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REPORT

ON THE

2020 DIAMOND DRILLING AND 2021 LiDAR AND AIRBORNE GEOPHYSICAL SURVEYS OF THE

BLAKELOCK PROPERTY

32E/05, 32E/12, 42H/08, and 42H/09

Blakelock and Hoblitzell Townships
Larder Lake Mining Division, Ontario, Canada

Latitude: ~ 49° 28’ 10” N
Longitude: ~ 80° 10’ 20” W

Prepared for:

LaSalle Exploration Corp.

Qualified Persons

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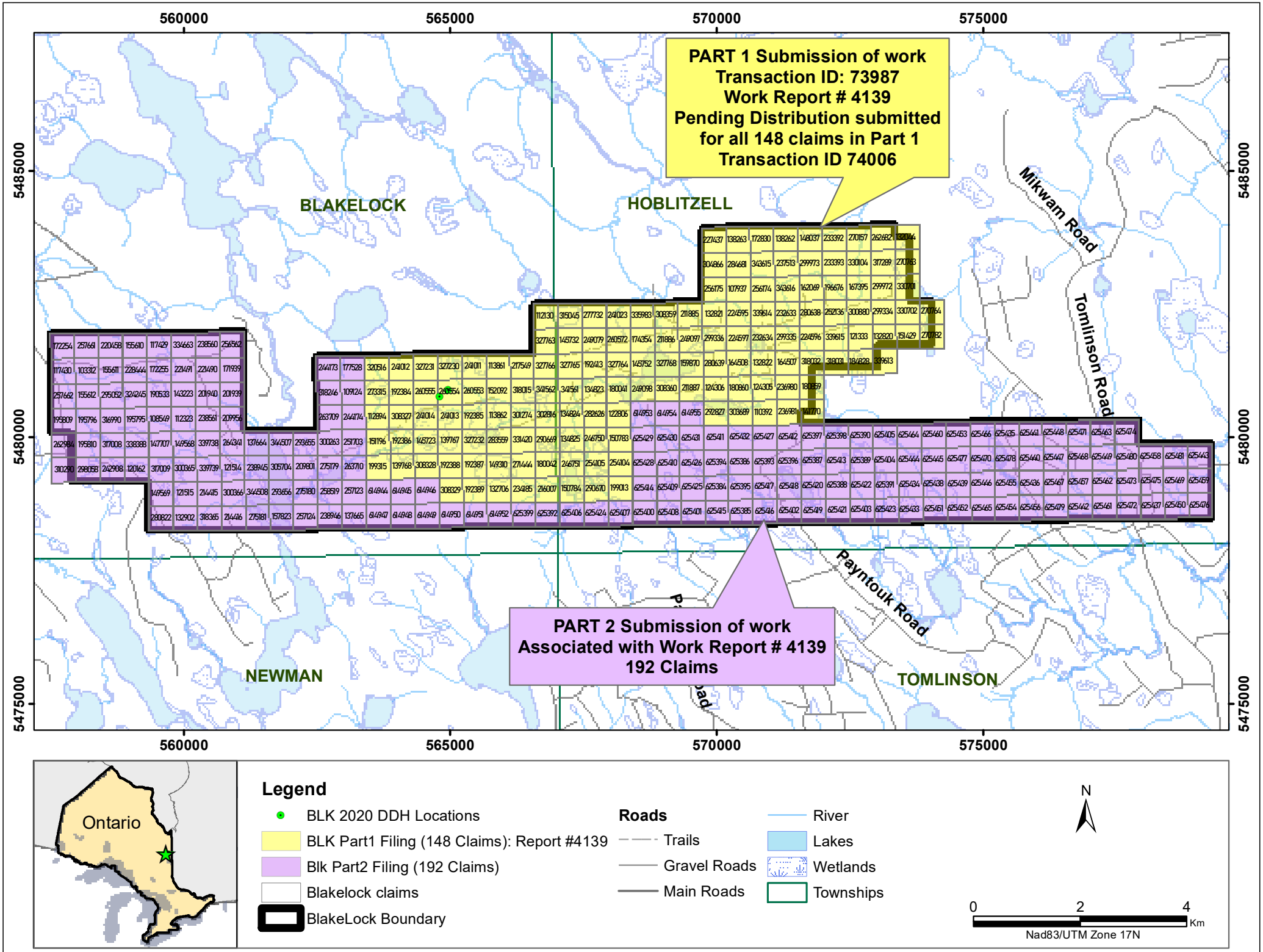
Company

GeoVector Management Inc.
.

Date: November 5, 2021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Transaction ID: 73987
Work Report # 4139
Pending Distribution submitted
for all 148 claims in Part 1
Transaction ID 74006
PART 2 Submission of work
Associated with Work Report # 4139
192 Claims
BLAKELOCK
HOBLITZELL
NEWMAN
TOMLINSON
Mikwam Road
Tomlinson Road
Payntouk Road
560000
565000
570000
575000
5485000
5480000
5475000
Ontario
Legend
BLK 2020 DDH Locations
BLK Part1 Filing (148 Claims): Report #4139
Blk Part2 Filing (192 Claims)
Blakelock claims
BlakeLock Boundary
Roads
Trails
Gravel Roads
Main Roads
River
Lakes
Wetlands
Townships
N
0
2
4
Km
Nad83/UTM Zone 17N

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1 SUMMARY

The Blakelock Property (the "Property") is located approximately 60 km northeast of the town of Cochrane and 140 km northeast of Timmins, Ontario within portions of Blakelock and Hoblitzell Townships. Cochrane has a modest population of ~5300 and offers basic services including hotels, garage/gas, groceries, as well as a hospital/health unit. Additionally, Cochrane is the base for helicopter contractors which offers flight services as well as camp outfitting. The town of Timmins, with approximately 42,000 inhabitants, has a rich history of mining and offers all services required to support exploration programs and mining project development.

The Property consists of 340 contiguous single mining claims totaling 6,977 hectares or 69.77 km^2. From Timmins, the Property can be accessed via highway 655 north for 75 km to the town of Driftwood and then east to Cochrane along Trans-Canada Highway 11 for 42 km. Setting out from Cochrane, travel east then north-northeast approximately 88 km along highway 652. Year-round access is provided by a graveled secondary road near the southeastern limit of the Property. The Taykwa Tagamou, the Wabun Tribal Council, the Mushkegowuk Council, the Metis First Nation of Ontario, and the Wahgoshig are the closest First Nation communities within a 200-kilometre radius of the Property.

The Property is located within the Larder Lake Mining Division of Ontario and represents an exploration target for both gold and base metals. The Property is 100% owned by LaSalle Exploration Corp. ("LaSalle") following an agreement with Lake Shore Gold Corp. ("Lake Shore") and its parent, Pan American Silver Corp. ("Pan American Silver"; formerly, Tahoe Resources Inc.) in 2018. To complete the acquisition, LaSalle must incur qualifying exploration expenditures on the Property of at least $400,000 on or before December 20, 2021. In addition, Pan American Silver retains a royalty equal to 2% of Net Smelter Returns ("NSR") on all minerals mined, produced, or otherwise recovered from the Blakelock Property, as defined in, and governed by the Net Smelter Returns Royalty Agreement dated December 14, 2018. The Company retains the right to buyback one half (1%) of the Pan American Silver NSR at any time in the future for a purchase price of $1,000,000. On June 29, 2021, Maverix Metals Inc. announced the acquisition of the Pan American Silver NSR. There are no other back-in rights, payments or other agreements and encumbrances related to the Property.

Geologically, the Property is located along the western extension of the deformation corridor known as the Casa Berardi Deformation Zone ("CBDZ") in the northwestern part of the Abitibi Greenstone Belt, Subprovince of the Superior Province within the Canadian Shield. This portion of the belt is composed of meta-volcanic and meta-sedimentary assemblages affected by greenschist facies metamorphism and is moderately deformed. The volcanic and sedimentary sequences are intruded by granitic rocks to the north and south (Ayer et. al, 2009). Owing to the sparse outcrop on the Property, lithological observations have largely been interpreted from diamond drill core ("DDH") and reverse circulation ("RC") chips.

Early exploration in area followed the discovery of gold at Nighthawk Lake (1907), Kirkland Lake (1911, Wright-Hargreaves discovery), and the Horne Mine (1920) discovered adjacent to the Cadillac-Larder Break in Quebec. In 1925, discovery of volcanogenic massive sulphide ("VMS") Cu-Zn mineralization at Normetal, Quebec, focused exploration efforts near the Property. Geophysical surveys, diamond drilling, and reverse circulation drilling have all been caried out by various companies between 1940-2010 on and around the Property.

During the period 2018-2020, previous work by LaSalle included data compilation, historical core review and the filing of a NI 43-101 technical report (Beauregard and Gaudreault, 2019).

In November and December 2020, LaSalle drilled two (2) oriented diamond drill holes on the Property within the Porphyry Creek area totaling 486 metres to test historically intersected mineralization as well as to attempt to better understand possible structural controls on mineralization. Forty-eight (48) oriented structural measurements were gathered from the two (2) holes as the blocky nature of the core limited the number measurements taken. From the limited measurements collected in both holes, the mean foliation / shear orientation has a trend of 260°, but dips steeply to the south in LXB20-001, and moderately to the north in LXB20-002 (moderate dip caused by an outlier measurement with a shallow dip). This east-northeast trend is consistent with the inferred trend of the Casa-Berardi Deformation Zone, which dips steeply to the north.

355 samples core samples were taken and sent for assay highlighted by:

LXB20-001: 0.24 g/t Au over 13.97m from 52.37-66.34m
LXB20-001: 1.48 g/t Au over 2m from 118-120; including 2.42 g/t over 1m from 119.0-120.0m
LXB20-002: 0.31 g/t Au over 2.85m from 184.15-187m
LXB20-002: 0.44 g/t Au over 11.14m from 256-267.14m; including 1.01 g/t over 1.22m from 260.98-262.2m

The results of the 2020 drill program indicate that the mineralized system at Porphyry Creek is still not fully understood. While the alteration, vein style, and sulphide species intersected is consistent with historic drill holes that returned elevated gold values, the results of the 2020 program did not duplicate them. Poor rock quality limited the ability to collect oriented structural measurements.

In May 2021, a LiDAR survey was flown over the property by LiDAR Services International Inc. totaling 170.2 line-km and covering an area of 70 km^2. Resultant products from this survey included LiDAR point clouds, Bare Earth and Full Feature gridded points, greyscale hillshades of Bare Earth and Full Feature surfaces, 10cm pixel resolution Ortho-mosaic colour digital imagery and an Index Map. LiDAR grids were further processed by GeoVector Management Inc. to generate a digital elevation model ("DEM") as well as accurate topographic contours using a Geographic System Information software package (QGis) with a view to aid in future diamond drill program planning and 3D modeling of historic and newly formed datasets.

Additionally in May 2021, A high-resolution helicopter-borne magnetic gradiometer survey was flown over the Property, by Precision GeoSurveys Inc. This survey was flown at 100 m line spacing at a heading of 000°/180° with tie lines being flown at 1000m spacing at a heading of 090°/270°. A total of 771 line-km was flown totalling 69.8 km^2. Several magnetic images were produced (See Section 8.2 for full list). A first pass interpretation of the Total Magnetic Intensity ("TMI") and Tilt Derivative ("TDR") images was conducted by GeoVector Management Inc. to highlight broad and discrete geological features on the Property. This exercise has highlighted prospective structural areas as well as possible geological contacts and will serve as a useful tool to aid in modeling the geology of the Property.

It is recommended that further work include:

- Historic drill hole database review including a section-by-section analysis and review of logged lithology both in the Porphyry Creek area and afield. Update geological maps and cross-sections as required. Generate 3D models of the Porphyry Creek area and the Property as a whole.
- Further processing and interpretation of geophysical data (AMAG and LiDAR) to highlight target areas of lithological contrasts (i.e., small intrusions and magnetic units with locally diminished magnetic signatures) and structural complexity (i.e., intersecting structures and pressure shadows), as well as areas along the extension of the CBDZ.
- Reverse circulation ("RC") drill hole program on the eastern portion of the Property to follow up on results from previous operators to test continuity and repeatability of elevated values as well as to test the sedimentary package on the southern portion of the Property. This work will help refine existing target areas and define new target areas on the Property.
- Diamond drilling to test the highest priority target areas defined by the interpretation of the geophysical data and results from the RC drilling. It is recommended that oriented core be supplemented with optical televiewer data in areas with poor ground conditions.

The authors consulted and reviewed the public documents filed at the Ontario Ministry of Northern Development (MNDM) and information provided by LaSalle. Significant sections of this report were taken or modified from work reports prepared by previous property owners, as well as publicly filed documents. These historical reports appear to have been authored by qualified professionals, and the information prepared according to standards acceptable to the exploration community at the time.

2 INTRODUCTION

The Blakelock Property (the "Property") consists of 340 single cell mining claims located in NTS sheets 32E/05, 32E/12, 42H/08, and 42H/09 in the Larder Lake Mining Division in northern Ontario. Since entering into an agreement with Lake Shore Gold Corp and its parent Pan American Silver Corp. (formerly Tahoe Resources Inc.) in 2018 by LaSalle Exploration Corp. ("LaSalle"), the Property has seen limited work save for a field visit as part of a due diligence in connection with the NI 43-101 filed in 2019 (Beauregard and Gaudreault, 2019) as well as a historical drill core review. LaSalle has continued to compile data and documents from the public domain filed at the Ministry of Northern Development and Mines (MNDM) as well as data provided by previous owners. This information was used in the writing of this report.

The purpose of this report is to document the 2020 late-fall drill program which comprises two (2) oriented drill holes totalling 486 metres as well as airborne surveys (LiDAR and magnetic gradiometer) conducted in the spring of 2021. Alan Sexton and Adam Findley both worked on the Property in the late-fall of 2020.

2.1 Coordinate system

The coordinate system used in all figures and tables are in UTM NAD 83, Zone 17 and the units used are in International System of Units (SI units).

2.2 List of Abbreviations

Table 1 – List of Abbreviations

Abbreviation or Symbol	Unit or Term
Au	gold
Ag	silver
cm	centimetre
Cu	copper
E	east
EM	electromagnetic
FA/AA	Fire Assay/Atomic Absorption
g/t	gram per metric ton
ICP-AES	Inductively Coupled Plasma – Atomic Emission Spectrometry
kg	kilogram
km	kilometres
km/h	kilometres per hour
LiDAR	Light Detection and Ranging
m	metre
Ma	Million years
mm	millimetre
Moz	million ounces
N	north
NI 43-101	National Instrument 43-101
QA/QC	Quality Assurance/Quality Control
Zn	zinc
°C	degree Celsius

3 RELIANCE ON OTHER EXPERTS

The authors reviewed all available technical documentation relevant to the Blakelock Property and make recommendations based on the information available as well as using input from other geologists who have worked on the Property.

The authors also relied on information provided in historical reports which appear to have been authored by qualified professionals, and the information prepared according to standards acceptable to the exploration community at the time. Significant sections of this report were taken or modified from these works. The authors have no known reason to believe that any of the information used to prepare the report herein is invalid or contains misrepresentations. The authors assume that the reports and other data listed in the "References" section (Section 12) are substantially accurate and complete.

4 PROPERTY DESCRIPTION AND LOCATION

4.1 Property Location

The Blakelock Property (the "Property") is in Ontario within portions of Blakelock and Hoblitzell Townships, approximately 60 km northeast of Cochrane and 140 km northeast of Timmins, Ontario, and is approximately 60 km west of the Casa Berardi Gold Mine located in northwestern Quebec. The central part of the property is approximately located at UTM (North American Datum (NAD) 83) Zone 17 coordinates 566,500m E and 5,480,500m N (Figures 1).

4.2 Mineral Tenure

The Blakelock Property consists of 340 single cell mining claims and 16 boundary cell claims for a total surface area of 6,977 hectares or 69.77 km^2 (Figure 2). All the claims are active and 100% registered to LaSalle Exploration Corp. Claim details are provided in Appendix A.

4.3 Property Description, Ownership and Royalty

The Property is located within the Larder Lake Mining Division of Ontario and represents an exploration target for both gold and base metals.

On October 25, 2018, LaSalle entered into an agreement with Lake Shore Gold Corp. ("Lake Shore") and its parent, Pan American Silver Corp. ("Pan American Silver"; formerly, Tahoe Resources Inc.), wherein the Company acquired 100% of its Blakelock Property. To complete the acquisition, LaSalle must incur qualifying Exploration Expenditures on the Property of at least $400,000 on or before December 20, 2021. In addition, Pan American Silver retains a royalty equal to 2% of Net Smelter Returns ("NSR") on all minerals mined, produced, or otherwise recovered from the Blakelock Property, as defined in, and governed by the Net Smelter Returns Royalty Agreement dated December 14, 2018. The Company retains the right to buyback one half (1%) of the Pan American Silver NSR at any time in the future for a purchase price of $1,000,000. On June 29, 2021, Maverix Metals Inc. announced the acquisition of the Pan American Silver NSR.

There are no other back-in rights, payments or other agreements and encumbrances related to the Property.

4.4 Property Claim Status

After the claim to cell conversion process completed by the Ontario government in 2018, the original seventeen (17) Legacy claims converted to 230 cell claims (Tenure ID), covering an area of 3,780 hectares. 110 claims were added via staking in 2020 and 2021 which increased the Property to 340 claims. All claims are currently active (Appendix A) and have expiry dates of November 08, and 28, 2021. The status of the claims was validated at the website of the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry. There are no surface rights associated with the land holdings.

4.5 Permits and Authorization

The Ontario Mining Act requires exploration plans and permits for exploration to be undertaken on Crown Lands. Once the application has been received, the MNDM circulates the exploration plan and permit to the Environmental Registry and to First Nation communities whose traditional lands may be impacted by the work. The processing periods for exploration plans is 30 days, and 50 days for exploration permits. Consultations with the affected First Nation communities identified by the MNDM are recommended. No exploration plan or permit is required to complete

exploration work on patented mining claims, however, plans and permits are required for completing work on unpatented and leased mining claims.

No right or authorization is required for access to the Property. The Taykwa Tagamou, the Wabun Tribal Council, the Mushkegowuk Council, the Metis First Nation of Ontario, and the Wahgoshig are the closest First Nation communities within a 200-kilometre radius of the Property.

4.5.1 Exploration Plans and Permits Required under the Ontario Mining Act

The active permits on the Property include plan PL-20-000007 which is good for activities such as geophysical surveys, and line cutting (<1.5m width) and expires on March 12, 2022. Additionally, LaSalle was granted a permit (PR-20-000273) for mechanized drilling (assembled weight >150kg) on November 23, 2020. Two holes were drilled in 2020 under this permit which is valid until November 22, 2023.

4.6 Environmental Considerations

The authors are unaware of any environmental liabilities associated with the Property. However, the authors have not conducted a thorough inspection of the Property.

Figure 1 General Location of the Blakelock Property

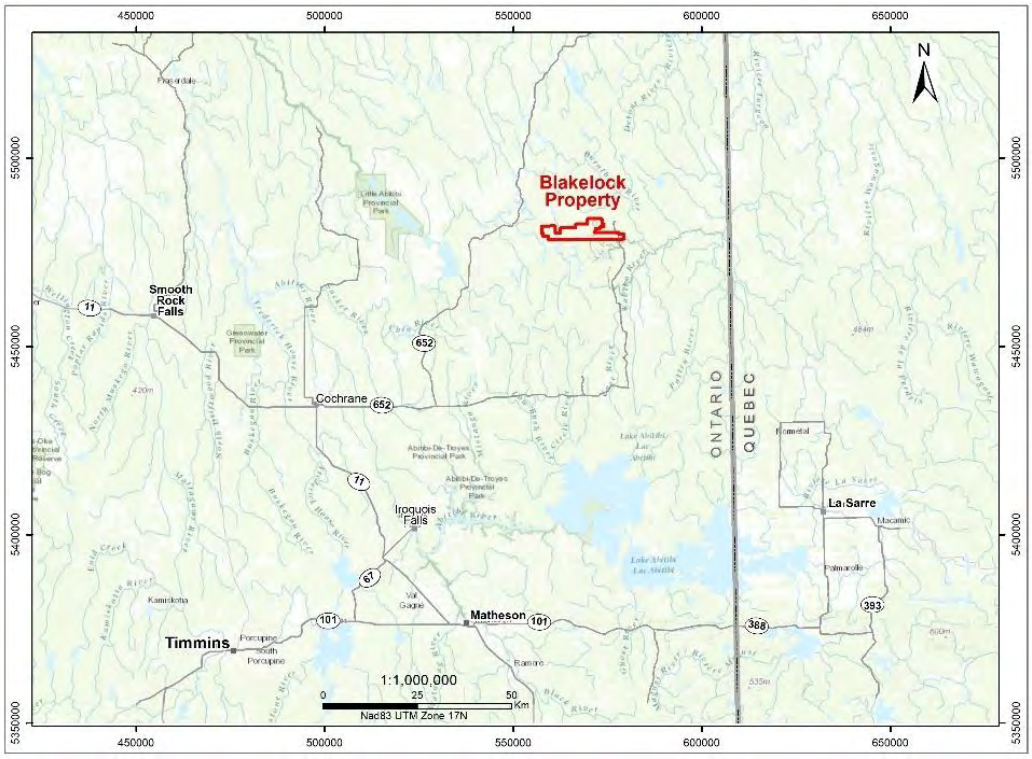
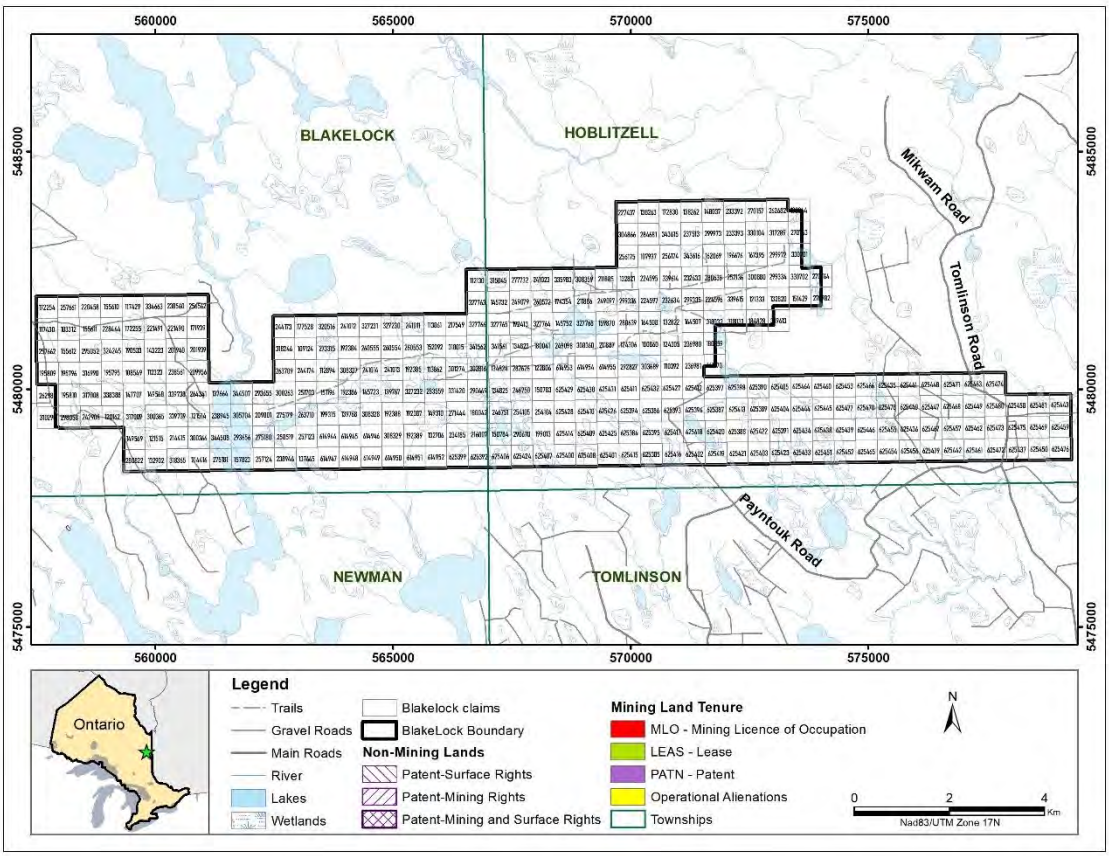


Figure 2 Property location and mineral claims of the Blakelock Property



5 ACCESSIBILITY, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Accessibility

From Timmins, the Property can be accessed via highway 655 north for 75 km to the town of Driftwood and then east to Cochrane along Trans-Canada Highway 11 for 42 km. Setting out from Cochrane, travel east then north-northeast approximately 88 km along highway 652. Year-round access is provided by a graveled secondary road near the southeastern limit of the Property (Figure 3). Limited truck access is available along some logging roads (gravel, sand, and mud tracks) that cross the western part of the Property. For most of the Property, a helicopter is required to move both personnel and equipment.

5.2 Local Resources and Infrastructure

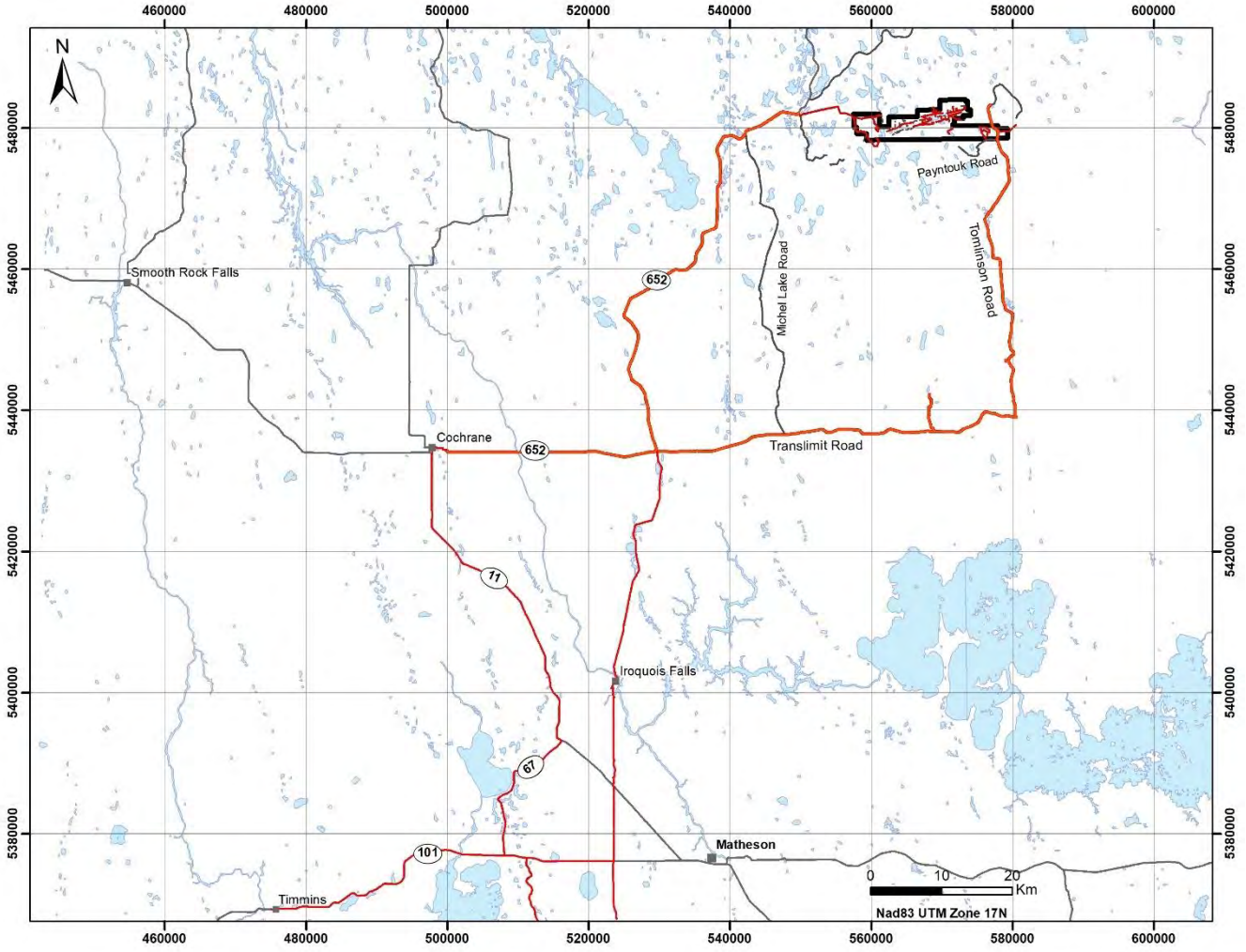
The Abitibi region of northeastern Ontario has an active economy based upon mining, exploration, and forestry products. The region has a long, continuous gold mining history dating back to the gold discoveries in the Timmins, Matachewan, and Kirkland Lake areas in the early 1900's (See Section 6). As a result, a large workforce skilled in mining and exploration is locally available. All related service industries are also locally available. Cochrane has a modest population of ~5,300 and offers basic services including hotels, garage/gas, groceries, as well as a hospital/health unit. Additionally, Cochrane is the base for helicopter contractors which offers flight services as well as camp outfitting. The town of Timmins, with approximately 42,000 inhabitants, has a rich history of mining and offers all services required to support exploration programs and mining development projects.

No surface rights exist over the Property claims with ownership of the land being deemed as "Crown Land". The Property is suitable for the construction of potential tailings storage areas, potential waste disposal areas and potential processing plant sites. However, an environmental impact assessment will have to be carried out in advance of this work.

5.3 Climate

The region has a cool continental type of climate with long cold winters and cool, variable summers. Winter temperatures in the -20°C to -40°C range are common. Summer temperatures average in the +10°C to +20°C range and may reach +30°C. Average winter snow accumulation is 2 to 3 metres. The best operating season for the basic exploration work (prospecting, mapping, line cutting, geophysical and geochemical surveys and stripping) is approximately six (6) months (mid-May to October). Ideal winter drilling conditions last from early January to the end of March.

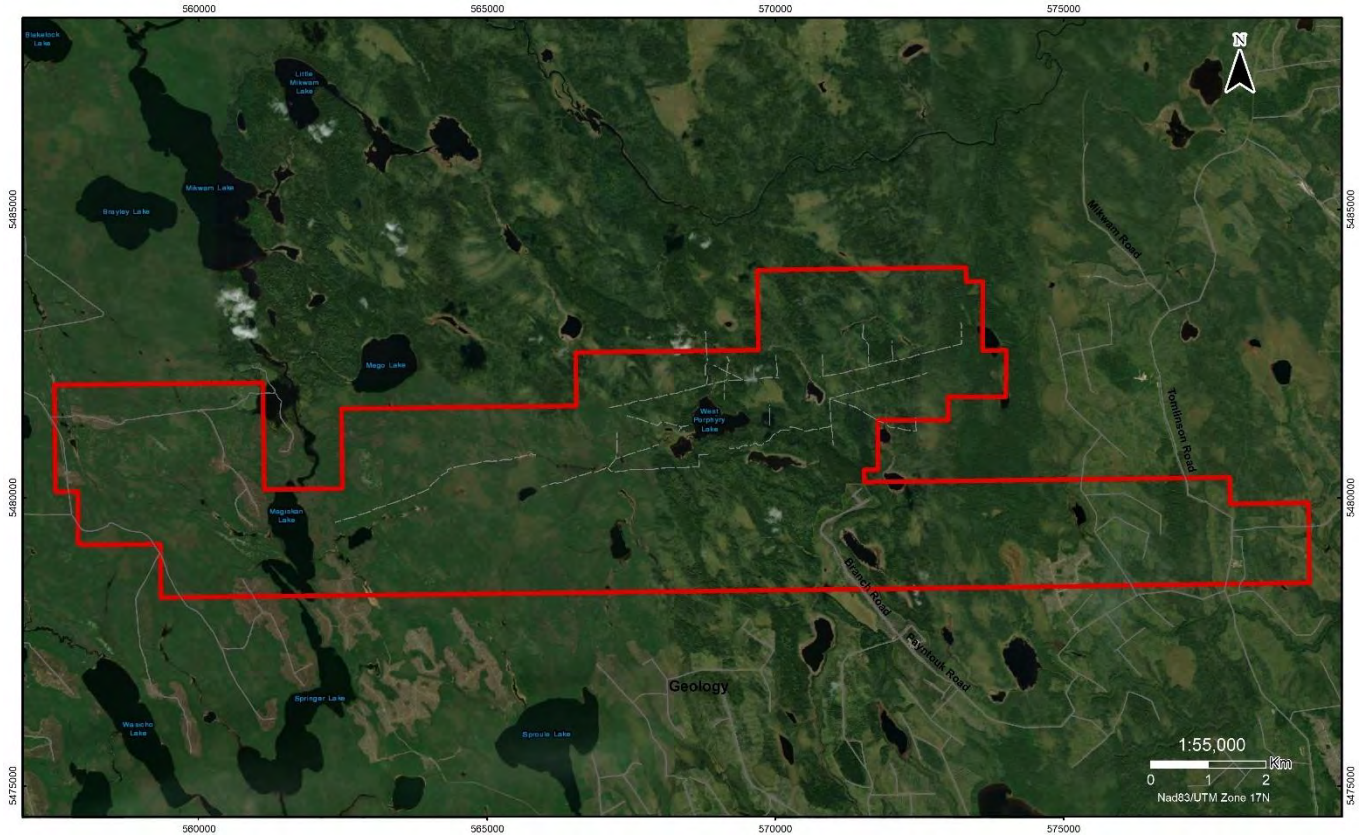
Figure 3 Accessibility of the Blakelock Property



5.4 **Physiography**

The Property is forest covered by secondary growth (Figure 4). Sand and gravel resources are somewhat limited – the esker sands are generally very fine-grained above a periglacial lake-washed boulder-strewn till. The area is quite flat and is strewn with small lakes and swamps – a flatness caused by an underlying "clay belt" (locally known as "gumbo clay"). The clay belt represents the bottom of a late ice age periglacial lake - Lake Ojibway (Boissonneau, 1966; Barnett, 1992) deposited during the waning phases of the Wisconsin glaciation. Areas showing glacial outwash fans, eskers, and drumlinoid sandy knobs (often covered by "caribou moss") give relief to this generally unrelieved flatness. Drumlins were formed on top of Periglacial Lake clays during the Cochrane ice retreat. Ground moraine consisting of clay, boulder clay, sand and gravel can be seen along lakeshores. Outcrops are exceedingly rare. Depending on yearly snow depth, spring-runoff causes shallow flooding of the landscape. Broad shallow ephemeral drainage ditches can be choked with scrub and trees. The Property's height above sea level is approximately 300 metres.

Figure 4 Topography of the Blakelock Property



6 PREVIOUS WORK

The Property is located within the Larder Lake Mining Division, Ontario. This Mining Division was created following the discovery of gold in Nighthawk Lake in 1907 (Porcupine Mining District, east of Timmins), at Kirkland Lake in 1911 (Wright-Hargreaves discovery), and after the discovery of gold further east in Quebec adjacent to the Cadillac-Malartic Break (Horne Mine in 1920). In the Abitibi Greenstone Belt, prospectors combed rivers and lakeshores with canoes hunting for further gold and base metal showings, but the extensive drift-covered ridges and valleys left by the Pleistocene Laurentide glacier meant that they could not explore the area in any real detail. The extremely immature surficial cover of the glacial landscape meant that there were no alluvial gold trains in creek bottoms extending from hard-rock mineralization – meaning, that without outcropping mineralization, ore deposits of all kinds were very easily missed. In the Northern Abitibi Greenstone Belt, the lack of substantial outcroppings and the area's general remoteness made early canoe prospecting a rather difficult proposition.

6.1 Historical work

- **1925**: The discovery of volcanogenic massive sulphide ("VMS") Cu-Zn mineralization ~70 km southeast of Blakelock at Normetal, Quebec (10,109,664 tonnes at 0.78% Cu, 5.4% Zn, 65 g/t Ag, 0.9 g/t Au) focused the first prospecting effort in this part of Canada (Beauregard and Gaudreault, 2019).
- **1940**: Hollinger Mines reported outcrop grab samples in the vicinity of West Porphyry Lake with assays recorded as 4.80 and 6.17 g/t Au – the first claims to be staked in the region (Wilson, 1979).
- **1959**: Conwest Exploration Ltd. drilled two (2) holes for 228.6 m in Blakelock Township on airborne electromagnetic ("AEM") conductors that turned out to be graphite as well as pyrite and pyrrhotite-rich metasediments.No significant values were obtained from the limited sampling (Ref.: Assessment Files # 42H09SE0027, 0030 and 0031).
- **1967**: Texas Gulf is reported to have drilled nine (9) holes for 1,238 m in Tweed and Blakelock Townships for VMS targets. One hole near the western margin of the current Blakelock claim group cut thin sulphide-rich layers (pyrrhotite and pyrite) in metasediments with no significant base metal results. Minor sulphides were reported in two holes SW of West Porphyry Lake (Ref.: Assessment Files #42H08NE0030 and 42H09SE0037).
- **1976**: Hudson Bay Mining and Smelting conducted a HLEM survey in Hoblitzell Township, but no follow-up drilling was reported (Ref.: Assessment Files # 42H09SE5008 to 5014, 42H09SE0025, 0026, 0028 and 0029)
- **1985**: Esso flew an airborne magnetic-EM-resistivity survey that was followed up by a 50-hole reverse-circulation ("RC") drilling program. Several anomalous gold intersections were found in sandy gravels Ref.: Assessment File # 42H09SE0006)
- **1986**: Esso continued its airborne surveys farther to the west (Ref.: Assessment File # 42H09SE0009).
- **1986**: Deerfoot Resources Inc. carried out an exploration program in the west part of the actual Property. Geophysical surveys (Mag, EM, and IP) and geological mapping with three (3) drill holes (DF-1-86 to DF-3-86) totalling 249.6 metres were completed. A value of 615 ppb Au over 0.61 m was obtained in DDH # DF-3-86 within altered basaltic tuff with 10% pyrite and traces of pyrrhotite (Ref.: Assessment Files # 42H09SE0015, 0016, 0022 and 0024).
- **1987**: Esso cut a large grid and conducted extensive IP, ground magnetometre and VLF-EM surveys. This was then followed by an 82-hole RC drilling program as well as a 16-hole diamond drilling program for 2,104m. Gold-in-overburden anomalies were reported (Ref.: Assessment File # 42H09SE0014).
- **1988**: Esso carried out further gridding, ground geophysical surveys and bored another 11 diamond drill holes for a total of 1,932 m. The Esso exploration programs listed above resulted in 20 diamond drill holes on what is now LaSalle's Blakelock Property. This drill program encountered a significant anomalous zone of gold-silver mineralization associated with an intensely sericitized, quartz-veined and sulphide-mineralized

porphyry (Drill holes: HN88-22, 23, 24, 28, 31 and 43) Mineralization was reported to be associated with mylonitic shear zones and quartz veins with up to 5% sulphides. Sulphide species described in the drill logs including pyrite, sphalerite, galena, molybdenite, chalcopyrite, as well as hessite, native bismuth and native gold. (Ref.: Assessment File # 42H08NE0005)

- 1**989-90**: A subsidiary of INCO Ltd. (INCO Exploration and Technical Services Ltd.) acquired property on their own behalf and under joint venture in areas now partly covered by LaSalle's Blakelock Property and drilled six (6) diamond drill holes for 924 m in Blakelock and Hoblitzell Townships (Hannila, 1990). No assays are publicly disclosed on the assessment file drill logs reported to the ministry – a legal practice at that time (Ref.: Assessment Files # 42H08NE8070 and 9312).
- **1990:** Cogema completed two diamond drill holes in the NE corner of the Blakelock Property. The most significant gold value returned was 0.021 g/t Au, but the sampling was not systematic (Ref.: Assessment Files # 32E12SW0034).
- **2004**: Lake Shore Gold completed 27 kilometres of line cutting followed a detailed total field magnetic survey. This survey was realized by Exsics Exploration Ltd. from Timmins, Ontario. The magnetic survey outlined a magnetic high unit that generally matches the intrusive that is thought to crosscut the mafic unit. The survey also outlined several cross structures of which one appears to be a possible fault striking northeast to southwest across the eastern section of the grid. The other cross structure is a major unit striking north to south across the central section of the grid which has also distorted the magnetic survey (Ref.: Assessment File No. 20001888).
- **2006**: Lake Shore Gold completed an Induced Polarization (IP) survey across ten (10) grid lines in the central part of the Property (Porphyry Creek Area). This survey was executed by Exsics Exploration Ltd. from Timmins, Ontario. The IP survey results suggest that there are at least 3 conductive horizons on each of the two groups of survey lines that were covered by the survey (Assessment File No. 20003226).
- **2006**: Lake Shore Gold acquired the Property and conducted exploration and drilling programs. Eight (8) DDHs totalling 2,209.9 metres were completed to follow-up historic gold intersections by Esso (Ref.: Assessment File # 20000001873).
- **2006**: Lake Shore Gold contracted Terraquest Ltd. to fly a detailed 100 m-spaced airborne Magnetic and VLF-EM survey over the Blakelock claim group. A magnetic interpretation of the airborne data was completed for Lake Shore by Hadyn R. Butler (internal Lake Shore consultant's report).
- **2008**: Lake Shore Gold completed a drill program of seven (7) DDHs totalling 2,826.5 metres. The primary goal of this program was to further define the known gold bearing structures within the Porphyry Creek area of the Property (Ref.: Assessment File: 20000005454).
- **2010:** Lake Shore Gold completed a helicopter-supported drill program comprised of six (6) DDHs for a total of 1,747 metres (Ref.: Assessment File # 20000006133). The program was designed for one (1) hole to intercept Esso mineralization and the remainder five (5) holes to test geophysical anomalies. The drilling program confirmed all its targets. Four (4) out of six (6) holes intersected porphyry intrusive phases with some significant auriferous values: BL-10-28 has revealed 28.41 g/t Au over 2.4 m; BL-10-29 with 2.67 g/t Au over 1.0 m; BL- 10-30 with 1.28 g/t Au over 0.7 m; and BL-10-32 with 0.132 g/t Au, 26.03 g/t Ag over 1.7 m.
- **2012**: Lake Shore Gold completed a Mobile Metal Ion (MMI) sampling program on the Property. A total of 641 samples were collected in the central part of the Property. The results from six sampling transects suggest possible base metal and precious metal anomalies are present on one line. Line 564,500 is marked by a multi-sample low- to high-contrast base metal anomaly consisting of Cu and Pb. This anomaly is developed over 1-2 sample lines and is likely open to the east. A second anomaly is possible with a three-sample Zn response noted from the north end of line 564,500. This is a single line anomaly and may also be open to the east (Ref.: Assessment File No. 20010961).

6.2 **Work done by LaSalle Exploration Corp.**

- In 2018, LaSalle completed a visit to Lake Shore Gold's core yard to make an inventory of drill core from the Property and review key mineralized intersections.
- In 2019, LaSalle filed a NI 43-101 technical report (Beauregard and Gaudreault, 2019) on the Blakelock Property.

7 GEOLOGICAL SETTING

The Blakelock Property (the "Property") is located within the Abitibi Greenstone Belt. The Abitibi Greenstone Belt (Figure 5; modified from Ayer et al., 2013) comprises east-trending synclines containing volcanic rocks and intervening domes cored by synvolcanic and/or syntectonic plutonic rocks (gabbro-diorite, tonalite and granite), separated by east-trending turbiditic wacke bands (MERQ-OGS, 1984; Ayer et al., 2002a; Daigneault et al., 2004; Goutier and Melançon, 2007). The volcanic and sedimentary strata dip near vertically and are separated by abrupt, variably dipping east-trending faults. Some of these faults (e.g., the Porcupine-Destor Fault) display evidence of overprinting deformation events, including early thrusting and later strike-slip and extension events (Goutier, 1997; Benn and Peschler, 2005; Bateman et al., 2008). Two ages of unconformable successor basins are observed: widely distributed fine-grained clastic rocks in early Porcupine-style basins, followed by Timiskaming-style basins composed of coarser clastic sediments and minor volcanic rocks, largely proximal to major strike-slip faults such as the Porcupine- Destor and Larder Lake–Cadillac fault zones and other similar regional faults in the northern Abitibi Greenstone Belt (Ayer et al., 2002a; Goutier and Melançon, 2007).

The Abitibi Greenstone Belt is intruded by numerous late-tectonic plutons composed mainly of syenite, gabbro and granite, with lesser lamprophyre and carbonatite dykes. The metamorphic grade in the Abitibi Greenstone Belt varies generally from greenschist to subgreenschist facies (Jolly, 1978; Powell et al., 1993; Dimroth et al., 1983; Benn et al., 1994), except in the vicinity of most plutons where the metamorphic grade corresponds mainly to the amphibolite facies (Jolly, 1978).

The geographic limit between the northern and southern parts of the Abitibi Greenstone Belt has no tectonic significance but is similar to the limits between the internal and external zones of Dimroth et al. (1982) and those between the Central Granite- Gneiss and Southern Volcanic zones of Ludden et al. (1986). The boundary between the northern and southern parts passes south of the greywackes of the Chicobi and Scapa groups, with a maximum depositional age of 2698.8 ± 2.4 Ma (Ayer et al., 1998, 2002b).

The Abitibi Subprovince is bounded to the south by the Larder Lake– Cadillac Fault Zone, a major crustal structure that separates the Abitibi and Pontiac Subprovinces (Chown et al., 1992; Mueller et al., 1996; Daigneault et al., 2002, Thurston et al., 2008).

The Abitibi Subprovince is bounded to the north by the Opatica Subprovince, a complex plutonic-gneiss belt formed between 2800 and 2702 Ma (Sawyer and Benn, 1993; Davis et al. 1995). It is mainly composed of strongly deformed and locally migmatized tonalitic gneisses and granitoid rocks (Davis et al., 1995).

7.1 Regional Geology

The Property is located along the western extension of the deformation corridor known as the Casa Berardi Deformation Zone ("CBDZ") in the northwestern part of the Abitibi Greenstone Belt, Subprovince of the Superior Province within the Canadian Shield. This portion of the Belt is composed of meta-volcanic and meta-sedimentary assemblages displaying greenschist facies metamorphism and moderate deformation (Figure 6).

The Pleistocene cover of unconsolidated clay, sand, and gravel is thick and extensive which as hampered previous exploration efforts; bedrock outcrops are few. Bedrock within the area consists of metavolcanics, metasediments, and ultramafic, mafic, and felsic intrusive rocks of Early Precambrian age which are intruded by Early to Late Precambrian diabase dikes (Wilson, 1979). The supracrustal rocks have been altered under conditions of low-grade metamorphism (Winkler 1976). Mineral assemblages in mafic metavolcanics comprise mainly plagioclase, actinolite, and chlorite. Occasional amphibolite containing plagioclase, hornblende, and chlorite suggest, as does the presence of almandine garnet in some metasediments, that at least locally, the higher temperature part of low-grade metamorphism was reached.

The metavolcanics west of Twopeak Lake are dominantly massive and pillowed mafic flows containing minor feldspar porphyritic units (Figure 6). A minor amount of pyroclastic rock was found 3900 m southwest of Twopeak

Lake. The metavolcanics to the southeast of Magiskan Lake are mafic massive flows; those to the northwest are dominantly mafic pyroclastic rocks above minor massive and pillowed flows. Pyroclastic rocks include thick- to thin-bedded tuff, lapilli-tuff, and lapillistone, and locally felsic to intermediate metavolcanics (Figure 6). Chemical analyses show that the metavolcanics range from calc alkaline, tholeiitic basalt, and andesite. The biotite-rich metasediments at the top of the stratigraphic section are composed of micaceous sandstone, and schist, with some iron formation. The metasediments interbedded with or lying below the mafic metavolcanics are chloritic and comprise conglomerate, sandstone, mudstone, and minor amounts of iron formation. All the metasediments show rhythmic patterns of thick-bedded coarse-grained sedimentary rocks and alternating thin-bedded coarse- and fine-grained sedimentary rocks which suggest that turbidite sedimentation, typical of Early Precambrian (Archean) greenstone belts, occurred. Chemical and clastic sedimentary rocks are present; these two types of rock are commonly intermixed (Wilson, 1979).

Figure 5 Geological Map of the Abitibi Greenstone Belt

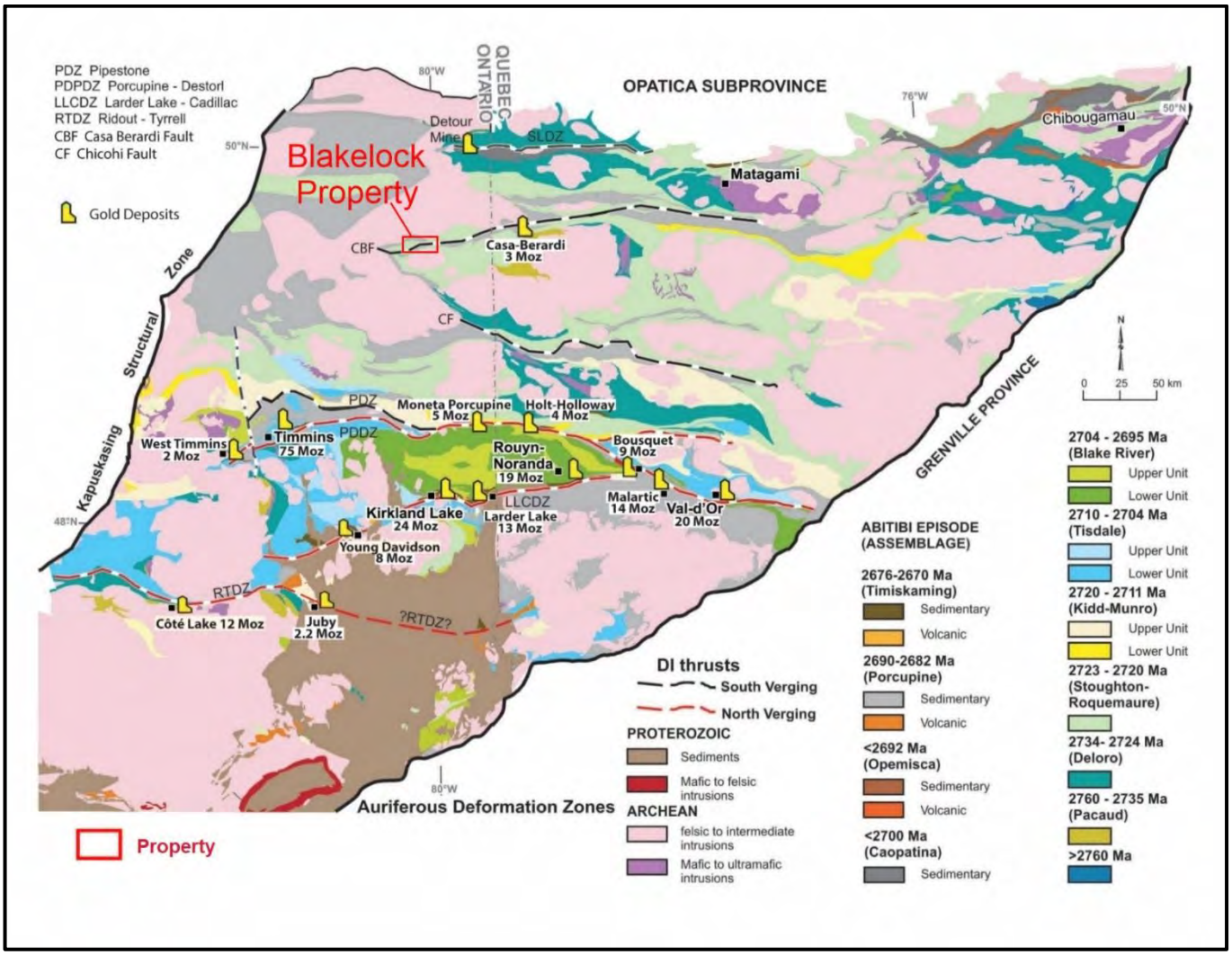
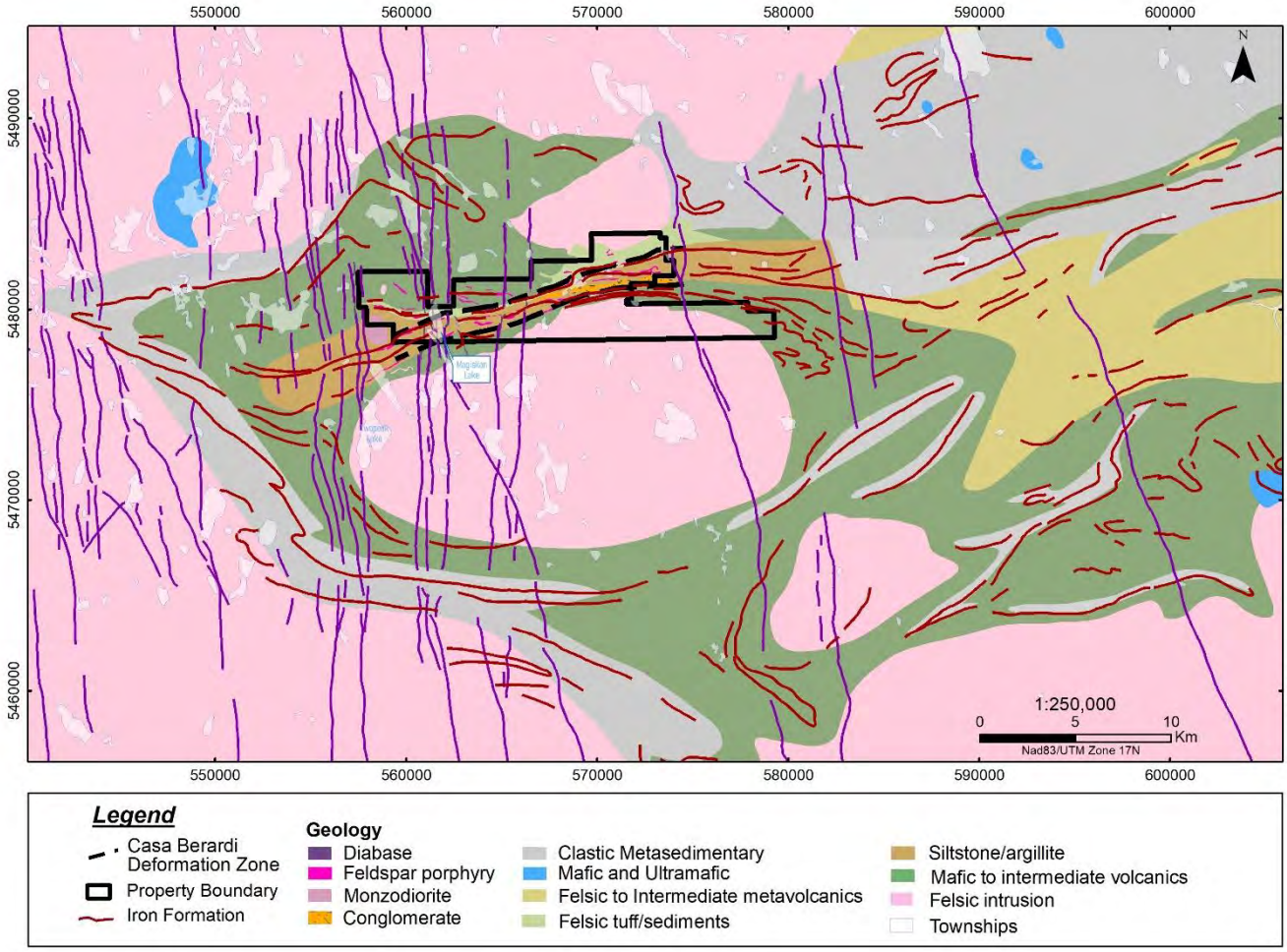


Figure 6 Regional Geology of the Blakelock Property



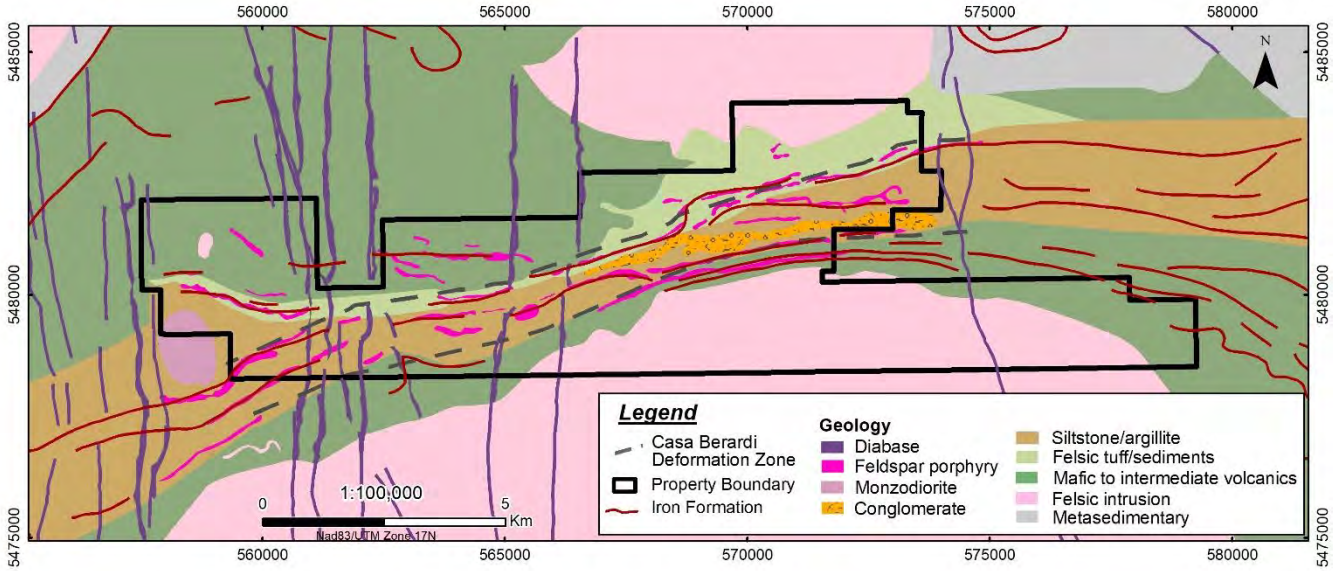
7.2 Property Geology

The Property is located along the western extension of the deformation corridor known as the Casa Berardi Deformation Zone ("CBDZ"), which host Hecla's Casa Berardi Gold Mine (>3.5 Moz) in Quebec some 60 km along strike to the east. Gold mineralization occurs in quartz veins within graphitic pelite and greywacke spatially associated with iron formation interpreted as submarine hydrothermal vent (Dubé et al. 2007).

The volcanic and sedimentary sequences on the Property are intruded by granitic rocks to the north and south (Ayer et al., 2009; Figure 7). Volcanic rocks vary from mafic to intermediate, massive to pillowed units with minor amounts of intermediate- felsic volcanic units observed as tuffs or breccias (Wilson, 1979). Mafic to intermediate dykes locally cut the volcano-sedimentary sequence of the Property. All rocks have been cut by late diabase dykes (Figure 7). All the rocks are described as steeply dipping to the north at 70 degrees and are similar to the mine sequence at Casa Berardi.

The presence of metasedimentary rocks, mafic metavolcanic units, granitic intrusions, localized carbonate alteration, quartz veins and structural features (faults, shears, and folds) together form a favourable geological context for auriferous and base metal mineralization on the Property. The combination of hydrothermal events, metamorphism, and deformation, represent important processes for gold concentration and the formation of world-class gold deposits in greenstone belts and sedimentary rocks in general (e.g., Dubé et al. 2007; Large et al., 2007).

Figure 7 Geological Map of the Blakelock Property



7.3 **Mineralization**

7.3.1 Deposit Types

Immediate targets of interest on the Blakelock Property are of mesothermal lode gold style (initially defined by Lindgren, 1933; also known as quartz-carbonate vein gold deposits, Wilton, 1997a, 1997b, Dubé and Gosselin, 2007). Large (+1 million ounces) Archean gold deposits may occur in clusters (e.g., around Timmins, Ontario), or as isolated zones (e.g., Hemlo and Musselwhite, Ontario). Although gold deposits may be found in granitoid batholiths (e.g., Renabie, Ontario), most sizeable deposits occur in Greenstone belts.

Approximately 60 km to the east of the Property (Figure 8), the Casa Berardi East and West Gold Mines (owned and operated by Hecla Mining) are located about 5 km apart within the Casa Berardi Deformation Zone ("CBDZ"). At Casa Berardi the gold mineralization is concentrated on the south side of the Casa Berardi (brittle-ductile) fault as complex multi-phase quartz veins and stockworks with sulphides as disseminated pyrite and arsenopyrite Graphite is common along the fault. The East ore body has a strike length of 400 m at surface decreasing to 200 m strike length at 800 m depth. Gold mineralized zones to the north of the Casa Berardi fault appear to be proximal to basalt-sediment contacts (Hecla Mining website: https://www.hecla-mining.com/casa-berardi/).

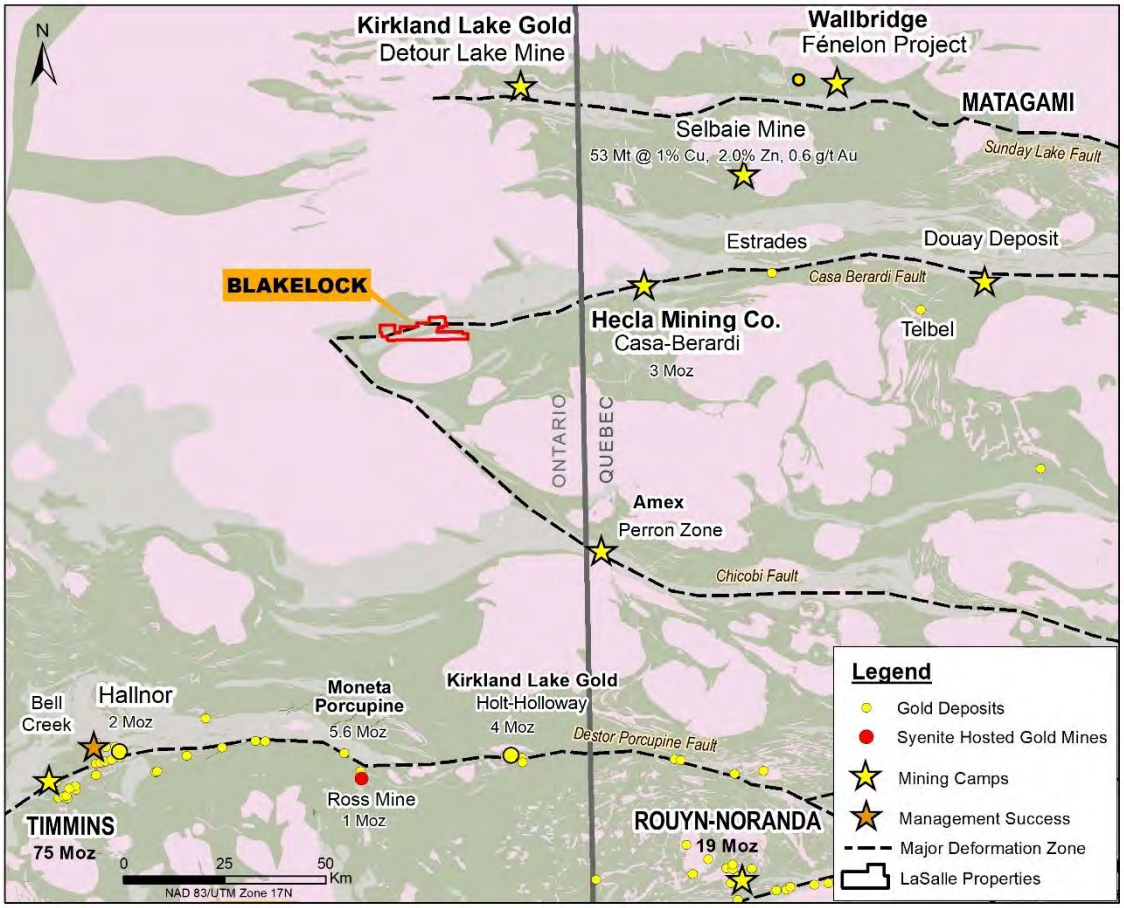
Approximately 85 km further east of the Property (Figure 8), the Douay deposits owned by Maple Gold Mines consist of eight (8) zones. The Douay property consists of a northern assemblage of mafic and felsic pyroclastic and sedimentary rocks, a central assemblage of basalts and gabbros with some felsic rocks that are intruded by the Douay alkaline intrusive complex, and a southern assemblage comprised of basalts with silicious-chemical sediments. Gold mineralization is found in relation to the Douay syenite complex.

At the abandoned Joutel town site, approximately 16 km west-northwest of the Douay deposits, the past producers Eagle Gold Mine and adjoining Telbel Gold Mine of Agnico Eagle Gold Mines occur on the southwest flank of the Harricana River turbidite basin, a unit juxtaposed with the Joutel felsic volcanic complex dated at 2,728 Ma. The Harricana Deformation Zone ("HDZ") provides the contact between these two assemblages. To the west-northwest, the HDZ merges with and/or becomes parallel to the CBDZ. Discovered in 1962, the Eagle Gold Mine was drilled as a volcanogenic massive sulphide ("VMS") target based on coincident airborne EM and magnetic anomalies. Gold mineralization occurs as a 2 to 5 m thick pyritic zone between a carbonated felsic tuff, argillite, and chemical sediment package (Joutel felsic volcanic complex) to the southwest, and carbonated argillites (Harricana River complex) to the northeast. Pyrite content is ~20%, as a disseminated and cataclastic sulphide. Fine free gold appears to be associated directly with the pyrite (Beauregard and Gaudreault, 2019).

Some 60 km north of the Property (Figure 8), the Detour greenstone belt (Jackson and Fyon, 1991) is bounded on the north by gneissic and plutonic rocks of the Opatica Subprovince and on the west by the Hopper Lake granitic complex. The Detour Lake Gold Mine occurs on the north limb of an antiform. Underlying units consist of massive and pillowed tholeiitic volcanics and minor komatiites, which are intruded by gabbro, diorite to quartz diorite stocks, as dykes and sills. The whole package being cut by the Sunday Lake Deformation Zone, which is a major, east-west striking structural high strain zone that has been traced over 30 km. The gold mineralization at the deposit is found in the hanging wall to the Sunday Lake Deformation Zone as early, sulphide-poor quartz veins and stockworks overprinted by a sulphide-rich fracture filling in deformed veins, breccias and pillow selvages.

From 1983 to 1997, the old underground Detour Mine was operated by Placer Dome. Detour Gold acquired the Detour Mine Property in January 2007, completed a feasibility study in June 2010 and commenced gold production in February 2013 as an open pit operation. The property is now owned by Kirkland Lake Gold.

Figure 8 Mineral Deposits of the Northwestern Abitibi Greenstone Belt



In 1925, the discovery of volcanogenic massive sulphide ("VMS") Zn-Cu-Ag mineralization circa 70 km SE of Blakelock at Normetal, Quebec focused the first prospecting effort in this part of Canada (Beauregard and Gaudreault, 2019)

Previous reconnaissance exploration efforts in the Blakelock region were directed at volcanogenic massive sulphide ("VMS") deposits because such deposits can be associated with an anomalous airborne electromagnetic ("AEM") signature which, in turn, can be seen beneath regional till sheets and clay belts. For instance, approximately 92 km to the north-northeast of the Property, the 2,730 Ma Selbaie Mine (former BHP-Billiton producer), a stratiform and epithermal deposit represents a unique deposit in the Northern Abitibi (Tucker-Barrie and Krogh, 1996).

Less than 60 km east, in the province of Quebec, several VMS discoveries have been identified around the margin of the Mistaouac Batholith Complex, a synvolcanic intrusion. Properties previously held by Cambior Inc. (now IAMGold) cover a mixed volcanic-sedimentary package on the northwest margin of the batholith. Volcanic units comprise felsic pyroclastics with subordinate lavas in contact with a mafic lava sequence. To the west the volcanics are in thrust contact (the Gémini thrust) with a ~100 m thick turbidite sequence (greywacke-siltstone- mudstone) as well as iron formation, and the thrust boundary is commonly marked by graphite. To the east, units dip parallel to the batholith margin but shallow to 45° towards the west. Small felsic stocks and dykes crosscut all units.

The Estrades (Golden Hope) Mine is located approximately 25 km due east of the Casa Berardi Gold Mine, contains a polymetallic mineralization (Au, Ag, Cu and Zn).

7.3.2 Gold bearing structure in Porphyry Creek Area – Blakelock Property

Esso's historic diamond drill program on the Property encountered a significant anomalous zone of gold-silver mineralization associated with an intensely sericitized, quartz- veined and sulphide-mineralized porphyry. This area is referred to as Porphyry Creek (Figure 9). Mineralization was reported to be associated with mylonitic shear zones and quartz veins with up to 5% sulphides. Sulphide species described in the drill logs including pyrite, sphalerite, galena, molybdenite and chalcopyrite, as well as hessite, native bismuth and native gold. Best values obtained 10.9 g/t Au over 10.25 m including 210 g/t over 0.4 m (DDH # HN88-22) and 6.16 g/t Au over 4.55 m (DDH # HN88-28, Ref.: Assessment Files # 42H08NE0005, 42H08NE0016).

Historic drilling by (1988-2010) by Esso Minerals and Lake Shore Gold encountered mineralization that consisted of 50% vuggy to glassy coarse-grained quartz veins and stockworks in association with sulphides that is hosted by porphyriric granodiorite. Late slips and fractures offset in the quartz veins mineralization. The best intersection obtained was 15.68 g/t Au over 1.5 m (DDH # BL06-03).

In the northwest part of the Property some significant gold values were obtained by Placer Dome diamond drilling:

- DDH 346-001: 1.04 g/t Au over 0.87 m;
- DDH 346-002 : 2.16 g/t Au over 1.2 m;

In the northeast part of the Property, on diamond drilling completed by Esso in 1988 returned 1.14 g/t Au over 0.55 m (HN88-21).

Several other holes drilled by Esso and Lake Shore Gold returned some significant values immediately to the south and west of the Porphyry Creek Area:

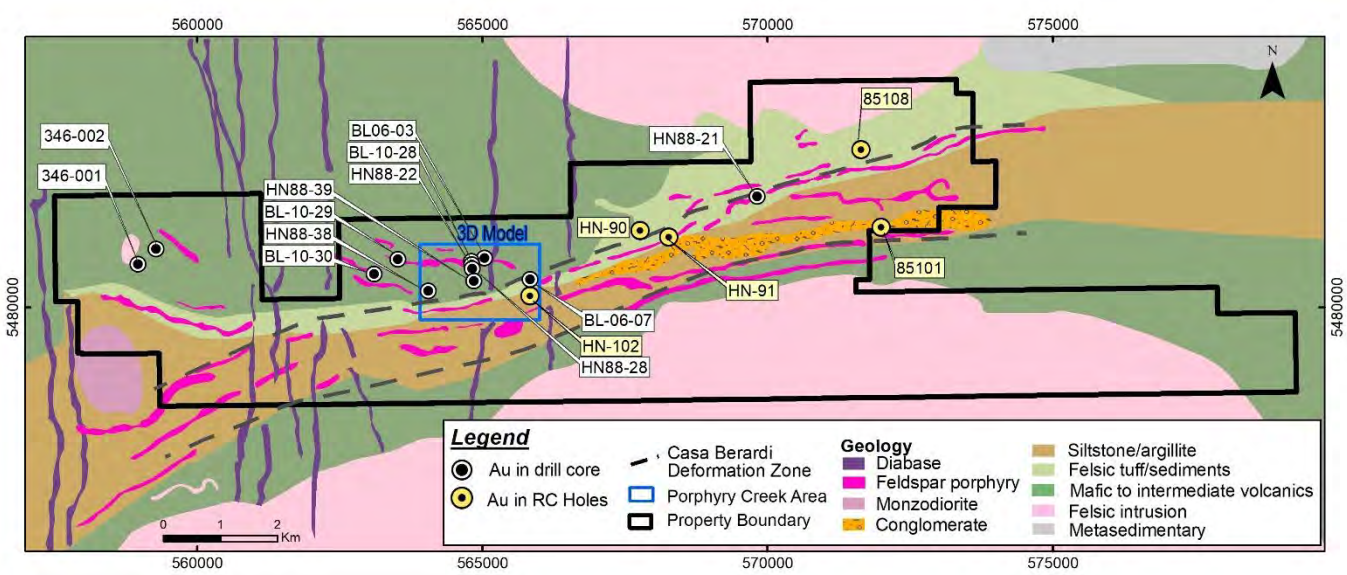
- BL06-07: 1.39 g/t Au over 5.9 m;
- BL-10-29 : 2.67 g/t Au over 1.0 m;
- BL-10-30 : 1.28 g/t Au over 0.7 m;

- HN88-38 : 2.6 g/t Au over 1.5 m;
- HN88-39 : 1.4 g/t Au over 0.8 m.

Several auriferous values were obtained in the reverse circulation drilling on the Property (Figure 9):

- Hole 85108: 5.93 g/t Au in the Matheson Till in the northeast part of the Property;
- Hole 85101: 3.47 g/t Au in the Ojibway II gravel / Matheson Till near the eastern limit of the Property;
- Hole HN-90 and HN-91: 12.7 g/t Au and 6.77 g/t Au in Till in the central part of the Property;
- Hole HN-102: 40.7 g/t Au in the gravel Till in the west central part of the Property;

Figure 9 Historic Exploration of the Blakelock Property



8 EXPLORATION

LaSalle undertook several initiatives to improve efforts for future exploration programs on the Property. These included a small drill program at the end of 2020 and the flying of LiDAR as well as detailed magnetic surveys in 2021. Due to the paucity of outcrop on the property, remote sensing and geophysical techniques are the best tools to identify structures of potential interest as well as to improve the geological picture of the Property. From a practical standpoint, LiDAR imagery can help to identify new roads/access trails that may aid in minimizing environmental impact during future exploration programs.

8.1 2020 Diamond Drilling Program

Between November 20 and December 18, 2020, LaSalle completed 486 metres of drilling on the Property in two (2) oriented, NQ diamond drill holes (Figure 10). LXB20-001 and LXB20-002 were drilled in the Porphyry Creek area to target gold mineralization intersected in historic holes (See Section 6.1) as well as to attempt to better understand the orientation of possible controlling structures. Location and orientation data for the two holes are found in Table 2. Cross-sections showing logged geology and assay results are provided in Appendix B, assay certificates are found in Appendix C, and drill logs are in Appendix D.

The program was completed by RJLL Forage / Drilling based out of Val-d'Or, Québec and was helicopter supported by Expedition Helicopters out of Cochrane, Ontario. Program design, management and Quality Control/Quality Assurance was conducted under the supervision of LaSalle President and CEO Ian Campbell, P. Geo, and Vice-President, Exploration Alan Sexton, P.Geo. GeoVector Management Inc. was retained to supervise and execute all aspects of core logging including core orientation, photography, geology, structural measurements, magnetic susceptibility, sampling, and the insertion of standard/blank material. Standards were obtained from OREAS North America Ltd. and QA/QC results were reviewed by Duncan Studd. P. Geo.

Table 2 – Summary of Late-Fall 2020 Drill Holes

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip	Length (m)
LXB20-001	564799	5480759.4	316.18	180	-50	162
LXB20-002	564960.2	5480890.9	309.91	180	-50	324

8.1.1 Results

8.1.1.1 Geological Observations

The following rock types were encountered:

- Quartz diorite (Figure 11-A).
- Mafic crystal to lapilli tuff (Figure 11-B).
- Massive mafic volcanic with localized pillow flows (Figure 11-C).
- Porphyritic intermediate intrusive (Figure 11-C).
- Quartz veins up to 30cm thick were hosted exclusively in quartz diorite (Figure 11-D, 11-E).

Pyrite of varying percentages was the dominant sulphide with rare occurrences of a blue-grey unidentified mineral (possibly silver-bearing) in LXB20-001 between 53.4-66.34m. Principal alteration assemblages comprise chlorite, epidote, carbonate, potassium feldspar, biotite, quartz flooding (rare), sericite (rare), and bleaching (rare). Complete drill logs are found in Appendix D.

Figure 10 Plan map of the 2020 Blakelock DDH Program

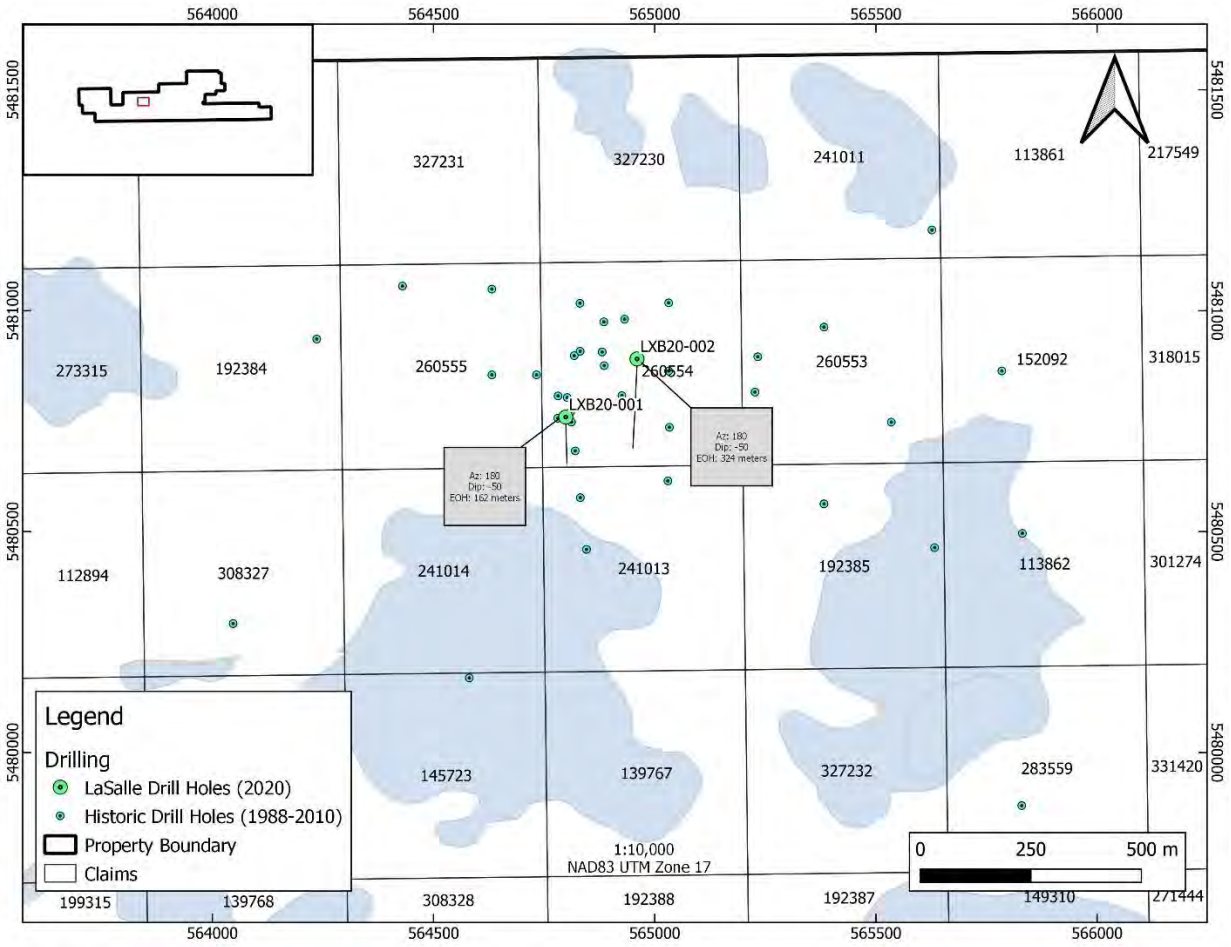
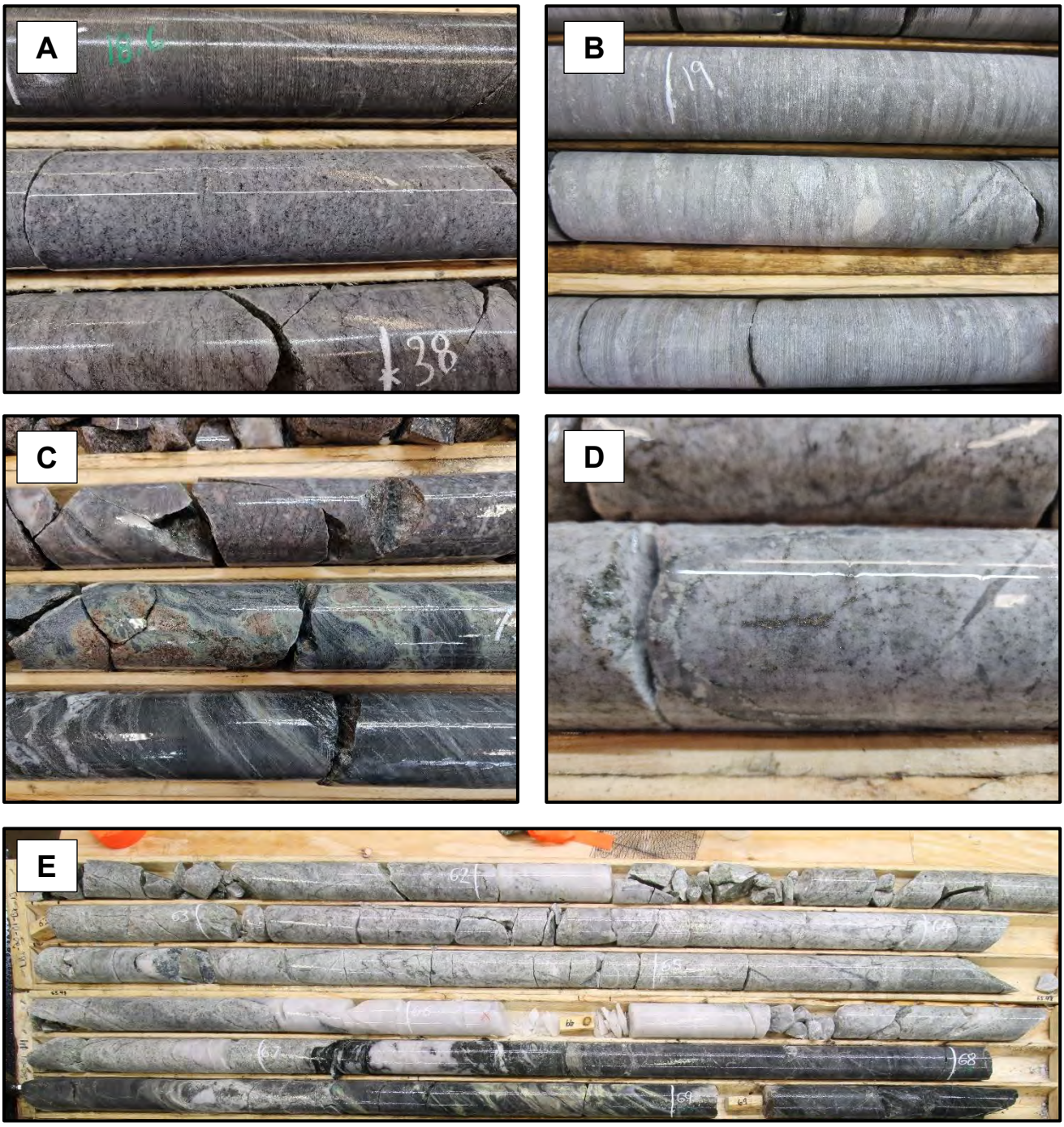


Figure 11 Main rock types intersected in the 2020 drill program



8.1.1.2 Structural Geology

Drill holes from the 2020 program were oriented using the DeviCore tool from SurveyTech Instruments and Services based out of Timmins, Ontario. Using this tool, drill contractors marked the bottom of the core barrel (when possible) following a run with a thin red line representing the plane of the core axis. Upon receipt of the core, Geotechnicians would assess the presence and quality of this mark and record it into the database. Following the fitting of the core, Geotechnicians would check if the run 'locked' (lined-up) with the previous run. A reference line would be drawn from mark to mark along the core axis and the line quality would be recorded. Structural measurements were taken using protractors and NQ wrap around protractors on lines of sufficient quality.

