LONGFORD EXPLORATION

Prospecting and Trenching Report

On the

Spy Property

Kluane Ranges, Whitehorse Mining District, Yukon, Canada

Located Within:
NTS Sheet 115 G02

Centered at Approximately:
Latitude 61.08° North by Longitude 138.45° West

Claims:

VM 1 - 32	YC66812 - YC66843
SPY 1 - 86	YE10801 - YE10886
SPY 87 - 126	YF47275 - YF47314
SPY 127 - 141	YE10911 - YE10925
V 1 - 28	YE69339 - YE69366

Grouping Certificate:
HWO7705

Field Work Conducted: August 7-15, 2018

Report Prepared for:
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April 5, 2019

traverse the earth

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1 Introduction

The Spy Property consists of 201 contiguous claim units covering an area in the front ranges of the Kluane Mountains centered over the Nines and Congdon Creek drainages, approximately 13 km south of Destruction Bay, Yukon Territory in the Whitehorse Mining District.

The Spy project is located approximately 267 km northwest of Whitehorse, Yukon Territory. The project area is on NTS map sheet 115 G02 and centered at a latitude of 61°08'N and a longitude of 138°45'W. The Spy claims cover an area of approximately 4000 hectares in the Whitehorse Mining District.

The 2018 field program on the Spy claims consisted of 36 mandays (August 7-15, 2018) consisting of hand trenching, rock sampling and prospecting to provide targets for future exploration and to delineate a potential drill hole location. This report was prepared as an assessment report for the Yukon Government. Claims worked on during the program were: VM: 1, 4, 8, 9, 11, 12, 13, and SPY: 45, 64, 66, 95, 96, 97, 99, 103, 104, 105, 107, 133, 135, 137, 138, 139, 140.

The north end of the Spy property remains underexplored and a $100,000 program is proposed to evaluate 3 target areas.

2 Summary of Previous Investigations

The region was first explored in the early 1900's by prospectors looking for the source of placer copper on the upper White River. One native copper deposit (Canyon City) was discovered in 1905. Limited development work uncovered several large tabular masses of native copper. In the 1930's placer miners were active on Nines, Quill, Burwash, Congdon Creeks.

The area surrounding the Spy property has been explored periodically since the early 1950's after the completion of the Alaska Highway in 1942-1945 provided access to the Nines and Congdon Creek drainages. The discovery of the Wellgreen mineral deposit on upper Quill Creek initiated an exploration boom through the Kluane Ranges focussed on rocks of the Kluane Ultramafic Belt, a 600km long trend in the southwest corner of the Yukon characterized by Cu-Ni mineralization in mafic to ultramafic Triassic aged sills and volcanic rocks.

The Kluane mafic-ultramafic suite hosts many magmatic nickel (Ni) - copper (Cu) - platinum group element (PGE) ±gold (Au) occurrences from Northern British Columbia through Yukon and into Alaska. The Kluane suite intrusions are sill-like bodies that preferentially intrude the country rock sequences at or near the contact between the Hasen Creek Formation sediments and Station Creek Formation volcanics. Many of the ultramafic sills have marginal gabbro phases at their bases and upper contacts that appear to be preferentially mineralized. The Kluane Belt Ni-Cu-PGE occurrences are particularly enriched in the rarer platinum group elements osmium, iridium, ruthenium and rhodium.

The best known deposit and the sole past producer in the belt is the Wellgreen Deposit (Minfile 15G024). The Wellgreen deposit, 47 km northwest of the Spy property, was mined between 1972 and 1973, producing 171,652 tonnes with an average grade of 2.23% Ni, 1.39% Cu, 0.073% Co and 2.15 grams/tonne Pt and Pd, then shut down due to weak metal prices, excessive dilution and erratic distribution. The deposit, now 100% owned by Nickel Creek Platinum Ltd. contains Inferred Mineral Resource of 846 million tonnes at 1.57 g/t Pt Eq. or 0.41% Ni Eq, both at a 0.57 g/t Pt Eq or 0.15% Ni Eq cut off (Simpson, 2014).

Two MINFILE occurrences are located in the area of the Spy claims. The Congdon, (Minfile Number 115G 003) and Bock, (Minfile Number 115G 084), as documented by the Yukon Geological Survey *(Deklerk, 2009)*. A summary of previous work is listed in Table 2.1.

Table 2.1 Previous work on the SPY property (after James D., 2017).

Year	Work	Results
1953	Conwest stake the RAM claims over headwaters of Halfbreed and Lewis Creeks. Program of detailed geological mapping and prospecting.	Several minor showings of copper-nickel and copper found.
1953-54	Staked as Rawhide, Eagle, etc. in Apr-Oct/53 by P. Versluce, H. Versluce and C. Gibbons, who optioned the property in Apr/54 to R. Hide.	
1956	Restaked as Ram cl 1-6 (72751) in Aug/56 by M. McCallion	
1961	Restaked as Eva cl 1-4 (77040) in Oct/61 by D. Carnegie	

Year	Work	Results
1967	Gypsum reported by GSC in 3 localities	Southernmost occurrence staked by AGIP in 1983
1972-73	Restaked as Spy cl 1-12 in Jul/72 by Nickel Syndicate (Canadian Superior Exploration Ltd, Aquitaine, Home Oil Ltd and Getty Mines Ltd). Geological mapping and geochemical sampling.	Discovery of chalcopyrite and nickeliferous pyrrhotite in gabbro at the base of the main (Spy) peridotite sill (*McLoughlin and Vincent, 1973*).
1986-87	Restaked in Aug/86 by Polestar Exploration Inc, and as Tony cl (YB5915) in Jul/87 by Walhalla Exploration Ltd, which carried out prospecting, mapping and sampling in 1988.	
1988-89	Polestar conducted geochemical surveying on the I claims in 1988 and optioned 50% of its interest to Hunter Gold Inc in Jan/89.	Outlined four gold and four platinum and palladium anomalies with values up to 920 ppb Au, 158 ppb Pt and 277 ppb Pd over the Spy ultramafic sill (*Giroux and Montgomery, 1988*)
1993	R.H.W. Temple staked the Ashley cl (YB37999) on Nines creek in Jun/93.	
1994-95	In Oct/94 Inco Ltd staked a block of 508 Klu claims. The claim block covered Minfile Occurrences #115G 003, 084, 098 and 099. Inco staked a second block of 18 Klu claims north of Congdon Creek in Aug/95.	
1994-97	Geological mapping, lithogeochemical, silt, heavy mineral sampling and soil sampling in 1994 and 1995 (*Bell, 1996*), an airborne EM and magnetics survey in 1996 (*McGowan, 1996*), followed up by geological mapping, prospecting and ground geophysical surveying in 1997 (*Hattie, 1997*), by Inco Ltd.	Delineated sulphide showings, with highly anomalous PGE grades and significant Ni and Cu, over a strike of 3.6 km along the base of the 6 km long Spy Sill. Maximum values from the gabbro at the lower contact include 3.1% Ni, 2.8% Cu, 0.2% Co, 3.1 g/t Pt, 1.4 g/t Pd and 1.0 g/t Au from grab samples.
2000	Santoy Resources Ltd optioned the property from Inco and carried out geological mapping, chip sampling, prospecting, silt and soil sampling.	The program outlined massive and disseminated Ni, Cu and PGE mineralization associated with a 950m strike length of the Spy sill (*Tulk, 2001*).
2005	Klu claims were acquired by Resolve Ventures. Re-processing of the 1996 airborne geophysics and a brief property visit sampling previously identified geophysical features was completed. The majority of the claim block lapsed in 2007.	Recommends drilling on the Spy sill, but more information needed to target holes, and blast trenching to uncover the basal contact. (*Liard and Lavigne, 2006*)
2008	Staked by Tom Morgan as VM claims, with V claims added. Reconnaissance program in 2008. Brief mapping and prospecting program in 2011.(*Pautler, 2012*)	Recommends deep auger sampling along contact areas and exposing fresh contact material by trenching *(Morgan, 2009).*
2013	Spy claims optioned by Ashburton Ventures	Geophysical review and petrophysical study.
2016	Prospecting, sampling, XRF analysis, 18.5 mandays of work using helicopter access in September, 2016.	Recommends drone magnetic survey, blast trenching, chip sampling, prospecting and sampling followed by diamond drilling.
2017	Reprocessing of airborne magnetic data for NTS 115G by Aurora Geosciences, Open File 2017-36	
2017	Longford Exploration Services Ltd. completed one day of sampling and assessment work.	

Summarized form the assessment report by James D., 2017:

> The oldest rocks exposed on the Spy project are Pennsylvanian to Lower Permian clastic sedimentary rocks of the Hasen Creek Formation and volcanic rocks of the Station Creek Formation. Both formations are intruded by the Upper Triassic Kluane mafic-ultramafic suite including the Spy sill, which has been the target for exploration since it was discovered in 1972. Maple Creek gabbros intrude the Station Creek and Hasen Creek formations and the Kluane intrusions. The Hasen Creek Formation is overlain to the southwest by the Triassic Nikolai Group volcanic rocks, Triassic to Cretaceous clastic rocks of the Tatamagouche succession, Tertiary Amphitheatre Group sedimentary rocks and Wrangell Lavas.
>
> The Spy sill is located in the southern half of the project and extends for 6-8 kilometres along a northwest trend. The sill is 75 to 100 metres thick and dip varies from 30 to 45o to vertical. At the north end the sill intersects the Bock's Brook mafic-ultramafic intrusions. Ni-Cu-PGE mineralization on the property has historically been associated with the basal marginal gabbro phase of the Spy Sill. Intermittent sulphide showings have been found over a strike of 3.6 km along the base of the Spy sill, of which a 1.5km exposure on the Spy claims has received the most work. These sulphide showings have highly anomalous PGE grades along with significant Ni and Cu.
>
> Recent work at the at the Wellgreen deposit have shifted attention from narrow, rich basal sulphides to bulk tonnage deposits contained in the entire sill and the adjacent country rock. Previous sampling programs at Spy did not include a large component of consistent chip samples across the sill and country rock. Most of the samples are grab samples with no length and work was focused on exploring and evaluating mineralization at the basal contact of the Spy sill and underlying footwall siltstone of the Hasen Creek formation.
>
> The Spy sill is close to being ready for a drill program. The Ni-Cu-PGE values and the consistency of mineralization over the 1.5km exposure are sufficient, but the area needs more ground work to delineate drill targets. The bulk of work should take place on the Spy sill to delineate drill targets, and other work would include prospecting and investigation into prospective areas on the property.

3 Property Description and Location

3.1 Location

The Spy Property is located in the Kluane Ranges of the southwestern Yukon, 13km south of the hamlet of Destruction Bay and 250km northwest of Whitehorse (Figure 3.1). The project area is on NTS map sheet 115 G02 and centered at a latitude of 61°08'N and a longitude of 138°45'W. Whitehorse, population 25,000, is well equipped to support the mining industry with general service as well as an available skilled labour force, transportation (the Alaska Highway, Whitehorse airport) and abundant hydroelectric grid power. The property is located within the Kluane & White River First Nations territorial lands.

3.2 Mineral Titles

Group Ten Metals Inc. owns 100% of the Spy Property as of December 7, 2017 when the claims owned by Bill Harris were transferred to Group Ten (RW04568). Prior to this transfer, the claims were grouped under certificate 638 The SPY 127 – 141 claims were added during a day of staking on August 3, 2017. An application for a certificate of work was filed in Whitehorse on August 17, 2018. A mineral tenure summary for the Spy Property is given in Table 3.1 and a map is given in Figure 3.2.

Table 3.1 Mineral tenure summary

Claims	Grant Number	No. of Claims	Registered owner	Recording Date	Expiry Date
VM 1-32	YC66812 – YC66843	32	Group Ten Metals Inc.	21/02/2008	01/04/2028
V 1-28	YE69339 – YE69366	28	Group Ten Metals Inc.	18/08/2011	01/04/2026
SPY 1-80	YE10801 – YE10880	80	Group Ten Metals Inc.	01/04/2015	01/04/2027
SPY 81-86	YE10881 – YE10886	6	Group Ten Metals Inc.	01/04/2015	01/04/2028
SPY 87-126	YF47275 – YF47314	40	Group Ten Metals Inc.	26/11/2015	01/04/2024
SPY 127-141	YE10911 - YE10925	15	Group Ten Metals Inc.	11/08/2017	01/04/2023
Total		**201**			

3.3 Reliance on Other Experts

The author relied on information, maps, geochemical analysis results and interpretations produced by other experts in the fields of geology or geophysics during the preparation of this report.

3.4 Permit

A Mining Land Use (MLU) Permit is required to do exploration work on claims in Yukon except for low impact, grassroots activities that are classified as Class 1 activities as defined in the Quartz Mining Act. Group Ten applied for a Class 3 permit (LQ00441), which was granted in July 5, 2016 and is in effect until July 4, 2021. An amendment to this permit was filed in the fall of 2018 to add the 15 claims staked in 2017. Group Ten have met with the Kluane First Nation council and staff to keep them apprised of exploration activities in their traditional territory.

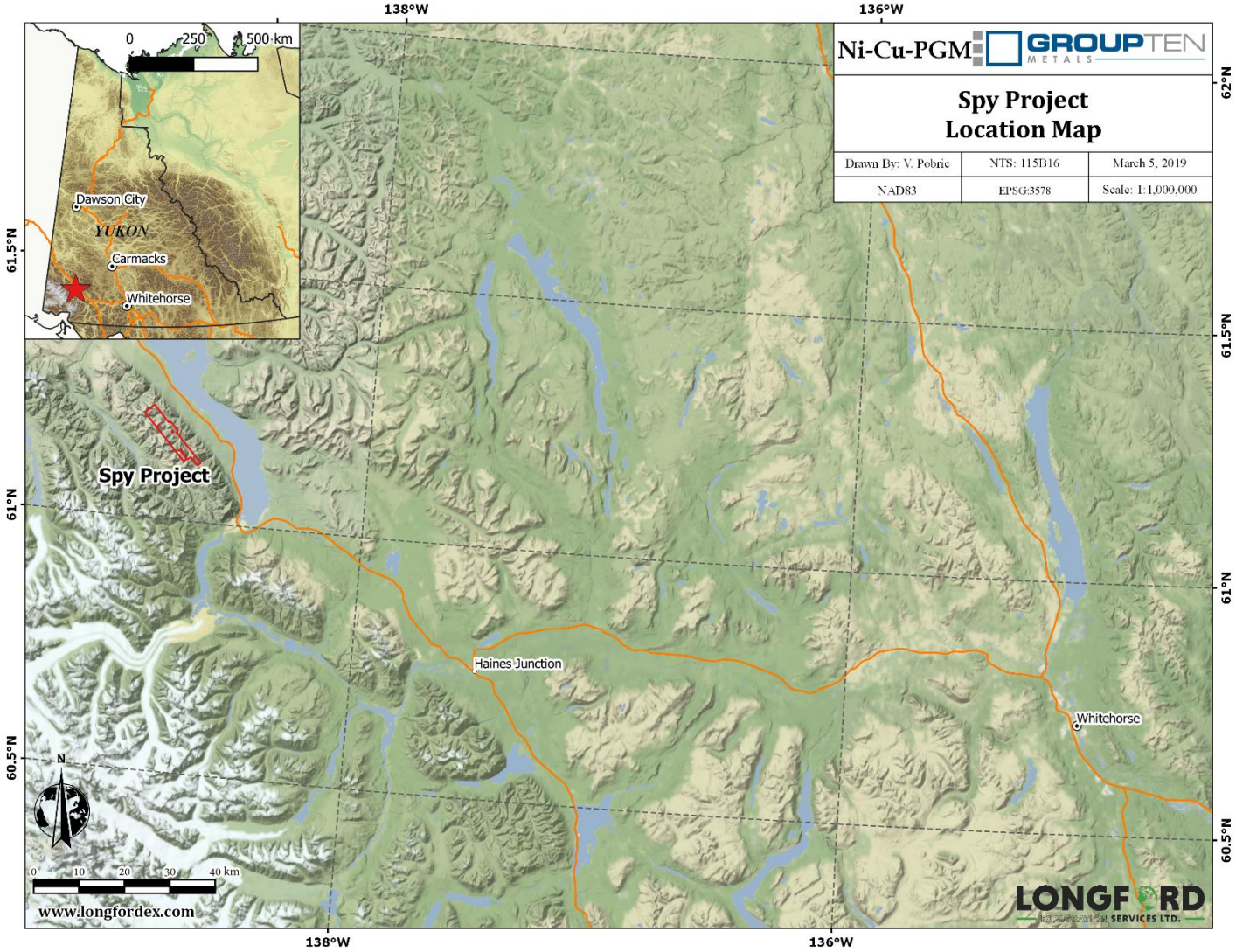

Figure 3.1 Location map of the Spy property.

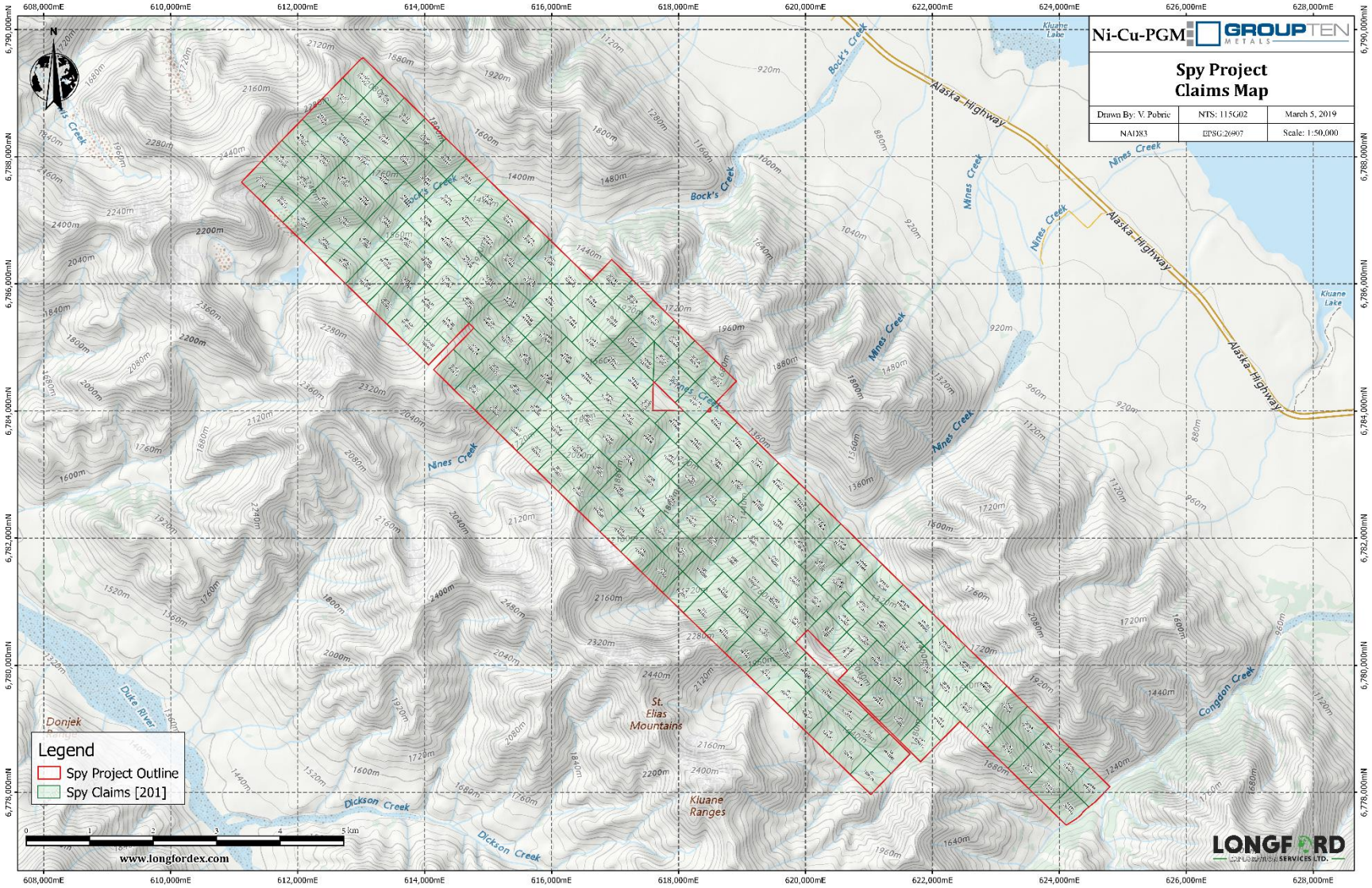

Figure 3.2 Claim map for the Spy property.

3.5 Property Legal Status

The Yukon Mining Recorder website (http://www.yukonminingrecorder.ca/) confirms that all claims of the Property as described in Table 3.1 Mineral tenure summary were in good standing at the date of this report and that no legal encumbrances were registered with the Yukon Mining Recorder against the titles at that date. The author makes no assertion with regard to the legal status of the property. The property has not been legally surveyed to date and no requirement to do so has existed. There are no other royalties, back-in rights, environmental liabilities, or other known risks to undertake exploration.

4 Accessibility, Infrastructure and Climate

4.1 Accessibility

The Spy claims are located 13 km south of Mile 1110 on the Alaska Highway. The village of Destruction Bay is 13 km to the north and the Yukon capital Whitehorse lies 275 km southeast of the property. Gravel roads up Nines, Bocks and Congdon Creeks provide foot access to lower elevations on the claims while higher elevations require a helicopter. Road distances from the property to communities are summarized in the following table:

Table 4.1 Driving distances to the Property.

Location	Description	Road Distance
Whitehorse (pop. 25,000)	Nearest city with services	257 km
Haines Junction	Village	85 km
Destruction Bay	Village	13 km

4.2 Climate

The Nines Creek area features a northern interior climate with long cold winters and low annual precipitation. The exploration season extends from early June until late September with occasional thunderstorms and a few intervals of warm dry conditions.

4.3 Local Resources

General and skilled labour is readily available in the City of Whitehorse (population 25,000). The city, 310km by road from the project area, offers year-round charter and schedule fixed wing service (to Vancouver, Edmonton & Calgary). Locally Destruction Bay has a nursing station, fuel, lodging, restaurants, and repair services. Cellular service covers higher elevation portions of the project area. The Kluane first nation is based in Burwash Landing.

4.4 Infrastructure

Charter helicopter and fixed wing service are available from Haines Junction or Whitehorse. Commercial accommodation, fuel and meals are available in Destruction Bay, and limited support services and casual labour pool is available from Burwash Landing.