Between LXB20-001 and 002, forty-eight (48) oriented structure measurements were collected in total. Of these, only 24 measurements correspond to orientation lines with a high confidence of orientation. This program had limited core orientation success due to poor core competency. From the limited measurements collected in both holes, the mean foliation / shear orientation has a trend of 260°, but dips steeply to the south in LXB20-001, and moderately to the north in LXB20-002 (moderate dip caused by an outlier measurement with a shallow dip). This east-northeast trend is consistent with the inferred trend of the Casa-Berardi Deformation Zone, which dips steeply to the north. Other structures of note include a fracture set with a mean orientation of 272/38°, quartz veins with a mean orientation of 253/40°, and alteration bands with a mean orientation of 269/74°. Based on the limited success of core orientation on this program, it is recommended to supplement oriented core with optical televiewer data in future drill programs. A summary report on oriented core measurements including detailed photos is found in Appendix E

8.1.1.3 Significant Intersections from Assay Results

355 samples of half NQ core were taken and sent for assay. Intervals of note include:

LXB20-001: 0.24 g/t Au over 13.97m from 52.37-66.34m
LXB20-001: 1.48 g/t Au over 2m from 118-120; including 2.42 g/t over 1m from 119.0-120.0m
LXB20-002: 0.31 g/t Au over 2.85m from 184.15-187m
LXB20-002: 0.44 g/t Au over 11.14m from 256-267.14m; including 1.01 g/t over 1.22m from 260.98-262.2m.

Complete assays are found in Appendix C as well as within each drill log (Appendix D).

8.2 **2021 LiDAR Survey**

On May 11 and 12, 2021, a LiDAR survey was conducted over the entire Property by LiDAR Services International Inc. (“LSi”) based out of Calgary, Alberta, totalling 170.2 line-km and an area of 70 km^2. Airborne data was collected at an average flying height of 850 m above ground level and at a forward speed of 215 km/h over 11 flight lines (Figure 12). Data was collected in NAD83 (CSRS) UTM Zone 17N using the vertical datum CGVD2013.

Resultant products from this survey included LiDAR point clouds, Bare Earth and Full Feature gridded points, greyscale hillshades of Bare Earth and Full Feature Surfaces (Figures 13 and 14), Ortho-mosaic colour digital imagery (10cm pixel resolution, Figure 12), and an Index Map. A full description of parameters and deliverables are found in the LSi report in Appendix E.

Figure 12 Flight Lines and Ortho Photos from the 2021 LiDAR survey on the Blakelock Property

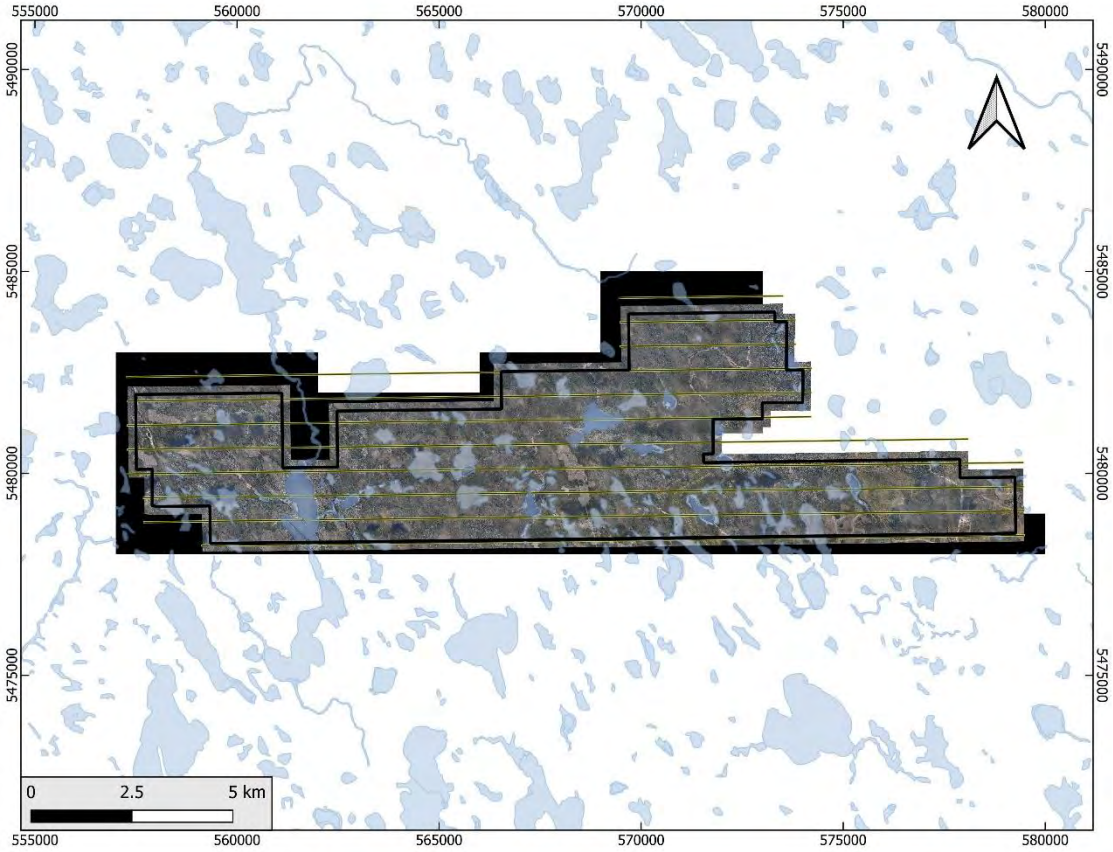


Figure 13 Bare Earth Image of the Blakelock Property

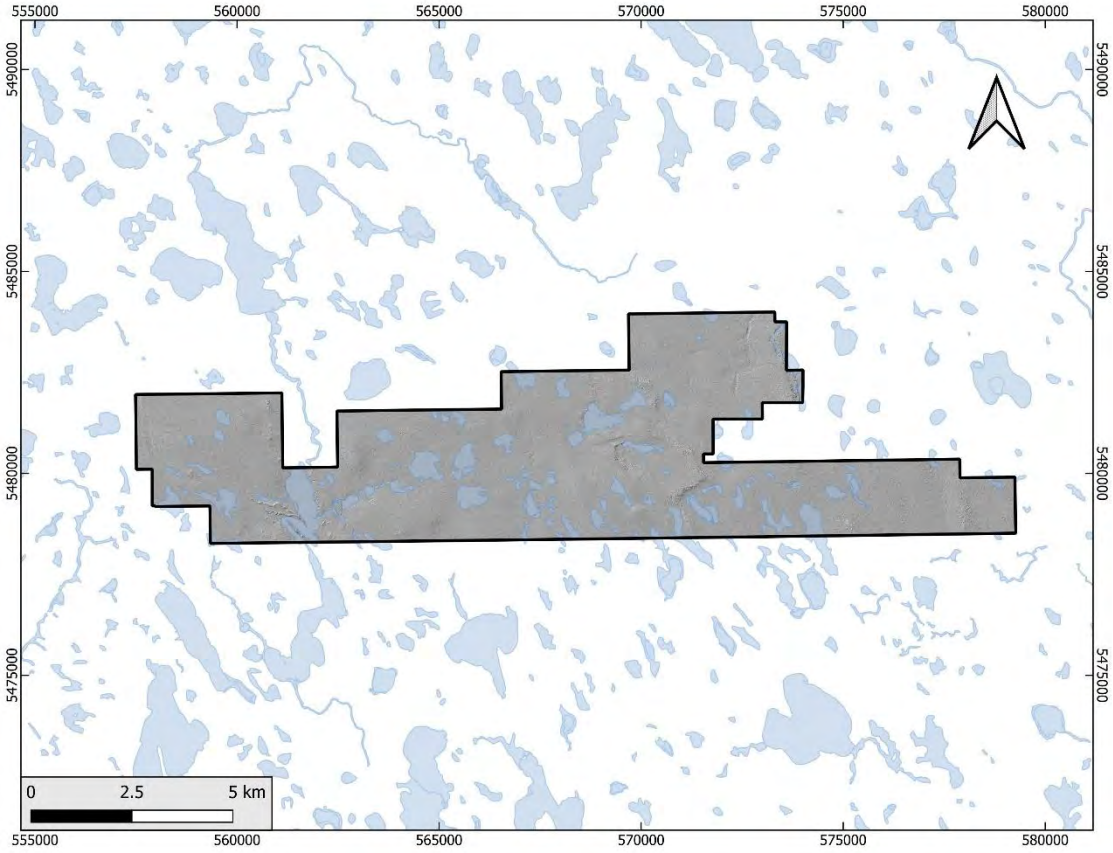
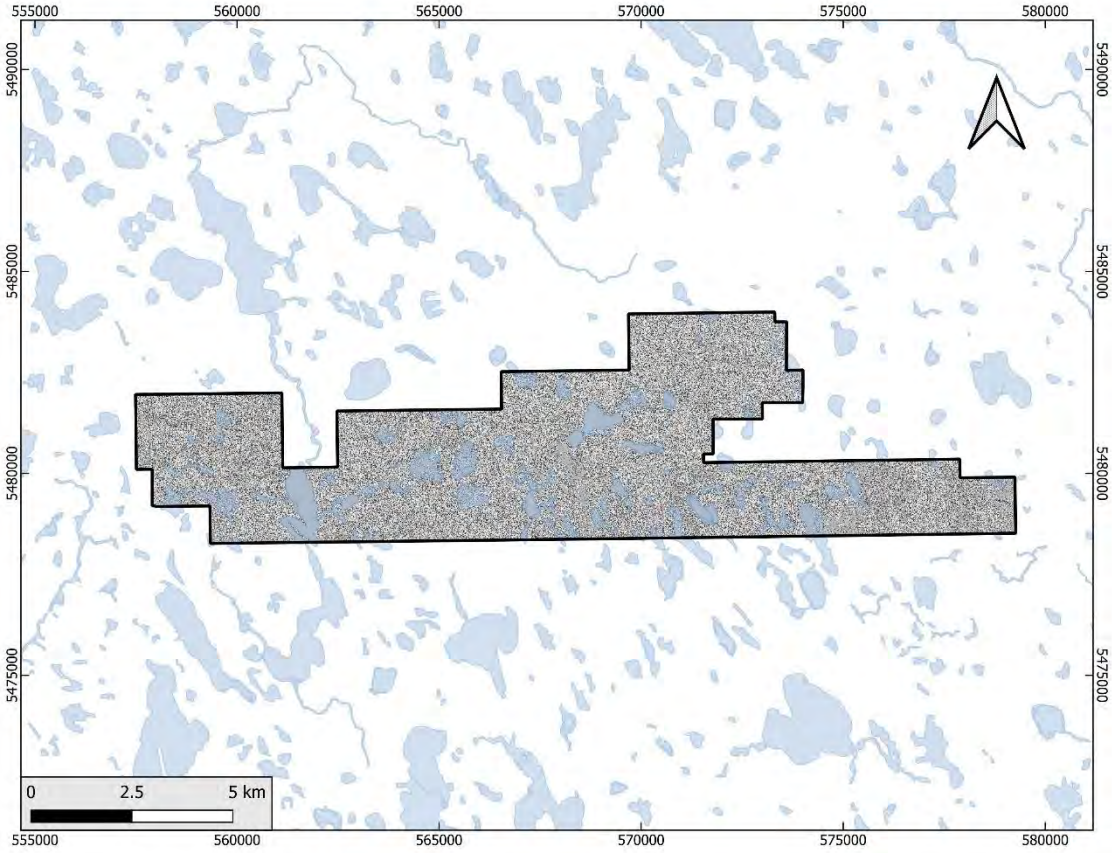


Figure 14 Full Feature Image of the Blakelock Property



8.2.1 Processing of the LiDAR data

A digital elevation model (DEM) and topographic contours were generated by GeoVector Management Inc. in October 2021 to better plan future drill programs and to generate more accurate elevation surfaces, general geological use, and for future 3D modeling exercises. This resulted in Figures 15 and 16. The DEM files were produced in Cloud Compare software. The Bare Earth grid files provided by LSi were loaded into Cloud Compare and merged into a single cloud. The software was then used to convert the point cloud to a 2D raster at a given resolution (in this case, 2 metre and 5 metre resolutions were selected) which were exported as a GeoTIFF file for use in GIS applications. The 5-metre resolution GeoTIFF was loaded into QGIS software, and contours were created from it using QGIS's Contour Raster function. The contours were created at 1-metre spacing. Subsequently, the contour lines were smoothed using the SAGA Line Smoothing function (specifically the included Gaussian Filtering algorithm) in the QGIS Processing Toolbox. Finally, to remove noise from the contour rendering, contours below ~20 metres in total length were removed from the file.

Figure 15 Digital Elevation Model of the Blakelock Property (5m resolution)

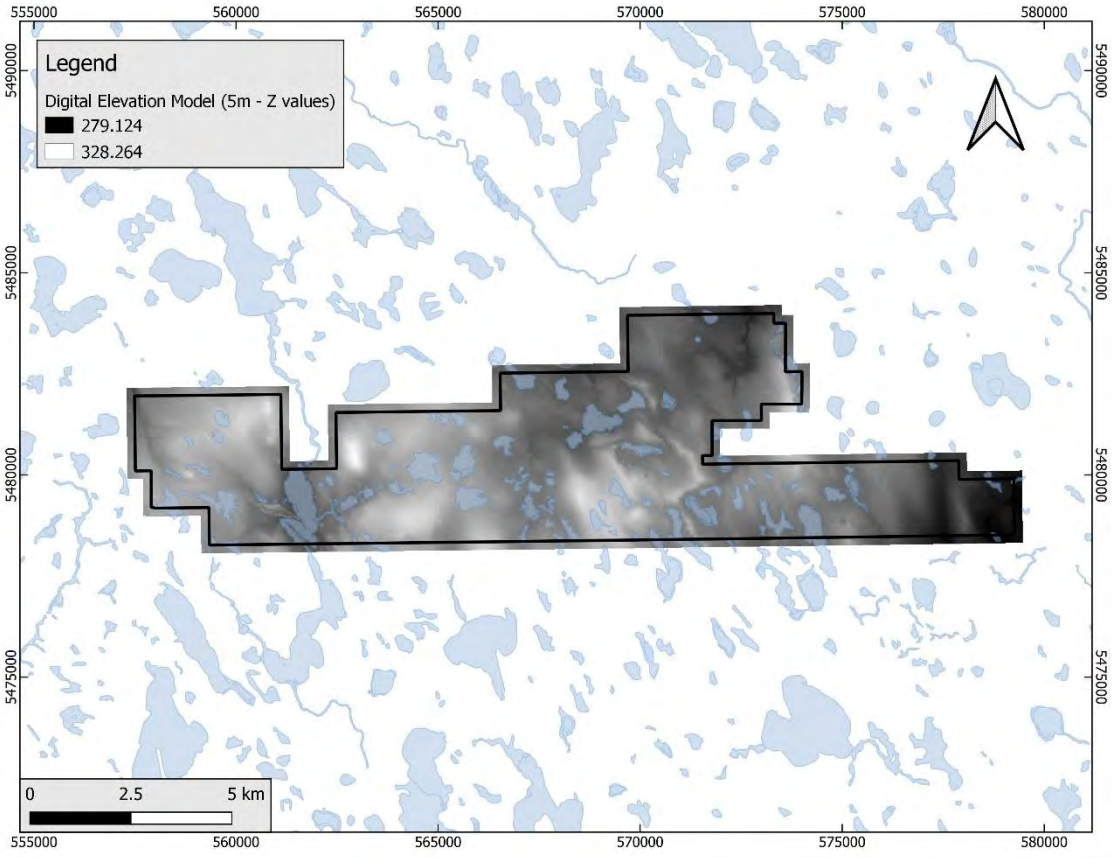
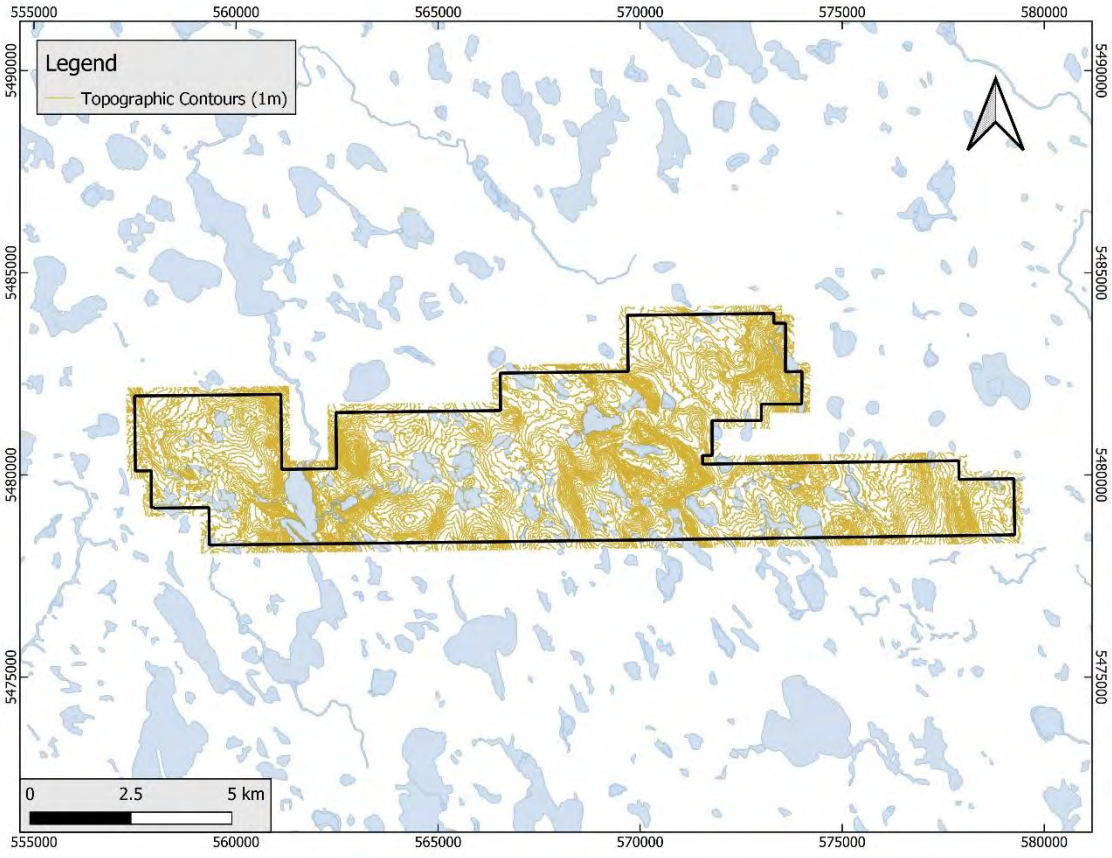


Figure 16 Topographic Contours of the Blakelock Property (1m resolution)



8.3 **2021 Airborne Geophysics**

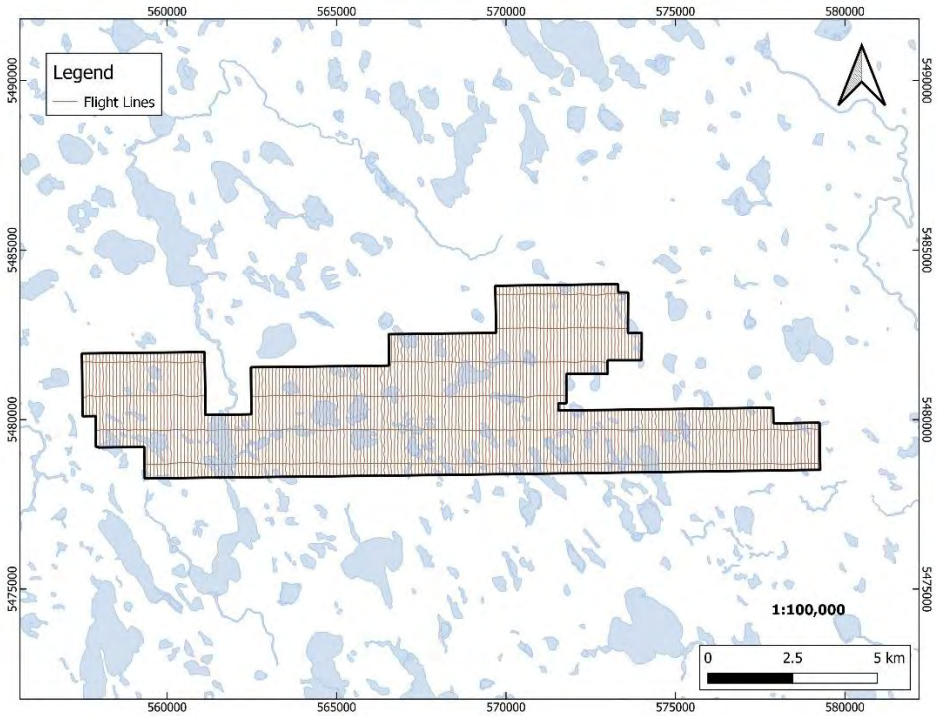
A high-resolution helicopter-borne magnetic gradiometer survey was flown over the Property from May 11 to May 14, 2021, by Precision GeoSurveys Inc. based in Langley, British Columbia. This survey was flown at 100 m line spacing at a heading of 000°/180° with tie lines being flown at 1000m spacing at a heading of 090°/270°. A total of 771 line-km was flown totalling 69.8 km^2 (Figure 17). Data was collected using the geodetic system WGS 84 UTM Zone 17N. As a result of the lack of outcrop on the Property, this survey was initiated to map geological features as well as aid in exploration for mineral deposits.

Resultant grids and maps from the survey include:

- Digital Terrain Model (DTM)
- Total Magnetic Intensity (TMI)
- Residual Magnetic Intensity (RMI)
- Reduced to Magnetic Pole (RTP)
- In-Line Gradient (ILG)
- Cross-Line Gradient (XLG)
- Vertical Gradient (VG)
- Horizontal Gradient (HG)
- Analytical Signal (AS)
- Tilt Derivative (TDR)
- First Vertical Derivative (1VD)
- Gradient enhanced Total Magnetic Intensity (TMIge)
- Gradient enhanced Residual Magnetic Intensity (RMIge)
- Gradient enhanced Reduced to Magnetic Pole (RTPge)

A detailed description of equipment used, survey parameters, and results are found in the Precision GeoSurveys Inc. report in Appendix E

Figure 17 2021 Airborne Geophysics Flight lines on the Blakelock Property



8.3.1 Geophysical Interpretation

A 1:25,000 structural interpretation was made of both the Total Magnetic Intensity (TMI) and Tilt Derivative (TDR) images to highlight gross and discrete features on the Property. This interpretation was realized by using QGis a Geographic Information Systems software using the NAD83 UTM Zone 17 datum. This exercise was completed over several days in October 2021 by GeoVector Management Inc.

Key findings from this exercise include:

- Figures 18 and 19 outline accurate structures and geological features inferred from magnetic imagery including a large intrusive body on the southeastern portion of the Property. Notably, several magnetic features match up well with the current Property geology (See Section 7.2) including the ~N-S diabase dykes as well as a swarm of porphyritic intrusive units (Figure 20). The interpretation derived from the TDR image shows possible folding at the central portion of the Property as well as several possible plugs/stocks defined by circular features (Figure 18).

Figure 18 Structural Interpretation of Total Magnetic Intensity Image of the Blakelock Property

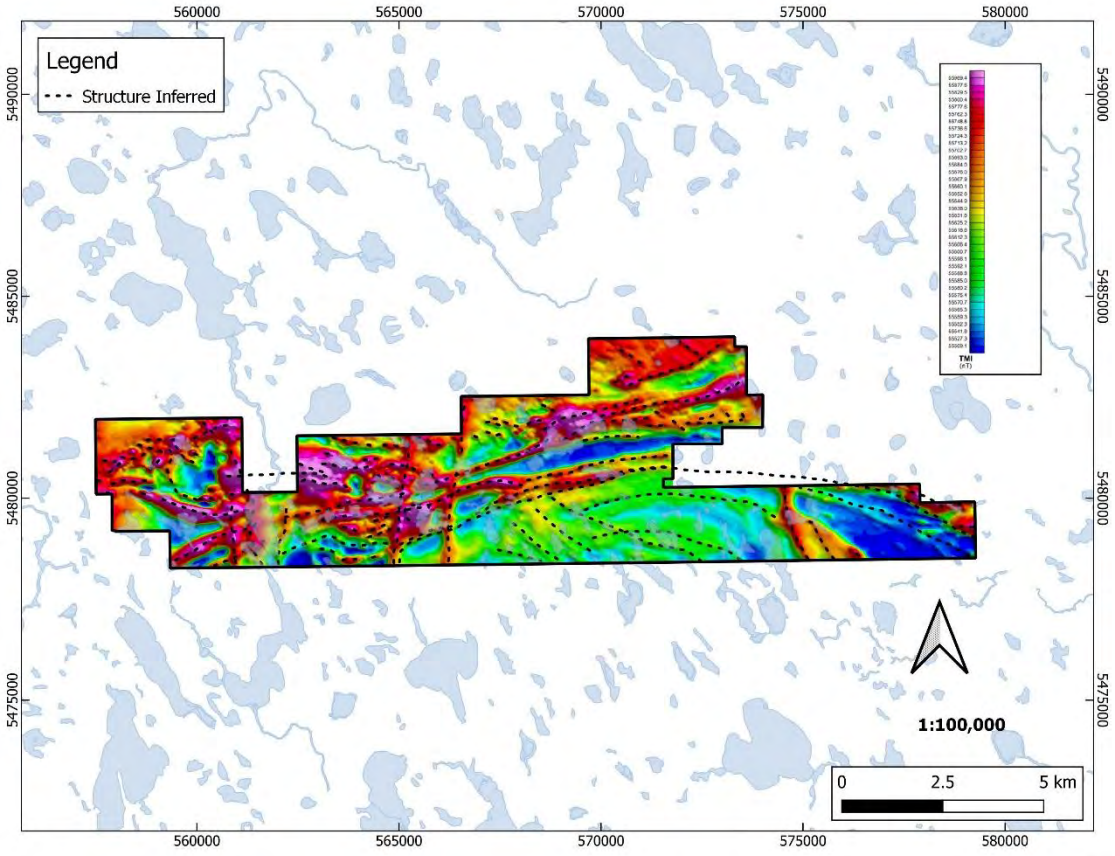


Figure 19 Structural Interpretation of Tilt Derivative Image of the Blakelock Property

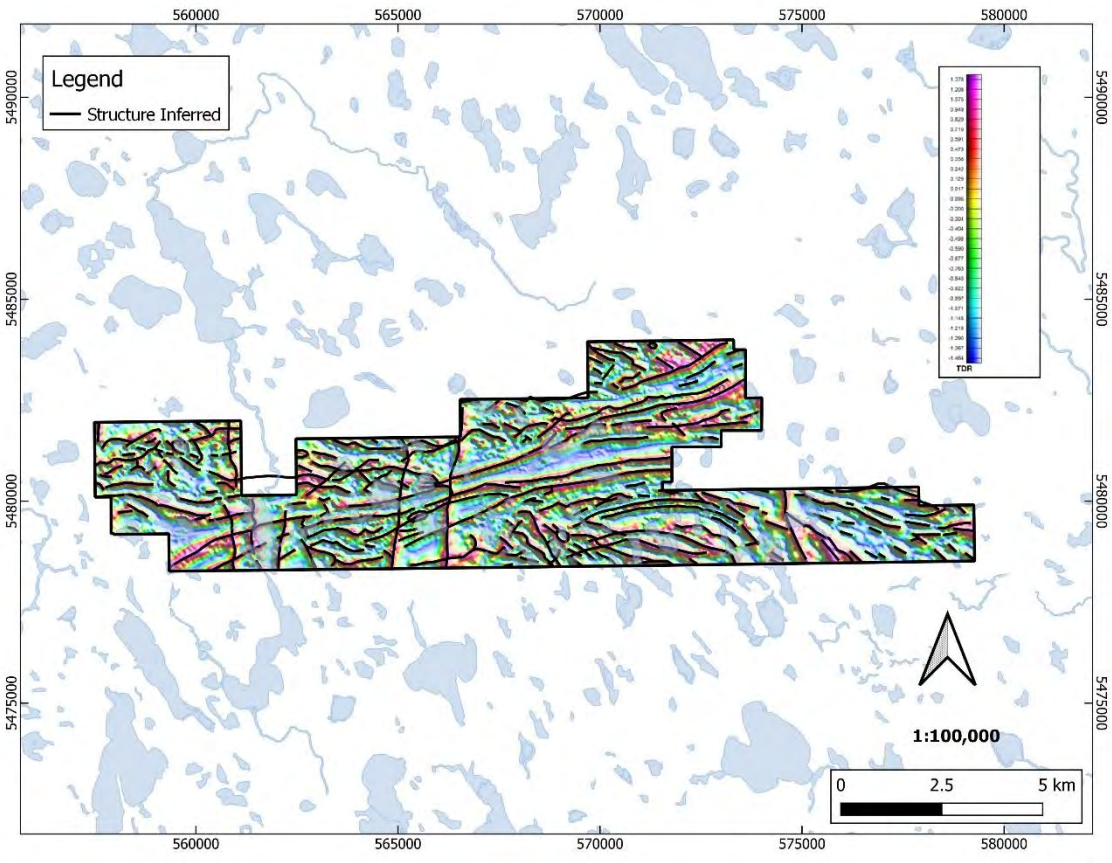
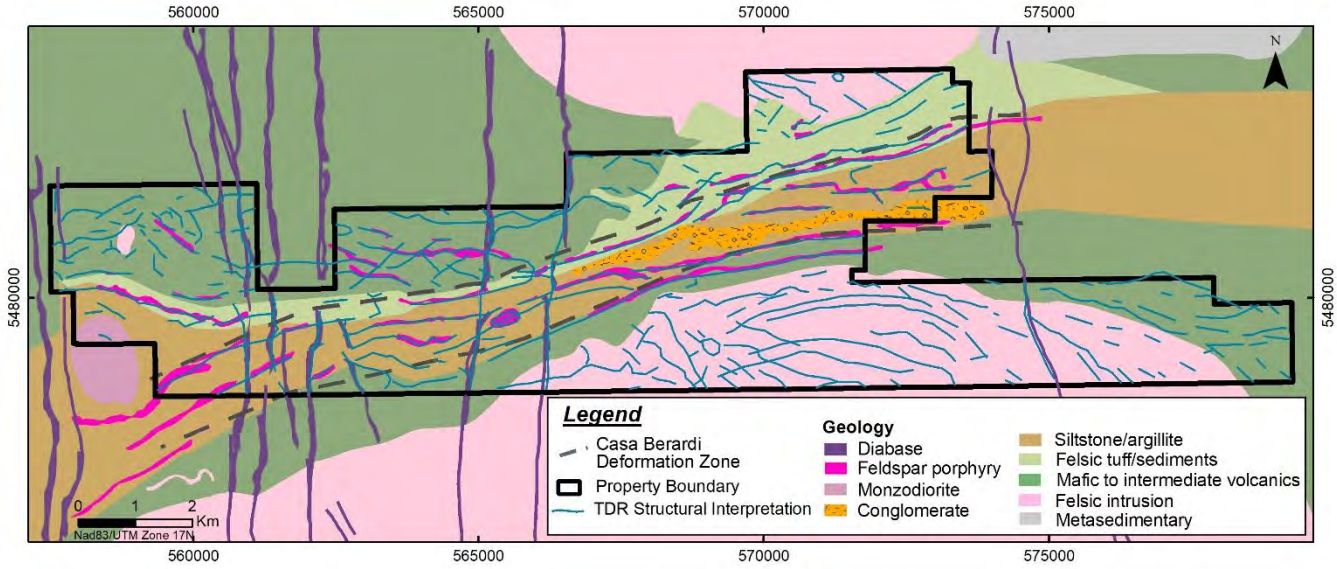


Figure 20 Structural Interpretation on the Blakelock Property Geology



9 PREPARATION, ANALYSIS AND SECURITY

Core logging was conducted in a facility at Expedition Helicopter's hangar located in Cochrane, ON. Sample intervals were clearly marked on core with red wax pencils and a portion of a sample tag having the sample number and barcode was inserted in the box marking the end of the sample interval. Drill core samples were cut by diamond saw with half the core left in the box and the other half placed into clearly marked sample bags along with an ALS sample tag. Blank and certified reference materials were inserted into the sample sequence every ten (10) samples. In addition, ALS routinely inserts certified standards, blanks, and pulp duplicate samples.

Individual sample bags were sealed and placed into rice bags and securely sealed for transportation by GeoVector personnel to ALS Limited sample preparation laboratory in Timmins, ON. This facility is a certified and accredited laboratory service provider, for sample preparation, with analyses being carried out by ALS in Vancouver. All rock samples were prepared by procedures CRU-31 (crush entire sample to 70% <2mm), PUL-32 (pulverize 1000 grams to 85% <75 microns) and SPL-21 (split 250 grams from the entire sample using a riffle splitter). A 30-gram sub-sample from the 250-gram riffle split was analyzed for gold by FA/AA (method Au-AA23), with any samples returning values of 10 g/t gold or higher being re-assayed by FA with a gravimetric finish (method AA-GRA21). All core samples were also analyzed for 33 elements by 4-acid ICP-AES (method ME-ICP61) and any base metals that returned values of 10,000 ppm or greater were assayed by a 4-acid ore grade (method Cu-OG62). Results of all ALS QA/QC samples are reported to LaSalle.

10 INTERPRETATION AND CONCLUSION

The Blakelock Property is in Ontario within portions of Blakelock and Hoblitzell Townships, approximately 60 km northeast of Cochrane and 140 km northeast of Timmins within map sheets 32E/05, 32E/12, 42H/08, and 42H/09 of the National Topographic System (NTS). This report on the 2020 and 2021 exploration programs conducted by LaSalle was prepared to satisfy assessment requirements under the Ontario Mining Act. The Blakelock Property consists of 340 single cell mining claims for a total surface area of 6,977 hectares or 69.77 km^2 and is 100% registered to LaSalle.

In the late-fall of 2020, a 486-metre diamond drill program intersected anomalous gold results in the Porphyry Creek area in two (2) NQ diamond drill holes. Additionally, these holes provided structural information relating to foliation fabrics, quartz-veins, and alteration bands. The resultant east-northeast trending foliation fabric is consistent with the inferred trend of the Casa-Berardi Deformation Zone, which dips steeply to the north at the nearby Casa Berardi Mine.

In May 2021, two airborne surveys were conducted over the Property. These comprised a 170.2 line-km LiDAR survey and a 771 line-km magnetic gradiometer survey. The resultant high-quality images served to advance the geological knowledge in the absence of appreciable outcrop on the Property. Additionally, these products will aid in future exploration planning and 3D-modeling.

The Property represents an exploration target for both gold and base metals due to its size and strategic location along the Casa-Beradi Deformation Zone, as well as the gold values returned from recent and historical drilling. The authors believe that the Property has the potential to host significant gold mineralization, and further work is warranted.

11 RECOMMENDATIONS

It is recommended that further work include:

- Historic drill hole database review including a section-by-section analysis and review of logged lithology both in the Porphyry Creek area and afield. Update geological maps and cross-sections as required. Generate 3D models of the Porphyry Creek area and the Property as a whole.
- Further processing and interpretation of geophysical data (AMAG and LiDAR) to highlight target areas of lithological contrasts (i.e., small intrusions and magnetic units with locally diminished magnetic signatures) and structural complexity (i.e., intersecting structures and pressure shadows), as well as areas along the extension of the CBDZ.
- Reverse circulation (“RC”) drill hole program on the eastern portion of the Property to follow up on results from previous operators to test continuity and repeatability of elevated values as well as to test the sedimentary package on the southern portion of the Property. This work will help refine existing target areas and define new target areas on the Property.
- Diamond drilling to test the highest priority target areas defined by the interpretation of the geophysical data and results from the RC drilling. It is recommended that oriented core be supplemented with optical televiewer data in areas with poor ground conditions.

12 REFERENCES

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Assessment Files from MNDM Ontario

Assessment File: 42H09SE0027
AFRO Number: 14
Township or Area: Blakelock
NTS: 42H08NE, 42H09SE
Year(s) Work Performed: 1960
Work Performed For: Conwest Expl Co Ltd

Assessment File: 42H09SE0030
AFRO Number: 63.1029
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1959
Work Performed For: Conwest Expl Co Ltd

Assessment File: 42H09SE0031
AFRO Number: 63.1028
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1959 to 1960
Work Performed For: Conwest Expl Co Ltd

Assessment File: 42H08NE0030
AFRO Number: 16
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1967
Work Report Number: W6708.97871
Work Performed For: Texas Gulf Sulphur Co

Assessment File: 42H09SE0037
AFRO Number: 17
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1967
Work Performed For: Texas Gulf Sulphur Co

Assessment File: 42H09SE5008
AFRO Number: W7708-00151
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00151
Work Performed For: Hudson Bay Expl & Dev Co Ltd

Assessment File: 42H09SE5009
AFRO Number: W7708-00150
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00150
Work Performed For: Hudson Bay Expl & Dev Co Ltd

Assessment File: 42H09SE5010
AFRO Number: W7708-00141
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00141
Work Performed For: Hudson Bay Expl & Dev Co Ltd.

Assessment File: 42H09SE5011
AFRO Number: W7708-00108
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00108
Work Performed For: Hudson Bay Expl & Dev Co Ltd.

Assessment File: 42H09SE5012
AFRO Number: W7708-00107
Township or Area: Blakelock
NTS 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00107
Work Performed For: Hudson Bay Expl & Dev Co Ltd

Assessment File: 42H09SE5013
AFRO Number: W7708-00102
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00102
Work Performed For: Hudson Bay Expl & Dev Co Ltd

Assessment File: 42H09SE5014
AFRO Number: W7708-00100
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Performed For: Hudson Bay Expl & Dev Co Ltd.

Assessment File: 42H09SE0025
AFRO Number: 2.9748
Township or Area: Blakelock NTS: 42H09SE
Year(s) Work Performed: 1987
Work Report Number: W8608.00553
Work Performed For: Mineta Resc Ltd.

Assessment File: 42H09SE0026
AFRO Number: 2.4963
Township or Area: Blakelock, Tweed
NTS: 42H09SE
Year(s) Work Performed: 1982
Work Report Number: W8208.00171
Work Performed For: Utah Mines Ltd.

Assessment File: 42H09SE0028
AFRO Number: 2.2430
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Performed For: Hudson Bay Expl & Dev Co Ltd.

Assessment File: 42H09SE0029
AFRO Number: 2.2406
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Performed For: Hudson Bay Expl & Dev Co Ltd.

Assessment File: 42H08NE0027
AFRO Number: 11
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1976
Work Performed For: Geophysical Engineering Ltd

Assessment File: 42H08NE0028
AFRO Number: 10
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1976
Work Performed For: Geophysical Engineering Ltd

Assessment File: 42H08NE0029
AFRO Number: 12
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1976
Work Performed For: Geophysical Engineering Ltd

Assessment File: 42H09SE5015
AFRO Number: W7708-00043
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00043
Work Performed For: Geophysical Engineering Ltd.

Assessment File: 42H09SE5016
AFRO Number: W7708-00031
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1977
Work Report Number: W7708.00031
Work Performed For: Geophysical Engineering Ltd.

Assessment File: 42H09SE5017
AFRO Number: W7708-00030
Township or Area: Blakelock
NTS: 42H09SE

Year(s) Work Performed: 1977
Work Report Number: W7708.00030
Work Performed For: Geophysical Engineering Ltd.
Assessment File: 42H09SE0006
AFRO Number: 22
Township or Area: Hoblitzell
NTS: 42H09SE
Year(s) Work Performed: 1989
Work Report Number: W8908.00141
Work Performed For: Esso Resources Canada Ltd

Assessment File: 42H09SE0009
AFRO Number: 2.10071
Township or Area: Blakelock, Hoblitzell
NTS: 42H09SE
Year(s) Work Performed: 1986
Work Report Number: W8708.00189, W8708.00190, W8708.00191
Work Performed For: Esso Minerals Canada Ltd.

Assessment File: 42H09SE0015
AFRO Number: 63.5352
Township or Area: Blakelock, Tweed
NTS: 42H09SE
Year(s) Work Performed: 1989
Work Performed For: Chevron Minerals Ltd

Assessment File: 42H09SE0016
AFRO Number: 2.10677
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1987
Work Report Number: W8708.00432 Work Performed For: Nartico Resc Ltd

Assessment File: 42H09SE0022
AFRO Number: 2.9782
Township or Area: Blakelock, Newman
NTS: 42H09SE
Year(s) Work Performed: 1987
Work Report Number: W8608.00546
Work Performed For: Glen Auden Resc Ltd, Montclerg Resc Ltd.

Assessment File: 42H09SE0023
AFRO Number: 2.9777
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1987
Work Performed For: Goldrock Resc Inc.

Assessment File: 42H09SE0024
AFRO Number: 2.9775
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1987
Work Report Number: W8608.00541
Work Performed For: Akola Mining Corp, Glen Auden Resc Ltd.

Assessment File: 42H09SE0014
AFRO Number: 21
Township or Area: Blakelock
NTS: 42H09SE
Year(s) Work Performed: 1988
Work Report Number: W8908.00001
Work Performed For: Chevron Minerals Ltd.

Assessment File: 42H08NE0005
AFRO Number: 24
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1988
Work Report Number: W8908.00141
Work Performed For: Esso Resources Canada Ltd.

Assessment File: 42H08NE0016
AFRO Number: 23
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1988
Work Report Number: W8908.00093
Work Performed For: Esso Resources Canada Ltd.

Assessment File: 42H08NE8070
AFRO Number: 28
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 1990
Work Report Number: W9008.00646
Work Performed For: Inco Ltd.

Assessment File: 42H08NE9312
AFRO Number: 24
Township or Area: Hoblitzell
NTS: 42H08NE
Year(s) Work Performed: 1990
Work Report Number: W9008.00646, W9008.00739
Work Performed For: Inco Ltd.

Assessment File: 32E12SW0034
AFRO Number: 2.13517
Township or Area: Hoblitzell
NTS: 32E12SW
Year(s) Work Performed: 1990
Work Report Number: W9008.00241
Work Performed For: Cogema Canada Ltd

Assessment File: 20000001873
AFRO Number: 2.33979
Township or Area: Blakelock, Newman
NTS: 42H08NE
Year(s) Work Performed: 2006 to 2007
Work Report Number: W0780.00130
Work Performed For: Lake Shore Gold Corp.

Assessment File: 20000001982
AFRO Number: 2.34430
Township or Area: Blakelock
NTS: 42H08NE
Year(s) Work Performed: 2006
Work Report Number: W0780.00497
Work Performed For: Lake Shore Gold Corp.

Assessment File: 20000005454
AFRO Number: 2.42972
Township or Area: Blakelock, Bragg, Hoblitzell, Newman, Tweed
NTS: 42H08NE, 42H08NW
Year(s) Work Performed: 2008 to 2009
Work Report Number: W0980.02568
Work Performed For: Lake Shore Gold Corp

Assessment File: 20000006133
AFRO Number: 2.47425
Township or Area: Blakelock, Bradette, Hoblitzell, Noseworthy
NTS : 32E05NE, 32E05NW, 32E12SE, 32E12SW, 42H08NE
Year(s) Work Performed: 2010 to 2011
Work Report Number: W1180.00229
Work Performed For: Lake Shore Gold Corp

13 CERTIFICATE OF QUALIFICATIONS

I, Alan J. Sexton, M.sc, P.Geo. of 41 Barrhaven Crescent, Nepean, Ontario, hereby certify that:

1. I am currently the VP Exploration of LaSalle Exploration Corp.
2. I am a graduate of Saint Mary's University having obtained the degree of Bachelor of Science – Honours Geology in 1982.
3. I am a graduate of Acadia University having obtained the degree of Masters of Science in Geology in 1988.
4. I have been employed as a geologist for every field season (May – October) from 1979 to 1984. I have been continuously employed as a geologist since May 1985.
5. I am a member in good standing of the:
    a. Professional Geoscientists of Ontario (PGO), member # 0563
    b. Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG), member # L1339
    c. Association of Professional Engineers and Geoscientists of Newfoundland and Labrador (PEGNL), member #04028
6. I was involved with work described in this report.
7. I am responsible for all sections of this assessment report.

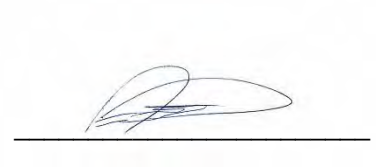
Signed and dated this 5th day of November 2021 at Ottawa, Ontario.

Alan Sexton, M.Sc., P. Geo

I, Adam Findley, M.Sc., P.Geo. of 921 Eastboro Avenue, Orleans, ON, hereby certify that:

1. I am a graduate of University of Ottawa having obtained the degree of Bachelor of Science – Honours Geology in 2007.
2. I am a graduate of Queens University having obtained the degree of Masters of Science in Geology in 2010.
3. I have been employed during the 2006-2009 summer field seasons; I have been continually employed as a geologist since 2010.
4. I am a member of the Professional Geoscientists of Ontario (PGO), licence #2852, and use the designation P.Geo. I am a member of the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG), license L3968.
5. I was involved in work described in this report.
6. I contributed to writing this assessment report.

Signed and dated this 5th day of November 2021 at Ottawa, Ontario.

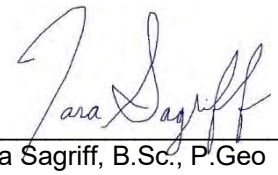


Adam Findley, M.Sc., P. Geo

I, Tara-Lynn M. Sagriff, B.Sc., P.Geo. of 7 Bylot Court, Kanata, Ontario, hereby certify that:

1. I am currently a consulting geologist for LaSalle Exploration Corp.
2. I am a graduate of Carleton University having obtained the degree of Bachelor of Science Geology in 1994.
3. I have been employed as a geologist since May 1994.
4. I am a member in good standing of the Professional Geoscientists of Ontario (PGO), member # 2940
5. I was involved with work described in this report.
6. I contributed to the writing of this assessment report.

Signed and dated this 5th Day of November 2021 at Ottawa, Ontario.



Tara Sagriff, B.Sc., P.Geo

I, Duncan Studd, M. Sc., P. Geo. of 51 St Francis Street, Ottawa, Ontario, hereby certify that:

1. I am a resource geologist with GeoVector Management Inc., 10 Green Street Suite 312 Ottawa, Ontario, Canada K2J 3Z6.

2. I am a graduate of Carleton University having obtained the degree of Bachelor of Science - Honours in Geology in 2006 and the degree of Masters of Science in Earth Science in 2010.

3. I have been employed as a geologist from May of 2006 to September of 2008. I have been continuously employed as a geologist since September of 2010.

4. I have been involved in mineral exploration and resource modeling for gold, silver, copper, zinc, nickel, uranium, and platinum/palladium in Canada, USA, Sweden, Norway, Chile, and Mexico at the grass roots to advanced exploration stage since 2006, including resource estimation since 2012.

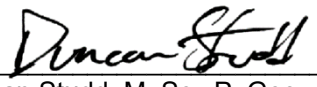
5. I am a member of the Professional Geoscientists of Ontario (PGO), licence #2290, and use the designation P.Geo. I am a member of the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG), license L3369.

6. I have read the definition of "Qualified Person" set out in National Instrument 43-101(“NI 43-101") and certify that by reason of my education, affiliation of my professional association and past relevant work experience, I fulfill the requirements to be a "Qualified Person" for the purposes of NI 43-101.

7. I was involved with work described in this report.

8. I contributed to the writing of this report.

Signed and dated this 4th day of November 2021 at Ottawa, Ontario.



Duncan Studd, M. Sc., P. Geo., GeoVector Management Inc.

APPENDIX A – CLAIMS OF THE BLAKELOCK PROPERTY

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
1	113861	3005461	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
2	117430	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
3	117429	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
4	112130	4209460	2021-11-08	20.97	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
5	110392	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
6	112894	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
7	112323	4209484	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
8	121514	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
9	122806	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
10	132044	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
11	121515	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
12	121333	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
13	120162	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
14	124306	4209461	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
15	124305	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
16	341562	3005461	2022-01-21	20.98	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
17	341561	4209460	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
18	103312	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
19	338388	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
20	339613	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
21	334663	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
22	339615	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
23	339614	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
24	108549	4209484	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
25	625388		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
26	107937	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
27	109124	3005459	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
28	625385		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
29	625384		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
30	625387		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
31	625386		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
32	339738	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
33	343616	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
34	625389		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
35	339739	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
36	344507	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
37	331420	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
38	343615	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
39	344508	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
40	625395		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
41	625394		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
42	625397		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
43	625396		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
44	625391		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
45	625390		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
46	625393		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
47	625392		2022-12-18	20.98	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
48	327232	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
49	327231	3005460	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
50	327763	4209460	2021-11-08	20.97	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
51	324245	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
52	317289	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
53	318246	4209480	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
54	327230	3005460	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
55	320516	3005459	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
56	330701	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
57	335983	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
58	330104	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
59	330702	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
60	327765	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
61	327764	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
62	327768	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
63	327766	3005461	2022-01-21	20.97	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
64	308360	4209461	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
65	308359	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
66	310290	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
67	305704	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
68	308327	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
69	302816	3005461	2022-01-21	20.98	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
70	308329	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
71	308328	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
72	318032	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
73	318031	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
74	318365	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
75	315045	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
76	317008	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
77	316990	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
78	318015	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
79	317009	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
80	300365	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
81	300263	4209480	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
82	299972	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
83	300366	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
84	293655	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
85	295052	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
86	298058	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
87	293656	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
88	304866	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
89	299336	4209461	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
90	303689	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
91	301274	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
92	300880	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
93	299973	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
94	299335	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
95	299334	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
96	275180	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
97	275179	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
98	280638	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
99	275181	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
100	270782	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
101	270764	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
102	277732	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
103	273315	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
104	292827	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
105	284681	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
106	290670	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
107	290669	3005461	2022-01-21	20.98	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
108	280822	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
109	280639	4209461	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
110	282626	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
111	283559	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
112	260554	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
113	260553	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
114	258519	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
115	260555	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
116	257661	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
117	256175	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
118	260572	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
119	257662	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
120	271444	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
121	263710	3005459	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
122	270763	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
123	270157	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
124	262984	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
125	262682	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
126	263709	4209480	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
127	264341	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
128	249097	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
129	242908	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
130	249079	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
131	249098	4209461	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
132	246751	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
133	246750	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
134	244174	3005459	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
135	244173	4209480	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
136	257123	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
137	252136	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
138	256174	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
139	257124	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
140	254104	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
141	251703	3005459	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
142	256562	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
143	254105	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
144	236980	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
145	237513	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
146	238945	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
147	236981	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
148	232633	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
149	233393	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
150	234185	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
151	232634	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
152	241023	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
153	241014	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
154	238561	4209484	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
155	238560	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
156	241011	3005460	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
157	238946	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
158	241013	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
159	241012	3005459	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
160	625479		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
161	625478		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
162	625481		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
163	625480		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
164	625467		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
165	625466		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
166	625469		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
167	625468		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
168	625463		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
169	625462		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
170	625465		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
171	625464		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
172	625475		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
173	625474		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
174	625477		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
175	625476		2022-12-18	20.99	HOBLITZELL	LaSalle Exploration Corp
176	625471		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
177	625470		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
178	625473		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
179	625472		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
180	625451		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
181	625450		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
182	625453		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
183	625452		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
184	625447		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
185	625446		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
186	625449		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
187	625448		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
188	625459		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
189	625458		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
190	625461		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
191	625460		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
192	625455		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
193	625454		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
194	625457		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
195	625456		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
196	625435		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
197	625434		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
198	625437		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
199	625436		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
200	625431		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
201	625430		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
202	625433		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
203	625432		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
204	625443		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
205	625442		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
206	625445		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
207	625444		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
208	625439		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
209	625438		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
210	625441		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
211	625440		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
212	625419		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
213	625418		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
214	625421		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
215	625420		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
216	625415		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
217	625414		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
218	625417		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
219	625416		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
220	625427		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
221	625426		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
222	625429		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
223	625428		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
224	625423		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
225	625422		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
226	625425		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
227	625424		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
228	625403		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
229	625402		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
230	625405		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
231	625404		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
232	625399		2022-12-18	20.98	BLAKELOCK	LaSalle Exploration Corp
233	625398		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
234	625401		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
235	625400		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
236	625411		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
237	625410		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
238	625413		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
239	625412		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
240	625407		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
241	625406		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
242	625409		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
243	625408		2022-12-18	20.98	HOBLITZELL	LaSalle Exploration Corp
244	221490	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
245	220458	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
246	224595	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
247	221491	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
248	211887	4209461	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
249	211886	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
250	217549	3005461	2022-01-21	20.97	BLAKELOCK	LaSalle Exploration Corp
251	216007	3005461	2022-01-21	20.98	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
252	614954		2022-10-06	20.98	HOBLITZELL	LaSalle Exploration Corp
253	614953		2022-10-06	20.98	HOBLITZELL	LaSalle Exploration Corp
254	233392	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
255	614955		2022-10-06	20.98	HOBLITZELL	LaSalle Exploration Corp
256	224597	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
257	224596	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
258	227437	4209473	2022-03-15	20.96	HOBLITZELL	LaSalle Exploration Corp
259	228444	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
260	195810	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
261	195809	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
262	199013	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
263	196676	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
264	192413	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
265	192389	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
266	195796	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
267	195795	4209486	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
268	214415	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
269	209956	4209484	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
270	211885	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp

No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
271	214416	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
272	201939	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
273	199315	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
274	209801	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
275	201940	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
276	614948		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
277	614947		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
278	614950		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
279	614949		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
280	614944		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
281	184828	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
282	614946		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
283	614945		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
284	192386	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
285	192385	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
286	192388	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
287	192387	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
288	614952		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
289	614951		2022-10-06	20.98	BLAKELOCK	LaSalle Exploration Corp
290	192384	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
291	190533	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
292	167395	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
293	164508	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
294	172254	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
295	171939	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
296	155612	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
297	155611	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
298	164507	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
299	162069	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
300	177528	3005459	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
301	180042	3005461	2022-01-21	20.98	BLAKELOCK, HOBLITZELL	LaSalle Exploration Corp
302	180860	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
303	180859	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
304	172830	4209473	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
305	172255	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
306	180041	4209460	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
307	174354	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
308	149568	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
309	148037	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp

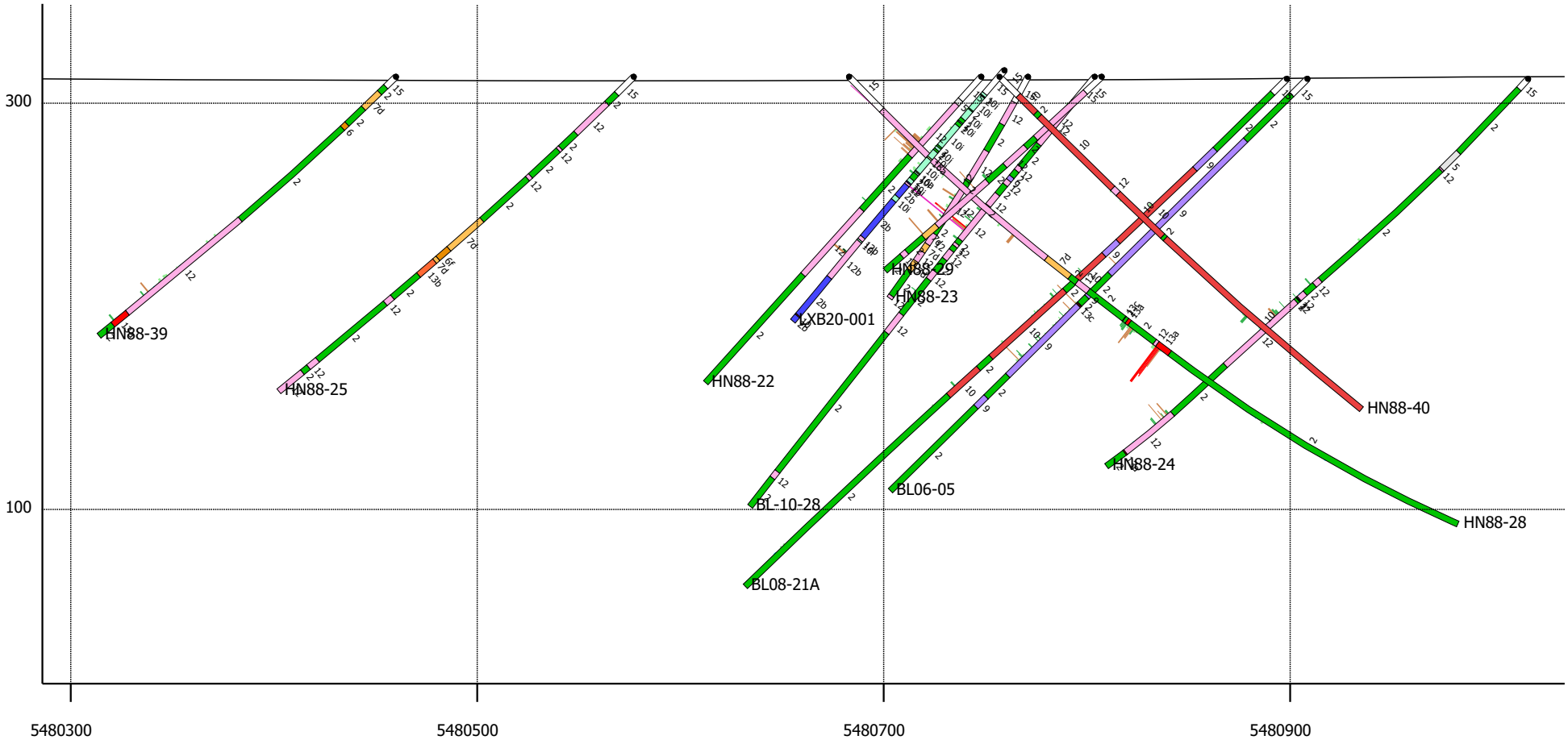
No.	TENURE ID	LEGACY ID	ANNIVERSARY	AREA (Ha)	TOWNSHIP	HOLDER
310	149310	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
311	149569	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
312	145752	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
313	145732	4209460	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
314	147707	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
315	141770	4209474	2021-11-28	20.98	HOBLITZELL	LaSalle Exploration Corp
316	157823	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
317	150784	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
318	155610	4209485	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
319	159870	4209461	2021-11-08	20.97	HOBLITZELL	LaSalle Exploration Corp
320	151196	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
321	151429	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
322	150783	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
323	152092	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
324	134823	4209460	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
325	132902	4209483	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
326	134825	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
327	134824	4209462	2021-11-08	20.98	HOBLITZELL	LaSalle Exploration Corp
328	132821	4209461	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
329	132820	4209470	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
330	132706	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
331	132822	4209472	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
332	138263	4209473	2022-03-15	20.96	HOBLITZELL	LaSalle Exploration Corp
333	138262	4209471	2022-03-15	20.97	HOBLITZELL	LaSalle Exploration Corp
334	145723	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
335	143223	4209484	2022-03-15	20.97	BLAKELOCK	LaSalle Exploration Corp
336	137665	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
337	137664	4209482	2022-03-15	20.98	BLAKELOCK	LaSalle Exploration Corp
338	139768	3005459	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
339	139767	3005460	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp
340	113862	3005461	2022-01-21	20.98	BLAKELOCK	LaSalle Exploration Corp

APPENDIX B – CROSS SECTIONS OF THE 2020 DIAMOND DRILL HOLES

Section 564800E, Looking West

S

N



Au_g_t

≤ 0	≤ 1	
≤ 0.1	≤ 5	
≤ 0.2	≤ 25	
≤ 0.5	> 25	

Primary_Lithology

1	7	15	13a	3a	5d	9a	2m	
2	9	16	13b	4i	6f	9b		
3	10	10a	13c	4j	7d	10i		
4	12	10b	2a	4m	7a	16a		
5	13	12a	2i	5b	7e	2b		
6	14	12b	2l	5f	7h	2j		

Scale: 1:3,000

Vertical exaggeration: 1x

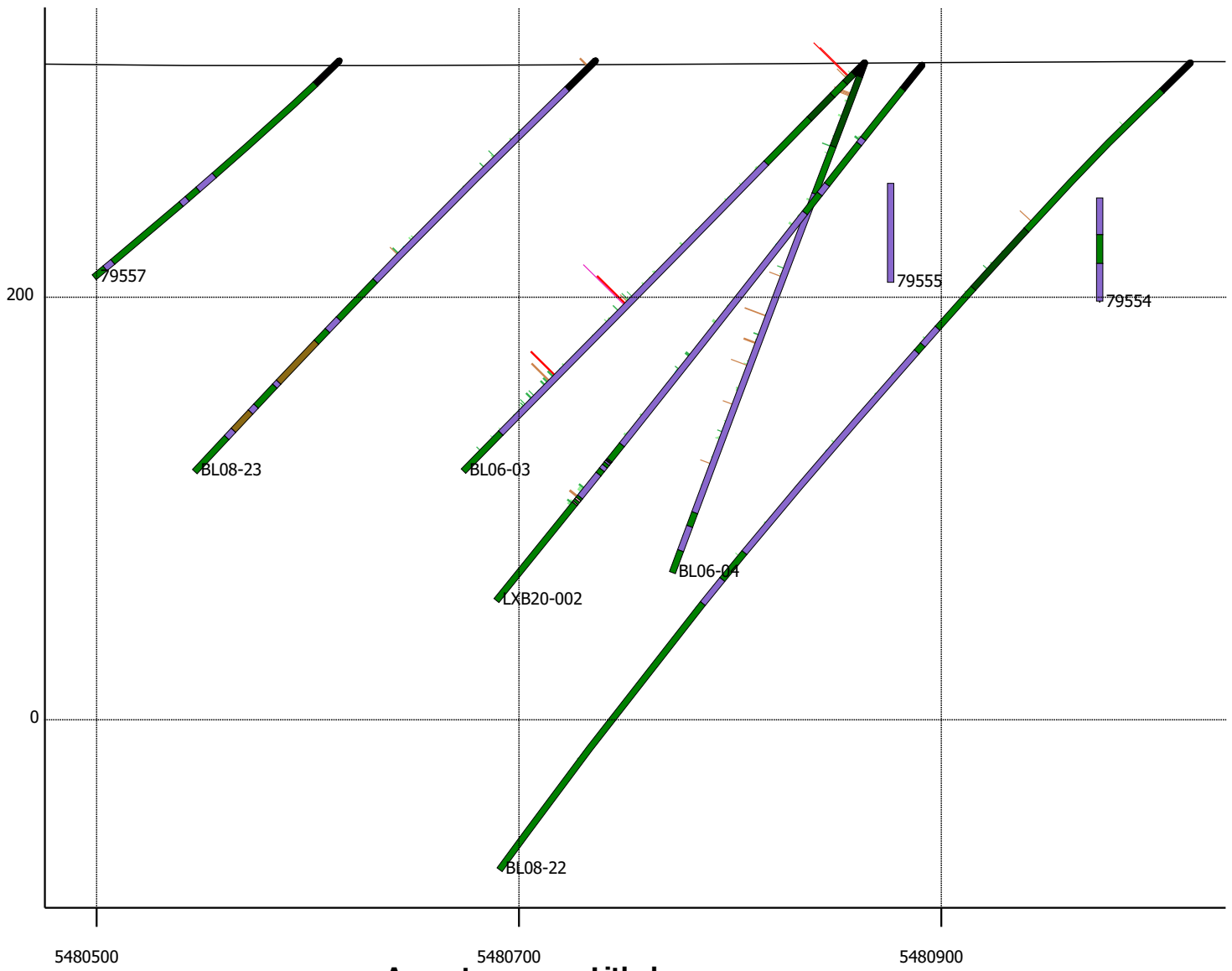
0m 200m

Location

S: 564800, 5480286

N: 564800, 5481035

Section 565000E, Looking West



Au_g_t

- ≤ 0
- ≤ 0.1
- ≤ 0.2
- ≤ 0.5
- ≤ 1
- ≤ 5
- ≤ 25
- > 25

Lithology

- Chert
- Felsic Intrusions
- Felsics
- Mafic Intrusions
- Mafics
- Overburden
- Porphyry
- Schist
- Seds
- Structure
- Veins

Scale: 1:3,000

Vertical exaggeration: 1x

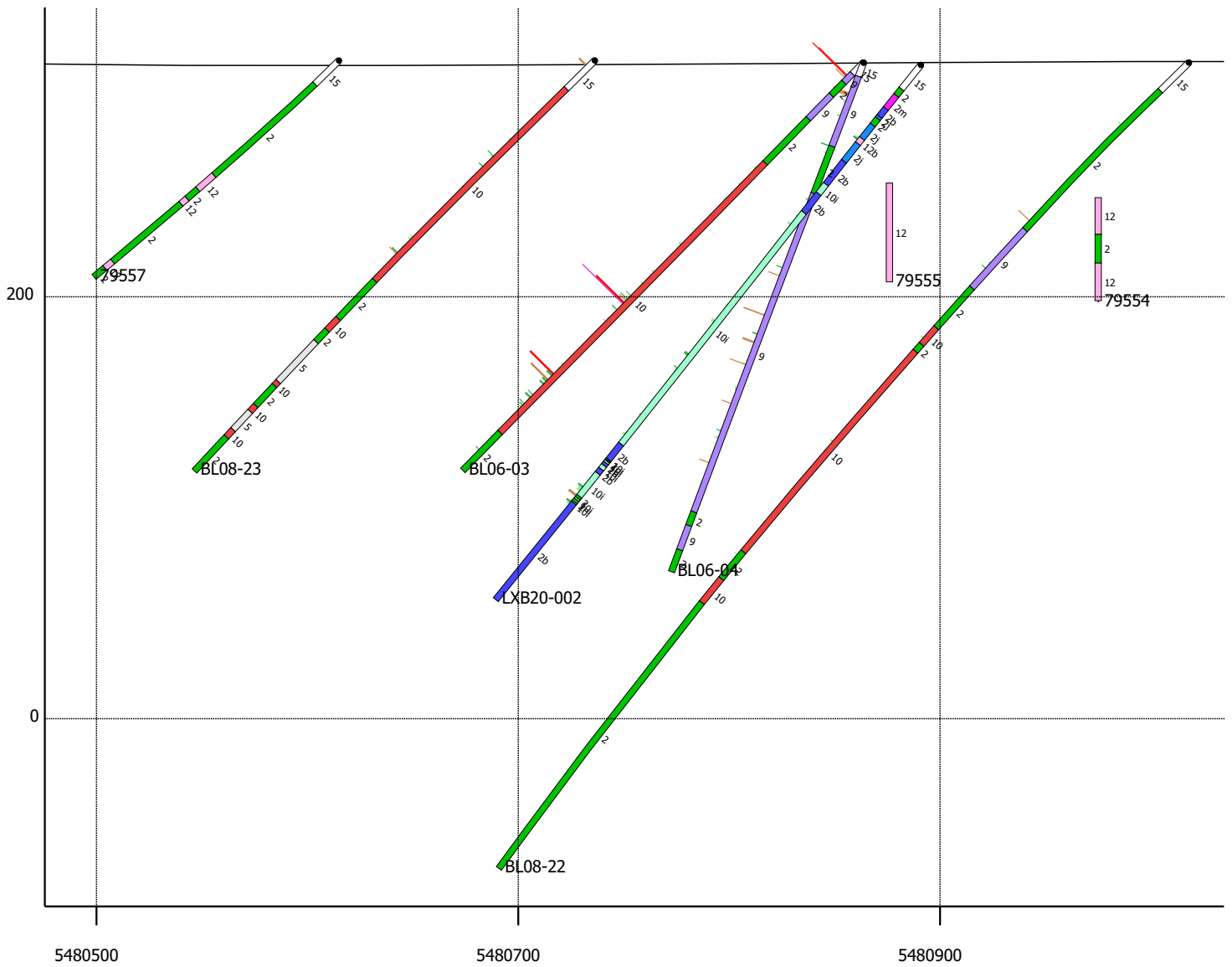
0m 200m

Location

S: 565000, 5480475

N: 565000, 5481035

Section 565000E, Looking West



Au_g_t

≤ 0	≤ 1		
≤ 0.1	≤ 5		
≤ 0.2	≤ 25		
≤ 0.5	> 25		

Primary_Lithology

1	7	15	13a	3a	5d	9a	2m	
2	9	16	13b	4i	6f	9b		
3	10	10a	13c	4j	7d	10i		
4	12	10b	2a	4m	7a	16a		
5	13	12a	2i	5b	7e	2b		
6	14	12b	2l	5f	7h	2j		

Scale: 1:3,000

Vertical exaggeration: 1x

0m 200m

Location

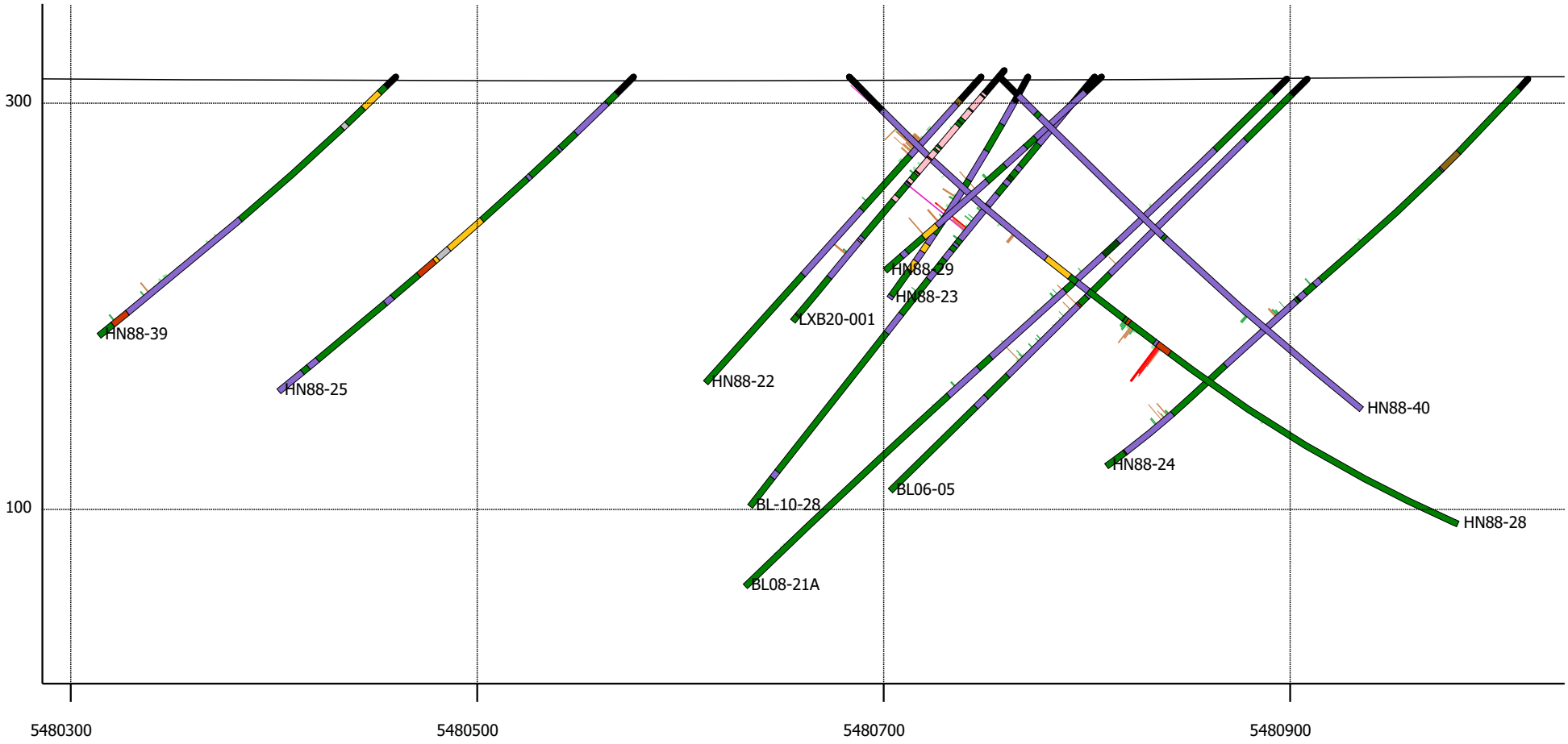
S: 565000, 5480475

N: 565000, 5481035

Section 564800E, Looking West

S

N



Au_g_t

- ≤ 0
- ≤ 0.1
- ≤ 0.2
- ≤ 0.5
- ≤ 1
- ≤ 5
- ≤ 25
- > 25

Lithology

- Chert
- Felsic Intrusions
- Felsics
- Mafic Intrusions
- Mafics
- Overburden
- Porphyry
- Schist
- Seds
- Structure
- Veins

Scale: 1:3,000

Vertical exaggeration: 1x

0m 200m

Location

S: 564800, 5480286

N: 564800, 5481035

APPENDIX C – ASSAY CERTIFICATES

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE TM20301694

This report is for 105 samples of Drill Core submitted to our lab in Timmins, ON, Canada on 18-DEC-2020.