4.5 Topography and Vegetation

The project area is in the front ranges of the Kluane Mountains southwest of the Shakwak Valley and Kluane Lake. The rocky ridges of the front ranges are deeply incised by the extensive drainages of Nines and Congdon Creeks. Upland areas can be fairly steep featuring talus and outcrop up to 2400m while the valley floor is at 1400m elevation featuring grassy slopes with sparse spruce forest, glacial moraines and fans of gravel and boulders along creek gullies (Figure 4.1). The vegetation on the property is light with spotty black spruce, white spruce on south facing exposures and alder willow with sub-alpine flora found at and above the timberline.

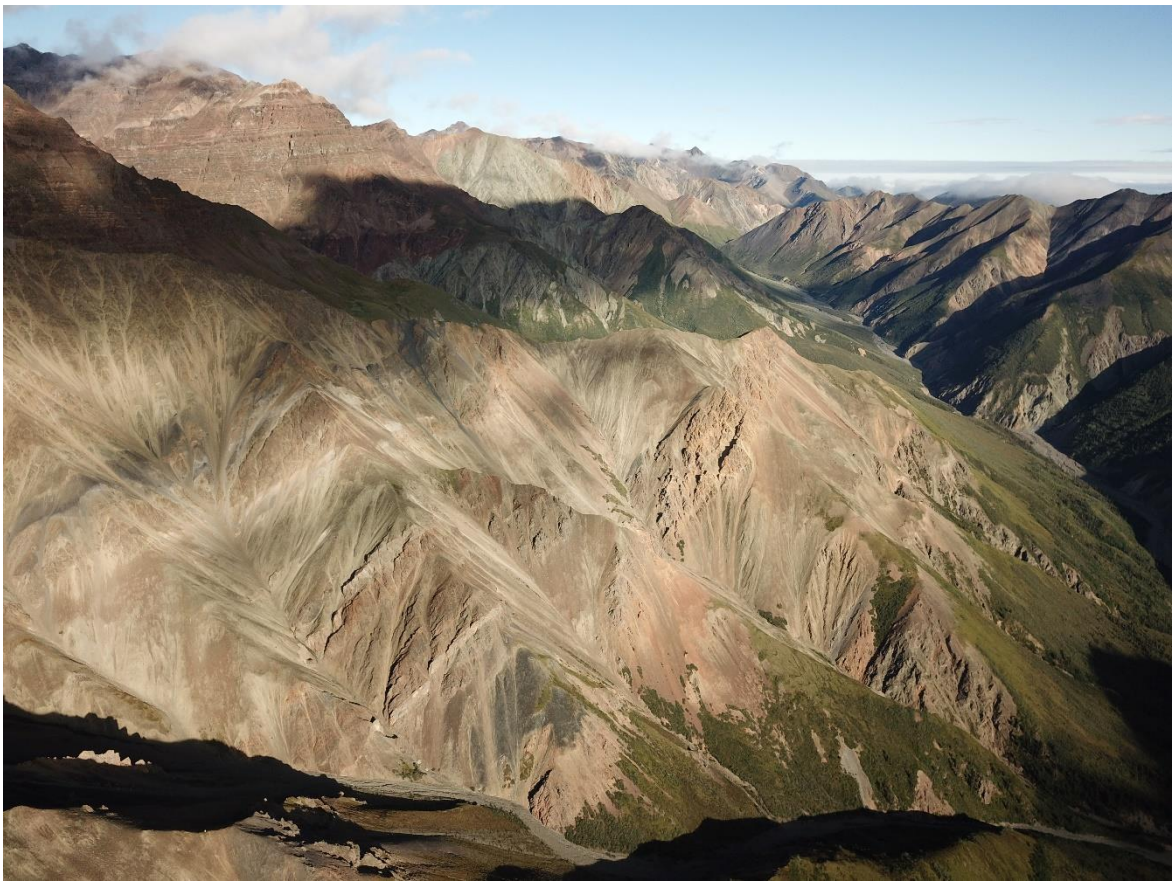

Figure 4.1 Photo looking northwest showing topography at Nines Creek.

5 Geological Setting and Mineralization

5.1 Regional Geology

The Spy property is located in the Kluane Ranges, underlain by mafic volcanic rocks of island arc and ocean floor genesis (Wrangellia Terrane) with thick assemblages of overlying oceanic sedimentary rocks that range in age from 400 to 220 million years old (Figure 5.1).

The Wrangellian Terrane is characterized by widespread Triassic flood basalts and complementary mafic intrusive rocks which are believed to have originated by in a mantle plume which erupted onto the extinct Pennsylvanian and Permian Sicker-Skolai island arc (Carne, R. 2001). The Upper Triassic Nikolai Formation forms a discontinuous linear belt extending across southwest Yukon and is characterized by basal conglomerate and/or volcanic breccia, amygdaloidal basalt and andesitic flows and local tuff, breccia, shale and limestone. The Nikolai Formation was initially mapped in the area by Kindle (1976) as partly serpentinized peridotite, talc schist and green serpentine schist of Lower Cretaceous or later age (Figure 5.2).

The SPY property lies within the Kluane Ultramafic Belt, a 600km long belt of rocks in the southwest corner of the Yukon that are characterized by mineralized mafic to ultramafic Triassic aged sills known as the Kluane mafic-ultramafic suite. The Kluane Ultramafic Belt extends from northern BC into Alaska and hosts magmatic Ni-Cu-PGE (+/- Au) deposits and occurrences. It is the second largest Ni-Cu-PGE mafic-ultramafic belt in North America after the Circum-Superior Belt in central Canada (Hulbert, 1997).

Topographically, the Kluane Ultramafic Belt is in the Kluane Ranges which are foothills to the St. Elias Mountains that range along the Yukon-Alaska border. The ultramafic rocks are distinctively coloured (glossy black to dark brown or light green to pale grey when altered) and can be seen as distinctive linear features. The dominant structural direction, controlled by the major Duke River and Denali faults, ranges in orientation from 290^{o} to 310^{o}. Movement of Wrangellia northwards along the Denali Fault began in the Tertiary and continues today. The fault is steeply dipping and the order of displacement may be 100s of kilometres. The Duke River Fault is also near vertical and joins the Denali Fault southwest of Haines Junction. Between the major faults small scale faulting is common and faults increase in number to the southeast. Major fold axes are oriented in the same dominant northwest direction. The folds are tight and inclined to the southwest. A later folding episode has refolded the strata at right angles to the dominant direction along northeast axes (Carne, 2001).

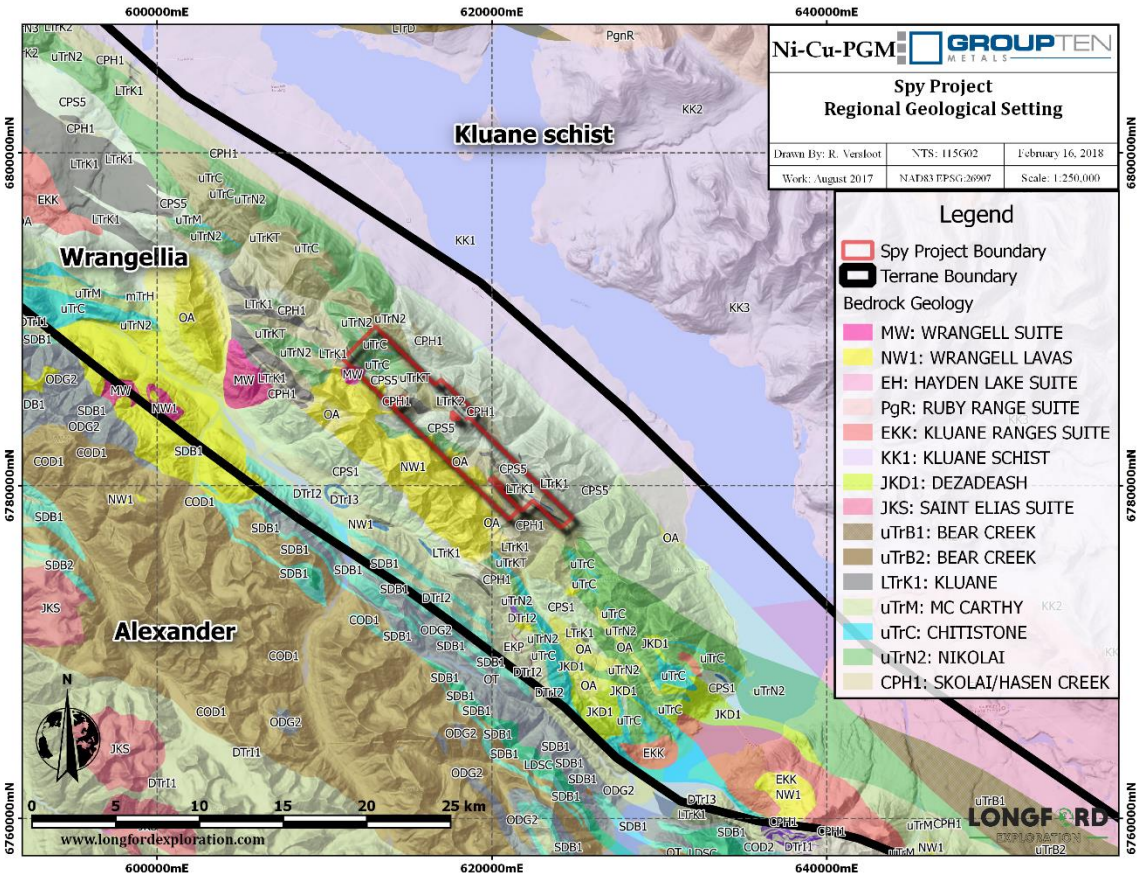

Figure 5.1 Regional geological setting of the Spy Project.

The Kluane mafic-ultramafic sills are elongated cumulate bodies than are postulated to be the crystallized magma chambers that fed the overlying Triassic Nikolai basalts. The sills are layered, with a thin rim of gabbro around the margins grading into an ultramafic core of peridotite, anorthosite and dunite (Hulbert, 1997). The width of the sills ranges from less than 10 to 600m and they can cover up to 20 km in strike length. The sills intrude the older Pennsylvanian to Permian Skolai Group near the contact between the lower Station Creek Formation and the overlying Hasen Creek formation. Most of the sills are poorly exposed and some are deformed and altered by faults. Nickel and Copper values increase from east to west along the belt. Compared to other Ni-Cu-PGE deposits worldwide, the belt is known for having high concentrations of PGEs such as Osmium, Iridium, Ruthenium and Rhodium and high Platinum to Palladium ratio (James, 2016).

The Skolai Group contains the oldest rocks in the ultramafic belt, the Station Creek Formation a sequence of volcanic and volcaniclastics rocks with increasing sedimentary content in the upper half. In the upper 400m of the Station Creek formation, shale siltstone, limestone and argillite are interbedded with fine grained tuff layers that decrease in abundance upwards. The contact with the overlying Hasen Creek Formation is gradual and is placed at the top of the tuff layers. The Hasen Creek Formation is a subaqueous sequence consisting of shale, cherty argillite, chert and siltstone grading up into limestone, conglomerate, greywacke and sandstone.

Sill-like gabbroic bodies of the Maple Creek Gabbro intrude the Hasen Creek Formation. They are generally found higher in the sequence than the ultramafic sills and may be feeders to the Nikolai volcanics. Maple Creek gabbros can be distinguished from Kluane gabbros because they do not grade into peridotite or dunite, can be finer grained and may display columnar jointing. They also are not associated with Ni-Cu-PGE mineralization (James, 2016).

The upper Triassic Nikolai Group is widespread consisting of basalt flows and pillow lavas with local interbedded limestone, unconformably overlying the Hasen Creek formation. The likely sources of the Nikolai volcanics are magma chambers represented by the Kluane ultramafic sills and feeders represented by the Maple Creek Gabbro.

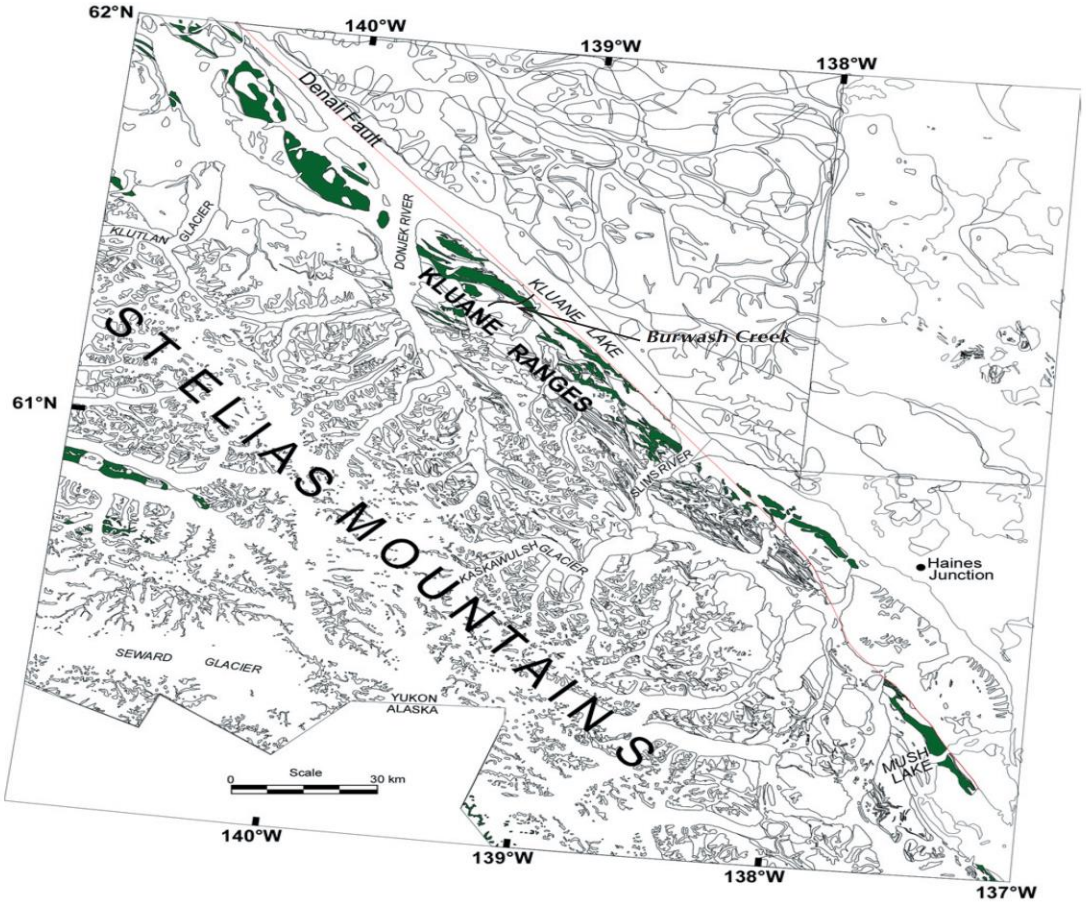

Figure 5.2 SW Yukon Exposure of Flood Basalt of the Triassic Nikolai Formation (from Greene, A.R., S. Coates, J.S., Weiss, D., and Israel, S., 2005.)

Table 5.1 Table of formations (D. James, 2016.

Q – Quaternary	Unconsolidated alluvium, colluvium and glacial deposits.
NW1 Miocene to Pliocene Wrangell Lavas	Extensive volcanic unit, volumetrically significant but not associated with mineralization. Suture unit, joining Wrangellia and Alexander Terranes. Can form thick piles 400-1000m thick. Rusty red, brown phyric and non-phyric basalt and andesite flows, interbedded with felsic tuff, volcanic sandstone and conglomerate. Associated granodiorite and diorite intrusions.
MW Mid to late Miocene Wrangell Suite	Intrusions of granodiorite and diorite with lesser gabbro. Associated subvolcanic felsic intrusions.
OA Paleocene to Oligocene Amphitheatre Formation	Tertiary freshwater clastic rocks 60 to 575 metres thick with a limited occurrence. Clastic rocks, minor carbonaceous shale and thin coal seams, mostly fluvial and lacustrine deposits.
uTrKT upper Triassic Tatamagouche Formation	Dark to light grey phyllite, medium to coarse grained sandstone, minor greywacke and pebble to cobble conglomerate
LTrK late Triassic Kluane Ultramafic Suite.	Preferentially intrudes at or near the Hasen Creek-Station Creek contact. LTrK2 – Maple Creek Gabbro; fine to coarse grained gabbro sills and dykes. LTrK1 - peridotite, dunite and clinopyroxenite, layered intrusions, locally with gabbroic chilled margins.
uTrC upper Triassic Chitistone Formation	Thin interbedded argillaceous limestone and argillite; massive limestone, limestone breccia, well-bedded limestone; gypsum and anhydrite.
uTrN upper Triassic Nikolai Formation	uTrN2 – dark green to maroon amygdaloidal basalt and basaltic andesite flows, locally pyroxene and plagioclase phyric. uTrN1 – basal conglomerate.
CP Pennsylvanian to lower Permian Skolai Group	CPH1- Hasen Creek Formation – dark to light grey/brown siltstone turbidites, siliceous argillite, chert and minor volcaniclastics sandstone and tuffs CPH2- Hasen Creek formation - buff to gray bioclastic limestone, local cherty interbeds CPS5 – Station Creek Formation - Dark to light green volcanic breccia, crystal tuff and tuffaceous sandstone; breccia clasts consist of basalt within tuffaceous matrix; minor basalt flow. CPS1 – undivided Skolai Group

5.2 Regional Mineralization

There are four main types of Ni-Cu-PGE mineralization in the Kluane Ultramafic Belt found in all the mineralized sills from southeast Alaska to northern B.C. (Hulbert, 1997):

1. Basal accumulations of massive sulphides
2. Disseminated sulphides at the gabbro-ultramafic contact in each intrusion
3. PGE and Au rich zones associated with hydrothermal quartz-carbonate alteration at the edges of the sills and extending into the country rock.
4. Disseminated and lesser net textured or massive sulphides in the ultramafic core of each sill.

Other types of mineralization have a limited range (Hulbert, 1997):

1. Skarn ores developed in Permian carbonates at Wellgreen.
2. Ni-rich ores within the footwall in the White River sill.
3. Cu-rich mineralization in shear zones and deformed intervals of Nikolai basalt.
4. Cyprus type volcanogenic massive sulphide (VMS) mineralization in mafic volcanic rocks.

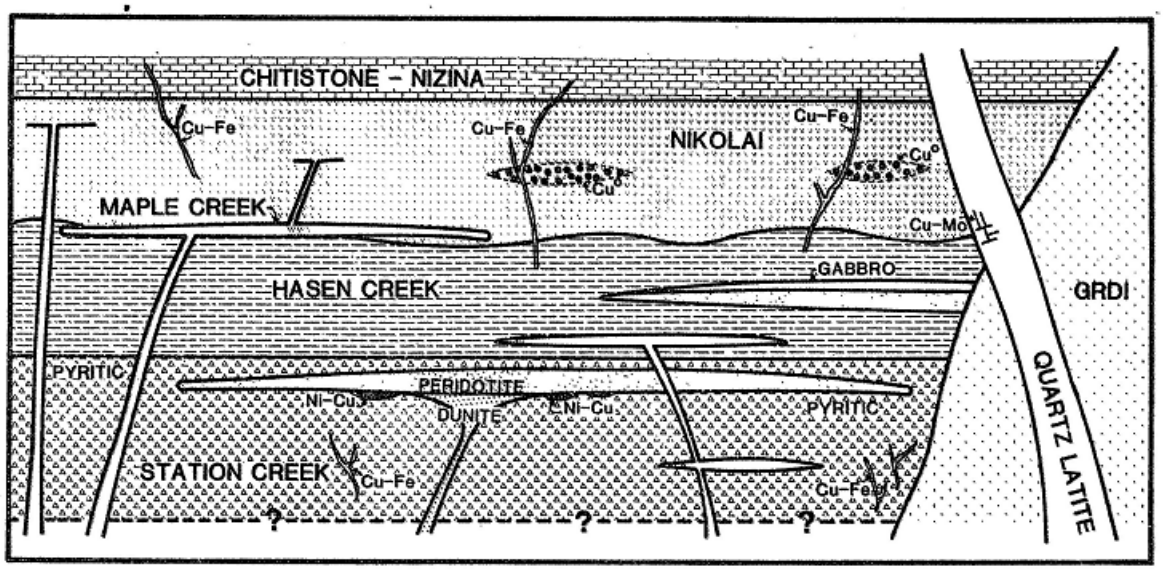

Figure 5.3 Cross section of mineral occurrences in the Kluane Ranges (from Campbell W., 1981).

The most common sulphide minerals are pyrrhotite, pyrite, pentlandite and chalcopyrite; the common oxide minerals are magnetite and ilmenite. Figure 5.3 below illustrates a typical, simplified ultramafic sill. The best known deposit and the sole producer in the belt is Wellgreen Platinum's Wellgreen Deposit (Minfile 115G024). At Wellgreen the platinum group metals combine with As, Sb, Te, Bi, Ni, S, Co and Fe to form minerals and alloys. Sperrylite ($PtAs_2$) and Sudburyite (PdSb) are two of the more abundant minerals (Hulbert, 1997).