The following have access to data associated with this certificate:

IAN CAMPBELL	ADAM FINDLEY	ALAN SEXTON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
B287138		3.35	<0.005	<0.5	7.05	<5	180	0.7	2	4.25	0.9	25	39	165	6.00	20
B287139		2.11	0.006	<0.5	7.29	<5	180	0.7	2	4.80	<0.5	14	23	78	5.30	20
B287140		0.06	1.255	<0.5	7.25	16	90	<0.5	<2	7.77	<0.5	46	171	165	7.88	20
B287141		3.09	0.030	0.6	6.56	5	170	1.0	2	2.31	<0.5	8	31	286	3.80	20
B287142		3.37	0.029	0.5	6.93	<5	150	0.8	<2	7.56	<0.5	25	82	96	6.70	20
B287143		2.47	0.024	0.9	7.69	5	90	0.8	3	9.75	0.6	65	173	322	11.70	20
B287144		2.03	<0.005	<0.5	7.53	<5	180	<0.5	<2	6.88	0.5	59	188	87	12.00	20
B287145		2.94	0.016	<0.5	7.40	<5	600	0.6	<2	3.76	<0.5	18	39	143	4.20	20
B287146		2.21	<0.005	<0.5	8.00	<5	90	<0.5	<2	8.91	<0.5	67	176	111	10.80	20
B287147		2.18	0.081	<0.5	7.72	<5	290	0.9	<2	3.05	<0.5	15	22	40	4.46	20
B287148		2.06	0.335	1.8	6.91	<5	540	1.4	<2	2.09	<0.5	8	11	34	1.75	20
B287149		2.29	0.586	1.7	7.59	<5	760	1.7	<2	2.06	<0.5	5	10	26	1.47	20
B287150		1.15	<0.005	<0.5	0.41	<5	60	<0.5	3	32.6	<0.5	1	2	3	0.16	<10
B287151		2.30	0.170	0.8	7.96	<5	740	1.7	<2	2.04	<0.5	6	9	24	1.71	20
B287152		2.21	0.058	0.5	7.39	<5	370	0.9	<2	3.00	<0.5	16	21	41	4.11	20
B287153		2.13	<0.005	<0.5	7.66	<5	290	0.8	<2	4.43	<0.5	17	23	33	4.61	20
B287154		3.03	0.020	<0.5	7.79	5	370	0.6	2	1.67	<0.5	21	38	83	5.57	20
B287155		1.13	0.017	0.5	7.30	<5	150	0.5	<2	6.30	<0.5	45	228	89	5.38	20
B287156		3.00	0.014	<0.5	8.52	6	140	0.6	<2	7.43	<0.5	44	169	89	5.13	20
B287157		3.47	0.014	<0.5	8.39	<5	120	0.6	<2	7.93	<0.5	45	156	103	5.04	20
B287158		3.44	0.099	<0.5	8.38	5	200	0.5	4	7.27	<0.5	45	159	88	5.54	20
B287159		3.30	0.010	<0.5	8.55	<5	110	0.5	<2	7.26	<0.5	65	166	98	5.26	20
B287160		0.06	8.99	1.3	6.36	35	240	<0.5	5	5.79	<0.5	42	272	145	7.18	20
B287161		3.60	0.015	<0.5	8.60	<5	110	0.5	<2	8.37	<0.5	60	153	81	4.85	20
B287162		3.46	0.033	<0.5	8.76	<5	110	0.6	2	7.67	<0.5	44	153	51	6.03	20
B287163		3.33	0.112	0.5	8.56	<5	90	0.5	<2	6.75	<0.5	42	154	118	4.88	20
B287164		3.30	0.008	0.5	8.64	7	120	0.5	2	6.45	<0.5	54	167	148	5.43	20
B287165		3.08	0.037	0.5	8.30	<5	270	0.7	<2	5.15	<0.5	45	260	101	5.15	20
B287166		2.05	0.024	<0.5	7.85	<5	1290	1.5	<2	1.78	<0.5	6	15	8	1.65	20
B287167		3.23	0.024	<0.5	7.92	5	1390	1.6	<2	1.62	<0.5	6	12	9	1.60	20
B287168		2.52	0.216	0.6	7.75	<5	1240	1.5	<2	1.55	<0.5	7	12	14	1.74	20
B287169		2.17	0.205	0.5	7.53	<5	1220	1.4	3	1.43	<0.5	7	12	8	1.75	20
B287170		1.34	<0.005	<0.5	0.09	<5	20	<0.5	2	33.9	<0.5	2	1	5	0.13	<10
B287171		2.11	0.036	<0.5	7.62	<5	1250	1.5	3	1.74	<0.5	6	11	6	1.61	20
B287172		2.45	0.089	<0.5	7.73	<5	220	0.6	3	5.34	<0.5	45	146	70	4.30	20
B287173		2.89	0.014	0.5	7.60	<5	100	0.6	2	7.20	<0.5	38	104	66	8.30	20
B287174		3.58	0.010	<0.5	7.88	<5	110	0.7	2	6.94	<0.5	41	106	102	8.74	20
B287175		3.61	0.026	<0.5	7.38	<5	100	0.7	<2	6.95	<0.5	38	101	81	8.42	20
B287176		3.53	0.040	<0.5	7.69	6	120	0.7	<2	6.52	<0.5	38	109	86	8.31	20
B287177		2.25	0.023	0.5	7.88	8	140	0.8	2	5.67	<0.5	43	116	119	9.21	20

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
B287138		1.15	10	0.70	1815	6	1.53	41	840	5	0.41	<5	14	152	<20	0.45
B287139		0.98	10	0.48	2440	8	1.81	27	780	2	0.15	<5	13	175	<20	0.42
B287140		0.24	<10	4.49	1345	<1	1.63	118	390	6	0.22	<5	41	191	<20	0.57
B287141		1.15	20	0.90	1025	4	2.33	11	330	5	0.44	<5	8	160	<20	0.21
B287142		0.80	10	0.70	2900	3	1.54	63	580	3	0.36	<5	22	153	<20	0.50
B287143		1.08	<10	2.17	2670	32	1.15	150	390	4	0.49	<5	45	225	<20	0.85
B287144		2.42	<10	4.69	1645	17	0.59	149	360	<2	0.19	<5	42	143	<20	0.79
B287145		1.68	10	1.28	855	14	2.48	35	590	<2	0.20	<5	13	174	<20	0.37
B287146		0.92	<10	3.41	2110	4	1.19	165	420	<2	0.26	<5	45	300	<20	0.85
B287147		1.53	10	1.53	545	4	3.38	24	830	6	0.24	<5	13	420	<20	0.42
B287148		0.87	20	0.52	244	5	4.19	7	690	5	0.75	<5	3	819	<20	0.16
B287149		1.15	20	0.48	211	<1	4.76	5	770	7	0.53	<5	2	1180	<20	0.17
B287150		0.15	<10	2.46	119	<1	0.22	<1	80	<2	<0.01	<5	<1	83	<20	<0.01
B287151		1.09	30	0.52	199	<1	4.79	5	790	11	0.68	<5	3	1275	<20	0.17
B287152		1.80	10	1.52	443	5	2.76	24	810	5	0.36	<5	12	470	<20	0.39
B287153		1.10	10	1.04	675	1	2.92	27	830	3	0.08	<5	13	285	<20	0.46
B287154		2.42	20	2.40	662	2	0.72	39	670	2	0.17	<5	13	88	<20	0.38
B287155		1.67	10	2.35	1050	20	1.60	172	770	5	0.39	<5	27	189	<20	0.53
B287156		1.20	10	1.18	1145	23	1.86	135	990	3	0.28	<5	32	213	<20	0.65
B287157		1.20	10	1.16	1220	11	1.60	123	970	<2	0.36	<5	31	204	<20	0.64
B287158		1.77	10	1.57	1010	9	1.29	137	950	<2	0.21	<5	31	206	<20	0.62
B287159		1.21	<10	1.46	955	2	1.39	146	1060	<2	0.18	<5	33	247	<20	0.67
B287160		0.47	<10	4.29	1185	3	1.90	137	410	20	0.48	<5	34	111	<20	0.53
B287161		0.92	10	1.52	1230	7	1.61	121	1050	<2	0.21	<5	34	244	<20	0.66
B287162		0.85	10	1.40	1455	9	1.88	110	1180	2	0.30	<5	32	219	<20	0.66
B287163		0.85	<10	1.04	1075	9	1.90	97	790	5	0.40	<5	32	209	<20	0.66
B287164		1.02	<10	1.19	1075	10	1.85	114	820	<2	0.55	<5	32	206	<20	0.68
B287165		2.32	<10	1.85	997	4	2.63	128	750	<2	0.47	<5	31	280	<20	0.60
B287166		1.72	20	0.59	220	<1	4.19	9	790	8	0.14	<5	3	1360	<20	0.19
B287167		2.47	20	0.56	198	<1	4.31	8	780	8	0.44	<5	3	1275	<20	0.17
B287168		2.29	20	0.53	207	<1	4.28	8	760	10	0.91	<5	3	1140	<20	0.16
B287169		2.20	20	0.50	195	4	4.25	7	720	12	1.04	<5	3	1035	<20	0.14
B287170		0.03	<10	2.15	124	<1	0.04	<1	80	<2	<0.01	<5	<1	87	<20	<0.01
B287171		1.68	20	0.55	214	<1	4.57	6	770	7	0.57	<5	3	1180	<20	0.17
B287172		2.18	<10	1.12	730	12	2.18	98	590	2	0.63	<5	29	280	<20	0.58
B287173		1.10	<10	2.26	1885	7	1.95	46	760	2	0.16	<5	23	373	<20	1.04
B287174		0.84	<10	2.19	2010	11	2.28	47	780	<2	0.36	<5	24	402	<20	1.09
B287175		0.84	<10	2.26	1845	2	2.09	46	740	<2	0.39	<5	23	411	<20	1.02
B287176		1.05	<10	2.24	1745	4	2.18	40	760	<2	0.30	<5	23	411	<20	1.07
B287177		1.43	<10	2.06	1760	4	2.42	52	840	<2	0.38	<5	24	372	<20	1.09

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	10	10	1	10	2
B287138		<10	<10	101	<10	440
B287139		<10	<10	89	<10	138
B287140		<10	<10	279	<10	86
B287141		10	<10	39	<10	88
B287142		<10	<10	180	<10	63
B287143		<10	<10	391	20	116
B287144		<10	<10	364	<10	116
B287145		<10	<10	96	<10	55
B287146		<10	<10	376	<10	97
B287147		<10	<10	94	<10	77
B287148		<10	<10	32	10	70
B287149		<10	<10	31	10	92
B287150		<10	<10	1	<10	5
B287151		<10	<10	32	10	65
B287152		<10	<10	88	<10	82
B287153		<10	<10	98	20	74
B287154		<10	<10	90	<10	109
B287155		<10	<10	166	10	94
B287156		<10	<10	199	20	86
B287157		<10	<10	201	<10	91
B287158		<10	<10	207	10	103
B287159		<10	<10	210	<10	116
B287160		<10	<10	249	<10	90
B287161		<10	<10	206	30	85
B287162		<10	<10	202	40	82
B287163		<10	<10	204	10	78
B287164		<10	<10	208	<10	109
B287165		<10	<10	199	40	110
B287166		<10	<10	37	<10	55
B287167		<10	<10	37	<10	44
B287168		<10	<10	38	<10	36
B287169		<10	<10	38	<10	32
B287170		<10	<10	1	<10	5
B287171		<10	<10	37	40	36
B287172		<10	<10	186	40	85
B287173		<10	<10	203	10	87
B287174		<10	<10	216	30	107
B287175		<10	<10	198	10	111
B287176		<10	<10	200	10	113
B287177		<10	<10	218	40	140

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
B287178		2.27	0.031	0.7	7.16	<5	110	0.7	2	6.26	<0.5	34	95	61	7.24	20
B287179		3.38	0.054	0.6	7.52	<5	270	1.0	3	5.63	<0.5	32	88	55	5.72	20
B287180		0.06	1.210	0.6	7.05	13	90	<0.5	4	7.58	<0.5	44	171	162	7.64	20
B287181		1.92	0.101	0.6	8.21	<5	450	0.9	<2	4.61	<0.5	36	133	73	7.69	30
B287182		2.02	0.071	<0.5	7.36	<5	1060	1.7	<2	1.52	<0.5	5	10	4	1.35	20
B287183		2.24	0.148	<0.5	7.27	<5	1020	1.7	<2	1.37	<0.5	4	10	4	1.35	20
B287184		2.97	0.261	<0.5	7.34	<5	1130	1.5	2	1.55	<0.5	6	10	4	1.46	20
B287185		2.09	0.029	<0.5	7.49	<5	1020	1.5	<2	1.65	<0.5	6	9	2	1.49	20
B287186		1.82	0.067	<0.5	7.17	<5	1180	1.3	<2	1.42	<0.5	5	9	1	1.45	20
B287187		1.60	0.062	<0.5	7.62	<5	1030	1.5	3	1.52	<0.5	7	10	3	1.66	20
B287188		1.96	0.076	<0.5	7.70	<5	1020	1.7	2	1.12	<0.5	7	10	3	1.82	20
B287189		2.34	0.456	1.0	7.52	<5	1070	1.5	<2	1.43	<0.5	7	11	2	1.77	20
B287190		1.34	<0.005	<0.5	0.07	<5	20	<0.5	3	34.9	<0.5	2	1	1	0.11	<10
B287191		2.11	0.081	<0.5	7.62	<5	1140	1.6	2	1.70	<0.5	9	11	3	1.72	20
B287192		1.61	0.082	<0.5	7.75	<5	1020	1.9	2	1.52	<0.5	6	10	2	1.65	20
B287193		2.86	0.110	0.8	7.80	<5	910	2.1	4	1.55	<0.5	7	10	2	1.61	20
B287194		2.83	0.047	<0.5	7.96	5	1290	1.9	2	1.51	<0.5	6	10	2	1.71	20
B287195		2.99	0.073	<0.5	7.28	<5	1180	1.5	<2	1.08	<0.5	5	10	4	1.42	20
B287196		3.22	0.021	<0.5	7.68	<5	1360	1.7	<2	1.57	<0.5	6	11	6	1.56	20
B287197		2.13	0.056	0.8	7.49	<5	1260	1.7	2	1.20	<0.5	5	10	13	1.55	20
B287198		1.58	0.088	1.2	7.86	<5	1040	1.8	<2	1.24	<0.5	7	9	5	1.64	20
B287199		1.91	0.079	0.9	7.78	<5	1300	1.8	<2	1.46	<0.5	6	11	7	1.66	20
B287200		0.06	8.82	1.4	6.33	31	210	<0.5	2	5.71	<0.5	41	267	144	7.17	20
B287201		1.92	0.241	0.9	7.63	<5	1410	1.6	2	1.79	<0.5	5	14	3	1.65	20
B287202		2.12	0.076	<0.5	7.58	<5	1260	1.7	3	1.53	<0.5	5	11	4	1.40	20
B287203		2.07	0.053	0.7	7.70	<5	1280	1.7	2	1.43	<0.5	5	11	3	1.46	20
B287204		1.98	0.041	0.8	7.56	<5	1160	1.6	5	1.19	<0.5	6	10	6	1.57	20
B287205		2.12	0.079	<0.5	7.90	<5	1250	1.4	<2	1.65	<0.5	4	11	10	1.53	20
B287206		1.76	0.186	0.7	8.10	<5	670	1.3	<2	1.11	<0.5	4	7	4	1.44	20
B287207		2.07	0.043	<0.5	7.06	<5	1220	1.3	<2	1.44	<0.5	3	11	12	1.36	20
B287208		2.95	0.019	<0.5	7.18	<5	1340	1.5	<2	1.62	<0.5	5	29	6	1.61	20
B287209		2.78	0.043	<0.5	7.55	<5	1490	1.4	<2	1.54	<0.5	4	10	2	1.45	20
B287210		1.50	<0.005	<0.5	0.14	<5	20	<0.5	<2	32.7	<0.5	<1	1	1	0.11	<10
B287211		1.95	0.006	<0.5	7.28	<5	1440	1.4	<2	1.77	<0.5	5	16	2	1.50	20
B287212		2.76	0.045	<0.5	7.13	<5	1370	1.4	2	1.60	<0.5	4	10	4	1.40	20
B287213		2.93	0.072	<0.5	7.46	<5	1350	1.5	<2	1.71	<0.5	5	27	4	1.79	20
B287214		2.00	0.029	<0.5	7.59	<5	1380	1.4	<2	1.57	<0.5	5	12	2	1.58	20
B287215		2.15	0.043	<0.5	7.49	<5	1220	1.3	<2	1.54	<0.5	4	13	2	1.61	20
B287216		2.83	0.018	<0.5	7.60	<5	1350	1.4	<2	1.55	<0.5	3	9	2	1.56	20
B287217		2.96	0.028	<0.5	7.50	<5	1310	1.4	<2	1.62	<0.5	5	10	5	1.53	20

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502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
B287178		1.03	<10	1.73	1685	6	1.96	42	770	2	0.36	<5	21	426	<20	0.90
B287179		1.27	10	1.45	1480	8	2.84	38	790	6	0.31	<5	18	533	<20	0.84
B287180		0.23	<10	4.36	1295	<1	1.59	115	380	6	0.21	<5	39	186	<20	0.56
B287181		3.33	10	2.93	1555	5	2.25	46	1150	5	0.23	<5	24	512	<20	1.17
B287182		2.21	20	0.44	209	<1	4.27	6	650	8	0.53	<5	2	1010	<20	0.14
B287183		2.44	20	0.40	184	1	4.14	4	650	5	0.72	<5	2	872	<20	0.13
B287184		2.09	30	0.47	205	11	4.28	4	730	10	0.75	<5	2	961	<20	0.15
B287185		1.86	20	0.49	222	13	4.66	5	790	4	0.67	<5	2	984	<20	0.15
B287186		2.13	20	0.49	186	<1	4.32	5	770	7	0.64	<5	2	941	<20	0.14
B287187		1.99	30	0.49	200	1	4.78	5	780	5	1.04	<5	2	879	<20	0.14
B287188		2.14	20	0.48	168	1	4.96	5	790	7	1.47	<5	2	728	<20	0.14
B287189		2.17	30	0.47	193	2	4.58	6	770	7	1.26	<5	2	846	<20	0.14
B287190		0.01	<10	1.73	120	<1	0.04	1	70	<2	0.01	<5	<1	86	<20	<0.01
B287191		2.00	30	0.55	224	9	4.65	7	860	5	0.89	<5	3	952	<20	0.16
B287192		1.99	30	0.50	213	3	4.91	7	820	10	1.07	<5	3	895	<20	0.14
B287193		1.74	30	0.51	231	3	5.33	6	840	3	0.88	<5	3	784	<20	0.14
B287194		2.54	30	0.56	218	<1	4.88	6	900	8	0.65	<5	3	942	<20	0.16
B287195		2.49	30	0.39	158	1	4.35	6	680	6	0.99	<5	2	653	<20	0.11
B287196		2.58	30	0.50	212	2	4.54	8	830	10	0.52	<5	3	924	<20	0.15
B287197		2.43	30	0.42	185	5	4.58	5	840	27	1.22	<5	3	638	<20	0.13
B287198		1.67	30	0.35	173	13	5.54	7	870	33	1.57	<5	3	550	<20	0.12
B287199		2.23	30	0.46	204	<1	4.74	6	870	22	1.33	<5	3	646	<20	0.13
B287200		0.47	<10	4.29	1165	3	1.90	136	410	16	0.48	<5	33	112	<20	0.52
B287201		2.27	20	0.54	243	<1	4.63	6	830	9	0.88	<5	3	822	<20	0.14
B287202		2.13	20	0.37	202	18	4.80	7	720	11	0.90	<5	2	819	<20	0.12
B287203		1.93	20	0.37	190	2	5.01	5	740	18	1.23	<5	2	778	<20	0.12
B287204		1.62	30	0.39	176	36	5.24	5	750	19	1.35	<5	2	702	<20	0.11
B287205		1.60	20	0.42	234	5	5.33	5	800	9	1.10	<5	2	836	<20	0.12
B287206		0.78	30	0.20	180	1	7.05	8	890	15	1.50	<5	2	595	<20	0.09
B287207		2.22	20	0.45	206	4	4.19	5	680	12	0.72	<5	2	842	<20	0.12
B287208		2.33	30	0.70	256	4	4.27	15	790	15	0.15	<5	3	1025	<20	0.16
B287209		2.73	20	0.50	214	1	4.42	6	750	9	0.23	<5	2	1145	<20	0.15
B287210		0.04	<10	2.10	113	<1	0.07	1	60	<2	<0.01	<5	<1	82	<20	0.01
B287211		2.51	20	0.57	215	<1	4.16	9	760	11	0.02	<5	2	1265	<20	0.16
B287212		2.60	20	0.49	212	<1	4.06	5	720	10	0.09	<5	2	1055	<20	0.15
B287213		2.71	20	0.77	238	<1	4.10	14	850	9	0.31	<5	4	1145	<20	0.18
B287214		2.85	30	0.56	184	<1	4.19	8	790	8	0.20	<5	3	1225	<20	0.17
B287215		2.75	30	0.52	192	<1	4.28	6	740	9	0.74	<5	2	1060	<20	0.14
B287216		3.02	30	0.53	195	<1	4.11	6	780	10	0.25	<5	2	1125	<20	0.16
B287217		2.64	20	0.53	206	<1	4.23	5	760	13	0.41	<5	2	1115	<20	0.15

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method Analyte Units LOD	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
B287178		<10	<10	183	40	95
B287179		<10	<10	160	20	81
B287180		<10	<10	269	<10	83
B287181		<10	<10	221	10	139
B287182		<10	<10	34	<10	23
B287183		<10	<10	30	<10	20
B287184		<10	<10	37	10	33
B287185		<10	<10	39	<10	23
B287186		<10	<10	39	<10	21
B287187		<10	<10	38	10	19
B287188		<10	<10	38	10	22
B287189		<10	<10	36	<10	20
B287190		<10	<10	2	<10	3
B287191		<10	<10	39	10	26
B287192		<10	<10	39	10	23
B287193		<10	<10	39	10	31
B287194		<10	<10	42	<10	40
B287195		<10	<10	32	10	22
B287196		<10	<10	38	<10	34
B287197		<10	<10	38	10	38
B287198		<10	<10	37	10	36
B287199		<10	<10	43	10	40
B287200		<10	<10	247	<10	89
B287201		<10	<10	35	10	31
B287202		<10	<10	33	10	22
B287203		<10	<10	35	10	27
B287204		<10	<10	33	10	33
B287205		<10	<10	28	<10	32
B287206		<10	<10	17	<10	19
B287207		<10	<10	33	<10	29
B287208		<10	<10	40	<10	45
B287209		<10	<10	34	<10	25
B287210		<10	<10	1	<10	8
B287211		<10	<10	32	<10	35
B287212		<10	<10	32	<10	29
B287213		<10	<10	44	<10	49
B287214		<10	<10	35	<10	43
B287215		<10	<10	35	10	31
B287216		<10	<10	37	<10	39
B287217		<10	<10	34	<10	41

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
B287218		2.42	0.127	<0.5	7.14	<5	1320	1.3	<2	1.36	<0.5	4	9	9	1.48	20
B287219		2.44	0.041	<0.5	7.46	<5	1320	1.4	<2	1.68	<0.5	3	10	3	1.56	20
B287220		0.05	1.205	<0.5	7.26	10	90	<0.5	<2	7.91	<0.5	45	167	174	8.09	20
B287221		1.99	0.036	<0.5	7.49	<5	1290	1.3	<2	1.64	<0.5	5	9	7	1.57	20
B287222		2.05	0.045	<0.5	7.63	<5	1420	1.4	2	1.63	<0.5	4	10	2	1.51	20
B287223		3.04	0.031	<0.5	7.25	<5	1280	1.4	2	1.76	<0.5	4	11	3	1.60	20
B287224		2.94	<0.005	<0.5	7.25	<5	1270	1.4	<2	1.52	<0.5	5	11	13	1.60	20
B287225		3.10	0.029	<0.5	7.40	<5	1330	1.5	<2	1.61	<0.5	4	10	6	1.58	20
B287226		1.28	0.048	<0.5	7.50	<5	1340	1.6	<2	1.59	<0.5	5	9	3	1.59	20
B287227		1.57	0.024	<0.5	7.24	<5	1300	1.6	<2	1.54	<0.5	4	9	3	1.55	20
B287228		1.61	0.008	<0.5	7.89	<5	1440	1.8	2	1.61	<0.5	4	10	6	1.64	20
B287229		1.93	0.038	<0.5	7.29	<5	1200	1.3	2	1.47	<0.5	4	11	2	1.50	20
B287230		1.29	<0.005	<0.5	0.07	<5	20	<0.5	2	35.1	<0.5	<1	1	1	0.10	<10
B287231		3.09	0.040	<0.5	7.13	<5	1290	1.2	3	1.44	<0.5	3	10	8	1.43	20
B287232		3.39	0.038	<0.5	6.78	<5	1200	1.0	<2	1.27	<0.5	4	10	8	1.35	20
B287233		2.02	0.073	<0.5	7.07	<5	1210	1.0	<2	1.48	<0.5	4	9	7	1.44	20
B287234		1.81	0.062	<0.5	6.34	<5	1060	1.0	<2	1.24	<0.5	3	15	7	1.37	20
B287235		1.93	0.265	0.7	6.44	<5	1200	1.1	3	1.29	<0.5	3	11	5	1.38	20
B287236		2.00	0.064	<0.5	6.28	<5	1120	1.0	<2	1.29	<0.5	3	11	4	1.19	20
B287237		1.18	0.029	<0.5	6.98	<5	1270	1.3	<2	1.29	<0.5	4	12	11	1.50	20
B287238		1.23	0.016	<0.5	6.54	<5	1190	1.2	<2	1.13	<0.5	4	11	6	1.47	20
B287239		1.68	0.025	<0.5	6.12	<5	1020	1.0	3	0.96	<0.5	3	11	6	1.33	20
B287240		0.06	8.70	1.0	6.23	31	210	<0.5	<2	5.74	<0.5	39	259	147	7.22	20
B287241		1.99	0.005	<0.5	6.32	<5	1120	1.1	<2	1.27	<0.5	3	12	3	1.34	20
B287242		2.30	<0.005	<0.5	6.44	<5	1220	1.1	<2	1.17	<0.5	3	13	4	1.40	20

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
B287218		2.55	30	0.46	180	4	4.21	5	730	14	1.03	<5	2	860	<20	0.11
B287219		2.88	20	0.54	212	<1	4.13	5	760	14	0.48	<5	3	1110	<20	0.15
B287220		0.24	10	4.59	1330	1	1.68	121	380	6	0.23	<5	40	194	<20	0.59
B287221		2.61	30	0.54	198	<1	4.10	6	740	10	0.42	<5	3	1185	<20	0.15
B287222		3.00	30	0.57	187	<1	4.29	6	790	11	0.60	<5	3	1195	<20	0.16
B287223		2.62	20	0.57	223	<1	4.13	7	760	9	0.41	<5	3	1155	<20	0.16
B287224		2.65	30	0.57	209	1	4.17	6	790	14	0.51	<5	3	1125	<20	0.16
B287225		2.66	30	0.57	210	1	4.25	7	790	16	0.34	<5	3	1180	<20	0.17
B287226		2.72	30	0.54	203	<1	4.24	7	770	14	0.37	<5	2	1200	<20	0.17
B287227		2.44	20	0.53	179	<1	4.11	5	760	9	0.40	<5	2	1170	<20	0.16
B287228		2.75	30	0.58	205	<1	4.45	6	820	12	0.25	<5	3	1310	<20	0.19
B287229		2.80	20	0.50	186	<1	4.06	5	780	11	0.19	<5	2	1085	<20	0.15
B287230		0.02	<10	2.10	115	<1	0.03	2	90	<2	0.01	<5	<1	91	<20	<0.01
B287231		2.73	30	0.44	187	<1	3.85	6	720	11	0.72	<5	2	856	<20	0.12
B287232		2.92	20	0.42	164	<1	3.52	4	670	12	0.54	<5	2	836	<20	0.11
B287233		2.67	20	0.46	184	<1	3.76	5	690	14	0.56	5	2	922	<20	0.13
B287234		2.50	20	0.42	169	<1	3.41	4	660	10	0.84	<5	2	664	<20	0.11
B287235		2.64	20	0.42	146	<1	3.18	4	670	22	0.89	<5	2	801	<20	0.12
B287236		2.71	20	0.38	140	<1	3.17	4	650	8	0.56	<5	2	801	<20	0.11
B287237		2.84	30	0.45	172	<1	3.72	6	760	11	0.85	<5	2	816	<20	0.12
B287238		2.74	20	0.38	148	<1	3.64	5	690	13	1.14	<5	2	727	<20	0.10
B287239		2.45	20	0.34	139	1	3.40	5	650	22	1.05	<5	2	591	<20	0.09
B287240		0.46	10	4.30	1155	3	1.90	135	390	18	0.49	<5	33	109	<20	0.54
B287241		2.79	20	0.43	164	<1	3.12	5	660	11	0.19	<5	2	862	<20	0.12
B287242		2.96	20	0.44	166	<1	3.16	5	700	10	0.14	<5	2	873	<20	0.13

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

Sample Description	Method Analyte Units LOD	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
B287218		<10	<10	32	<10	26
B287219		<10	<10	37	<10	38
B287220		<10	<10	277	<10	87
B287221		<10	<10	35	<10	38
B287222		<10	<10	37	20	31
B287223		<10	<10	37	30	39
B287224		<10	<10	37	<10	46
B287225		<10	<10	36	<10	48
B287226		<10	<10	34	<10	43
B287227		<10	<10	34	<10	38
B287228		10	<10	36	<10	52
B287229		<10	<10	34	<10	42
B287230		<10	<10	1	<10	4
B287231		<10	<10	31	<10	33
B287232		<10	<10	31	<10	37
B287233		<10	<10	33	<10	36
B287234		<10	<10	30	10	32
B287235		<10	<10	32	<10	34
B287236		<10	<10	27	<10	23
B287237		<10	<10	34	<10	35
B287238		<10	<10	33	<10	23
B287239		<10	<10	29	20	29
B287240		<10	<10	240	<10	90
B287241		<10	<10	31	<10	45
B287242		<10	<10	34	<10	43

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502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20301694

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
Au-AA23	ME-ICP61	

Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

Applies to Method:			
CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE TM20302764

This report is for 113 samples of Drill Core submitted to our lab in Timmins, ON, Canada on 21-DEC-2020.

The following have access to data associated with this certificate:

IAN CAMPBELL	ADAM FINDLEY	ALAN SEXTON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
B287243		2.89	0.022	<0.5	6.87	<5	1150	1.1	<2	1.36	<0.5	4	17	6	1.30	20
B287244		2.81	0.027	<0.5	7.99	<5	1430	1.3	<2	1.75	<0.5	4	22	12	1.45	20
B287245		2.92	0.440	0.5	7.29	<5	1180	1.2	<2	1.65	<0.5	5	20	8	1.52	20
B287246		2.85	0.090	<0.5	6.91	<5	1150	1.2	<2	1.21	<0.5	4	15	14	1.42	20
B287247		2.92	0.034	<0.5	6.83	<5	1180	1.1	<2	1.27	<0.5	4	17	12	1.34	20
B287248		1.89	0.019	<0.5	6.17	<5	1080	0.9	<2	1.16	<0.5	3	14	6	1.23	20
B287249		1.28	0.035	<0.5	6.29	<5	1120	1.0	<2	1.21	<0.5	2	15	7	1.26	20
B287250		1.38	<0.005	<0.5	0.09	<5	20	<0.5	<2	34.0	<0.5	<1	4	<1	0.11	<10
B287251		1.94	0.042	<0.5	6.51	<5	1180	1.0	<2	1.03	<0.5	3	15	10	1.32	20
B287252		1.85	0.021	<0.5	5.40	<5	940	0.8	<2	0.92	<0.5	2	17	5	1.07	20
B287253		2.64	0.123	<0.5	5.84	<5	980	0.9	<2	1.21	<0.5	4	21	4	1.32	20
B287254		2.76	0.011	<0.5	6.59	<5	1060	1.1	<2	1.34	<0.5	3	24	4	1.36	20
B287255		1.88	0.010	<0.5	6.76	<5	1190	1.2	<2	1.49	<0.5	5	19	6	1.55	20
B287256		1.95	0.018	<0.5	6.90	<5	1220	1.1	<2	1.44	<0.5	4	23	10	1.54	20
B287257		2.34	0.199	<0.5	6.44	<5	1090	1.1	<2	0.99	<0.5	3	13	15	1.31	20
B287258		2.60	0.082	<0.5	6.83	<5	1190	1.1	<2	1.54	<0.5	4	15	5	1.53	20
B287259		3.13	0.057	<0.5	6.96	<5	1200	1.2	<2	1.46	<0.5	4	16	3	1.41	20
B287260		0.06	1.185	<0.5	7.34	11	90	<0.5	7	7.91	0.9	45	187	165	7.77	20
B287261		3.07	0.069	<0.5	6.18	<5	1080	1.1	<2	1.38	<0.5	4	18	3	1.24	20
B287262		2.85	0.126	<0.5	7.00	<5	1330	1.1	<2	1.74	<0.5	3	13	5	1.29	20
B287263		3.07	0.534	0.9	6.63	<5	1140	1.0	<2	1.40	<0.5	2	18	14	1.26	20
B287264		2.14	0.080	<0.5	6.89	<5	1200	1.2	<2	1.34	<0.5	3	16	7	1.28	20
B287265		1.49	0.120	<0.5	7.48	<5	1320	1.4	2	1.59	<0.5	4	19	4	1.45	20
B287266		3.00	0.106	<0.5	7.20	<5	1220	1.3	<2	1.57	<0.5	4	14	4	1.42	20
B287267		2.96	0.053	<0.5	7.28	<5	1210	1.3	<2	1.56	<0.5	4	13	2	1.41	20
B287268		1.98	0.083	<0.5	7.31	<5	1420	1.3	<2	1.66	<0.5	4	14	2	1.48	20
B287269		2.31	0.132	<0.5	7.11	<5	1260	1.4	<2	1.56	<0.5	4	16	2	1.40	20
B287270		1.30	<0.005	<0.5	0.07	<5	20	<0.5	<2	31.8	<0.5	<1	1	1	0.12	<10
B287271		1.11	0.514	0.5	5.79	<5	790	1.0	2	2.04	<0.5	3	10	1	1.10	20
B287272		1.96	0.279	<0.5	6.95	<5	1370	1.3	2	1.52	<0.5	4	13	2	1.38	20
B287273		2.40	0.244	<0.5	7.51	<5	1350	1.4	<2	1.59	<0.5	3	14	4	1.40	20
B287274		3.12	0.124	<0.5	7.52	<5	1340	1.4	<2	1.63	<0.5	4	14	3	1.47	20
B287275		2.66	0.076	0.5	7.77	<5	1420	1.5	<2	1.66	<0.5	4	14	7	1.44	20
B287276		2.86	0.092	0.5	7.63	<5	1290	1.4	<2	1.59	<0.5	5	12	9	1.46	20
B287277		3.07	0.033	<0.5	7.43	<5	1340	1.4	<2	1.59	<0.5	5	27	2	1.44	20
B287278		2.93	0.202	<0.5	7.57	<5	1310	1.4	<2	1.64	<0.5	5	14	2	1.53	20
B287279		2.72	0.057	<0.5	7.28	<5	1260	1.3	<2	1.49	<0.5	4	14	1	1.40	20
B287280		0.06	8.65	1.6	6.11	31	210	<0.5	<2	5.46	0.5	38	261	138	6.93	20
B287281		1.80	0.037	<0.5	7.57	<5	1210	1.6	<2	1.11	<0.5	5	18	7	1.64	20
B287282		2.06	0.112	0.5	7.54	<5	1330	1.4	<2	1.52	<0.5	4	12	9	1.45	20

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
B287243		2.53	20	0.46	169	1	3.29	6	650	8	0.20	<5	2	964	<20	0.13
B287244		2.32	20	0.56	203	1	4.23	8	700	13	0.18	<5	3	1265	<20	0.16
B287245		2.17	20	0.52	189	<1	3.79	7	690	7	0.65	<5	2	950	<20	0.14
B287246		2.33	20	0.56	168	<1	3.42	5	730	9	0.55	<5	2	786	<20	0.14
B287247		2.39	20	0.52	167	1	3.32	7	700	12	0.43	<5	2	834	<20	0.14
B287248		2.63	20	0.44	149	<1	2.84	4	640	8	0.41	<5	2	687	<20	0.13
B287249		2.35	20	0.46	165	1	2.99	4	670	14	0.36	<5	2	840	<20	0.13
B287250		0.02	<10	1.37	117	<1	0.03	<1	70	<2	<0.01	<5	<1	88	<20	0.01
B287251		2.66	20	0.46	144	1	3.12	4	670	12	0.71	<5	2	680	<20	0.13
B287252		2.29	20	0.40	132	<1	2.40	4	550	9	0.23	<5	2	572	<20	0.12
B287253		2.33	20	0.41	147	<1	2.68	4	620	5	0.63	<5	2	611	<20	0.13
B287254		2.24	20	0.55	175	1	3.39	8	690	10	0.29	<5	3	787	<20	0.15
B287255		2.38	30	0.60	204	<1	3.27	7	820	10	0.24	<5	3	996	<20	0.17
B287256		2.56	30	0.57	199	1	3.33	7	800	13	0.45	<5	3	812	<20	0.18
B287257		2.21	20	0.48	159	3	3.46	6	760	14	0.70	<5	2	803	<20	0.13
B287258		2.44	20	0.53	190	1	3.31	5	780	8	0.46	<5	3	966	<20	0.16
B287259		2.56	20	0.49	179	1	3.37	6	720	14	0.39	<5	2	1065	<20	0.15
B287260		0.23	10	4.58	1345	<1	1.62	114	400	6	0.22	<5	42	195	<20	0.58
B287261		2.15	20	0.41	178	<1	3.09	6	590	7	0.49	<5	2	831	<20	0.13
B287262		2.51	20	0.46	186	<1	3.32	4	660	10	0.31	<5	2	931	<20	0.15
B287263		2.44	20	0.43	161	<1	3.15	6	620	10	0.43	<5	2	786	<20	0.14
B287264		2.31	20	0.43	168	1	3.34	4	620	12	0.33	<5	2	1020	<20	0.14
B287265		2.53	20	0.52	218	<1	3.67	6	730	9	0.57	<5	2	1080	<20	0.16
B287266		2.53	20	0.48	177	2	3.82	7	690	9	0.54	<5	2	1110	<20	0.14
B287267		2.68	20	0.46	184	1	3.78	7	680	9	0.63	<5	2	1050	<20	0.15
B287268		2.78	20	0.49	178	2	3.88	7	720	9	0.87	<5	2	1205	<20	0.15
B287269		2.75	20	0.45	206	1	3.87	5	660	9	0.81	<5	2	1065	<20	0.14
B287270		0.02	<10	2.40	118	<1	0.03	<1	70	2	<0.01	<5	<1	78	<20	<0.01
B287271		1.64	20	0.35	288	13	3.66	4	540	7	0.85	<5	2	824	<20	0.11
B287272		2.72	20	0.45	156	<1	3.62	5	670	6	0.81	<5	2	1145	<20	0.14
B287273		2.68	20	0.49	171	<1	3.80	6	710	8	0.50	<5	2	1240	<20	0.16
B287274		2.59	20	0.51	173	2	3.90	7	730	11	0.43	<5	2	1200	<20	0.16
B287275		2.67	20	0.52	182	<1	3.97	5	740	12	0.22	<5	2	1280	<20	0.18
B287276		2.50	20	0.49	176	1	4.05	6	730	10	0.28	<5	2	1175	<20	0.17
B287277		2.48	20	0.48	171	1	3.90	5	720	11	0.16	<5	2	1260	<20	0.17
B287278		2.55	20	0.49	188	17	4.09	8	730	10	0.38	<5	2	1180	<20	0.16
B287279		2.66	20	0.47	165	1	3.78	6	680	8	0.19	<5	2	1115	<20	0.15
B287280		0.45	<10	4.12	1105	3	1.84	128	380	16	0.46	7	32	102	<20	0.51
B287281		2.52	30	0.52	156	<1	4.45	8	750	14	0.96	<5	3	881	<20	0.14
B287282		2.62	20	0.50	170	5	4.00	5	720	10	0.37	<5	2	1145	<20	0.15

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	10	10	1	10	2
B287243		<10	<10	31	<10	43
B287244		<10	<10	34	<10	50
B287245		<10	<10	30	<10	35
B287246		<10	<10	34	<10	34
B287247		<10	<10	33	<10	38
B287248		<10	<10	30	<10	36
B287249		<10	<10	30	<10	40
B287250		10	<10	1	<10	3
B287251		<10	<10	31	<10	32
B287252		<10	<10	25	<10	30
B287253		<10	<10	31	<10	22
B287254		<10	<10	33	<10	34
B287255		<10	<10	37	<10	44
B287256		<10	<10	36	<10	43
B287257		<10	<10	34	<10	33
B287258		<10	<10	33	<10	39
B287259		<10	<10	32	<10	34
B287260		10	<10	282	<10	87
B287261		<10	<10	28	40	23
B287262		<10	<10	31	<10	34
B287263		<10	<10	28	<10	31
B287264		<10	<10	28	10	34
B287265		<10	<10	34	20	21
B287266		<10	<10	31	10	26
B287267		<10	<10	31	10	20
B287268		<10	<10	33	10	18
B287269		<10	<10	32	20	15
B287270		<10	<10	<1	<10	5
B287271		<10	<10	14	70	6
B287272		<10	<10	30	10	15
B287273		<10	<10	33	10	23
B287274		<10	<10	33	10	32
B287275		<10	<10	33	10	41
B287276		<10	<10	33	50	41
B287277		<10	<10	31	10	38
B287278		<10	<10	32	10	38
B287279		<10	<10	31	10	37
B287280		<10	<10	234	<10	85
B287281		<10	<10	37	10	32
B287282		<10	<10	31	10	37

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
B287283		2.19	0.017	<0.5	7.41	<5	1330	1.5	<2	1.53	<0.5	4	14	4	1.44	20
B287284		1.57	0.055	<0.5	7.43	<5	1300	1.5	<2	1.56	<0.5	4	13	9	1.46	20
B287285		1.54	0.044	<0.5	6.70	<5	470	1.3	<2	1.36	<0.5	2	15	5	1.10	20
B287286		2.04	0.051	<0.5	7.69	<5	1320	1.5	<2	1.59	<0.5	3	17	4	1.47	20
B287287		2.53	0.135	<0.5	7.70	<5	1420	1.5	<2	1.60	<0.5	5	12	11	1.55	20
B287288		2.87	0.008	<0.5	8.09	<5	1420	1.5	<2	1.76	<0.5	4	17	13	1.59	20
B287289		3.14	0.007	<0.5	7.77	<5	1450	1.5	<2	1.58	<0.5	4	15	10	1.50	20
B287290		1.50	<0.005	<0.5	0.36	<5	50	<0.5	2	31.3	<0.5	<1	1	1	0.12	10
B287291		1.37	0.052	4.4	6.84	<5	980	1.5	11	1.08	<0.5	3	9	17	1.32	20
B287292		2.03	0.033	1.3	7.73	<5	1430	1.6	2	1.27	<0.5	4	12	14	1.41	20
B287293		1.89	0.015	0.8	7.64	<5	1400	1.9	2	1.27	<0.5	4	11	9	1.32	20
B287294		1.78	0.036	0.6	7.26	<5	1390	1.6	<2	1.29	<0.5	4	21	20	1.34	20
B287295		2.08	0.081	1.2	7.31	<5	1180	1.5	2	1.18	<0.5	5	14	23	1.40	20
B287296		1.72	0.079	1.0	7.32	<5	980	1.5	<2	1.14	<0.5	6	43	12	1.66	20
B287297		2.12	0.327	1.9	7.67	<5	1380	1.5	2	1.37	<0.5	5	10	18	1.45	20
B287298		2.01	0.026	0.6	7.62	<5	1630	1.4	<2	1.32	<0.5	4	11	16	1.39	20
B287299		2.19	0.041	<0.5	7.31	<5	1380	1.4	<2	1.47	<0.5	4	12	5	1.37	20
B287300		0.06	8.73	1.6	6.00	30	200	<0.5	<2	5.44	0.6	38	266	135	6.84	20
B287301		1.82	0.027	<0.5	7.14	<5	1270	1.3	<2	1.33	<0.5	4	12	5	1.35	20
B287302		2.02	0.109	0.5	7.02	<5	1280	1.3	2	1.49	<0.5	5	14	8	1.39	20
B287303		2.00	0.082	0.5	6.78	<5	1280	1.1	2	1.38	<0.5	4	12	2	1.27	20
B287304		1.83	0.017	<0.5	4.80	<5	840	0.8	<2	1.00	<0.5	3	15	2	1.02	10
B287305		1.97	0.033	<0.5	5.64	<5	1030	0.9	<2	1.11	<0.5	3	12	1	1.20	20
B287306		1.89	0.054	<0.5	7.04	<5	1250	1.3	<2	1.50	<0.5	5	13	2	1.54	20
B287307		1.99	0.056	<0.5	7.35	<5	1390	1.3	<2	1.68	<0.5	4	11	6	1.42	20
B287308		1.54	0.087	<0.5	6.90	<5	1260	1.2	2	1.65	<0.5	7	12	3	2.08	20
B287309		2.02	0.260	0.7	7.97	<5	1320	1.7	4	2.82	<0.5	8	16	20	2.50	20
B287310		1.66	<0.005	<0.5	0.07	<5	30	<0.5	<2	31.6	<0.5	<1	1	<1	0.14	<10
B287311		2.37	0.361	0.9	7.52	<5	1260	1.6	2	2.78	<0.5	8	15	13	2.44	20
B287312		1.79	0.058	<0.5	7.96	<5	1250	1.6	2	2.79	<0.5	7	16	10	2.43	20
B287313		1.76	0.044	0.5	7.30	<5	1240	1.4	2	3.08	<0.5	7	14	10	2.38	20
B287314		1.99	0.068	0.5	7.83	<5	1240	1.6	<2	2.69	<0.5	7	14	8	2.42	20
B287315		2.58	0.135	<0.5	8.29	<5	1140	1.7	<2	3.01	<0.5	8	21	13	2.56	20
B287316		2.57	0.059	0.6	7.78	<5	180	0.7	<2	6.30	<0.5	33	103	56	6.88	20
B287317		3.35	0.031	0.6	7.94	<5	170	0.9	<2	6.16	<0.5	35	114	62	6.62	20
B287318		3.24	0.051	0.6	7.93	<5	120	0.9	<2	5.52	<0.5	33	122	43	6.19	20
B287319		3.58	0.016	0.5	8.00	<5	110	0.9	<2	6.55	<0.5	33	128	45	6.76	20
B287320		0.06	1.215	0.7	7.14	6	90	<0.5	<2	7.44	<0.5	43	168	163	7.79	20
B287321		2.18	0.017	0.5	7.95	<5	130	0.8	<2	6.43	<0.5	38	130	49	8.29	20
B287322		3.32	0.025	0.5	7.57	<5	170	0.8	<2	5.72	<0.5	30	116	88	7.54	20

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VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
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CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
B287283		2.59	20	0.49	175	<1	4.12	5	720	9	0.44	<5	2	1160	<20	0.15
B287284		2.64	20	0.52	201	<1	4.00	6	730	12	0.37	<5	2	1035	<20	0.15
B287285		1.13	20	0.36	195	1	4.85	4	650	10	0.80	<5	2	679	<20	0.12
B287286		2.61	20	0.49	193	<1	4.33	7	730	9	0.71	<5	2	1045	<20	0.15
B287287		2.57	20	0.51	192	39	4.24	6	750	11	0.59	<5	2	1165	<20	0.15
B287288		2.63	20	0.55	199	<1	4.33	8	800	17	0.29	<5	3	1280	<20	0.17
B287289		2.58	20	0.51	169	<1	4.09	5	750	15	0.29	<5	2	1265	<20	0.16
B287290		0.12	<10	1.48	105	<1	0.20	<1	70	2	<0.01	<5	<1	79	<20	<0.01
B287291		1.70	20	0.38	132	3	4.28	4	590	37	1.00	<5	2	731	<20	0.10
B287292		2.32	20	0.43	153	<1	4.59	5	660	26	0.90	<5	2	964	<20	0.11
B287293		2.31	20	0.45	148	1	4.68	5	650	22	0.91	<5	2	1000	<20	0.12
B287294		2.05	20	0.47	164	<1	4.30	7	640	15	0.85	<5	3	866	<20	0.12
B287295		2.01	20	0.38	148	8	4.53	5	640	23	1.08	<5	2	786	<20	0.10
B287296		1.88	30	0.40	150	1	4.68	7	710	22	1.37	<5	2	679	<20	0.11
B287297		2.30	20	0.41	163	<1	4.37	7	750	30	1.06	<5	2	921	<20	0.12
B287298		2.77	30	0.46	169	<1	4.15	5	760	22	0.83	<5	2	945	<20	0.13
B287299		2.77	20	0.46	178	<1	3.88	7	730	14	0.36	<5	2	1100	<20	0.14
B287300		0.44	<10	4.03	1095	3	1.81	127	380	16	0.45	5	32	100	<20	0.50
B287301		2.21	20	0.43	175	<1	4.31	5	730	10	0.76	<5	2	904	<20	0.13
B287302		2.35	20	0.40	184	33	4.24	3	720	12	0.86	<5	2	978	<20	0.12
B287303		2.54	20	0.42	159	<1	3.84	4	610	9	0.39	<5	2	1020	<20	0.12
B287304		2.02	20	0.30	124	<1	2.40	3	480	6	0.34	<5	1	608	<20	0.08
B287305		2.39	20	0.37	130	<1	2.87	2	550	5	0.46	<5	2	817	<20	0.11
B287306		2.47	20	0.48	179	8	3.96	4	720	8	0.91	<5	2	1045	<20	0.13
B287307		2.78	20	0.51	202	<1	3.96	4	780	10	0.62	<5	2	1070	<20	0.14
B287308		2.97	20	0.46	213	<1	3.66	7	700	13	1.80	<5	2	913	<20	0.12
B287309		2.71	20	0.90	449	1	3.77	7	1030	8	0.53	<5	5	1195	<20	0.22
B287310		0.02	<10	1.95	112	<1	0.04	5	70	<2	0.02	<5	<1	81	<20	<0.01
B287311		2.65	20	0.85	442	<1	3.66	6	1000	7	0.75	<5	5	1165	<20	0.21
B287312		2.32	30	0.94	458	<1	3.81	7	1030	6	0.52	<5	5	1110	<20	0.22
B287313		2.73	20	0.86	417	<1	3.66	5	1000	5	0.65	<5	5	865	<20	0.21
B287314		2.44	20	0.94	445	<1	3.64	4	1020	6	0.42	<5	5	1070	<20	0.23
B287315		1.59	30	0.94	483	<1	3.80	7	1080	8	0.14	<5	5	1300	<20	0.24
B287316		1.20	10	2.04	1515	6	2.41	36	780	2	0.22	<5	23	536	<20	1.05
B287317		1.52	10	2.09	1480	5	2.38	39	1000	2	0.22	<5	23	523	<20	1.09
B287318		1.22	10	2.10	1700	6	2.61	38	1270	2	0.24	<5	22	549	<20	1.11
B287319		0.77	10	1.65	2140	2	2.28	43	1260	<2	0.31	<5	23	405	<20	1.12
B287320		0.24	<10	4.35	1300	1	1.62	115	360	4	0.20	<5	39	183	<20	0.57
B287321		1.03	10	2.35	2730	2	2.39	44	1200	<2	0.29	5	23	387	<20	1.15
B287322		1.33	10	2.48	2420	9	2.33	42	1150	3	0.31	<5	21	503	<20	1.05

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	10	10	1	10	2
B287283		<10	<10	31	<10	38
B287284		<10	<10	34	10	41
B287285		<10	<10	20	420	14
B287286		<10	<10	33	70	26
B287287		<10	<10	33	10	41
B287288		<10	<10	34	<10	54
B287289		<10	<10	32	<10	45
B287290		<10	<10	<1	<10	3
B287291		<10	<10	27	<10	25
B287292		<10	<10	34	10	29
B287293		<10	<10	33	10	25
B287294		<10	<10	32	<10	30
B287295		<10	<10	30	100	27
B287296		<10	<10	29	10	26
B287297		<10	<10	32	10	61
B287298		<10	<10	33	10	35
B287299		<10	<10	30	20	36
B287300		<10	<10	234	<10	84
B287301		<10	<10	29	20	30
B287302		<10	<10	29	10	33
B287303		<10	<10	28	40	30
B287304		<10	<10	22	<10	22
B287305		<10	<10	26	<10	19
B287306		<10	<10	32	10	21
B287307		<10	<10	34	10	29
B287308		<10	<10	34	10	17
B287309		<10	<10	57	40	47
B287310		<10	<10	1	20	2
B287311		<10	<10	51	140	40
B287312		<10	<10	52	10	46
B287313		<10	<10	53	<10	41
B287314		<10	<10	53	10	52
B287315		<10	<10	54	<10	55
B287316		<10	<10	201	10	112
B287317		<10	<10	202	20	114
B287318		<10	<10	196	20	119
B287319		<10	<10	200	10	118
B287320		<10	<10	270	<10	85
B287321		<10	<10	206	10	135
B287322		10	<10	187	10	120

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE TM20295154

This report is for 137 samples of Drill Core submitted to our lab in Timmins, ON, Canada on 14-DEC-2020.

The following have access to data associated with this certificate:

IAN CAMPBELL	ADAM FINDLEY	ALAN SEXTON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid ICP-AES	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOD	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
B287001		2.09	<0.5	7.67	8	970	1.4	<2	1.25	<0.5	11	31	13	2.35	20	1.31
B287002		0.83	0.5	8.04	<5	740	0.8	<2	2.16	<0.5	34	119	140	7.55	20	3.31
B287003		1.80	<0.5	7.82	<5	1310	1.4	<2	0.92	<0.5	6	14	15	1.74	20	1.88
B287004		1.82	<0.5	8.04	<5	1400	1.5	<2	0.87	<0.5	6	14	9	2.48	20	2.48
B287005		1.69	<0.5	7.63	<5	1400	1.4	<2	0.61	<0.5	7	12	9	2.14	20	2.36
B287006		1.66	<0.5	7.66	<5	1380	1.4	<2	0.61	<0.5	8	13	9	1.94	20	2.67
B287007		1.55	<0.5	7.63	<5	1260	1.6	<2	0.62	<0.5	7	15	11	1.69	20	1.61
B287008		1.58	<0.5	7.57	<5	1380	1.2	<2	0.54	<0.5	6	12	66	1.63	20	2.17
B287009		2.39	<0.5	7.72	5	1260	1.3	<2	0.66	<0.5	6	16	38	1.88	20	1.81
B287010		1.10	<0.5	0.18	<5	30	<0.5	<2	31.6	<0.5	<1	4	<1	0.18	<10	0.04
B287011		1.54	<0.5	7.68	<5	1390	1.2	2	0.91	<0.5	6	12	14	1.83	20	1.67
B287012		1.03	<0.5	7.33	<5	1290	1.2	<2	2.29	<0.5	30	102	11	7.47	30	4.29
B287013		1.54	0.6	7.72	<5	1270	1.4	<2	1.56	<0.5	6	12	5	1.87	20	1.17
B287014		1.81	<0.5	7.48	5	1130	1.3	<2	2.65	<0.5	11	28	13	2.65	20	1.91
B287015		1.45	<0.5	7.68	<5	1440	1.4	2	1.42	<0.5	5	14	6	1.70	20	2.29
B287016		1.59	0.5	7.38	<5	1260	1.3	6	1.24	<0.5	5	14	9	1.68	20	1.70
B287017		2.43	<0.5	7.43	<5	1270	1.3	<2	1.35	<0.5	6	14	12	1.77	20	1.84
B287018		1.91	<0.5	7.40	<5	460	0.9	<2	6.91	<0.5	27	74	46	5.65	20	1.41
B287019		1.68	<0.5	7.30	<5	220	0.8	<2	5.78	<0.5	33	82	75	6.58	20	1.74
B287020		0.06	<0.5	7.05	10	90	<0.5	<2	7.57	0.5	44	169	162	7.62	20	0.23
B287021		0.96	<0.5	8.19	<5	480	1.3	<2	1.41	<0.5	8	11	6	2.28	20	0.50
B287022		1.95	<0.5	7.35	<5	470	0.8	<2	4.68	<0.5	29	68	46	6.43	20	2.23
B287023		1.99	<0.5	6.86	<5	300	0.8	<2	2.97	<0.5	15	21	23	4.01	20	1.85
B287024		2.48	<0.5	7.32	<5	1120	1.5	<2	1.77	<0.5	6	11	3	1.73	20	1.39
B287025		1.87	<0.5	7.62	<5	1240	1.5	3	1.62	<0.5	6	12	4	1.75	20	1.66
B287026		1.71	<0.5	7.32	<5	1300	1.5	<2	0.95	<0.5	5	10	5	1.83	20	1.99
B287027		1.80	<0.5	7.40	<5	1380	1.6	2	0.69	<0.5	6	10	2	1.87	20	2.14
B287028		1.83	<0.5	7.42	<5	1310	1.4	<2	0.99	<0.5	5	11	3	1.76	20	2.55
B287029		1.72	<0.5	7.37	<5	1520	1.5	2	1.07	<0.5	4	9	3	1.66	20	2.59
B287030		0.78	<0.5	0.48	<5	410	<0.5	<2	32.3	<0.5	<1	8	2	0.43	<10	0.15
B287031		1.82	<0.5	7.54	<5	1330	1.5	<2	0.72	<0.5	4	11	5	1.68	20	2.57
B287032		1.76	<0.5	7.29	<5	1530	1.5	<2	0.71	<0.5	6	10	5	1.72	20	2.47
B287033		1.84	<0.5	7.41	<5	1350	1.5	2	0.90	<0.5	5	14	11	1.74	20	2.48
B287034		1.49	<0.5	7.16	<5	1360	1.5	<2	0.74	<0.5	5	12	14	1.64	20	2.44
B287035		1.44	0.5	7.20	<5	1300	1.5	<2	0.95	<0.5	6	15	70	1.85	20	2.44
B287036		1.91	0.8	7.59	<5	1390	1.6	<2	0.62	<0.5	5	11	86	1.80	20	2.48
B287037		1.82	<0.5	7.24	<5	1340	1.5	3	0.53	<0.5	5	13	57	1.74	20	2.18
B287038		1.81	<0.5	7.55	<5	380	0.9	<2	4.03	<0.5	31	78	80	6.13	20	3.59
B287039		0.96	5.2	7.18	<5	580	1.2	11	1.00	<0.5	7	16	93	2.09	20	0.94
B287040		0.06	1.0	6.13	30	210	<0.5	<2	5.69	<0.5	37	265	146	7.11	10	0.46

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
	Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
B287001		30	0.84	240	1	4.60	21	1020	9	0.50	<5	6	1015	<20	0.24	<10
B287002		10	2.89	802	5	2.46	114	1780	10	0.05	<5	27	646	<20	0.73	10
B287003		30	0.62	130	1	4.28	8	940	12	0.26	<5	3	1275	<20	0.18	<10
B287004		30	0.61	1445	<1	4.10	7	920	11	0.33	<5	3	1310	<20	0.18	<10
B287005		30	0.59	461	<1	4.44	7	960	18	1.04	<5	3	1110	<20	0.16	<10
B287006		30	0.65	157	1	4.09	8	1150	6	0.71	<5	3	914	<20	0.19	<10
B287007		30	0.62	112	<1	4.65	7	920	15	0.84	<5	3	1120	<20	0.15	<10
B287008		20	0.53	106	1	4.20	4	870	10	0.55	<5	3	1035	<20	0.14	<10
B287009		30	0.58	165	1	4.56	7	880	8	0.93	<5	3	984	<20	0.15	<10
B287010		<10	2.16	119	<1	0.10	3	80	<2	<0.01	<5	<1	80	<20	<0.01	<10
B287011		30	0.59	168	1	4.56	7	900	7	0.94	<5	3	1095	<20	0.16	<10
B287012		10	2.85	743	1	1.41	106	1590	10	2.51	<5	23	507	<20	0.54	<10
B287013		30	0.59	244	6	4.94	8	860	13	1.14	<5	3	1105	<20	0.14	<10
B287014		20	0.89	414	3	4.20	23	1010	9	0.98	<5	7	992	<20	0.22	<10
B287015		20	0.57	200	1	4.37	6	870	11	0.77	<5	3	1165	<20	0.15	<10
B287016		30	0.53	187	4	4.63	6	850	8	1.11	<5	3	982	<20	0.13	<10
B287017		30	0.56	214	3	4.37	7	800	9	0.96	<5	3	1035	<20	0.15	<10
B287018		20	1.50	1260	2	3.06	77	1260	3	0.60	<5	20	620	<20	0.52	10
B287019		10	1.96	1335	1	3.19	84	1270	6	0.61	<5	23	415	<20	0.57	10
B287020		10	4.40	1270	1	1.60	112	370	5	0.21	<5	39	188	<20	0.57	<10
B287021		30	0.51	344	32	6.25	10	940	3	2.08	<5	3	761	<20	0.10	<10
B287022		10	2.29	997	1	2.59	70	1180	<2	0.56	<5	20	389	<20	0.57	<10
B287023		10	1.49	460	1	2.49	23	740	<2	0.18	<5	11	335	<20	0.40	10
B287024		20	0.54	195	<1	4.44	5	780	6	0.86	<5	3	1190	<20	0.15	<10
B287025		30	0.56	203	2	4.42	5	850	7	0.75	<5	3	1220	<20	0.17	<10
B287026		30	0.55	571	7	4.42	8	870	12	0.57	<5	2	1170	<20	0.16	<10
B287027		30	0.54	291	1	4.32	6	860	16	0.95	<5	3	1125	<20	0.16	<10
B287028		30	0.52	366	<1	3.94	6	800	9	0.42	<5	2	1140	<20	0.16	<10
B287029		30	0.54	185	<1	3.88	7	810	12	0.19	<5	2	1235	<20	0.18	<10
B287030		<10	1.47	114	<1	0.15	2	100	<2	0.01	<5	2	88	<20	0.05	<10
B287031		30	0.53	137	<1	3.91	5	810	12	0.26	<5	2	1190	<20	0.17	<10
B287032		30	0.53	183	<1	4.09	7	820	12	0.44	<5	2	1195	<20	0.16	<10
B287033		30	0.60	164	1	4.21	6	880	10	0.46	<5	3	1135	<20	0.17	<10
B287034		30	0.53	126	1	4.04	7	820	14	0.35	<5	2	1155	<20	0.16	<10
B287035		30	0.62	191	1	4.09	8	860	17	0.52	<5	3	1120	<20	0.18	<10
B287036		30	0.57	196	1	4.39	8	900	15	0.67	<5	3	1085	<20	0.17	<10
B287037		30	0.54	131	1	4.39	6	880	16	0.83	<5	3	950	<20	0.15	<10
B287038		10	3.35	937	7	2.52	67	1320	13	0.40	<5	22	478	<20	0.54	<10
B287039		20	0.59	193	65	4.79	10	880	64	1.56	<5	4	720	<20	0.12	<10
B287040		10	4.23	1155	3	1.87	133	390	18	0.48	<5	32	107	<20	0.53	10

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method Analyte Units LOD	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05
B287001		<10	59	<10	49	0.014	
B287002		<10	203	<10	124	0.036	
B287003		<10	41	<10	45	0.006	
B287004		<10	37	<10	42	0.009	
B287005		<10	35	<10	35	0.052	
B287006		<10	41	<10	41	0.018	
B287007		<10	42	<10	39	0.020	
B287008		<10	38	<10	38	0.022	
B287009		<10	41	<10	32	0.037	
B287010		<10	1	<10	3	<0.005	
B287011		<10	41	<10	23	0.031	
B287012		<10	212	10	173	0.076	
B287013		<10	43	<10	28	0.305	
B287014		<10	62	<10	51	0.037	
B287015		<10	36	<10	34	0.017	
B287016		<10	38	<10	29	0.054	
B287017		<10	37	<10	37	0.052	
B287018		<10	152	<10	86	0.022	
B287019		<10	163	<10	94	0.050	
B287020		<10	268	<10	80	1.245	
B287021		<10	32	<10	18	0.207	
B287022		<10	147	<10	89	0.090	
B287023		<10	82	<10	65	0.008	
B287024		<10	33	<10	27	0.082	
B287025		<10	35	<10	29	0.112	
B287026		<10	32	<10	32	0.320	
B287027		<10	35	10	29	0.150	
B287028		<10	31	<10	41	0.036	
B287029		<10	32	<10	48	0.027	
B287030		<10	16	<10	8	<0.005	
B287031		<10	33	<10	46	0.036	
B287032		<10	32	<10	44	0.066	
B287033		<10	36	<10	55	0.018	
B287034		<10	32	<10	54	0.019	
B287035		<10	37	<10	56	0.096	
B287036		<10	39	<10	66	0.154	
B287037		<10	35	<10	49	0.098	
B287038		<10	172	<10	114	0.039	
B287039		<10	39	<10	65	0.297	
B287040		<10	238	<10	89	8.73	

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOD	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
B287041		0.90	0.8	6.26	<5	520	1.1	5	1.40	<0.5	6	21	28	2.00	20	0.86
B287042		2.18	0.6	6.62	<5	510	1.1	<2	4.46	<0.5	32	74	44	5.97	20	3.05
B287043		1.56	5.2	6.92	<5	760	1.3	12	0.58	<0.5	15	44	29	3.49	20	1.84
B287044		0.95	14.1	3.43	<5	480	0.6	30	0.16	<0.5	2	19	13	1.11	10	0.83
B287045		1.88	9.2	6.00	<5	990	1.1	18	0.30	<0.5	3	15	32	1.53	20	1.74
B287046		1.55	2.7	6.96	<5	1220	1.3	7	0.79	<0.5	5	14	49	1.60	20	2.11
B287047		1.61	2.1	7.13	<5	1220	1.2	4	0.98	<0.5	4	12	20	1.65	20	1.97
B287048		1.03	1.9	1.29	<5	200	<0.5	6	0.18	<0.5	1	16	5	0.53	<10	0.25
B287049		1.62	2.7	7.04	<5	1170	1.2	4	1.00	<0.5	3	12	15	1.58	20	1.95
B287050		1.02	<0.5	0.07	<5	20	<0.5	<2	33.8	<0.5	<1	2	1	0.11	<10	0.01
B287051		1.80	1.0	7.19	<5	1190	1.3	6	1.38	<0.5	3	11	11	1.64	20	2.27
B287052		1.93	2.0	7.43	<5	1130	1.4	2	1.50	<0.5	4	12	14	1.64	20	2.38
B287053		2.09	2.5	7.24	<5	1070	1.2	5	1.40	<0.5	4	12	23	1.60	20	1.92
B287054		1.78	23.2	5.29	<5	540	0.9	57	1.27	<0.5	3	14	9	1.43	10	0.95
B287055		2.22	1.4	6.00	<5	580	1.1	2	1.45	<0.5	4	17	7	1.69	20	1.23
B287056		1.83	6.2	6.86	<5	290	1.2	12	1.44	<0.5	4	13	6	1.66	20	0.50
B287057		2.07	6.5	7.15	<5	1020	1.3	12	1.61	<0.5	4	11	19	1.82	20	1.35
B287058		1.34	13.5	1.35	<5	380	<0.5	31	0.42	<0.5	1	17	4	0.77	<10	0.17
B287059		1.18	5.9	5.94	<5	920	1.1	9	1.55	<0.5	4	27	6	1.82	20	0.83
B287060		0.06	2.6	5.50	68	310	0.6	<2	0.65	<0.5	28	332	160	3.40	10	1.26
B287061		2.03	4.3	6.59	<5	250	0.9	13	5.29	<0.5	22	92	69	4.09	20	2.63
B287062		2.49	0.8	7.49	<5	620	1.0	<2	5.17	<0.5	26	52	92	4.13	20	1.75
B287063		2.50	0.9	8.35	<5	380	1.0	<2	7.25	0.6	55	234	171	6.01	20	2.12
B287064		1.82	0.7	8.06	<5	1320	1.4	<2	1.77	<0.5	7	14	21	2.08	30	1.77
B287065		1.77	<0.5	7.36	<5	1340	1.3	<2	1.59	<0.5	6	14	9	1.71	20	2.03
B287066		1.16	0.5	7.96	<5	650	1.0	2	6.90	<0.5	46	233	157	5.14	20	2.95
B287067		2.09	<0.5	7.50	<5	1060	1.5	<2	2.00	<0.5	8	20	44	1.99	20	1.53
B287068		3.19	0.7	7.66	<5	260	0.8	<2	9.50	0.6	41	143	154	9.60	20	1.40
B287069		3.50	<0.5	7.86	<5	180	0.6	<2	5.73	<0.5	44	155	93	4.96	20	1.24
B287070		1.21	<0.5	0.06	<5	20	<0.5	<2	31.2	<0.5	<1	1	1	0.13	<10	0.01
B287071		2.67	<0.5	8.16	<5	190	0.7	<2	5.63	<0.5	41	149	79	5.14	20	1.91
B287072		3.45	<0.5	8.46	<5	140	0.7	<2	8.79	0.6	63	199	88	6.71	20	0.92
B287073		2.25	<0.5	8.84	<5	150	0.9	<2	7.77	0.5	83	482	87	6.80	20	1.29
B287074		1.25	<0.5	7.56	<5	270	0.8	<2	6.33	<0.5	55	358	108	6.48	20	2.14
B287075		2.24	<0.5	7.55	<5	1390	1.6	<2	1.74	<0.5	6	25	11	1.79	20	2.07
B287076		2.74	<0.5	7.54	<5	1280	1.6	<2	1.58	<0.5	6	16	8	1.75	20	1.93
B287077		2.21	<0.5	7.81	<5	370	0.7	<2	6.51	<0.5	48	198	86	5.52	20	1.79
B287078		3.02	<0.5	8.04	<5	120	0.6	<2	6.11	<0.5	50	258	91	5.23	20	0.89
B287079		3.36	<0.5	8.09	<5	180	0.7	<2	5.55	0.5	45	168	94	5.21	20	1.49
B287080		0.06	0.5	7.18	8	90	<0.5	<2	7.69	0.7	45	178	168	7.88	20	0.24

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
	Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
B287041		20	0.74	255	4	3.86	12	670	17	1.01	<5	5	640	<20	0.13	<10
B287042		10	3.61	946	<1	2.02	90	1210	14	1.29	<5	20	492	<20	0.45	<10
B287043		20	1.86	211	46	3.98	47	950	50	1.87	<5	9	581	<20	0.21	<10
B287044		10	0.21	61	6	1.88	3	390	160	0.52	<5	1	258	<20	0.06	<10
B287045		20	0.41	84	9	3.50	7	710	104	0.93	<5	2	586	<20	0.11	<10
B287046		30	0.44	130	3	4.02	7	800	49	0.94	<5	2	726	<20	0.12	<10
B287047		30	0.46	169	3	4.25	5	830	17	0.96	<5	2	723	<20	0.12	<10
B287048		<10	0.06	58	6	0.82	1	130	13	0.20	<5	<1	100	<20	0.02	<10
B287049		30	0.46	152	4	4.32	6	820	21	1.01	<5	2	706	<20	0.12	<10
B287050		<10	1.67	103	<1	0.03	<1	70	<2	0.01	<5	<1	85	<20	<0.01	<10
B287051		30	0.51	195	13	4.20	6	810	29	1.07	<5	3	719	<20	0.12	<10
B287052		30	0.45	210	1	4.29	6	830	48	1.32	<5	3	586	<20	0.12	<10
B287053		30	0.47	209	11	4.37	5	770	29	1.12	<5	2	627	<20	0.11	<10
B287054		20	0.28	205	3	3.54	4	540	418	1.18	<5	2	414	<20	0.08	<10
B287055		20	0.28	217	3	4.09	4	670	22	1.58	<5	2	315	<20	0.08	<10
B287056		20	0.27	217	42	5.37	6	800	49	1.55	<5	2	272	<20	0.09	<10
B287057		30	0.45	210	103	4.42	6	790	94	1.52	<5	3	497	<20	0.11	<10
B287058		10	0.07	94	103	0.89	1	140	204	0.34	<5	<1	84	<20	0.02	<10
B287059		20	0.58	211	86	3.76	13	660	75	1.49	<5	3	448	<20	0.10	<10
B287060		10	2.31	360	11	0.25	132	170	17	0.12	6	20	34	<20	0.21	<10
B287061		10	1.59	705	22	1.51	67	720	27	1.27	<5	17	276	<20	0.40	<10
B287062		10	0.68	893	16	2.44	53	860	12	1.03	<5	17	408	<20	0.48	<10
B287063		<10	1.04	1540	14	2.62	154	830	9	1.05	6	36	346	<20	0.73	<10
B287064		30	0.69	318	4	4.48	7	1020	15	0.85	<5	3	1040	<20	0.18	<10
B287065		30	0.58	245	1	4.04	7	870	12	0.30	<5	3	1100	<20	0.17	<10
B287066		<10	0.78	1545	2	2.17	142	880	14	0.50	6	31	576	<20	0.65	<10
B287067		20	0.48	336	1	4.07	10	760	11	0.61	<5	4	1075	<20	0.18	<10
B287068		10	1.01	3300	7	0.85	111	880	2	0.41	5	33	208	<20	0.58	<10
B287069		<10	2.15	946	3	1.91	128	930	6	0.26	<5	27	233	<20	0.60	<10
B287070		<10	2.05	111	<1	0.03	1	70	<2	<0.01	<5	<1	77	<20	0.01	<10
B287071		<10	2.42	1055	3	2.12	123	1060	4	0.25	<5	27	236	<20	0.70	<10
B287072		10	1.13	2030	4	1.59	161	940	3	0.35	6	34	222	<20	0.80	<10
B287073		<10	1.12	2020	6	2.01	384	900	3	0.47	<5	36	260	<20	0.82	<10
B287074		10	1.07	1555	6	1.42	215	730	5	0.47	<5	31	320	<20	0.68	<10
B287075		30	0.57	280	<1	4.03	14	830	11	0.24	<5	3	1265	<20	0.21	<10
B287076		30	0.61	255	1	4.06	8	820	9	0.32	<5	3	1155	<20	0.20	<10
B287077		10	1.26	1625	3	1.96	126	900	3	0.39	<5	34	334	<20	0.74	<10
B287078		10	1.61	1385	3	2.25	195	940	2	0.37	5	33	263	<20	0.71	<10
B287079		<10	2.19	972	2	2.51	124	940	4	0.32	<5	30	282	<20	0.68	<10
B287080		<10	4.47	1325	1	1.63	119	390	7	0.21	5	41	187	<20	0.58	<10

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Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method Analyte Units LOD	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05
B287041		<10	44	<10	64	0.089	
B287042		<10	152	<10	159	0.194	
B287043		<10	81	10	96	0.240	
B287044		<10	25	<10	50	0.371	
B287045		<10	30	<10	46	0.188	
B287046		<10	33	10	50	0.139	
B287047		<10	38	10	46	0.162	
B287048		<10	6	<10	8	0.081	
B287049		<10	35	<10	41	0.266	
B287050		<10	1	<10	5	<0.005	
B287051		<10	35	<10	40	0.051	
B287052		<10	49	10	38	0.215	
B287053		<10	35	10	32	0.242	
B287054		<10	21	<10	27	0.448	
B287055		<10	25	10	29	0.173	
B287056		<10	24	10	16	0.218	
B287057		<10	39	10	36	0.491	
B287058		<10	8	<10	4	0.400	
B287059		<10	40	<10	40	0.149	
B287060		<10	145	10	62	>10.0	13.80
B287061		<10	139	10	125	0.546	
B287062		<10	136	10	113	0.243	
B287063		<10	246	70	133	0.070	
B287064		<10	47	<10	75	0.148	
B287065		<10	39	<10	56	0.023	
B287066		<10	225	<10	98	0.024	
B287067		<10	39	<10	54	0.060	
B287068		<10	208	<10	106	0.026	
B287069		<10	199	<10	120	0.015	
B287070		<10	1	<10	4	<0.005	
B287071		<10	205	<10	121	0.038	
B287072		<10	241	<10	88	0.036	
B287073		<10	258	<10	75	0.024	
B287074		<10	221	<10	77	0.024	
B287075		<10	41	<10	54	0.008	
B287076		<10	40	<10	44	0.007	
B287077		<10	234	<10	78	0.020	
B287078		<10	219	<10	82	0.007	
B287079		<10	215	10	117	<0.005	
B287080		<10	280	<10	87	1.245	

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Finalized Date: 3-FEB-2021
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CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOD	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
B287081		2.15	<0.5	7.89	<5	240	0.6	<2	4.42	<0.5	47	164	82	5.16	20	2.08
B287082		2.35	<0.5	7.79	<5	100	0.6	<2	7.18	<0.5	43	165	93	4.48	20	0.93
B287083		3.56	<0.5	8.48	<5	80	0.6	<2	8.58	0.5	49	174	84	5.21	20	0.78
B287084		3.26	<0.5	8.35	<5	130	0.5	<2	5.82	0.5	48	200	77	4.96	20	0.89
B287085		3.44	<0.5	7.89	<5	180	0.5	<2	5.33	<0.5	44	162	83	4.73	20	1.11
B287086		3.36	<0.5	8.30	<5	210	0.7	<2	5.93	0.5	48	174	82	5.48	20	1.89
B287087		3.47	<0.5	8.06	<5	130	0.5	<2	7.93	<0.5	47	177	89	4.88	20	1.20
B287088		3.52	0.5	8.38	<5	140	0.6	<2	8.05	0.5	47	177	117	5.25	20	1.29
B287089		2.23	<0.5	7.82	<5	150	0.6	<2	6.78	<0.5	41	168	125	4.84	20	1.24
B287090		1.41	<0.5	0.07	<5	20	<0.5	<2	33.3	<0.5	1	2	1	0.12	<10	0.01
B287091		1.77	<0.5	8.20	<5	180	0.7	<2	7.16	<0.5	46	187	119	4.57	20	1.54
B287092		2.60	<0.5	8.34	<5	220	0.6	<2	7.17	0.5	46	187	70	5.54	20	1.94
B287093		2.24	<0.5	7.89	<5	150	0.5	<2	6.61	0.5	47	182	85	5.19	20	1.28
B287094		2.22	<0.5	7.82	<5	380	0.7	<2	4.96	<0.5	41	144	51	6.31	20	2.13
B287095		2.20	<0.5	8.23	<5	180	0.6	<2	6.68	0.5	44	162	84	5.92	20	1.42
B287096		3.40	<0.5	8.16	<5	180	0.6	2	6.79	0.5	45	186	82	5.34	20	1.31
B287097		2.83	0.5	7.77	<5	150	0.6	<2	7.13	<0.5	43	163	73	5.60	20	2.22
B287098		1.81	<0.5	7.82	<5	1300	1.5	5	1.60	<0.5	5	12	7	1.73	20	1.71
B287099		1.91	<0.5	7.97	<5	1320	1.5	4	1.70	<0.5	5	11	9	1.66	20	2.28
B287100		0.06	1.0	6.17	32	210	<0.5	<2	5.48	0.5	39	262	138	6.87	20	0.45
B287101		1.58	<0.5	7.54	<5	1090	1.5	2	1.36	<0.5	5	12	16	1.56	20	1.67
B287102		1.56	<0.5	8.03	<5	1430	1.5	2	1.63	<0.5	4	14	8	1.62	20	2.45
B287103		2.65	<0.5	7.82	<5	1430	1.5	2	1.64	<0.5	4	24	10	1.57	20	2.38
B287104		1.42	<0.5	7.63	<5	1400	1.5	<2	1.62	<0.5	5	13	7	1.67	20	2.43
B287105		2.31	<0.5	7.71	<5	1330	1.3	<2	1.71	<0.5	5	11	12	1.80	20	2.18
B287106		1.98	<0.5	7.36	<5	1380	1.1	<2	1.48	<0.5	5	17	5	1.63	20	2.67
B287107		2.15	<0.5	7.95	<5	1430	1.1	<2	1.49	<0.5	6	10	4	1.75	20	2.73
B287108		2.34	<0.5	7.69	<5	1140	1.2	<2	2.32	<0.5	10	46	40	2.42	20	2.38
B287109		2.07	1.2	7.73	<5	1300	1.2	2	1.63	<0.5	5	11	6	1.73	20	2.22
B287110		1.22	<0.5	0.14	<5	20	<0.5	<2	32.4	<0.5	<1	2	1	0.13	<10	0.04
B287111		2.04	3.9	7.71	<5	1240	1.3	<2	1.69	<0.5	6	11	5	1.73	20	2.12
B287112		2.28	<0.5	7.69	<5	1360	1.2	<2	1.47	<0.5	5	13	6	1.60	20	2.39
B287113		1.87	<0.5	8.01	<5	1420	1.2	<2	1.56	<0.5	5	11	4	1.66	20	2.56
B287114		2.31	<0.5	7.78	<5	1420	1.1	<2	1.45	<0.5	4	12	6	1.58	20	2.60
B287115		2.04	<0.5	7.88	<5	1120	1.3	<2	1.73	<0.5	4	12	5	1.72	20	1.48
B287116		2.02	<0.5	7.26	<5	1070	1.2	2	1.61	<0.5	4	11	5	1.54	20	1.35
B287117		2.14	<0.5	7.51	<5	1290	1.3	<2	1.64	<0.5	4	12	4	1.69	20	2.17
B287118		2.07	<0.5	7.70	<5	1080	1.4	4	1.73	<0.5	4	11	6	1.64	20	1.77
B287119		2.01	<0.5	7.45	<5	1110	1.4	3	1.39	<0.5	5	16	5	1.54	20	1.94
B287120		0.06	<0.5	7.28	13	90	<0.5	<2	7.67	0.5	45	173	162	7.77	20	0.24

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
	Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
B287081		<10	2.99	768	3	2.31	139	950	<2	0.16	6	26	208	<20	0.68	<10
B287082		<10	0.99	920	2	1.97	127	930	2	0.17	<5	30	191	<20	0.65	<10
B287083		<10	0.86	945	2	1.92	139	1050	<2	0.16	7	31	208	<20	0.70	<10
B287084		<10	2.41	872	3	2.36	141	1060	2	0.09	7	29	238	<20	0.68	<10
B287085		<10	2.11	910	2	2.55	129	980	3	0.12	<5	28	234	<20	0.66	<10
B287086		<10	2.24	851	4	2.23	143	940	7	0.30	7	30	275	<20	0.71	<10
B287087		<10	1.06	947	3	1.61	139	950	5	0.15	<5	30	198	<20	0.68	<10
B287088		<10	0.94	849	2	1.70	143	960	4	0.14	<5	31	223	<20	0.72	<10
B287089		<10	0.85	739	2	1.88	128	910	2	0.15	<5	29	271	<20	0.65	<10
B287090		<10	1.52	115	1	0.03	2	60	<2	<0.01	<5	<1	80	<20	0.01	<10
B287091		<10	0.94	878	5	2.05	136	970	2	0.24	5	31	316	<20	0.70	<10
B287092		<10	1.27	882	4	1.60	144	970	<2	0.68	5	31	322	<20	0.71	<10
B287093		<10	1.67	864	4	1.59	137	980	4	0.08	<5	28	285	<20	0.71	<10
B287094		10	2.92	892	6	1.59	106	1000	3	0.49	<5	25	297	<20	0.60	<10
B287095		<10	2.03	1080	3	1.79	127	1110	3	0.21	<5	30	350	<20	0.69	<10
B287096		<10	1.43	964	3	1.85	125	1020	3	0.20	<5	29	287	<20	0.72	<10
B287097		<10	1.25	1190	2	1.34	113	870	6	0.20	5	28	260	<20	0.64	<10
B287098		20	0.54	247	<1	4.21	6	820	8	0.31	<5	3	1205	<20	0.19	<10
B287099		20	0.53	251	<1	4.16	6	810	10	0.38	<5	3	1245	<20	0.19	<10
B287100		10	4.15	1130	2	1.83	127	400	17	0.48	<5	32	107	<20	0.51	<10
B287101		20	0.48	225	<1	4.66	6	780	11	1.03	<5	2	965	<20	0.14	<10
B287102		20	0.54	222	<1	4.23	5	810	11	0.22	<5	3	1340	<20	0.19	10
B287103		30	0.52	212	<1	4.20	6	810	10	0.36	<5	3	1340	<20	0.18	10
B287104		20	0.52	209	<1	4.03	6	800	9	0.35	<5	2	1275	<20	0.18	<10
B287105		30	0.57	248	1	3.98	7	860	8	0.47	<5	3	1245	<20	0.19	10
B287106		30	0.58	202	<1	3.73	6	840	3	0.38	<5	3	902	<20	0.20	10
B287107		30	0.62	214	<1	3.91	6	910	4	0.42	<5	3	871	<20	0.21	<10
B287108		20	0.90	327	<1	3.68	27	860	7	1.19	<5	9	792	<20	0.29	<10
B287109		20	0.51	206	<1	4.24	6	780	8	0.82	<5	3	1080	<20	0.17	<10
B287110		<10	1.67	107	<1	0.08	<1	70	<2	<0.01	<5	<1	82	<20	<0.01	<10
B287111		20	0.51	230	<1	4.26	7	780	9	0.94	<5	2	1145	<20	0.15	<10
B287112		20	0.54	196	<1	4.19	5	780	8	0.79	<5	2	965	<20	0.17	<10
B287113		20	0.63	218	<1	4.24	5	810	8	0.57	<5	3	1010	<20	0.18	10
B287114		30	0.58	203	<1	4.08	5	800	5	0.58	<5	2	975	<20	0.18	<10
B287115		30	0.56	224	<1	4.53	6	820	6	0.71	<5	3	1070	<20	0.18	10
B287116		20	0.49	199	<1	4.34	4	730	6	0.77	<5	2	935	<20	0.16	<10
B287117		20	0.48	198	<1	4.07	4	750	8	1.01	<5	2	1040	<20	0.16	<10
B287118		20	0.52	207	<1	4.49	6	800	7	1.02	<5	2	1025	<20	0.16	<10
B287119		20	0.58	176	<1	4.07	8	710	5	0.65	<5	3	852	<20	0.16	<10
B287120		<10	4.48	1325	<1	1.63	116	380	7	0.22	<5	41	193	<20	0.58	<10

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method Analyte Units LOD	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05
B287081		<10	214	<10	149	<0.005	
B287082		<10	200	<10	105	<0.005	
B287083		<10	226	<10	106	<0.005	
B287084		<10	214	<10	108	<0.005	
B287085		<10	199	<10	111	0.005	
B287086		<10	223	10	126	<0.005	
B287087		<10	215	<10	114	<0.005	
B287088		<10	224	<10	118	0.006	
B287089		<10	209	<10	98	0.005	
B287090		<10	1	<10	4	<0.005	
B287091		<10	220	<10	97	0.018	
B287092		<10	218	<10	112	0.109	
B287093		<10	221	<10	120	0.009	
B287094		<10	180	<10	109	0.021	
B287095		<10	214	<10	112	0.017	
B287096		<10	217	<10	123	0.011	
B287097		<10	192	<10	119	0.068	
B287098		<10	40	10	49	0.012	
B287099		<10	41	<10	49	0.034	
B287100		<10	240	<10	85	8.84	
B287101		<10	39	10	43	0.078	
B287102		<10	35	<10	53	0.020	
B287103		<10	34	<10	47	0.015	
B287104		<10	35	<10	49	0.025	
B287105		<10	38	<10	46	0.037	
B287106		<10	40	<10	45	0.007	
B287107		<10	42	10	46	0.015	
B287108		<10	69	10	55	0.073	
B287109		<10	40	10	32	0.557	
B287110		<10	1	<10	3	<0.005	
B287111		<10	39	10	33	2.42	
B287112		<10	37	<10	34	0.017	
B287113		<10	42	<10	38	0.013	
B287114		<10	38	10	35	0.015	
B287115		<10	39	<10	34	0.058	
B287116		<10	36	<10	24	0.042	
B287117		<10	37	10	25	0.035	
B287118		<10	37	10	30	0.054	
B287119		<10	37	10	32	0.018	
B287120		<10	279	<10	83	1.265	

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOD	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
B287121		1.79	<0.5	7.93	<5	1210	1.3	<2	1.56	<0.5	4	13	3	1.49	20	2.11
B287122		2.03	<0.5	7.90	<5	1360	1.4	2	1.54	<0.5	5	12	3	1.42	20	2.09
B287123		2.02	<0.5	7.83	<5	1280	1.4	<2	1.65	<0.5	4	13	3	1.48	20	1.87
B287124		2.25	<0.5	8.20	<5	1410	1.5	<2	1.90	<0.5	4	13	3	1.54	20	1.69
B287125		1.66	<0.5	7.47	<5	1110	1.4	<2	2.20	<0.5	7	28	10	1.78	20	1.67
B287126		1.82	<0.5	7.81	<5	1040	1.4	<2	2.03	<0.5	6	14	6	1.87	20	1.30
B287127		1.88	<0.5	7.84	<5	360	1.1	<2	6.00	<0.5	33	113	148	7.44	20	1.70
B287128		3.45	<0.5	8.33	<5	140	0.9	<2	6.59	<0.5	33	109	119	9.27	20	1.05
B287129		3.54	<0.5	8.15	<5	90	0.8	2	6.56	<0.5	31	119	136	10.30	20	0.82
B287130		1.32	<0.5	0.07	<5	20	<0.5	<2	33.4	<0.5	<1	2	1	0.14	<10	0.01
B287131		3.27	<0.5	8.22	<5	170	0.8	<2	5.32	<0.5	41	125	93	8.21	20	1.46
B287132		3.04	<0.5	8.52	<5	220	0.6	<2	4.07	<0.5	39	148	94	5.13	20	1.40
B287133		3.43	<0.5	8.48	<5	270	0.5	5	4.88	<0.5	50	169	133	5.65	20	1.25
B287134		3.18	<0.5	8.30	<5	190	<0.5	<2	5.09	<0.5	53	158	141	5.75	20	1.27
B287135		3.24	<0.5	8.81	<5	270	0.6	<2	5.74	<0.5	56	228	113	5.35	20	1.28
B287136		1.07	<0.5	8.30	<5	540	1.5	<2	2.29	<0.5	16	25	9	2.10	20	0.79
B287137		3.29	<0.5	8.81	<5	150	0.5	<2	6.45	<0.5	51	209	159	7.78	20	0.94

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
	Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
B287121		20	0.62	195	<1	4.25	8	650	8	0.43	6	3	860	<20	0.16	<10
B287122		20	0.59	177	<1	4.24	5	680	8	0.50	<5	2	1165	<20	0.16	<10
B287123		20	0.55	191	<1	4.29	6	680	5	0.67	<5	2	1165	<20	0.16	<10
B287124		20	0.51	231	<1	4.59	6	740	6	0.37	<5	2	1370	<20	0.17	<10
B287125		20	0.53	301	2	3.93	16	780	4	0.53	<5	5	1090	<20	0.21	10
B287126		20	0.57	326	<1	4.31	7	830	2	0.60	<5	3	1090	<20	0.19	10
B287127		10	1.65	2140	6	2.43	69	850	3	0.91	<5	27	420	<20	0.57	<10
B287128		10	1.98	2810	5	1.72	75	900	3	0.72	<5	29	344	<20	0.56	<10
B287129		10	2.63	2800	5	1.23	74	950	3	1.26	<5	29	383	<20	0.59	<10
B287130		<10	1.81	113	<1	0.03	<1	70	<2	<0.01	<5	<1	82	<20	0.01	10
B287131		10	3.24	1675	2	1.15	82	890	<2	0.82	<5	32	476	<20	0.61	10
B287132		10	3.05	735	<1	1.74	99	820	<2	0.32	<5	31	314	<20	0.69	<10
B287133		10	2.84	877	<1	1.97	118	660	<2	0.51	<5	32	299	<20	0.72	<10
B287134		<10	2.62	911	<1	1.78	128	650	3	0.50	<5	32	233	<20	0.65	<10
B287135		<10	1.48	1440	1	1.96	163	650	<2	0.49	<5	34	376	<20	0.71	<10
B287136		30	0.61	389	<1	4.06	13	810	2	0.56	<5	4	820	<20	0.22	<10
B287137		<10	1.76	2310	1	1.27	123	770	2	0.67	<5	37	374	<20	0.69	<10

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502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 3-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20295154

Sample Description	Method Analyte Units LOD	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05
B287121		<10	34	<10	31	0.019	
B287122		<10	33	10	22	0.056	
B287123		<10	33	<10	23	0.070	
B287124		<10	34	<10	34	0.011	
B287125		<10	50	10	32	0.015	
B287126		<10	39	10	36	0.010	
B287127		<10	168	10	110	0.030	
B287128		<10	172	<10	111	<0.005	
B287129		<10	183	<10	112	0.005	
B287130		<10	1	<10	3	<0.005	
B287131		<10	200	<10	110	<0.005	
B287132		<10	206	<10	114	<0.005	
B287133		<10	244	<10	131	<0.005	
B287134		<10	214	<10	132	<0.005	
B287135		<10	230	<10	123	0.038	
B287136		<10	43	<10	42	0.098	
B287137		<10	227	<10	93	0.069	

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CERTIFICATE OF ANALYSIS TM20295154

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-AA23	Au-GRA21	ME-ICP61	

Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

Applies to Method:			
CRU-31	CRU-QC	LOG-21	LOG-23
PUL-32	PUL-QC	SPL-21	WEI-21

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Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
B287323		2.53	0.159	0.7	6.60	<5	410	1.0	<2	5.90	<0.5	30	82	117	8.13	20
B287324		0.97	0.022	<0.5	7.70	<5	720	1.4	<2	1.99	<0.5	8	22	13	2.13	20
B287325		1.22	0.099	0.7	7.71	<5	670	0.8	<2	5.97	<0.5	34	113	107	6.31	20
B287326		1.95	0.038	<0.5	8.17	<5	1310	1.5	<2	1.77	<0.5	7	13	2	1.89	20
B287327		3.37	0.057	0.5	8.02	<5	450	1.0	<2	4.91	<0.5	33	121	76	7.55	20
B287328		2.36	0.051	<0.5	7.77	<5	1060	1.4	2	1.89	<0.5	7	17	4	2.08	20
B287329		2.15	0.019	<0.5	7.97	<5	1450	1.4	<2	1.73	<0.5	5	12	2	1.67	20
B287330		1.49	<0.005	<0.5	0.25	<5	40	<0.5	<2	31.8	<0.5	<1	3	4	0.23	<10
B287331		2.82	0.177	0.6	7.72	<5	320	0.8	<2	4.02	<0.5	15	29	35	4.30	20
B287332		2.93	0.096	0.5	7.63	<5	340	0.8	<2	5.22	<0.5	28	92	49	5.83	20
B287333		2.09	0.039	<0.5	7.83	<5	1300	1.6	3	1.64	<0.5	5	12	3	1.56	20
B287334		3.05	0.021	<0.5	7.92	<5	1320	1.7	<2	1.85	<0.5	5	11	3	1.61	20
B287335		3.08	0.012	0.5	8.29	<5	1610	1.6	<2	1.82	<0.5	5	12	4	1.80	20
B287336		2.95	0.008	<0.5	8.11	<5	1430	1.6	6	1.70	<0.5	5	16	3	1.67	20
B287337		2.90	0.016	<0.5	7.72	<5	1440	1.6	2	1.71	<0.5	4	12	8	1.64	20
B287338		2.15	0.038	<0.5	7.47	5	1450	1.6	<2	1.73	<0.5	4	12	5	1.59	20
B287339		1.87	0.154	<0.5	7.68	<5	570	1.8	<2	3.08	<0.5	13	34	34	3.13	20
B287340		0.06	8.82	0.9	6.24	32	210	<0.5	<2	5.81	0.6	40	269	142	7.11	10
B287341		2.03	0.657	<0.5	7.65	<5	710	1.8	<2	1.84	<0.5	8	20	2	2.14	20
B287342		2.08	0.490	<0.5	7.64	<5	830	1.7	2	2.65	<0.5	13	45	17	3.43	20
B287343		1.92	0.482	<0.5	7.70	<5	770	1.8	<2	2.70	<0.5	8	26	5	2.37	20
B287344		2.02	0.237	<0.5	7.17	<5	440	1.7	<2	1.83	<0.5	5	12	2	1.59	20
B287345		2.02	0.108	<0.5	7.42	<5	540	1.7	<2	2.07	<0.5	5	11	1	1.69	20
B287346		2.44	1.010	0.6	6.59	<5	460	1.4	<2	5.43	<0.5	22	23	45	7.51	20
B287347		2.17	0.161	<0.5	6.33	<5	140	1.2	<2	3.23	<0.5	8	13	18	2.99	20
B287348		3.05	0.193	<0.5	7.60	<5	400	1.4	<2	4.81	<0.5	19	30	26	5.02	20
B287349		1.48	0.393	<0.5	7.63	<5	310	1.4	2	3.95	<0.5	22	33	10	4.04	20
B287350		1.19	<0.005	<0.5	0.06	<5	20	<0.5	<2	35.0	<0.5	<1	2	<1	0.11	<10
B287351		2.10	0.607	<0.5	7.44	<5	380	1.2	4	5.46	0.5	31	133	168	6.22	20
B287352		2.26	0.413	<0.5	7.61	<5	310	1.4	6	5.72	<0.5	39	232	55	6.82	20
B287353		2.01	0.118	<0.5	7.52	<5	390	0.7	2	6.53	0.5	41	266	110	7.81	20
B287354		2.32	0.117	<0.5	7.74	<5	270	0.9	<2	5.56	<0.5	39	112	91	8.44	20
B287355		2.40	<0.005	<0.5	8.21	<5	190	0.7	2	6.22	0.7	47	125	82	8.79	20

***** See Appendix Page for comments regarding this certificate *****

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
B287323		1.98	10	2.00	2080	14	2.35	32	950	4	0.93	<5	14	612	<20	0.70
B287324		1.11	30	0.73	385	1	4.41	8	980	4	0.22	<5	4	1085	<20	0.27
B287325		1.98	10	1.62	1485	2	2.46	44	1410	8	0.70	<5	21	744	<20	1.08
B287326		1.36	30	0.64	267	<1	4.56	6	940	7	0.25	<5	3	1390	<20	0.24
B287327		2.42	10	1.96	1720	2	2.65	45	1100	5	0.45	<5	21	627	<20	1.06
B287328		1.60	20	0.68	304	1	4.19	9	870	6	0.37	<5	4	1015	<20	0.27
B287329		1.79	30	0.59	210	<1	4.29	4	870	10	0.34	<5	3	1375	<20	0.22
B287330		0.07	<10	2.27	115	<1	0.11	6	100	<2	0.04	<5	1	83	<20	0.04
B287331		1.60	10	1.26	730	3	3.29	28	870	3	0.47	<5	18	455	<20	0.53
B287332		1.92	10	2.34	1225	11	2.20	50	1170	2	0.26	<5	18	525	<20	0.90
B287333		1.83	20	0.54	231	<1	4.26	3	790	10	0.26	<5	3	1140	<20	0.19
B287334		2.36	30	0.56	224	5	4.48	4	820	9	0.69	<5	2	1280	<20	0.17
B287335		2.65	30	0.61	215	<1	4.49	6	920	11	0.52	<5	3	1480	<20	0.20
B287336		2.38	30	0.59	208	<1	4.50	6	880	10	0.40	<5	3	1365	<20	0.19
B287337		2.44	20	0.57	205	1	4.52	5	880	11	0.90	<5	3	1335	<20	0.17
B287338		2.00	20	0.57	224	1	4.24	7	820	13	0.89	<5	3	1190	<20	0.14
B287339		1.78	20	1.16	773	15	4.78	23	900	7	0.60	<5	10	840	<20	0.39
B287340		0.46	10	4.34	1165	3	1.89	131	400	21	0.48	<5	33	110	<20	0.52
B287341		1.05	30	0.63	353	<1	5.12	9	880	6	1.11	<5	4	956	<20	0.19
B287342		1.39	20	1.00	636	66	4.75	17	870	7	1.17	<5	8	949	<20	0.40
B287343		1.17	20	0.73	542	36	4.93	11	860	5	1.14	<5	5	1045	<20	0.25
B287344		0.74	20	0.49	354	167	5.13	5	770	5	1.14	<5	3	906	<20	0.15
B287345		0.88	30	0.57	420	1	5.19	6	890	5	1.23	<5	3	1005	<20	0.16
B287346		2.07	10	1.37	1625	37	2.99	31	650	8	3.71	<5	15	626	<20	0.36
B287347		0.66	20	0.56	793	33	4.57	7	670	3	1.94	<5	4	508	<20	0.13
B287348		2.01	10	1.31	1165	21	3.70	39	860	4	1.91	<5	18	688	<20	0.46
B287349		1.09	10	0.87	805	57	4.72	42	1000	4	2.74	<5	16	648	<20	0.38
B287350		0.01	<10	1.77	111	<1	0.03	<1	80	<2	0.01	<5	<1	85	<20	<0.01
B287351		1.99	10	2.49	1755	94	3.33	82	990	8	1.58	<5	22	480	<20	0.57
B287352		1.83	10	1.88	1610	201	3.56	115	610	4	1.44	<5	27	1090	<20	0.68
B287353		2.11	10	2.25	2210	7	1.36	154	610	6	0.40	<5	27	385	<20	0.70
B287354		1.56	10	1.82	2240	2	2.18	46	800	6	0.81	<5	23	350	<20	1.08
B287355		1.07	<10	1.76	2320	4	1.60	72	750	6	0.35	<5	24	422	<20	1.19

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To: LASALLE EXPLORATION CORPORATION
502-1281 WEST GEORGIA STREET
VANCOUVER BC V6E 3J7

Finalized Date: 4-FEB-2021
Account: LAFEXP

CERTIFICATE OF ANALYSIS TM20302764

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	10	10	1	10	2
B287323		<10	<10	147	40	107
B287324		<10	<10	56	<10	52
B287325		<10	<10	177	<10	135
B287326		<10	<10	41	<10	49
B287327		<10	<10	192	10	121
B287328		<10	<10	51	20	40
B287329		<10	<10	39	10	37
B287330		<10	<10	10	<10	4
B287331		<10	<10	127	10	52
B287332		<10	10	159	<10	116
B287333		<10	<10	36	10	40
B287334		<10	<10	35	10	32
B287335		<10	<10	40	10	47
B287336		<10	<10	37	10	46
B287337		<10	<10	36	10	29
B287338		<10	<10	37	10	28
B287339		<10	<10	96	30	59
B287340		<10	<10	245	10	89
B287341		<10	<10	43	20	35
B287342		<10	<10	90	50	56
B287343		<10	<10	53	20	29
B287344		<10	<10	32	30	15
B287345		<10	<10	38	30	16
B287346		<10	<10	120	50	66
B287347		<10	<10	45	80	20
B287348		<10	<10	132	40	60
B287349		<10	<10	95	50	36
B287350		<10	<10	1	<10	4
B287351		<10	<10	166	40	119
B287352		10	<10	196	80	115
B287353		<10	<10	179	50	136
B287354		<10	<10	205	50	129
B287355		<10	<10	221	10	139

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CERTIFICATE OF ANALYSIS TM20302764

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
Au-AA23	ME-ICP61	

Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

Applies to Method:			
CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

APPENDIX D – DRILL LOGS

PROJECT:	Blakelock	**Prospect:**		**AZIMUTH (Planned):**	180	**LAB:**	ALS
HOLE:	LXB20-001	**LEASE NUMBER:**		**DIP (Planned):**	-50	**Surveyed:**	Y
		GRID:		**AZIMUTH (First Down-Hole Survey):**	189.71	**APS:**	Y
COMPANY:	LaSalle Exploration Corp.	**GRID NORTHING:**		**DIP (First Down-Hole Survey):**	-49.59	**Survey TYPE:**	Devico
DRILLER:	RJLL Drilling	**GRID EASTING:**		**DEPTH (m):**	162		
DRILL START:	12-01-2020	**COLLAR SURVEY:**	Yes	**CORE SIZE:**	NQ		
DRILL STOP:	12-04-2020	**UTM DATUM:**	NAD 83	**MAGNETIC DECL'N:**	12W		
LOGGER:	Adam Findley + Tim Chadwick	**UTM ZONE:**	17	**CASING DEPTH (m):**	15		
TECH:	Adam Findley + Tim Chadwick	**UTM NORTHING:**	5480759.4	**CASING LEFT:**	Y		
LOGGED:	Cochrane ON	**UTM EASTING:**	564799	**HOLE PLUGGED:**	N		
CORE STORED:		**ELEVATION (m):**	316.18	**HOLE CAPPED:**	Y		

LaSalle Exploration Corp.

Geology Highlights

From (m)	To (m)	Interval	Code	Description
16.90	25.35	8.45	**10i**	Locally up to 4% py, 1% massive QZV.
25.35	25.91	0.56	**2**	5% vuggy QCV. Overall 4-5%, mg, fracture-fill py.
25.91	31.45	5.54	**10i**	3% massive QZV, 2-3%, fg-mg, dissem and ffl py.
51.34	52.37	1.03	**2**	5-8%, P&S to bo QZV, 3%, fg, fol // py.
52.37	56.56	4.19	**10i**	**Min Zone. 8%, massive QZV (up to 30 cm-thick) with 0.5% py, and 0.5% blue-grey min. Also contains up to 2%, cm-thick, blue-grey mineralized QZV. 4% dissem py (52.37 - 53.4 m), and 2-3% dissem py (53.7 - 56.56 m).**
56.56	57.32	0.76	**16a**	**Min Zone. Massive QZV with 0.5% py and 0.5% blue-grey min.**
57.32	65.79	8.47	**10i**	**Min Zone. 6% QZVs. 2-4%, fg-mg, ffl and dissem py**
65.79	66.34	0.55	**16a**	**Min Zone. Massive QZV with 0.5% py and 0.5% blue-grey min.**
109.75	110.56	0.81	**10i**	Up to 3% py as fg-mg dissem or fracture-fill.

SIGNIFICANT MIN ZONE RESULTS

From (m)	To (m)	Interval	Au (g/t)	Ag (g/t)	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm

Location Map

Geotechnical Information

Interval			Recovery		RQD		Orientation					Comment
From (m)	To (m)	Interval (m)	Recovered Core (m)	Total Core Recovery %	CORE >10cm	RQD %	Mark Depth	Mark Quality	Lock Angle	Line Quality	Line extended from previous run (Y/N)	
15.00	18.00	3.00	2.37	79.0%	1.44	48.0%	18.00	0.00				Short Run, Broken Core, Blocky Ground
18.00	21.00	3.00	3.00	100.0%	2.29	76.3%	21.00	0.00				Broken Core, Blocky Ground, Assumed 3m run
21.00	24.00	3.00	3.00	100.0%	2.49	83.0%	24.00	0.00				Broken Core, Blocky Ground, Assumed 3m run
24.00	27.00	3.00	3.00	100.0%	1.67	55.7%	27.00	0.00				Broken Core, Blocky Ground, Assumed 3m run
27.00	30.00	3.00	3.00	100.0%	0.92	30.7%	30.00	0.00				Broken Core, Blocky Ground, Assumed 3m run
30.00	33.00	3.00	3.00	100.0%	2.13	71.0%	33.00	0.00				
33.00	36.00	3.00	3.00	100.0%	2.22	74.0%	36.00	0.00				
36.00	39.00	3.00	3.00	100.0%	2.10	70.0%	39.00	4.00				
39.00	42.00	3.00	3.00	100.0%	1.95	65.0%	42.00	0.00				
42.00	45.00	3.00	3.00	100.0%	0.73	24.3%	45.00	0.00				
45.00	48.00	3.00	3.00	100.0%	0.60	20.0%	48.00	0.00				
48.00	51.00	3.00	3.00	100.0%	1.54	51.3%	51.00	4.00				
51.00	54.00	3.00	3.00	100.0%	1.46	48.7%	54.00	3.00				
54.00	57.00	3.00	3.00	100.0%	1.69	56.3%	57.00	0.00				
57.00	60.00	3.00	3.00	100.0%	1.06	35.3%	60.00	0.00				
60.00	63.00	3.00	3.00	100.0%	2.06	68.7%	63.00	0.00				
63.00	66.00	3.00	3.00	100.0%	1.68	56.0%	66.00	0.00				
66.00	69.00	3.00	3.00	100.0%	1.92	64.0%	69.00	0.00				
69.00	72.00	3.00	3.00	100.0%	1.83	61.0%	72.00	0.00				
72.00	75.00	3.00	3.00	100.0%	1.68	56.0%	75.00	0.00				
75.00	78.00	3.00	3.00	100.0%	2.61	87.0%	78.00	0.00				
78.00	81.00	3.00	3.00	100.0%	2.41	80.3%	81.00	0.00				
81.00	84.00	3.00	3.00	100.0%	0.98	32.7%	84.00	0.00				
84.00	87.00	3.00	3.00	100.0%	2.65	88.3%	87.00	0.00				
87.00	90.00	3.00	3.00	100.0%	2.41	80.3%	90.00	0.00				
90.00	93.00	3.00	3.00	100.0%	2.71	90.3%	93.00	0.00				
93.00	96.00	3.00	3.00	100.0%	2.56	85.3%	96.00	0.00				
96.00	99.00	3.00	3.00	100.0%	2.26	75.3%	99.00	0.00				
99.00	102.00	3.00	3.00	100.0%	1.98	66.0%	102.00	4.00				Drew a line back from 102m to 101m, and forward to 102.5
102.00	105.00	3.00	3.00	100.0%	2.67	89.0%	105.00	0.00				
105.00	108.00	3.00	3.00	100.0%	2.54	84.7%	108.00	3.00				
108.00	111.00	3.00	3.00	100.0%	1.25	41.7%	111.00	0.00				
111.00	114.00	3.00	3.00	100.0%	1.41	47.0%	114.00	0.00				
114.00	117.00	3.00	3.00	100.0%	2.22	74.0%	117.00	0.00				
117.00	120.00	3.00	3.00	100.0%	2.23	74.3%	120.00	3.00				
120.00	123.00	3.00	3.00	100.0%	1.65	55.0%	123.00	4.00				
123.00	126.00	3.00	3.00	100.0%	1.84	61.3%	126.00	4.00				
126.00	129.00	3.00	3.00	100.0%	2.20	73.3%	129.00	0.00				
129.00	132.00	3.00	3.00	100.0%	1.88	62.7%	132.00	4.00				
132.00	135.00	3.00	3.00	100.0%	1.74	58.0%	135.00	0.00				
135.00	138.00	3.00	3.00	100.0%	2.75	91.7%	138.00	4.00				
138.00	141.00	3.00	3.00	100.0%	2.39	79.7%	141.00	0.00				
141.00	144.00	3.00	3.00	100.0%	2.70	90.0%	144.00	3.00				
144.00	147.00	3.00	3.00	100.0%	2.49	83.0%	147.00	0.00				
147.00	150.00	3.00	3.00	100.0%	2.60	86.7%	150.00	4.00	1.00	4.00		
150.00	153.00	3.00	3.00	100.0%	2.84	94.7%	153.00	3.00		4.00	Y	No lock angle with next run, extended from previous run
153.00	156.00	3.00	3.00	100.0%	2.61	87.0%	156.00	0.00				
156.00	159.00	3.00	3.00	100.0%	2.89	96.3%	159.00	0.00				
159.00	162.00	3.00	3.00	100.0%	2.74	91.3%	162.00	0.00				

Final Recovery (m):	**161.37**
Missing Core (m):	**0.63**
Average RQD (%)	**67.80%**

Box Intervals

Box Number	From	To	Interval	Comments
1	14.9	18.98	4.08	
2	18.98	22.61	3.63	
3	22.61	26.33	3.72	
4	26.33	30	3.67	
5	30	34.07	4.07	
6	34.07	38.3	4.23	
7	38.3	42.36	4.06	
8	42.36	45.95	3.59	
9	45.95	49.66	3.71	
10	49.66	53.4	3.74	
11	53.4	57.38	3.98	
12	57.38	61.46	4.08	
13	61.46	65.48	4.02	
14	65.48	69.41	3.93	
15	69.41	73.31	3.9	
16	73.31	77.43	4.12	
17	77.43	81.35	3.92	
18	81.35	85.39	4.04	
19	85.39	89.55	4.16	
20	89.55	93.6	4.05	
21	93.6	97.77	4.17	
22	97.77	102.03	4.26	
23	102.03	106.4	4.37	
24	106.4	110.51	4.11	
25	110.51	114.85	4.34	
26	114.85	118.67	3.82	
27	118.67	122.35	3.68	
28	122.35	126.32	3.97	
29	126.32	130.33	4.01	
30	130.33	134.45	4.12	
31	134.45	138.55	4.1	
32	138.55	142.74	4.19	
33	142.74	147	4.26	
34	147	151.35	4.35	
35	151.35	155.55	4.2	
36	155.55	159.76	4.21	
37	159.76	162	2.24	EOH

Magnetic Susceptibility

Depth (m)	MS, χ (1 KHz)	Depth (m)	MS, χ (1 KHz)	Depth (m)	MS, χ (1 KHz)	
15	0.02	65.5	0.49	116	0	
15.5	0.42	66	0.49	116.5	0	
16	0.2	66.5	1.04	117	0	
16.5	28.1	67	0.15	117.5	0	
17	3.38	67.5	5.13	118	0	
17.5	1.17	68	20	118.5	0	
18	0.27	68.5	39.1	119	0	
18.5	0.95	69	45.3	119.5	0.13	
19	1.15	69.5	62.4	120	0	
19.5	0	70	97.8	120.5	0	
20	0.09	70.5	0.29	121	0	
20.5	0.04	71	0.49	121.5	0	
21	0.15	71.5	1.06	122	0	
21.5	0.2	72	0.64	122.5	0	
22	0.07	72.5	3.45	123	0	
22.5	0.11	73	24.9	123.5	0.07	
23	0	73.5	2.48	124	0	
23.5	0	74	9.05	124.5	0	
24	0	74.5	68.1	125	0.04	
24.5	0.18	75	112	125.5	0	
25	0.07	75.5	7.12	126	0	
25.5	0.33	76	8.01	126.5	0	
26	0	76.5	1.26	127	0	
26.5	0.11	77	1.08	127.5	0	
27	0.04	77.5	2.21	128	0	
27.5	0.09	78	1.55	128.5	0	
28	0.04	78.5	2.17	129	0	
28.5	0.11	79	180	129.5	0	
29	0.09	79.5	98.1	130	0	
29.5	0.09	80	39.2	130.5	0	
30	0.04	80.5	40.4	131	0	
30.5	0	81	114	131.5	0.24	
31	0.29	81.5	10.7	132	0	
31.5	0.09	82	1.39	132.5	3.41	
32	73.6	82.5	0.24	133	0.31	
32.5	72.2	83	0.53	133.5	0.33	
33	41.2	83.5	1.84	134	139	
33.5	0.27	84	16.9	134.5	127	
34	15.6	84.5	37.7	135	2.57	
34.5	47.1	85	18.6	135.5	475	
35	18.7	85.5	55.1	136	243	
35.5	0.77	86	3.56	136.5	4.49	
36	0.09	86.5	1.48	137	197	
36.5	0	87	11	137.5	4.14	
37	0	87.5	31.4	138	146	
37.5	0.18	88	4.6	138.5	0.51	
38	0	88.5	1.59	139	0.2	
38.5	0	89	1.08	139.5	0.27	
39	0	89.5	37.5	140	0.18	
39.5	0	90	30.6	140.5	0.24	
40	0	90.5	31.8	141	0.2	
40.5	0.71	91	34.3	141.5	0	
41	1.3	91.5	19.7	142	0.27	
41.5	0.82	92	1.11	142.5	1.31	
42	1.15	92.5	2.19	143	3.08	
42.5	1.17	93	5.4	143.5	1.61	
43	0.51	93.5	4.45	144	0.29	
43.5	0.18	94	26.1	144.5	0.51	
44	2.9	94.5	1.88	145	0.69	
44.5	0.31	95	4.09	145.5	0.75	
45	0.27	95.5	34.9	146	0.33	
45.5	0.29	96	1.75	146.5	0.93	
46	1.97	96.5	18.8	147	0.31	
46.5	0.44	97	5.47	147.5	1.79	
47	0.35	97.5	33.4	148	3.19	
47.5	2.41	98	54.9	148.5	0.24	
48	0.49	98.5	15.7	149	0.31	
48.5	0.75	99	31.2	149.5	0.31	
49	0.2	99.5	12.8	150	0.62	
49.5	2.98	100	13.7	150.5	0.33	
50	0.4	100.5	4.87	151	0.33	
50.5	0.51	101	4.05	151.5	0.07	
51	0.4	101.5	30.9	152	0.02	
51.5	29.8	102	0.89	152.5	0.49	
52	0.31	102.5	0.64	153	0.29	
52.5	0.15	103	15	153.5	0.38	
53	0.69	103.5	1.5	154	0.4	
53.5	0.31	104	7.48	154.5	1.35	
54	0.55	104.5	0.8	155	18.6	
54.5	0.71	105	2.12	155.5	4.69	
55	0.27	105.5	3.21	156	1.11	
55.5	0.42	106	7.92	156.5	2.17	
56	0.57	106.5	70.7	157	1.88	
56.5	0.64	107	11.3	157.5	1.7	
57	0.84	107.5	14.4	158	1.5	
57.5	0.15	108	0.29	158.5	0.04	
58	0.4	108.5	2.9	159	0.93	
58.5	0.53	109	0.44	159.5	39.8	
59	0.55	109.5	0.07	160	3.63	
59.5	0.18	110	0.02	160.5	1.24	
60	0.35	110.5	0.07	161	2.94	
60.5	0.62	111	3.5	161.5	1.08	
61	0.75	111.5	0.07	162	0.71	EOH
61.5	1.11	112	0.15			
62	0.35	112.5	0			
62.5	0.46	113	0			
63	0.6	113.5	3.05			
63.5	0.93	114	0.15			
64	0.97	114.5	0.29			
64.5	0.15	115	0.4			
65	0.2	115.5	0.13			

Geological Log

Depth			Rock Type		Deformation		Texture			Physical Properties				COMMENTS
From (m)	To (m)	Interval (m)	Lith Major	Lith Minor	Deformation 1	Intensity 1	Texture 1	Texture 2	Texture 3	Colour 1	Colour 2	Grain Size	Vein %	
0.00	15.00	15.00	**15**											15m of casing
15.00	16.34	1.34	**10i**	**2**	fol	1	in			gry	bla	cg	1	Broken core - blocky ground. The unit contains 70% quartz-diorite and 30% mafic volcanic (logged as a minor unit between 15.13 - 15.36m). The quartz-diorite contains a light-grey, dominantly plagioclase-rich matrix (~ 1-6 mm wide plagioclase phenocrysts), up to 10% quartz (light-blue, 1-3 mm wide phenocrysts), and 10-12% biotite (1-3 mm-wide, uniformly distributed grains). Quartz-diorite matrix contains a dominantly interlocking granitic texture, locally weakly porphyritic. The unit is overall weakly foliated (defined by weak flattening of phenocrysts and alignment of biotite); contains weak chlorite-fill fractures and contains rare massive quartz veins, up to 1 cm thick. Up to 1.5%, medium grained, disseminated pyrite.
16.34	16.90	0.56	**2**	**10i**	fol	2	mx			gnd		fg	0.25	Broken core - blocky ground. The unit contains 90% mafic volcanic and 10% quartz-diorite (logged as a minor unit between 16.4 - 16.45m). The mafic volcanic contains a dark green, strongly chloritic, moderately foliated, strongly magnetic matrix. Contains rare carbonate veinlets and trace pyrite.
16.90	25.35	8.45	**10i**		fol	1	in			gry		cg	1	Broken core - blocky ground. Weakly foliated quartz-diorite, see description above. Contains 1% massive quartz veins (up to 1 cm thick). Overall 1-2%, medium-grained pyrite (locally up to 4%), dominantly fracture-fill and disseminated styles.
25.35	25.91	0.56	**2**		fol	2	mx			gnd		vfg	4	Strongly magnetic, moderately foliated mafic volcanic. Contains 5% vuggy quartz-carbonate-white mica veins, and 3% stockwork carbonate veinlets. Overall 4-5%, medium-grained, fracture-fill pyrite that is dominantly oriented parallel to the foliation.
25.91	31.45	5.54	**10i**	**2**	fol	1	in			gry		mg	3	Broken core - blocky ground. Medium-grained, weakly foliated quartz-diorite with minor mafic volcanic between 27.2 - 27.36 m. See description above. The unit is weakly silicified, contains weak patchy carbonate alteration, and weak fracture-fill chlorite. Contains 3% massive quartz veins (up to 2 cm thick), and 2-3% fine-medium grained, disseminated and fracture-fill pyrite.
31.45	33.33	1.88	**2**		fol	2	mx	ba		gnd		vfg	5	Dark green - black, strongly magnetic, weak-moderately foliated, massive mafic flow. Contains up to 5%, quartz + pink calcite veins (massive, locally folded, 1-3 cm thick), and 1-2% stringer / stockwork carbonate veins (mm thick). Has weak, patchy, pervasive carbonate alteration and moderate, patchy epidote + albite (?) alteration. Overall 1% pyrite (mineral bands + fracture-fill).
33.33	33.91	0.58	**10i**		fol	1	in			gry		mg	1	Light-grey, medium-grained, very weakly foliated quartz-diorite. Contains a 2cm thick carbonate vein with black chlorite vein margins and overall 2% disseminated and fracture-fill pyrite (fine grained).
33.91	35.79	1.88	**2**		fol	2	mx	xtu		gnd		mg	1	Dark green/grey, fine-medium grained, variably magnetic, moderate - strongly foliated mafic flow. From 35.3 - 35.79 m the unit contains 2 - 5 mm wide, light grey, weakly flattened fragments (aligned parallel to foliation), which may represent volcanoclastic crystals or fragments. Contains moderate, pervasive carbonate alteration and 0.75% fin-grained pyrite.
35.79	49.07	13.28	**10i**		fol	1	in			gry	pnk	cg	2	Light-grey to light-red, medium-coarse grained, very weakly foliated, plagioclase phenocryst-rich quartz-diorite. Contains variable K-feldspar alteration (pervasive & fracture/vein controlled), the highest intensity (moderate) between 43.8 - 45.11 m. Contains localized zones of moderate chlorite-fill fracture networks. Has up to 2%, cm-thick, massive quartz veins with rare pyrite along vein margins. From 35.79 - 40.3 m: 2%, disseminated and fracture-fill pyrite; 40.3 - 49.07 m: 0.5 - 1%, fracture-fill pyrite.
49.07	49.94	0.87	**2**		fol	3	mx			bla		fg	1	Black, strongly foliated, fine-grained, biotite-rich mafic unit. Locally contains a mottled texture (possible gabbro?).Variable, patchy magnetism. Has up to 1%, 1-3mm thick, massive quartz-carb veinlets (locally stockwork). Contains up to 0.75%, fracture-fill pyrite.
49.94	51.34	1.40	**10i**	**2**	fol	2	in			gry		mg	5	Mostly broken core - blocky ground. Light-grey, medium grained, foliated quartz-diorite with minor mafic flow. Contains up to 5%, massive, locally folded quartz veins (up to 3 cm-thick), and 2% disseminated pyrite.
51.34	52.37	1.03	**2**		fol	3	mx			bla		fg	8	Black, strongly foliated, fine-grained, biotite-rich mafic unit. Locally contains a mottled texture (possible gabbro?).Variable, patchy magnetism. Contains 5-8%, pinch-and-swell to boudinaged quartz-carb veins with pyrite within the vein and along the vein margins. Foliation wraps around boudinaged veins. Contains 3%, fine-grained pyrite oriented parallel to foliation in mineral bands and fracture-fill.
52.37	56.56	4.19	**10i**	**2**	fr	2	in			gry	bla	mg	8	Light-grey, medium grained, foliated quartz-diorite with minor mafic flow between 52.9 - 53.11 m. Contains up to 8%, massive quartz veins (up to 30 cm-thick between 53.4 - 53.7 m) that contain 0.5% patchy, medium-grained pyrite, and 0.5% patchy blue-grey mineral (often associated with pyrite). The unit also contains up to 2%, cm-thick, blue-grey mineralized quartz veins that are often cross-cut by the massive quartz veins. Overall, contains 4% disseminated pyrite between 52.37 - 53.4 m, and 2-3% disseminated pyrite between 53.7 - 56.56 m.
56.56	57.32	0.76	**16a**	**10i**	vn		mx			wht		vfg	90	Massive, white-grey quartz vein with minor quartz-diorite wallrock inclusion. General orientation of the vein is sub-parallel TCA (12 - 28 degrees). Contains 0.5%, patchy pyrite (medium grained) and 0.5%, patchy, medium grained blue-grey mineral.
57.32	65.79	8.47	**10i**	**16a**	fr	2	in			gry	wht	mg	6	Patchy broken core - blocky ground. Light grey, medium grained, very weakly foliated, moderately fractured quartz-diorite. The unit contains a moderately developed, pervasive chlorite-fill fracture network (brittle deformation), containing up to 2-3%, fine-medium grained pyrite. Similar to previous intervals, there are two prominent generations of quartz veins: an earlier set defined by mm - cm thick, blue-grey mineralized veins (often terminate along chlorite-fill fractures) and a later set of massive quartz veins that are typically thicker (up to 20 cm thick), are weakly mineralized (often contain the blue-grey mystery mineral), and crosscut the older veins and foliation / banding. Overall the unit contains 2-4%, fine-medium grained, fracture-fill and disseminated pyrite.
65.79	66.34	0.55	**16a**		vn		mx			wht		vfg	90	Massive, white-grey quartz vein with minor quartz-diorite wallrock inclusion. General orientation of the vein is sub-parallel TCA (22 degrees). Contains 0.5%, patchy pyrite (medium grained, dominantly situated along vein margin) and 0.5%, patchy, medium grained blue-grey mineral.
66.34	67.10	0.76	**10i**		fr	2	in			gry		mg	8	Similar to previous 10i description. Sharp lower contact with mafic volcanic. Overall 1-2%, fine-grained, disseminated pyrite.
67.10	70.42	3.32	**2**	**10i**	msh	2	fol			bla	gry	fg	1	Moderate to strongly magnetic, hosting massive quartz-vein near upper contact 67.15-67.36m surrounding wallrock hosting 3% fg py decreasing downhole. Unit hosts network of irregular +/- foliation parallel calcite veinlets with up to 1% fg py along the margins. Minor segment of **diorite** from 68.30-68.52m hosting 1-2% disseminated py + 0.5cm grey quartz-veins @21 TCA. Clay-Cal gouge filled fractures between 69.93-70.05m. Broken lower contact.
70.42	72.49	2.07	**10i**				mx			gyl	pnk	mg	0.25	Weakly blocky core puntuated by variable kspar alteration. Cut by qtz-veins up to 0.5cm. Tr to 2% py disseminated throughout. **Sharp lower contact.**
72.49	73.06	0.57	**2b**		msh	2	ba			gyd	gnl	fg	3	As 67.10-70.42m hosting network of hairline to millimetric calcite veins w/ up to 0.5% py along the selvages; Rare epi patches. **Sharp contacts.**
73.06	74.14	1.08	**12**				mx	por		pnk	gyd	mg	0.5	Moderately blocky ground. Feldspar phyric porphyry (up to 40% mg phenocrysts) punctuated by variable kspar alteration. Overall massive appearance w/ local weakly developed S2 fabric defined by aligned biotite crystals (cut by late massive quartz-veins). Sharp lower contact.
74.14	81.53	7.39	**2b**		msh	2	plw	ba		gyd	gnl	fg	0.5	Strongly magnetic. Fe-carb + moderate-strong epidote alteration in possible deformed + dislocated pillow selvages. Blocky ground not uncommon. Well developed foliation fabric. Includes folded/deformed diorite dyklet from 76.07-76.16m. Tr.-3% py sporadically distributed but largely fracture fill. **Sharp lower contact.**
81.53	84.17	2.64	**10i**				in	mx		gyl	pnk	mg	0.5	Strong to moderate blocky ground in places. Sections preserving a weak foliation fabric defined by the alignment of biotite crystals. 0.5-1% py as fg-mg disseminations or fracture fill. Unit cut in places by grey quartz veins up to 0.5cm w/ minor cal along selvages. Sharp lower contact.
84.17	107.76	23.59	**2b**		msh	2	plw	ba		gyd	gnl	fg	1	Moderately magnetic. Largely competent ground. Unit is highlighted by moderate epidote altered bands (after pillow selvages?). Cut by and hosting white-grey massive qtz-veins up to 8cm thick.87.17-87.27m late carb-clay fracture + gouge cutting host. Minor dioritic (intermediate-intrusive) dykes @98.57-98.67m and 103.59-103.74m. Py tr - 2%, largely fracture fill. **Sharp lower contact**
107.76	109.75	1.99	**12b**				mx	por		gyl	pnk	mg	1	As 73.06-74.14m becoming progressively kspar altered toward lower contact. Cut by grey-white qtartz-veins +/- chl +/- py up to 1cm thick. Rare weak foliation preserved defined by alignment of biotite crystals. 0.5-1% fg py peppered throughout unit w/ highest concentrations in veins or late fractures + chl. Distinct lower contact.
109.75	110.56	0.81	**10i**				in	mx		gyl		mg	0.25	Weakly foliated intrusive (non-porphyritic). Fabric defined by the alignment of biotite grains and fracture set. Up to 3% pyrite as fg-mg disseminations or fracture-fill. Unit contains trace grey quartz veins up to 0.5cm w/ minor calcite along vein margins. Quartz vein overprints lower contact.
110.56	133.74	23.18	**12b**	**2**	fr	3	mx	por		gyl	pnk	cg	2	Variably kspar altered, medium-coarse grained porphyritic intermediate intrusive with a minor mafic volcanic inclusion (weakly sheared, between 117.69 - 117.89 m). Moderately Kspar altered zone is located between 131.3 - 131.88 m & 132.33 - 132.74 m. Matrix and weak fabric is cut by grey-white-blue grey quartz-veins +/- chl +/- py up to 2 cm thick. Weak foliation defined by alignment of biotite grains and fracture sets. 0.5-3% fg py peppered throughout unit w/ highest concentrations in veins, late fractures + chl and as replacement style within pillow selvedges. **Sharp lower contact.**
133.74	141.94	8.20	**2b**	**12b**	hfs	2	plw	ba		gm	gyd	fg	0.5	Green - light grey, weak-moderately foliated, moderately fractured mafic volcanic with localized pillow structures, and minor porphyry dykes. Contains localized strongly magnetic zones. The unit is overall moderately bleached (giving it a light grey-green colour), with the strongest alteration around fracture sets. Light colour may also be related to a compositional variation? Contains trace blue-grey quartz veins, up to 0.5 cm thick, and overall 0.5 - 2% pyrite (fracture-fill and replacement styles). Sharp, weakly sheared upper contact with 12, containing 5% pyrite within 30 cm of the contact. Gradational lower contact.
141.94	158.10	16.16	**2b**		hfs	3	plw	ba		gnd	bla	fg	0.25	dark green - black, weakly banded (pillow margin textures), hornfelsed mafic pillow flow (similar to previous), but now very weakly foliated. Overall weakly magnetic. Contains trace, blue-grey quartz veins (up to 1 cm thick), and 0.5 - 1% pyrite as dominantly fracture-fill and replacement style. Sharp lower contact with 10i dyke.
158.10	158.66	0.56	**10**		fr	1	mx	in		gyl		cg	5	Dyke of quartz-diorite (sharp upper and lower contacts) within the pillow flow. Medium-coarse grained, weakly porphyritic texture. Contains ~5% blue-grey quartz veins (up to 1cm thick, contains pyrite along vein margins), which are roughly parallel TCA. Overall, 1% fracture-fill pyrite.
158.66	162.00	3.34	**2b**		hfs	2	plw	ba		gnd	bla	fg	0.25	dark green - black, weakly banded (pillow margin textures), hornfelsed, very weakly foliated mafic pillow flow (similar to previous). Weakly magnetic. Trace veinlets and pyrite. **EOH at 162 m**.

Alteration

From (m)	To (m)	Alt Min 1 Type	Alt Min 1 Intensity	Alt Min 1 Texture	Alt Min 2 Type	Alt Min 2 Intensity	Alt Min 2 Texture	Alt Min 3 Type	Alt Min 3 Intensity	Alt Min 3 Texture	Alt Other Type	Alt Other Intensity	Alt Other Texture	Comments
15	16.34	chl	1	iff										
16.34	16.9	chl	1	pe										
16.9	19.9	chl	1	iff										
19.9	21.1	chl	1	iff	kf	1	pe							
21.1	25.35	chl	1	iff										
25.35	25.91	chl	1	pe	cb	1	pa							
25.91	31.45	sil	1	pe	cb	1	pa	chl	1	iff				
31.45	31.89	cb	3	iff										
31.89	32.79	ep	2	pa	cb	2	iff							
32.79	33.33	cb	1	iff										
33.33	33.91	chl	1	sv	cb	1	pe							around carb veins
33.91	35.79	cb	1	iff	cb	1	pe							
40.42	43.8	kf	1	iff	chl	1	iff	cb	1	pe				
43.8	45.11	kf	1	iff	kf	1	pe	chl	1	iff				
45.11	49.07	chl	1	iff										
49.07	49.94	bt	2	pe	chl	2	pe	cb	1	iff				
49.94	51.34	chl	1	iff	sil	1	pe							
51.34	52.37	bt	2	pe	chl	2	pe	cb	1	iff				
52.37	52.9	sil	1	pe	chl	1	iff							
52.9	53.1	bt	2	pe	chl	2	pe	cb	1	iff				
53.1	53.4	sil	1	pe	chl	1	iff							
53.7	56.56	sil	1	pe	chl	1	iff							
57.32	62	sil	2	pe	chl	2	iff	cb	1	iff				
62.23	65.79	sil	2	pe	chl	2	iff	cb	1	iff				
66.34	67.1	sil	1	pe	chl	1	iff							
67.1	68.23	chl	1	iff	cb	1	pa							
68.23	68.3	ser	1	pa										
68.3	68.52	ble	2	sv										Possible albite halo around down dip quartz vein cutting the dyke
68.52	70.15	ep	2	pa										patchy to banded locally
70.15	70.42	chl	1	iff										
70.42	70.8	ble	2	sv										Possible albite halo around down dip quartz veins
70.8	72.49	kf	1	pa	chl	1	iff							
72.49	73.06	ep	1	pa	cb	2	pa	hem	1	sv				Hem vs kspar thin along cal vn selvages
73.06	74.14	kf	1	pa	chl	1	iff							
74.14	74.3	cb	2	pa										
74.3	76.11	ep	2	ba										Strong Fe-carb spatially associated w/ epi bands
76.11	78.3	chl	1	iff										
78.3	81.53	ep	2	ba										Locally strong fe-carb spatially associated w/ epi bands
81.53	84.17	kf	1	pa										weak to absent
84.17	87.2	ep	1	pa	chl	1	iff							
89.12	91.6	ep	2	pa										Locally strong fe-carb spatially associated w/ epi bands
91.6	95.87	ep	1	pa	cb	1	pa							weak bands in 2b
95.87	102.6	ep	2	pa										Locally strong fe-carb spatially associated w/ epi bands
103.59	103.74	kf	2	sv										Overprinting host diorite. Appears as halo to hairline down dip fractures
103.74	106.3	ep	1	pa										
108.1	108.52	kf	1	pa										
108.52	109.1	kf	2	pa										
109.1	117.69	kf	1	pa										
117.69	117.89	chl	1	ba	ble	1	ba							
119.8	123.7	sil	1	pe										weak silica overprint
123.7	124.95	sil	2	pe										moderate silica overprint, appears to be related to an increase in vein %
124.95	125.46	sil	1	pe										
125.46	126.75	sil	2	pe										
126.75	129.7	sil	1	iff	chl	1	iff							
129.7	130.93	sil	2	pe	cb	1	iff							
130.93	131.3	kf	1	pe	cb	1	iff							
131.3	131.88	kf	2	pe	cb	1	iff							
131.88	132.23	kf	1	pe										
132.23	132.74	kf	2	pe	cb	1	iff							

From (m)	To (m)	Alt Min 1 Type	Alt Min 1 Intensity	Alt Min 1 Texture	Alt Min 2 Type	Alt Min 2 Intensity	Alt Min 2 Texture	Alt Min 3 Type	Alt Min 3 Intensity	Alt Min 3 Texture	Alt Other Type	Alt Other Intensity	Alt Other Texture	Comments
132.74	135.3	cb	1	iff	chl	1	iff							
135.3	136.7	ble	1	ba	cb	1	iff							
136.7	139.94	ble	2	ba	cb	1	iff							
139.94	141.94	ble	1	iff	cb	1	iff							
141.94	158.10	cb	1	iff										fracture-fill carbonate alteration
158.66	162	cb	1	iff										very weak fracture-fill carbonate alteration

Mineralization

From (m)	To (m)	Min 1 Type	Min 1 Texture	Min 1 %	Min 2 Type 1	Min 2 Texture	Min 2 %	Min 3 Type 1	Min 3 Texture	Min 3 %	Min Other	Min Other Texture	Min Other %	Comments
15	16.34	py	if	1.5										
16.34	16.9	py	pa	0.25										
16.9	18.1	py	if	2										
18.1	19.3	py	if	0.5										
19.3	20.1	py	ba	3										
20.1	25.35	py	if	2	py	pe	1							
25.35	25.91	py	ba	3	py	pe	2							
25.91	31.78	py	if	2	py	pe	1							
31.78	32.79	py	if	1										
32.79	34.1	py	pa	3										
34.1	35.79	py	do	0.75										
35.79	40.3	py	do	2										
40.3	47.7	py	pa	0.5										
47.7	49.07	py	do	2										
49.07	49.94	py	if	0.75										
49.94	51.34	py	do	2.5										
51.34	52.37	py	ba	3.5										
52.37	53.4	py	do	2	py	if	2							
53.4	53.7	py	pa	0.5							unk	pa	0.5	unknown mineral is blue-grey and has metallic lustre
53.7	56.56	py	do	2	py	if	1							
56.56	57.32	py	pa	0.5							unk	pa	0.5	unknown mineral is blue-grey and has metallic lustre
57.32	62	py	do	3	py	if	1							
62	62.23	py	vm	0.5							unk	pa	0.5	unknown mineral is blue-grey and has metallic lustre
62.23	65.79	py	if	3	py	do	2							
65.79	66.34	py	vm	0.5							unk	ws	0.5	unknown mineral is blue-grey and has metallic lustre
66.34	67.1	py	if	2	py	do	1							
67.1	67.44	py	do	3										
67.44	68.3	py	if	1										
68.3	68.52	py	do	2										
68.52	69	py	do	0.25										
69	69.84	py	if	1										py also presents along isolated vein selvages up to 2%
69.84	70.06	py	do	2										fg-mg py spatially associated w/ clay-cal gouge
70.06	70.42	py	do	0.75										
70.42	70.77	py	do	2										
70.77	72.79	py	do	0.5	py	if	0.5							up to 1% py fg-mg, peppered throughout, lcly along fracture planes
72.79	73.06	py	do	1	py	if	0.25							fg py lcly along vein selvages
73.06	74.14	py	if	0.75	py	do	0.25							
74.14	76.07	py	do	0.25										both disseminated in small deformed diorite dykelet as well as elongate parallel to foliation in downhole wallrock
76.07	76.16	py	do	2										
76.16	77.43	py	ba	1										foliation parallel, fg py stretched along S2, + cubic sporadic disseminations not uncommon
77.43	79.96	py	if	1										fg along selvages of fractures +/- calcite-epidote
79.96	81.1	py	do	3										fg-mg crystals disseminated + spatially associated w/ calcite filling fractures
81.1	81.53	py	do	0.25										fg sporadically distributed, both elongate along S2 planes (discontinuous aggregates) or as fine disseminations along vein selvages
81.53	89.44	py	ba	0.75	py	if	0.25							
89.44	100.88	py	if	0.5										locally up to 2% as mg disseminations along vein selvages
100.88	101.78	py	if	2										1-2% fg-mg along vein selvages - calcite fill in network of late fractures
101.78	103.59	py	if	0.5										
103.59	103.74	py	if	2	py	do	1							fg-mg py filling between matrix crystals as well as in late fractures
103.74	104	py	do	3										largely disseminated in the matrix, fg, lcly spatially associated w/ calcite vein selvage
104	107.76	py	if	0.5										tr -1% deceasing down hole to lower contact
107.76	107.94	py	do	0.25										
107.94	108.3	py	if	2										
108.3	109.28	py	if	0.25										
109.28	109.75	py	if	2										
109.75	111.3	py	if	1										
111.3	114.6	py	if	2	py	rp	0.5							pyrite replacement of pillow selvedge material
114.6	119.06	py	if	1										
119.06	129.68	py	if	2										
129.68	133.74	py	if	1										
133.74	134.06	py	ba	5										
134.06	135.3	py	if	0.5										
135.3	138	py	if	2	py	rp	0.5							pyrite replacement of pillow selvedge material
138	139.8	py	do	0.25										
139.8	142.25	py	if	1.5	py	rp	0.5							pyrite replacement of pillow selvedge material
142.25	154.4	py	if	0.5										locally up to 1%
154.4	156.45	py	if	0.25										
156.45	158.1	py	if	0.5	py	rp	0.5							
158.1	158.66	py	if	1										
158.66	162	py	if	0.25										

Structural Intervals

From (m)	To (m)	Structure	Intensity	Comments
69.93	70.07	ftg	3	Section of pillowed mafic volcanic preserving clay-cal rich gouge (flt?), gouge represents about 40% of the interval
79	80.04	fcs	1	Series of hairline fractures (10/m), continuous and cutting penetrative S2 fabric, fractures cut and are cut by later quartz-veins, @15-25 TCA, localized cal fill +/- chl
87.2	87.3	ftg	3	Section exposes clay-cal rich gouge parallel to and cross-cutting fabric. Makes up 25% of the interval
133.74	141.94	S2	2	Weak to moderate foliation defined by a spaced cleavage, fracture sets and flattened grains. Volcanics below this interval contains very little - no foliation

Structural Measurements

Depth (m)	Structure	Intensity	Alpha	Beta	Gamma	Strike/Trend	Dip/Plunge	Dip Direction	Comment
16.34	gcu	1	29						
16.8	S2	2	33						
16.9	gc		34						Sharp contact
18.3	fr	1	23						Pyrite-fill fracture that crosscuts vein
18.32	QZV	1	44						
19.44	S2	1	41						Foliation + quartz vein
19.62	fr	1	34						Conjugate fracture
19.63	fr	1	42						Conjugate fracture
19.95	fr	1	19						Chlorite-fill fracture
21.7	S2	2	32						
25.35	gc		35						Sharp contact
25.38	QZV	2	35						
25.65	S2	2	38						
25.91	gc		46						
27.2	gc		27						Minor 2a; sharp contact
27.36	gc		30						Minor 2a; sharp contact
28	QZV	1	43						
29.15	S2	1	45						
31.45	gc		34						Sharp Contact
31.77	gc		45						Minor 2a - sharp contact
33	QCV	2	33						long limb of folded QCV
33.1	QCV	2	56						
33.33	gc		69						sharp intrusive contact
33.6	CAV	2	48						CAV rimmed with chl
33.91	gc		67						sharp intrusive contact
34.3	S2	2	58						spaced cleavage + mm-thick veins
34.03	QCV	1	58						
35.69	S2	2	50						spaced cleavage + flattening of possible volcanoclastic fragments + S0
35.79	gc		76						sharp intrusive contact
36.85	S2	2	52						spaced cleavage
37.9	S2	1	43						spaced cleavage + fracture set orientation
40.2	S2	1	58						fracture set orientation
40.7	QZV	1	53						conjugate vein
40.71	QZV	1	25						conjugate vein
41.6	QZV	1	44						massive vein
43.15	QZV	1	49						
47.1	S2	1	37						weak spaced cleavage
49.07	gc		44						sharp contact
49.2	S2	3	27						strong spaced cleavage + veinlets
50.45	QZV	2	27						weakly folded
51.45	QZV	2	35						pinch and swell quartz vein ("string of pearls texture").
51.46	S2	3	37						strong spaced cleavage
51.7	S2	3	34						strong spaced cleavage
52	QCV	2	12						boudinaged QCV (clipped by drill hole, so dips in both directions)
52.37	gc		30						moderately sheared contact
53.7	QZV	3	37						massive quartz vein with blue-grey mineral
54.51	QZV	3	10						Core axis // quartz vein that dips in both directions. Cross-cuts earlier blue-grey veins
54.75	QZV	2	42						earlier blue-grey quartz vein
55.1	QZV	1	11						smoky grey vein
56.56	QZV	3	28						upper contact of 16a - massive quartz vein with blue-grey mineral
57.32	QZV	3	12						lower contact of 16a - massive quartz vein with blue-grey mineral
57.7	S2	1	26						weak spaced cleavage
61	QZV	1	38						smoky grey vein - mineralized
62	QZV	3	21						massive quartz vein with blue-grey mineral
62.23	QZV	3	18						massive quartz vein with blue-grey mineral
65.3	fcs	1	22						Fracture set with quartz+chlorite+pyrite fill
65.79	QZV	3	22						massive quartz vein with blue-grey mineral
66.44	QZV	1	37						Blue-grey QZV that is cross-cut by massive veins
67.1	gc	1	46						sharp contact
67.48	S2	2	45						weak to moderately developed fabric obscured by calcite fracture fill network
68.3	gc	1	80						
68.52	gc	1	49						
68.82	S2	2	37						moderately to strongly developed fabric
69.93	ftg	3	60						clay-cal gouge
70.02	ftg	3	58						clay-cal gouge sub-parallel to wallrock foliation
70.28	S2	2	75						moderately developed fabric, possible patchy ser (brown overprint)
72.49	gc		47						
72.94	S2	2	43						Moderately developed fabric in 2b cut by network of fractures
73.06	gc		51						
74.14	gc		41						
74.3	S2	2	35						moderately developed fabric, mm-scale bands, lcly epi-fe-carb bands deformed
75.72	S2	2	44						moderately developed fabric, mm-scale bands, lcly epi-fe-carb bands deformed (ptygmatic), cut by late qtz-veins in places
76.62	S2	2	38						moderate to strongly developed fabric, alternating light and dark bands in 2b, stretched py along foliation not uncommon
78.3	S2	2	47						moderately developed fabric, deformed Fe-carb-epi bands not uncommon
79.1	fcs	1	19						hairline fractures cutting foliated 2b
81.15	S2	2	34						moderately developed fabric punctuated by light and dark bands, mm-spaced, Fe-carb-epi bands boudinaged/deformed by the fabric with possible clockwise (apparent dextral) deformation sense defined by rotated Fe-carb clast (PHOTO:) or by the pressure shadows around the clast
81.53	gc		57						
81.97	S2	1	39						weakly developed fabric in 10 defined by biotite alignment, cut by late quartz-veins (@55 TCA)
82.1	S2	1	45						weakly developed fabric defined by biotite alignment

Depth (m)	Structure	Intensity	Alpha	Beta	Gamma	Strike/Trend	Dip/Plunge	Dip Direction	Comment
83.66	S2	1	46						weakly developed fabric in intrusive, defined by biotite alignment exposed over 17cm, cut by late, white quartz-veins (having pink selvages)
84.17	gc		57						
84.47	S2	2	42						well developed fabric, alternating light and dark bands (lcly epi alt), cut by network of hairline calcite veinlets
86.15	S2	2	53						Well developed fabric in mafics
87.2	ftg	3	62						clay-cal rich, fabric //
87.3	ftg	3	38						clay-cal rich, x-cuts fabric
89.8	S2	2	42						moderately developed fabric, mm-spaced cut by late hairline fractures (@28 TCA)
92.91	S2	1	42						weak to moderately developed fabric - less intense than up the hole
96.68	S2	2	34						well developed fabric, boudinaged bands preserved downhole from measurement
101.38	S2	2	28	342		71.9	79.1	161.9	No confidence in line/mark quality for this measurement
101.82	S2	2	33	336		68.0	85.2	158.0	well developed fabric exposed uphole and downhole
102.4	S2	2	27	344		73.5	77.8	163.5	No confidence in line/mark quality for this measurement
103.42	S2	2	38	324		240.4	86.9	330.4	No confidence in line/mark quality for this measurement
103.59	gcu		44	317		238.1	79.3	328.1	upper contact of intrusive dyke; no confidence in line/mark quality for this oriented run
103.74	gcl		42	21		283.5	86.7	13.5	lower contact of intrusive dyke; no confidence in line/mark quality for this oriented run
105.35	S2	2	23						well developed fabric in mafic volcanic, banded
107.76	gc		34						
108.84	S2	1	35						weakly developed fabric exposed in porphyry defined by alignment of biotite
109.75	gc		52						
110.56	gc		24						
111.04	QCV	1	74						
111.28	QCV	1	38						
114.73	QCV	1	34						
116.5	QCV	1	39						
117.69	gc		46						
117.75	S2	2	38						
117.89	gc		37						
120.6	QCV	1	76						
121.78	QCV	1	82						
122.11	QCV	1	79						
123.77	QCV	1	83						blue-grey vein that is cross-cut and offset by a fracture
123.78	fr	2	57						Fracture that cuts and displaces a quartz vein. Apparent dextral displacement along fracture
123.85	QCV	1	83						
124.35	QCV	1	39						
124.5	QCV	1	28						
127.54	S2	1	56						spaced cleavage
127.88	QCV	1	73						
130.05	fcs	2	32						
132.12	QZV	1	56						
133.74	gc		35						
133.98	QZV	1	54						
134.35	CAV	2	42						"wormy" carbonate veins (dominant orientation)
134.95	gc		41						dyke contact
136.48	fcs	2	8						Stacked fracture set, sub-parallel TCA
136.7	S2	2	36						
140.25	S2	1	32						
140.75	fr	1	21						conjugate fracture - contains carbonate fracture-fill
140.76	fr	1	26						conjugate fracture - contains carbonate fracture-fill
143.7	fr	1	9						low angle fracture set - filled with beige mineral
143.85	fr	1	39						fracture set - filled with beige mineral
146.3	ab	1	27	280		203.2	75.8	293.2	Band defined by pyrite, carb, and light-colouration. Possible pillow selvedge.
146.62	ab	2	56	6		271.5	74.4	1.5	Band defined by pyrite, carb, and light-colouration. Possible pillow selvedge.
147	fr	1	30	98		342.8	62.7	72.8	fracture, locally brecciated, filled with beige mineral + carb
147.14	cv	1	23	96		346.9	68.9	76.9	carb+qtz veinlet
147.24	S2	1	13	280		194.0	86.5	284.0	very weak foliation (?) - defined by a weak spaced cleavage
147.5	ab	1	43	288		219.5	68.2	309.5	chlorite-rich band independent of a vein (possible pillow feature)
147.61	fr	2	37	292		217.9	74.7	307.9	fracture set, locally brecciated, filled with beige mineral + carb
147.8	fd	2	56	132		326.6	29.2	56.6	Core-scale asymmetric fold long limb
147.81	fd	2	24	129		11.7	46.9	101.7	Core-scale asymmetric fold short limb
147.82	fd	2	61	141		315.3	24.5	45.3	Core-scale asymmetric fold long limb
147.821	fas	1	88	318		266.1	42.0	356.1	Inferred axial plane
147.9	fr	1	41	28		288.9	86.2	18.9	weak fracture with calcite
148.52	QZV	1	67	72		296.4	51.6	26.4	blue-grey quartz veinlet - crosscut and truncated by a carb filled fracture
148.54	fr	1	29	37		119.9	85.1	209.9	fracture with carb+qtz fill
148.74	QZV	1	65	121		308.6	33.9	38.6	blue-grey quartz veinlet - crosscut and truncated by a carb filled fracture
148.76	fr	1	39	286		215.5	70.2	305.5	fracture with carb+qtz fill
148.9	fr	1	61	248		221.8	38.5	311.8	fracture with carb+qtz fill that cross-cuts a pinch & swell blue-grey qtz vein
149.1	ab	2	28	72		326.7	79.7	56.7	bleached halo - possible pillow selvedge
150.4	cv	2	27	359		87.1	76.5	177.1	Weakly brecciated carb vein + bleached halo
150.54	fr	1	47	126		340.9	35.3	70.9	fracture filled with beige mineral + carb
151.8	cv	2	32	14		100.0	82.4	190.0	massive, 1 cm thick CV
152.53	fr	1	31	85		333.4	69.9	63.4	fracture with carb+qtz fill
153.5	QZV	2	29						blue-grey quartz veinlet - crosscut and truncated by a carb filled fracture
154.8	ab	1	66						alternating bleached and non-bleached bands (possible primary features)
156.3	QZV	1	38						quartz veinlet
157.9	fr	1	11						stacked fracture set (sub-parallel TCA)
158.1	gc		68						
158.3	QZV	1	14						blue-grey quartz veinlet
158.6	QZV	1	47						blue-grey quartz veinlet
161.85	QZV	1	32						fracture-fill with quartz (2mm thick)

Veins

From (m)	To (m)	Vein 1	Vein 1 Texture 1	Vein 1 Texture 2	Vein 1 Colour	Vein 1 AccMin1	Vein 1 AccMin2	Vein 1 %	Vein 1 TrueWidth (cm)	Alpha	Beta	Gamma	Oriented_Strike	Oriented_Dip	Dip Direction	Comments	Vein 2	Vein 2 Texture 1	Vein 2 Texture 2	Vein 2 Colour	Vein 2 AccMin1	Vein 2 AccMin2	Vein 2 %	Vein 2 TrueWidth (cm)	Alpha	Beta	Gamma	Oriented_Strike	Oriented_Dip	Comments
15.5	16.34	qzv	vs	mx	qry	py		2	1	41																				
16.34	24.1	qzv	vs	mx	qry	py		1	0.5	41																				
24.1	25.91	qzv	vs	mx	qry			5	3	35							cav	vy		wht	py	mv	4	1	46					
25.91	30	qzv	vs	mx	qry	py		3	1	43																				
32.79	33.25	qcv	mx	fld	gyp	py		30	3	32																				
33.6	33.65	cav	mx		wht	chl		90	2	48																				
34.03	34.7	qcv	vs	mx	qry	py		2	1	58																				
48.3	49.07	qcv	vs	mx	blg			2	0.5	49																				
49.2	49.94	qcv	sw	mx	blg	py		4	0.5	32																				
50.45	51.34	qzv	vs	mx	qry	py	unk	18	3	27																				
51.44	51.49	qzv	pas		blg	py		60	1	35																				
51.7	52.15	qcv	bo	vs	qry	py	chl	40	2	12						Boudinaged QCV or possible wallrock inclusions (have a weak granular appearance). Hole clips the vein (sub-parallel TCA).														
52.33	52.36	qzv	pas		blg	py		50	1	35																				
53.4	53.7	qzv	mx		wht	py	unk	90	25	37																				
54.51	54.8	qzv	mx		wht	py		40	3	10						cross-cuts blue-grey veins	qzv	vs	mx	blg	py		10	0.7	51				
55	55.15	qzv	vs	mx	blg	py		25	1	11																				
56.56	57.32	qzv	mx		wht	py	unk	90	65	28																				
58.66	61.01	qzv	vs	mx	blg	py		3	1	38																				
62	62.23	qzv	mx		wht	py	unk	90	20	21						massive vein with unknown blue-grey mineral														
63.5	63.57	qzv	smk	mx	qry	py		75	5	78						mottled smoky-grey QZV														
65.79	66.34	qzv	mx		wht	py	unk	90	55	22																				
66.34	66.46	qzv	mx		blg	py		30	1	36						blue-grey QZV that is cross-cut by massive veins.														
66.84	66.95	qzv	mx		wht			50	2	32						massive "bull" QZV														
67.15	67.3	qzv	mx		wht	py		90	13	43						massive "bull" QZV with mineralized wallrock fragments														
68.93	69.01	qzv	dc					30	0.6	28																				smoky + translucent
69.01	69.17	qzv	mx			py		50	2	41																				py along vein selvages
70.6	70.66	qzv	mx		gyl			1	0.2																					
73.12	73.27	qzv	bx	xc	wht	py		10	0.5	21						Continuous, oddly shaped vein, low angle and high angle splays, possibly bx wall rock, 0.25% py filling fractures														
75.72	75.76	qzv	mx	xc	smk	py		10	0.2	44						grey-smoky, cross cuts foliated mafic volcanics														
78.66	79.5	qzv	vs	if	wht			1	0.5	56						set of white-grey quartz veins spaced on the order of 7-50cm, sub-parallel to main foliation fabric, variable in width from 2mm to 2.1cm, oriented 44-68 TCA														
82.66	84.03	qzv	vs	dc	qyp	py		1	0.5	70						series of translucent-grey w/ weak pink selvages (possible effect from cutting intrusive), veins are semi continuous and are often cut and offset by late fractures; variable in width from 2mm to 3cm; veins oriented from 58-81 TCA, 9 veins exposed over the interval; rare py along selvages														
84.65	84.71	QCV	lam		crm			30	1.1	42						vein parallel to wallrock foliation, downhole from a quartz-vein (with lesser cal) of similar orientation (possible vein set)														
84.76	86.4	qzv	vs	if	qyl	py		1	0.5							series of grey-white quartz veins (5 veins exposed over the interval), variable in width from 0.5-1.5cm, localized vein boudinaged @85.45m, vein orientations vary from 47-80 TCA														
89.28	89.43	qzv	xc	mx	wht	py		80	6	38						late vein cross-cuts dominant foliation fabric; sparse fg py along the selvages														
90.43	90.49	qzv	xc		smk	py		40	1.7	47						late vein cross-cutting dominant foliation fabric														
93.39	93.45	qzv	xc	mx	wht			80	3.5	65						late vein cross-cutting dominant foliation fabric														
93.6	94.79	qzv	vs	mx	wht			2	0.4	40						series of veins spaced on the order of 15-30cm, white-grey, largely sub-parallel to the foliation fabric (isolated vein cuts the fabric), veins range in orientation from 18-62 TCA and in width from 0.3-0.5cm														
99.62	99.69	qzv	xc		wht	ca		50	2.8	42						white-grey-translucent, includes thin splays at a conjugate angle, minor red (hem?) along the selvages + thin calcite filling fractures; cross cuts dominant foliation fabric														
107.89	108.13	qzv	vs		gyl	chl	py	5	0.5							series of grey veins with strong chl selvages cutting intrusive body, fine disseminated py in the surrounding wallrock, vein orientations range from 35-44 TCA														
111.04	111.28	qzv	vs	mx	qry	py		2	1	38																				
114.73	114.83	qzv	mx		qry	py		5	1	35																				
116.5	116.61	qzv	vs	mx	qry	py		2	0.5	39																				
120.3	120.5	qzv	vs	mx	qry	py		2	1	76						veins are locally weakly folded														
121.78	122.11	qzv	vs	mx	gyl	py		4	1	79																				
123.77	124.56	qzv	vs	mx	blg	py		6	1	40						Locally cross-cut and displaced by fractures (apparent dextral movement along fracture).														
133.74	135.6	cav	sw	vs	qry			5	0.2	42						"wormy" carbonate fracture-fill veinlets														
147.54	147.65	cav	bx		qry	py		25	3	37	292		217.92	74.74	307.9															
150.36	150.41	qzv	mo		qry			45	2	27	359		87.14	76.48	177.1															
151.77	151.84	cav	mx		qry	py		40	1	32	14		100	82.4	190.0															
153.47	153.54	qzv	mx		blg			30	1	29																				
158.23	158.59	qzv	mx		blg	py		15	1	14						blue-grey quartz vein set, sub-parallel TCA														

Assay Results

Hole ID	Type	Number	From (m)	To (m)	Sample Interval (m)	Comments	Sample	Au_ppm	Au_GRA21	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	K_pct	La_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_ppm	Pb_ppm	S_pct	Sb_ppm	Sc_ppm	Sr_ppm	Th_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
LXB20-001	NQ Core	B287001	15.00	16.34	1.34		B287001	0.014		0.25	7.67	8	970	1.4	1	1.25	0.25	11	31	13	2.35	20	1.31	30	0.84	240	1	4.6	21	1020	9	0.5	2.5	6	1015	10	0.24	5	5	59	5	49
LXB20-001	NQ Core	B287002	16.34	16.90	0.56		B287002	0.036		0.5	8.04	2.5	740	0.8	1	2.16	0.25	34	119	140	7.55	20	3.31	10	2.89	802	5	2.46	114	1780	10	0.05	2.5	27	646	10	0.73	10	5	203	5	124
LXB20-001	NQ Core	B287003	16.90	18.00	1.10		B287003	0.006		0.25	7.82	2.5	1310	1.4	1	0.92	0.25	6	14	15	1.74	20	1.88	30	0.62	130	1	4.28	8	940	12	0.26	2.5	3	1275	10	0.18	5	5	41	5	45
LXB20-001	NQ Core	B287004	18.00	19.00	1.00		B287004	0.009		0.25	8.04	2.5	1400	1.5	1	0.87	0.25	6	14	9	2.48	20	2.48	30	0.61	1445	0.5	4.1	7	920	11	0.33	2.5	3	1310	10	0.18	5	5	37	5	42
LXB20-001	NQ Core	B287005	19.00	20.00	1.00		B287005	0.052		0.25	7.63	2.5	1400	1.4	1	0.61	0.25	7	12	9	2.14	20	2.36	30	0.59	461	0.5	4.44	7	960	18	1.04	2.5	3	1110	10	0.16	5	5	35	5	35
LXB20-001	NQ Core	B287006	20.00	21.00	1.00		B287006	0.018		0.25	7.66	2.5	1380	1.4	1	0.61	0.25	8	13	9	1.94	20	2.67	30	0.65	157	1	4.09	8	1150	6	0.71	2.5	3	914	10	0.19	5	5	41	5	41
LXB20-001	NQ Core	B287007	21.00	22.00	1.00		B287007	0.02		0.25	7.63	2.5	1260	1.6	1	0.62	0.25	7	15	11	1.69	20	1.61	30	0.62	112	0.5	4.65	7	920	15	0.84	2.5	3	1120	10	0.15	5	5	42	5	39
LXB20-001	NQ Core	B287008	22.00	23.00	1.00		B287008	0.022		0.25	7.57	2.5	1380	1.2	1	0.54	0.25	6	12	66	1.63	20	2.17	20	0.53	106	1	4.2	4	870	10	0.55	2.5	3	1035	10	0.14	5	5	38	5	38
LXB20-001	NQ Core	B287009	23.00	24.17	1.17		B287009	0.037		0.25	7.72	5	1260	1.3	1	0.66	0.25	6	16	38	1.88	20	1.81	30	0.58	165	1	4.56	7	880	8	0.93	2.5	3	984	10	0.15	5	5	41	5	32
LXB20-001	Blank	B287010					B287010	0.0025		0.25	0.18	2.5	30	0.25	1	31.6	0.25	0.5	4	0.5	0.18	5	0.04	5	2.16	119	0.5	0.1	3	80	1	0.005	2.5	0.5	80	10	0.005	5	5	1	5	3
LXB20-001	NQ Core	B287011	24.17	25.35	1.18		B287011	0.031		0.25	7.68	2.5	1390	1.2	2	0.91	0.25	6	12	14	1.83	20	1.67	30	0.59	168	1	4.56	7	900	7	0.94	2.5	3	1095	10	0.16	5	5	41	5	23
LXB20-001	NQ Core	B287012	25.35	25.91	0.56		B287012	0.076		0.25	7.33	2.5	1290	1.2	1	2.29	0.25	30	102	11	7.47	30	4.29	10	2.85	743	1	1.41	106	1590	10	2.51	2.5	23	507	10	0.54	5	5	212	10	173
LXB20-001	NQ Core	B287013	25.91	27.00	1.09		B287013	0.305		0.6	7.72	2.5	1270	1.4	1	1.56	0.25	6	12	5	1.87	20	1.17	30	0.59	244	6	4.94	8	860	13	1.14	2.5	3	1105	10	0.14	5	5	43	5	28
LXB20-001	NQ Core	B287014	27.00	28.00	1.00		B287014	0.037		0.25	7.48	5	1130	1.3	1	2.65	0.25	11	28	13	2.65	20	1.91	20	0.89	414	3	4.2	23	1010	9	0.98	2.5	7	992	10	0.22	5	5	62	5	51
LXB20-001	NQ Core	B287015	28.00	29.00	1.00		B287015	0.017		0.25	7.68	2.5	1440	1.4	2	1.42	0.25	5	14	6	1.7	20	2.29	20	0.57	200	1	4.37	6	870	11	0.77	2.5	3	1165	10	0.15	5	5	36	5	34
LXB20-001	NQ Core	B287016	29.00	30.00	1.00		B287016	0.054		0.5	7.38	2.5	1260	1.3	6	1.24	0.25	5	14	9	1.68	20	1.7	30	0.53	187	4	4.63	6	850	8	1.11	2.5	3	982	10	0.13	5	5	38	5	29
LXB20-001	NQ Core	B287017	30.00	31.45	1.45		B287017	0.052		0.25	7.43	2.5	1270	1.3	1	1.35	0.25	6	14	12	1.77	20	1.84	30	0.56	214	3	4.37	7	800	9	0.96	2.5	3	1035	10	0.15	5	5	37	5	37
LXB20-001	NQ Core	B287018	31.45	32.39	0.94		B287018	0.022		0.25	7.4	2.5	460	0.9	1	6.91	0.25	27	74	46	5.65	20	1.41	20	1.5	1260	2	3.06	77	1260	3	0.6	2.5	20	620	10	0.52	10	5	152	5	86
LXB20-001	NQ Core	B287019	32.39	33.33	0.94		B287019	0.05		0.25	7.3	2.5	220	0.8	1	5.78	0.25	33	82	75	6.58	20	1.74	10	1.96	1335	1	3.19	84	1270	6	0.61	2.5	23	415	10	0.57	10	5	163	5	94
LXB20-001	OREAS 222 - 1.21g/t	B287020					B287020	1.245		0.25	7.05	10	90	0.25	1	7.57	0.5	44	169	162	7.62	20	0.23	10	4.4	1270	1	1.6	112	370	5	0.21	2.5	39	188	10	0.57	5	5	268	5	80
LXB20-001	NQ Core	B287021	33.33	33.91	0.58		B287021	0.207		0.25	8.19	2.5	480	1.3	1	1.41	0.25	8	11	6	2.28	20	0.5	30	0.51	344	32	6.25	10	940	3	2.08	2.5	3	761	10	0.1	5	5	32	5	18
LXB20-001	NQ Core	B287022	33.91	34.85	0.94		B287022	0.09		0.25	7.35	2.5	470	0.8	1	4.68	0.25	29	68	46	6.43	20	2.23	10	2.29	997	1	2.59	70	1180	1	0.56	2.5	20	389	10	0.57	5	5	147	5	89
LXB20-001	NQ Core	B287023	34.85	35.79	0.94		B287023	0.008		0.25	6.86	2.5	300	0.8	1	2.97	0.25	15	21	23	4.01	20	1.85	10	1.49	460	1	2.49	23	740	1	0.18	2.5	11	335	10	0.4	10	5	82	5	65
LXB20-001	NQ Core	B287024	35.79	37.00	1.21		B287024	0.082		0.25	7.32	2.5	1120	1.5	1	1.77	0.25	6	11	3	1.73	20	1.39	20	0.54	195	0.5	4.44	5	780	6	0.86	2.5	3	1190	10	0.15	5	5	33	5	27
LXB20-001	NQ Core	B287025	37.00	38.00	1.00		B287025	0.112		0.25	7.62	2.5	1240	1.5	3	1.62	0.25	6	12	4	1.75	20	1.66	30	0.56	203	2	4.42	5	850	7	0.75	2.5	3	1220	10	0.17	5	5	35	5	29
LXB20-001	NQ Core	B287026	38.00	39.00	1.00		B287026	0.32		0.25	7.32	2.5	1300	1.5	1	0.95	0.25	5	10	5	1.83	20	1.99	30	0.55	571	7	4.42	8	870	12	0.57	2.5	2	1170	10	0.16	5	5	32	5	32
LXB20-001	NQ Core	B287027	39.00	40.00	1.00		B287027	0.15		0.25	7.4	2.5	1380	1.6	2	0.69	0.25	6	10	2	1.87	20	2.14	30	0.54	291	1	4.32	6	860	16	0.95	2.5	3	1125	10	0.16	5	5	35	10	29
LXB20-001	NQ Core	B287028	40.00	41.00	1.00		B287028	0.036		0.25	7.42	2.5	1310	1.4	1	0.99	0.25	5	11	3	1.76	20	2.55	30	0.52	366	0.5	3.94	6	800	9	0.42	2.5	2	1140	10	0.16	5	5	31	5	41
LXB20-001	NQ Core	B287029	41.00	42.00	1.00		B287029	0.027		0.25	7.37	2.5	1520	1.5	2	1.07	0.25	4	9	3	1.66	20	2.59	30	0.54	185	0.5	3.88	7	810	12	0.19	2.5	2	1235	10	0.18	5	5	32	5	48
LXB20-001	Blank	B287030					B287030	0.0025		0.25	0.48	2.5	410	0.25	1	32.3	0.25	0.5	8	2	0.43	5	0.15	5	1.47	114	0.5	0.15	2	100	1	0.01	2.5	2	88	10	0.05	5	5	16	5	8
LXB20-001	NQ Core	B287031	42.00	43.00	1.00		B287031	0.036		0.25	7.54	2.5	1330	1.5	1	0.72	0.25	4	11	5	1.68	20	2.57	30	0.53	137	0.5	3.91	5	810	12	0.26	2.5	2	1190	10	0.17	5	5	33	5	46
LXB20-001	NQ Core	B287032	43.00	44.00	1.00		B287032	0.066		0.25	7.29	2.5	1530	1.5	1	0.71	0.25	6	10	5	1.72	20	2.47	30	0.53	183	0.5	4.09	7	820	12	0.44	2.5	2	1195	10	0.16	5	5	32	5	44
LXB20-001	NQ Core	B287033	44.00	45.00	1.00		B287033	0.018		0.25	7.41	2.5	1350	1.5	2	0.9	0.25	5	14	11	1.74	20	2.48	30	0.6	164	1	4.21	6	880	10	0.46	2.5	3	1135	10	0.17	5	5	36	5	55
LXB20-001	NQ Core	B287034	45.00	46.00	1.00		B287034	0.019		0.25	7.16	2.5	1360	1.5	1	0.74	0.25	5	12	14	1.64	20	2.44	30	0.53	126	1	4.04	7	820	14	0.35	2.5	2	1155	10	0.16	5	5	32	5	54
LXB20-001	NQ Core	B287035	46.00	47.00	1.00		B287035	0.096		0.5	7.2	2.5	1300	1.5	1	0.95	0.25	6	15	70	1.85	20	2.44	30	0.62	191	1	4.09	8	860	17	0.52	2.5	3	1120	10	0.18	5	5	37	5	56
LXB20-001	NQ Core	B287036	47.00	48.00	1.00		B287036	0.154		0.8	7.59	2.5	1390	1.6	1	0.62	0.25	5	11	86	1.8	20	2.48	30	0.57	196	1	4.39	8	900	15	0.67	2.5	3	1085	10	0.17	5	5	39	5	66
LXB20-001	NQ Core	B287037	48.00	49.07	1.07		B287037	0.098		0.25	7.24	2.5	1340	1.5	3	0.53	0.25	5	13	57	1.74	20	2.18	30	0.54	131	1	4.39	6	880	16	0.83	2.5	3	950	10	0.15	5	5	35	5	49
LXB20-001	NQ Core	B287038	49.07	49.94	0.87		B287038	0.039		0.25	7.55	2.5	380	0.9	1	4.03	0.25	31	78	80	6.13	20	3.59	10	3.35	937	7	2.52	67	1320	13	0.4	2.5	22	478	10	0.54	5	5	172	5	114
LXB20-001	NQ Core	B287039	49.94	50.64	0.70		B287039	0.297		**5.2**	7.18	2.5	580	1.2	11	1	0.25	7	16	93	2.09	20	0.94	20	0.59	193	65	4.79	10	880	64	1.56	2.5	4	720	10	0.12	5	5	39	5	65
LXB20-001	OREAS 228b - 8.49g/t	B287040					B287040	8.73		**1**	6.13	30	210	0.25	1	5.69	0.25	37	265	146	7.11	10	0.46	10	4.23	1155	3	1.87	133	390	18	0.48	2.5	32	107	10	0.53	10	5	238	5	89
LXB20-001	NQ Core	B287041	50.64	51.34	0.70		B287041	0.089		**0.8**	6.26	2.5	520	1.1	5	1.4	0.25	6	21	28	2	20	0.86	20	0.74	255	4	3.86	12	670	17	1.01	2.5	5	640	10	0.13	5	5	44	5	64
LXB20-001	NQ Core	B287042	51.34	52.37	1.03		B287042	0.194		**0.6**	6.62	2.5	510	1.1	1	4.46	0.25	32	74	44	5.97	20	3.05	10	3.61	946	0.5	2.02	90	1210	14	1.29	2.5	20	492	10	0.45	5	5	152	5	159
LXB20-001	NQ Core	B287043	52.37	53.37	1.00		B287043	0.24		**5.2**	6.92	2.5	760	1.3	12	0.58	0.25	15	44	29	3.49	20	1.84	20	1.86	211	46	3.98	47	950	50	1.87	2.5	9	581	10	0.21	5	5	81	10	96
LXB20-001	NQ Core	B287044	53.37	53.87	0.50		B287044	0.371		**14.1**	3.43	2.5	480	0.6	30	0.16	0.25	2	19	13	1.11	10	0.83	10	0.21	61	6	1.88	3	390	160	0.52	2.5	1	258	10	0.06	5	5	25	5	50
LXB20-001	NQ Core	B287045	53.87	54.87	1.00		B287045	0.188		**9.2**	6	2.5	990	1.1	18	0.3	0.25	3	15	32	1.53	20	1.74	20	0.41	84	9	3.5	7	710	104	0.93	2.5	2	586	10	0.11	5	5	30	5	46
LXB20-001	NQ Core	B287046	54.87	55.71	0.84		B287046	0.139		**2.7**	6.96	2.5	1220	1.3	7	0.79	0.25	5	14	49	1.6	20	2.11	30	0.44	130	3	4.02	7	800	49	0.94	2.5	2	726	10	0.12	5	5	33	10	50
LXB20-001	NQ Core	B287047	55.71	56.56	0.85		B287047	0.162		**2.1**	7.13	2.5	1220	1.2	4	0.98	0.25	4	12	20	1.65	20	1.97	30	0.46	169	3	4.25	5	830	17	0.96	2.5	2	723	10	0.12	5	5	38	10	46
LXB20-001	NQ Core	B287048	56.56	57.32	0.76		B287048	0.081		**1.9**	1.29	2.5	200	0.25	6	0.18	0.25	1	16	5	0.53	5	0.25	5	0.06	58	6	0.82	1	130	13	0.2	2.5	0.5	100	10	0.02	5	5	6	5	8
LXB20-001	NQ Core	B287049	57.32	58.41	1.09		B287049	0.266		**2.7**	7.04	2.5	1170	1.2	4	1	0.25	3	12	15	1.58	20	1.95	30	0.46	152	4	4.32	6	820	21	1.01	2.5	2	706	10	0.12	5	5	35	5	41
LXB20-001	Blank	B287050					B287050	0.0025		0.25	0.07	2.5	20	0.25	1	33.8	0.25	0.5	2	1	0.11	5	0.01	5	1.67	103	0.5	0.03	0.5	70	1	0.01	2.5	0.5	85	10	0.005	5	5	1	5	5
LXB20-001	NQ Core	B287051	58.41	59.50	1.09		B287051	0.051		**1**	7.19	2.5	1190	1.3	6	1.38	0.25	3	11	11	1.64	20	2.27	30	0.51	195	13	4.2	6	810	29	1.07	2.5	3	719	10	0.12	5	5	35	5	40
LXB20-001	NQ Core	B287052	59.5	60.59	1.09		B287052	0.215		**2**	7.43	2.5	1130	1.4	2	1.5	0.25	4	12	14	1.64	20	2.38	30	0.45	210	1	4.29	6	830	48	1.32	2.5	3	586	10	0.12	5	5	49	10	38
LXB20-001	NQ Core	B287053	60.59	61.68	1.09		B287053	0.242		**2.5**	7.24	2.5	1070	1.2	5	1.4	0.25	4	12	23	1.6	20	1.92	30	0.47	209	11	4.37	5	770	29	1.12	2.5	2	627	10	0.11	5	5	35	10	32
LXB20-001	NQ Core	B287054	61.68	62.68	1.00		B287054	0.448		**23.2**	5.29	2.5	540	0.9	57	1.27	0.25	3	14	9	1.43	10	0.95	20	0.28	205	3	3.54	4	540	418	1.18	2.5	2	414	10	0.08	5	5	21	5	27
LXB20-001	NQ Core	B287055	62.68	63.79	1.11		B287055	0.173		**1.4**	6	2.5	580	1.1	2	1.45	0.25	4	17	7	1.69	20	1.23	20	0.28	217	3	4.09	4	670	22	1.58	2.5	2	315	10	0.08	5	5	25	10	29
LXB20-001	NQ Core	B287056	63.79	64.79	1.00		B287056	0.218		**6.2**	6.86	2.5	290	1.2	12	1.44	0.25	4	13	6	1.66	20	0.5	20	0.27	217	42	5.37	6	800	49	1.55	2.5	2	272	10	0.09	5	5	24	10	16
LXB20-001	NQ Core	B287057	64.79	65.79	1.00		B287057	0.491		**6.5**	7.15	2.5	1020	1.3	12	1.61	0.25	4	11	19	1.82	20	1.35	30	0.45	210	103	4.42	6	790	94	1.52	2.5	3	497	10	0.11	5	5	39	10	36
LXB20-001	NQ Core	B287058	65.79	66.34	0.55		B287058	0.4		**13.5**	1.35	2.5	380	0.25	31	0.42	0.25	1	17	4	0.77	5	0.17	10	0.07	94	103	0.89	1	140	204	0.34	2.5	0.5	84	10	0.02	5	5	8	5	4
LXB20-001	NQ Core	B287059	66.34	67.10	0.76		B287059	0.149		**5.9**	5.94	2.5	920	1.1	9	1.55	0.25	4	27	6	1.82	20	0.83	20	0.58	211	86	3.76	13	660	75	1.49	2.5	3	448	10	0.1	5	5	40	5	40
LXB20-001	OREAS 257b - 14.7g/t	B287060					B287060	10.01	13.8	**2.6**	5.5	68	310	0.6	1	0.65	0.25	28	332	160	3.4	10	1.26	10	2.31	360	11	0.25	132	170	17	0.12	6	20	34	10	0.21	5	5	145	10	62
LXB20-001	NQ Core	B287061	67.1	68.1	1		B287061	0.546		**4.3**	6.59	2.5	250	0.9	13	5.29	0.25	22	92	69	4.09	20	2.63	10	1.59	705	22	1.51	67	720	27	1.27	2.5	17	276	10	0.4	5	5	139	10	125
LXB20-001	NQ Core	B287062	68.1	69.26	1.16		B287062	0.243		**0.8**	7.49	2.5	620	1	1	5.17	0.25	26	52	92	4.13	20	1.75	10	0.68	893	16	2.44	53	860	12	1.03	2.5	17	408	10	0.48	5	5	136	10	113
LXB20-001	NQ Core	B287063	69.26	70.42	1.16		B287063	0.07		**0.9**	8.35	2.5	380	1	1	7.25	0.6	55	234	171	6.01	20	2.12	5	1.04	1540	14	2.62	154	830	9	1.05	6	36	346	10	0.73	5	5	246	70	133
LXB20-001	NQ Core	B287064	70.42	71.42	1		B287064	0.148		**0.7**	8.06	2.5	1320	1.4	1	1.77	0.25	7	14	21	2.08	30	1.77	30	0.69	318	4	4.48	7	1020	15	0.85	2.5	3	1040	10	0.18	5	5	47	5	75
LXB20-001	NQ Core	B287065	71.42	72.49	1.07		B287065	0.023		0.25	7.36	2.5	1340	1.3	1	1.59	0.25	6	14	9	1.71	20	2.03	30	0.58	245	1	4.04	7	870	12	0.3	2.5	3	1100	10	0.17	5	5	39	5	56
LXB20-001	NQ Core	B287066	72.49	73.06	0.57		B287066	0.024		0.5	7.96	2.5	650	1	2	6.9	0.25	46	233	157	5.14	20	2.95	5	0.78	1545	2	2.17	142	880	14	0.5	6	31	576	10	0.65	5	5	225	5	98
LXB20-001	NQ Core	B287067	73.06	74.14	1.08		B287067	0.06		0.25	7.5	2.5	1060	1.5	1	2	0.25	8	20	44	1.99	20	1.53	20	0.48	336	1	4.07	10	760	11	0.61	2.5	4	1075	10	0.18	5	5	39	5	54
LXB20-001	NQ Core	B287068	74.14	75.5	1.36		B287068	0.026		0.7	7.66	2.5	260	0.8	1	9.5	0.6	41	143	154	9.6	20	1.4	10	1.01	3300	7	0.85	111	880	2	0.41	5	33	208	10	0.58	5	5	208	5	106
LXB20-001	NQ Core	B287069	75.5	77	1.5		B287069	0.015		0.25	7.86	2.5	180	0.6	1	5.73	0.25	44	155	93	4.96	20	1.24	5	2.15	946	3	1.91	128	930	6	0.26	2.5	27	233	10	0.6	5	5	199	5	120
LXB20-001	Blank	B287070					B287070	0.0025		0.25	0.06	2.5	20	0.25	1	31.2	0.25	0.5	1	1	0.13	5	0.01	5	2.05	111	0.5	0.03	1	70	1	0.005	2.5	0.5	77	10	0.01	5	5	1	5	4
LXB20-001	NQ Core	B287071	77	78.5	1.5		B287071	0.038		0.25	8.16	2.5	190	0.7	1	5.63	0.25	41	149	79	5.14	20	1.91	5	2.42	1055	3	2.12	123	1060	4	0.25	2.5	27	236	10	0.7	5	5	205	5	121
LXB20-001	NQ Core	B287072	78.5	80	1.5		B287072	0.036		0.25	8.46	2.5	140	0.7	1	8.79	0.6	63	199	88	6.71	20	0.92	10	1.13	2030	4	1.59	161	940	3	0.35	6	34	222	10	0.8	5	5	241	5	88
LXB20-001	NQ Core	B287073	80	81	1		B287073	0.024		0.25	8.84	2.5	150	0.9	1	7.77	0.5	83	482	87	6.8	20	1.29	5	1.12	2020	6	2.01	384	900	3	0.47	2.5	36	260	10	0.82	5	5	258	5	75
LXB20-001	NQ Core	B287074	81	81.53	0.53		B287074	0.024		0.25	7.56	2.5	270	0.8	1	6.33	0.25	55	358	108	6.48	20	2.14	10	1.07	1555	6	1.42	215	730	5	0.47	2.5	31	320	10	0.68	5	5	221	5	77
LXB20-001	NQ Core	B287075	81.53	82.83	1.3		B287075	0.008		0.25	7.55	2.5	1390	1.6	1	1.74	0.25	6	25	11	1.79	20	2.07	30	0.57	280	0.5	4.03	14	830	11	0.24	2.5	3	1265	10	0.21	5	5	41	5	54
LXB20-001	NQ Core	B287076	82.83	84.17	1.34		B287076	0.007		0.25	7.54	2.5	1280	1.6	1	1.58	0.25	6	16	8	1.75	20	1.93	30	0.61	255	1	4.06	8	820	9	0.32	2.5	3	1155	10	0.2	5	5	40	5	44
LXB20-001	NQ Core	B287077	84.17	85.17	1		B287077	0.02		0.25	7.81	2.5	370	0.7	1	6.51	0.25	48	198	86	5.52	20	1.79	10	1.26	1625	3	1.96	126	900	3	0.39	2.5	34	334	10	0.74	5	5	234	5	78
LXB20-001	NQ Core	B287078	85.17	86.5	1.33		B287078	0.007		0.25	8.04	2.5	120	0.6	1	6.11	0.25	50	258	91	5.23	20	0.89	10	1.61	1385	3	2.25	195	940	2	0.37	5	33	263	10	0.71	5	5	219	5	82
LXB20-001	NQ Core	B287079	86.5	88	1.5		B287079	0.0025		0.25	8.09	2.5	180	0.7	1	5.55	0.5	45	168	94	5.21	20	1.49	5	2.19	972	2	2.51	124	940	4	0.32	2.5	30	282	10	0.68	5	5	215	10	117
LXB20-001	OREAS 222 - 1.21g/t	B287080					B287080	1.245		0.5	7.18	8	90	0.25	1	7.69	0.7	45	178	168	7.88	20	0.24	5	4.47	1325	1	1.63	119	390	7	0.21	5	41	187	10	0.58	5	5	280	5	87
LXB20-001	NQ Core	B287081	88	89	1		B287081	0.0025		0.25	7.89	2.5	240	0.6	1	4.42	0.25	47	164	82	5.16	20	2.08	5	2.99	768	3	2.31	139	950	1	0.16	6	26	208	10	0.68	5	5	214	5	149
LXB20-001	NQ Core	B287082	89	90	1		B287082	0.0025		0.25	7.79	2.5	100	0.6	1	7.18	0.25	43	165	93	4.48	20	0.93	5	0.99	920	2	1.97	127	930	2	0.17	2.5	30	191	10	0.65	5	5	200	5	105
LXB20-001	NQ Core	B287083	90	91.5	1.5		B287083	0.0025		0.25	8.48	2.5	80	0.6	1	8.58	0.5	49	174	84	5.21	20	0.78	5	0.86	945	2	1.92	139	1050	1	0.16	7	31	208	10	0.7	5	5	226	5	106
LXB20-001	NQ Core	B287084	91.5	93	1.5		B287084	0.0025		0.25	8.35	2.5	130	0.5	1	5.82	0.5	48	200	77	4.96	20	0.89	5	2.41	872	3	2.36	141	1060	2	0.09	7	29	238	10	0.68	5	5	214	5	108
LXB20-001	NQ Core	B287085	93	94.5	1.5		B287085	0.005		0.25	7.89	2.5	180	0.5	1	5.33	0.25	44	162	83	4.73	20	1.11	5	2.11	910	2	2.55	129	980	3	0.12	2.5	28	234	10	0.66	5	5	199	5	111
LXB20-001	NQ Core	B287086	94.5	96	1.5		B287086	0.0025		0.25	8.3	2.5	210	0.7	1	5.93	0.5	48	174	82	5.48	20	1.89	5	2.24	851	4	2.23	143	940	7	0.3	7	30	275	10	0.71	5	5	223	10	126
LXB20-001	NQ Core	B287087	96	97.5	1.5		B287087	0.0025		0.25	8.06	2.5	130	0.5	1	7.93	0.25	47	177	89	4.88	20	1.2	5	1.06	947	3	1.61	139	950	5	0.15	2.5	30	198	10	0.68	5	5	215	5	114
LXB20-001	NQ Core	B287088	97.5	99	1.5		B287088	0.006		0.5	8.38	2.5	140	0.6	1	8.05	0.5	47	177	117	5.25	20	1.29	5	0.94	849	2	1.7	143	960	4	0.14	2.5	31	223	10	0.72	5	5	224	5	118
LXB20-001	NQ Core	B287089	99	100	1		B287089	0.005		0.25	7.82	2.5	150	0.6	1	6.78	0.25	41	168	125	4.84	20	1.24	5	0.85	739	2	1.88	128	910	2	0.15	2.5	29	271	10	0.65	5	5	209	5	98
LXB20-001	Blank	B287090					B287090	0.0025		0.25	0.07	2.5	20	0.25	1	33.3	0.25	1	2	1	0.12	5	0.01	5	1.52	115	1	0.03	2	60	1	0.005	2.5	0.5	80	10	0.01	5	5	1	5	4
LXB20-001	NQ Core	B287091	100	100.8	0.8		B287091	0.018		0.25	8.2	2.5	180	0.7	1	7.16	0.25	46	187	119	4.57	20	1.54	5	0.94	878	5	2.05	136	970	2	0.24	5	31	316	10	0.7	5	5	220	5	97
LXB20-001	NQ Core	B287092	100.8	102	1.2		B287092	0.109		0.25	8.34	2.5	220	0.6	1	7.17	0.5	46	187	70	5.54	20	1.94	5	1.27	882	4	1.6	144	970	1	0.68	5	31	322	10	0.71	5	5	218	5	112
LXB20-001	NQ Core	B287093	102	103	1		B287093	0.009		0.25	7.89	2.5	150	0.5	1	6.61	0.5	47	182	85	5.19	20	1.28	5	1.67	864	4	1.59	137	980	4	0.08	2.5	28	285	10	0.71	5	5	221	5	120
LXB20-001	NQ Core	B287094	103	104	1		B287094	0.021		0.25	7.82	2.5	380	0.7	1	4.96	0.25	41	144	51	6.31	20	2.13	10	2.92	892	6	1.59	106	1000	3	0.49	2.5	25	297	10	0.6	5	5	180	5	109
LXB20-001	NQ Core	B287095	104	105	1		B287095	0.017		0.25	8.23	2.5	180	0.6	1	6.68	0.5	44	162	84	5.92	20	1.42	5	2.03	1080	3	1.79	127	1110	3	0.21	2.5	30	350	10	0.69	5	5	214	5	112
LXB20-001	NQ Core	B287096	105	106.5	1.5		B287096	0.011		0.25	8.16	2.5	180	0.6	2	6.79	0.5	45	186	82	5.34	20	1.31	5	1.43	964	3	1.85	125	1020	3	0.2	2.5	29	287	10	0.72	5	5	217	5	123
LXB20-001	NQ Core	B287097	106.5	107.76	1.26		B287097	0.068		0.5	7.77	2.5	150	0.6	1	7.13	0.25	43	163	73	5.6	20	2.22	5	1.25	1190	2	1.34	113	870	6	0.2	5	28	260	10	0.64	5	5	192	5	119
LXB20-001	NQ Core	B287098	107.76	108.75	0.99		B287098	0.012		0.25	7.82	2.5	1300	1.5	5	1.6	0.25	5	12	7	1.73	20	1.71	20	0.54	247	0.5	4.21	6	820	8	0.31	2.5	3	1205	10	0.19	5	5	40	10	49
LXB20-001	NQ Core	B287099	108.75	109.75	1		B287099	0.034		0.25	7.97	2.5	1320	1.5	4	1.7	0.25	5	11	9	1.66	20	2.28	20	0.53	251	0.5	4.16	6	810	10	0.38	2.5	3	1245	10	0.19	5	5	41	5	49
LXB20-001	OREAS 228b - 8.49g/t	B287100					B287100	8.84		1	6.17	32	210	0.25	1	5.48	0.5	39	262	138	6.87	20	0.45	10	4.15	1130	2	1.83	127	400	17	0.48	2.5	32	107	10	0.51	5	5	240	5	85
LXB20-001	NQ Core	B287101	109.75	110.56	0.81		B287101	0.078		0.25	7.54	2.5	1090	1.5	2	1.36	0.25	5	12	16	1.56	20	1.67	20	0.48	225	0.5	4.66	6	780	11	1.03	2.5	2	965	10	0.14	5	5	39	10	43
LXB20-001	NQ Core	B287102	110.56	111.56	1		B287102	0.02		0.25	8.03	2.5	1430	1.5	2	1.63	0.25	4	14	8	1.62	20	2.45	20	0.54	222	0.5	4.23	5	810	11	0.22	2.5	3	1340	10	0.19	10	5	35	5	53
LXB20-001	NQ Core	B287103	111.56	112.75	1.19		B287103	0.015		0.25	7.82	2.5	1430	1.5	2	1.64	0.25	4	24	10	1.57	20	2.38	30	0.52	212	0.5	4.2	6	810	10	0.36	2.5	3	1340	10	0.18	10	5	34	5	47
LXB20-001	NQ Core	B287104	112.75	113.75	1		B287104	0.025		0.25	7.63	2.5	1400	1.5	1	1.62	0.25	5	13	7	1.67	20	2.43	20	0.52	209	0.5	4.03	6	800	9	0.35	2.5	2	1275	10	0.18	5	5	35	5	49
LXB20-001	NQ Core	B287105	113.75	114.75	1		B287105	0.037		0.25	7.71	2.5	1330	1.3	1	1.71	0.25	5	11	12	1.8	20	2.18	30	0.57	248	1	3.98	7	860	8	0.47	2.5	3	1245	10	0.19	10	5	38	5	46
LXB20-001	NQ Core	B287106	114.75	115.75	1		B287106	0.007		0.25	7.36	2.5	1380	1.1	1	1.48	0.25	5	17	5	1.63	20	2.67	30	0.58	202	0.5	3.73	6	840	3	0.38	2.5	3	902	10	0.2	10	5	40	5	45