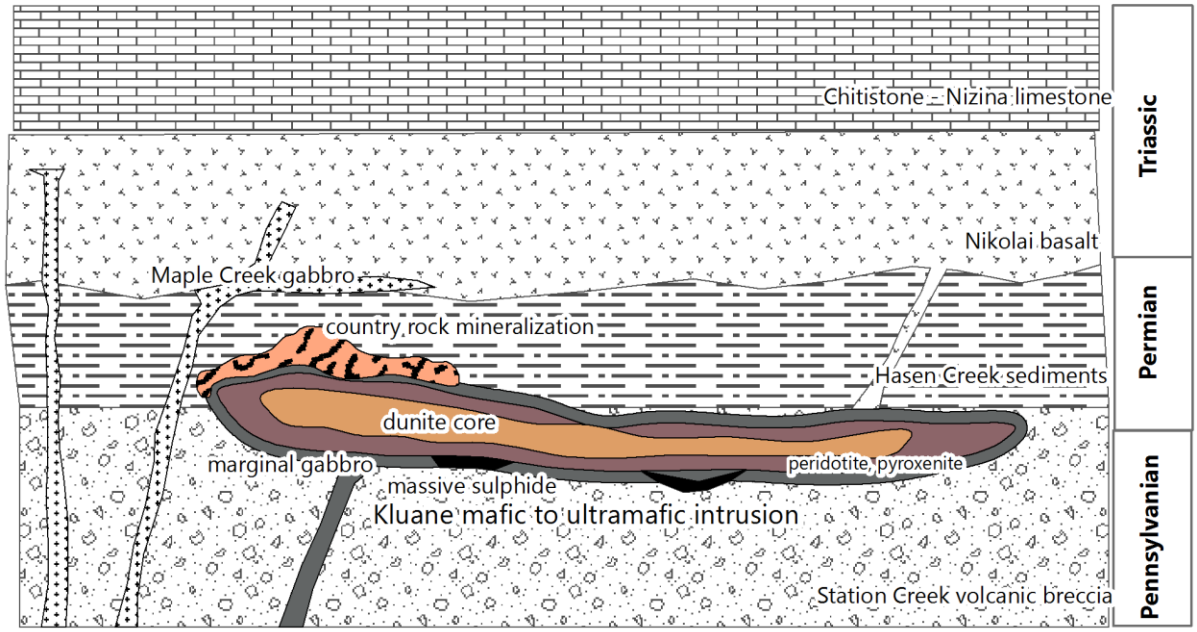

Figure 5.4 Deposit model for the Kluane Belt (modified from Hulbert, 1997).

5.3 Property Geology

The property geology and structure has been summarized by James, D., 2017 from previous investigations, see Figure 5.5:

> The oldest rocks exposed on the Spy property are clastic sedimentary rocks of the Hasen Creek Formation and Station Creek Formation, both Pennsylvanian to Lower Permian Skolai Group and exposed along the length of the claim block. The strata trend northwest and dip at an average of 40° southwest. The Hasen Creek Formation is intruded by Late Triassic mafic to ultramafic sills of the Kluane mafic-ultramafic suite, including the Spy sill. A significant band of limestone within the Hasen Creek Formation is mapped below the Spy sill and additional similar limestone bands occur above the sill. Maple Creek gabbros intrude the Station Creek formation and ultramafic rocks.
>
> The Hasen Creek Formation is overlain by the Triassic Nikolai Group volcanic rocks, Jurassic to Cretaceous clastic rocks of the Tatamagouche succession, Tertiary Amphitheatre Group sedimentary rocks and Wrangell Lavas. The Wrangell Lavas which dominate in the southwest of the property consist of rusty, red-brown basaltic andesite flows, interbedded with felsic tuff. On the northwestern edge of the project is the semi-circular Bock's Brook stock, a Wrangell Suite intrusion of diorite to gabbro composition.
>
> The Spy sill is in the southern half of the claim block and intrudes Hasen Creek siltstone for 6-8 kilometres along a northwest trend, extending off the property at the south end. The sill is 75 to 100 metres thick. Dip is variable, interpretation of magnetic data suggest it ranges from 30 to 45° at the Spy Showing to vertical at the southeast and

northwest ends (Bell, 1996). Contacts with the country rock are sharp and often sheared, accompanied by local hornfelsing, silicification and sulphide mineralization. At the north end the sill intersects the Bock's Brook mafic-ultramafic intrusions. The northern 4 km of sill are more diffuse than the southern portion and are dominated by gabbro.

The Spy sill is composed of peridotite, gabbro and anorthositic gabbro members, which form sub-parallel moderately dipping units. Peridotite forms the central phase of the sill and measures approximately 35 to 60 metres in thickness. It is generally unserpentinized, fine to medium grained, black, and feldspathic. Marginal gabbro, between 2 to 50 metres thick, occurs at the top and base of the peridotite unit and varies in composition between gabbro and melagabbro. The contact between the marginal gabbro and the peridotite is generally gradational over several metres. Both the marginal gabbro and peridotite units are intruded by an anorthosite to anorthositic gabbro which occurs locally as a 10 to 15 m thick, concordant to cross-cutting sill with gabbroic margins. The anorthositic gabbro is light grey, fine to medium grained and generally contains 2 to 4% finely disseminated pyrite and pyrrhotite. Thin anorthosite seams within peridotite have also been noted south of the Spy showing and highlight small scale block faulting.

Maple Creek gabbro sills intrude the Spy sill and occur stratigraphically above and below it. The most continuous Maple Creek gabbro sill occurs 230 metres down-section from the base of the peridotite and is up to 160 metres thick. This sill is intermittently exposed over a 10-kilometre strike. The northwestern end of the Spy sill is cut by a 200-metre thick section of Maple Creek gabbro. Elsewhere, smaller bodies of Maple Creek gabbro also cut and form lens shaped bodies within the peridotite. Maple Creek gabbros are typically barren of mineralization.

The Bock's Brook intrusions are in the northern half of the claim block and are only partly covered by Spy claims. The southernmost intrusion is the largest peridotite intrusion on the property, measuring 500m at its thickest extent. The thickness may be exaggerated by repeated fault slices, but there appears to be at least one smaller sill below the main sill. The peridotite is serpentinized and fault bounded along the northern contact.

The Lewis intrusions are located at the northwest end of the claim block. There are three intrusions of relatively unserpentinized peridotite to pyroxenite composition intruding Hasen Creek Formation sediments. Only part of one intrusion is covered by the Spy claims. They are in an extremely rugged area which has made exploration difficult.

All the above units are locally overlain by Quaternary unconsolidated glacial, glaciofluvial and glaciolacustrine deposits and ice.

Quaternary material in the valley bottoms of Nines Creek, Bock's Brook and Lewis Creek obscures much of the structure, but it appears to consist of several fault bounded slices of folded Paleozoic and Mesozoic strata, overlain by gently dipping Tertiary rocks. Bounding faults trend northwest, parallel to the regional Denali Fault

and appear to have a steep dip. Axial planes of folds are also northwest with a steep dip; axes are assumed to be near horizontal.

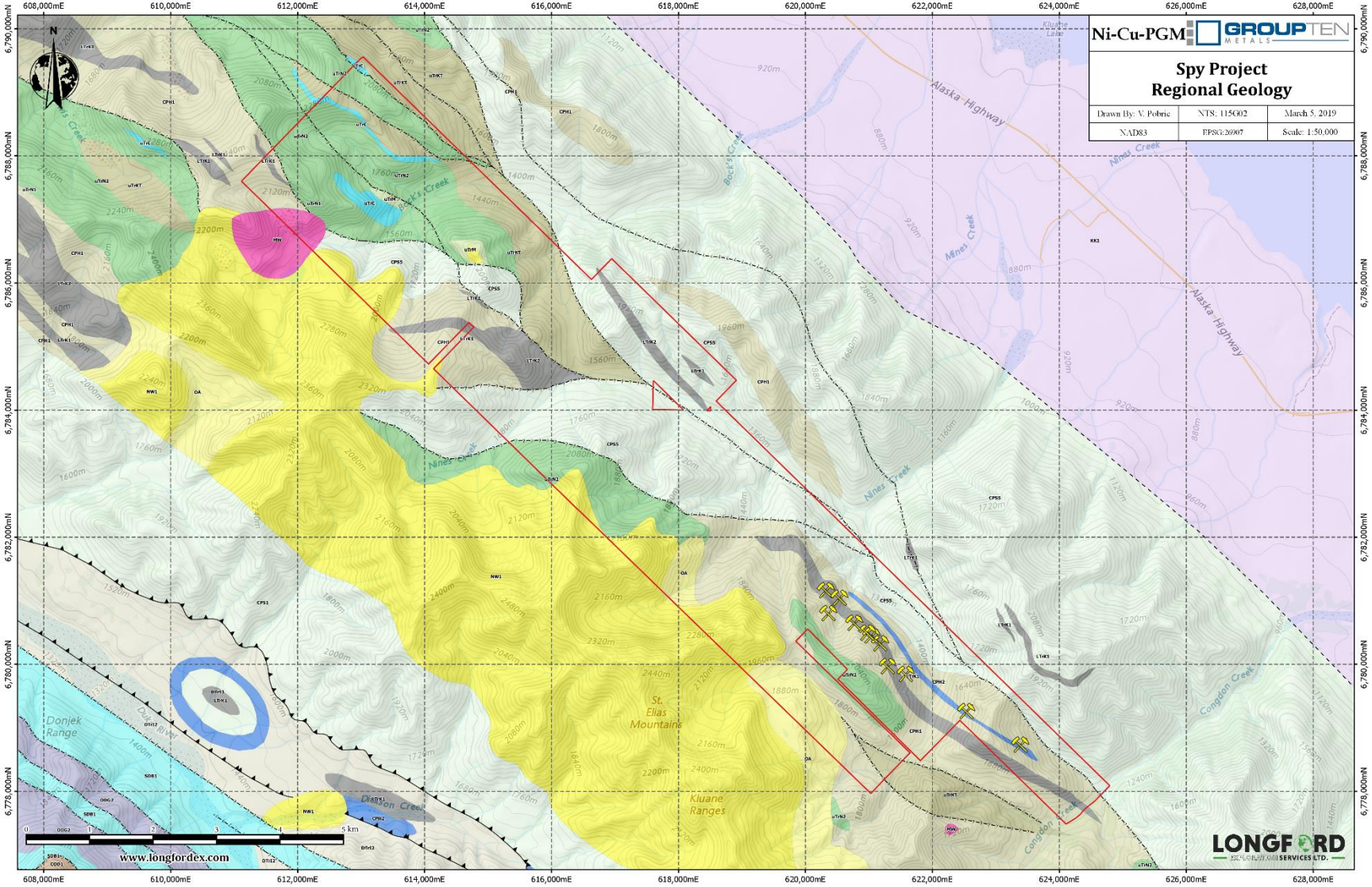

Figure 5.5 Spy property geology.

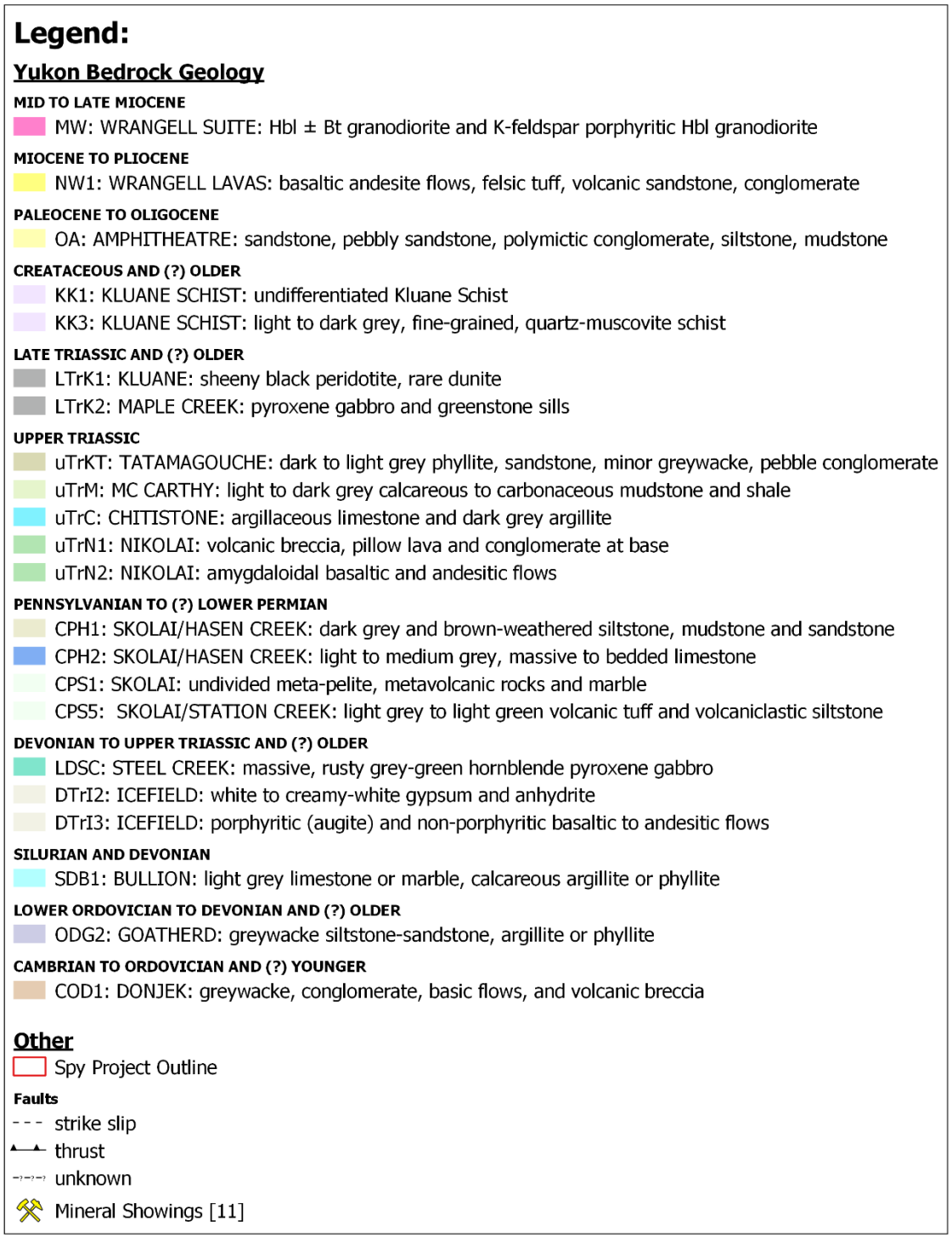

Figure 5.6 Spy property geology legend.

5.4 Mineralization

Mineral occurrences on the SPY property have been summarized by James, D., 2017 as follows:

> "The Spy property covers the Congdon/Spy 115G003 mineral occurrence and two of three locations for the Bock 115G084 minfile occurrence as documented by the Yukon Geological Survey. The Congdon/Spy occurrence is the Spy Sill and the Bock occurrences were originally gypsum showings, but have been reclassified as Ni-Cu-PGE (Au) showings.
>
> Ni-Cu-PGE (Au) mineralization is associated with the basal marginal gabbro phase of the Spy Sill, a northwest trending sill which contains the original Spy Showing. Intermittent sulphide showings occur over a strike of 4 km along the base of the 6-8 km long sill. These sulphide showings have anomalous PGE grades along with significant Ni and Cu.
>
> Most Ni-Cu-PGE mineralization is associated with the basal contact of the Spy Sill and the footwall Hasen Creek siltstone, but disseminated lower grade mineralization is also found throughout the entire sill and into the country rock on either side. Numerous mineral occurrences have established the presence of both narrow massive sulphide lenses and disseminated mineralization within the contact zone. Host rocks include gabbro and peridotite phases of the sill as well as footwall siltstone. Several showings of massive and disseminated mineralization occur intermittently over a strike length of 1.5km between the 99 and Sweet 16 showings. Between Nines Creek and Congdon Creek, the Solo and South Spy showings suggest that mineralization continues at the south end, but steep terrain makes access difficult and this area has not received much work. A description of the Spy sill showings follows, listed in order from northwest to southeast. See figure 6.5 for the locations of showings. No significant Ni-Cu-PGE showings on Group Ten claims have been found at intrusions other than the Spy Sill although only a limited amount of work has been done elsewhere."

Named mineral occurrences described by James, D., 2017 are listed below in Table 5.2 (see Figure 5.5 for showing locations):

Table 5.2 Spy mineral occurrences (after James, D., 2017).

Occurrence	Location UTM	Description
SPY	621100E 6780350N	The Spy showing consists of massive chalcopyrite-pyrrhotite lenses, up to 2.0 by 0.25 metres, occurring in sediments at the base of the Spy sill. The host siltstone is weakly altered, but highly fractured with chalcopyrite-pyrrhotite mineralization occurring along the fractures. Inco took a grab sample that returned spectacular values of 75.8 g/t Pt, 7.9 g/t Pd, 7.0 g/t Au, 10.4% Cu and 2.6% Ni, but this sample has not been replicated. Santoy's best sample returned 7.07 g/t Pt, 1.33 g/t Pd, 0.693 g/t Au, 0.45% Cu and 0.16% Ni over 1.0m, open in all directions, but there is a question as to whether Santoy relocated the Spy showing previously sampled by Inco.
	South of SPY	

Occurrence	Location UTM	Description
99 Showing	621500E 6779850N	The 99 Showing occurs in talus and subcrop of rusty peridotite with 10% net textured or fracture controlled and vug-filling sulphides (pyrrhotite>pentlandite>chalcopyrite) 10m above the basal gabbro contact. Downslope is another medium grained gabbro unit with 2-5% pyrrhotite/pentlandite, minor chalcopyrite and local malachite and azurite. The best samples from 2016 contained 0.587 g/t PGE+Au, 5122 ppm Cu, 469 ppm Ni, and 43 ppm Co and 0.302 g/t PGE+Au, 2047 ppm Cu, 1263 ppm Ni and 163 ppm Co. Fifty metres to the east the sill is buried under talus. Inco collected a grab sample approximately 120m upslope from this area which returned 4.750 g/t Pt, 1.910 g/t Pd, 2.610 g/t Au, 0.28% Cu and 2.91% Ni. Santoy were not able to locate the sample. Interestingly, the sample was taken at a gabbro-siltstone contact above the peridotite from an underexplored horizon.
Solo Showing	622400E 6779300N	The Solo Showing is on the east side of Nines Creek in a fault zone perpendicular to the contact between the Spy sill and Hasen Creek sediments. Mineralization is found in the peridotite, gabbro, sediments and contact hornfels. The ultramafic has been altered to a listwanite with carbonate veining, and trace Cu oxides. Gabbro lenses within the ultramafic are mineralized with blebs of pyrrhotite, pentlandite, and chalcopyrite with limonite staining. Sediments are rusty, altered and fractured with minor Cu oxides and disseminated sulphides. The best samples ran 1.542 g/t PGE+Au, 3130 ppm Cu, 7636 ppm Ni and 276 ppm Co and 2.182 g/t PGE+Au, 1694 ppm Ni, 1367 ppm Ni and 74 ppm Co.
SPY South-Central	622500E 6779200N	This is an area not a specific showing. It refers to the strike extension of the Spy sill south of the Spy Showing into the southern Nines Creek valley. The area is extremely rugged and difficult to access. The sill can be seen in outcrop trending across the cliff. Two new showings were prospected in this area in 2016, the 99 Showing and Solo Showing.
	North of SPY	
Bugs	621000E 6780500N	The Bugs showing is located approximately 200 metres northwest of the Spy showing and consists of two outcrops of silicified gossanous siltstone in contact with mineralized marginal gabbro. The siltstone is strongly malachite stained and hosts 10 cm wide massive chalcopyrite-pyrrhotite veins in several orientations. The best grab sample was 3.954 g/t Pt, 1.248 g/t Pd, 0.342 g/t Au, 3.66% Cu and 1.44% Ni over 0.9m. Santoy collected a continuous chip over 2.8m with a weighted average of 2.613 g/t PGE+Au, 1.60% Cu and 0.77% Ni.
Wylie	620900E 6780540N	At the Wylie showing mineralization occurs in sulphide net textured marginal gabbro, malachite-stained, footwall siltstone with disseminated chalcopyrite and pyrite, and massive sulphide veins in marginal gabbro. A 4.4m chip sample returned a weighted average of 1.01 g/t PGE+Au, 1.17% Cu and 0.23% Ni. Between the Wylie and Bug showings, mineralization is common but not continuous.
Taz	620700E 6780680N	The Taz showing consists of strongly malachite altered siltstone downsection of the gabbro contact. Thick scree in the area covers the gabbro contact. A hand trench over the siltstone was sampled for its entire 5.5 metre length with the most significant mineralization being a 1.5m chip that returned 1.324 g/t Pt, 0.701 g/t Pd, 0.489 g/t Au, 0.25% Cu and 0.38% Ni. The Taz was revisited in 2016.
21 Again	620350E 6780800N	The 21 Again showing is a semi-massive pyrrhotite skarn up to 3 m occurring at the contact of limestone, limey shales and gabbro, located between the Sweet 16 and Taz showings and approx. 230m up section in an overlying gabbro unit. It may be part of the same horizon as Claim Post. The mineralization was traced for over 50 metres and then into talus cover. A composite chip was taken by Santoy, but contained only 77 ppb Pt, 68 ppb Au and 604 ppm Cu.

Occurrence	Location UTM	Description
Sweet 16	620500E 6781050N	The Sweet 16 showing is located northwest of the Taz Showing and consists of one small outcrop and several small pits over a 100m area. Extensive talus cover extends between the Taz and Sweet 16 showings. Mineralization is disseminated net-mesh textured pyrrhotite>pyrite>chalcopyrite in a marginal gabbro at or above the siltstone contact. The best result was a 1.2m chip containing 1.850 g/t Pt, 1.554 g/t Pd, 1.071 g/t Au, 0.12 % Cu and 0.03% Ni. Several grab and chip samples collected by Santoy and Inco in the area contain values ranging from 0.5-2.1 g/t combined PGE+Au, but a lack of outcrop has limited understanding of the extent of mineralization. This showing was revisited in 2016.
Claim Post	620250E 6781200N	The Claim Post showing is one of several pyrrhotite-magnetite horizons found above the Spy Sill. At Claim Post a 4m thick pyrrhotite horizon is hosted by silicified siltstone and capped by magnetite and gabbro. Minor magnetite and chalcopyrite occur within the pyrrhotite. Copper values from historic samples were in the 0.1 to 0.3% range, cobalt values were 33-640 ppm. Nickel values reached a maximum of 520ppm and PGE values were low (Bell, 1996).
	North of main Spy sill	
Spy North	619700E 6781900N	Spy North covers the sill from the Claim Post showing northwest to its intersection with the Bock's Brook intrusions. The sill kinks north in this section and heads down into the Nines Creek valley where it can be traced through scattered outcrops. Part of this area was prospected and sampled in 2015 and 2016. There is some evidence that a parallel gabbro sill continues directly northwest from where the sill kinks. A subtle discontinuous trend of moderate conductivity parallel to the sill suggests the presence of gabbro that continues northwest parallel to the strong linear magnetic high that defines the sill. In 2015, a prospecting traverse along a ridge that intersected this trend passed through Nikolai basalts and andesite dykes.
Bock's Brook	615442E 6785036N	Previous work needs to be researched and compiled for this area, but the amount of work and number of samples is limited. The ruggedness of the terrain and the higher results from the Spy sill have diverted attention away from this area. INCO collected samples from three intrusions and country rock in this area. The southernmost intrusion extends onto the Spy claims and contained the best overall sample of the three intrusions at 674 ppm Ni, 289 ppm Cu, 65 ppm Co, 15 ppb Pt, 26 ppb Pd and tr Au. Santoy spent one day in the area and collected no anomalous PGE samples, but did find one sample of float with 20% pyrite and chalcopyrite that assayed 0.85% Cu. No bedrock source was located.
Lewis	610180E 6790000N	The Lewis Intrusions at the northwest end of the claim have also not received much work. INCO collected 12 samples from two intrusions in this area. All samples were collected outside the current spy claim area. The best sample assayed 1585 ppm Ni, 4360 ppm Cu, 105 ppm Co, 580 ppb Pt, 296 ppb Pd and Au from the westernmost intrusion. Limited sampling on the eastern intrusion which extends onto the SPY claims returned Ni in the 59-361 ppm range, Cu in the 59-361 ppm range, Co in the 35-99 ppm range and trace PGE values.
Bock Minfile	613193E 6790170N	The original Bock minfile occurrences were originally recorded as gypsum showings from 1967. The deposit type was later updated to Gabbroid Ni-Cu once the focus of investigation changed. Bell, 1995 records fault slices containing gypsum along the tributary creek below on the Bock's Brook ultramafic intrusions and 2m by 3m by 1m rafts of gypsum in Nikolai basalt north of the ultramafic intrusion. This area corresponds roughly with the recorded location of 115G084C.