Hole ID	Type	Number	From (m)	To (m)	Sample Interval (m)	Comments	Sample	Au_ppm	Au_GRA21	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	K_pct	La_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_ppm	Pb_ppm	S_pct	Sb_ppm	Sc_ppm	Sr_ppm	Th_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
LXB20-001	NQ Core	B287107	115.75	116.87	1.12		B287107	0.015		0.25	7.95	2.5	1430	1.1	1	1.49	0.25	6	10	4	1.75	20	2.73	30	0.62	214	0.5	3.91	6	910	4	0.42	2.5	3	871	10	0.21	5	5	42	10	46
LXB20-001	NQ Core	B287108	116.87	118	1.13		B287108	0.073		0.25	7.69	2.5	1140	1.2	1	2.32	0.25	10	46	40	2.42	20	2.38	20	0.9	327	0.5	3.68	27	860	7	1.19	2.5	9	792	10	0.29	5	5	69	10	55
LXB20-001	NQ Core	B287109	118	119	1		B287109	0.557		**1.2**	7.73	2.5	1300	1.2	2	1.63	0.25	5	11	6	1.73	20	2.22	20	0.51	206	0.5	4.24	6	780	8	0.82	2.5	3	1080	10	0.17	5	5	40	10	32
LXB20-001	Blank	B287110					B287110	0.0025		0.25	0.14	2.5	20	0.25	1	32.4	0.25	0.5	2	1	0.13	5	0.04	5	1.67	107	0.5	0.08	0.5	70	1	0.005	2.5	0.5	82	10	0.005	5	5	1	5	3
LXB20-001	NQ Core	B287111	119	120	1		B287111	2.42		**3.9**	7.71	2.5	1240	1.3	1	1.69	0.25	6	11	5	1.73	20	2.12	20	0.51	230	0.5	4.26	7	780	9	0.94	2.5	2	1145	10	0.15	5	5	39	10	33
LXB20-001	NQ Core	B287112	120	121	1		B287112	0.017		0.25	7.69	2.5	1360	1.2	1	1.47	0.25	5	13	6	1.6	20	2.39	20	0.54	196	0.5	4.19	5	780	8	0.79	2.5	2	965	10	0.17	5	5	37	5	34
LXB20-001	NQ Core	B287113	121	122	1		B287113	0.013		0.25	8.01	2.5	1420	1.2	1	1.56	0.25	5	11	4	1.66	20	2.56	20	0.63	218	0.5	4.24	5	810	8	0.57	2.5	3	1010	10	0.18	10	5	42	5	38
LXB20-001	NQ Core	B287114	122	123	1		B287114	0.015		0.25	7.78	2.5	1420	1.1	1	1.45	0.25	4	12	6	1.58	20	2.6	30	0.58	203	0.5	4.08	5	800	5	0.58	2.5	2	975	10	0.18	5	5	38	10	35
LXB20-001	NQ Core	B287115	123	124	1		B287115	0.058		0.25	7.88	2.5	1120	1.3	1	1.73	0.25	4	12	5	1.72	20	1.48	30	0.56	224	0.5	4.53	6	820	6	0.71	2.5	3	1070	10	0.18	10	5	39	5	34
LXB20-001	NQ Core	B287116	124	125	1		B287116	0.042		0.25	7.26	2.5	1070	1.2	2	1.61	0.25	4	11	5	1.54	20	1.35	20	0.49	199	0.5	4.34	4	730	6	0.77	2.5	2	935	10	0.16	5	5	36	5	24
LXB20-001	NQ Core	B287117	125	126	1		B287117	0.035		0.25	7.51	2.5	1290	1.3	1	1.64	0.25	4	12	4	1.69	20	2.17	20	0.48	198	0.5	4.07	4	750	8	1.01	2.5	2	1040	10	0.16	5	5	37	10	25
LXB20-001	NQ Core	B287118	126	127	1		B287118	0.054		0.25	7.7	2.5	1080	1.4	4	1.73	0.25	4	11	6	1.64	20	1.77	20	0.52	207	0.5	4.49	6	800	7	1.02	2.5	2	1025	10	0.16	5	5	37	10	30
LXB20-001	NQ Core	B287119	127	128	1		B287119	0.018		0.25	7.45	2.5	1110	1.4	3	1.39	0.25	5	16	5	1.54	20	1.94	20	0.58	176	0.5	4.07	8	710	5	0.65	2.5	3	852	10	0.16	5	5	37	10	32
LXB20-001	OREAS 222 - 1.21g/t	B287120					B287120	1.265		0.25	7.28	13	90	0.25	1	7.67	0.5	45	173	162	7.77	20	0.24	5	4.48	1325	0.5	1.63	116	380	7	0.22	2.5	41	193	10	0.58	5	5	279	5	83
LXB20-001	NQ Core	B287121	128	129	1		B287121	0.019		0.25	7.93	2.5	1210	1.3	1	1.56	0.25	4	13	3	1.49	20	2.11	20	0.62	195	0.5	4.25	8	650	8	0.43	6	3	860	10	0.16	5	5	34	5	31
LXB20-001	NQ Core	B287122	129	130	1		B287122	0.056		0.25	7.9	2.5	1360	1.4	2	1.54	0.25	5	12	3	1.42	20	2.09	20	0.59	177	0.5	4.24	5	680	8	0.5	2.5	2	1165	10	0.16	5	5	33	10	22
LXB20-001	NQ Core	B287123	130	131	1		B287123	0.07		0.25	7.83	2.5	1280	1.4	1	1.65	0.25	4	13	3	1.48	20	1.87	20	0.55	191	0.5	4.29	6	680	5	0.67	2.5	2	1165	10	0.16	5	5	33	5	23
LXB20-001	NQ Core	B287124	131	132	1		B287124	0.011		0.25	8.2	2.5	1410	1.5	1	1.9	0.25	4	13	3	1.54	20	1.69	20	0.51	231	0.5	4.59	6	740	6	0.37	2.5	2	1370	10	0.17	5	5	34	5	34
LXB20-001	NQ Core	B287125	132	132.87	0.87		B287125	0.015		0.25	7.47	2.5	1110	1.4	1	2.2	0.25	7	28	10	1.78	20	1.67	20	0.53	301	2	3.93	16	780	4	0.53	2.5	5	1090	10	0.21	10	5	50	10	32
LXB20-001	NQ Core	B287126	132.87	133.74	0.87		B287126	0.01		0.25	7.81	2.5	1040	1.4	1	2.03	0.25	6	14	6	1.87	20	1.3	20	0.57	326	0.5	4.31	7	830	2	0.6	2.5	3	1090	10	0.19	10	5	39	10	36
LXB20-001	NQ Core	B287127	133.74	134.74	1		B287127	0.03		0.25	7.84	2.5	360	1.1	1	6	0.25	33	113	148	7.44	20	1.7	10	1.65	2140	6	2.43	69	850	3	0.91	2.5	27	420	10	0.57	5	5	168	10	110
LXB20-001	NQ Core	B287128	134.74	136	1.26		B287128	0.0025		0.25	8.33	2.5	140	0.9	1	6.59	0.25	33	109	119	9.27	20	1.05	10	1.98	2810	5	1.72	75	900	3	0.72	2.5	29	344	10	0.56	5	5	172	5	111
LXB20-001	NQ Core	B287129	136	137.5	1.5		B287129	0.005		0.25	8.15	2.5	90	0.8	2	6.56	0.25	31	119	136	10.3	20	0.82	10	2.63	2800	5	1.23	74	950	3	1.26	2.5	29	383	10	0.59	5	5	183	5	112
LXB20-001	Blank	B287130					B287130	0.0025		0.25	0.07	2.5	20	0.25	1	33.4	0.25	0.5	2	1	0.14	5	0.01	5	1.81	113	0.5	0.03	0.5	70	1	0.005	2.5	0.5	82	10	0.01	10	5	1	5	3
LXB20-001	NQ Core	B287131	137.5	139	1.5		B287131	0.0025		0.25	8.22	2.5	170	0.8	1	5.32	0.25	41	125	93	8.21	20	1.46	10	3.24	1675	2	1.15	82	890	1	0.82	2.5	32	476	10	0.61	10	5	200	5	110
LXB20-001	NQ Core	B287132	139	140.5	1.5		B287132	0.0025		0.25	8.52	2.5	220	0.6	1	4.07	0.25	39	148	94	5.13	20	1.4	10	3.05	735	0.5	1.74	99	820	1	0.32	2.5	31	314	10	0.69	5	5	206	5	114
LXB20-001	NQ Core	B287133	140.5	141.94	1.44		B287133	0.0025		0.25	8.48	2.5	270	0.5	5	4.88	0.25	50	169	133	5.65	20	1.25	10	2.84	877	0.5	1.97	118	660	1	0.51	2.5	32	299	10	0.72	5	5	244	5	131
LXB20-001	NQ Core	B287134	141.94	143.44	1.5		B287134	0.0025		0.25	8.3	2.5	190	0.25	1	5.09	0.25	53	158	141	5.75	20	1.27	5	2.62	911	0.5	1.78	128	650	3	0.5	2.5	32	233	10	0.65	5	5	214	5	132
LXB20-001	NQ Core	B287135	156.6	158.1	1.5		B287135	0.038		0.25	8.81	2.5	270	0.6	1	5.74	0.25	56	228	113	5.35	20	1.28	5	1.48	1440	1	1.96	163	650	1	0.49	2.5	34	376	10	0.71	5	5	230	5	123
LXB20-001	NQ Core	B287136	158.1	158.66	0.56		B287136	0.098		0.25	8.3	2.5	540	1.5	1	2.29	0.25	16	25	9	2.1	20	0.79	30	0.61	389	0.5	4.06	13	810	2	0.56	2.5	4	820	10	0.22	5	5	43	5	42
LXB20-001	NQ Core	B287137	158.66	160.16	1.5		B287137	0.069		0.25	8.81	2.5	150	0.5	1	6.45	0.25	51	209	159	7.78	20	0.94	5	1.76	2310	1	1.27	123	770	2	0.67	2.5	37	374	10	0.69	5	5	227	5	93

Surveys

Hole #	Date Measured	Shift	Depth (m)	Azimuth	Corrected Azimuth	Dip	Magnetic Field	Dev	Temp (deg C)	Comments
LXB20-001	3-Dec-12		36.0	189.71	178.06	-49.59	54400	74.15		
LXB20-001	4-Dec-12	D	87.0	190.22	178.57	-49.65	56674	72.48		
LXB20-001	4-Dec-12	N	138.0	174.94	163.29	-49.49				Possible tool error
LXB20-001	4-Dec-12		162.0	189.71	178.06	-49.48	55818	72.83		

Lith_1	Description	Lith_2	Description
FEI	Felsic Intrusive Rocks	FDK	Felsic Intrusive Dyke
FEI	Felsic Intrusive Rocks	GRN	Granite
FEI	Felsic Intrusive Rocks	TON	Tonalite
FEI	Felsic Intrusive Rocks	PEG	Pegmatite
FVL	Felsic Volcanic Rocks	FVC	Felsic Volcaniclastic Rock
FVL	Felsic Volcanic Rocks	FVF	Felsic Flow
INI	Intermediate Intrusive Rocks	IDK	Intermediate Dyke
INI	Intermediate Intrusive Rocks	GND	Granodiorite
INI	Intermediate Intrusive Rocks	SYE	Syenite
INI	Intermediate Intrusive Rocks	DIO	Diorite
IVL	Intermediate Volcanic Rocks	IVC	Intermediate Volcaniclastic Rock
IVL	Intermediate Volcanic Rocks	IVF	Intermediate Flow
MAI	Mafic Intrusive Rock	MDK	Mafic Dyke
MAI	Mafic Intrusive Rock	GAB	Gabbro
MAI	Mafic Intrusive Rock	DIA	Diabase Dyke
MAI	Mafic Intrusive Rock	LMP	Lamprophyre
MAI	Mafic Intrusive Rock	ANO	Anorthosite
MVL	Mafic Volcanic Rocks	MVC	Mafic Volcaniclastic Rock
MVL	Mafic Volcanic Rocks	MVF	Mafic Flow
UMA	Ultramafic Intrusive Rocks	UDK	Ultramafic Dyke
UMA	Ultramafic Intrusive Rocks	UMV	Ultramafic Volcanic
UMA	Ultramafic Intrusive Rocks	PRD	Peridotite
UMA	Ultramafic Intrusive Rocks	PXT	Pyroxenite
UMA	Ultramafic Intrusive Rocks	DUN	Dunite
POR	Porphyry	FSP	Feldspar Porphyry
POR	Porphyry	FQP	Feldspar>Quartz Porphyry
POR	Porphyry	QFP	Quartz>Feldspar Porphyry
POR	Porphyry	QZP	Quartz Porphyry
SDC	Sedimentary Rock - Chemical	CHT	Chert
SDC	Sedimentary Rock - Chemical	IFM	Iron Formation
SDS	Sedimentary Rock - Siliciclastic	MUD	Mudstone-dominant
SDS	Sedimentary Rock - Siliciclastic	SIL	Siltstone-dominant
SDS	Sedimentary Rock - Siliciclastic	SND	Sandstone-dominant
SDS	Sedimentary Rock - Siliciclastic	CON	Conglomerate
SDS	Sedimentary Rock - Siliciclastic	GWK	Greywacke
SDS	Sedimentary Rock - Siliciclastic	LMS	Limestone
VEI	Veins	QZV	Quartz Vein
VEI	Veins	QAV	Quartz Ankerite Vein
VEI	Veins	AKV	Ankerite Vein
VEI	Veins	CAV	Calcite Vein
VEI	Veins	QCV	Quartz Calcite Vein
NRC	No Recovered Core	NRC	No Recovered Core
OVB	Overburden	OVB	Overburden

Deformation:	Code:
Amphibolite	amp
Chlorite Carbonate Schist	cbs
Chlorite Schist	cls
Fault	flt
Gneiss	gne
Greenschist Facies	gsc
Hornfels	hfs
Meta-Pelite	mpl
Migmatite	mgm
Moderate Shear	msh
Mylonite	myl
Phyllite	phl
Protomylonite	pmy
Quartz Sericite Schist	qss
Schist	sch
Sericite Carbonate Schist	sbs
Sericite Chlorite Schist	scs
Sericite Schist	srs
Serpentinite	srp
Strong Shear	ssh
Talc Schist	tcs
Weak Shear	wsh
Foliated	fol
Damage Zone (Interlocking fract	dzn
Breccia	bx
Breccia - crackle	bxc
Fracture Set	fcs
Fold	fd
Fracture	fr
Fault	ft
Fault Gouge	ftg
Fault Breccia	fx
Fault Zone	fz
Joint set	js
Structural Breccia	sbx
Fault breccia (incohessive)	fbx
Fault gouge	fg
Protoclasite (10-50% matrix)	pcl
Cataclasite (50-90% matrix)	ccl
Ultraclasite (>90% matrix)	ucl
breccia, crackle (75-100% large c	crbx
breccia, mosaic (60-75% large cla	mobx
chaotic breccia (30-60% large cla	chbx
Mylonite	my
Shear	sh
Shear zone	shz
Vein	vn

Rock Texture:	Code:
Agglomerate	agg
Amygdaloidal	amy
Ash tuff	atu
Autobrecciated	abx
Banded	ba
Bedded	bed
Bleached	ble
Bombs	bom
breccia	bx
Chilled Margins	chm
Colloform	col
Cross-bedded	xbd
Crystal Tuff	xtu
Flow Top Breccia	ftb
Folded	fld
Foliated	fol
Graded Bedding	gbd
Intrusive	in
Lapilli tuff	ltu
Lithic Fragments	lth
Massive	mx
Needles	nl
Pegmatite	peg
Pillow Breccia	pil-bx
Pillows	plw
Porphyritic	por
Pyroclastic	pc
Spinifex	spx
Turbidite	trb
Variolitic	var
Vuggy	vgy

Rock Colour	Code:
beige/buff	buf
black	bla
bleached	ble
blue	blu
blue-grey	blg
brown	bro
cream	crm
green	grn
green - dark	gnd
green - light	gnl
green-blue	gnb
grey	gry
grey - dark	gyd
grey - light	gyl
grey-green	gyg
grey-pink	gyp
orange	ora
pink	pnk
pink-green	pkg
purple	pur
red	red
rusty	rus
white	wht
yellow	yel
smokey	smk

Grain Size:	Code:
Glassy	gls
Aphanitic/Muc	vfg
0.001-0.1 mm	fg
0.1 - 2 mm	mg
2-20 mm	cg
>20 mm	vcg

Alt:	Code:
Biotite	bt
Carbonate (Ankerite, Siderite)	cb
Chlorite	chl
Epidote	ep
Fuchsite (green mica)	fch
Hematite	hem
K-feldspar	kf
Leucoxene	leu
Sericite	ser
Silica	sil
Bleaching	ble

Alt Int:	Code:
Weak	1
Moderate	2
Strong	3

Alt Texture	Code
aphanitic	ap
banded or bands	ba
fibrous	fbs
granular	gr
infill	in
laminated	lm
mottled	ml
Overprint	op
patchy	pa
pervasive	pe
pseudomorphic	ps
replacement	rp
stratibound	stb
selvage	sv
Weathering	we
Infill Fracture Fill	iff

Mineralization:	Code:
Arsenopyrite	as
Chalcopyrite	cp
Galena	ga
Molybdenum	mo
Pyrite	py
Pyrrhotite	po
Sphalerite	sp
Stibnite	sb
Gold - visible	VG

Mineralization Other	Code
Silver	ag
Argentite (Ag2S)	ags
Azurite	az
Bornite	bo
Chalcocite	chc
Copper oxide	cox
Copper	cu
Covellite	cv
Ferrimolybdenite	fmo
Ilmenite	ilm
Marcarsite	mar
Malachite	mc
Molybdenite	mo
Molybdenite oxide	mox
Magnetite	mt
Tellurium	nte
Pentlandite	pt
Rutile	rut
Scorodite	sco
Scheelite	shl
Specularite	spe
Tenorite	ten
Titanite (Sphene)	ttn
Tetrahedrite	ttr
Gold - visible	VG
Unknown	unk

Mineralization Texture	Code:
banded or bands	ba
blebby	bl
grain - coarse grain(2-5	cg
disseminated	do
euhedral	eu
grain - fine	fg
granular	gr
infill - fracture	if
infill	in
laminated	lm
matrix	ma
grain - medium	mg
matchhead (1-4mm)	mh
massive	mx
needle	nl
network	nt
Overprint	op
patchy	pa
porphyroblastic	pbc
pinhead (<1mm)	pd
pervasive	pe
phenocrysts	ph
pinpoint (<<1mm)	pp
pseudomorphic	ps
replacement	rp
subhedral	sb
semi-massive	sm
stringer	sr
grain - very fine	vfg
halo at the vein/veinlet	vh
vein margin/at contact	vm
web	wb
wispy	ws

Structure Type:	Code
Ankerite Vein	AKV
Fold Axis	ax
Breccia	bx
Breccia - crackle	bxc
Calcite Vein	CAV
Cleavage	cv
Fold Axial Surface	fas
Fracture Set	fcs
Fold limb	fd
Fracture	fr
Fault	ft
Fault Gouge	ftg
Fault Breccia	fx
Fault Zone	fz
Bedding - graded	gb
Contact geologic	gc
Contact - lower	gcl
Contact - upper	gcu
Joint set	js
Joint	jt
Lineation	ln
Mylonite	my
Quartz Carbonate Vein	QCV
Quartz-Ankerite Vein	QAV
Quartz Vein	QZV
Rip-up clast	ruc
Bedding	S0
Foliation, schistosity	S1
Foliation, schistosity	S2
Crenulation	S3
Shear	sh
Shear zone	shz
Slip	slp
Slump	smp
Stringer	sr
Slickensides	ss
Stockwork	sw
Tops down hole	tpD
Tops up hole	tpU
Vein	vei
Bull-White Quartz Vein	WQV
Alteration Band	ab

Vein	Code:
calcite	CAV
carbonate	CBV
colloform	COL
epidote	EPV
quartz	QZV
quartz-carbonate	QCV
quartz-ankerite	QAV

Vein Mineral	Code:
Actinolite	act
Albite	ab
Alunite	alu
Amphibole	amp
Andalusite	and
Anhydrite	anh
Ankerite	ank
Anorthite	anr
Anthophyllite	an
Apatite	ap
Argentite (Ag2S)	ags
Arsenopyrite	as
Azurite	az
Barite	bar
Biotite	bio
Bornite	bo
Calcite	ca
Carbonate (Ankerite, Siderite)	cb
Chalcocite	chc
Chalcopyrite	cpy
Chlorite	chl
Cinnabar	cin
Clay	cy
Clay/Argillic	arg
Clinopyroxene	cpx
Copper	cu
Copper oxide	cox
Corderite	co
Covellite	cv
Dickite	dck
Diopside	dio
Dolomite	dol
Epidote	ep
Feldspar	fx
Felsics	fel
Fluorite	flu
Fuchsite (green mica)	fu
Galena	gal
Garnet	gt
Goethite	go
Gold - visible	VG
Graphite	gph
Grunerite	gr
Gypsum	gy
Hematite	hem
Hornblende	hb
Illite	il
Ilmenite	ilm
Iron oxide	feo
Jarosite	ir
Jasper	jp
Kaolinite	ka
K-spar	kf
Leucoxene	leu
Limonite	li
Magnesite	mgs
Magnetite	mt
Malachite	mc
Manganese Oxide	mno
Marcarsite	mar
Microcline	mcr
Molybdenite	mo
Molybdenite oxide	mox
Muscovite	mv
Opal	op
Pentlandite	pt
Plagioclase	pf
Pyrite	py
Pyrite oxide	pyx
Pyrophyllite	pp
Pyroxene	px
Pyrrhotite	po
Quartz	qz
Realgar	rea
Rhodocrosite	rhc
Rhodonite	rhd
Rutile	rut
Scheelite	shl
Scorodite	sco
Sericite	ser
Serpentine	spt
Siderite	sid
Silica	sil
Sillimanite	sm
Silver	ag
Smectite	sme
Specularite	spe
Sphalerite	sph
Spinel	spl
Staurolite	st
Stibnite	sb
Sulphide Oxide (rust, gossan)	sux
Talc	tc
Tellurium	nte
Tenorite	ten
Tetrahedrite	ttr
Titanite (Sphene)	ttn
Topaz	tz
Tourmaline	to
Tremolite	trm
Unknown	unk
Zoisite	zoi

Vein Texture	Code
banded or bands	ba
boudinaged	bo
breccia	bx
coliform	col
convoluted	cv
Crack-Seal	cs
cross-cutting	xc
discontinuous	dc
extensional veins	xtv
fibrous	fbs
fold - ptygmatic	pty
folded	fld
graphitic	gh
halo at the vein/veinlet selvages	vh
infill	if
infill - fracture	iff
laminated	lam
Mottled	mo
open-space-fill	osf
Overprint	op
pinch & swell	pas
replacement	rep
rootless	rot
Salt and Pepper	sp
selvage thicker than vein thickness	sl
sheeted veins	sht
sigmoidal	sig
sinuous	sn
Smoky	smk
stockwork	sw
stratiform	sf
stringer	str
stylolite	sty
tension cracks	tc
vein set	vs
vuggy	vy
web	wb
wispy	ws
massive	mx

UVR	Ultramafic Metavolcanics	1
MVR	Mafic Metavolcanics	2
IVR	Intermediate Metavolcanics	3
FVR	Felsic Metavolcanics	4
CLA	Clastic Sediments	5
CHE	Chemical Metasediments	6
SCH	Schist	7
UIR	Ultramafic Meta-intrusives	8
MIR	Mafic Meta-intrusives	9
FIR	Felsic to Intermediate Meta-intrusives	10
TIM	Timiskaming-Type Metasedimentary Rocks	11
POR	Porphyry Intrusives	12
LSZ	Late Structural Zones	13
DIA	Diabase Dykes	14
QUA	Overburden	15

GV Code	Code	LONG DESCRIPTION	SHORT DESCRIPTION
UVR	1	Ultramafic Volcanic - Undifferentiated	Ultramafic Volcanic - Undifferentiated
	1a	Massive flow	Massive flow
	1b	Polysutured flow	Polysutured flow
	1c	Spinifex Textured Flow	Spinifex Textured Flow
	1d	Green Carbonate Altered Flow	Green Carbonate Altered Flow
	1e	Grey-Brown Carbonate Altered Flow	Grey-Brown Carbonate Altered Flow
MVR	2	Mafic Volcanic - Undifferentiated	Mafic Volcanic - Undifferentiated
	2a	Massive flow	Massive flow
	2b	Pillowed flow	Pillowed flow
	2c	Variolitic flow	Variolitic flow
	2d	Spherulitic flow	Spherulitic flow
	2e	Porphyritic Flow	Porphyritic flow
	2f	Amygdaloidal flow	Amygdaloidal flow
	2g	Flow top breccias	Breccia
	2h	Interflow sediments	Interflow sediments
	2i	Tuff	Tuff
	2j	Crystal Tuff	Crystal Tuff
	2k	Lithic Tuff	Lithic Tuff
	2l	Crystal - Lithic Tuff	Crystal - Lithic Tuff
	2m	Lapilli Tuff	Lapilli Tuff
	2n	Tuff breccia	Tuff breccia
	2o	Agglomerate	Agglomerate
IVR	3	Intermediate Volcanic - Undifferentiated	Intermediate Volcanic - Undifferentiated
	3a	Massive flow	Massive flow
	3b	Pillowed flow	Pillowed flow
	3c	Variolitic flow	Variolitic flow
	3d	Spherulitic flow	Spherulitic flow
	3e	Porphyritic Flow	Porphyritic flow
	3f	Amygdaloidal flow	Amygdaloidal flow
	3g	Flow top breccias	Breccia
	3h	Interflow sediments	Interflow sediments
	3i	Tuff	Tuff
	3j	Crystal Tuff	Crystal Tuff
	3k	Lithic Tuff	Lithic Tuff
	3l	Crystal - Lithic Tuff	Crystal - Lithic Tuff
	3m	Lapilli Tuff	Lapilli Tuff
	3n	Tuff breccia	Tuff breccia
	3o	Agglomerate	Agglomerate
FVR	4	Felsic Volcanic - Undifferentiated	Felsic Volcanic - Undifferentiated
	4a	Massive flow	Massive flow
	4b	Flow banded flow	Flow banded flow
	4c	Variolitic flow	Variolitic flow
	4d	Spherulitic flow	Spherulitic flow
	4e	Porphyritic Flow	Porphyritic flow
	4f	Amygdaloidal flow	Amygdaloidal flow
	4g	Flow top breccias	Breccia
	4h	Interflow sediments	Interflow sediments
	4i	Tuff	Tuff
	4j	Crystal Tuff	Crystal Tuff
	4k	Lithic Tuff	Lithic Tuff
	4l	Crystal - Lithic Tuff	Crystal - Lithic Tuff
	4m	Lapilli Tuff	Lapilli Tuff
	4n	Tuff breccia	Tuff breccia
	4o	Agglomerate	Agglomerate
CLA	5	Clastic Sediments - Undifferentiated	Clastic Sediment - Undifferentiated
	5a	Mudstone	Mudstone
	5b	Siltstone	Siltstone
	5c	Argillite	Argillite
	5d	Wacke	Wacke
	5e	Arenite	Arenite
	5f	Conglomerate	Conglomerate
CHE	6	Chemical Sediments - Undifferentiated	Chemical Sediments - Undifferentiated
	6a	Iron Formation unsubdivided	Iron Formation
	6b	Oxide Facies Iron Formation	Oxide IF
	6c	Carbonate Facies Iron Formation	Carbonate IF
	6d	Sulfide Facies Iron Formation	Sulfide IF
	6e	Silicate Facies Iron Formation	Silicate IF
	6f	Chert	Chert
	6g	Graphitic sediments	Marker Horizon
SCH	7	Schsit - Undifferentiated	Schsit - Undifferentiated
	7a	Sericite schist	Sericite schist
	7b	Quartz-sericite Schist	Quartz-sericite Schist
	7c	Carbonate-sericite Schist	Carbonate-sericite Schist
	7d	Chlorite Schist	Chlorite Schist
	7e	Quartz-chlorite Schist	Quartz-chlorite Schist
	7f	Carbonate-chlorite Schist	Carbonate-chlorite Schist
	7g	Talc Schist	Talc Schist
	7h	Talc-chlorite Schist	Talc-chlorite Schist
	7i	Carbonate-talc Schist	Carbonate-talc Schist
UIR	8	Ultramafic Intrusive - Undifferentiated	Ultramafic Intrusive - Undifferentiated
	8a	Hornblendite	Hornblendite
	8b	Pyroxenite	Pyroxenite
	8c	Wehrlite	Wehrlite
	8d	Websterite	Websterite
	8e	Dunite	Dunite
	8f	Lherzolite	Lherzolite
	8g	Peridotite	Peridotite
	8h	Serpentinite	Serpentinite
MIR	9	Mafic Intrusive - Undifferentiated	Mafic Intrusive - Undifferentiated
	9a	Gabbro	Gabbro
	9b	Diorite	Diorite
	9c	Granophyre	Granophyre
	9d	Norite	Norite
	9e	Anorthosite	Anorthosite
FIR	10	Felsic Intrusive - Undifferentiated	Felsic Intrusive - Undifferentiated
	10a	Granite	Granite
	10b	Granodiorite	Granodiorite
	10c	Tonalite	Tonalite
	10d	Trondhjemite	Trondhjemite
	10e	Syenite	Syenite
	10f	Quartz syenite	Quartz syenite
	10g	Monzonite	Monzonite
	10h	Quartz monzonite	Quartz monzonite
	10i	Quartz diorite	Quartz diorite
TIM	11	Timiskaming Rock - Undifferentiated	Timiskaming Rock - Undifferentiated
	11a	Mudstone	Mudstone
	11b	Siltstone	Siltstone
	11c	Argillite	Argillite
	11d	Wacke	Wacke
	11e	Arenite	Arenite
	11f	Conglomerate	Conglomerate
	11g	Iron Formation	Iron Formation
	11h	Alkalic Volcanics	Alkalic Volcanics
	11i	Alkalic Intrusives	Alkalic Intrusives
	11j	Lamprophyre	Lamprophyre
POR	12	Porphyry - Undifferentiated	Porphyry - Undifferentiated
	12a	Quartz - Feldspar porphyry	Quartz - Feldspar porphyry
	12b	Feldspar porphyry	Feldspar porphyry
	12c	Quartz porphyry	Quartz porphyry
	12d	Quartz porphyry	Quartz porphyry
	12e	Hornblende - Feldspar porphyry	Hornblende - Feldspar porphyry
	12f	Hornblende porphyry	Hornblende porphyry
	12g	Albitite	Albitite
	12h	Lamprophyre	Lamprophyre
LSZ	13	Late Structure - Undifferentiated	Late Structure - Undifferentiated
	13a	Shear Zone	Shear Zone
	13b	Breccia Zone	Breccia Zone
	13c	Fault Zone (gouge)	Fault Zone (gouge)
DIA	14	Diabase Dyke - Undifferentiated	Diabase Dyke - Undifferentiated
	14a	Matachewan dyke	Matachewan dyke
	14b	Abitibi dyke	Abitibi dyke
	14c	Sudbury	Sudbury
	14d	Nipissing dyke	Nipissing dyke
QUA	15	Overburden	Overburden
VEIN	16	Vein - Undiferntiated	Vein - Undiferntiated
	16a	Quartz Vein	Quartz Vein
	16b	Quartz-Carbonate Vein	Quartz-Carbonate Vein

Mark Quality	Interpretation
0	No mark or spurios mark, i.e. loose core, equipment problems, etc.
1	Poor – Angular uncertainty > 10°
2	Acceptable – Angular uncertainty ± 10°
3	Good – Angular uncertainty ± 5°
4	Excellent – Angular uncertainty < 2°

Line Quality	Interpretation
0	No line or clearly problematic line
1	Run locks with one or more runs with a lock angle >20°
2	Run does not lock with another run, so it is not independently validated.
3	Run locks with another run; lock angle between 10° – 20°
4	Run locks with another run, lock angle between 2° – 10°
5	Perfect lock with three or more runs.

Oreinted Line Extension	
Yes	Y
No	N

Type
NQ Core
OREAS 222 - 1.21g/t
OREAS 228b - 8.49g/t
OREAS 257b - 14.7g/t
Blank

PROJECT:	Blakelock	**Prospect:**		**AZIMUTH (Planned):**	180	**LAB:**	ALS
HOLE:	LXB20-002	**LEASE NUMBER:**		**DIP (Planned):**	-50	**Surveyed:**	Y
		GRID:		**AZIMUTH (First Down-Hole Survey):**	181.97	**APS:**	Y
COMPANY:	LaSalle Exploration Corp.	**GRID NORTHING:**		**DIP (First Down-Hole Survey):**	-51.21	**Survey TYPE:**	Devico
DRILLER:	RJLL Drilling	**GRID EASTING:**		**DEPTH (m):**	324		
DRILL START:	12-09-2020	**COLLAR SURVEY:**	Yes	**CORE SIZE:**	NQ		
DRILL STOP:	12-15-2020	**UTM DATUM:**	NAD 83	**MAGNETIC DECL'N:**	11.65 W		
LOGGER:	Adam Findley/Emily McAllister	**UTM ZONE:**	17	**CASING DEPTH (m):**	15		
TECH:	AF/AS/EM	**UTM NORTHING:**	5480890.9	**CASING LEFT:**	Y		
LOGGED:	Cochrane ON	**UTM EASTING:**	564960.2	**HOLE PLUGGED:**	N		
CORE STORED:	Expedition	**ELEVATION (m):**	309.91	**HOLE CAPPED:**	Y		

LaSalle Exploration Corp.

Geology Highlights

From	To	Interval	Code	Description
146.32	146.66	0.34	**10i**	Sheared quartz diorite with strong S2 (51 TCA), stretched feldspar + boundinaged quartz veins; 5% fg py
184.15	184.70	0.55	**10i**	Strong foliation fabric (S2 - 65) at margins with a diffuse core; 5% fg py
260.98	262.20	1.22	**2**	Moderately to strongly foliated mafic host (S2 @67-75 TCA), hosting 10-15% mg py

Location Map

SIGNIFICANT MIN ZONE RESULTS

From (m)	To (m)	Interval	Au (g/t)	Ag (g/t)	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm

Geotechnical Information

Interval			Recovery		RQD		Orientation					Comment
From (m)	To (m)	Interval (m)	Recovered Core (m)	Total Core Recovery %	CORE >10cm	RQD %	Mark Depth	Mark Quality	Lock Angle	Line Quality	Line extended from previous run (Y/N)	
15.00	18.00	3.00	3.00	100.0%	2.19	73.0%		0.00				
18.00	21.00	3.00	3.00	100.0%	2.86	95.3%		0.00				
21.00	24.00	3.00	3.00	100.0%	3.00	100.0%		0.00				
24.00	27.00	3.00	3.00	100.0%	2.95	98.3%		0.00				
27.00	30.00	3.00	3.00	100.0%	2.73	91.0%		4.00		2.00		Isolated piece with mark, broken core @29.97m, line cant be drawn back
30.00	33.00	3.00	3.00	100.0%	2.87	95.7%		0.00				
33.00	36.00	3.00	3.00	100.0%	2.45	81.7%		0.00				
36.00	39.00	3.00	3.00	100.0%	2.73	91.0%		3.00		2.00		3/4 line was drawn well on bottom of core - dashed line drawn back to 36.60m (no line confidence)
39.00	42.00	3.00	3.00	100.0%	2.79	93.0%		4.00	1.00	4.00		Line drawn back to mark at 39m block - excellent lock
42.00	45.00	3.00	3.00	100.0%	2.90	96.7%		1.00		2.00		Broken core @44.60m, mark appears to be @190 to previous two marks, spun core at the end of the run
45.00	48.00	3.00	3.00	100.0%	2.80	93.3%		4.00		2.00		Line drawn back to 45.92m (spun core), bottom of core mark consisten with the run that locked up the hole
48.00	51.00	3.00	3.00	100.0%	2.72	90.7%		0.00			Y	Line extended forward from previous run to 50.08m
51.00	54.00	3.00	3.00	100.0%	2.88	96.0%		4.00		2.00		Poor fit + broken core from 53.68-53.72m
54.00	57.00	3.00	3.00	100.0%	2.52	84.0%		0.00				
57.00	60.00	3.00	3.00	100.0%	2.54	84.7%		0.00				
60.00	63.00	3.00	3.00	100.0%	2.95	98.3%		0.00				
63.00	66.00	3.00	3.00	100.0%	2.45	81.7%		0.00				mark not at block interval
66.00	69.00	3.00	2.98	99.3%	2.46	82.6%		0.00				
69.00	72.00	3.00	2.90	96.7%	2.78	95.9%		0.00				
72.00	75.00	3.00	2.80	93.3%	1.16	41.4%		0.00				
75.00	78.00	3.00	2.92	97.3%	0.89	30.5%		0.00				
78.00	81.00	3.00	3.00	100.0%	2.13	71.0%		0.00				
81.00	84.00	3.00	2.92	97.3%	2.28	78.1%		0.00				
84.00	87.00	3.00	3.00	100.0%	2.52	84.0%		0.00				
87.00	90.00	3.00	3.00	100.0%	2.25	75.0%		0.00				no mark
90.00	93.00	3.00	2.79	93.0%	0.61	21.9%		0.00				
93.00	96.00	3.00	3.00	100.0%	0.50	16.7%		0.00				
96.00	99.00	3.00	3.00	100.0%	0.34	11.3%		0.00				no mark highly fractured ground
99.00	102.00	3.00	2.97	99.0%	0.47	15.8%		0.00				no mark highly fractured ground
102.00	105.00	3.00	3.00	100.0%	0.33	11.0%		0.00				no mark highly fractured ground
105.00	108.00	3.00	2.70	90.0%	0.93	34.4%		0.00				
108.00	111.00	3.00	2.95	98.3%	1.50	50.8%		4.00		2.00		able to lock into next run with inferred line
111.00	114.00	3.00	2.94	98.0%	1.68	57.1%		0.00				
114.00	117.00	3.00	2.98	99.3%	1.40	47.0%		4.00		2.00		could not orient to prev pieces, spun core. locked into next unit with inferred line.
117.00	120.00	3.00	2.95	98.3%	1.40	47.5%		4.00		2.00		core did not lock
120.00	123.00	3.00	2.55	85.0%	1.09	42.7%		4.00		2.00		able to lock into next interval for infeered line
123.00	126.00	3.00	2.94	98.0%	0.95	32.3%		0.00				
126.00	129.00	3.00	2.92	97.3%	1.40	47.9%		0.00				
129.00	132.00	3.00	2.91	97.0%	1.92	66.0%		4.00		2.00		did not lock in with other pieces
132.00	135.00	3.00	3.00	100.0%	1.68	56.0%		0.00				
135.00	138.00	3.00	2.61	87.0%	1.26	48.3%		0.00				
138.00	141.00	3.00	2.07	69.0%	0.58	28.0%		0.00				2 ft (61cm) core dropped
141.00	144.00	3.00	3.00	100.0%	1.80	60.0%		0.00				poor recover with mixed up units through next 4 intervals
144.00	147.00	3.00	2.70	90.0%	1.00	37.0%		0.00				
147.00	150.00	3.00	2.98	99.3%	1.00	33.6%		0.00				no mark
150.00	153.00	3.00	2.82	94.0%	1.36	48.2%		0.00				
153.00	156.00	3.00	2.77	92.3%	0.73	26.4%		0.00				
156.00	159.00	3.00	3.00	100.0%	0.90	30.0%		0.00				
159.00	162.00	3.00	2.78	92.7%	2.17	78.1%		0.00				
162.00	165.00	3.00	3.00	100.0%	1.74	58.0%		0.00				
165.00	168.00	3.00	3.00	100.0%	1.21	40.3%		0.00				
168.00	171.00	3.00	2.86	95.3%	1.20	42.0%		0.00				
171.00	174.00	3.00	2.84	94.7%	1.05	37.0%		0.00				no mark
174.00	177.00	3.00	3.00	100.0%	1.37	45.7%		0.00				no mark, fracture at block
177.00	180.00	3.00	2.84	94.7%	1.00	35.2%		0.00				no mark
180.00	183.00	3.00	3.00	100.0%	1.12	37.3%		0.00				
183.00	186.00	3.00	3.00	100.0%	2.10	70.0%		0.00				mark not at block
186.00	189.00	3.00	2.80	93.3%	1.14	40.7%		4.00		2.00		mark was able to carry through 10 cm to next interval inffered
189.00	192.00	3.00	2.94	98.0%	1.30	44.2%		0.00				
192.00	195.00	3.00	3.00	100.0%	1.95	65.0%		1.00		0.00		mark did not align with line
195.00	198.00	3.00	2.74	91.3%	0.88	32.1%		0.00				
198.00	201.00	3.00	3.00	100.0%	1.28	42.7%		0.00				
201.00	204.00	3.00	2.90	96.7%	1.90	65.5%		4.00		2.00		line extended 10cm, core too broken to orient further
204.00	207.00	3.00	3.00	100.0%	1.23	41.0%		0.00		0.00		
207.00	210.00	3.00	2.63	87.7%	0.99	37.6%		0.00				lots of manual breaks in core
210.00	213.00	3.00	3.00	100.0%	1.39	46.3%		0.00				lots of manual breaks in core
213.00	216.00	3.00	3.00	100.0%	1.46	48.7%		0.00				lots of manual breaks in core
216.00	219.00	3.00	2.86	95.3%	1.65	57.7%		4.00		2.00		lots of manual breaks in core, line good, extended 25cm
219.00	222.00	3.00	3.00	100.0%	1.43	47.7%		0.00				no mark
222.00	225.00	3.00	3.00	100.0%	1.07	35.7%		0.00				no mark
225.00	228.00	3.00	3.00	100.0%	1.64	54.7%		0.00				no mark
228.00	231.00	3.00	3.00	100.0%	1.10	36.7%		0.00				no mark, highly frac ground
231.00	234.00	3.00	3.00	100.0%	2.39	79.7%		0.00				no mark
234.00	237.00	3.00	2.92	97.3%	2.08	71.2%		0.00				no mark
237.00	240.00	3.00	3.00	100.0%	1.82	60.7%		0.00				no mark
240.00	243.00	3.00	3.00	100.0%	1.43	47.7%		0.00				no mark
243.00	246.00	3.00	3.00	100.0%	1.84	61.3%		0.00				no mark
246.00	249.00	3.00	3.00	100.0%	1.38	46.0%		0.00		0.00		mark made, 2 lines, too thick.
249.00	252.00	3.00	3.00	100.0%	0.48	16.0%		0.00				
252.00	255.00	3.00	2.90	96.7%	1.20	41.4%		0.00				
255.00	258.00	3.00	3.00	100.0%	1.16	38.7%		0.00				no mark
258.00	261.00	3.00	3.00	100.0%	2.32	77.3%		0.00				mark to thick and at 2 angles
261.00	264.00	3.00	3.00	100.0%	2.03	67.7%		0.00				line extended back from 264 block to 263.23m
264.00	267.00	3.00	2.87	95.7%	2.16	75.3%		3.00		2.00	Y	mark wide
267.00	270.00	3.00	3.00	100.0%	2.73	91.0%		4.00		2.00	Y	line extended to 267.83m and back to 266.60m
270.00	273.00	3.00	3.00	100.0%	2.69	89.7%		0.00		0.00		no mark
273.00	276.00	3.00	3.00	100.0%	2.87	95.7%		0.00		0.00		no mark
276.00	279.00	3.00	2.98	99.3%	2.82	94.6%		4.00		3.00	Y	mark extends 2.21m (278.4 to 279.61)
279.00	282.00	3.00	2.99	99.7%	2.83	94.6%		0.00		0.00		no mark
282.00	285.00	3.00	3.00	100.0%	3.00	100.0%		0.00		0.00		no mark
285.00	288.00	3.00	2.90	96.7%	2.72	93.8%		0.00		0.00		
288.00	291.00	3.00	2.93	97.7%	2.63	89.8%		0.00		0.00		
291.00	294.00	3.00	3.00	100.0%	2.91	97.0%		0.00		0.00		
294.00	297.00	3.00	3.00	100.0%	2.57	85.7%		4.00		2.00	Y	293.84-294 marked, 294-294.72 inferred line locking
297.00	300.00	3.00	3.00	100.0%	2.08	69.3%		0.00		0.00		no mark
300.00	303.00	3.00	2.90	96.7%	2.58	89.0%		0.00		0.00		no mark with poor line qaulity
303.00	306.00	3.00	3.00	100.0%	2.77	92.3%		0.00		0.00		poor line qaulity (mark too wide, line has wiped off)
306.00	309.00	3.00	3.00	100.0%	2.88	96.0%		0.00		0.00		line poor qaulity
309.00	312.00	3.00	2.97	99.0%	2.69	90.6%		0.00		0.00		marked twice, line poor quality
312.00	315.00	3.00	3.00	100.0%	2.90	96.7%		0.00		0.00		no mark
315.00	318.00	3.00	2.95	98.3%	2.61	88.5%		0.00		0.00		mark, poor qaulity
318.00	321.00	3.00	2.96	98.7%	2.44	82.4%		0.00		0.00		mark poor qaulity
321.00	324.00	3.00	3.00	100.0%	2.58	86.0%		0.00		0.00		line poor qaulity

Final Recovery (m):	**317.53**
Missing Core (m):	**6.47**
Average RQD (%)	**63.28%**

Box Intervals

Box Number	From	To	Interval	Comments
1	14.68	17.46	2.78	
2	17.46	21.65	4.19	
3	21.65	25.85	4.2	
4	25.85	30.02	4.17	
5	30.02	34.21	4.19	
6	34.21	38.38	4.17	
7	38.38	42.7	4.32	
8	42.7	46.94	4.24	
9	46.94	51.2	4.26	
10	51.2	55.44	4.24	
11	55.44	59.54	4.1	
12	59.54	63.68	4.14	
13	63.68	67.69	4.01	
14	67.69	71.84	4.15	
15	71.84	75.26	3.42	
16	75.26	79.12	3.86	
17	79.12	83.44	4.32	
18	83.44	87.77	4.33	
19	87.77	91.44	3.67	
20	91.44	94.91	3.47	
21	94.91	98.72	3.81	
22	98.72	102.6	3.88	
23	102.6	106.33	3.73	
24	106.33	110.1	3.77	
25	110.1	113.98	3.88	
26	113.98	117.88	3.9	
27	117.88	121.75	3.87	
28	121.75	125.69	3.94	
29	125.69	129.73	4.04	
30	129.73	133.57	3.84	
31	133.57	137.57	4	
32	137.57	142.1	4.53	2ft lost core in this box
33	142.1	145.6	3.5	
34	145.6	149.13	3.53	
35	149.13	153.02	3.89	
36	153.02	157	3.98	
37	157	161.1	4.1	
38	161.1	165.16	4.06	
39	165.16	169.27	4.11	
40	169.27	173.34	4.07	
41	173.34	177.36	4.02	
42	177.36	181.44	4.08	
43	181.44	185.58	4.14	
44	185.58	189.28	3.7	
45	189.28	193.34	4.06	
46	193.34	197.3	3.96	
47	197.3	200.89	3.59	
48	200.89	204.93	4.04	
49	204.93	208.72	3.79	
50	208.72	212.25	3.53	
51	212.25	216.22	3.97	
52	216.22	220.33	4.11	
53	220.33	224.46	4.13	
54	224.46	228.5	4.04	
55	228.5	232.59	4.09	
56	232.59	236.83	4.24	
57	236.83	241.05	4.22	
58	241.05	245.2	4.15	
59	245.2	249.15	3.95	
60	249.15	253	3.85	
61	253	257.1	4.1	
62	257.1	261.17	4.07	
63	261.17	265.25	4.08	
64	265.25	269.43	4.18	
65	269.43	273.76	4.33	
66	273.76	278.07	4.31	
67	278.07	282.23	4.16	
68	282.23	286.59	4.36	
69	286.59	290.9	4.31	
70	290.9	295.25	4.35	
71	295.25	299.26	4.01	
72	299.26	303.44	4.18	
73	303.44	307.85	4.41	
74	307.85	312.17	4.32	
75	312.17	316.5	4.33	
76	316.5	320.7	4.2	
77	320.7	324	3.3	EOH

Magnetic Susceptibility

Depth (m)	MS, χ (1 KHz)
15	0.86
15.5	0.64
16	0.6
16.5	0.55
17	0.88
17.5	4.97
18	0.86
18.5	46.5
19	6.19
19.5	9.15
20	3.25
20.5	2.85
21	2.74
21.5	2.32
22	0
22.5	0.07
23	0.13
23.5	0.57
24	0.64
24.5	2.78
25	7.47
25.5	21.8
26	3.98
26.5	57
27	0.31
27.5	2.58
28	3.53
28.5	8.13
29	24.6
29.5	259
30	85.4
30.5	11.4
31	11.1
31.5	0.4
32	4.15
32.5	9.1
33	19.5
33.5	26.1
34	1.55
34.5	15.1
35	13.6
35.5	10.6
36	3.49
36.5	7.89
37	0.35
37.5	2.25
38	18.1
38.5	18.3
39	27.1
39.5	43.4
40	25.8
40.5	11.8
41	4.75
41.5	21.8
42	29.2
42.5	20.4
43	30.7
43.5	25.4
44	39.7
44.5	30.5
45	0.24
45.5	0.11
46	0
46.5	0.02
47	0.15
47.5	0.15
48	13.9
48.5	17.3
49	33
49.5	33.2
50	58.1
50.5	51.3
51	60.2
51.5	51.6
52	36.7
52.5	31.4
53	48
53.5	50.5
54	11.3
54.5	6.58
55	36.8
55.5	48.4
56	47.8
56.5	74.4
57	0.49
57.5	4.53
58	5.15
58.5	0.13
59	2.78
59.5	5.96
60	4.35
60.5	9.67
61	34.6
61.5	0.8
62	1.63
62.5	1.28
63	4.77
63.5	6.25
64	0.44
64.5	1.02
65	0.84
65.5	1.06
66	0.69
66.5	10.9
67	0.8
67.5	6.92
68	30
68.5	19.6
69	2.06
69.5	1.94
70	14.3
70.5	9.59
71	30.3
71.5	51
72	0.69
72.5	4.55
73	3.78
73.5	0.24
74	0.33
74.5	0.77
75	0.82
75.5	0.11
76	0.42
76.5	0.44
77	0.24
77.5	0.46
78	0.51
78.5	38.3
79	27.2
79.5	97.4
80	46.2
80.5	44.9
81	130
81.5	55.9
82	131
82.5	109
83	136
83.5	95.9
84	90.3
84.5	81.8
85	105
85.5	145
86	14.4
86.5	49.6
87	72.6
87.5	90.9
88	13.8
88.5	36.3
89	9.04
89.5	0.69
90	0.2
90.5	0.24
91	0.29
91.5	0.38
92	0.57
92.5	0.11
93	0.38
93.5	0.51
94	0.44
94.5	0.09
95	0.27
95.5	0.64
96	0.29
96.5	0.27
97	0.53
97.5	0.11
98	0.33
98.5	0.2
99	0.55
99.5	0.04
100	0.04
100.5	0.02
101	0.04
101.5	0.27
102	1.37
102.5	0
103	0
103.5	0
104	0
104.5	0
105	0.04
105.5	0.15
106	0
106.5	0
107	0
107.5	0
108	0
108.5	0
109	0
109.5	0.27
110	0.11
110.5	0
111	0.07
111.5	0
112	0.04
112.5	0.15
113	0.2
113.5	0.27
114	0.33
114.5	0.35
115	0.68
115.5	0.99
116	0.07
116.5	0.27
117	0.31
117.5	6.85
118	1.5
118.5	1.52
119	5.94
119.5	4.02
120	3.93
120.5	6.56
121	4.79
121.5	6.27
122	4.04
122.5	1.33
123	3.89
123.5	0.93
124	0.35
124.5	0.24
125	0.46
125.5	4.02
126	0.93
126.5	0.53
127	3.71
127.5	3.56
128	0.33
128.5	0.4
129	0.46
129.5	0.55
130	0.71
130.5	0.07
131	0.71
131.5	0.51
132	0.35
132.5	0.62
133	0.6
133.5	0.75
134	2.65
134.5	1.33
135	0.46
135.5	2.85
136	5.86
136.5	4.73
137	2.67
137.5	2.74
138	3.47
138.5	1.88
139	0.29
139.5	3.84
140	3.78
140.5	2.78
141	8.38
141.5	5.72
142	0.95
142.5	0.38
143	0.53
143.5	0.64
144	7.76
144.5	0.64
145	0.73
145.5	1.41
146	0.35
146.5	0.49
147	0.51
147.5	0.75
148	0.97
148.5	1.19
149	1.28
149.5	0.18
150	0.53
150.5	0.8
151	1.28
151.5	2.08
152	2.17
152.5	9.69
153	4.11
153.5	7.08
154	2.1
154.5	0.24
155	0.84
155.5	0.88
156	2.9
156.5	1.22
157	1.02
157.5	0.31
158	0.6
158.5	0.11
159	0.38
159.5	0
160	0.53
160.5	0.27
161	0
161.5	0
162	0.46
162.5	0.04
163	0
163.5	0.18
164	2.83
164.5	0
165	0
165.5	0
166	0
166.5	0.22
167	0.11
167.5	2.48
168	0
168.5	0
169	0.24
169.5	0
170	0
170.5	0
171	0
171.5	0
172	0
172.5	2.01
173	0.04
173.5	0.04
174	0.22
174.5	0.09
175	0.09
175.5	0.09
176	0.11
176.5	0.2
177	0.51
177.5	0.33
178	0.04
178.5	0.49
179	0.22
179.5	0.53
180	0.6
180.5	0.09
181	0.11
181.5	0.24
182	0.31
182.5	0.4
183	0.49
183.5	0.07
184	0.27
184.5	0.27
185	0.42
185.5	0.53
186	0.6
186.5	0.11
187	0.18
187.5	1.19
188	0.35
188.5	0.51
189	0.71
189.5	0.66
190	0.71
190.5	0.11
191	0.2
191.5	0.75
192	0.49
192.5	0.53
193	0.66
193.5	0.77
194	0.82
194.5	0.11
195	0.55
195.5	1.04
196	0.4
196.5	0.53
197	0.62
197.5	0.73
198	0.8
198.5	1.86
199	2.19
199.5	0.24
200	0.31
200.5	0.44
201	0.71
201.5	0.82
202	0.84
202.5	3.62
203	0.46
203.5	0.35
204	1.81
204.5	0.84
205	2.48
205.5	0.84
206	0.35
206.5	0.51
207	0.49
207.5	0.84
208	0.8
208.5	0.91
209	1.11
209.5	0.07
210	0.29
210.5	0.38
211	0.55
211.5	0.6
212	1.02
212.5	0.84
213	0.97
213.5	1.04
214	0.51
214.5	2.12
215	0.57
215.5	0.57
216	0.99
216.5	0.86
217	0.93
217.5	1.15
218	1.95
218.5	0.49
219	1.08
219.5	0.57
220	0.69
220.5	0.13
221	0.35
221.5	0.38
222	0.49
222.5	0.91
223	1.28
223.5	0.15
224	0.33
224.5	0.55
225	0.66
225.5	0.6
226	0.75
226.5	0.86
227	0.93
227.5	0.35
228	1.48
228.5	2.85
229	2.32
229.5	83.1
230	82.1
230.5	57.6
231	79.4
231.5	37.1
232	31.2
232.5	10.4
233	110
233.5	142
234	88
234.5	51
235	85
235.5	72.4
236	63.6
236.5	61.7
237	8.93
237.5	41
238	95.7
238.5	104
239	2.59
239.5	39
240	5.02
240.5	8.91
241	42.1
241.5	51.3
242	171
242.5	12.1
243	3.07
243.5	0.93
244	0.57
244.5	40.7
245	62.5
245.5	22.3
246	69.5
246.5	34.2
247	29.9
247.5	2.14
248	0.15
248.5	0
249	0
249.5	0.09
250	0
250.5	0.27
251	0
251.5	0
252	0.15
252.5	0.09
253	0
253.5	0.02
254	0
254.5	0
255	0
255.5	0.07
256	0
256.5	0
257	0.09
257.5	0
258	0
258.5	0.04
259	0.07
259.5	0
260	0
260.5	0
261	0
261.5	9.3
262	5.48
262.5	0
263	0.2
263.5	7.78
264	0.07
264.5	0.2
265	0.27
265.5	27.2
266	1.02
266.5	9.21
267	116
267.5	28.8
268	31.9
268.5	23.4
269	1.28
269.5	12.1
270	8.15
270.5	0.27
271	2.05
271.5	1.92
272	1.26
272.5	2.63
273	0.68
273.5	5.02
274	1.28
274.5	1.86
275	1.33
275.5	7.45
276	2.65
276.5	10.6
277	0.71
277.5	27
278	1.5
278.5	6.36
279	1.22
279.5	0.84
280	1.75
280.5	0.75
281	0.84
281.5	0.51
282	0.38
282.5	0.64
283	0.44
283.5	1.26
284	0.49
284.5	0.46
285	0.29
285.5	1.68
286	0.97
286.5	14.3
287	1.15
287.5	0.66
288	0.33
288.5	0.38
289	0.53
289.5	0.31
290	0.51
290.5	0.49
291	0.6
291.5	0.42
292	1.79
292.5	0.62
293	0.35
293.5	0.31
294	0.38
294.5	0.6
295	0.38
295.5	0.86
296	0.4
296.5	0.33
297	0.42
297.5	2.01
298	0.6
298.5	0.4
299	8.95
299.5	1.81
300	0.86
300.5	0.66
301	3.27
301.5	0.84
302	0.84
302.5	1.21
303	0.44
303.5	0.4
304	0.53
304.5	18.7
305	0.62
305.5	0.55
306	2.98
306.5	0.62
307	4.02
307.5	0.22
308	0.4
308.5	2.67
309	0.53
309.5	9.63
310	0.82
310.5	1.7
311	8.95
311.5	0.8
312	0.64
312.5	1.08
313	1.02
313.5	1.52
314	1.44
314.5	0.31
315	0.88
315.5	0.64
316	0.95
316.5	0.88
317	4.7
317.5	0.49
318	0.62
318.5	2.83
319	0.55
319.5	0.66
320	1.04
320.5	0.73
321	2.94
321.5	2.01
322	2.16
322.5	0.84
323	1.13
323.5	1.72
324	2.12

EOH

Geological Log

Depth			Rock Type		Deformation		Texture			Physical Properties				COMMENTS
From (m)	To (m)	Interval (m)	Lith Major	Lith Minor	Deformation 1	Intensity 1	Texture 1	Texture 2	Texture 3	Colour 1	Colour 2	Grain Size	Vein %	
0.00	14.68	14.68	**15**											15m of casing, felsic boulders cut + pebbles
14.68	18.60	3.92	**2**		fol	1	mx	plw		gyd	grn	fg	0.1	Massive>>pillowed (rare pillow selvages), cut and brecciated by late calcite vein @15.88m; overall weakly foliated but from 16.34-17.33m moderate foliation @75 TCA w/ fg-mg py spatially associated; sharp lower contact
18.60	26.56	7.96	**2m**		fol	1	ltu			gyd	grn	fg	0.1	Unit highlighted by deformed feldspar xtals, rounded to sheared lapilli (up to 3cm) + rare epidote altered bands, sparsely distributed fg py w/ sections including bands of po +/- cpy; foliation is best developed from the upper contact down to 21.18m; sharp lower contact
26.56	31.38	4.82	**2b**				plw			gyd	grn	fg	0.25	Strong to moderately magnetic, moderate chl-biotite overprint +/- patchy carbonate alteration; 26.90-28.70m 3% fg py filling fractures; cut by late centimetric quartz veins, sharp lower contact
31.38	32.65	1.27	**2j**		fol	1	xtu			gyd		fg	0.1	Similar to 18.60-26.56m lacking lapili, weak to moderate foliation deforming feldspar xtals from 31.48-31.80m; includes minor epi altered bands from 32.46-32.66m; sharp lower contact
32.65	36.56	3.91	**2**				mx	plw		gnd	bla	fg	0.1	Moderatly magnetic mafic flow, moderate to strong chl-bio overprint, 1-2% fg py disseminated throughout; Broken lower contact
36.56	44.69	8.13	**2j**				xtu	mx		gyd		mg	0.5	Moderately magnetic unit having 30% fg-mg feldspar phenos in a fg biotitic matrix, grain boundaries are sub-rounded to sharp;cut by late quartz-veins; fg-mg py disseminated throughout as well as filling fractures, along vein margins and locally at the core of feldspar phenocrysts; Distinct lower contact
44.69	47.81	3.12	**12b**				mx	in		gyl	gyd	cg	1	Unit contains 30-40% sub-rounded, mg-cg feldspar phenorysts in a fg matrix including <1% milimetric rounded quartz phenocrysts + 5% biotite. Thick quartz-vein emplaced at the upper contact, porphyry is also cut by later translucent to grey quartz-veins; 2-3% fg py disseminated between matrix grains (spatial association with biotite not uncommon); in fractures as well as along vein margins; Sharp lower contact
47.81	58.44	10.63	**2j**	**2m**			xtu	ltu		gyd	grn	mg	0.5	Broad unit similar to 36.56-44.69m punctuate by moderate epidote patches as well as kspar alteration (within feldpsar phenos and patchy overprinting of matrix); minor, more massive sections hosting <5% lapili from 54.33-55.52m and 57-58.44m; Possible faulted lower contact (gouge/chl)
58.44	72.34	13.90	**2b**		fol	2	plw	var		gyd	gnl	fg	0.75	Weakly magnetic, strongly fractured + moderately foliated, pillow selvages locally contorted and deformed by foliation; cut by quartz-veins up to 5cm, strong patchy epi-carb alteration down to 63.46m; Unit becomes more variolitic down the hole from 65.10-71.33m; moderately sheared approaching the lower contact; Sharp lower contact
72.34	78.01	5.67	**12**				in	por		gyl		mg	1	Strongly to moderately broken core, intermediate intrusive (diorite/granodiorite), mg-cg, plagioclase rich matrix w/ 10% biotite; unit displays interlocking granitic texture as well as a porphyritic texture punctuated by coarser plagioclase phenocrysts; sharp lower contact; late chlorite filled fractures not uncommon, cut by broadly spaced quartz-vein, 1-3% fine pyrite throughout; sharp lower contact
78.01	89.34	11.33	**2b**	**10i**	fol	1	plw			gnd	gyd	fg	0.5	Strongly magnetic, moderate to weakly foliated from upper contact to 79.12m, cut by sparsely distributed quartz veins up to 11cm, interval is 95% pillowed flow with a minor interval of diorite (10i) from 87.71-88.15m (fg-mg variety of 72.34-78.01) and has injections of mafic volcanic filling fractures overall ambiguous cross-cutting relationship, including older + offset quartz veins; interval is cut by a network of hairline fractures +/- calcite fill; Broken lower contact
89.34	222.81	133.47	**12**				in	por		gyl	pnk	cg	3	Strongly to moderately broken core, intermediate intrusive (diorite/granodiorite) with alterating light grey-white and pink intervals reflecting the change in kspar (+/- hem) alteration; similar to 72.34-78.01 w/ 10-15% black biotite in the matrix, rounded quartz grains 2-4mm <5%, overall weak to moderate porphyritic texture w/ matrix grain boundaries more diffuse, feldpsar phenocrysts 2-5mm; sections with up to 5% grey quartz veins (~6 over 50cm) as well as downdip quartz-feldspar veins;1-3% fg py throughout the matrix as well as along fracutres +/- chl (lcly up to 5%), vein density increases down the hole up to 15% (roughly two main populations: 20-33 TCA, and 40-80 TCA) although the second domain is largely 50-60 TCA; Rare mafic xenoliths (121.75-121.84m) as well as mafic clots (e.g. - 179.55m, 180.24m) as well as porphyritic dyke (119.66-119.90m) **SHEAR:** 146.32-146.66m - strong S2 fabric (51 TCA) w/ stretched feldspars, boudinaged quartz-veins as well as 5% fg py; grey appearans is in stark contrast to the sections above and below, primary textures are obscured; 184.15-184.70m strong fabric at the contacts with diffuse host at the core, patchy ser alteration + 5% fg py Distinct bleached intervals (see alteration tab) notably contain <1% veins but a high number of hairline fractures w/ py-chl + lcly cavities filled with calcite Broken lower contact
222.81	229.29	6.48	**12**		fol	1	in			gyd	gnl	mg	0.1	Moderately blocky ground; equigranular + granitic appearance with rare weak porphyritic segments; possible chill margin from massive unit above; 40-45% mafic minerals (biotite), moderately developed fabric at upper contact down to 223.58m (S2 - 77 TCA); the core of the unit - 225.08-227.72m has a washed out appearance with moderate chlorite overprinting the matrix +/- patchy carb (filling between xtals) as well as a distinct alteration of feldspar crystals (white to pink), fg py up to 1% spatially associated w/ chl-carb altered portions with sporadically distributed pyrite elsewhere; sharp lower contact
229.29	238.67	9.38	**2b**	**10i**			plw	mx		gnd	gnl	fg	0.1	Pillowed>massive flow, strongly magnetic, 0.5-1% fg py overall, sporadically distributed, up to 3% py in minor intermediate dykes @233.16-233.19m, 234.90-234.92m, and 238.03-238.20m and the surrounding wallrock, sharp lower contact cross-cut by late quartz-vein
238.67	239.22	0.55	**12**				in	por		wht	gyl	mg	1	Dyke, weakly porphyrytic, cut by late quartz-veins (19-64 TCA), dusting of fg py along fractures; plag rich matrix with 20-25% biotite; sharp contacts
239.22	239.80	0.58	**2**				mx			gnd	gnl	fg		Moderately magnetic; sharp lower contact
239.80	240.76	0.96	**12**				in	por		wht	gyl	mg	0.5	Massive, as 238.67-239.21m; <5% sub-rounded quartz up to 3mm, weak to moderately porphyrytic with feldspar phenocrysts up to 0.5cm; 20-25% biotite,cut by downdip quartz vein as well as late fractures + chl-py; broken lower contact
240.76	242.27	1.51	**2b**	**10i**			mx			gnd	gyd	fg		Strongly magnetic, includes minor intermediate dyke from 242-242.14m; sharp lower contact
242.27	244.46	2.19	**12**				in	por		wht	gyl	mg	0.5	As 239.80-240.76m; weakly porphyritic, cut by quartz-veins @16-21 TCA, tr-0.5% py; sharp lower contact
244.46	247.06	2.60	**2b**	**10i**			plw	mx		gnd	gyd	fg	0.5	Moderately magnetic, cut by three thin intermediate dyklets @245.10m, 246.43m, and 246.63m (all similar in appearance to those units described alternating with mafic units above); sharp lower contact
247.06	260.98	13.92	**12**	**2**			mx	por		wht	gyl	mg	0.75	90% medium to coarse-grained, weakly porphyritic w/ phenocrysts up to 0.5cm; 10-20% biotite in the matrix; cut by late quartz-veins sporadically distributed with the bulk of the veins preserved between 253-260.98m; 10% well foliated (S2 - 52-70 TCA) mafic volcanics, 7-30cm in length exposed from 255.30-258.56m; the presence of minor mafic intervals is coincident with a more diffuse appearance to the host rock w/ patchy silicification obscuring primary textures and an increase in pyrite mineralization; sharp lower contact
260.98	262.20	1.22	**2**	**10i**	fol	2	fol			bla	gyd	fg	0.25	Moderate to strongly foliated (S2 67-75 TCA) hosting 10-15% fg-mg py; minor 10i (as above) from 261.64-261.75m; sharp lower contact
262.20	263.12	0.92	**10i**				in	mx		gyl		mg	0.25	As lower portion of 247.06-260.98m, diffuse appearance, cut by high density of hairline fractures w/ chl-py +/- cal; sharp lower contact
263.12	264.48	1.36	**2**		fol	2	fol			bla	gyd	fg	0.25	Moderately to strongly foliated (S2 47-63) hosting 5-10% foliation // fg-mg pyrite, cubic to lcly stringer like; pathy carb alt throughout; sharp lower contact
264.48	265.14	0.66	**10i**		fol	2	mx	fol		gyl		mg	0.25	A more deformed variety of 262.20-263.12m, more massive from 264.48-264.66m, well developed fabric down to the lower contact (S2 - 60-70 TCA), 5% fg-mg aggregates of py along S2 forming stringers; sharp lower contact
265.14	324.00	58.86	**2b**	**10i**	fol	1	plw	mx		gnd	gyd	fg	0.1	moderately foliated at upper ctc 55-60tca, decreasing in intensity at 266.92 where unit becomes more massive to pillowed.10% fol parrallel to pyrite decreasing down hole intermediate dyke from 264.49-264.64 (similar to 247.06-260.98)Unit continues mafic pillow unit, moderately magnetic, carb alteration 297.10-299.88 increases with carb veins 30 deg tca. Biotite replacement at pillow margins through unit. QTZ veins are more abundant at top half of unit ranging from 0.4-6cm wide.
324.00	324.00	0.00												EOH