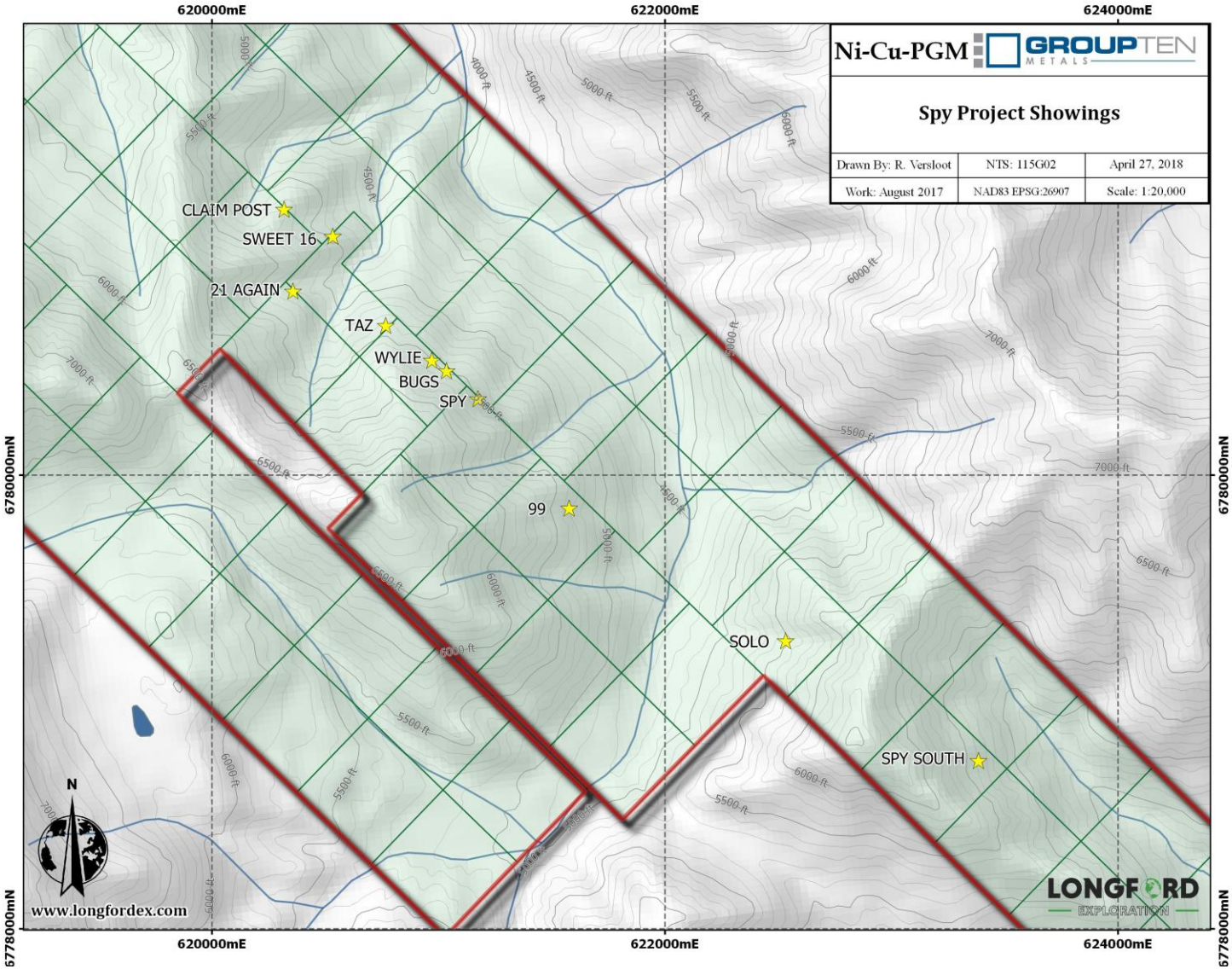

Figure 5.7 Named mineral occurrences, Spy central & south area.

6 Work Program: Hand trenching, Rock Sampling, Prospecting

The 2018 Exploration Program from Aug. 7 to 15, 2018 consisted of prospecting, geological mapping, rock sampling and hand trenching with expenditures totalling: $79,231.

A Longford Field Crew mobilized to the Spy claims on Aug. 7, 2018 and used a Jet Ranger from TRK Helicopters for access. Field personnel included: geologists Ryan Versloot & Graham Davidson, student geologist Matt Martinolich and field technician Josh McKenzie. Local supplies, services and fuel were obtained from Destruction Bay and Burwash Landing. The program was managed by James Rogers of Longford Exploration Services Ltd.

Mapping and sampling was focused on potential Cu-Ni-PGE mineralization associated with gabbro and peridotite sills of the Kluane Mafic/Ultramafic Intrusive complex. The program targeted the footwall contacts of the mafic/ultramafic sills with Hasen Formation sediments where quartz carbonate veining and potential disseminated mineralization occur in marginal gabbroic rocks and silicified siltstone.

A total of 43 grab samples were collected on traverse and an additional 32 rock chip samples were collected from hand trenches excavated at the Sweet 16 and Taz showings (Figures 6.1 - 6.3). Rock descriptions and GPS coordinates were recorded for each sample and geological reference point then entered into an MS Excel spreadsheet (see Appendix C). Rock samples were packaged in numbered plastic bags, secured with plastic zap straps and packed into a rice bag for delivery to Bureau Veritas Laboratories in Whitehorse. Samples were crushed to less than 2mm after which a 250g split was pulverized to below 75µm (PRP70-250) and a 0.5g split was analyzed for 33 elements by Aqua Regia ICP-ES (AQ300) as well as a 30g split analyzed for Au, Pt, Pd by Fire Assay ICP-ES (FA330). Analytical certificates can be found in Appendix D.

Geological traverses in the Nines Creek drainage and surrounding uplands recorded 9 geo-sites and 27 XRF readings. The historic Spy, Taz and Sweet 16 showings exposed on steep talus and outcrop slopes were examined and sampled (see Table 6.1 – 6.3). Ultramafic rocks outcropping at Spy south area and along the north branch of Nines Creek were examined in several traverses across prospective areas (see Table 6.4 – 6.6). Hand trenches were dug to facilitate systematic chip sampling across the sill at Sweet 16 and Taz occurrences. Rock samples were analyzed with an infield XRF device before being sent to Bureau Veritas Laboratories in Whitehorse.

Previous mapping by Inco and Santoy has produced a fairly detailed geology map of the property. Peridotite and gabbro sills intrude siltstone, argillite and limestone of the Hasen Formation with pockets of Cu – Ni mineralization occurring at the lower contact of the gabbro or peridotite sills with siltstone. Veins and blebs of pyrrhotite, pentlandite and chalcopyrite may occur as net textured mineralization at the base of the gabbro or peridotite sill. The mineralization extends into the footwall siltstone as quartz carbonate veins with disseminated chalcopyrite and pyrrhotite marked by malachite and azurite stain. Bands and lenses of skarn mineralization consisting of pyrrhotite occur at the contact between ultramafic sills and limestone.

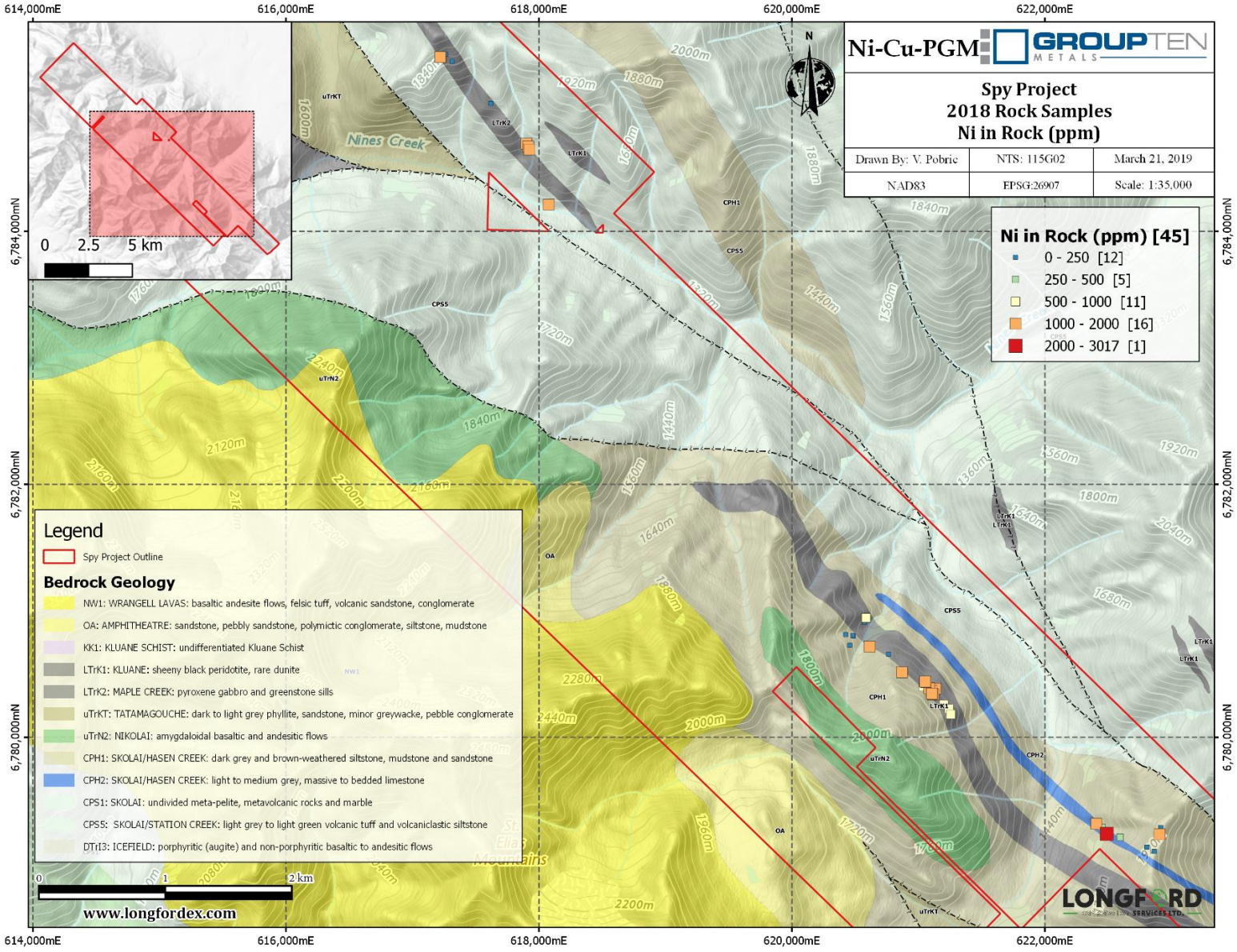

Figure 6.1 2018 Spy rock sample results for Ni (ppm).