Alteration

From (m)	To (m)	Alt Min 1 Type	Alt Min 1 Intensity	Alt Min 1 Texture	Alt Min 2 Type	Alt Min 2 Intensity	Alt Min 2 Texture	Alt Min 3 Type	Alt Min 3 Intensity	Alt Min 3 Texture	Alt Other Type	Alt Other Intensity	Alt Other Texture	Comments
15	16.94	bt	2	ba	chl	2	pa							chlorite patchy to pervasive
17.46	18.56	ep	1	pa										
18.6	21.2	ep	1	ba	cb	1	pa							
23.9	25.2	chl	2	pa	bt	2	pe							
25.2	26.56	ep	1	pa										
28.46	29.1	ep	1	ba										
29.1	30.02	ep	1	ba	cb	2	pa							
30.02	31.38	chl	2	pa	bt	2	pe	ep	1	pa	cb	2	pa	
32.43	32.66	ep	1	pa										
32.66	33.08	cb	3	pa	chl	1	op	bt	2	pe				
33.08	36.56	bt	1	pe	chl	3	op	cb	1	iff				
40.65	43.4	cb	1	pa										weak to moderate in places
44.69	44.9	chl	2	iff										
44.9	45.64	chl	1	iff										
45.64	45.9	kf	1	pa	chl	1	iff							weak patches overprinting porphyry; strongly fractured +/- chl fill
45.9	47.81	chl	1	iff										
49.53	54.18	ep	3	pa	kf	2	rp							ep strong patches overprinting wallrock; kf +/- ep replacing xtals, minor patches of moderate kf spatially associated with higher fracturing
55.1	56.95	kf	1	rp	ep	1	rp							weak alteration after feldspar phenoscrysts
58.44	63.9	ep	3	pa	cb	3	pa	hem	1	iff				strong spatial association with pillows/pillow margins; hem restricted to 58.44-58.58 spatailly associated w/ calcite filling fractures near interpreted fault gouge
63.9	70.77	ep	2	pa										as previous but lacking carb, unit is more variolitc than up the hole
71.45	72.34	ser	2	ba	bt	2	ba							ser is weak to moderate, tan to brown, exposed in a moderately foliated section
72.34	74.3	kf	1	pa	kf	1	iff	chl	1	iff				weak to absent kspar alteration (light pink overprint) lcly bleeding out of hairline fracutres cutting intrusive
78.01	79.12	ser	2	ba										
79.8	86.4	bt	2	pa										moderate to strong biotite between pillows
87.71	88.15	kf	1	iff	chl	1	iff							weak kspar (hem?) rimming the outline of hairline fractures in minor 10i (diorite - intermediate intrusive)
89.8	92.9	kf	1	pa	kf	2	sv	chl	1	iff				weak to absent kspar alteration as patches in the matrix as well as along vein selvages
92.9	95.79	kf	2	op	kf	2	sv	chl	1	iff				moderate intensity overprinting the wallrock as well as along quartz-vein selvages or bleeding from hairline fractures
96.95	98.14	kf	1	pa	chl	1	iff							
98.14	99.3	kf	2	pa	chl	1	iff							
99.3	100.36	kf	1	pa										
100.95	103.28	kf	3	op										patchy to pervasive, with pockets of relatively unaltered intrusive exposed
103.8	106.12	kf	2	pa										moderate to weak in places, interval cut by downdio massive quartz-kspar vein as well as 5% quartz-veins w/ kspar along selvages
106.12	108.9	ble	3	pe	chl	1	iff							interval stands out a considerably lighter than all the surrounding rock, increased fractures + 5% fg py
108.9	110.48	kf	3	op	chl	2	iff							patchy to overprinting the matrix, interval contains 5% hairline fractures filled with chl +/- fg py
110.48	115.18	ble	2	pe	chl	1	iff	cb	2	iff				moderate to strongly bleached (strongest from 113.98-114.79m) including calcite filling cavities + includes rare chl rich clots, chl expresses predominantly as fracture fill +/- py
115.18	128.17	kf	3	op	chl	2	iff							strong to moderate, giving the intrusive a pink appearance; chlorite exposed along fracture planes +/- aggregates of fg py
128.17	129.26	ble	1	pe	chl	1	iff							weak to absent bleaching, white-grey interval, nearly absent quartz-veins
129.26	148.63	kf	2	op	chl	2	iff							moderate to weak, overprinting to pervasive alteration giving a dull pink to moderate pink appearance, strong to moderate chl along fractures +/- fg py
148.61	150.3	ble	1	pe	chl	2	iff							weakly bleached, similar to 128.17-129.26m; high density of hairline fractures w/ chl-py fill
150.3	161.64	kf	3	pe	chl	2	iff	hem	2	pa				pervasive to overprinting, gives interval a pink appearance, strong to moderate chl along fractures +/- py; interval contains ~10% quartz-veins x-cutting the wall rock (and cut by chl-py fractures)
161.64	163.46	kf	1	pa	chl	2	iff	sil	1	pa				
163.46	168.43	kf	2	pe	chl	2	iff	sil	1	pa	hem	1	pa	
169.68	178.2	kf	2	pe	chl	2	iff	sil	1	pa				
184.15	184.7	sil	3	op	ser	2	pa							
186.2	196.16	kf	1	pe	chl	1	iff	sil	1	pa				rare patchy siliica (194.01-194.12m)
196.68	199.8	kf	1	pe	chl	1	iff							weak to moderate giving host a pink appearance
199.8	200.64	sil	2	pa	chl	3	iff	ser	1	pa				light cream interval w/ high density hairline fractures + chl-py +/- cal, weak patchy ser, interval hosts 3-5% py
200.64	205.97	kf	2	pe	chl	1	iff	cb	2	iff				localized calcite filling vugs from 203.69-203.79m
205.97	213.63	kf	1	pa	chl	1	iff	cb	1	iff				interval has a dominantly fresh to bleached appearance w/ weak patches of kspar overprint (dull pink appearance); feldspar phenocrysys (3-5mm) are angular to sub-angular; sporadic hairline fractures filled with moderate to strong chl +/- py
213.63	219.57	kf	2	pe	chl	1	iff	sil	1	pa				
219.57	221.81	kf	1	pa	chl	1	iff							weak to absent kspar sheen over wallrock, dull pink patches in places; feldspar phenocrysts, sub-rounded to sub-angular
225.08	227.93	chl	2	pe	kf	1	rp	cb	2	pa	hem	1	iff	chl after biotite in the matrix + moderate to weak patchy carb, weak kspar after xtals in the matrix
238.04	238.2	kf	2	pe	chl	2	iff							
238.67	239.22	chl	1	iff										
239.8	247.06	chl	1	iff	ep	1	iff							chl exposed in intermediate intrusive units w/ epidote filling fractures in mafic units
247.06	255.2	kf	1	pa	chl	1	iff							unit has a relatively fresh appearance w/ the odd dull pink patches, sporadic fractures cutting the unit filled with chl +/- py
255.2	260.98	sil	1	pa	chl	2	iff	cb	2	pa				silicification restricted to the intermediate intrusive unit w/ patchy carb spatially associated w/ minor, foliated mafic intervals
260.98	262.2	cb	2	pa	chl	1	iff	sil	1	pa				chl exposed in hairline fractures cutting minor intermediate intrusive intervals within a mafic package; silicification restricted to minor intermediate intrusives
262.2	263.12	sil	2	pa	chl	2	iff							diffuse looking intermediate intrusive cut by hairline fractures filled with chl +/- fg py
263.12	269.56				chl	2		cb	1	iff				darker interval, black to dark green, carb alt/iff patchy.
269.56	297.1	chl	2	pe	bt	2	ba							biotite banding on pillow margins intesifies and then drops off.
297.1	299.8	cb	3	iff	chl	2	pe							fracture fill carb str 1mm wide at 3%. Chl drops and becomes more patchy, increasing at fractures
299.8	324	chl	2	pe	cb	1	iff							cb drops from prev, contained along fractures, or along pillow margins +/- po and py

Mineralization

From (m)	To (m)	Min 1 Type	Min 1 Texture	Min 1 %	Min 2 Type 1	Min 2 Texture	Min 2 %	Min 3 Type 1	Min 3 Texture	Min 3 %	Min Other	Min Other Texture	Min Other %	Comments
16.29	16.99	py	ba	2										fg-mg py parallel to S2 in places as well as disseminated in the wallrock
21.53	22.11	py	if	1										
22.6	22.96	po	bl	0.25	py	if	0.1	cp	bl	0.05				
24.4	24.7	po	ba	1	cp	bl	0.25	py	if	0.1				bands of fg-mg po with intergrown cpy, minor py along fractures
26.9	28.7	py	if	3										fg-mg spatially associated w/ biotite/chl fill + fractures
29.69	29.7	cp	bl	1	py	do	1							cg, blebby cpy rimming mg py xtals filling fractures in discontinuous quartz vein
30.02	30.3	py	do	1										
31.7	32.4	py	if	2										
33	36.56	py	do	0.5										fg-mg locally up to 1%
36.56	36.81	py	do	1	py	if	1							fg py disseminated in the matrix as well as along the margins of a late quartz-vein
40.48	44.69	py	if	1										fine to medium grained, filling fractures>along vein selvages>disseminated in the wallrock
44.9	47.81	py	do	2										2-3% fg, disseminated in matrix +/- spatially associated w/ biotite, also as fracture fill or along vein selvages
47.81	48.35	py	do	3										fine grained
48.35	57	py	do	0.5										tr to 1% fg py sporadically distributed throughout; fracture fill not uncommon
57	57.53	py	do	1										fine grained
58.3	58.44	py	if	2										fg-mg filling late fractures
58.44	63.68	py	do	0.5										fg py disseminated in the matrix as well as spatially associated w/ cb-epi alteration
64.28	64.43	py	do	1										
65.22	72.34	py	if	1										sporadically distributed
72.34	73.46	py	do	0.75										fg py filling between grains of the matrix spatially associated w/ biotite in places
73.46	78.01	py	if	2	py	do	1							locally spatially associated w/ biotite filling between grains of the matrix, py also present in late fractures cutting a downdip quartz vein from 75.99-76.29m
78.01	78.42	py	do	3										fine disseminated py + biotite filling fractures and deformed by the moderate S2 foliation
78.42	87.71	py	if											sparsely distributed fg-mg py filling fractures in pillowed flow
84.71	88.15	py	do	0.25										
88.15	89.34	py	if	1										
89.34	89.71	py	if	1										
89.71	90.16	py	if	3										
90.16	92.55	py	if	2										vfg-fg, spatially associated w/ biotite/chlorite fill
92.55	93.66	py	do	1										
93.66	93.75	py	do	5										section of diorite cut by a high density of chlorite filled fractures (~30%)
93.75	95.7	py	do	0.75										
95.7	98.14	py	do	4										
98.14	106.12	py	if	2										0.5-2% pyrite throughout, exposed along fractures, filling between xtals of the matrix + in fractures w/ chl
106.12	108.9	py	do	5										3-5% fg py within strongly bleached interval
108.9	110.48	py	if	3										py fg, disseminated in chlorite filled fractures + in the matrix; high density of fractures from 108.9-109.82m
110.48	115.18	py	do	3	py	if	2							overall 5% fg py filling between feldspars in the matrix +/- chl or biotite; as well as in late fratures + chlorite
115.18	119.66	py	do	0.5										sparse fg py
119.66	119.9	py	do	0.01										trace py in late porphyrytic dyke
119.9	121.75	py	if	0.1										sparse py, local fractures dusted w/ py + chl
121.75	121.84	py	ba	2										fg py in mafic xenolith, py stretched - S2 - 82 TCA
121.84	121.93	py	do	2										
121.93	124.3	py	if	0.1										sparsely distributed fg py
124.3	125.01	py	if	3										
125.01	127.7	py	if	0.25										
127.7	129.26	py	if	2	py	do	2							
129.26	132.05	py	if	1	py	do	3							fg py filling fractures w/ chl, areas of 3-5% (130.60-131m and, 131.69-132.05m), fg py disseminated in the wallrock, rare cg py exposed w/ chlorite rims;
132.05	141.4	py	if	1										
141.4	143.48	py	if	1	py	do	2							
143.48	145	py	if	1	py	do	1							
145	146.32	py	do	3	py	if	0.5							
146.32	146.66	py	do	5										fg py throughout sheared intrusive
146.66	149.38	py	if	3										2-3%, mg py filling fractures
149.38	150.3	py	if	4	py	do	1							fine disseminated py in late hairline fractures as well as filling between xtals of the matrix
150.3	156.3	py	if	0.5										sparsely distributed py along fractures + chl
156.3	156.57	py	if	5										filling hairline fractures
156.57	161.64	py	if	2	py	do	1							fg py filling fractures +/- chl
161.64	162.64	py	if	4	py	do	1							
162.64	165.8	py	if	2										1-3% fg py filling fractures; interval has a high density of quartz-veins; fractures cross-cutting veins + include moderate to strong chl
165.8	168.46	py	if	0.75										
168.46	172.9	py	if	2	py	do	0.5							mod to strong chl in fractures
172.9	173.4	py	if	3										mod to strong chl in fractures
173.4	179.48	py	if	0.5	py	do	1							
179.48	184.15	py	if	2	py	do	1							3-5% fg py filling between xtals in the matrix as well as hairline fractures + chl
184.15	184.8	py	if	1	py	do	4							fg py filling fractures + chl, + disseminated in wallrock within a weakly sheared diorite; py contiunes beyond the shear into next unit
184.8	186.5	py	if	2										
186.5	186.6	py	if	10										aggregates of fg-mg py filling fractures w/ chl
186.6	188	py	if	1	py	do	0.5							
188	188.38	py	do	4										
188.38	194	py	if	0.5	py	do	0.5							
194	194.12	py	if	5	py	do	1							fg py filling fractures + disseminated in silicified section of host
194.12	196.16	py	if	0.5										
196.16	196.68	py	do	5										
196.68	199.8	py	if	2										
199.8	200.64	py	if	5										
200.64	204.93	py	if	2										1-3% spatailly associated w/ late fractures + strong chlorite
204.93	205.97	py	do	0.5	py	if	0.5							

From (m)	To (m)	Min 1 Type	Min 1 Texture	Min 1 %	Min 2 Type 1	Min 2 Texture	Min 2 %	Min 3 Type 1	Min 3 Texture	Min 3 %	Min Other	Min Other Texture	Min Other %	Comments
205.97	213.63	py	do	3	py	if	2							
213.63	215.14	py	if	1										
215.14	219.42	py	if	1	py	do	2							
219.42	221.81	py	do	3	py	if	2							fg py filling between xtals of the matrix as well as along fractures, sporadic stringers not uncommon (aggregates of py in discontinuous fractures)
221.81	224.84	py	if	2										fg-mg aggregates along fractures, sporadically distributed
224.84	229.29	py	do	0.75	py	if	0.5							isolated fractures hosting up to 1% py (@75 TCA)
229.29	231.7	py	if	1										
231.7	236.4	py	do	0.25										
236.4	238.04	py	if	1										1-2% fg-mg filling fractures in mafic volcanics
238.04	238.67	py	if	3										py also disseminated in minor intermediate dyke from 238.04-238.20m
238.67	241.4	py	if	0.5										
241.4	242.28	py	if	2										
242.28	244.46	py	do	0.5	py	if	0.5							
244.46	247.06	py	if	1										
247.06	255.27	py	do	3	py	if	1							2-5% fg py throughout host, filling between grains of the matrix +/- bio; fg py also filling fractures (lcly series of fractures @70TCA) + chl
255.27	260.98	py	if	5	py	do	5							fg-mg py disseminated throughout the interval up to 10% (and 15% in minor mafic segments); also hosted in variably oriented fractures from 30-60 TCA; rare mafic clots hosting 3-5% fg py
260.98	262.2	py	do	10	py	bl	5							5-15% fg-mg py, filling along and deformed by S2 fabric (blebby appearance), mg-cg py more disseminated in the interval with the highest concentration between 261.70-262.20m
262.2	263.12	py	do	2	py	in	3							py 5-10%, fg, irregular to cubic shaped disseminated throughout, in pits and micro fractures in wallrock as well as in late fractures + chl
263.12	264.48	py	ba	5	py	do	1							5-10% fg-mg py forming bands/stringers // to S2
264.48	265.14	py	ba	5										3-5% fg-mg py forming bands, py irregular shaped
265.14	266.9	py	ba	1	py	do	1							fg pyrite forming parallel to weakening S2 fabric as well as disseminated in the wallrock
266.9	269.29	py	do	1										fg-mg py 1-2% decreasing down the hole to trace levels
269.29	279.6	py	bl	1	po	bl	0.5							blebby to massive py +/- po along pillow margins. Fg diss py <1% through unit
279.6	295.5	py	do	0.5										weaker py, fg to small blebs, diss through unit
295.3	299	py	sr	1	po	do	0.1							1-2% py associated with qtz/carb str. Minor po towards end, disseminated and blebby <1%.
299	308.7	po		5	py		3	cp	bl	0.5				po/py +/- cp forming along pillow margins massive- blebby. Blebby py through out unit, patchy.
308.7	324	py	bl	0.5	po	bl	0.1							blebby py concentrated near pillow margins and w/in chl str, min is patchy through remainder of unit. Po is blebby, along pillow margins elongated and oriented to margin

Structural Intervals

From (m)	To (m)	Structure	Intensity	Comments
16.33	17.15	S2	2	moderately developed fabric, py xtals forming bands // to foliation, lighter coloured wall rock w/ biotite altered bands
18.6	19.97	S2	2	weak to moderately developed fabric punctuated by elongate/deformed lapili
67.53	72.34	S2	2	weak to strongly developed shear fabric w/ the strongest segment from 71.78-72.34m; localized flattening of vesicles
78.01	79.12	S2	2	moderate to strongly developed fabric, patchy ser alteration, disseminated py (lcly stretched), finely banded in places, intensity decreases away from upper contact; includes fragments of massive quartz-vein (fabric wrapping around vein)
84.4	87.46	S2	1	overall weak fabric with localized moderately developed zones from 87.11-87.46m; strong biotite overprint +/- fg py fill, cut by late quartz-veins
109.18	109.76	fcs	2	series of sub-parallel hairline to mm-scale, chl filled fractures +/- py cutting altered diorite
110.1	140.76	QZV	1	1% quartz-veins both between 20-30 TCA and 40-60 TCA, broadly spaced w/ red selvages; the second domain seems to cut the downdip veins;dull drey veins offset locally by late hairline fractures filled with chl
140.76	146.32	QZV	3	~5-10% quartz-veins, downdip (20-30 TCA), as well as 40-80 TCA veins, conjugate veins locally, domain two seems to cut the downdip veins; all veins offset by late hairline fractures
146.32	146.66	shz	2	Moderate to strongly developed fabric, rounded to flattened feldspars, fg py along S2
146.66	153.5	QZV	3	~10-15% quartz-veins: domain 1 (20-30 TCA) and domain 2 (40-80 TCA, largely between 40-60 TCA); all veins cut by hairline fractures filled with chl-py
157.12	178.2	QZV	3	10-15% qurtz-veins, milimetric to 4cm thick, closely spaced becoming more broadly spaced over the final 2m, dull-grey, white, laminated (dominantly between 39-59 TCA); offset by late chl-py filled fractures; lcly 0-20 TCA veins present (discontinuously) and are cut and cut the dominant vein orientations; veins cut all alteration intensities
184.15	184.7	shz	1	overall weak shear however margins have a well developed fabric (ser altered) w/ S2 - 65-66; similar to 146.32-146.66m, primary textures all but overprinted w/ silica, strong fracturing with chl-py
184.7	203.94	QZV	1	vein density dropped off to ~1-2%, average vein orientation between 30-45 TCA; broadly spaced
213.68	221.18	QZV	2	~5-10% quarz-veins, white, with several near core axis parallel veins exposed from 217.97-220.03m; vein orientations range from 19-45 TCA (dominantly between 19-26 TCA), and are up to 1.1cm thick
255.27	255.6	S2	2	moderately to strongly developed fabric in minor mafic within a broad intermediate intrusive unit (S2 - 60 TCA)
260.98	266.88	S2	2	moderate to strongly developed fabric within the mafic units > intermediate intrusives weakening down the hole from 266.58-266.88m then the unit becomes more massive to pillowed

Structural Measurements

Depth (m)	Structure	Intensity	Alpha	Beta	Gamma	Strike/Trend	Dip/Plunge	Dip Direction	Comment
16.5	S2	2	79						moderately developed fabric in biotite altered mafic volcanic host
18.6	gc		66						
19.75	S2	2	72						weak to moderately developed fabric in laplli tuff
26.56	gc		61						
31.38	gc		73						
32.65	gc		81						
36.8	QCV	2	68	252					white-grey, 1-2% fg py along uphole margins
39.5	QZV	2	31	270					semi-continuous white qtz-vein
40.48	QZV	2	54	264					white-translucent w/ 2% fg-mg py filling fractures and along the selvages
44.69	gc		66						
46.25	QZV	2	21	180					Part of a vein set from 45.30-46.33m
47.81	gc		65	185					
47.92	S2	1	55	185					weakly developed fabric, fg py locally stretched by the foliation
52.05	S2	1	46						weakly developed fabric in xtu
57.74	S2	1	59						
58.44	gc		76						
58.45	ftg	2	76						chl rich fault gouge emplaced at contact
58.71	S2	2	63						moderately developed foliation fabric highlighted by deformed calcite stringers
59.27	S2	1	78						weak to moderate fabric in altered pillowed volcanics
60.62	S2	1	75						weak to moderate fabric in altered pillowed volcanics
62.49	S2	1	79						weak to moderate fabric in altered pillowed volcanics
67.61	S2	1	66						
69.6	S2	1	25						
72.09	S2	2	81						well developed, mm-spaced fabric approching contact with intrusive downhole, patchy ser downhole
72.34	gc		65						
77.69	fr	3	36	165	240				quartz rich fracture plane hosts aggregates of mg py, as well as exoises a slip surface; inferred bottom of core
78.01	gc		67						
78.65	S2	2	62						
84.45	S2	2	63						
85.14	S2	2	57						
87.21	S2	2	65						
87.71	gcu		42						sharp upper contact of intermediate intrusive
88.15	gcl		78						sharp lower contact of intermediate intrusive
89.1	S2	1	68						
90.91	QZV		51						ksapr along vein selvage
92.37	QZV		36						
94.7	QZV		53						
95.35	QZV		52						
99.81	fcs	2	56						series of parallel chlorite filled fractures (possible foliation fabric), host rock having 3-5% fg py
104.3	QZV		0						white-pink qtz-feldspar vein cutting kspar altered host; fg-mg py filling fractures
109.18	fcs	2	40						series of hairline to 2mm fractures cutting altered intermediate intrusive, fractures filled with chlorite +/- py, parallel fractures spaced on the order of 0.5-10cm
115.5	QZV	3	12						
110.2	QZV	3	0						qtz-vein cut by later qtz-vein (54 TCA); vein is continuoubs but is broken/boundinaged at the downhole end w/ fragments rounded in the host rock
119.66	gcu		36	310					upper contact of late porphyry dyke; no line confidence
119.9	gcl		26	326					lower contact of late porphyry dyke; no line confidence
120.48	QZV	3	19						
121.84	gcl		75						lower contact of mafic xenolith; upper contact is spun
122.02	QZV	3	64						
122.36	QZV	3	55						
124.85	QZV	3	56						continuous qtz-vein that cuts a quartz vein oriented at 21 TCA
126.15	QZV	3	50						dull grey vein xc host
130.16	QZV	3	68						dull grey vein xc host
130.57	QZV	3	51						dull grey vein xc host
133.17	S2	1	30						weak fabric defined by alignment of biotite xtals in the host
134.17	QZV	3	9						near downdip vein xc host
135.84	S2	1	41						weak fabric defined by alignment of biotite xtals in the host possibly overpriting an early ~20 TCA fabric
135.88	S2	1	39						weak fabric defined by alignment of biotite xtals in the host possibly overpriting an early ~20 TCA fabric
135.9	S2	1	27						weak fabric defined by alignment of biotite xtals possibly overprintined by a 39-41 TCA foldation fabric
136.4	QZV	3	43						(137 TCA), dull grey vein, xc host as well as an earlier qtz-vein oriented @45 TCA
138.21	QZV	3	26						pink selvagages (kspar) offset by hairline fracture down the axis (apparent dextral sense)
141.28	QZV	3	56						dominamant orientation of a dull quartz-vein set w/ kspar selvages cutting host
143.33	QZV	3	34						dull grey vein xc host w/ think kf selvage, cut and offset by hairline fracture + chl and py
146.45	S2	3	56						mm-spaced strong fabric exposed between 146.32-146.66m, includes dislocaated w/ deformed quartz-veins as well as weak patchy ser
147.7	QZV	3	29						part of a series of closely spaced, sub-parallel from 147.65-148.24m
149.5	fcs	3	48						expsure of sub-parallel chl-py filled fractures cutting bleached diorite from 149.5-149.75m, fractures 1-2cm apart, cutting early quartz-veins
151	QZV	3	27						thickest exposure of dull white quartz vein, laminated, part of a section with 10-15% sub-parallel veins cutting diorite (0-50 TCA)
156.94	QZV	3	22						dull grey vein, hem vs kspar halo
157.68	QZV	3	39						dull grey, possible hem halo
160.32	QZV	3	69						dull grey, possible hem halo
161.53	QZV	3	42						dull grey, possible hem halo
163.68	QZV	3	53						white-grey, part of a high density set of quartz-veins
166.5	QZV	3	31						dull, white-grey, cuts diorite
169.84	QZV	3	57						dull, white-grey, cuts diorite
172.29	QZV	3	55						cut and offset (apparent right lateral) by a later quartz vein @6 TCA
174.95	QZV	3	49						white, laminated to bx vein

Depth (m)	Structure	Intensity	Alpha	Beta	Gamma	Strike/Trend	Dip/Plunge	Dip Direction	Comment
175.75	QZV	3	56						white, dull grey vein
184.15	S2	3	65						spatially associated w/ ser alteration; well laminated, mm-spaced
184.7	S2	3	66						spatially associated w/ ser alteration; well laminated, mm-spaced
185.8	S2	3	55						mm-spaced, strong fabric, disseminated py +/- cal //, exposed over 7cm
188.25	fr	2	43	92					hairline chl filled fracture, part of a set of parallel fractures exposed down the hole to 184.35m, NO line confidence
192.04	QZV	3	53						dull grey/white, 6mm thick
196.23	S2	2	60						finely laminated, mm-spaced fabric, hosting 1% fg py + weak cb alt; very blocky section of core, relatively unaltered compared to intervals above and below
19755	QZV	3	16						3mm, continuous qtz vein, typical vein of that domain, cuts host + rare py along selvages
200.36	fr	3	30	32					continuous chl filled fracture cutting altered host; conjugate + sub-parallel fractures appear up and down the hole from 199.80-200.64m; NO LINE CONFIDENCE
202.23	QZV	3	26						typical dull qtz-vein cutting host, 6mm, kspar-hem selvage
214.16	QZV	3	45						typical dull qt-vein cutting host
218.16	QZV	3	21						white, continuous, cut by chlorite filled fractures
220.12	QZV	3	26						
222.89	S2	3	77						strong penetrative fabric from 222.81-223.48m, feldspar xtals of the matrix are weakly flattented and aligned within the fabric
229.29	gc		76						
233.17	gcu		61						upper contact of minor intermediate dyke
233.19	gcl		60						lower contact of minor intermediate dyke
233.46	S2	1	70						weak fabric in mafic volcanics, lcly biotite banded
236.79	S2	1	53						weak to moderate fabric highlighted by flattened and roated vesicles
238.04	gcu		65						upper contact of moderately altered intermediate dyke (lower contact is broken/spun)
238.67	gc		45						
238.8	QZV	3	64						white-translucent vein cutting intermediate intrusive as well as low angle vein
238.88	QZV	3	19						white-translucent qtz-vein cutting intermediate intrusive, is cut by previous entry as well as chl-py filled fracture
239.05	QZV	3	46						white-translucent qtz-vein cutting intermediate intrusive
239.22	gc		43						
239.8	gc		54						
240.17	QZV	3	10						semi-continuous, white-translucent vein cutting intermediate intrusive from 239.90-240.29m
242.27	gc		54						
244.46	gc		22						
246.43	gcu		40						upper contact of an intermediated dyke from 246.43-246.47m
246.62	gcu		44						upper contact of an intermediated dyke from 246.62-246.69m
247.06	gc		40						
253.46	fr	2	70						discontinuous hairline fracture filled with fg py, part of a fracture set from 253.44-253.49m spaced on the order of 2cm
253.76	fr	2	65						discontinuous fracture filled with chl/py
254.18	fr	2	45						chl filled fracture cutting host
254.4	QZV	3	45						discontinuous qtz-vein cutting diorite
255.3	S2	1	60						
255.91	S2	2	61						
256.9	S2	1	46						series of parallel fractures hosting deformed fg py
257.58	S2	1	50						weak fabric in minor mafic volcanic unit within a broad intermediate intrusive
258.47	S2	2	73						
259.52	fcs	1	46						series of hairline fractures w/ chl-py from 259.49-259.56m
260.98	gc		78						
261.09	S2	1	67						weakly developed fabric in mafic unit, with the intensity picking up down the hole (includes boudinaged quartz-veins)
262.2	gc		77						
263.12	gc		47						
263.28	S2	2	63	324					No line confidence, measured off line extended back from 264m block (no lock)
263.76	S2	2	47	345					No line confidence, measured off line extended back from 264m block (no lock)
264.14	S2	2	60	346					No line confidence, measure off line extended forward from 264m block; hosts aggregates of fg py forming a stringer
264.48	gc		75						
264.9	S2	2	58						
265.14	gc		55						
265.2	S2	3	67						
265.5	QZV	3	85						qtz vein, broken contact, with kspar-hem
265.6	S2	2	63						weaker folation to prev starting at ctc of qtz vein.
265.9	S2	3	63						same fol as prev, intensigfying up to 266.9
270.7	QZV	3	70						qtz vein, with minor chl clasts included
276.45	QZV	3	76						qtz str, massive, clear margins
279.25	sr	2	60	33					qtz/cav vein, w/ biotite banding, weak margins
279.67	sr	3	52	33					cav vein 1-2mm wide strong margins, low confidence line extended over
280.3	ab	2	49	19					biotite banding at pillow margin, minor carb/qtz 5cm wide, low confidence line extended over
287.79									
291.73	QZV	3	32						white qz vein, 3mm wide
293.9	sr	3	38	120					white qtz sr 2 mm wide. Low confidence
294.3	sr	3	43	20					low confidence line extended over. Qt/py sr
297.44	sr	3	33						carb str, 30 tca, 1-2mm thick, high intensity over 1.8 m
305.9	QCV	3	69						milky-cream qt-crb vein, chl in between cleav. 1% diss py
311.21	vei	2	57						mass. Po/cpy vein, broken with po whisps 1-2cm surrounding.
312.73	QCV	2	73						frav vein, smoky grey qtz, 1-2% diss py
314.46	vei	1	70						po/py +/- cp vein along edge of biotite band of alt.
315.96	cav	3	39						fracture filled cav vein, can see xl formation
320.9	s1	2	60						moderate fol 5-10 cm before getting weak again

Veins

From (m)	To (m)	Vein 1	Vein 1 Texture 1	Vein 1 Texture 2	Vein 1 Colour	Vein 1 AccMin1	Vein 1 AccMin2	Vein 1 %	Vein 1 TrueWidth (cm)	Alpha	Beta	Gamma	Strike	Dip	Dip Direction	Comments
15.88	16.04	CAV	bx	xc	wht				0.5	21						
26.6	27.12	QZV	vs	xc	smk	py		5	0.5							series of sub-parallel quartz-veins spaced 3-14cm apart, variable in width from 0.5-1cm; oriented 58-78 TCA, trace fine disseminated py filling fractures
28.83	28.86	QCV	bo	lam	smk				1	73						includes fragments of epidote alt wall rock
29.69	29.78	QCV	xc	dc	wht	cpy	py	30		26						Core clips piece of a vein, hosts blebby cpy
44.69	44.9	QZV	xc	bx	wht	py		85	22	66						massive vein including chloritic wallrock w/ 1% disseminated fg py, emplaced at mafic/porphyry contact, cuts and includes fragments of both
45.29	46.33	QZV	vs	xc	gry	py		1	0.5	21						series of three veins spaced 70 to 23cm apart, cutting and also appears to be absorbed by the porphyry, lcly veins are discontinuous, rare calcite fill, cuts earlier fractures w/ fg disseminated py
46.56	46.63	QZV	bx		wht	py										dislocated quartz vein, wallrock preserves vein fragments, locally py filling fractures, orientation and width not determined
47.24	47.36	QZV	xc	fld	wht	py		25	0.5	24						semi-continous vein, pinches out but seems to be folded, cross-cutting porphyry, trace fg py hosted in vein
49.18	49.82	QZV	vs	xc	gry			1	0.5							3 sub-parallel veins exposed over the interval spaced 20-40cm apart, semi-continuous but lcly offset by late fractures, 23-37 TCA; late fractures cutting the veins host fg py
54.3	54.33	QZV	xc		wht	py	ca		2.5	82						mx vein cutting xtu, late cal-ch +/- fg py filling fractures
58.47	58.53	QZV	xc		wht	ca			5	68						similar to 54.3-54.33, mx, includes injections of chloritic wallrock in fractures, late fractures filled with calcite
60.16	60.19	QZV	xc	bo	smk	ca			2	68						vein thickens where it is boudinaged, white calcite filling fractures, includes fragments of wallrock, surrounding host has 1% fg py
64.94	65.01	QZV	xc		wht	kf		30	1	46						white-grey, with mm kspar slevage + tr fg py
75.29	75.43	QZV	xc		wht			20	0.6	32						veins cut diorite and are cut by late fractures filled w/ chl-bio + py
75.99	76.29	QAV	xc		wht	bio	py	25	1.2	28						white-cream cuts light-grey diorite, vein is cut by hairline fractures w/ bio + fg py
76.75	76.96	QZV	xc		wht				0.5	22						as vein at 75.29-75.43m
78.17	78.39	QZV	bo	bx	smk	ca		60	-	63						fragmented/bx and possibly boundinaged quartz-vein, TCA from average orientation of the lower segement of the vein, fine fractures filled with calcite
85.89	86.03	QZV	xc		gyl	ca			0.6	35						dull grey, continuous vein, top of interval exposes a nose of a vein w/ mafic window at core; weak cal filling fractures
86.52	86.63	QZV	xc		smk	ca			10	72						smokey>white cuts and includes angular wallrock, calcite filling fine fractures
90.69	91.04	QZV	vs		gyl	kf		5	0.6	51						grey-tanslucent veins w/ kspar along selvages, variable in width up to 2cm, 43-51 TCA; typical vein type x-cutting diorite/granodiorite; lcly veins offset by hairline fractures w/ chl-py
91.16	91.3	QZV	xc		pnk	kf		60	2	0						quartz-feldspar vein cutting and breccciating wallrock
93	96.58	QZV	vs	xc	gyl	chl		3	0.5	61						sporadically distributed and variable oriented, dull grey quartz-veins cutting intermediate intrusive, 0.5-2cm thick, w/ weak chloritic selvages, due to blocky nature of the core many veins are broken up, veins are cut and offset by late chlorite fractures +/- py, semi-continuous to discontinuous varieties exposed
97.85	97.97	QZV	xc	bx	smk	py	chl	40	6	51						smoky vein cutting and fracturing wallrock, cut by hairline fractures w/ chl, py filling pits and cavities in the vein up to 3%
104.14	104.53	QZV	xc		pnk	kf		60	2	0						Similar to 91.16-91.3m
105.3	105.91	QZV	vs	xc	gyl	kf		3	0.5	65						several veins (5 over the interval spaced 10-30cm apart) of same appearance however at least two generations, 56-84 TCA; veins cut and appear to be cut by Vein 2; both veins appear to be deformed - best expressed from 105.44-105.60
115.28	115.61	QZV	xc		gyl	kf		20	1.2	12						continuous vein cutting both bleached and kspar altered host rock, mm-selvage of kspar (pink-red)
115.8	116.38	QZV	xc		gyl	kf		20	0.6	0						as previous entry but cut by vein 2@116.26m; downhole portion of vein is boudinaged with rounded fragments preserved in the wallrock
120.4	120.68	QZV	xc		gyl	kf		20	0.4	19						semi-continuous (hard with blocky core), thin kspar selvage (red/pink), cuts host
122	122.04	QZV	xc		gyl	kf		5	0.4	64						cuts host rock as well as downdip vein @10 TCA
124.84	124.93	QZV	xc		gyl	kf		1	0.7	56						typical quartz-vein in diorite host w/ kspar selvages cuts vein 2
126.11	126.16	QZV	xc		gyl	kf		5	0.3	50						typical dull quartz-vein cutting diorite host
129.68	131.03	QZV	vs		gyl	kf		3	0.5	65						sub-parallel +broadly spaced quartz veins (13-40cm apart),59-90 TCA, 0.3-0.5cm, conjugate veins not uncommon; thin downdip quartz veins offset by fractures exposed between veins
133.97	134.3	QZV	xc		gyl	kf		3	0.9	9						exposure of typical downdip vein
141	141.93	QZV	vs		gyl	kf		15	0.3	56						series of sub-parallel veins spaced on the order of 2-9cm, 13 veins/m; these veins cut earlier downdop veins ~20-26 TCA
142.37	144.54	QZV	vs		gyl			15	0.5	41						interval hosting high density of quartz-veins, closely spaced and cutting diorite, veins are sub-parallel with orientations between 34-48 TCA, conjugate sets not uncommon
146.09	148.24	QZV	vs		gyl			10	0.3	31						older generation of quartz-vein cut by vein 2 set; moderately spaced, sub-parallel veins from 26-36 TCA; lcly offset by late fractures
150.91	151.07	QZV	xc	lam	gyl			25	3.5	27						laminated vein cutting diorite; within a broader interval hosting 15% sub-parallel veins (conjugate sets not uncommon) from 151.30-152.80m
157.12	178.2	QZV	xc	vs	gyl			15	0.5	50						high density of veins, sub-parallel to oblique, white to dull grey, lcly with hem halos, cutting intrusive, veins are offset by late chl-py filled fractures; tight to more broadly spaced as you approach the lower limit; ~1-5% low angle quartz-veins are cut and cut these veins
187.46	187.49	QZV	xc		gyl			20	0.9	67						typical dull quartz-vein cutting diorite host
213.75	213.96	QZV	xc	vs	gyl			40	0.5	21						part of a broader vein set down to 221.28m (90% veins at 19-26 TCA, 10% ~35-45 TCA)
220.93	221.18	QZV	vs	xc	gyl			25	0.5	21						interval exposes two sub-parallel veins cutting altered host; oriented 19-21 TCA, veins are continuous and spaced 2cm apart
226.3	226.46	CAV	xc		wht	chl		20	0.4	25						white-green, cuts pyrite bearing wallrock
238.57	238.69	QZV	xc	fld	wht			25	0.4	34						grey, discontinuous + folded qtz-vein; cutting across the contact of pillowed mafics and an intermediate intrusive dyke; ~1% fg py +/- cal along the selvage
246.71	246.75	QZV	xc	bo	gyl			35	0.8	75						white-grey, cutting and includling slivers of mafic host; <5% feldspar xtals, part of a dyke?
248.28	248.38	QZV	xc		wht			55	2.5	67						cuts intermediate intrusive; uphole and downhole fracture planes host a dusting of fg py
253.48	253.64	QZV	vs	xc	wht			25	0.3	70						cross-cutting veins. Vein 1 is cut by a quartz vein at 15 TCA (this vein is weakly folded)
254.17	254.26	QZV	xc		smk	ca		30	1	39						cross-cuts host minor cal fill
265.55	265.59	QZV	iff	dc	wht	kf	py	40	2.5	85						dull white qtz-vein broken and cutting across the fol. Minor kspar clast on edges, py blebby and along margins.
270.63	270.75	QZV	mx		wht			65	6	70						dull,cloudy, white qtz-vein, with 1cm angular inclusion of host rock.
290.72	290.83	QZV	mx		wht				0.4	32						dull cludy white qtz veinlet, strong ctc,
305	325	CAV	iff		crm	qz		5	0.5	65						cream coloursed qtz/cal veins typically parallel to foliation, avg ang is 65 tca.

Assay Results

Hole ID	Type	Number	From (m)	To (m)	Sample Interval (m)	Comments	SAMPLE	Au_ppm	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	K_pct	La_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_ppm	Pb_ppm	S_pct	Sb_ppm	Sc_ppm	Sr_ppm	Th_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
LXB20-002	NQ Core	B287138	24.06	25.56	1.50		B287138	0.0025	0.25	7.05	2.5	180	0.7	2	4.25	0.9	25	39	165	6	20	1.15	10	0.7	1815	6	1.53	41	840	5	0.41	2.5	14	152	10	0.45	5	5	101	5	440
LXB20-002	NQ Core	B287139	25.56	26.56	1.00		B287139	0.006	0.25	7.29	2.5	180	0.7	2	4.8	0.25	14	23	78	5.3	20	0.98	10	0.48	2440	8	1.81	27	780	2	0.15	2.5	13	175	10	0.42	5	5	89	5	138
LXB20-002	OREAS 222 - 1.21g/t	B287140			0.00		B287140	1.255	0.25	7.25	16	90	0.25	1	7.77	0.25	46	171	165	7.88	20	0.24	5	4.49	1345	0.5	1.63	118	390	6	0.22	2.5	41	191	10	0.57	5	5	279	5	86
LXB20-002	NQ Core	B287141	26.56	28.00	1.44		B287141	0.03	0.6	6.56	5	170	1	2	2.31	0.25	8	31	286	3.8	20	1.15	20	0.9	1025	4	2.33	11	330	5	0.44	2.5	8	160	10	0.21	10	5	39	5	88
LXB20-002	NQ Core	B287142	28.00	29.50	1.50		B287142	0.029	0.5	6.93	2.5	150	0.8	1	7.56	0.25	25	82	96	6.7	20	0.8	10	0.7	2900	3	1.54	63	580	3	0.36	2.5	22	153	10	0.5	5	5	180	5	63
LXB20-002	NQ Core	B287143	29.50	30.50	1.00		B287143	0.024	0.9	7.69	5	90	0.8	3	9.75	0.6	65	173	322	11.7	20	1.08	5	2.17	2670	32	1.15	150	390	4	0.49	2.5	45	225	10	0.85	5	5	391	20	116
LXB20-002	NQ Core	B287144	30.50	31.38	0.88		B287144	0.0025	0.25	7.53	2.5	180	0.25	1	6.88	0.5	59	188	87	12	20	2.42	5	4.69	1645	17	0.59	149	360	1	0.19	2.5	42	143	10	0.79	5	5	364	5	116
LXB20-002	NQ Core	B287145	31.38	32.65	1.27		B287145	0.016	0.25	7.4	2.5	600	0.6	1	3.76	0.25	18	39	143	4.2	20	1.68	10	1.28	855	14	2.48	35	590	1	0.2	2.5	13	174	10	0.37	5	5	96	5	55
LXB20-002	NQ Core	B287146	32.65	33.65	1.00		B287146	0.0025	0.25	8	2.5	90	0.25	1	8.91	0.25	67	176	111	10.8	20	0.92	5	3.41	2110	4	1.19	165	420	1	0.26	2.5	45	300	10	0.85	5	5	376	5	97
LXB20-002	NQ Core	B287147	43.69	44.69	1.00		B287147	0.081	0.25	7.72	2.5	290	0.9	1	3.05	0.25	15	22	40	4.46	20	1.53	10	1.53	545	4	3.38	24	830	6	0.24	2.5	13	420	10	0.42	5	5	94	5	77
LXB20-002	NQ Core	B287148	44.69	45.69	1.00		B287148	0.335	1.8	6.91	2.5	540	1.4	1	2.09	0.25	8	11	34	1.75	20	0.87	20	0.52	244	5	4.19	7	690	5	0.75	2.5	3	819	10	0.16	5	5	32	10	70
LXB20-002	NQ Core	B287149	45.69	46.75	1.06		B287149	0.586	1.7	7.59	2.5	760	1.7	1	2.06	0.25	5	10	26	1.47	20	1.15	20	0.48	211	0.5	4.76	5	770	7	0.53	2.5	2	1180	10	0.17	5	5	31	10	92
LXB20-002	Blank	B287150			0.00		B287150	0.0025	0.25	0.41	2.5	60	0.25	3	32.6	0.25	1	2	3	0.16	5	0.15	5	2.46	119	0.5	0.22	0.5	80	1	0.005	2.5	0.5	83	10	0.005	5	5	1	5	5
LXB20-002	NQ Core	B287151	46.75	47.81	1.06		B287151	0.17	0.8	7.96	2.5	740	1.7	1	2.04	0.25	6	9	24	1.71	20	1.09	30	0.52	199	0.5	4.79	5	790	11	0.68	2.5	3	1275	10	0.17	5	5	32	10	65
LXB20-002	NQ Core	B287152	47.81	48.81	1.00		B287152	0.058	0.5	7.39	2.5	370	0.9	1	3	0.25	16	21	41	4.11	20	1.8	10	1.52	443	5	2.76	24	810	5	0.36	2.5	12	470	10	0.39	5	5	88	5	82
LXB20-002	NQ Core	B287153	56.00	57.00	1.00		B287153	0.0025	0.25	7.66	2.5	290	0.8	1	4.43	0.25	17	23	33	4.61	20	1.1	10	1.04	675	1	2.92	27	830	3	0.08	2.5	13	285	10	0.46	5	5	98	20	74
LXB20-002	NQ Core	B287154	57.00	58.44	1.44		B287154	0.02	0.25	7.79	5	370	0.6	2	1.67	0.25	21	38	83	5.57	20	2.42	20	2.4	662	2	0.72	39	670	2	0.17	2.5	13	88	10	0.38	5	5	90	5	109
LXB20-002	NQ Core	B287155	58.44	59.00	0.56		B287155	0.017	0.5	7.3	2.5	150	0.5	1	6.3	0.25	45	228	89	5.38	20	1.67	10	2.35	1050	20	1.6	172	770	5	0.39	2.5	27	189	10	0.53	5	5	166	10	94
LXB20-002	NQ Core	B287156	59.00	60.50	1.50		B287156	0.014	0.25	8.52	6	140	0.6	1	7.43	0.25	44	169	89	5.13	20	1.2	10	1.18	1145	23	1.86	135	990	3	0.28	2.5	32	213	10	0.65	5	5	199	20	86
LXB20-002	NQ Core	B287157	60.50	62.00	1.50		B287157	0.014	0.25	8.39	2.5	120	0.6	1	7.93	0.25	45	156	103	5.04	20	1.2	10	1.16	1220	11	1.6	123	970	1	0.36	2.5	31	204	10	0.64	5	5	201	5	91
LXB20-002	NQ Core	B287158	62.00	63.50	1.50		B287158	0.099	0.25	8.38	5	200	0.5	4	7.27	0.25	45	159	88	5.54	20	1.77	10	1.57	1010	9	1.29	137	950	1	0.21	2.5	31	206	10	0.62	5	5	207	10	103
LXB20-002	NQ Core	B287159	63.50	65.00	1.50		B287159	0.01	0.25	8.55	2.5	110	0.5	1	7.26	0.25	65	166	98	5.26	20	1.21	5	1.46	955	2	1.39	146	1060	1	0.18	2.5	33	247	10	0.67	5	5	210	5	116
LXB20-002	OREAS 228b - 8.49g/t	B287160			0.00		B287160	8.99	1.3	6.36	35	240	0.25	5	5.79	0.25	42	272	145	7.18	20	0.47	5	4.29	1185	3	1.9	137	410	20	0.48	2.5	34	111	10	0.53	5	5	249	5	90
LXB20-002	NQ Core	B287161	65.00	66.50	1.50		B287161	0.015	0.25	8.6	2.5	110	0.5	1	8.37	0.25	60	153	81	4.85	20	0.92	10	1.52	1230	7	1.61	121	1050	1	0.21	2.5	34	244	10	0.66	5	5	206	30	85
LXB20-002	NQ Core	B287162	66.50	68.00	1.50		B287162	0.033	0.25	8.76	2.5	110	0.6	2	7.67	0.25	44	153	51	6.03	20	0.85	10	1.4	1455	9	1.88	110	1180	2	0.3	2.5	32	219	10	0.66	5	5	202	40	82
LXB20-002	NQ Core	B287163	68.00	69.50	1.50		B287163	0.112	0.5	8.56	2.5	90	0.5	1	6.75	0.25	42	154	118	4.88	20	0.85	5	1.04	1075	9	1.9	97	790	5	0.4	2.5	32	209	10	0.66	5	5	204	10	78
LXB20-002	NQ Core	B287164	69.50	71.00	1.50		B287164	0.008	0.5	8.64	7	120	0.5	2	6.45	0.25	54	167	148	5.43	20	1.02	5	1.19	1075	10	1.85	114	820	1	0.55	2.5	32	206	10	0.68	5	5	208	5	109
LXB20-002	NQ Core	B287165	71.00	72.34	1.34		B287165	0.037	0.5	8.3	2.5	270	0.7	1	5.15	0.25	45	260	101	5.15	20	2.32	5	1.85	997	4	2.63	128	750	1	0.47	2.5	31	280	10	0.6	5	5	199	40	110
LXB20-002	NQ Core	B287166	72.34	73.34	1.00		B287166	0.024	0.25	7.85	2.5	1290	1.5	1	1.78	0.25	6	15	8	1.65	20	1.72	20	0.59	220	0.5	4.19	9	790	8	0.14	2.5	3	1360	10	0.19	5	5	37	5	55
LXB20-002	NQ Core	B287167	73.34	74.84	1.50		B287167	0.024	0.25	7.92	5	1390	1.6	1	1.62	0.25	6	12	9	1.6	20	2.47	20	0.56	198	0.5	4.31	8	780	8	0.44	2.5	3	1275	10	0.17	5	5	37	5	44
LXB20-002	NQ Core	B287168	74.84	75.97	1.13		B287168	0.216	0.6	7.75	2.5	1240	1.5	1	1.55	0.25	7	12	14	1.74	20	2.29	20	0.53	207	0.5	4.28	8	760	10	0.91	2.5	3	1140	10	0.16	5	5	38	5	36
LXB20-002	NQ Core	B287169	75.97	77.01	1.04		B287169	0.205	0.5	7.53	2.5	1220	1.4	3	1.43	0.25	7	12	8	1.75	20	2.2	20	0.5	195	4	4.25	7	720	12	1.04	2.5	3	1035	10	0.14	5	5	38	5	32
LXB20-002	Blank	B287170			0.00		B287170	0.0025	0.25	0.09	2.5	20	0.25	2	33.9	0.25	2	1	5	0.13	5	0.03	5	2.15	124	0.5	0.04	0.5	80	1	0.005	2.5	0.5	87	10	0.005	5	5	1	5	5
LXB20-002	NQ Core	B287171	77.01	78.01	1.00		B287171	0.036	0.25	7.62	2.5	1250	1.5	3	1.74	0.25	6	11	6	1.61	20	1.68	20	0.55	214	0.5	4.57	6	770	7	0.57	2.5	3	1180	10	0.17	5	5	37	40	36
LXB20-002	NQ Core	B287172	78.01	79.12	1.11		B287172	0.089	0.25	7.73	2.5	220	0.6	3	5.34	0.25	45	146	70	4.3	20	2.18	5	1.12	730	12	2.18	98	590	2	0.63	2.5	29	280	10	0.58	5	5	186	40	85
LXB20-002	NQ Core	B287173	79.12	80.50	1.38		B287173	0.014	0.5	7.6	2.5	100	0.6	2	7.2	0.25	38	104	66	8.3	20	1.1	5	2.26	1885	7	1.95	46	760	2	0.16	2.5	23	373	10	1.04	5	5	203	10	87
LXB20-002	NQ Core	B287174	80.50	82.00	1.50		B287174	0.01	0.25	7.88	2.5	110	0.7	2	6.94	0.25	41	106	102	8.74	20	0.84	5	2.19	2010	11	2.28	47	780	1	0.36	2.5	24	402	10	1.09	5	5	216	30	107
LXB20-002	NQ Core	B287175	82.00	83.50	1.50		B287175	0.026	0.25	7.38	2.5	100	0.7	1	6.95	0.25	38	101	81	8.42	20	0.84	5	2.26	1845	2	2.09	46	740	1	0.39	2.5	23	411	10	1.02	5	5	198	10	111
LXB20-002	NQ Core	B287176	83.50	85.00	1.50		B287176	0.04	0.25	7.69	6	120	0.7	1	6.52	0.25	38	109	86	8.31	20	1.05	5	2.24	1745	4	2.18	40	760	1	0.3	2.5	23	411	10	1.07	5	5	200	10	113
LXB20-002	NQ Core	B287177	85.00	86.00	1.00		B287177	0.023	0.5	7.88	8	140	0.8	2	5.67	0.25	43	116	119	9.21	20	1.43	5	2.06	1760	4	2.42	52	840	1	0.38	2.5	24	372	10	1.09	5	5	218	40	140
LXB20-002	NQ Core	B287178	86.00	87.00	1.00		B287178	0.031	0.7	7.16	2.5	110	0.7	2	6.26	0.25	34	95	61	7.24	20	1.03	5	1.73	1685	6	1.96	42	770	2	0.36	2.5	21	426	10	0.9	5	5	183	40	95
LXB20-002	NQ Core	B287179	87.00	88.50	1.50		B287179	0.054	0.6	7.52	2.5	270	1	3	5.63	0.25	32	88	55	5.72	20	1.27	10	1.45	1480	8	2.84	38	790	6	0.31	2.5	18	533	10	0.84	5	5	160	20	81
LXB20-002	OREAS 222 - 1.21g/t	B287180			0.00		B287180	1.21	0.6	7.05	13	90	0.25	4	7.58	0.25	44	171	162	7.64	20	0.23	5	4.36	1295	0.5	1.59	115	380	6	0.21	2.5	39	186	10	0.56	5	5	269	5	83
LXB20-002	NQ Core	B287181	88.50	89.34	0.84		B287181	0.101	0.6	8.21	2.5	450	0.9	1	4.61	0.25	36	133	73	7.69	30	3.33	10	2.93	1555	5	2.25	46	1150	5	0.23	2.5	24	512	10	1.17	5	5	221	10	139
LXB20-002	NQ Core	B287182	89.34	90.34	1.00		B287182	0.071	0.25	7.36	2.5	1060	1.7	1	1.52	0.25	5	10	4	1.35	20	2.21	20	0.44	209	0.5	4.27	6	650	8	0.53	2.5	2	1010	10	0.14	5	5	34	5	23
LXB20-002	NQ Core	B287183	90.34	91.50	1.16		B287183	0.148	0.25	7.27	2.5	1020	1.7	1	1.37	0.25	4	10	4	1.35	20	2.44	20	0.4	184	1	4.14	4	650	5	0.72	2.5	2	872	10	0.13	5	5	30	5	20
LXB20-002	NQ Core	B287184	91.50	92.90	1.40		B287184	0.261	0.25	7.34	2.5	1130	1.5	2	1.55	0.25	6	10	4	1.46	20	2.09	30	0.47	205	11	4.28	4	730	10	0.75	2.5	2	961	10	0.15	5	5	37	10	33
LXB20-002	NQ Core	B287185	92.90	94.00	1.10		B287185	0.029	0.25	7.49	2.5	1020	1.5	1	1.65	0.25	6	9	2	1.49	20	1.86	20	0.49	222	13	4.66	5	790	4	0.67	2.5	2	984	10	0.15	5	5	39	5	23
LXB20-002	NQ Core	B287186	94.00	95.00	1.00		B287186	0.067	0.25	7.17	2.5	1180	1.3	1	1.42	0.25	5	9	1	1.45	20	2.13	20	0.49	186	0.5	4.32	5	770	7	0.64	2.5	2	941	10	0.14	5	5	39	5	21
LXB20-002	NQ Core	B287187	95.00	95.79	0.79		B287187	0.062	0.25	7.62	2.5	1030	1.5	3	1.52	0.25	7	10	3	1.66	20	1.99	30	0.49	200	1	4.78	5	780	5	1.04	2.5	2	879	10	0.14	5	5	38	10	19
LXB20-002	NQ Core	B287188	95.79	96.95	1.16		B287188	0.076	0.25	7.7	2.5	1020	1.7	2	1.12	0.25	7	10	3	1.82	20	2.14	20	0.48	168	1	4.96	5	790	7	1.47	2.5	2	728	10	0.14	5	5	38	10	22
LXB20-002	NQ Core	B287189	96.95	98.14	1.19		B287189	0.456	1	7.52	2.5	1070	1.5	1	1.43	0.25	7	11	2	1.77	20	2.17	30	0.47	193	2	4.58	6	770	7	1.26	2.5	2	846	10	0.14	5	5	36	5	20
LXB20-002	Blank	B287190			0.00		B287190	0.0025	0.25	0.07	2.5	20	0.25	3	34.9	0.25	2	1	1	0.11	5	0.01	5	1.73	120	0.5	0.04	1	70	1	0.01	2.5	0.5	86	10	0.005	5	5	2	5	3
LXB20-002	NQ Core	B287191	98.14	99.30	1.16		B287191	0.081	0.25	7.62	2.5	1140	1.6	2	1.7	0.25	9	11	3	1.72	20	2	30	0.55	224	9	4.65	7	860	5	0.89	2.5	3	952	10	0.16	5	5	39	10	26
LXB20-002	NQ Core	B287192	99.30	100.30	1.00		B287192	0.082	0.25	7.75	2.5	1020	1.9	2	1.52	0.25	6	10	2	1.65	20	1.99	30	0.5	213	3	4.91	7	820	10	1.07	2.5	3	895	10	0.14	5	5	39	10	23
LXB20-002	NQ Core	B287193	100.30	101.80	1.50		B287193	0.11	0.8	7.8	2.5	910	2.1	4	1.55	0.25	7	10	2	1.61	20	1.74	30	0.51	231	3	5.33	6	840	3	0.88	2.5	3	784	10	0.14	5	5	39	10	31
LXB20-002	NQ Core	B287194	101.80	103.30	1.50		B287194	0.047	0.25	7.96	5	1290	1.9	2	1.51	0.25	6	10	2	1.71	20	2.54	30	0.56	218	0.5	4.88	6	900	8	0.65	2.5	3	942	10	0.16	5	5	42	5	40
LXB20-002	NQ Core	B287195	103.30	104.80	1.50		B287195	0.073	0.25	7.28	2.5	1180	1.5	1	1.08	0.25	5	10	4	1.42	20	2.49	30	0.39	158	1	4.35	6	680	6	0.99	2.5	2	653	10	0.11	5	5	32	10	22
LXB20-002	NQ Core	B287196	104.80	106.12	1.32		B287196	0.021	0.25	7.68	2.5	1360	1.7	1	1.57	0.25	6	11	6	1.56	20	2.58	30	0.5	212	2	4.54	8	830	10	0.52	2.5	3	924	10	0.15	5	5	38	5	34
LXB20-002	NQ Core	B287197	106.12	107.12	1.00		B287197	0.056	0.8	7.49	2.5	1260	1.7	2	1.2	0.25	5	10	13	1.55	20	2.43	30	0.42	185	5	4.58	5	840	27	1.22	2.5	3	638	10	0.13	5	5	38	10	38
LXB20-002	NQ Core	B287198	107.12	108	0.88		B287198	0.088	1.2	7.86	2.5	1040	1.8	1	1.24	0.25	7	9	5	1.64	20	1.67	30	0.35	173	13	5.54	7	870	33	1.57	2.5	3	550	10	0.12	5	5	37	10	36
LXB20-002	NQ Core	B287199	108.00	109	1.00		B287199	0.079	0.9	7.78	2.5	1300	1.8	1	1.46	0.25	6	11	7	1.66	20	2.23	30	0.46	204	0.5	4.74	6	870	22	1.33	2.5	3	646	10	0.13	5	5	43	10	40
LXB20-002	OREAS 228b - 8.49g/t	B287200			0.00		B287200	8.82	1.4	6.33	31	210	0.25	2	5.71	0.25	41	267	144	7.17	20	0.47	5	4.29	1165	3	1.9	136	410	16	0.48	2.5	33	112	10	0.52	5	5	247	5	89
LXB20-002	NQ Core	B287201	109	110	1.00		B287201	0.241	0.9	7.63	2.5	1410	1.6	2	1.79	0.25	5	14	3	1.65	20	2.27	20	0.54	243	0.5	4.63	6	830	9	0.88	2.5	3	822	10	0.14	5	5	35	10	31
LXB20-002	NQ Core	B287202	110	111	1.00		B287202	0.076	0.25	7.58	2.5	1260	1.7	3	1.53	0.25	5	11	4	1.4	20	2.13	20	0.37	202	18	4.8	7	720	11	0.9	2.5	2	819	10	0.12	5	5	33	10	22
LXB20-002	NQ Core	B287203	111	112	1.00		B287203	0.053	0.7	7.7	2.5	1280	1.7	2	1.43	0.25	5	11	3	1.46	20	1.93	20	0.37	190	2	5.01	5	740	18	1.23	2.5	2	778	10	0.12	5	5	35	10	27
LXB20-002	NQ Core	B287204	112	113	1.00		B287204	0.041	0.8	7.56	2.5	1160	1.6	5	1.19	0.25	6	10	6	1.57	20	1.62	30	0.39	176	36	5.24	5	750	19	1.35	2.5	2	702	10	0.11	5	5	33	10	33
LXB20-002	NQ Core	B287205	113	114	1.00		B287205	0.079	0.25	7.9	2.5	1250	1.4	1	1.65	0.25	4	11	10	1.53	20	1.6	20	0.42	234	5	5.33	5	800	9	1.1	2.5	2	836	10	0.12	5	5	28	5	32
LXB20-002	NQ Core	B287206	114	115	1.00		B287206	0.186	0.7	8.1	2.5	670	1.3	1	1.11	0.25	4	7	4	1.44	20	0.78	30	0.2	180	1	7.05	8	890	15	1.5	2.5	2	595	10	0.09	5	5	17	5	19
LXB20-002	NQ Core	B287207	115	116	1.00		B287207	0.043	0.25	7.06	2.5	1220	1.3	1	1.44	0.25	3	11	12	1.36	20	2.22	20	0.45	206	4	4.19	5	680	12	0.72	2.5	2	842	10	0.12	5	5	33	5	29
LXB20-002	NQ Core	B287208	116	117.5	1.50		B287208	0.019	0.25	7.18	2.5	1340	1.5	1	1.62	0.25	5	29	6	1.61	20	2.33	30	0.7	256	4	4.27	15	790	15	0.15	2.5	3	1025	10	0.16	5	5	40	5	45
LXB20-002	NQ Core	B287209	117.5	119	1.50		B287209	0.043	0.25	7.55	2.5	1490	1.4	1	1.54	0.25	4	10	2	1.45	20	2.73	20	0.5	214	1	4.42	6	750	9	0.23	2.5	2	1145	10	0.15	5	5	34	5	25
LXB20-002	Blank	B287210			0.00		B287210	0.0025	0.25	0.14	2.5	20	0.25	1	32.7	0.25	0.5	1	1	0.11	5	0.04	5	2.1	113	0.5	0.07	1	60	1	0.005	2.5	0.5	82	10	0.01	5	5	1	5	8
LXB20-002	NQ Core	B287211	119	120	1.00		B287211	0.006	0.25	7.28	2.5	1440	1.4	1	1.77	0.25	5	16	2	1.5	20	2.51	20	0.57	215	0.5	4.16	9	760	11	0.02	2.5	2	1265	10	0.16	5	5	32	5	35
LXB20-002	NQ Core	B287212	120	121.5	1.50		B287212	0.045	0.25	7.13	2.5	1370	1.4	2	1.6	0.25	4	10	4	1.4	20	2.6	20	0.49	212	0.5	4.06	5	720	10	0.09	2.5	2	1055	10	0.15	5	5	32	5	29
LXB20-002	NQ Core	B287213	121.5	123	1.50		B287213	0.072	0.25	7.46	2.5	1350	1.5	1	1.71	0.25	5	27	4	1.79	20	2.71	20	0.77	238	0.5	4.1	14	850	9	0.31	2.5	4	1145	10	0.18	5	5	44	5	49
LXB20-002	NQ Core	B287214	123	124	1.00		B287214	0.029	0.25	7.59	2.5	1380	1.4	1	1.57	0.25	5	12	2	1.58	20	2.85	30	0.56	184	0.5	4.19	8	790	8	0.2	2.5	3	1225	10	0.17	5	5	35	5	43
LXB20-002	NQ Core	B287215	124	125	1.00		B287215	0.043	0.25	7.49	2.5	1220	1.3	1	1.54	0.25	4	13	2	1.61	20	2.75	30	0.52	192	0.5	4.28	6	740	9	0.74	2.5	2	1060	10	0.14	5	5	35	10	31
LXB20-002	NQ Core	B287216	125	126.5	1.50		B287216	0.018	0.25	7.6	2.5	1350	1.4	1	1.55	0.25	3	9	2	1.56	20	3.02	30	0.53	195	0.5	4.11	6	780	10	0.25	2.5	2	1125	10	0.16	5	5	37	5	39
LXB20-002	NQ Core	B287217	126.5	128	1.50		B287217	0.028	0.25	7.5	2.5	1310	1.4	1	1.62	0.25	5	10	5	1.53	20	2.64	20	0.53	206	0.5	4.23	5	760	13	0.41	2.5	2	1115	10	0.15	5	5	34	5	41
LXB20-002	NQ Core	B287218	128	129.26	1.26		B287218	0.127	0.25	7.14	2.5	1320	1.3	1	1.36	0.25	4	9	9	1.48	20	2.55	30	0.46	180	4	4.21	5	730	14	1.03	2.5	2	860	10	0.11	5	5	32	5	26
LXB20-002	NQ Core	B287219	129.26	130.5	1.24		B287219	0.041	0.25	7.46	2.5	1320	1.4	1	1.68	0.25	3	10	3	1.56	20	2.88	20	0.54	212	0.5	4.13	5	760	14	0.48	2.5	3	1110	10	0.15	5	5	37	5	38
LXB20-002	OREAS 222 - 1.21g/t	B287220			0.00		B287220	1.205	0.25	7.26	10	90	0.25	1	7.91	0.25	45	167	174	8.09	20	0.24	10	4.59	1330	1	1.68	121	380	6	0.23	2.5	40	194	10	0.59	5	5	277	5	87
LXB20-002	NQ Core	B287221	130.5	131.5	1.00		B287221	0.036	0.25	7.49	2.5	1290	1.3	1	1.64	0.25	5	9	7	1.57	20	2.61	30	0.54	198	0.5	4.1	6	740	10	0.42	2.5	3	1185	10	0.15	5	5	35	5	38
LXB20-002	NQ Core	B287222	131.5	132.5	1.00		B287222	0.045	0.25	7.63	2.5	1420	1.4	2	1.63	0.25	4	10	2	1.51	20	3	30	0.57	187	0.5	4.29	6	790	11	0.6	2.5	3	1195	10	0.16	5	5	37	20	31
LXB20-002	NQ Core	B287223	132.5	134	1.50		B287223	0.031	0.25	7.25	2.5	1280	1.4	2	1.76	0.25	4	11	3	1.6	20	2.62	20	0.57	223	0.5	4.13	7	760	9	0.41	2.5	3	1155	10	0.16	5	5	37	30	39
LXB20-002	NQ Core	B287224	134	135.5	1.50		B287224	0.0025	0.25	7.25	2.5	1270	1.4	1	1.52	0.25	5	11	13	1.6	20	2.65	30	0.57	209	1	4.17	6	790	14	0.51	2.5	3	1125	10	0.16	5	5	37	5	46
LXB20-002	NQ Core	B287225	135.5	137	1.50		B287225	0.029	0.25	7.4	2.5	1330	1.5	1	1.61	0.25	4	10	6	1.58	20	2.66	30	0.57	210	1	4.25	7	790	16	0.34	2.5	3	1180	10	0.17	5	5	36	5	48
LXB20-002	NQ Core	B287226	137	138	1.00		B287226	0.048	0.25	7.5	2.5	1340	1.6	1	1.59	0.25	5	9	3	1.59	20	2.72	30	0.54	203	0.5	4.24	7	770	14	0.37	2.5	2	1200	10	0.17	5	5	34	5	43
LXB20-002	NQ Core	B287227	138	139	1.00		B287227	0.024	0.25	7.24	2.5	1300	1.6	1	1.54	0.25	4	9	3	1.55	20	2.44	20	0.53	179	0.5	4.11	5	760	9	0.4	2.5	2	1170	10	0.16	5	5	34	5	38
LXB20-002	NQ Core	B287228	139	140	1.00		B287228	0.008	0.25	7.89	2.5	1440	1.8	2	1.61	0.25	4	10	6	1.64	20	2.75	30	0.58	205	0.5	4.45	6	820	12	0.25	2.5	3	1310	10	0.19	10	5	36	5	52
LXB20-002	NQ Core	B287229	140	141	1.00		B287229	0.038	0.25	7.29	2.5	1200	1.3	2	1.47	0.25	4	11	2	1.5	20	2.8	20	0.5	186	0.5	4.06	5	780	11	0.19	2.5	2	1085	10	0.15	5	5	34	5	42
LXB20-002	Blank	B287230			0.00		B287230	0.0025	0.25	0.07	2.5	20	0.25	2	35.1	0.25	0.5	1	1	0.1	5	0.02	5	2.1	115	0.5	0.03	2	90	1	0.01	2.5	0.5	91	10	0.005	5	5	1	5	4
LXB20-002	NQ Core	B287231	141	142.5	1.50		B287231	0.04	0.25	7.13	2.5	1290	1.2	3	1.44	0.25	3	10	8	1.43	20	2.73	30	0.44	187	0.5	3.85	6	720	11	0.72	2.5	2	856	10	0.12	5	5	31	5	33
LXB20-002	NQ Core	B287232	142.5	144	1.50		B287232	0.038	0.25	6.78	2.5	1200	1	1	1.27	0.25	4	10	8	1.35	20	2.92	20	0.42	164	0.5	3.52	4	670	12	0.54	2.5	2	836	10	0.11	5	5	31	5	37
LXB20-002	NQ Core	B287233	144	145	1.00		B287233	0.073	0.25	7.07	2.5	1210	1	1	1.48	0.25	4	9	7	1.44	20	2.67	20	0.46	184	0.5	3.76	5	690	14	0.56	5	2	922	10	0.13	5	5	33	5	36
LXB20-002	NQ Core	B287234	145	146	1.00		B287234	0.062	0.25	6.34	2.5	1060	1	1	1.24	0.25	3	15	7	1.37	20	2.5	20	0.42	169	0.5	3.41	4	660	10	0.84	2.5	2	664	10	0.11	5	5	30	10	32
LXB20-002	NQ Core	B287235	146	147	1.00		B287235	0.265	0.7	6.44	2.5	1200	1.1	3	1.29	0.25	3	11	5	1.38	20	2.64	20	0.42	146	0.5	3.18	4	670	22	0.89	2.5	2	801	10	0.12	5	5	32	5	34
LXB20-002	NQ Core	B287236	147	148	1.00		B287236	0.064	0.25	6.28	2.5	1120	1	1	1.29	0.25	3	11	4	1.19	20	2.71	20	0.38	140	0.5	3.17	4	650	8	0.56	2.5	2	801	10	0.11	5	5	27	5	23
LXB20-002	NQ Core	B287237	148	148.63	0.63		B287237	0.029	0.25	6.98	2.5	1270	1.3	1	1.29	0.25	4	12	11	1.5	20	2.84	30	0.45	172	0.5	3.72	6	760	11	0.85	2.5	2	816	10	0.12	5	5	34	5	35
LXB20-002	NQ Core	B287238	148.63	149.3	0.67		B287238	0.016	0.25	6.54	2.5	1190	1.2	1	1.13	0.25	4	11	6	1.47	20	2.74	20	0.38	148	0.5	3.64	5	690	13	1.14	2.5	2	727	10	0.1	5	5	33	5	23
LXB20-002	NQ Core	B287239	149.3	150.3	1.00		B287239	0.025	0.25	6.12	2.5	1020	1	3	0.96	0.25	3	11	6	1.33	20	2.45	20	0.34	139	1	3.4	5	650	22	1.05	2.5	2	591	10	0.09	5	5	29	20	29
LXB20-002	OREAS 228b - 8.49g/t	B287240			0.00		B287240	8.7	1	6.23	31	210	0.25	1	5.74	0.25	39	259	147	7.22	20	0.46	10	4.3	1155	3	1.9	135	390	18	0.49	2.5	33	109	10	0.54	5	5	240	5	90
LXB20-002	NQ Core	B287241	150.3	151.3	1.00		B287241	0.005	0.25	6.32	2.5	1120	1.1	1	1.27	0.25	3	12	3	1.34	20	2.79	20	0.43	164	0.5	3.12	5	660	11	0.19	2.5	2	862	10	0.12	5	5	31	5	45
LXB20-002	NQ Core	B287242	151.3	152.5	1.20		B287242	0.0025	0.25	6.44	2.5	1220	1.1	1	1.17	0.25	3	13	4	1.4	20	2.96	20	0.44	166	0.5	3.16	5	700	10	0.14	2.5	2	873	10	0.13	5	5	34	5	43
LXB20-002	NQ Core	B287243	152.5	154	1.50		B287243	0.022	0.25	6.87	2.5	1150	1.1	1	1.36	0.25	4	17	6	1.3	20	2.53	20	0.46	169	1	3.29	6	650	8	0.2	2.5	2	964	10	0.13	5	5	31	5	43
LXB20-002	NQ Core	B287244	154	155.5	1.50		B287244	0.027	0.25	7.99	2.5	1430	1.3	1	1.75	0.25	4	22	12	1.45	20	2.32	20	0.56	203	1	4.23	8	700	13	0.18	2.5	3	1265	10	0.16	5	5	34	5	50
LXB20-002	NQ Core	B287245	155.5	157	1.50		B287245	0.44	0.5	7.29	2.5	1180	1.2	1	1.65	0.25	5	20	8	1.52	20	2.17	20	0.52	189	0.5	3.79	7	690	7	0.65	2.5	2	950	10	0.14	5	5	30	5	35
LXB20-002	NQ Core	B287246	157	158.5	1.50		B287246	0.09	0.25	6.91	2.5	1150	1.2	1	1.21	0.25	4	15	14	1.42	20	2.33	20	0.56	168	0.5	3.42	5	730	9	0.55	2.5	2	786	10	0.14	5	5	34	5	34
LXB20-002	NQ Core	B287247	158.5	160	1.50		B287247	0.034	0.25	6.83	2.5	1180	1.1	1	1.27	0.25	4	17	12	1.34	20	2.39	20	0.52	167	1	3.32	7	700	12	0.43	2.5	2	834	10	0.14	5	5	33	5	38

Hole ID	Type	Number	From (m)	To (m)	Sample Interval (m)	Comments	SAMPLE	Au_ppm	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	K_pct	La_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_ppm	Pb_ppm	S_pct	Sb_ppm	Sc_ppm	Sr_ppm	Th_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
LXB20-002	NQ Core	B287248	160	161	1.00		B287248	0.019	0.25	6.17	2.5	1080	0.9	1	1.16	0.25	3	14	6	1.23	20	2.63	20	0.44	149	0.5	2.84	4	640	8	0.41	2.5	2	687	10	0.13	5	5	30	5	36
LXB20-002	NQ Core	B287249	161	161.64	0.64		B287249	0.035	0.25	6.29	2.5	1120	1	1	1.21	0.25	2	15	7	1.26	20	2.35	20	0.46	165	1	2.99	4	670	14	0.36	2.5	2	840	10	0.13	5	5	30	5	40
LXB20-002	Blank	B287250			0.00		B287250	0.0025	0.25	0.09	2.5	20	0.25	1	34	0.25	0.5	4	0.5	0.11	5	0.02	5	1.37	117	0.5	0.03	0.5	70	1	0.005	2.5	0.5	88	10	0.01	10	5	1	5	3
LXB20-002	NQ Core	B287251	161.64	162.64	1.00		B287251	0.042	0.25	6.51	2.5	1180	1	1	1.03	0.25	3	15	10	1.32	20	2.66	20	0.46	144	1	3.12	4	670	12	0.71	2.5	2	680	10	0.13	5	5	31	5	32
LXB20-002	NQ Core	B287252	162.64	163.64	1.00		B287252	0.021	0.25	5.4	2.5	940	0.8	1	0.92	0.25	2	17	5	1.07	20	2.29	20	0.4	132	0.5	2.4	4	550	9	0.23	2.5	2	572	10	0.12	5	5	25	5	30
LXB20-002	NQ Core	B287253	163.64	165	1.36		B287253	0.123	0.25	5.84	2.5	980	0.9	1	1.21	0.25	4	21	4	1.32	20	2.33	20	0.41	147	0.5	2.68	4	620	5	0.63	2.5	2	611	10	0.13	5	5	31	5	22
LXB20-002	NQ Core	B287254	165	166.5	1.50		B287254	0.011	0.25	6.59	2.5	1060	1.1	1	1.34	0.25	3	24	4	1.36	20	2.24	20	0.55	175	1	3.39	8	690	10	0.29	2.5	3	787	10	0.15	5	5	33	5	34
LXB20-002	NQ Core	B287255	166.5	167.5	1.00		B287255	0.01	0.25	6.76	2.5	1190	1.2	1	1.49	0.25	5	19	6	1.55	20	2.38	30	0.6	204	0.5	3.27	7	820	10	0.24	2.5	3	996	10	0.17	5	5	37	5	44
LXB20-002	NQ Core	B287256	167.5	168.43	0.93		B287256	0.018	0.25	6.9	2.5	1220	1.1	1	1.44	0.25	4	23	10	1.54	20	2.56	30	0.57	199	1	3.33	7	800	13	0.45	2.5	3	812	10	0.18	5	5	36	5	43
LXB20-002	NQ Core	B287257	168.43	169.68	1.25		B287257	0.199	0.25	6.44	2.5	1090	1.1	1	0.99	0.25	3	13	15	1.31	20	2.21	20	0.48	159	3	3.46	6	760	14	0.7	2.5	2	803	10	0.13	5	5	34	5	33
LXB20-002	NQ Core	B287258	169.68	171	1.32		B287258	0.082	0.25	6.83	2.5	1190	1.1	1	1.54	0.25	4	15	5	1.53	20	2.44	20	0.53	190	1	3.31	5	780	8	0.46	2.5	3	966	10	0.16	5	5	33	5	39
LXB20-002	NQ Core	B287259	171	172.5	1.50		B287259	0.057	0.25	6.96	2.5	1200	1.2	1	1.46	0.25	4	16	3	1.41	20	2.56	20	0.49	179	1	3.37	6	720	14	0.39	2.5	2	1065	10	0.15	5	5	32	5	34
LXB20-002	OREAS 222 - 1.21g/t	B287260			0.00		B287260	1.185	0.25	7.34	11	90	0.25	7	7.91	0.9	45	187	165	7.77	20	0.23	10	4.58	1345	0.5	1.62	114	400	6	0.22	2.5	42	195	10	0.58	10	5	282	5	87
LXB20-002	NQ Core	B287261	172.5	174	1.50		B287261	0.069	0.25	6.18	2.5	1080	1.1	1	1.38	0.25	4	18	3	1.24	20	2.15	20	0.41	178	0.5	3.09	6	590	7	0.49	2.5	2	831	10	0.13	5	5	28	40	23
LXB20-002	NQ Core	B287262	174	175.5	1.50		B287262	0.126	0.25	7	2.5	1330	1.1	1	1.74	0.25	3	13	5	1.29	20	2.51	20	0.46	186	0.5	3.32	4	660	10	0.31	2.5	2	931	10	0.15	5	5	31	5	34
LXB20-002	NQ Core	B287263	175.5	177	1.50		B287263	0.534	0.9	6.63	2.5	1140	1	1	1.4	0.25	2	18	14	1.26	20	2.44	20	0.43	161	0.5	3.15	6	620	10	0.43	2.5	2	786	10	0.14	5	5	28	5	31
LXB20-002	NQ Core	B287264	177	178.2	1.20		B287264	0.08	0.25	6.89	2.5	1200	1.2	1	1.34	0.25	3	16	7	1.28	20	2.31	20	0.43	168	1	3.34	4	620	12	0.33	2.5	2	1020	10	0.14	5	5	28	10	34
LXB20-002	NQ Core	B287265	178.2	179	0.80		B287265	0.12	0.25	7.48	2.5	1320	1.4	2	1.59	0.25	4	19	4	1.45	20	2.53	20	0.52	218	0.5	3.67	6	730	9	0.57	2.5	2	1080	10	0.16	5	5	34	20	21
LXB20-002	NQ Core	B287266	179	180.5	1.50		B287266	0.106	0.25	7.2	2.5	1220	1.3	1	1.57	0.25	4	14	4	1.42	20	2.53	20	0.48	177	2	3.82	7	690	9	0.54	2.5	2	1110	10	0.14	5	5	31	10	26
LXB20-002	NQ Core	B287267	180.5	182	1.50		B287267	0.053	0.25	7.28	2.5	1210	1.3	1	1.56	0.25	4	13	2	1.41	20	2.68	20	0.46	184	1	3.78	7	680	9	0.63	2.5	2	1050	10	0.15	5	5	31	10	20
LXB20-002	NQ Core	B287268	182	183	1.00		B287268	0.083	0.25	7.31	2.5	1420	1.3	1	1.66	0.25	4	14	2	1.48	20	2.78	20	0.49	178	2	3.88	7	720	9	0.87	2.5	2	1205	10	0.15	5	5	33	10	18
LXB20-002	NQ Core	B287269	183	184.15	1.15		B287269	0.132	0.25	7.11	2.5	1260	1.4	1	1.56	0.25	4	16	2	1.4	20	2.75	20	0.45	206	1	3.87	5	660	9	0.81	2.5	2	1065	10	0.14	5	5	32	20	15
LXB20-002	Blank	B287270			0.00		B287270	0.0025	0.25	0.07	2.5	20	0.25	1	31.8	0.25	0.5	1	1	0.12	5	0.02	5	2.4	118	0.5	0.03	0.5	70	2	0.005	2.5	0.5	78	10	0.005	5	5	0.5	5	5
LXB20-002	NQ Core	B287271	184.15	184.7	0.55		B287271	0.514	0.5	5.79	2.5	790	1	2	2.04	0.25	3	10	1	1.1	20	1.64	20	0.35	288	13	3.66	4	540	7	0.85	2.5	2	824	10	0.11	5	5	14	70	6
LXB20-002	NQ Core	B287272	184.7	185.7	1.00		B287272	0.279	0.25	6.95	2.5	1370	1.3	2	1.52	0.25	4	13	2	1.38	20	2.72	20	0.45	156	0.5	3.62	5	670	6	0.81	2.5	2	1145	10	0.14	5	5	30	10	15
LXB20-002	NQ Core	B287273	185.7	187	1.30		B287273	0.244	0.25	7.51	2.5	1350	1.4	1	1.59	0.25	3	14	4	1.4	20	2.68	20	0.49	171	0.5	3.8	6	710	8	0.5	2.5	2	1240	10	0.16	5	5	33	10	23
LXB20-002	NQ Core	B287274	187	188.5	1.50		B287274	0.124	0.25	7.52	2.5	1340	1.4	1	1.63	0.25	4	14	3	1.47	20	2.59	20	0.51	173	2	3.9	7	730	11	0.43	2.5	2	1200	10	0.16	5	5	33	10	32
LXB20-002	NQ Core	B287275	188.5	190	1.50		B287275	0.076	0.5	7.77	2.5	1420	1.5	1	1.66	0.25	4	14	7	1.44	20	2.67	20	0.52	182	0.5	3.97	5	740	12	0.22	2.5	2	1280	10	0.18	5	5	33	10	41
LXB20-002	NQ Core	B287276	190	191.5	1.50		B287276	0.092	0.5	7.63	2.5	1290	1.4	1	1.59	0.25	5	12	9	1.46	20	2.5	20	0.49	176	1	4.05	6	730	10	0.28	2.5	2	1175	10	0.17	5	5	33	50	41
LXB20-002	NQ Core	B287277	191.5	193	1.50		B287277	0.033	0.25	7.43	2.5	1340	1.4	1	1.59	0.25	5	27	2	1.44	20	2.48	20	0.48	171	1	3.9	5	720	11	0.16	2.5	2	1260	10	0.17	5	5	31	10	38
LXB20-002	NQ Core	B287278	193	194.5	1.50		B287278	0.202	0.25	7.57	2.5	1310	1.4	1	1.64	0.25	5	14	2	1.53	20	2.55	20	0.49	188	17	4.09	8	730	10	0.38	2.5	2	1180	10	0.16	5	5	32	10	38
LXB20-002	NQ Core	B287279	194.5	196	1.50		B287279	0.057	0.25	7.28	2.5	1260	1.3	1	1.49	0.25	4	14	1	1.4	20	2.66	20	0.47	165	1	3.78	6	680	8	0.19	2.5	2	1115	10	0.15	5	5	31	10	37
LXB20-002	OREAS 228b - 8.49g/t	B287280			0.00		B287280	8.65	1.6	6.11	31	210	0.25	1	5.46	0.5	38	261	138	6.93	20	0.45	5	4.12	1105	3	1.84	128	380	16	0.46	7	32	102	10	0.51	5	5	234	5	85
LXB20-002	NQ Core	B287281	196	197	1.00		B287281	0.037	0.25	7.57	2.5	1210	1.6	1	1.11	0.25	5	18	7	1.64	20	2.52	30	0.52	156	0.5	4.45	8	750	14	0.96	2.5	3	881	10	0.14	5	5	37	10	32
LXB20-002	NQ Core	B287282	197	198	1.00		B287282	0.112	0.5	7.54	2.5	1330	1.4	1	1.52	0.25	4	12	9	1.45	20	2.62	20	0.5	170	5	4	5	720	10	0.37	2.5	2	1145	10	0.15	5	5	31	10	37
LXB20-002	NQ Core	B287283	198	199	1.00		B287283	0.017	0.25	7.41	2.5	1330	1.5	1	1.53	0.25	4	14	4	1.44	20	2.59	20	0.49	175	0.5	4.12	5	720	9	0.44	2.5	2	1160	10	0.15	5	5	31	5	38
LXB20-002	NQ Core	B287284	199	199.8	0.80		B287284	0.055	0.25	7.43	2.5	1300	1.5	1	1.56	0.25	4	13	9	1.46	20	2.64	20	0.52	201	0.5	4	6	730	12	0.37	2.5	2	1035	10	0.15	5	5	34	10	41
LXB20-002	NQ Core	B287285	199.8	200.64	0.84		B287285	0.044	0.25	6.7	2.5	470	1.3	1	1.36	0.25	2	15	5	1.1	20	1.13	20	0.36	195	1	4.85	4	650	10	0.8	2.5	2	679	10	0.12	5	5	20	420	14
LXB20-002	NQ Core	B287286	200.64	201.64	1.00		B287286	0.051	0.25	7.69	2.5	1320	1.5	1	1.59	0.25	3	17	4	1.47	20	2.61	20	0.49	193	0.5	4.33	7	730	9	0.71	2.5	2	1045	10	0.15	5	5	33	70	26
LXB20-002	NQ Core	B287287	201.64	203	1.36		B287287	0.135	0.25	7.7	2.5	1420	1.5	1	1.6	0.25	5	12	11	1.55	20	2.57	20	0.51	192	39	4.24	6	750	11	0.59	2.5	2	1165	10	0.15	5	5	33	10	41
LXB20-002	NQ Core	B287288	203	204.5	1.50		B287288	0.008	0.25	8.09	2.5	1420	1.5	1	1.76	0.25	4	17	13	1.59	20	2.63	20	0.55	199	0.5	4.33	8	800	17	0.29	2.5	3	1280	10	0.17	5	5	34	5	54
LXB20-002	NQ Core	B287289	204.5	206	1.50		B287289	0.007	0.25	7.77	2.5	1450	1.5	1	1.58	0.25	4	15	10	1.5	20	2.58	20	0.51	169	0.5	4.09	5	750	15	0.29	2.5	2	1265	10	0.16	5	5	32	5	45
LXB20-002	Blank	B287290			0.00		B287290	0.0025	0.25	0.36	2.5	50	0.25	2	31.3	0.25	0.5	1	1	0.12	10	0.12	5	1.48	105	0.5	0.2	0.5	70	2	0.005	2.5	0.5	79	10	0.005	5	5	0.5	5	3
LXB20-002	NQ Core	B287291	206	207	1.00		B287291	0.052	4.4	6.84	2.5	980	1.5	11	1.08	0.25	3	9	17	1.32	20	1.7	20	0.38	132	3	4.28	4	590	37	1	2.5	2	731	10	0.1	5	5	27	5	25
LXB20-002	NQ Core	B287292	207	208	1.00		B287292	0.033	1.3	7.73	2.5	1430	1.6	2	1.27	0.25	4	12	14	1.41	20	2.32	20	0.43	153	0.5	4.59	5	660	26	0.9	2.5	2	964	10	0.11	5	5	34	10	29
LXB20-002	NQ Core	B287293	208	209	1.00		B287293	0.015	0.8	7.64	2.5	1400	1.9	2	1.27	0.25	4	11	9	1.32	20	2.31	20	0.45	148	1	4.68	5	650	22	0.91	2.5	2	1000	10	0.12	5	5	33	10	25
LXB20-002	NQ Core	B287294	209	210	1.00		B287294	0.036	0.6	7.26	2.5	1390	1.6	1	1.29	0.25	4	21	20	1.34	20	2.05	20	0.47	164	0.5	4.3	7	640	15	0.85	2.5	3	866	10	0.12	5	5	32	5	30
LXB20-002	NQ Core	B287295	210	211	1.00		B287295	0.081	1.2	7.31	2.5	1180	1.5	2	1.18	0.25	5	14	23	1.4	20	2.01	20	0.38	148	8	4.53	5	640	23	1.08	2.5	2	786	10	0.1	5	5	30	100	27
LXB20-002	NQ Core	B287296	211	212	1.00		B287296	0.079	1	7.32	2.5	980	1.5	1	1.14	0.25	6	43	12	1.66	20	1.88	30	0.4	150	1	4.68	7	710	22	1.37	2.5	2	679	10	0.11	5	5	29	10	26
LXB20-002	NQ Core	B287297	212	213	1.00		B287297	0.327	1.9	7.67	2.5	1380	1.5	2	1.37	0.25	5	10	18	1.45	20	2.3	20	0.41	163	0.5	4.37	7	750	30	1.06	2.5	2	921	10	0.12	5	5	32	10	61
LXB20-002	NQ Core	B287298	213	214	1.00		B287298	0.026	0.6	7.62	2.5	1630	1.4	1	1.32	0.25	4	11	16	1.39	20	2.77	30	0.46	169	0.5	4.15	5	760	22	0.83	2.5	2	945	10	0.13	5	5	33	10	35
LXB20-002	NQ Core	B287299	214	215	1.00		B287299	0.041	0.25	7.31	2.5	1380	1.4	1	1.47	0.25	4	12	5	1.37	20	2.77	20	0.46	178	0.5	3.88	7	730	14	0.36	2.5	2	1100	10	0.14	5	5	30	20	36
LXB20-002	OREAS 228b - 8.49g/t	B287300			0.00		B287300	8.73	1.6	6	30	200	0.25	1	5.44	0.6	38	266	135	6.84	20	0.44	5	4.03	1095	3	1.81	127	380	16	0.45	5	32	100	10	0.5	5	5	234	5	84
LXB20-002	NQ Core	B287301	215	216	1.00		B287301	0.027	0.25	7.14	2.5	1270	1.3	1	1.33	0.25	4	12	5	1.35	20	2.21	20	0.43	175	0.5	4.31	5	730	10	0.76	2.5	2	904	10	0.13	5	5	29	20	30
LXB20-002	NQ Core	B287302	216	217	1.00		B287302	0.109	0.5	7.02	2.5	1280	1.3	2	1.49	0.25	5	14	8	1.39	20	2.35	20	0.4	184	33	4.24	3	720	12	0.86	2.5	2	978	10	0.12	5	5	29	10	33
LXB20-002	NQ Core	B287303	217	218	1.00		B287303	0.082	0.5	6.78	2.5	1280	1.1	2	1.38	0.25	4	12	2	1.27	20	2.54	20	0.42	159	0.5	3.84	4	610	9	0.39	2.5	2	1020	10	0.12	5	5	28	40	30
LXB20-002	NQ Core	B287304	218	219	1.00		B287304	0.017	0.25	4.8	2.5	840	0.8	1	1	0.25	3	15	2	1.02	10	2.02	20	0.3	124	0.5	2.4	3	480	6	0.34	2.5	1	608	10	0.08	5	5	22	5	22
LXB20-002	NQ Core	B287305	219	220	1.00		B287305	0.033	0.25	5.64	2.5	1030	0.9	1	1.11	0.25	3	12	1	1.2	20	2.39	20	0.37	130	0.5	2.87	2	550	5	0.46	2.5	2	817	10	0.11	5	5	26	5	19
LXB20-002	NQ Core	B287306	220	221	1.00		B287306	0.054	0.25	7.04	2.5	1250	1.3	1	1.5	0.25	5	13	2	1.54	20	2.47	20	0.48	179	8	3.96	4	720	8	0.91	2.5	2	1045	10	0.13	5	5	32	10	21
LXB20-002	NQ Core	B287307	221	222	1.00		B287307	0.056	0.25	7.35	2.5	1390	1.3	1	1.68	0.25	4	11	6	1.42	20	2.78	20	0.51	202	0.5	3.96	4	780	10	0.62	2.5	2	1070	10	0.14	5	5	34	10	29
LXB20-002	NQ Core	B287308	222	222.81	0.81		B287308	0.087	0.25	6.9	2.5	1260	1.2	2	1.65	0.25	7	12	3	2.08	20	2.97	20	0.46	213	0.5	3.66	7	700	13	1.8	2.5	2	913	10	0.12	5	5	34	10	17
LXB20-002	NQ Core	B287309	222.81	223.81	1.00		B287309	0.26	0.7	7.97	2.5	1320	1.7	4	2.82	0.25	8	16	20	2.5	20	2.71	20	0.9	449	1	3.77	7	1030	8	0.53	2.5	5	1195	10	0.22	5	5	57	40	47
LXB20-002	Blank	B287310			0.00		B287310	0.0025	0.25	0.07	2.5	30	0.25	1	31.6	0.25	0.5	1	0.5	0.14	5	0.02	5	1.95	112	0.5	0.04	5	70	1	0.02	2.5	0.5	81	10	0.005	5	5	1	20	2
LXB20-002	NQ Core	B287311	223.81	225	1.19		B287311	0.361	0.9	7.52	2.5	1260	1.6	2	2.78	0.25	8	15	13	2.44	20	2.65	20	0.85	442	0.5	3.66	6	1000	7	0.75	2.5	5	1165	10	0.21	5	5	51	140	40
LXB20-002	NQ Core	B287312	225	226	1.00		B287312	0.058	0.25	7.96	2.5	1250	1.6	2	2.79	0.25	7	16	10	2.43	20	2.32	30	0.94	458	0.5	3.81	7	1030	6	0.52	2.5	5	1110	10	0.22	5	5	52	10	46
LXB20-002	NQ Core	B287313	226	227	1.00		B287313	0.044	0.5	7.3	2.5	1240	1.4	2	3.08	0.25	7	14	10	2.38	20	2.73	20	0.86	417	0.5	3.66	5	1000	5	0.65	2.5	5	865	10	0.21	5	5	53	5	41
LXB20-002	NQ Core	B287314	227	228	1.00		B287314	0.068	0.5	7.83	2.5	1240	1.6	1	2.69	0.25	7	14	8	2.42	20	2.44	20	0.94	445	0.5	3.64	4	1020	6	0.42	2.5	5	1070	10	0.23	5	5	53	10	52
LXB20-002	NQ Core	B287315	228	229.29	1.29		B287315	0.135	0.25	8.29	2.5	1140	1.7	1	3.01	0.25	8	21	13	2.56	20	1.59	30	0.94	483	0.5	3.8	7	1080	8	0.14	2.5	5	1300	10	0.24	5	5	54	5	55
LXB20-002	NQ Core	B287316	229.29	230.5	1.21		B287316	0.059	0.6	7.78	2.5	180	0.7	1	6.3	0.25	33	103	56	6.88	20	1.2	10	2.04	1515	6	2.41	36	780	2	0.22	2.5	23	536	10	1.05	5	5	201	10	112
LXB20-002	NQ Core	B287317	230.5	232	1.50		B287317	0.031	0.6	7.94	2.5	170	0.9	1	6.16	0.25	35	114	62	6.62	20	1.52	10	2.09	1480	5	2.38	39	1000	2	0.22	2.5	23	523	10	1.09	5	5	202	20	114
LXB20-002	NQ Core	B287318	232	233.5	1.50		B287318	0.051	0.6	7.93	2.5	120	0.9	1	5.52	0.25	33	122	43	6.19	20	1.22	10	2.1	1700	6	2.61	38	1270	2	0.24	2.5	22	549	10	1.11	5	5	196	20	119
LXB20-002	NQ Core	B287319	233.5	235	1.50		B287319	0.016	0.5	8	2.5	110	0.9	1	6.55	0.25	33	128	45	6.76	20	0.77	10	1.65	2140	2	2.28	43	1260	1	0.31	2.5	23	405	10	1.12	5	5	200	10	118
LXB20-002	OREAS 222 - 1.21g/t	B287320			0.00		B287320	1.215	0.7	7.14	6	90	0.25	1	7.44	0.25	43	168	163	7.79	20	0.24	5	4.35	1300	1	1.62	115	360	4	0.2	2.5	39	183	10	0.57	5	5	270	5	85
LXB20-002	NQ Core	B287321	235	236	1.00		B287321	0.017	0.5	7.95	2.5	130	0.8	1	6.43	0.25	38	130	49	8.29	20	1.03	10	2.35	2730	2	2.39	44	1200	1	0.29	5	23	387	10	1.15	5	5	206	10	135
LXB20-002	NQ Core	B287322	236	237.5	1.50		B287322	0.025	0.5	7.57	2.5	170	0.8	1	5.72	0.25	30	116	88	7.54	20	1.33	10	2.48	2420	9	2.33	42	1150	3	0.31	2.5	21	503	10	1.05	10	5	187	10	120
LXB20-002	NQ Core	B287323	237.5	238.67	1.17		B287323	0.159	0.7	6.6	2.5	410	1	1	5.9	0.25	30	82	117	8.13	20	1.98	10	2	2080	14	2.35	32	950	4	0.93	2.5	14	612	10	0.7	5	5	147	40	107
LXB20-002	NQ Core	B287324	238.67	239.22	0.55		B287324	0.022	0.25	7.7	2.5	720	1.4	1	1.99	0.25	8	22	13	2.13	20	1.11	30	0.73	385	1	4.41	8	980	4	0.22	2.5	4	1085	10	0.27	5	5	56	5	52
LXB20-002	NQ Core	B287325	239.22	239.8	0.58		B287325	0.099	0.7	7.71	2.5	670	0.8	1	5.97	0.25	34	113	107	6.31	20	1.98	10	1.62	1485	2	2.46	44	1410	8	0.7	2.5	21	744	10	1.08	5	5	177	5	135
LXB20-002	NQ Core	B287326	239.8	240.76	0.96		B287326	0.038	0.25	8.17	2.5	1310	1.5	1	1.77	0.25	7	13	2	1.89	20	1.36	30	0.64	267	0.5	4.56	6	940	7	0.25	2.5	3	1390	10	0.24	5	5	41	5	49
LXB20-002	NQ Core	B287327	240.76	242.27	1.51		B287327	0.057	0.5	8.02	2.5	450	1	1	4.91	0.25	33	121	76	7.55	20	2.42	10	1.96	1720	2	2.65	45	1100	5	0.45	2.5	21	627	10	1.06	5	5	192	10	121
LXB20-002	NQ Core	B287328	242.27	243.37	1.10		B287328	0.051	0.25	7.77	2.5	1060	1.4	2	1.89	0.25	7	17	4	2.08	20	1.6	20	0.68	304	1	4.19	9	870	6	0.37	2.5	4	1015	10	0.27	5	5	51	20	40
LXB20-002	NQ Core	B287329	243.37	244.46	1.09		B287329	0.019	0.25	7.97	2.5	1450	1.4	1	1.73	0.25	5	12	2	1.67	20	1.79	30	0.59	210	0.5	4.29	4	870	10	0.34	2.5	3	1375	10	0.22	5	5	39	10	37
LXB20-002	Blank	B287330			0.00		B287330	0.0025	0.25	0.25	2.5	40	0.25	1	31.8	0.25	0.5	3	4	0.23	5	0.07	5	2.27	115	0.5	0.11	6	100	1	0.04	2.5	1	83	10	0.04	5	5	10	5	4
LXB20-002	NQ Core	B287331	244.46	245.76	1.30		B287331	0.177	0.6	7.72	2.5	320	0.8	1	4.02	0.25	15	29	35	4.3	20	1.6	10	1.26	730	3	3.29	28	870	3	0.47	2.5	18	455	10	0.53	5	5	127	10	52
LXB20-002	NQ Core	B287332	245.76	247.06	1.30		B287332	0.096	0.5	7.63	2.5	340	0.8	1	5.22	0.25	28	92	49	5.83	20	1.92	10	2.34	1225	11	2.2	50	1170	2	0.26	2.5	18	525	10	0.9	5	10	159	5	116
LXB20-002	NQ Core	B287333	247.06	248	0.94		B287333	0.039	0.25	7.83	2.5	1300	1.6	3	1.64	0.25	5	12	3	1.56	20	1.83	20	0.54	231	0.5	4.26	3	790	10	0.26	2.5	3	1140	10	0.19	5	5	36	10	40
LXB20-002	NQ Core	B287334	248	249.5	1.50		B287334	0.021	0.25	7.92	2.5	1320	1.7	1	1.85	0.25	5	11	3	1.61	20	2.36	30	0.56	224	5	4.48	4	820	9	0.69	2.5	2	1280	10	0.17	5	5	35	10	32
LXB20-002	NQ Core	B287335	249.5	251	1.50		B287335	0.012	0.5	8.29	2.5	1610	1.6	1	1.82	0.25	5	12	4	1.8	20	2.65	30	0.61	215	0.5	4.49	6	920	11	0.52	2.5	3	1480	10	0.2	5	5	40	10	47
LXB20-002	NQ Core	B287336	251	252.5	1.50		B287336	0.008	0.25	8.11	2.5	1430	1.6	6	1.7	0.25	5	16	3	1.67	20	2.38	30	0.59	208	0.5	4.5	6	880	10	0.4	2.5	3	1365	10	0.19	5	5	37	10	46
LXB20-002	NQ Core	B287337	252.5	254	1.50		B287337	0.016	0.25	7.72	2.5	1440	1.6	2	1.71	0.25	4	12	8	1.64	20	2.44	20	0.57	205	1	4.52	5	880	11	0.9	2.5	3	1335	10	0.17	5	5	36	10	29
LXB20-002	NQ Core	B287338	254	255	1.00		B287338	0.038	0.25	7.47	5	1450	1.6	1	1.73	0.25	4	12	5	1.59	20	2	20	0.57	224	1	4.24	7	820	13	0.89	2.5	3	1190	10	0.14	5	5	37	10	28
LXB20-002	NQ Core	B287339	255	256	1.00		B287339	0.154	0.25	7.68	2.5	570	1.8	1	3.08	0.25	13	34	34	3.13	20	1.78	20	1.16	773	15	4.78	23	900	7	0.6	2.5	10	840	10	0.39	5	5	96	30	59
LXB20-002	OREAS 228b - 8.49g/t	B287340			0.00		B287340	8.82	0.9	6.24	32	210	0.25	1	5.81	0.6	40	269	142	7.11	10	0.46	10	4.34	1165	3	1.89	131	400	21	0.48	2.5	33	110	10	0.52	5	5	245	10	89
LXB20-002	NQ Core	B287341	256	257	1.00		B287341	0.657	0.25	7.65	2.5	710	1.8	1	1.84	0.25	8	20	2	2.14	20	1.05	30	0.63	353	0.5	5.12	9	880	6	1.11	2.5	4	956	10	0.19	5	5	43	20	35
LXB20-002	NQ Core	B287342	257	258	1.00		B287342	0.49	0.25	7.64	2.5	830	1.7	2	2.65	0.25	13	45	17	3.43	20	1.39	20	1	636	66	4.75	17	870	7	1.17	2.5	8	949	10	0.4	5	5	90	50	56
LXB20-002	NQ Core	B287343	258	259	1.00		B287343	0.482	0.25	7.7	2.5	770	1.8	1	2.7	0.25	8	26	5	2.37	20	1.17	20	0.73	542	36	4.93	11	860	5	1.14	2.5	5	1045	10	0.25	5	5	53	20	29
LXB20-002	NQ Core	B287344	259	260	1.00		B287344	0.237	0.25	7.17	2.5	440	1.7	1	1.83	0.25	5	12	2	1.59	20	0.74	20	0.49	354	167	5.13	5	770	5	1.14	2.5	3	906	10	0.15	5	5	32	30	15
LXB20-002	NQ Core	B287345	260	260.98	0.98		B287345	0.108	0.25	7.42	2.5	540	1.7	1	2.07	0.25	5	11	1	1.69	20	0.88	30	0.57	420	1	5.19	6	890	5	1.23	2.5	3	1005	10	0.16	5	5	38	30	16
LXB20-002	NQ Core	B287346	260.98	262.2	1.22		B287346	1.01	0.6	6.59	2.5	460	1.4	1	5.43	0.25	22	23	45	7.51	20	2.07	10	1.37	1625	37	2.99	31	650	8	3.71	2.5	15	626	10	0.36	5	5	120	50	66
LXB20-002	NQ Core	B287347	262.2	263.12	0.92		B287347	0.161	0.25	6.33	2.5	140	1.2	1	3.23	0.25	8	13	18	2.99	20	0.66	20	0.56	793	33	4.57	7	670	3	1.94	2.5	4	508	10	0.13	5	5	45	80	20
LXB20-002	NQ Core	B287348	263.12	264.48	1.36		B287348	0.193	0.25	7.6	2.5	400	1.4	1	4.81	0.25	19	30	26	5.02	20	2.01	10	1.31	1165	21	3.7	39	860	4	1.91	2.5	18	688	10	0.46	5	5	132	40	60
LXB20-002	NQ Core	B287349	264.48	265.14	0.66		B287349	0.393	0.25	7.63	2.5	310	1.4	2	3.95	0.25	22	33	10	4.04	20	1.09	10	0.87	805	57	4.72	42	1000	4	2.74	2.5	16	648	10	0.38	5	5	95	50	36
LXB20-002	Blank	B287350					B287350	0.0025	0.25	0.06	2.5	20	0.25	1	35	0.25	0.5	2	0.5	0.11	5	0.01	5	1.77	111	0.5	0.03	0.5	80	1	0.01	2.5	0.5	85	10	0.005	5	5	1	5	4
LXB20-002	NQ Core	B287351	265.14	266.14	1.00		B287351	0.607	0.25	7.44	2.5	380	1.2	4	5.46	0.5	31	133	168	6.22	20	1.99	10	2.49	1755	94	3.33	82	990	8	1.58	2.5	22	480	10	0.57	5	5	166	40	119
LXB20-002	NQ Core	B287352	266.14	267.14	1.00		B287352	0.413	0.25	7.61	2.5	310	1.4	6	5.72	0.25	39	232	55	6.82	20	1.83	10	1.88	1610	201	3.56	115	610	4	1.44	2.5	27	1090	10	0.68	10	5	196	80	115
LXB20-002	NQ Core	B287353	267.14	268	0.86		B287353	0.118	0.25	7.52	2.5	390	0.7	2	6.53	0.5	41	266	110	7.81	20	2.11	10	2.25	2210	7	1.36	154	610	6	0.4	2.5	27	385	10	0.7	5	5	179	50	136
LXB20-002	NQ Core	B287354	268	269	1.00		B287354	0.117	0.25	7.74	2.5	270	0.9	1	5.56	0.25	39	112	91	8.44	20	1.56	10	1.82	2240	2	2.18	46	800	6	0.81	2.5	23	350	10	1.08	5	5	205	50	129
LXB20-002	NQ Core	B287355	269	270	1.00	**End of sampling**	B287355	0.0025	0.25	8.21	2.5	190	0.7	2	6.22	0.7	47	125	82	8.79	20	1.07	5	1.76	2320	4	1.6	72	750	6	0.35	2.5	24	422	10	1.19	5	5	221	10	139

Surveys

Hole #	Date Measured	Shift	Depth (m)	Azimuth	Corrected Azimuth	Dip	Magnetic Field	Dev
LXB20-002	10-12-2020	N	21.0	193.62	181.97	-51.21	55701	74.02
LXB20-002	11-12-2020	N	72.0	194.36	182.71	-51.92	55360	73.25
LXB20-002	11-12-2020	D	123.0	193.52	181.87	-51.85	55343	73.63
LXB20-002	12-12-2020	N	174.0	194.46	182.81	-51.64	55252	73.84
LXB20-002	13-12-2020	D	225.0	195.97	184.32	-51.37	55256	73.91
LXB20-002	14-12-2020	D	276.0	193.77	182.12	-51.09	55532	73.45
LXB20-002	15-12-2020	D	324.0	195.55	183.90	-50.88	55252	73.82

Lith_1	Description	Lith_2	Description
FEI	Felsic Intrusive Rocks	FDK	Felsic Intrusive Dyke
FEI	Felsic Intrusive Rocks	GRN	Granite
FEI	Felsic Intrusive Rocks	TON	Tonalite
FEI	Felsic Intrusive Rocks	PEG	Pegmatite
FVL	Felsic Volcanic Rocks	FVC	Felsic Volcaniclastic Rock
FVL	Felsic Volcanic Rocks	FVF	Felsic Flow
INI	Intermediate Intrusive Rocks	IDK	Intermediate Dyke
INI	Intermediate Intrusive Rocks	GND	Granodiorite
INI	Intermediate Intrusive Rocks	SYE	Syenite
INI	Intermediate Intrusive Rocks	DIO	Diorite
IVL	Intermediate Volcanic Rocks	IVC	Intermediate Volcaniclastic Rock
IVL	Intermediate Volcanic Rocks	IVF	Intermediate Flow
MAI	Mafic Intrusive Rock	MDK	Mafic Dyke
MAI	Mafic Intrusive Rock	GAB	Gabbro
MAI	Mafic Intrusive Rock	DIA	Diabase Dyke
MAI	Mafic Intrusive Rock	LMP	Lamprophyre
MAI	Mafic Intrusive Rock	ANO	Anorthosite
MVL	Mafic Volcanic Rocks	MVC	Mafic Volcaniclastic Rock
MVL	Mafic Volcanic Rocks	MVF	Mafic Flow
UMA	Ultramafic Intrusive Rocks	UDK	Ultramafic Dyke
UMA	Ultramafic Intrusive Rocks	UMV	Ultramafic Volcanic
UMA	Ultramafic Intrusive Rocks	PRD	Peridotite
UMA	Ultramafic Intrusive Rocks	PXT	Pyroxenite
UMA	Ultramafic Intrusive Rocks	DUN	Dunite
POR	Porphyry	FSP	Feldspar Porphyry
POR	Porphyry	FQP	Feldspar>Quartz Porphyry
POR	Porphyry	QFP	Quartz>Feldspar Porphyry
POR	Porphyry	QZP	Quartz Porphyry
SDC	Sedimentary Rock - Chemical	CHT	Chert
SDC	Sedimentary Rock - Chemical	IFM	Iron Formation
SDS	Sedimentary Rock - Siliciclastic	MUD	Mudstone-dominant
SDS	Sedimentary Rock - Siliciclastic	SIL	Siltstone-dominant
SDS	Sedimentary Rock - Siliciclastic	SND	Sandstone-dominant
SDS	Sedimentary Rock - Siliciclastic	CON	Conglomerate
SDS	Sedimentary Rock - Siliciclastic	GWK	Greywacke
SDS	Sedimentary Rock - Siliciclastic	LMS	Limestone
VEI	Veins	QZV	Quartz Vein
VEI	Veins	QAV	Quartz Ankerite Vein
VEI	Veins	AKV	Ankerite Vein
VEI	Veins	CAV	Calcite Vein
VEI	Veins	QCV	Quartz Calcite Vein
NRC	No Recovered Core	NRC	No Recovered Core
OVB	Overburden	OVB	Overburden

Deformation:	Code:
Amphibolite	amp
Chlorite Carbonate Schist	cbs
Chlorite Schist	cls
Fault	flt
Gneiss	gne
Greenschist Facies	gsc
Hornfels	hfs
Meta-Pelite	mpl
Migmatite	mgm
Moderate Shear	msh
Mylonite	myl
Phyllite	phl
Protomylonite	pmy
Quartz Sericite Schist	qss
Schist	sch
Sericite Carbonate Schist	sbs
Sericite Chlorite Schist	scs
Sericite Schist	srs
Serpentinite	srp
Strong Shear	ssh
Talc Schist	tcs
Weak Shear	wsh
Foliated	fol
Damage Zone (Interlocking fract	dzn
Breccia	bx
Breccia - crackle	bxc
Fracture Set	fcs
Fold	fd
Fracture	fr
Fault	ft
Fault Gouge	ftg
Fault Breccia	fx
Fault Zone	fz
Joint set	js
Structural Breccia	sbx
Fault breccia (incohessive)	fbx
Fault gouge	fg
Protoclasite (10-50% matrix)	pcl
Cataclasite (50-90% matrix)	ccl
Ultraclasite (>90% matrix)	ucl
breccia, crackle (75-100% large c	crbx
breccia, mosaic (60-75% large cl	mobx
chaotic breccia (30-60% large cl	chbx
Mylonite	my
Shear	sh
Shear zone	shz
Vein	vn

Rock Texture:	Code:
Agglomerate	agg
Amygdaloidal	amy
Ash tuff	atu
Autobrecciated	abx
Banded	ba
Bedded	bed
Bleached	ble
Bombs	bom
breccia	bx
Chilled Margins	chm
Colloform	col
Cross-bedded	xbd
Crystal Tuff	xtu
Flow Top Breccia	ftb
Folded	fld
Foliated	fol
Graded Bedding	gbd
Intrusive	in
Lapilli tuff	ltu
Lithic Fragments	lth
Massive	mx
Needles	nl
Pegmatite	peg
Pillow Breccia	pil-bx
Pillows	plw
Porphyritic	por
Pyroclastic	pc
Spinifex	spx
Turbidite	trb
Variolitic	var
Vuggy	vgy

Rock Colour	Code:
beige/buff	buf
black	bla
bleached	ble
blue	blu
blue-grey	blg
brown	bro
cream	crm
green	grn
green - dark	gnd
green - light	gnl
green-blue	gnb
grey	gry
grey - dark	gyd
grey - light	gyl
grey-green	gyg
grey-pink	gyp
orange	ora
pink	pnk
pink-green	pkg
purple	pur
red	red
rusty	rus
white	wht
yellow	yel
smokey	smk

Grain Size:	Code:
Glassy	gls
Aphanitic/Muc	vfg
0.001-0.1 mm	fg
0.1 - 2 mm	mg
2-20 mm	cg
>20 mm	vcg

Alt:	Code:
Biotite	bt
Carbonate (Ankerite, Siderite)	cb
Chlorite	chl
Epidote	ep
Fuchsite (green mica)	fch
Hematite	hem
K-feldspar	kf
Leucoxene	leu
Sericite	ser
Silica	sil
Bleaching	ble

Alt Int:	Code:
Weak	1
Moderate	2
Strong	3

Alt Texture	Code
aphanitic	ap
banded or bands	ba
fibrous	fbs
granular	gr
infill	in
laminated	lm
mottled	ml
Overprint	op
patchy	pa
pervasive	pe
pseudomorphic	ps
replacement	rp
stratibound	stb
selvage	sv
Weathering	we
Infill Fracture Fill	iff

Mineralization:	Code:
Arsenopyrite	as
Chalcopyrite	cp
Galena	ga
Molybdenum	mo
Pyrite	py
Pyrrhotite	po
Sphalerite	sp
Stibnite	sb
Gold - visible	VG

Mineralization Other	Code
Silver	ag
Argentite (Ag2S)	ags
Azurite	az
Bornite	bo
Chalcocite	chc
Copper oxide	cox
Copper	cu
Covellite	cv
Ferrimolybdenite	fmo
Ilmenite	ilm
Marcarsite	mar
Malachite	mc
Molybdenite	mo
Molybdenite oxide	mox
Magnetite	mt
Tellurium	nte
Pentlandite	pt
Rutile	rut
Scorodite	sco
Scheelite	shl
Specularite	spe
Tenorite	ten
Titanite (Sphene)	ttn
Tetrahedrite	ttr
Gold - visible	VG
Unknown	unk

Mineralization Texture	Code:
banded or bands	ba
blebby	bl
grain - coarse grain(2-5	cg
disseminated	do
euhedral	eu
grain - fine	fg
granular	gr
infill - fracture	if
infill	in
laminated	lm
matrix	ma
grain - medium	mg
matchhead (1-4mm)	mh
massive	mx
needle	nl
network	nt
Overprint	op
patchy	pa
porphyroblastic	pbc
pinhead (<1mm)	pd
pervasive	pe
phenocrysts	ph
pinpoint (<<1mm)	pp
pseudomorphic	ps
replacement	rp
subhedral	sb
semi-massive	sm
stringer	sr
grain - very fine	vfg
halo at the vein/veinlet	vh
vein margin/at contact	vm
web	wb
wispy	ws

Structure Type:	Code
Ankerite Vein	AKV
Fold Axis	ax
Breccia	bx
Breccia - crackle	bxc
Calcite Vein	CAV
Cleavage	cv
Fold Axial Surface	fas
Fracture Set	fcs
Fold limb	fd
Fracture	fr
Fault	ft
Fault Gouge	ftg
Fault Breccia	fx
Fault Zone	fz
Bedding - graded	gb
Contact geologic	gc
Contact - lower	gcl
Contact - upper	gcu
Joint set	js
Joint	jt
Lineation	ln
Mylonite	my
Quartz Carbonate Vein	QCV
Quartz-Ankerite Vein	QAV
Quartz Vein	QZV
Rip-up clast	ruc
Bedding	S0
Foliation, schistosity	S1
Foliation, schistosity	S2
Crenulation	S3
Shear	sh
Shear zone	shz
Slip	slp
Slump	smp
Stringer	sr
Slickensides	ss
Stockwork	sw
Tops down hole	tpD
Tops up hole	tpU
Vein	vei
Bull-White Quartz Vein	WQV
Alteration Band	ab

Vein	Code:
calcite	CAV
carbonate	CBV
colloform	COL
epidote	EPV
quartz	QZV
quartz-carbonate	QCV
quartz-ankerite	QAV

Vein Mineral	Code:
Actinolite	act
Albite	ab
Alunite	alu
Amphibole	amp
Andalusite	and
Anhydrite	anh
Ankerite	ank
Anorthite	anr
Anthophyllite	an
Apatite	ap
Argentite (Ag2S)	ags
Arsenopyrite	as
Azurite	az
Barite	bar
Biotite	bio
Bornite	bo
Calcite	ca
Carbonate (Ankerite, Siderite)	cb
Chalcocite	chc
Chalcopyrite	cpy
Chlorite	chl
Cinnabar	cin
Clay	cy
Clay/Argillic	arg
Clinopyroxene	cpx
Copper	cu
Copper oxide	cox
Corderite	co
Covellite	cv
Dickite	dck
Diopside	dio
Dolomite	dol
Epidote	ep
Feldspar	fx
Felsics	fel
Fluorite	flu
Fuchsite (green mica)	fu
Galena	gal
Garnet	gt
Goethite	go
Gold - visible	VG
Graphite	gph
Grunerite	gr
Gypsum	gy
Hematite	hem
Hornblende	hb
Illite	il
Ilmenite	ilm
Iron oxide	feo
Jarosite	ir
Jasper	jp
Kaolinite	ka
K-spar	kf
Leucoxene	leu
Limonite	li
Magnesite	mgs
Magnetite	mt
Malachite	mc
Manganese Oxide	mno
Marcarsite	mar
Microcline	mcr
Molybdenite	mo
Molybdenite oxide	mox
Muscovite	mv
Opal	op
Pentlandite	pt
Plagioclase	pf
Pyrite	py
Pyrite oxide	pyx
Pyrophyllite	pp
Pyroxene	px
Pyrrhotite	po
Quartz	qz
Realgar	rea
Rhodocrosite	rhc
Rhodonite	rhd
Rutile	rut
Scheelite	shl
Scorodite	sco
Sericite	ser
Serpentine	spt
Siderite	sid
Silica	sil
Sillimanite	sm
Silver	ag
Smectite	sme
Specularite	spe
Sphalerite	sph
Spinel	spl
Staurolite	st
Stibnite	sb
Sulphide Oxide (rust, gossan)	sux
Talc	tc
Tellurium	nte
Tenorite	ten
Tetrahedrite	ttr
Titanite (Sphene)	ttn
Topaz	tz
Tourmaline	to
Tremolite	trm
Unknown	unk
Zoisite	zoi

Vein Texture	Code
banded or bands	ba
boudinaged	bo
breccia	bx
coliform	col
convoluted	cv
Crack-Seal	cs
cross-cutting	xc
discontinuous	dc
extensional veins	xtv
fibrous	fbs
fold - ptygmatic	pty
folded	fld
graphitic	gh
halo at the vein/veinlet selvages	vh
infill	if
infill - fracture	iff
laminated	lam
Mottled	mo
open-space-fill	osf
Overprint	op
pinch & swell	pas
replacement	rep
rootless	rot
Salt and Pepper	sp
selvage thicker than vein thickness	sl
sheeted veins	sht
sigmoidal	sig
sinuous	sn
Smoky	smk
stockwork	sw
stratiform	sf
stringer	str
stylolite	sty
tension cracks	tc
vein set	vs
vuggy	vy
web	wb
wispy	ws
massive	mx

UVR	Ultramafic Metavolcanics	1
MVR	Mafic Metavolcanics	2
IVR	Intermediate Metavolcanics	3
FVR	Felsic Metavolcanics	4
CLA	Clastic Sediments	5
CHE	Chemical Metasediments	6
SCH	Schist	7
UIR	Ultramafic Meta-intrusives	8
MIR	Mafic Meta-intrusives	9
FIR	Felsic to Intermediate Meta-intrusives	10
TIM	Timiskaming-Type Metasedimentary Rocks	11
POR	Porphyry Intrusives	12
LSZ	Late Structural Zones	13
DIA	Diabase Dykes	14
QUA	Overburden	15

GV Code	Code	LONG DESCRIPTION	SHORT DESCRIPTION
UVR	1	Ultramafic Volcanic - Undifferentiated	Ultramafic Volcanic - Undifferentiated
	1a	Massive flow	Massive flow
	1b	Polysutured flow	Polysutured flow
	1c	Spinifex Textured Flow	Spinifex Textured Flow
	1d	Green Carbonate Altered Flow	Green Carbonate Altered Flow
	1e	Grey-Brown Carbonate Altered Flow	Grey-Brown Carbonate Altered Flow
MVR	2	Mafic Volcanic - Undifferentiated	Mafic Volcanic - Undifferentiated
	2a	Massive flow	Massive flow
	2b	Pillowed flow	Pillowed flow
	2c	Variolitic flow	Variolitic flow
	2d	Spherulitic flow	Spherulitic flow
	2e	Porphyritic Flow	Porphyritic flow
	2f	Amygdaloidal flow	Amygdaloidal flow
	2g	Flow top breccias	Breccia
	2h	Interflow sediments	Interflow sediments
	2i	Tuff	Tuff
	2j	Crystal Tuff	Crystal Tuff
	2k	Lithic Tuff	Lithic Tuff
	2l	Crystal - Lithic Tuff	Crystal - Lithic Tuff
	2m	Lapilli Tuff	Lapilli Tuff
	2n	Tuff breccia	Tuff breccia
	2o	Agglomerate	Agglomerate
IVR	3	Intermediate Volcanic - Undifferentiated	Intermediate Volcanic - Undifferentiated
	3a	Massive flow	Massive flow
	3b	Pillowed flow	Pillowed flow
	3c	Variolitic flow	Variolitic flow
	3d	Spherulitic flow	Spherulitic flow
	3e	Porphyritic Flow	Porphyritic flow
	3f	Amygdaloidal flow	Amygdaloidal flow
	3g	Flow top breccias	Breccia
	3h	Interflow sediments	Interflow sediments
	3i	Tuff	Tuff
	3j	Crystal Tuff	Crystal Tuff
	3k	Lithic Tuff	Lithic Tuff
	3l	Crystal - Lithic Tuff	Crystal - Lithic Tuff
	3m	Lapilli Tuff	Lapilli Tuff
	3n	Tuff breccia	Tuff breccia
	3o	Agglomerate	Agglomerate
FVR	4	Felsic Volcanic - Undifferentiated	Felsic Volcanic - Undifferentiated
	4a	Massive flow	Massive flow
	4b	Flow banded flow	Flow banded flow
	4c	Variolitic flow	Variolitic flow
	4d	Spherulitic flow	Spherulitic flow
	4e	Porphyritic Flow	Porphyritic flow
	4f	Amygdaloidal flow	Amygdaloidal flow
	4g	Flow top breccias	Breccia
	4h	Interflow sediments	Interflow sediments
	4i	Tuff	Tuff
	4j	Crystal Tuff	Crystal Tuff
	4k	Lithic Tuff	Lithic Tuff
	4l	Crystal - Lithic Tuff	Crystal - Lithic Tuff
	4m	Lapilli Tuff	Lapilli Tuff
	4n	Tuff breccia	Tuff breccia
	4o	Agglomerate	Agglomerate
CLA	5	Clastic Sediments - Undifferentiated	Clastic Sediment - Undifferentiated
	5a	Mudstone	Mudstone
	5b	Siltstone	Siltstone
	5c	Argillite	Argillite
	5d	Wacke	Wacke
	5e	Arenite	Arenite
	5f	Conglomerate	Conglomerate
CHE	6	Chemical Sediments - Undifferentiated	Chemical Sediments - Undifferentiated
	6a	Iron Formation unsubdivided	Iron Formation
	6b	Oxide Facies Iron Formation	Oxide IF
	6c	Carbonate Facies Iron Formation	Carbonate IF
	6d	Sulfide Facies Iron Formation	Sulfide IF
	6e	Silicate Facies Iron Formation	Silicate IF
	6f	Chert	Chert
	6g	Graphitic sediments	Marker Horizon
SCH	7	Schsit - Undifferentiated	Schsit - Undifferentiated
	7a	Sericite schist	Sericite schist
	7b	Quartz-sericite Schist	Quartz-sericite Schist
	7c	Carbonate-sericite Schist	Carbonate-sericite Schist
	7d	Chlorite Schist	Chlorite Schist
	7e	Quartz-chlorite Schist	Quartz-chlorite Schist
	7f	Carbonate-chlorite Schist	Carbonate-chlorite Schist
	7g	Talc Schist	Talc Schist
	7h	Talc-chlorite Schist	Talc-chlorite Schist
	7i	Carbonate-talc Schist	Carbonate-talc Schist
UIR	8	Ultramafic Intrusive - Undifferentiated	Ultramafic Intrusive - Undifferentiated
	8a	Hornblendite	Hornblendite
	8b	Pyroxenite	Pyroxenite
	8c	Wehrlite	Wehrlite
	8d	Websterite	Websterite
	8e	Dunite	Dunite
	8f	Lherzolite	Lherzolite
	8g	Peridotite	Peridotite
	8h	Serpentinite	Serpentinite
MIR	9	Mafic Intrusive - Undifferentiated	Mafic Intrusive - Undifferentiated
	9a	Gabbro	Gabbro
	9b	Diorite	Diorite
	9c	Granophyre	Granophyre
	9d	Norite	Norite
	9e	Anorthosite	Anorthosite
FIR	10	Felsic Intrusive - Undifferentiated	Felsic Intrusive - Undifferentiated
	10a	Granite	Granite
	10b	Granodiorite	Granodiorite
	10c	Tonalite	Tonalite
	10d	Trondhjemite	Trondhjemite
	10e	Syenite	Syenite
	10f	Quartz syenite	Quartz syenite
	10g	Monzonite	Monzonite
	10h	Quartz monzonite	Quartz monzonite
	10i	Quartz diorite	Quartz diorite
TIM	11	Timiskaming Rock - Undifferentiated	Timiskaming Rock - Undifferentiated
	11a	Mudstone	Mudstone
	11b	Siltstone	Siltstone
	11c	Argillite	Argillite
	11d	Wacke	Wacke
	11e	Arenite	Arenite
	11f	Conglomerate	Conglomerate
	11g	Iron Formation	Iron Formation
	11h	Alkalic Volcanics	Alkalic Volcanics
	11i	Alkalic Intrusives	Alkalic Intrusives
	11j	Lamprophyre	Lamprophyre
POR	12	Porphyry - Undifferentiated	Porphyry - Undifferentiated
	12a	Quartz - Feldspar porphyry	Quartz - Feldspar porphyry
	12b	Feldspar porphyry	Feldspar porphyry
	12c	Quartz porphyry	Quartz porphyry
	12d	Quartz porphyry	Quartz porphyry
	12e	Hornblende - Feldspar porphyry	Hornblende - Feldspar porphyry
	12f	Hornblende porphyry	Hornblende porphyry
	12g	Albitite	Albitite
	12h	Lamprophyre	Lamprophyre
LSZ	13	Late Structure - Undifferentiated	Late Structure - Undifferentiated
	13a	Shear Zone	Shear Zone
	13b	Breccia Zone	Breccia Zone
	13c	Fault Zone (gouge)	Fault Zone (gouge)
DIA	14	Diabase Dyke - Undifferentiated	Diabase Dyke - Undifferentiated
	14a	Matachewan dyke	Matachewan dyke
	14b	Abitibi dyke	Abitibi dyke
	14c	Sudbury	Sudbury
	14d	Nipissing dyke	Nipissing dyke
QUA	15	Overburden	Overburden
VEIN	16	Vein - Undiferntiated	Vein - Undiferntiated
	16a	Quartz Vein	Quartz Vein
	16b	Quartz-Carbonate Vein	Quartz-Carbonate Vein

Mark Quality	Interpretation
0	No mark or spurios mark, i.e. loose core, equipment problems, etc.
1	Poor – Angular uncertainty > 10°
2	Acceptable – Angular uncertainty ± 10°
3	Good – Angular uncertainty ± 5°
4	Excellent – Angular uncertainty < 2°

Line Quality	Interpretation
0	No line or clearly problematic line
1	Run locks with one or more runs with a lock angle >20°
2	Run does not lock with another run, so it is not independently validated.
3	Run locks with another run; lock angle between 10° – 20°
4	Run locks with another run, lock angle between 2° – 10°
5	Perfect lock with three or more runs.

Oreinted Line Extension	
Yes	Y
No	N

Type
NQ Core
OREAS 222 - 1.21g/t
OREAS 228b - 8.49g/t
OREAS 257b - 14.7g/t
Blank

APPENDIX E – CONTRACTORS' REPORTS

Oriented Structures from LXB20-001

Summary

A total of 28 oriented structure measurements were collected from the drill hole. Of these, 22 measurements had a line confidence of 4 (one run with a perfect lock angle). The remainder have a line confidence of 0. These were collected from short lines drawn back from a drillers mark on more competent pieces of core in an effort to collect more “oriented” data.

Measured Structures

Six types of oriented structure measurements were collected from hole, which include:

- **Alteration bands**
  Cream / beige coloured bands, locally chlorite-rich bands, found within the mafic volcanic unit (**Plate 1**). These structures likely represent altered pillow margins, and therefore may have no common orientation unless flattened into alignment within a foliation. Four measurements were collected and don’t plot in a cluster (**Figure 1a**). However, they do plot on a great circle suggesting they may be folded (?); more data is needed to confirm this. The pole to the great circle (possible fold axis) has an orientation of 68° -> 343, and the mean orientation of alteration bands is 253/68°.

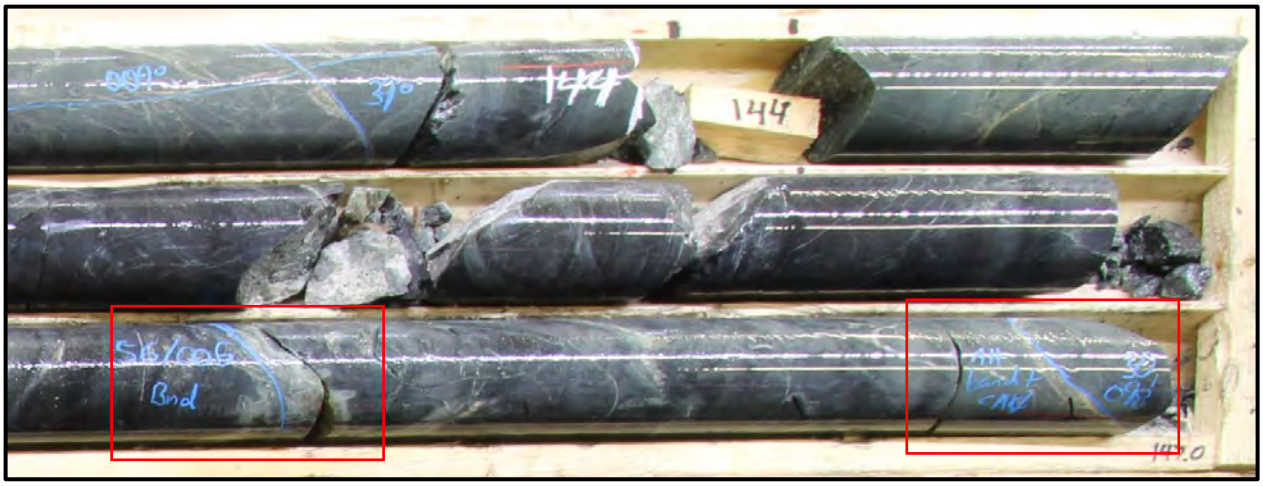

Plate 1. *Core photograph from LXB20-001 at 146-147m depth. Note the beige-coloured alteration bands on the bottom section of core; likely represent pillow margin features.*

- **Carbonate veins**
  Three carbonate vein measurements were collected, and these measurements also plotted well on a great circle (**Figure 1b**). This generation of vein may have formed in conjugate sets, which would plot on a great circle. However, more data is required to confirm this relationship. The pole to the great circle (possible intersection lineation of

conjugate carbonate vein set) has an orientation of 64° -> 115, and the mean orientation of carb veins is 065/70°.

- **Fracture sets (chlorite-filled or beige mineral-filled)**
  Eight fracture set measurements were collected, and these do not plot in a well-defined cluster (**Plate 2**, **Figure 1c**). The majority of measurements plot loosely around a great circle, providing possible evidence for conjugate fracture sets, with a pole to the great circle orientation of 57° -> 002 (similar orientation as the pole to great circle of the alt bands; possible structural symmetry?). The mean orientation of fractures is 272/38°.

***Plate 2**. Core photograph from LXB20-001 at 150-151m depth. Fracture sets (filled with beige mineral ± chlorite) outlined by red rectangles.*

- **Quartz veins**
  Two quartz vein measurements were collected, with a mean vector orientation of 302/43° (**Figure 1d**). These appear to have a different orientation compared to the carb veins, and may have formed in a different deformation event.

- **Foliation (S2)**
  One foliation measurement (very weak cleavage) was collected with a line quality of 4 (194/87°; **Figure 1d**). The remaining four measurements were collected from short segments of oriented core with a line quality of 0, however these measurements were taken from high-strain mafic volcanics with a strong foliation / banding (**Plate 3**). The mean S2 orientation from these measurements is 077/76°, which appears to be consistent with the inferred trend of the Case Beradi DZ, but dips steeply to the south instead of north.

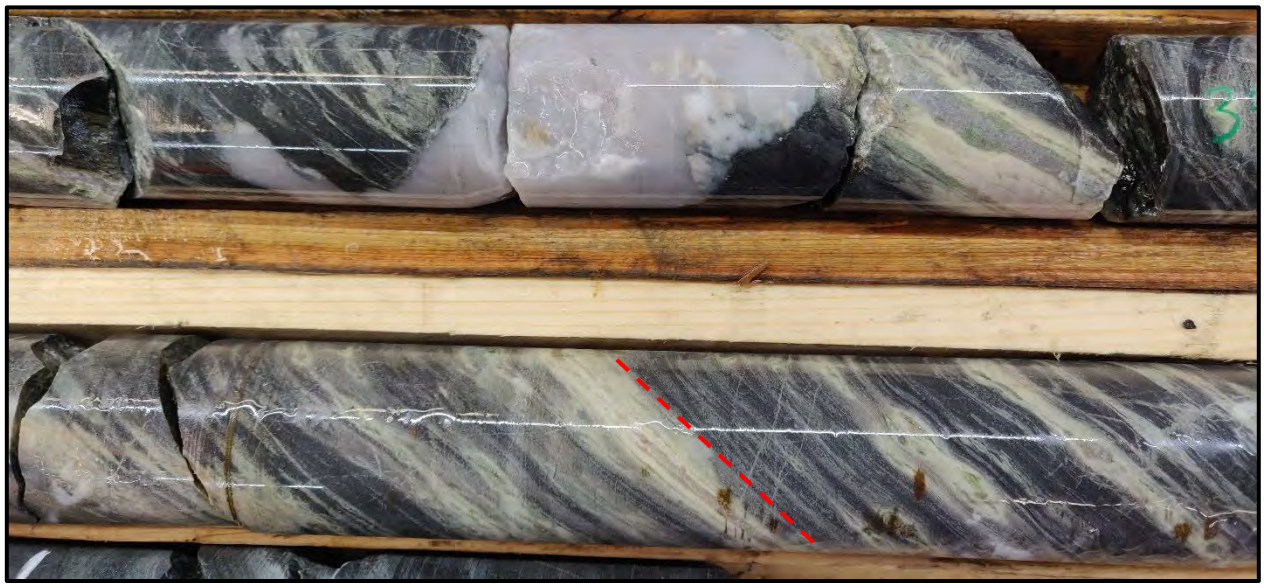

***Plate 3**. Core photograph from LXB20-001 at 90-91m depth. Dashed red line outlines the strong compositional banding that defines S2.*

- **Geological contacts**
  Two contact measurements were collected with a mean orientation of 261/82°, which has a similar trend as the mean S2, but dips steeply to the north (**Figure 2b**).

Evidence for folds

A core-scale, open-close asymmetric fold that plunges shallowly to the NE was documented in the one run of core with a line quality of 4 (147-150 m; **Figure 3**). The physical measurement of the hinge and limbs using the "snowbank method" corresponded well with the calculated hinge (pole to best-fit great circle), and alpha and beta measurements of limbs.

Possible Kinematic Indicators

Some possible kinematic indictors were documented in the high-strain mafic volcanics, and include rotated clasts and pressure shadows around porphyroclasts (**Plate 4**). When making KI interpretations, one would have to assume that you're looking parallel to parallel to the motion plane (parallel to any stretching lineations if present). Unfortunately none of the core was oriented in this section, so bottom of core is unknown. As a result, an apparent reverse or normal sense can be inferred based on where the 'bottom' of core is inferred. Hopefully oriented core can be retrieved from high-strain zones in future, allowing for KI data to be collected.

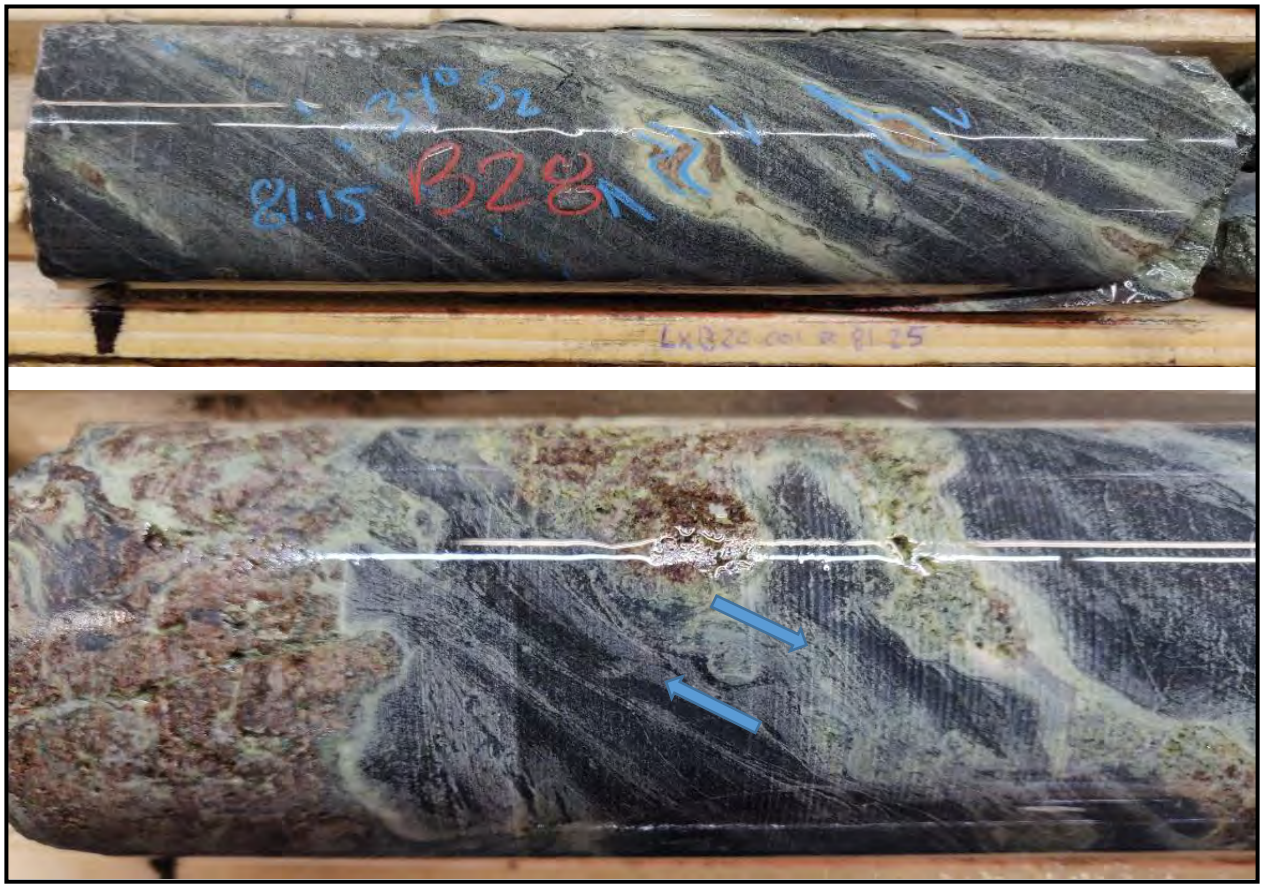

Plate 4. Core photograph from LXB20-001 at 74-77 m depth. Possible kinematic indictors were documented in the high-strain mafic volcanics, and include rotated clasts and pressure shadows around porphyroclasts.

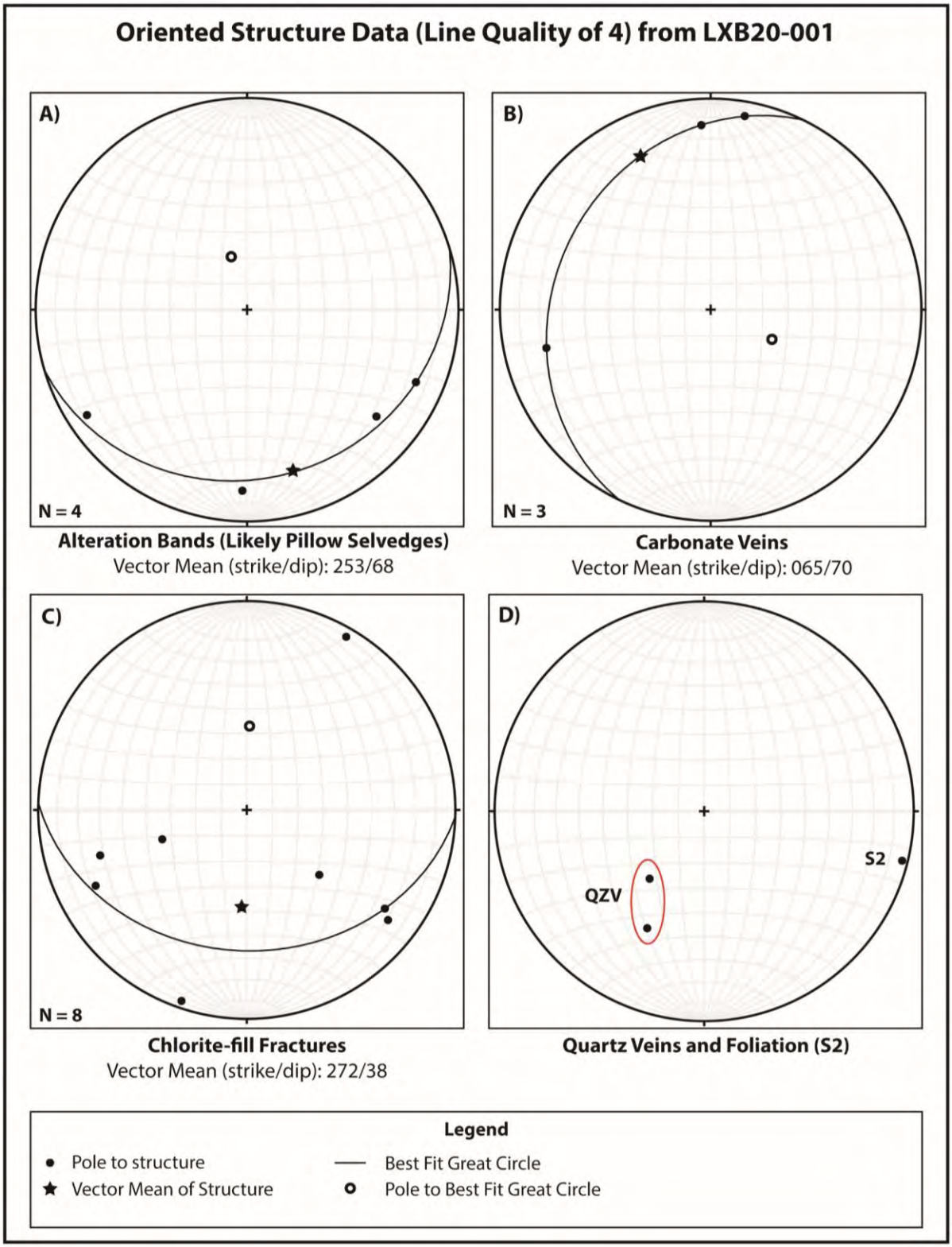

***Figure 1**. Stereonet analysis of oriented structure measurements from LXB20-001, with a line confidence of 4. A) alteration band measurements, B) carbonate vein measurements, C) fractures, often chlorite-filled or filled with a beige mineral, and D) quartz veins and S2 measurements.*

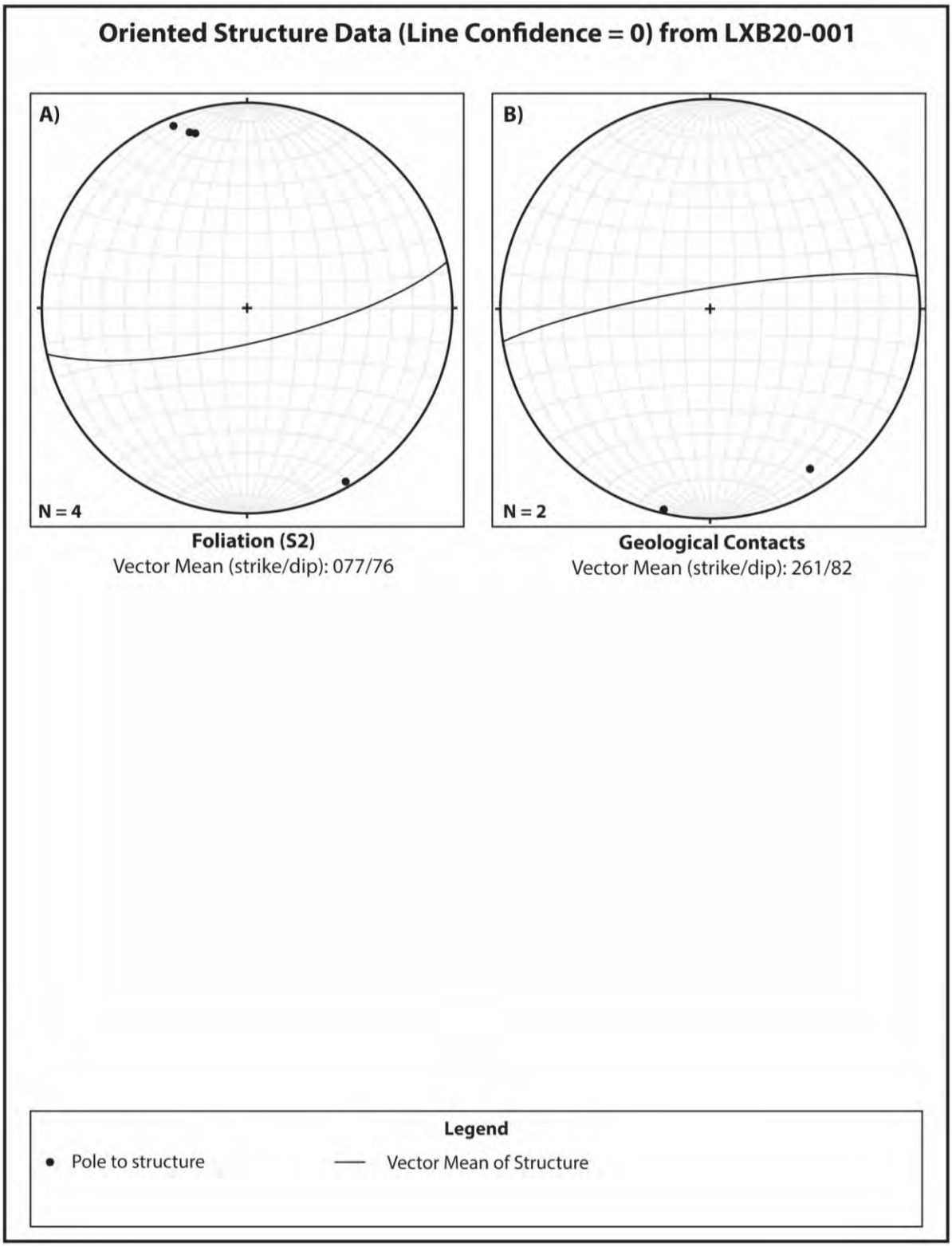

***Figure 2**. Stereonet analysis of oriented structure measurements from LXB20-001, with a line confidence of 0. A) foliation (S2) measurements, B) geological contacts measurements.*

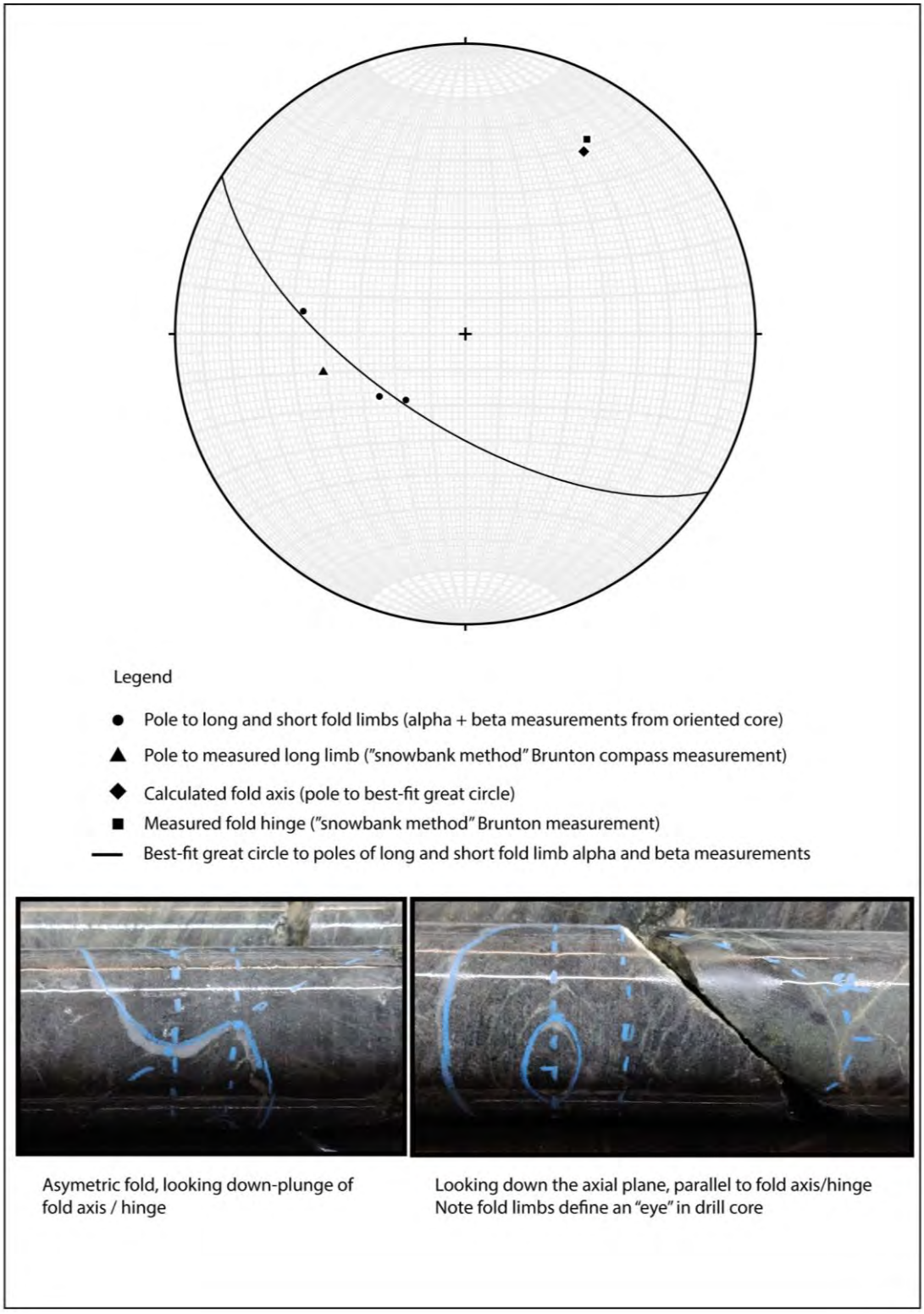

***Figure 3**. Stereonet analysis of oriented structure measurements from LXB20-001. Core-scale, open-close asymmetric fold that plunges shallowly to the NE. The physical measurement of the hinge and limbs using the "snowbank method" corresponded well with the alpha and beta measurements of limbs, and the calculated hinge (pole to best-fit great circle).*

LiDAR Services International Inc.

LaSalle Exploration Corp.

Blakelock Site A

LiDAR Survey Report

May 2021

Table of Contents

1. Survey Summary

LiDAR Services International Inc. (LSI) performed an aerial LiDAR & Imagery survey for LaSalle Exploration Corp. in May 2021 of the Blakelock A mines site totaling approximately 70 square kilometers in Ontario. Airborne data was collected and delivered with the following parameters:

- MATRIX LiDAR system installed in a Cessna 182 airplane owned and operated by Terrasaurus Ltd. of Kelowna, British Columbia
- Airborne data was collected in two flights from May 11 – 12, 2021 based out of the Cochrane, ON Airport
- LiDAR data and imagery were collected at an average flying height of 850 m above ground level and a forward speed of 215 km/h
- Riegl LMS Q780 laser pulsed at a rate of 400 kHz, resulting in a computed average laser ground point spacing equal to 0.45 m and an average point density of 5.0 points/m^2
- Horizontal Datum: NAD83(CSRS) in meters
- Vertical Datum: CGVD2013 orthometric heights in meters
- Map Projection: UTM Zone 17N (Central Meridian = -81 degrees longitude)
- Deliverables included:
    - LiDAR point clouds classified to Ground, DTM Key Point, Low Vegetation (0 – 1 m) and High Vegetation (>1 m) in LAS v1.2 format.
    - Bare Earth and Full Feature gridded points at 1 m spacing in ASCII XYZ format.
    - Greyscale hillshades of Bare Earth and Full Feature surfaces at 1 m pixel resolution in GeoTIFF format.
    - Ortho-mosaicked colour digital imagery with 10 cm pixel resolution in compressed ECW and GeoTIFF formats
    - Index map in DWG format

2. MATRIX LiDAR System

2.1 MATRIX Installation

The MATRIX LiDAR system was installed in a Cessna 182 airplane, shown in Figure 1, owned and operated by Terrasaurus Ltd. of Kelowna, British Columbia.

Figure 1: Cessna 182 with MATRIX LiDAR System

The Riegl LMS Q780 laser scanner, inertial measurement unit, digital camera, computers and data storage devices were mounted to the floor in the rear of the aircraft, as shown in Figure 2. The GPS antenna was mounted on top of the fuselage and the operator controlled the MATRIX system with a laptop from the front passenger seat. Transport Canada has approved the installation of the MATRIX LiDAR system into this survey aircraft.

Key sensors utilized in the MATRIX installation for the LiDAR survey include:

- Riegl LMS Q780 laser scanner and data recorder
- NovAtel SPAN-SE dual frequency GPS receiver
- IXSEA AIRINS 200 Hz Inertial Measurement Unit (IMU)
- Canon EOS-5DS 50 megapixel digital frame downward camera

Figure 2: Q780 Laser, IMU and Computers Mounted in Cessna 182

3. Survey Control

To ensure accurate absolute and relative positioning of the LiDAR data during data collection, kinematic differential GPS (DGPS) surveying techniques were used. DGPS involves having a static GPS receiver collecting data at a known ground control point in the vicinity of the project area simultaneously with the collection of the kinematic GPS from the aircraft. After the mission, during the post processing, the static and kinematic sets of raw GPS data were combined together and processed, resulting in an accurate positioning solution of the aircraft.

In support of the LiDAR survey, LSI established a control point at the Cochrane Airport (*CYCN*). Coordinates for this point were determined by referencing two nearby continuously operating CAN-NET stations (*TIM3* and *CIRO*) and fixing their published coordinates.

Figure 3: CYCN Control Point

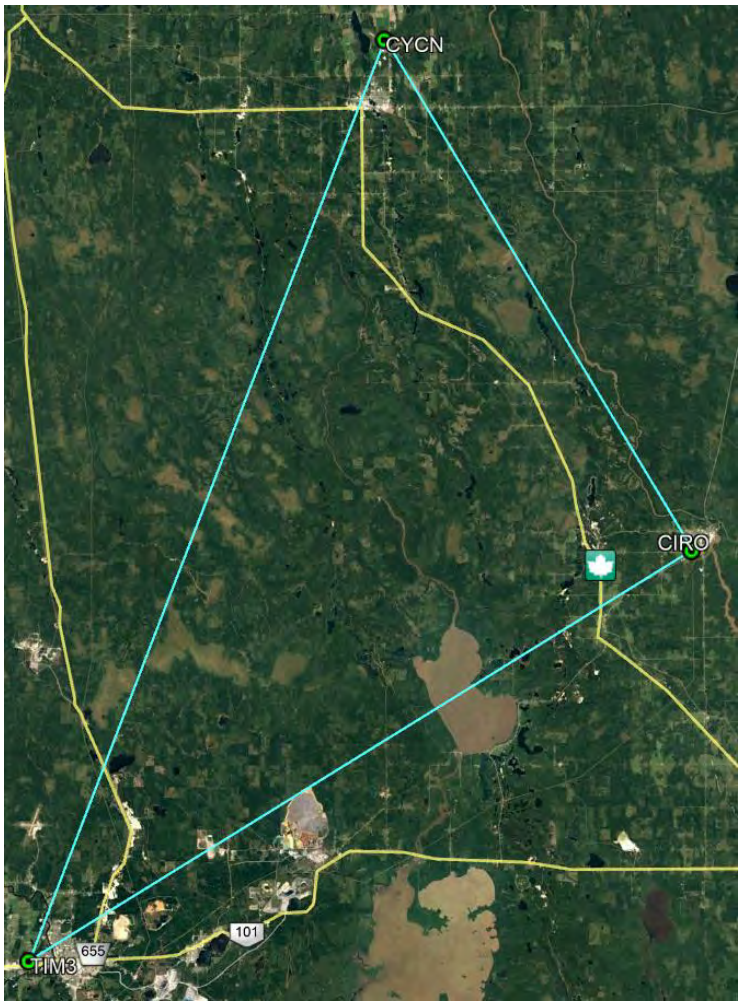

Figure 4: Control Point Network

The coordinates and elevations shown in Table 1 were used to position the LiDAR and imagery data. All control points and data deliverables are in the NAD83(CSRS), UTM Zone 17 projection with orthometric heights in the CGVD2013 datum.

***Table 1**: LiDAR Control Coordinates (NAD83(CSRS), UTM Zone 17N, CGVD2013)*

Control Point	Latitude	Longitude	Easting (m)	Northing (m)	Orthometric Height (m)
CYCN	49 06 20.72461	-81 00 23.34812	499526.633	5439212.396	261.454
TIM3	48 28 37.70154	-81 22 40.71966	472065.561	5369403.475	289.560
CIRO	48 45 20.87937	-80 41 29.64425	522669.574	5400355.663	284.482

4. Data Collection

4.1 Airborne LiDAR Survey

The LiDAR and imagery data of the Blakelock A project area was collected in two flight missions on May 11 and 12, 2021, based out of the Cochrane Airport. The project consisted of pre-planned flight lines flown at an average height of 850 m above ground level and a forward speed of 215 km/h. The Riegl LMS Q780 laser pulsed at a rate of 400 kHz and the laser scanned at a rate of 134 Hz, resulting in an average point spacing of 0.45 m or 5.0 points per square meter. The Canon EOS-5DS digital camera took a photo every 3.9 seconds resulting in 60% forward overlap between consecutive photos.

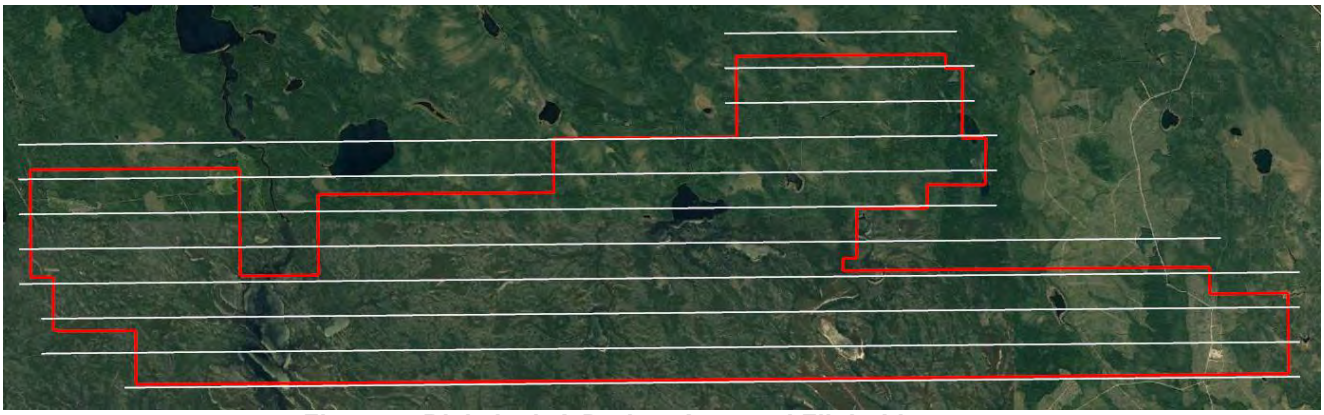

Figure 5: Blakelock A Project Area and Flight Lines

4.2 Data Quality Control and Validation

LiDAR calibration passes were flown over the Cochrane Airport at the start of each survey flight. The calibration passes allow for the determination and verification of the roll, pitch and heading misalignment angles between the IMU measurement axis and the laser sensor. The calibration passes consisted of multiple flight lines flown at orthogonal and parallel headings at the project flying height and speed. During post processing, the flight line relative accuracies were determined and confirmed the high quality of the IMU-laser boresight alignment and the trajectory solutions.

Ground check points were also collected at the Cochrane Airport to help verify the absolute accuracy of the LiDAR data. The check points were collected on foot with a pole-mounted GPS antenna as shown in Figure 6, and post-processed in a DGPS solution referenced to the same control point as the project sites.

Figure 6: Ground Check Point Collection

The ground points were classified from each calibration pass to create triangulated surface models which were compared to the independently observed ground check points. The average resulting residuals and statistics from the calibration passes are tabulated as follows:

Flight	Flightline	Avg dZ (m)	Min dZ (m)	Max dZ (m)	Avg Mag (m)	RMS (m)	Std Dev (m)
JD131Flt1	1	-0.022	-0.052	0.004	0.022	0.026	0.014
	2	-0.010	-0.028	0.008	0.011	0.013	0.009
	3	-0.027	-0.048	-0.010	0.027	0.029	0.011
	4	-0.018	-0.040	-0.001	0.018	0.020	0.008
JD132Flt1	1	0.038	-0.027	0.079	0.040	0.044	0.022
	2	-0.004	-0.026	0.021	0.009	0.012	0.011
	3	-0.002	-0.038	0.022	0.010	0.013	0.013
	4	-0.005	-0.025	0.024	0.011	0.013	0.012
JD132Flt2	1	0.010	-0.010	0.026	0.012	0.014	0.010
	2	-0.037	-0.060	-0.016	0.037	0.038	0.010
	3	-0.019	-0.048	0.000	0.019	0.022	0.011
	4	-0.011	-0.029	0.007	0.012	0.014	0.009
	Total	**-0.009**	**-0.060**	**0.079**	**0.019**	**0.024**	**0.022**

The tested fundamental vertical accuracy of the LiDAR data for the project was better than 10 cm at a 95% confidence interval.

5. Data Processing and Deliverables

The LiDAR data and imagery for the Blakelock A project area were delivered to LaSalle Exploration Corp. with the following specifications:

- Horizontal Datum: NAD83(CSRS) in meters
- Vertical Datum: CGVD2013 orthometric heights in meters
- Mapping Projection: UTM Zone 17N (central meridian -81 degrees longitude)
- LiDAR LAS v1.2 point clouds classified to Ground, DTM Key Point, Low Vegetation (up to 1 m above ground) and High Vegetation (greater than 1 m above ground)
- Bare Earth and Full Feature grid points at 1 meter spacing in ASCII XYZ format
- Greyscale hillshades of Bare Earth and Full Feature surfaces at 1 m pixel resolution in GeoTIFF format
- Ortho-mosaic color digital imagery with 10 cm pixel resolution in compressed ECW and GeoTIFF formats
- Index map in DWG format

5.1 LiDAR Point Clouds

5.1.1 LiDAR Tiles

Unclassified point clouds were generated for each individual flight line from the raw laser data, the GPS-IMU post-processed solution and the measured system calibration parameters. The point clouds were then imported into 1km x 1km tiles covering the project area using Terrasolid software. The number for each tile was derived from the southwest corner coordinate of the tile, i.e. Tile 5785479 has a southwest corner coordinate of E: 578000m, N: 5479000m.

The LAS v1.2 point clouds were delivered with the following feature codes:

2: Ground

3: Low Vegetation (0 to 1 meter above ground)

5: High Vegetation (greater than 1 meter above ground)

8: DTM Key Point

5.1.2 Ground Points

An initial automatic ground classification was applied to the tiles. The automatic ground macro classified ground points using a sequence of steps that identifies the lowest LiDAR point in an area and then finds neighboring ground points based on user-specified iteration angles and tolerances. After the automatic ground classification, trained technicians inspected those points and either added or removed points from the *Ground* class that were incorrectly classified by the automatic ground macro. This was done using the Terrasolid suite of LiDAR editing tools in the MicroStation environment.

5.1.3 DTM Key Points

After completion of the manual ground editing, *DTM Key Points* were classified from the *Ground* point class. The automatic *DTM Key Point* classification selects key points from the *Ground* class and chooses neighboring *Ground* points using a horizontal tolerance of 10 m and a vertical tolerance of 10 cm. That is, the maximum horizontal distance between *DTM Key Points* is 10 m and the maximum vertical distance is 10 cm. The points that were not selected for the *DTM Key Points* were left in the *Ground* class.

The *DTM Key Points* are a subset of the *Ground* points taken directly from the *Ground* class. The *DTM Key Point* class typically has up to 90% less points than the original *Ground* class, depending on the terrain. ***Because the DTM Key Points are taken from the Ground class, it is important that the Ground class never be used by itself. Either the DTM Key Point class can be used alone, or the DTM Key Point and Ground classes can be used together.*** The *DTM Key Point* and *Ground* classes together will produce the maximum possible terrain detail, with the largest number of points.

5.1.3 Vegetation

The remaining non-ground points were then classified into two separate classes: *Low Vegetation* (0 m to 1 m above ground) and *High Vegetation* (greater than 1 m above ground). The vegetation classes contain all objects and structures above the ground, including buildings, transmission lines, bridges, fences, vehicles and piles of non-earth materials.

5.2 Grid Points

Bare Earth grid points were created at a 1-meter interval for each tile and delivered in ASCII XYZ format. The Bare Earth grid point elevations were derived from a Triangulated Irregular Network (TIN) surface model of the *DTM Key Point* and *Ground* classes in the LiDAR point cloud tiles.

Full Feature grid points were also created at a 1-meter interval for each tile and delivered in ASCII XYZ format. The Full Feature grid point elevations were derived from the highest point in the *High Vegetation* class within each 1-meter cell. The Bare Earth grid point elevations were applied for cells having no *High Vegetation* points.

5.3 Hillshades

Geo-referenced grayscale raster images with a 1 m pixel size were delivered in GeoTIFF format. The Bare Earth hillshade images were derived from the Bare Earth grid points and the Full Feature hillshade images were derived from the Full Feature grid points. The hillshades were created using a 315 degree sun azimuth and 45 degree sun angle.

5.4 Orthoimage Mosaics

Geo-referenced colour digital orthoimage mosaics with 10 cm pixel size were delivered in compressed ECW and GeoTIFF formats. The mosaics were divided into tiles using the same tile structure as the LiDAR tiles and trimmed to the project boundary. The compressed ECW tiles were created using a 5:1 compression ratio.

LSI greatly appreciates the opportunity to have performed the Blakelock Site A LiDAR survey, and is available for any questions or comments regarding the survey or the contents of this report.

LiDAR Services International Inc.
110, 7777 – 10 St. N.E.
Calgary, Alberta T2E 7J2

Phone: (403) 517-3130
Fax: (403) 291-5390
Website: *www.lidarservices.ca*

Data Recovery Request

Data collected and delivered by LSI will remain available on the FTP link provided for a period of one year. After this period, any request for access to the data will be subject to a fee based on the work required to complete retrieval, and any requested reprocessing. Please submit the completed form to info@lidarservices.ca.

Access is available to the hiring client only. All other requests must include a letter authorizing the release of data, or proof of transfer of ownership of the hiring client to accompany this request.

Hiring Client	LaSalle Exploration Corp.
Original PO#	N/A
LSI Reference Number	21-424
Date of Original Delivery	June 7, 2021

Contact Name: _____

Company: _____

Contact phone/email: _____

Date Required: _____

Data Requested: _____

_____

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By signing below, I acknowledge that I am an authorized signatory of the company, and understand that the above information is provided to obtain a quote on retrieval of archived information.

_____ _____

Printed Name/Title Date

_____

Signature

Precision GeoSurveys

AIRBORNE GEOPHYSICAL SURVEY REPORT

Blakelock Survey Block

Cochrane, Ontario

LaSalle Exploration Corp.

Precision GeoSurveys Inc.
www.precisiongeosurveys.com
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June 2021
Job# 21146

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1.0 Introduction

This report outlines the geophysical survey operations and data processing procedures taken during the high resolution helicopter-borne magnetic gradiometer survey flown over the Blakelock survey block for LaSalle Exploration Corp. The survey block is located in northeastern Ontario (Figure 1) and it was flown from May 11 to May 14, 2021.

Figure 1: Blakelock survey located in northeastern Ontario.

1.1 Survey Area

The Blakelock survey block is centered approximately 145 km northeast of Timmins and 85 km northeast of Cochrane, Ontario (Figure 2).

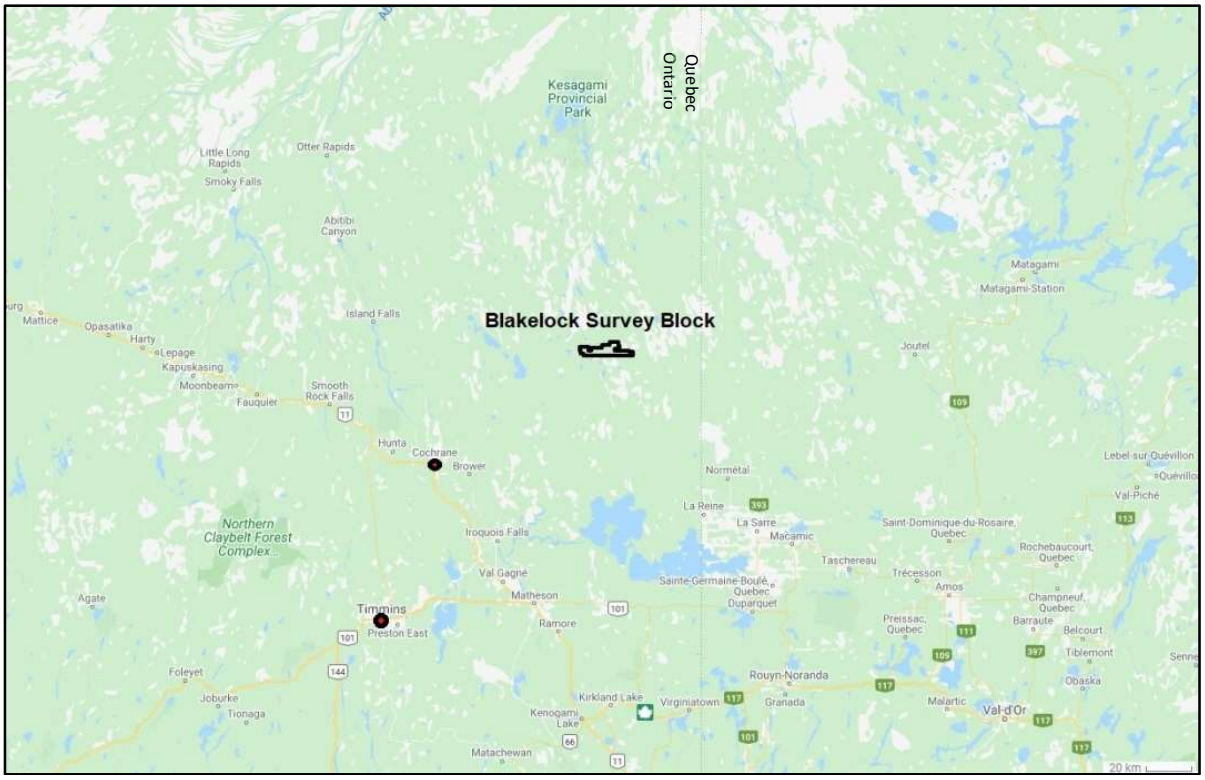

Figure 2: Blakelock survey block northeast of Timmins and Cochrane, Ontario.

Blakelock was flown at 100 m line spacing at a heading of 000°/180°; tie lines were flown at 1000 m spacing at a heading of 090°/270° (Figure 3).

Figure 3: Plan View – Blakelock survey block with actual flight lines in yellow and survey block boundary in red.

1.2 Survey Specifications

The geodetic system used for the geophysical survey was WGS 84 in UTM Zone 17N. A total of 771 line km was flown over one block with a total area of 69.8 km^2 (Table 1). An additional 1 km was flown to retain data from flight lines flown outside the survey block margins for efficiency. Polygon coordinates for the Blakelock survey block are specified in Appendix A.

Survey Block	Area (km^2)	Line Type	No. of Lines Planned	No. of Lines Completed	Line Spacing (m)	Line Orientation (UTM grid)	Total Planned Line km	Total Actual km Flown
Blakelock	69.8	Survey	218	218	100	000°/180°	698	699
		Tie	6	6	1000	090°/270°	72	72
		Total:	**224**	**224**			**770**	**771**

Table 1: Survey flight line specifications for Blakelock.

2.0 Geophysical Data

Geophysical data are collected in a variety of ways and are used for many purposes including aiding in the determination of geology, mineral deposits, oil and gas deposits, geotechnical investigations, contaminated land sites, and UXO (unexploded ordnance) detection.

For the purposes of this survey, airborne gradient magnetic data were collected to serve in geological mapping and exploration for mineral deposits.

2.1 Magnetic Data

Magnetic surveying is the most common airborne geophysical technology used for both mineral and hydrocarbon exploration. Aeromagnetic surveys measure and record the total intensity of the magnetic field at the magnetometer sensor, which is a combination of the desired geomagnetic field as well as influences from the constantly varying solar wind and the aircraft's magnetic field. By subtracting temporal and aircraft magnetic effects, the resulting aeromagnetic maps show the spatial distribution and relative abundance of magnetic minerals - most commonly the iron oxide mineral magnetite - in the upper levels of Earth's crust, which in turn are related to lithology, structure, and alteration of bedrock. Survey specifications, instrumentation, and interpretation procedures depend on the objectives of the survey. Magnetic surveys are typically performed for:

- Geological Mapping - to aid in mapping lithology, structure, and alteration.
- Depth to Basement Mapping - for exploration in sedimentary basins or mineralization associated with the basement surface.

2.1.1 Gradient Magnetic Data

In addition to high resolution total magnetic field data, horizontal and vertical magnetic gradient data were collected by using a triaxial magnetic gradient bird-type system. Direct measurement of the magnetic gradient has the following benefits:

- Enhanced definition of near-surface anomalies.
- Emphasis on short wavelength spatial components of magnetic anomalies from horizontal variations of the gradients.
- Attenuation of long wavelength spatial components associated with regional trends and large scale anomalies.
- Reduction of high frequency temporal variations in the Earth's magnetic field due to micro-pulsations.
- Immunity to diurnal fluctuations.
- Reduction of aircraft/sensor movement errors.

3.0 Aircraft and Equipment

All geophysical and subsidiary equipment were carefully installed on an aircraft by Precision GeoSurveys to collect gradient magnetic data.

3.1 Aircraft

Precision GeoSurveys flew the survey using a Bell 206 Jet Ranger helicopter, registration C-FQCK.

3.2 Geophysical Equipment

The survey aircraft (Figure 4) was equipped with a slung bird-type triaxial magnetic gradient system, data acquisition system, GPS navigation systems, pilot guidance unit (PGU), laser altimeter, barometer, and fluxgate magnetometer. In addition, two magnetic base stations were used to record temporal magnetic variations. Technical specifications for the geophysical equipment are provided in Appendix B.

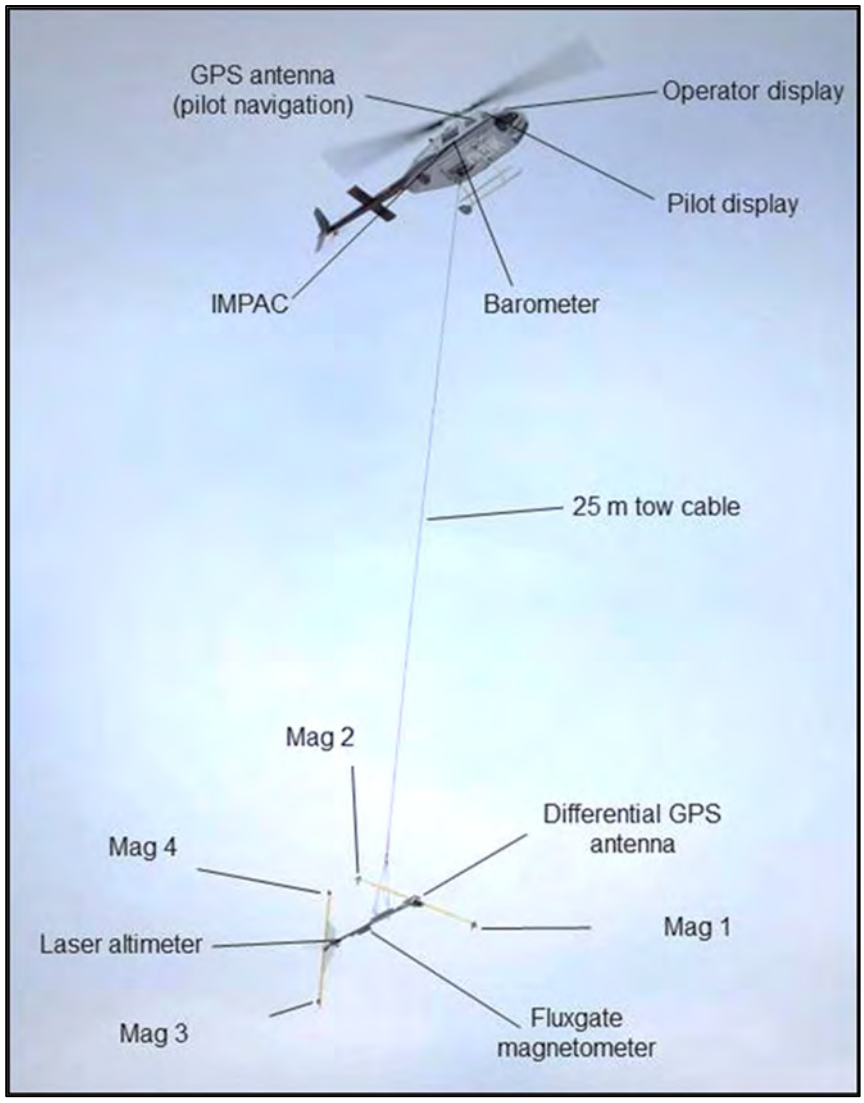

Figure 4: Survey helicopter equipped with geophysical equipment and the triaxial magnetic gradient bird-type configuration slung 25 m below the helicopter.

3.2.1 Triaxial Gradiometer

The primary geophysical technology used on this survey was a slung magnetic gradiometer, custom designed and manufactured by Precision GeoSurveys. The gradiometer bird is constructed completely from non-magnetic and non-conductive materials and provides the required sensor separation for triaxial gradient measurements in stable flight, while incorporating a laser altimeter, fluxgate magnetometer, and a GPS antenna. It is attached to the helicopter by a 25 m long tow cable that eliminates magnetic interference from the aircraft and holds the weight of the system. A shear pin is used as a safety weak link. Magnetic, laser altimeter, attitude, and GPS data are transmitted to the helicopter by wires routed along the tow cable. By design, this gradiometer separates the electronic equipment from the magnetic sensors to allow for cleaner

data collection unaffected by electronic noise and the aircraft's magnetic fields. The bird weighs approximately 80 kg and can be disassembled into multiple components for ease of transport.

In total, the gradiometer (Figure 5) contains four Scintrex CS-3 cesium vapor magnetic sensors individually measuring the total magnetic intensity at their respective positions (Table 2). The unique arrangement of the sensors allows direct measurement of the geomagnetic field in the X (cross-line) gradient axis with the two forward sensors (Mag 1 and Mag 2) and the Z (vertical) gradient axis with the two aft sensors (Mag 3 and Mag 4).

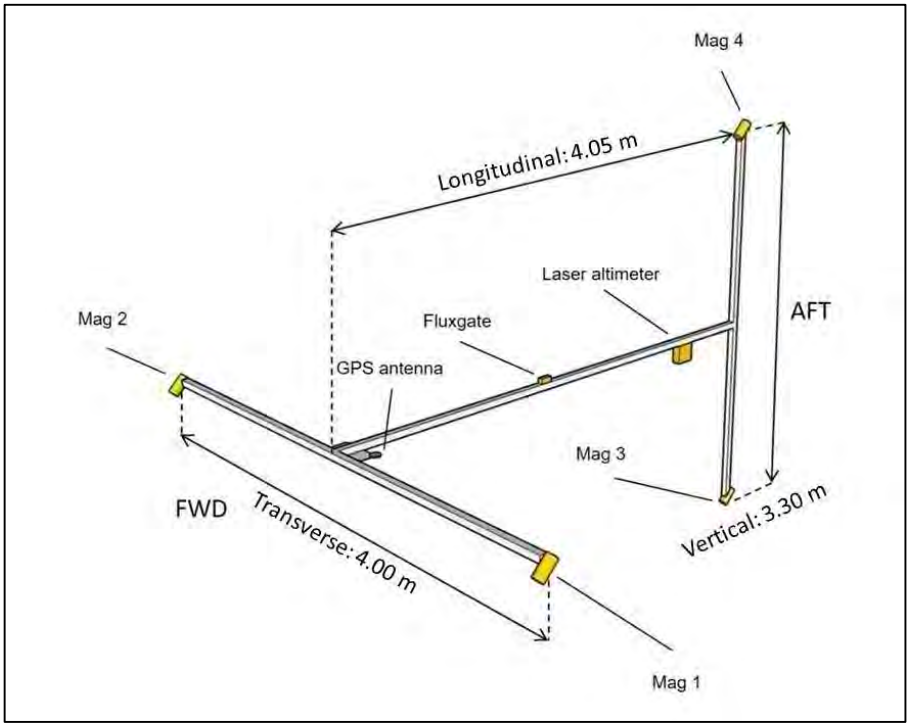

Figure 5: Schematic diagram of magnetic gradiometer system showing triaxial sensor separations. Not to scale.

Position	Location	Model	Serial Number
Mag 1	Forward left	Scintrex CS-3	0706248
Mag 2	Forward right	Scintrex CS-3	2010625
Mag 3	Aft lower	Scintrex CS-3	2105647
Mag 4	Aft upper	Scintrex CS-3	0712302

Table 2: Magnetometer details.

3.2.2 IMPAC

The Integrated Multi-Parameter Acquisition Console (IMPAC) (Figure 6), manufactured by Nuvia Dynamics Inc. (previously Pico Envirotec Inc.), is the main computer used in integrated data recording, data synchronizing, providing real-time quality control data for the geophysical operator display, and the generation of navigation information for the pilot and operator display systems.

Figure 6: IMPAC data acquisition system.

IMPAC uses the Microsoft Windows operating system and geophysical parameters are based on Nuvia's Airborne Geophysical Information System (AGIS) software. Depending on survey specifications, information such as magnetic field, electromagnetic response, total gamma count, counts of various radioelements (K, U, Th, etc.), cosmic radiation, barometric pressure, atmospheric humidity, temperature, aircraft attitude, navigation parameters, and GPS status can all be monitored on the AGIS on-board display (Figure 7).

While in flight, raw magnetic response, magnetic fourth difference, compensated and uncompensated data, radiometric spectra, EM response, aircraft position, survey altitude, cross track error, and other parameters are recorded and can be viewed by the geophysical operator for immediate QC (quality control). Additional software allows for post or real time magnetic compensation and radiometric calibration.

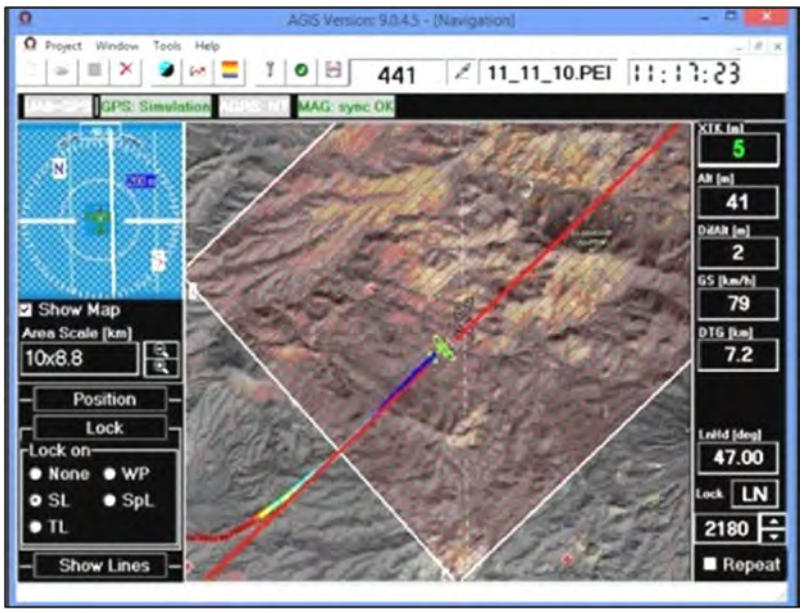

Figure 7: AGIS operator display showing real time flight line recording and navigation parameters. Additional windows display real-time geophysical data to operator.

3.2.3 GPS Navigation System

A Hemisphere R120 GPS receiver and a Novatel GPS antenna on the aircraft integrated with the AGIS navigation system and pilot display (PGU) provide accurate navigational information and control. A Hemisphere R330 GPS receiver (Figure 8) located in the helicopter connected to a Novatel GPS antenna located on the triaxial magnetic gradient bird airframe provide accurate position data for the bird independent of pilot navigation. The R120 and R330 GPS receivers support fast updates and outputs messages at a rate of up to 20 Hz (20 times per second); delivering sub-meter positioning accuracy in three dimensions. They support GNSS (GPS/GLONASS) L1 and L2 signals.

The Hemisphere receivers support differential correction methods including L-Band, RTK, SBAS, and Beacon. They employ innovative Hemisphere GPS Eclipse SureTrack technology, which allows modeling the phase on satellites that the airborne unit is currently tracking. With SureTrack technology, dropouts are reduced and speed of the signal reacquisitions is increased; enhancing accurate positioning when base corrections are not available.

Figure 8: Hemisphere R330 GPS receiver.

3.2.4 Pilot Guidance Unit

Steering and elevation (ground clearance) information is continuously provided to the pilot by the Pilot Guidance Unit (PGU). The graphical display is mounted on top of the aircraft's instrument panel, remotely from the data acquisition system. The PGU is the primary navigation aid (Figure 9) to assist the pilot in keeping the aircraft on the planned flight path, heading, speed, and at the desired ground clearance.

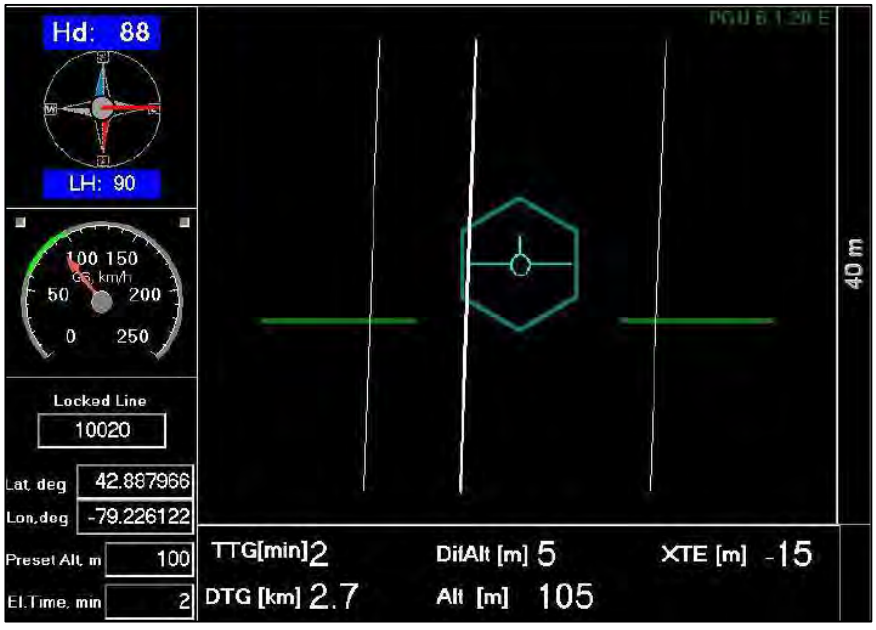

Figure 9: PGU screen displaying navigation information.

PGU information is displayed on a full VGA 600 x 800 pixel 7 inch (17.8 cm) LCD display. The CPU for the PGU is contained in a PC-104 console and uses Microsoft Windows operating system control, with input from the GPS antenna on the aircraft, laser altimeter, and AGIS.

3.2.5 Laser Altimeter

Terrain clearance is measured by an Opti-Logic RS800 Rangefinder laser altimeter (Figure 10) attached to the belly of the forward magnetometer boom. The RS800 laser is a time-of-flight sensor that measures distance by a rapidly modulated and collimated laser beam that creates a dot on the target surface. The maximum range of the laser altimeter is 700 m off natural surfaces with accuracy of ±1 m on 1 x 1 m diffuse target with 50% (±20%) reflectivity. Within the sensor unit, reflected signal light is collected by the lens and focused onto a photodiode. Through serial communications and digital outputs, ground clearance data are transmitted to an RS-232 compatible port and recorded and displayed by the AGIS and PGU at 10 Hz in meters.

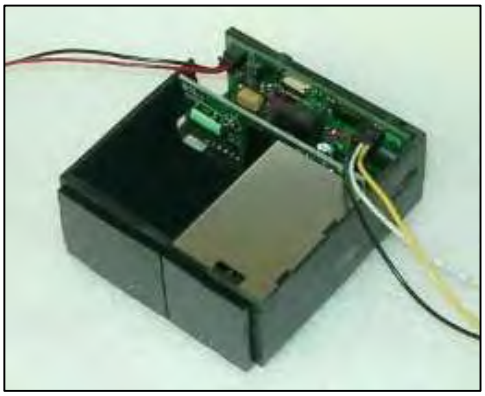

Figure 10: Opti-Logic RS800 Rangefinder laser altimeter.

3.2.6 Magnetometer

The survey was flown with four Scintrex CS-3 split-beam cesium vapor magnetometers (Figure 11) mounted in a non-magnetic and non-conductive slung bird-type configuration. The magnetometers were oriented at 45 degrees with respect to the horizontal to couple with local magnetic field at the Blakelock survey area.

Figure 11: View of CS-3 cesium vapor magnetometers.

3.2.7 Fluxgate Magnetometer

As the survey helicopter flies along a survey line, small attitude changes (pitch, roll, and yaw) are recorded by a triaxial fluxgate magnetometer (Figure 12). The fluxgate consists of three magnetic sensors, X, Y, and Z, operating independently and simultaneously. Each sensor has an analog output corresponding to the directional component of the ambient magnetic field along its axis. Response of the sensors is proportional to the cosine of the angle between the applied field and the sensor's sensitive axis.

Figure 12: Billingsley TFM100G2 triaxial fluxgate magnetometer.

3.2.8 Magnetic Base Station

Temporal variations of Earth's magnetic field, particularly diurnal, were monitored and recorded by two GEM GSM-19T base station magnetometers. They were operated at all times while airborne data were being collected. The base stations were located in an area with low magnetic gradient, away from electric power transmission lines and moving ferrous objects, such as motor vehicles, that could affect the survey data integrity.

The GEM GSM-19T magnetometer (Figure 13) with integrated GPS time synchronization uses proton precession technology with absolute accuracy of ±0.20 nT and sensitivity of 0.15 nT at 1 Hz. Base station magnetic data were recorded on internal solid-state memory and downloaded onto a field laptop computer using a serial cable and GEMLink 5.4 software. Profile plots of the base station readings were generated, updated, and reviewed at the end of each survey day.

Figure 13: GEM GSM-19T proton precession magnetometer.

4.0 Survey Operations

The survey was flown from May 11 to May 14, 2021 in cloudy and windy conditions. The experience of the pilot ensured that data quality objectives were met, and that safety of the flight crew was never compromised given the potential risks involved in airborne geophysical surveying. Field processing and quality control checks were performed daily.

4.1 Operations Base and Crew

The base of operation for the Blakelock survey was at Cochrane, Ontario, southwest of the survey block.

Precision's geophysical crew consisted of four members (Table 3):

Crew Member	Position
Devin Landis	Helicopter survey pilot
Jonathan Passiniemi	Geophysical operator and electronics technician
Shawn Walker, M.Sc., P.Geo.	Geophysicist – data processor, mapping, and reporting (off-site)
Jenny Poon, B.Sc., P.Geo.	Geophysicist – reporting (off-site)

Table 3: List of survey crew members.

4.2 Magnetic Base Station Specifications

Changes in the Earth's magnetic field over time, such as diurnal variations, magnetic pulsations, and geomagnetic storms, were measured and recorded by two stationary GEM GSM-19T proton precession magnetometers. The magnetic base stations were installed in an area (Table 4; Figures 14 and 15) of low magnetic noise away from metallic items such as ferromagnetic objects, vehicles, and power lines that could affect the base stations and ultimately the survey data.

Station Name	Easting/Northing	Latitude/Longitude	Datum/Projection
GEM 3 S/N 5081669	496923 m E 5433781 m N	49° 3' 24.80" N 81° 2' 31.63" W	WGS 84, Zone 17N
GEM 4 S/N 2065370	496927 m E 5433766 m N	49° 3' 24.34" N 81° 2' 31.42" W	WGS 84, Zone 17N

Table 4: Magnetic base station locations.

Magnetic readings were reviewed at regular intervals to ensure that no airborne data were collected during periods of high magnetic activity (greater than 10 nT change per minute).

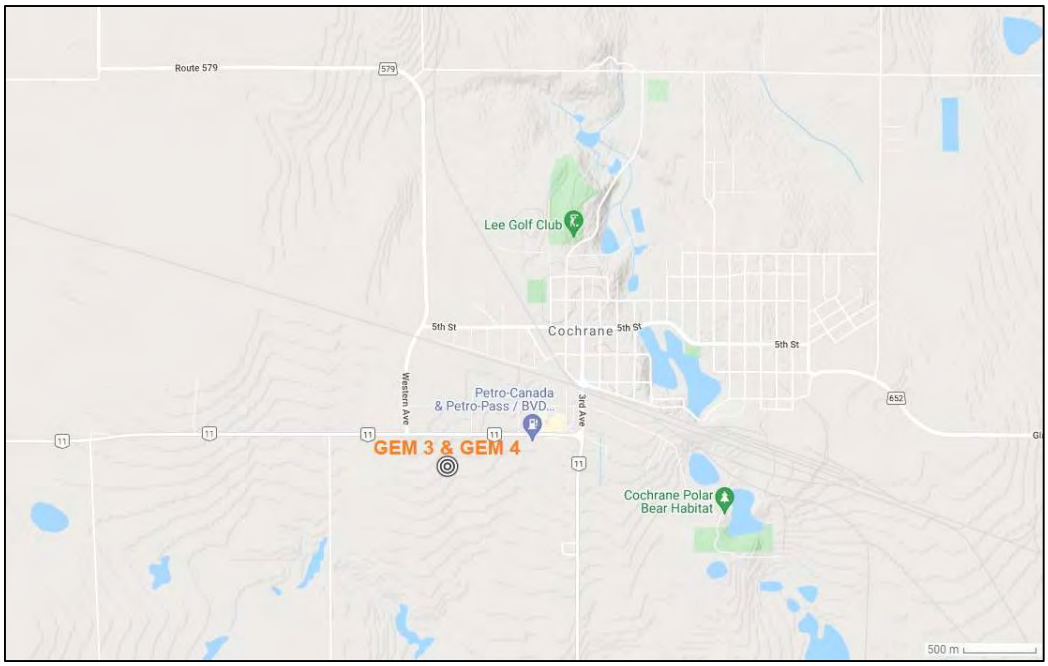

Figure 14: GEM 3 and GEM 4 magnetic base stations located southwest of the survey block.

Figure 15: GEM 3 (left) and GEM 4 (right) magnetic base stations at Cochrane, Ontario.

4.3 Field Processing and Quality Control

Survey data were transferred from the aircraft's data acquisition system onto a USB memory stick and copied onto a field data processing laptop on a flight by flight basis. The raw data files in PEI binary data format were converted into Geosoft GDB database format. Using Geosoft Oasis Montaj 9.9.1, the data were inspected to ensure compliance with contract specifications (Table 5; Figures 16 to 18).

Parameter	Specification	Tolerance
Position	Line Spacing	Flight line deviation within 8 m L/R from ideal flight path. No exceedance for more than 1 km.
	Height	Nominal flight height of 40 m above ground level (AGL) with tolerance of ±10 m. No exceedance for more than 1 km, provided deviation is not due to tall trees, topography, mitigation of wildlife/livestock harassment, cultural features, or other obstacles beyond the pilot's control.
	GPS	GPS signals from four or more satellites must be received at all times, except where signal loss is due to topography. No exceedance for more than 1 km.
Magnetics	Temporal/Diurnal Variations	Non-linear temporal magnetic variations within 10 nT of a linear chord of length 5 minutes.
	Normalized 4th Difference	Magnetic data within 0.01 nT peak to peak. No exceedance for distances greater than 1 km or more, provided noise is not due to geological or cultural features.

Table 5: Contract survey specifications.

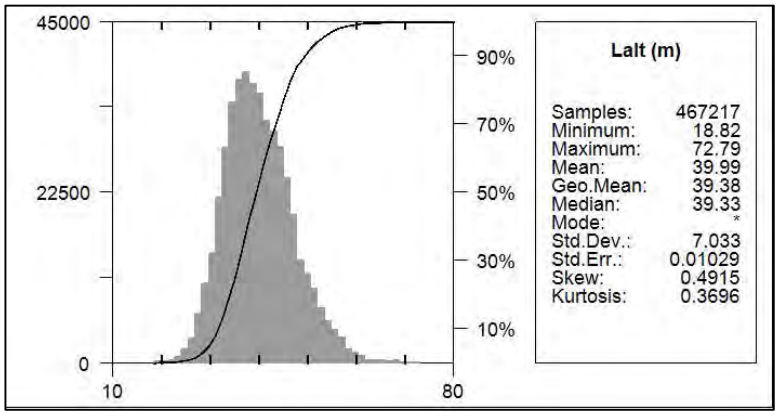

Figure 16: Histogram showing survey bird elevation vertically above ground.

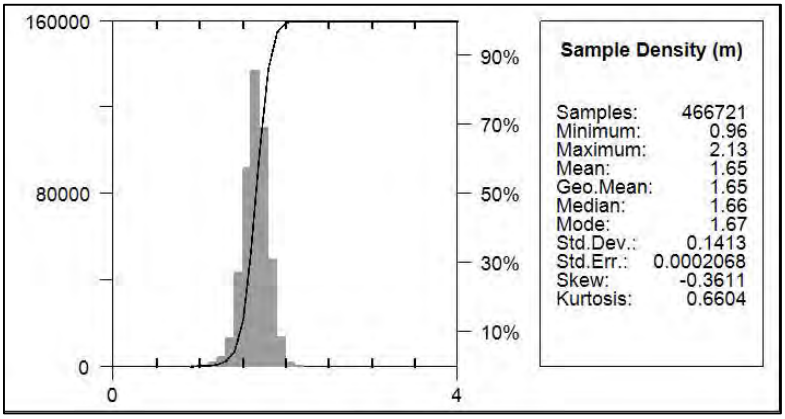

Figure 17: Histogram showing magnetic sample density. Horizontal distance in meters between adjacent measurement locations; magnetic sample frequency 20 Hz.

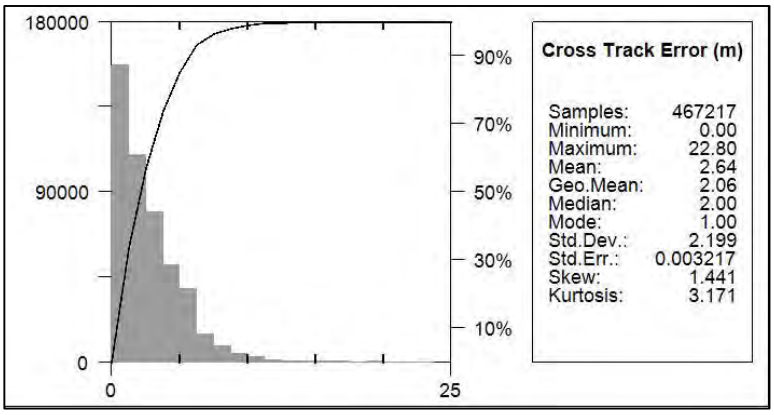

Figure 18: Histogram showing cross track error of survey bird.

5.0 Data Acquisition Equipment Checks

Equipment tests and calibrations were conducted for the laser altimeter and magnetometers at the start of the survey to ensure compliance with contract specifications and to deliver high quality airborne geophysical data. A lag test was conducted for both the laser altimeter and magnetometers. For the airborne magnetometers, a heading error test was flown.

5.1 Laser Altimeter Calibration

The Opti-Logic RS800 laser altimeter used on the survey helicopter was tested and calibrated in accordance with manufacturer's instructions prior to starting the survey. This ensured that heights reported by the laser were accurate within the normal survey operating range.

5.2 Lag Test

A lag test was performed to determine the difference in time the digital reading was recorded for the magnetometers and laser altimeter with the position fix time that the fiducial of the reading was obtained by the GPS system resulting from a combination of system lag and different locations of the various sensors and the GPS antenna. The test was flown in reciprocal headings over identifiable features at survey speed and height to isolate position changes. The resulting data (Table 6) were used to correct for time and position.

Instrument	Source	Lag Fiducial	Correction (sec)
Mag 1	Logging equipment	38	1.9
Mag 2	Logging equipment	38	1.9
Mag 3	Logging equipment	38	1.9
Mag 4	Logging equipment	38	1.9
Laser	Sharp gully	6	0.3

Table 6: Survey lag correction values. Laser altimeter resampled to 20 Hz.

5.3 Heading Correction Test

Optically pumped magnetometers are subject to small errors in the reported total magnetic intensity depending on the direction of flight. For a gradient survey, this heading error is determined for each of the four survey flight directions by comparing the average total magnetic intensity for all four sensors with the average total magnetic intensity reported by the individual sensors. These four differences are then averaged, and the same heading correction is applied to all four sensors in the four flight directions, so that the gradient measurements are not affected. Results of the heading correction analysis are summarized in Table 7.

Heading	Heading Correction (nT)
000°	2.28
090°	-2.38
180°	-2.81
270°	2.91
Total:	**0.00**

Table 7: Heading correction data.

6.0 Data Processing

After all data were collected, several procedures were undertaken to ensure that the data met a high standard of quality. All magnetic data recorded by the AGIS were converted into Geosoft or ASCII file formats using Nuvia Dynamics software. Further processing (Figure 19) was carried out using Geosoft Oasis Montaj 9.9.1 geophysical processing software along with proprietary processing algorithms.

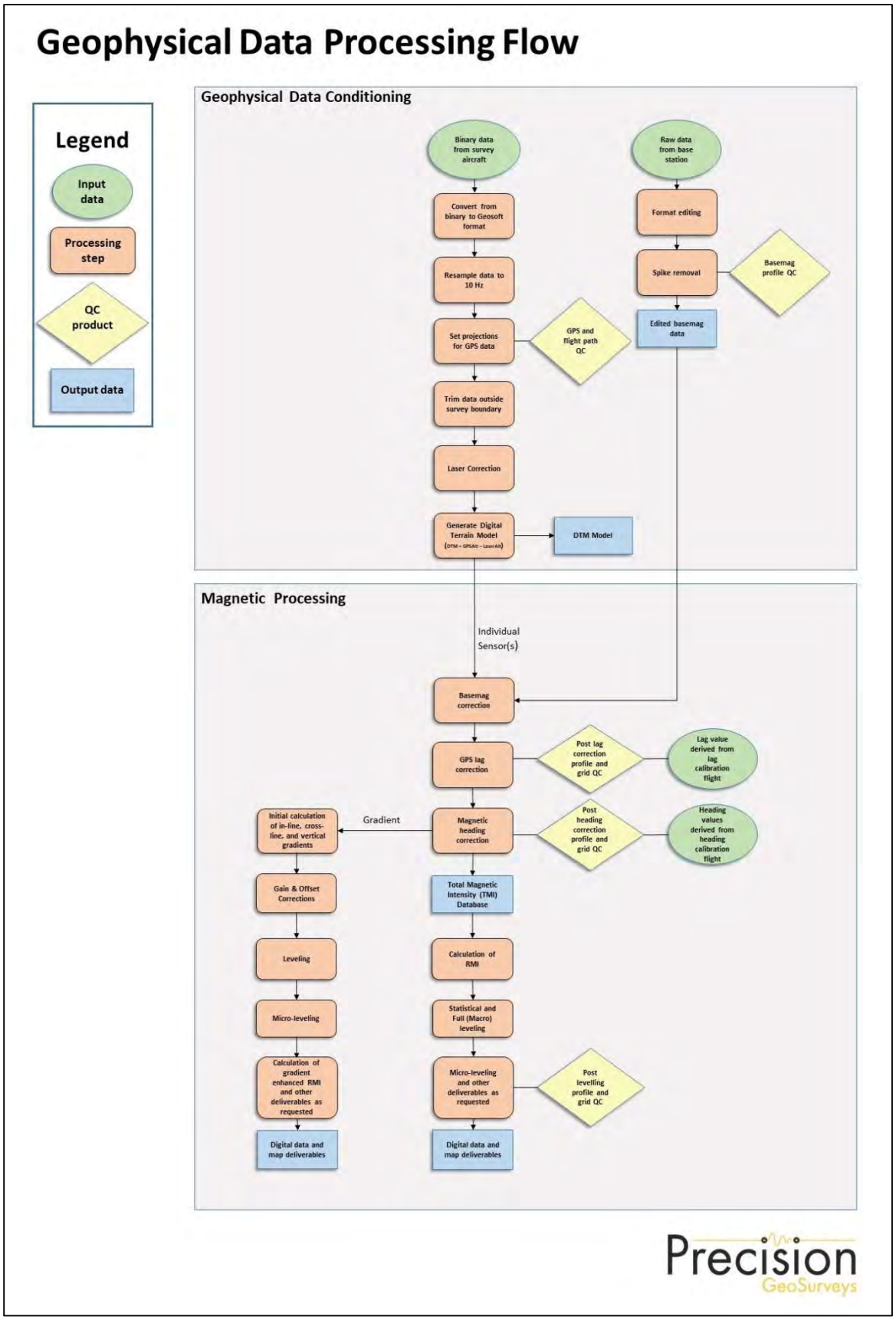

Figure 19: Magnetic data processing flow.

6.1 Position Corrections

In order to collect high resolution geophysical data, the location at which the data were collected and recorded must be accurate.

6.1.1 Lag Correction

A correction for lag error was applied to the geophysical data recorded at each individual sensor to compensate for the combination of lag in the recording system and the sensing instrument flying in a different location from the GPS antenna, as determined during the lag test. Validity of the lag corrections was confirmed by the absence of grid corrugations in adjoining reciprocal lines.

6.2 Flight Height and Digital Terrain Model

Laser altimeters are unable to provide valid data over glassy water or fog which dissipate the laser so that a "zero" reading is obtained. In these cases, estimates of correct height are inserted manually. Dense vegetation generates high frequency variations from leaf and branch reflections. A Rolling Statistics filter is applied to the lag corrected (0.3 seconds lag) laser altimeter data to remove vegetation clutter followed by a Low Pass filter to smooth out the laser altimeter profile to eliminate isolated high frequency noise and generate a surface closely corresponding to the actual ground profile.

A Digital Terrain Model (DTM) channel was calculated by subtracting the processed laser altimeter data from the filtered GPS altimeter data defined by the WGS 84 ellipsoidal height. DTM accuracy is affected by the geometric relationship between the GPS antenna and the laser altimeter as well as flight attitude of the aircraft, slope of the ground, sample density, and satellite geometry.

6.3 Magnetic Processing

Magnetic data from each individual sensor were corrected for temporal variations (including diurnal) and lag. The data were examined for magnetic noise and spikes, which were removed as required. The background magnetic field, International Geomagnetic Reference Field (IGRF) of the Earth was removed. Survey and tie line data of the resulting residual magnetic field were leveled. Magnetic gradients in the X, Y, and Z axes were determined to provide in-line, cross-line, and vertical gradients, respectively.

6.3.1 Temporal Variation Correction

The intensity of Earth's magnetic field varies with location and time. The time variable, known as diurnal or more correctly temporal variation, is removed from the recorded airborne data to provide the desired magnetic field at a specified location. Magnetic data from base station GEM 4 were used for correcting the airborne magnetic survey data, and GEM 3 data were retained for backup. The data were edited, plotted, and merged into a Geosoft database (.GDB) on a daily basis.

Base station measurements were averaged to establish a magnetic reference datum of 55468.13 nT. Magnetic deviations relative to the reference datum were used to calculate the observed variations of the Earth's magnetic field over time. The airborne magnetic data were then corrected for temporal variations by subtracting the base station deviations from the data collected on the aircraft, effectively removing the effects of diurnal and other temporal variations.

6.3.2 Heading Correction

For each survey heading, changes in the apparent magnetic field due to instrumental heading error are measured and recorded. These values are used to construct a heading table (.TBL) file. For the entire dataset, the overall average magnetic field value was calculated. For each of the four headings, the averages were calculated and then compared to the overall average to determine four values which were used to correct heading and offset errors in each flight direction for each magnetometer.

6.3.3 IGRF Removal

The International Geomagnetic Reference Field (IGRF) model is the empirical representation of Earth's dynamic magnetic field (main core field without external sources) collected and disseminated from satellite data and from magnetic observatories around the world. The IGRF has historically been revised and updated every five years by a group of modellers associated with the International Association of Geomagnetism and Aeronomy (IAGA).

The initial unleveled Residual Magnetic Intensity (RMI) was calculated by taking the difference between the 13th generation IGRF (IGRF-13, released in December 2019) and the non-leveled Total Magnetic Intensity (TMI) to create a more valid model of individual near-surface magnetic anomalies. This model is independent of time to allow for other magnetic data (previous or future) to be more easily incorporated into each survey database.

6.3.4 Leveling and Micro-leveling

Small inconsistencies in flight height and line orientation result in small spatial variabilities in magnetic intensity measured at the intersection points of survey lines and tie lines. Using the initial Residual Magnetic Intensity (RMI) data from the average of Mag 1 and Mag 2 (TMI with the IGRF removed), RMI data from survey and tie lines were leveled to each other. Two types of leveling were applied to the corrected data: conventional leveling and micro-leveling. There were two components to conventional leveling: statistical leveling to level tie lines and full leveling to level survey lines. The statistical leveling method corrected the SL/TL intersection errors that follow a specific pattern or trend. Through the error channel, an algorithm calculated a least-squares trend line and derived a trend error curve, which was then added to the channel to be leveled. The second component was full leveling. This adjusted the magnetic value of the survey lines so that all lines matched the trended tie lines at each intersection point.

Following statistical leveling, micro-leveling was applied to the corrected conventional leveled data. This iterative grid-based process removed low amplitude components of flight line noise that still remained in the data after tie line and survey line leveling and resulted in fully leveled RMI data.

6.4 Magnetic Gradient

When magnetic values are obtained simultaneously from two or more sensors at a fixed separation, gradient of the magnetic field can be measured. Dividing the difference in magnetic values between the sensors by the distance between the sensors yields the magnetic gradient. The units are commonly reported as nT/m and, by convention, positive magnetic polarity is defined as to the north and east, and negative to the south and west. For vertical gradient, positive is defined as downwards. The sensors and the separations that were used to determine the various gradients are listed in Table 8.

Direction	Sensors	Separation (m)
Lateral (X)	Mag 1 and Mag 2	4.00
Longitudinal (Y)	Sequential TMI values (Average of Mag 1 and Mag 2)	1.65*
Vertical (Z)	Mag 3 and Mag 4	3.30

Table 8: Magnetic sensor relationship used to calculate magnetic gradients. Total magnetic intensity (TMI) was determined as the average of Mag 1 and Mag 2, and successive values of the TMI were used to determine the longitudinal (Y axis) gradient.
*average separation between sequential TMI values shown; actual value varied according to aircraft speed.

Because the magnetic field gradient varies more rapidly than total field strength, magnetic gradient provides higher spatial resolution, especially for shallow sources that are smaller than the survey line spacing or linear sources that are parallel to flight lines. Magnetic gradients, as compared to

total magnetic intensities, have the additional benefits of being less sensitive to temporal variations and aircraft/sensor movement errors.

6.4.1 Horizontal Gradients

Horizontal magnetic gradients were determined in the in-line (Y axis) and cross-line (X axis) directions. Mag 1 (left) and Mag 2 (right) were used for both directions so that elevations were consistent in both axes. Gradients were calculated with respect to the magnetometer array with units provided as nT/m.

In-line gradient (ILG) is determined from successive average magnetic values of Mag 1 and Mag 2 referenced to the distance between data points in accordance with the following formula:

$$ILG = \frac{a(i+1) - a(i-1)}{d(i+1) + d(i-1)}$$

where: a is the average total magnetic intensity of Mag 1 and Mag 2
d is the distance between measurements
i is the record number for the sample location

Cross-line gradient (XLG) was measured directly by dividing the difference between Mag 1 and Mag 2 by the sensor separation in accordance with the following formula:

$$XLG = \frac{\text{Mag 1} - \text{Mag 2}}{d_x}$$

where: d_x is the transverse sensor separation, 4.00 m

Gain corrections were applied to the initial cross-line gradient. Overall, Mag 1 and Mag 2 should produce the same total magnetic field. If the ratio of the TMI between the sensors does not equal one, a gain correction needs to be applied to account for instrument error and asymmetric magnetic fields. The mean of the ratio between the TMI values for Mag 1 and Mag 2 for each line was calculated and applied to each Mag 2 value along the line. The cross line gradient was then re-calculated from the gain-corrected Mag 2 values.

After correcting for gain in the cross-line gradient, offset corrections were applied. Offsets were determined by subtracting the first difference of the gain-corrected cross-line gradient from the gain-corrected gradient to reduce line-to-line errors (striping) in the gradient grid. The resulting data were then micro-leveled to remove any remaining striping.

Total Horizontal Gradient (HG) is the magnitude of the combined in-line and cross-line gradients. It is used to estimate contact locations of magnetic bodies at shallow depths, reveal anomaly textures, and highlight anomaly-pattern discontinuities.
Horizontal Gradient (HG) is calculated as:

$$\mathrm{HG}(x,y) = \sqrt{ILG^2 + XLG^2}$$

where: ILG is the in-line gradient
XLG is the cross-line gradient

6.4.2 Vertical Gradient

Vertical gradient (Z axis) is useful for enhancing shorter wavelength signals; therefore, edges of magnetic anomalies are highlighted, and deep geologic sources in the data are suppressed.

Vertical gradient is determined directly with respect to the magnetometer array of Mag 3 (lower) and Mag 4 (upper) with units provided as nT/m as follows:

$$Vertical\ Gradient = \frac{\mathrm{Mag\ 3} - \mathrm{Mag\ 4}}{d_z}$$

where: d_z is the vertical sensor separation, 3.30 m

6.4.3 Analytic Signal

Analytic Signal (AS) is the magnitude of the total magnetic gradient in three axes, determined as the square root of the sum of the squares of the measured horizontal gradients (in-line and cross-line) and vertical gradient. Analytic signal is useful in locating the edges of magnetic source bodies.

If M is the magnetic field, then Analytic Signal (AS) is calculated as:

$$\mathrm{AS}(x,y,z) = \sqrt{\left(\frac{\partial M}{\partial x}\right)^2 + \left(\frac{\partial M}{\partial y}\right)^2 + \left(\frac{\partial M}{\partial z}\right)^2}$$

6.4.4 Tilt Derivative

The Tilt Derivative (TDR) was applied to the Total Magnetic Intensity (TMI). Variations of anomaly amplitude are minimized in order to enhance subtle features. Therefore, weak magnetic anomalies are highlighted.

The tilt derivative is calculated by:

$$TDR = tan^{-1}\left[\frac{\left(\frac{\partial M}{\partial z}\right)}{\sqrt{\left(\frac{\partial M}{\partial x}\right)^2 + \left(\frac{\partial M}{\partial y}\right)^2}}\right]$$

where: M is the magnetic field
$\frac{\partial}{\partial Z}$ is the vertical derivative
$\frac{\partial}{\partial x}$ is the horizontal derivative in the x-direction
$\frac{\partial}{\partial y}$ is the horizontal derivative in the y-direction

6.4.5 Calculation of First Vertical Derivative

First Vertical Derivative (1VD) is the first order vertical derivative of the leveled Reduced to Magnetic Pole (RTP) data determined from RMI. It is the vertical rate of change in the magnetic field per unit distance (m). The vertical gradient is used to enhance shorter wavelength signals; therefore, edges of magnetic anomalies are highlighted, and deep geologic sources in the data are suppressed.

The filter, L, used to produce the nth vertical derivative is described by:

$$L(r) = r^n$$

where: r is the radial component in the wavenumber domain

6.4.6 Gradient Enhanced Magnetic Intensity

Using the measured gradients (in-line and cross-line directions), the initial enhanced Total Magnetic Intensity (TMIge) was generated. A Butterworth high-pass filter was applied to this initial enhanced TMI to extract the short wavelength signals and a low-pass filter was applied to the measured TMI to extract the long wavelength signals. These wavelengths are then summed together to generate the final enhanced Total Magnetic Intensity. By subtracting the IGRF, the gradient enhanced Residual Magnetic Intensity (RMIge) was generated.

6.4.7 Gradient Enhanced Reduction to Magnetic Pole

Gradient enhanced Reduced to Magnetic Pole (RTPge) data were determined from the gradient enhanced Residual Magnetic Intensity (RMIge) data. The RTP filter was applied in the Fourier

domain and rotates the observed magnetic inclination and declination field to what the field would look like at the north magnetic pole, to allow observation of magnetic trends and patterns independent of magnetic inclination and declination.

Inclination and declination were calculated by using the "Date" channel. The derived values were used in the following formula:

$$RTP\ (\theta) = \frac{[\sin(I) - I\ \cdot \cos(I) \cdot \cos(D-\theta)]^2}{[\sin^2(I_a) + \cos^2(I_a) \cdot \cos^2(D-\theta)] \cdot [\sin^2(I) + \cos^2(I) \cdot \cos^2(D-\theta)]}$$

where: I is geomagnetic inclination in ° from horizontal
D is geomagnetic declination in ° azimuth from magnetic north
I_a is the inclination for amplitude correction (never less than I). Default is ± 20°. If $|I_a|$is specified to be less than$|I|$, it is set to I

7.0 Deliverables

Blakelock survey block data are presented as digital databases, maps, and a logistics report.

7.1 Digital Data

Digital files have been provided in three formats:

- GDB file for use in Geosoft Oasis Montaj,
- XYZ file,
- CSV Excel comma separated file.

Full descriptions of the digital data and contents are included in Appendix C.

7.1.1 Grids

The digital data were represented as grids as listed below:

- Digital Terrain Model (DTM)
- Total Magnetic Intensity (TMI)
- Residual Magnetic Intensity (RMI) – removal of IGRF from TMI
- Reduced to Magnetic Pole (RTP) – reduced to magnetic pole of RMI
- In-Line Gradient (ILG)
- Cross-Line Gradient (XLG)
- Vertical Gradient (VG)
- Horizontal Gradient (HG) – total magnitude of the horizontal gradients (in-line and cross-line)

- Analytic Signal (AS)
- Tilt Derivative (TDR) of TMI
- First Vertical Derivative (1VD) of RTP
- Gradient enhanced Total Magnetic Intensity (TMIge)
- Gradient enhanced Residual Magnetic Intensity (RMIge)
- Gradient enhanced Reduced to Magnetic Pole (RTPge) – reduced to magnetic pole of RMIge

Magnetic data were gridded and displayed using the following Geosoft parameters:

- Gridding method: minimum curvature
- Grid cell size: 25 m
- Low-pass desampling factor: 2
- Tolerance: 0.001
- % pass tolerance: 99.99
- Maximum iterations: 100

The gradient and gradient enhanced magnetic grids were drawn with a wet-look colour shade and all other magnetic grids were drawn with a histogram-equalized colour shade. All maps were shaded with the sun illumination inclination at 45° and declination at 045°. DTM grid was drawn with a linear topographic colour scale.

7.2 KMZ

Gridded digital data were exported into .KMZ files which can be displayed using Google Earth. The grids can be draped onto topography and rendered to give a 3D view.

7.3 Maps

Digital maps were created for the Blakelock survey block. The following map products were prepared:

Overview Maps (colour images with elevation contour lines):

- Actual flight lines
- DTM

Magnetic Maps (colour images with elevation contour lines):

- TMI, with actual flight lines and topographic features
- TMI
- RMI
- RTP of RMI

- ILG
- XLG
- VG
- HG
- AS
- TDR
- 1VD of RTP

Gradient Enhanced Magnetic Maps (colour images with elevation contour lines):

- TMIge
- RMIge
- RTPge of RMIge

All survey maps were prepared in WGS 84 and UTM Zone 17N.

7.4 Report

A pdf copy of the logistics report is included along with digital data and maps. The report provides information on the data acquisition procedures, data processing, and presentation of the Blakelock survey block data.

8.0 Conclusions and Recommendations

The Blakelock survey resulted in the collection of 771 line km of high resolution gradient magnetic data over one survey block. The data have been processed and plotted on maps as a representation of the magnetic features of the survey area.

Geophysical data processing, particularly leveling and data interpolation routines, may tend to smooth the original data so that resolution is reduced. In addition, gridding algorithms are not always able to properly calculate grids where flight height between adjacent flight lines varied due to cultural obstacles or steep terrain, where geological structures are acute to flight lines, where line spacing exceeds the size of the causative anomaly, or near grid margins as in "edge effects." Therefore, subtle geophysical features in gridded and derivative-enhanced products or near the survey margins may introduce artifacts and must be evaluated with discretion.

The airborne geophysical data were acquired to map the geophysical characteristics of the survey area, which are in turn related to the distribution of magnetic minerals in the Earth. Magnetic patterns correspond to the concentration and distribution of magnetite and other magnetic minerals in Earth's subsurface. Therefore, the geophysical data will be useful in mapping lithology, structure, and alteration, which will benefit mineral exploration initiatives and geological studies.

Geophysical data are rarely a direct indication of mineral deposits and therefore interpretation and careful integration with existing and new geological, geochemical, and other geophysical data are recommended to maximize value from the survey investment.

Respectfully submitted,
Precision GeoSurveys Inc.

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June 2021

Appendix A

Polygon Coordinates

Blakelock – WGS 84 Zone 17N

Latitude (deg N)	Longitude (deg W)	Easting (m)	Northing (m)
49.50417	79.98743	573311	5483997
49.50197	79.98747	573311	5483753
49.50194	79.98348	573600	5483753
49.49113	79.98371	573600	5482551
49.49118	79.97814	574003	5482562
49.48389	79.97829	574003	5481751
49.48401	79.99212	573001	5481751
49.48037	79.99220	573001	5481346
49.48050	80.00905	571780	5481345
49.47274	80.00921	571780	5480482
49.47081	80.00925	571780	5480267
49.47084	79.92491	577890	5480354
49.46666	79.92500	577890	5479890
49.46666	79.90597	579269	5479910
49.45416	79.90625	579269	5478520
49.45417	80.18125	559339	5478268
49.46249	80.18111	559339	5479193
49.46269	80.20098	557899	5479200
49.47083	80.20084	557899	5480105
49.47084	80.20652	557488	5480101
49.48750	80.20625	557488	5481954
49.48750	80.15596	561130	5481993
49.47083	80.15625	561130	5480140
49.47087	80.13772	562472	5480160
49.48333	80.13751	562472	5481545
49.48334	80.08138	566537	5481594
49.49167	80.08123	566537	5482520
49.49167	80.03774	569686	5482560
49.50417	80.03750	569686	5483949

Appendix B

Equipment Specifications

- GEM GSM-19T Proton Precession Magnetometer (Magnetic Base Station)
- Hemisphere R120 GPS Receiver
- Hemisphere R330 GPS Receiver
- Opti-Logic RS800 Rangefinder Laser Altimeter
- Setra Model 276 Barometric Pressure Sensor
- Scintrex CS-3 Survey Magnetometer
- Billingsley TFM100G2 Ultra Miniature Triaxial Fluxgate Magnetometer
- Nuvia Dynamics IMPAC data recorder system (for navigation and geophysical data acquisition)

GEM GSM-19T Proton Precession Magnetometer (Magnetic Base Station)

Sensitivity	0.15 nT @ 1 Hz
Resolution	0.01 nT (gamma), magnetic field and gradient
Absolute Accuracy	±0.2 nT @ 1 Hz
Operating Range	20,000 nT to 120,000 nT
Gradient Tolerance	Over 7,000 nT/m
Operating Ranges	Temperature: -40°C to +50°C Battery Voltage: 10.0 V minimum to 15 V maximum Humidity: up to 90% relative, non-condensing
Storage Temperature	-50°C to +50°C
Dimensions	Console: 223 x 69 x 40 mm Sensor Staff: 4 x 450 mm sections Sensor: 170 x 71 mm dia. Weight: console 2.1 kg, sensor and staff assembly 2.2 kg
Integrated GPS	Yes

Hemisphere R120 GPS Receiver

GPS Sensor	Receiver Type	L1, C/A code, with carrier phase smoothing (Patented COAST technology during differential signal outage
	Channels	12-channel, parallel tracking (10-channel when tracking SBAS)
	Update Rate	Up to 20 Hz position
	Cold Start Time	<60 s
	SBAS Tracking	2-channel, parallel tracking
	Horizontal Accuracy	<0.02 m 95% confidence (RTK 1, 2) <0.28 m 95% confidence (L-Dif 1, 2) <0.6 m 95% confidence (DGPS 1,3) <2.5 m 95% confidence (autonomous, no SA1)
	Differential Options	SBAS, Autonomous, External RTCM, RTK, OmniSTAR (HP/XP)
Beacon Sensor Specifications	Channels	2-channel, parallel tracking
	Frequency Range	283.5 to 325 kHz
	MSK Bit Rates	50, 100, and 200 bps
L-Band Sensor	Channels	Single channel
	Frequency Range	1530 MHz to 1560 MHz
	Satellite Selection	Manual or Automatic (based on location)
	Startup and Satellite Reacquisition Time	15 seconds typical
Communications	Serial Ports	2 full duplex RS232C
	Baud Rates	4800 – 115200
	USB Ports	1 Communications
	Correction I/O Protocol	RTCM SC-104
	Data I/O Protocol	NMEA 0183
	Timing Output	1 PPS (HCMOS, active high, rising edge sync, 10 kΩ, 10 pF load)
	Raw Data	Proprietary binary (RINEX utility available)
Environmental	Operating Temperature	-30°C to +70°C
	Storage Temperature	-40°C to +85°C
	Humidity	95% non-condensing
Power GPS Sensor	Input Voltage Range	8 to 36 VDC
	Power Consumption	3 Watts
	Current Consumption	< 250 mA @ 12 VDC
	Antenna Voltage Output	5.0 VDC

[1]Depends on multipath environment, number of satellites in view, satellite geometry and ionospheric activity.
[2] Up to 5 km baseline length.
[3] Depends also on baseline length.

Hemisphere R330 GPS Receiver

GPS Sensor	Receiver Type	L1 and L2 RTK with carrier phase	
	Channels	12 L1CA GPS 12 L1P GPS 12 L2P GPS 12 L2C GPS 12 L1 GLONASS (with subscription code) 12 L2 GLONASS (with subscription code) 3 SBAS or 3 additional L1CA GPS	
	Update Rate	10 Hz standard, 20 Hz available	
	Cold Start Time	<60 s	
	Warm Start Time 1	30 s (valid ephemeris)	
	Warm Start Time 2	30 s (almanac and RTC)	
	Hot Start Time	10 s typical (valid ephemeris and RTC)	
	Reacquisition	<1 s	
	Differential Options	SBAS, Autonomous, External RTCM, RTK, OmniSTAR (HP/XP)	
Horizontal Accuracy		RMS (67%)	2DRMS (95%)
	RTK [1, 2]	10 mm + 1 ppm	20 mm + 2 ppm
	OmniSTAR HP [1, 3]	0.1 m	0.2 m
	SBAS (WAAS) [1]	0.3 m	0.6 m
	Autonomous, no SA [1]	1.2 m	2.5 m
L-Band Sensor	Channel	Single channel	
	Frequency Range	1530 MHz to 1560 MHz	
	Satellite Selection	Manual or Automatic (based on location)	
	Startup and Satellite Reacquisition Time	15 seconds typical	
Communications	Serial Ports	2 full duplex RS232	
	Baud Rates	4800 – 115200	
	USB Ports	1 Communications, 1 Flash Drive data storage	
	Correction I/O Protocol	Hemisphere GPS proprietary, RTCM v2.3 (DGPS), RTCM v3 (RTK), CMR, CMR+NMEA 0183, Hemisphere GPS binary	
	Timing Output	1 PPS (HCMOS, active high, rising edge sync, 10 kΩ, 10 pF load)	
	Event Marker Input	HCMOS, active low, falling edge sync, 10 kΩ	
Environmental	Operating Temperature	-40°C to +70°C	
	Storage Temperature	-40°C to +85°C	
	Humidity	95% non-condensing	
Power GPS Sensor	Input Voltage Range	8 to 36 VDC	
	Consumption, RTK	<3.5 W (0.30 A @ 12 VDC typical)	
	Consumption, OmniSTAR	<4.3 W (0.36 A @ 12 VDC typical)	

[1]Depends on multipath environment, number of satellites in view, satellite geometry and ionospheric activity.
[2] Depends also on baseline length.
[3] Requires a subscription from OmniSTAR.

Opti-Logic RS800 Rangefinder Laser Altimeter

Accuracy	±1 m on 1x1 m^2 diffuse target with 50% reflectivity, up to 700 m
Resolution	0.2 m
Communication Protocol	RS232-8, N, 1 ASCII characters
Baud Rate	19200
Data Raw Counts	~200 Hz
Data Calibrated Range	~10 Hz
Data Rate	~200 Hz raw counts for un-calibrated operation; ~10 Hz for calibrated operation (averaging algorithm seeks 8 good readings)
Calibrated Range Units	Feet, Meters, Yards
Laser	Class I (eye-safe), 905 nm ± 10 nm
Power	7 - 9 VDC conditioned required, current draw at full power (~ 1.8 W)
Laser Wavelength	RS100 905 nm ± 10 nm
Laser Divergence	Vertical axis – 3.5 mrad half-angle divergence; Horizontal axis – 1 mrad half-angle divergence; (approximate beam “footprint” at 100 m is 35 cm x 5 cm)
Dimensions	32 x 78 x 84 mm (lens face cross section is 32 x 78 mm)
Weight	<227 g (8 oz)
Casing	RS100/RS400/RS800 units are supplied as OEM modules consisting of an open chassis containing optics and circuit boards. Custom housings can be designed and built on request.

Setra Model 276 Barometric Pressure Sensor

Performance	Accuracy RSS[1] (at constant temp)	±0.25% FS[2]
	Non-Linearity (BSFL)	±0.22% FS
	Hysteresis	0.05% FS
	Non-Repeatability	0.05% FS
	Thermal Effects[3]	Compensated range: 0°C to +55°C (+30°F to +130°F) Zero shift (over compensated range): 1% FS Span shift (over compensated range): 1% FS
	Resolution	Infinite, limited only by output noise level (0.0005% FS)
	Time Constant	10 msecs to reach 90% final output with step function pressure input
	Long Term Stability	0.25% FS / 6 months
Environmental	Temperature	Operating[4]: -18°C to +79°C (0°F to +175°F) Storage: -55°C to +121°C (-65°F to +250°F)
	Vibration	2 g from 5 Hz to 500 Hz
	Shock	50 g (Operating, 1/2 sine 10 ms)
	Acceleration	10 g
Electrical	Circuit	3-Wire[5] (Exc, Out, Com)
	Power Consumption	0.20 W (24 VDC)
	Output Impedance	5 Ω
	Output Noise	<200 µV RMS (0 to 100 Hz)

[1] RSS of non-linearity, hysteresis, and non-repeatability.
[2] FS = 300 mb for 800 – 1100 mb range; 500 for 600 – 1100 mb range; and 20 PSI for 0 to 20 PSIA.
[3] Units calibrated at nominal 70°F. Maximum thermal error computed from this datum.
[4] Operating temperature limits of the electronics only. Pressure media temperatures may be considerable higher or lower.
[5] The separate leads for +EXC, -EXC, +Out, -Out are commoned internally. The shield is connected to the case. For best performance, either the -Exc or -Out should be connected to the case. Unit is calibrated at the factory with -Exc connected to the case. The insulation resistance between all signal leads are tied together and case ground is 10

Scintrex CS-3 Magnetometer

Operating Principal	Self-oscillating split-beam Cesium Vapor (non-radioactive ^{133}Cs)
Operating Range	15,000 nT to 105,000 nT
Gradient Tolerance	40,000 nT/m
Operating Zones	15° to 75° and 105° to 165°
Hemisphere Switching	a) Automatic b) Electronic control actuated by the control voltage levels (TTL/CMOS) c) Manual
Sensitivity	0.0006 nT √Hz rms
Noise Envelope	Typically 0.002 nT peak to peak, 0.1 to 1 Hz bandwidth
Heading Error	±0.20 nT (inside the optical axis to the field direction angle range 15° to 75° and 105° to 165°)
Absolute Accuracy	<2.5 nT throughout range
Output	a) Continuous signal at the Larmor frequency which is proportional to the magnetic field (proportionality constant 3.49857 Hz/nT) sine wave signal amplitude modulated on the power supply voltage b) Square wave signal at the I/O connector, TTL/CMOS compatible
Information Bandwidth	Only limited by the magnetometer processor used
Sensor Head	Diameter: 63 mm (2.5”) Length: 160 mm (6.3”) Weight: 1.15 kg (2.6 lb)
Sensor Electronics	Diameter: 63 mm (2.5”) Length: 350 mm (13.8”) Weight: 1.5 kg (3.3 lb)
Cable, Sensor to Sensor Electronics	3 m (9’ 8”), lengths up to 5 m (16’ 4”) available
Operating Temperature	-40°C to +50°C
Humidity	Up to 100%, splash proof
Supply Power	24 to 35 VDC
Supply Current	Approx. 1.5 A at start up, decreasing to 0.5 A at 20°C
Power Up Time	Less than 15 minutes at -30°C

Billingsley TFM100G2 Ultra Miniature Triaxial Fluxgate Magnetometer

Axial Alignment	Orthogonality better than ±1°
Input Voltage Options	15 to 34 VDC @ 30 mA
Field Measurement Range Options	±100 µT = ±10 V
Accuracy	±0.75% of full scale (0.5% typical)
Linearity	±0.015% of full scale
Sensitivity	100 µV/nT
Scale Factor Temperature Shift	0.007% full scale/°C
Noise	≤12 pT rms/√Hz @ 1 Hz
Output Ripple	3 mV peak to peak @ 2nd harmonic
Analog Output at Zero Field	±0.025 V
Zero Shift with Temperature	±0.6 nT/°C
Susceptibility to Perming	±8 nT shift with ± 5 Gs applied
Output Impedance	332 Ω ± 5%
Frequency Response	3 dB @ >500 Hz (to >4 kHz wide band)
Over Load Recovery	±5 Gs slew <2 ms
Random Vibration	>20 G rms 20 Hz to 2 kHz
Temperature Range	-55°C to +85°C
Acceleration	>60 G
Weight	100 g
Size	3.51 cm x 3.23 cm x 8.26 cm
Connector	Chassis mounted 9 pin male "D" type

Nuvia Dynamics IMPAC data recorder system

(for navigation and geophysical data acquisition)

Functions	Integrated Multi-Parameter Airborne Console (IMPAC) with integrated dual Global Positioning System Receiver (GPS) and all necessary navigation guidance software. Inputs for geophysical sensors - portable gamma ray spectrometer GRS-10/AGRS, MMS4/MMS8 Magnetometer, Herz Totem-2A, A/D converter, temperature/humidity probe, barometric pressure probe, and laser/radar altimeter. Output for the multi-parameter PGU (Pilot Guidance Unit)
Display	Monitor display 600 x 800 pixels; customized keypad and operator keyboard. Multi-screen options for real-time viewing of all data inputs, fiducial points, flight line tracking, and GPS channels by operator
Navigation	Pilot/operator navigation guidance. Software supports preplanned survey flight plan, along survey lines, way-points, preplanned drape profile surfaces
Data Sampling	Sensor dependent
Data Synchronization	Synchronized to GPS position. Supports dual GPS
Data File	PEI Binary data format
Storage	80 GB
Software	DataView: Allows fast data verification and conversion of PEI binary data to Geosoft GBN or ASCII formats MAPConv: For survey preparation, calibration and conversion of maps, and survey plot after data acquisition MAGComp: For calculation of magnetic compensation coefficients AGRS/GRS10 Calibration: High voltage adjustment, linearity correction coefficients calculation, and communication test support AGIS: Real time data acquisition and navigation system. Displays chart/spectrum view in real-time for fast data Quality Control (QC)
Electrical	Multiple ethernet connections, RS232 serial ports, USB ports, and 16-bit differential analog input channels. It can support up to 4 magnetometer sensors
Power Requirement	24 VDC

Appendix C

Digital File Descriptions

- Magnetic Database
- Geosoft Grids
- Maps

Magnetic Database:

Abbreviations used in the GDB/XYZ files listed below:

CHANNEL	UNITS	DESCRIPTION
X_WGS84	m	UTM Easting – WGS84 Zone 17N
Y_WGS84	m	UTM Northing – WGS84 Zone 17N
Lat_deg	Decimal degree	Latitude – WGS84
Lon_deg	Decimal degree	Longitude – WGS84
Date	yyyy/mm/dd	Dates of the survey flight(s) – Local
FLT		Flight number(s)
LineNo		Line numbers
STL		Number of satellite(s)
GPSfix		1 = non-differential 2 = WAAS/SBAS differential
Heading	degree	Heading of the aircraft
GPStime	HH:MM:SS	GPS time (UTC)
Geos_m	m	Geoidal separation
XTE_m	m	Cross track error
Galt	m	GPS height – WGS84 Zone 17N (ASL)
Lalt	m	Laser altimeter readings (AGL)
DTM	m	Digital Terrain Model
Sample_Density	m	Horizontal distance in meters between adjacent measurement locations; sample frequency is 20 Hz
Speed_km_hr	km/hr	Ground speed of aircraft in km/hr
basemag	nT	Base station temporal variation data
IGRF	nT	International Geomagnetic Reference Field, IGRF-13
Declin	Decimal degree	Calculated declination of magnetic field
Inclin	Decimal degree	Calculated inclination of magnetic field
Mag1_Head	nT	Mag 1 – Diurnal, lag, and heading corrected
Mag2_Head	nT	Mag 2 – Diurnal, lag, and heading corrected
Mag3_Head	nT	Mag 3 – Diurnal, lag, and heading corrected
Mag4_Head	nT	Mag 4 - Diurnal, lag, and heading corrected
TMI	nT	Total Magnetic Intensity (average of Mag 1 and Mag 2)
RMI	nT	Residual Magnetic Intensity (average of Mag 1 and Mag 2)
ILG	nT/m	In-Line Gradient (Mag 1 and Mag 2)
XLG	nT/m	Cross-Line Gradient (Mag 1 and Mag 2)
VG	nT/m	Vertical Gradient (Mag 3 and Mag 4)
HG	nT/m	Total horizontal gradient (in-line and cross-line)
TMIge	nT	Gradient enhanced Total Magnetic Intensity
RMIge	nT	Gradient enhanced Residual Magnetic Intensity

Grids:

Blakelock, WGS 84 Datum, Zone 17N, cell size at 25 m

FILE NAME	DESCRIPTION
21146_Blakelock_DTM_25m.grd	Digital Terrain Model gridded at 25 m cell size
21146_Blakelock_TMI_25m.grd	Total Magnetic Intensity gridded at 25 m cell size
21146_Blakelock_RMI_25m.grd	Residual Magnetic Intensity gridded at 25 m cell size
21146_Blakelock_RTP_25m.grd	Reduced to Magnetic Pole of RMI gridded at 25 m cell size
21146_Blakelock_ILG_25m.grd	Measured In-Line Gradient (Mag 1 and Mag 2) gridded at 25 m cell size
21146_Blakelock_XLG_25m.grd	Measured Cross-Line Gradient (Mag 1 and Mag 2) gridded at 25 m cell size
21146_Blakelock_VG_25m.grd	Measured Vertical Gradient (Mag 3 and Mag 4) gridded at 25 m cell size
21146_Blakelock_HG_25m.grd	Total Horizontal Gradient (in-line and cross-line) gridded at 25 m cell size
21146_Blakelock_AS_25m.grd	Analytic Signal (in-line, cross-line, and vertical gradients) gridded at 25 m cell size
21146_Blakelock_TDR_25m.grd	Tilt Derivative of TMI gridded at 25 m cell size
21146_Blakelock_1VD_25m.grd	First Vertical Derivative of RTP gridded at 25 m cell size
21146_Blakelock_TMIge_25m.grd	Gradient enhanced Total Magnetic Intensity (in-line, cross-line, and vertical gradients) gridded at 25 m cell size
21146_Blakelock_RMIge_25m.grd	Gradient enhanced Residual Magnetic Intensity (in-line, cross-line, and vertical gradients) gridded at 25 m cell size
21146_Blakelock_RTPge_25m.grd	Gradient enhanced Reduced to Magnetic Pole of RMIge gridded at 25 m cell size

Maps:

Blakelock, WGS 84 Datum, Zone 17N (jpegs, pdfs, and georeferenced pdf)

Plate Number	Plate Name	FILE NAME	DESCRIPTION
1	FL	21146_Blakelock_ActualFlightLines	Plotted actual flown flight lines
2	DTM	21146_Blakelock_DTM_25m	Digital Terrain Model gridded at 25 m cell size
3	TMI_wFL	21146_Blakelock_TMI_wFL_25m	Total Magnetic Intensity gridded at 25 m cell size with actual flown flight lines
4	TMI	21146_Blakelock_TMI_25m	Total Magnetic Intensity gridded at 25 m cell size
5	RMI	21146_Blakelock_RMI_25m	Residual Magnetic Intensity gridded at 25 m cell size
6	RTP	21146_Blakelock_RTP_25m	Reduced to Magnetic Pole of RMI gridded at 25 m cell size
7	ILG	21146_Blakelock_ILG_25m	Measured In-Line Gradient gridded at 25 m cell size
8	XLG	21146_Blakelock_XLG_25m	Measured Cross-Line Gradient gridded at 25 m cell size
9	VG	21146_Blakelock_VG_25m	Measured Vertical Gradient gridded at 25 m cell size
10	HG	21146_Blakelock_HG_25m	Total Horizontal Gradient (in-line and cross-line) gridded at 25 m cell size
11	AS	21146_Blakelock_AS_25m	Analytic Signal (in-line, cross-line, and vertical gradients) gridded at 25 m cell size
12	TDR	21146_Blakelock_TDR_25m	Tilt Derivative of TMI gridded at 25 m cell size
13	1VD	21146_Blakelock_1VD_25m	First Vertical Derivative of RTP gridded at 25 m cell size
14	TMIge	21146_Blakelock_TMIge_25m	Gradient enhanced Total Magnetic Intensity gridded at 25 m cell size
15	RMIge	21146_Blakelock_RMIge_25m	Gradient enhanced Residual Magnetic Intensity gridded at 25 m cell size
16	RTPge	21146_Blakelock_RTPge_25m	Gradient enhanced Reduced to Magnetic Pole of RMIge gridded at 25 m cell size

Plates

Blakelock Survey Block

- Plate 1: Blakelock – Actual Flight Lines (FL)
- Plate 2: Blakelock – Digital Terrain Model (DTM)
- Plate 3: Blakelock – Total Magnetic Intensity with Actual Flight Lines (TMI_wFL)
- Plate 4: Blakelock – Total Magnetic Intensity (TMI)
- Plate 5: Blakelock – Residual Magnetic Intensity (RMI)
- Plate 6: Blakelock – Reduced to Magnetic Pole (RTP)
- Plate 7: Blakelock – In-Line Gradient (ILG)
- Plate 8: Blakelock – Cross-Line Gradient (XLG)
- Plate 9: Blakelock – Vertical Gradient (VG)
- Plate 10: Blakelock – Horizontal Gradient (HG)
- Plate 11: Blakelock – Analytic Signal (AS)
- Plate 12: Blakelock – Tilt Derivative (TDR)
- Plate 13: Blakelock – First Vertical Derivative (1VD) of RTP
- Plate 14: Blakelock – Gradient Enhanced Total Magnetic Intensity (TMIge)
- Plate 15: Blakelock – Gradient Enhanced Residual Magnetic Intensity (RMIge)
- Plate 16: Blakelock – Gradient Enhanced Reduced to Magnetic Pole (RTPge) of RMIge