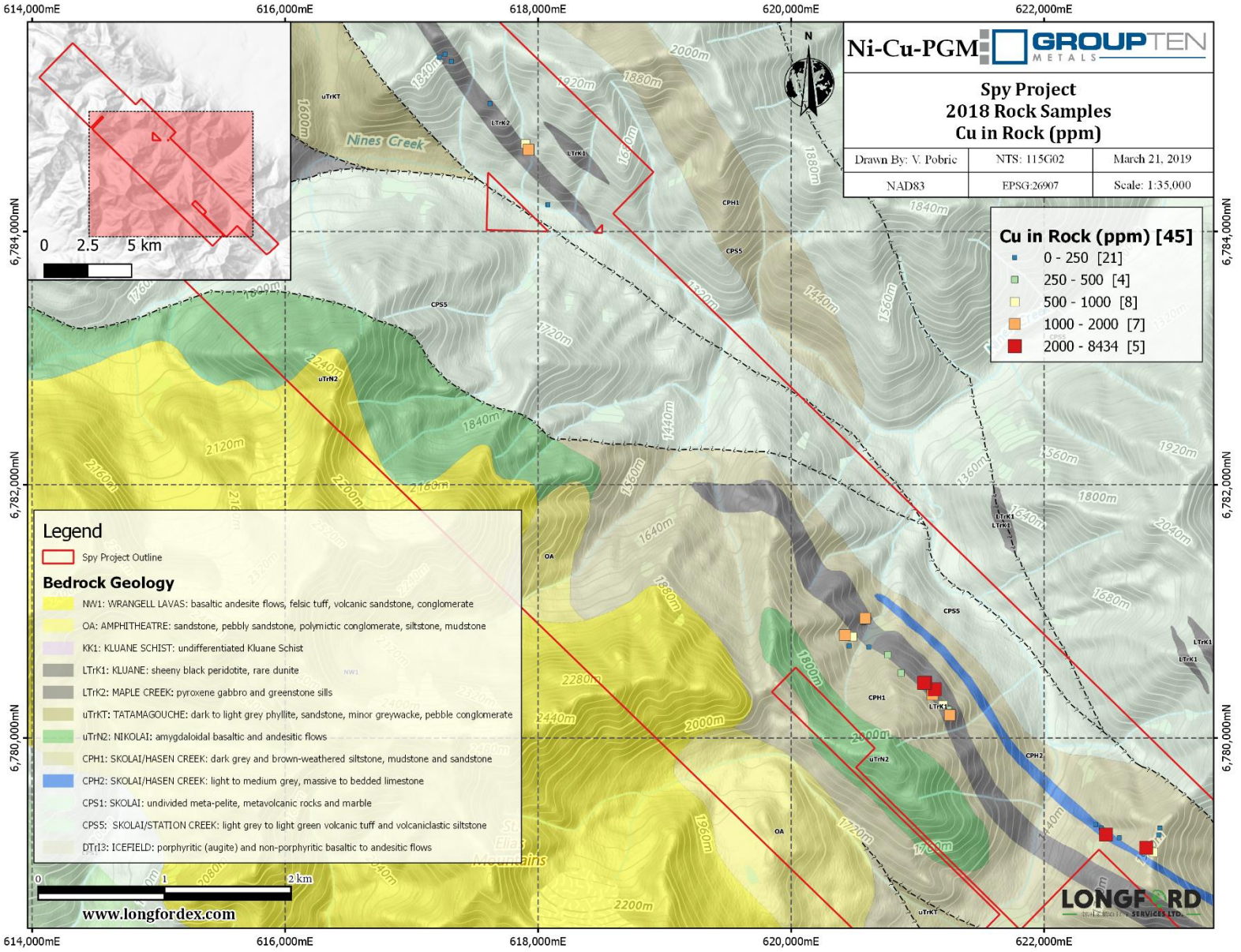

Figure 6.2 2018 Spy rock sample results for Cu (ppm).

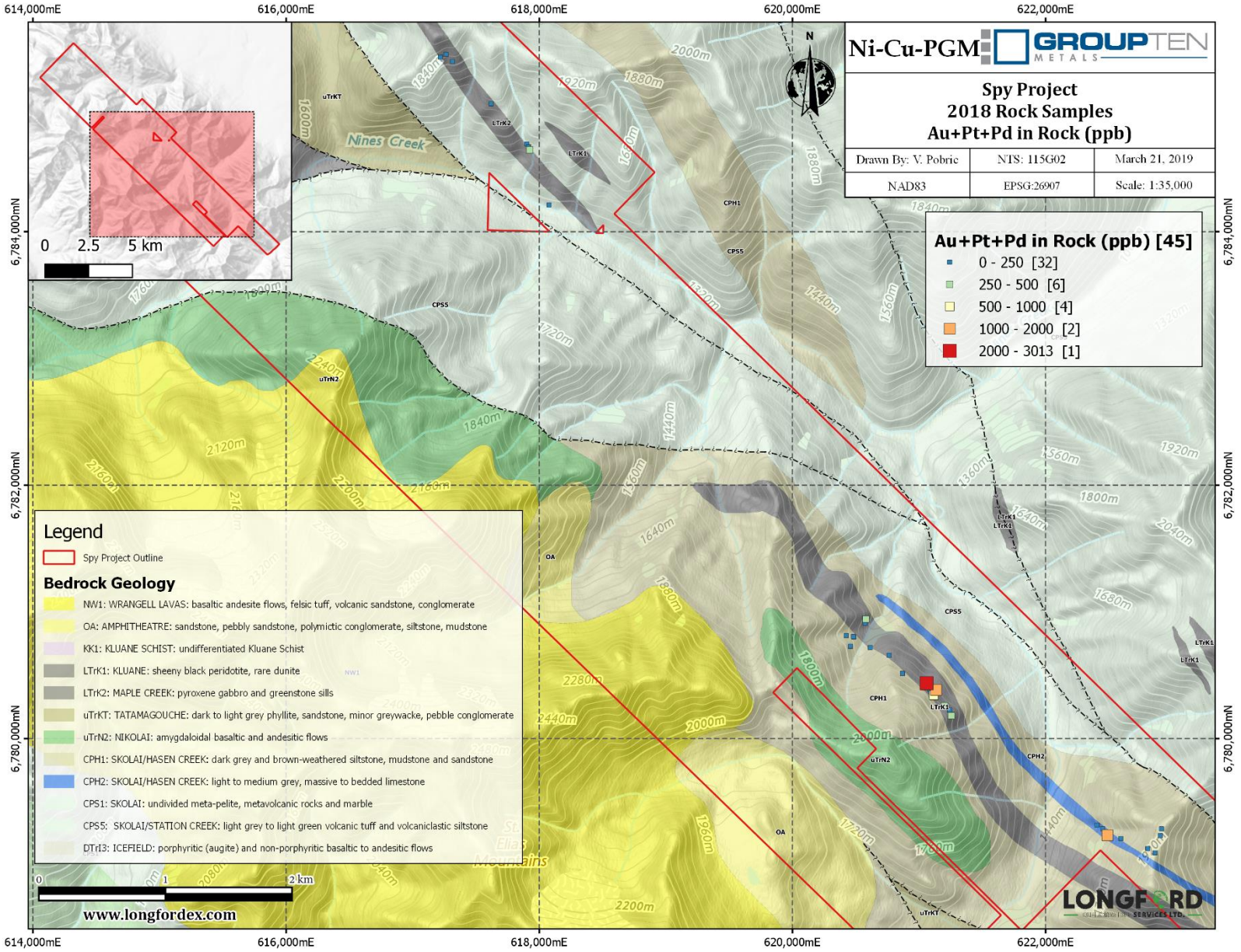

Figure 6.3 2018 Spy rock sample results for Au+Pt+Pd (ppb).

6.1.1 SWEET 16 AREA ROCK SAMPLES

A set out above the Sweet 16 showing on Aug. 8, 2018 initiated a traverse down the ridge crossing several gabbro & peridotite sills in argillite and limestone exposed in scree and outcrop before reaching the gossanous occurrence at the lower peridotite/gabbro sill footwall contact with argillite. Quartz carbonate veining contains < 5% patchy pyrrhotite and pentlandite with minor chalcopyrite and malachite. Two trenches (Trench 18-01 & 18-02) were marked out with flagging and a three-man crew spent the day excavating the trenches using pelican picks and shovels. The writer continued a traverse to the southeast across several gossanous contacts collecting grab samples listed in Table 6.1.

Table 6.1 Rock sample descriptions and values from the Sweet 16 Area.

Sample No.	Easting E	Northing N	Description	Ni PPM	Cu PPM	Au + PGE PPB
1318251	620425	6780812	Light green grey argillite below gabbro sill, skarn, orange black weathering, 10% po + py, skarn	51	1087	12
1318252	620485	670800	Light green grey argillite below gabbro sill, skarn, orange black weathering, 5-10% po + py, skarn	76	706	32
1318253	620482	6780804	Base of gabbro sill above contact with argillite, quartz carbonate veining, serpentine bands, 2-5% net textured po	53	98	23
1318254	620458	6780727	Brown green weathering gabbro, chloritic, quartz carbonate veining, trace pyrrhotite	124	56	8.5
1318255	620615	6780717	Black to blue black fine grained peridotite, serpentine veins, slickensides, trace pyrrhotite, magnetic (3)	1171	173	109
1318278	620581	6780942	Grey green gabbro, quartz carbonate veins, oxidized in part, yellow brown weathering, serpentine bands,	656	797	372
1318279	620586	6780944	Grey green gabbro, quartz carbonate veins, oxidized in part, yellow brown weathering, serpentine bands,	866	1088	146

6.1.2 TAZ AREA ROCK SAMPLES

The Taz occurrence was accessed on Aug. 11, 2018 with a set out just below the old pits. A similar gossan zone to the one seen at the Sweet 16 occurs at the lower sill contact with the underlying siltstone and argillite. The crew dug a hand trench (Trench 18-03) at the lower contact of a large peridotite, anorthosite and gabbro sill that outcrops along a ridge then descended to the northeast to trench (Trench 18-04) an ultramafic sill outcropping part way down the slope then finished below the Sweet 16 digging a trench (Trench 18-05) at the footwall contact. The writer collected several samples in the Taz area summarized in Table 6.2, then attempted a traverse to access the Spy occurrence across the slope however the terrain was too steep.

Table 6.2 Rock sample descriptions and values from TAZ Area.

Sample No.	Easting E	Northing N	Description	Ni PPM	Cu PPM	Au + PGE PPB
1318280	620870	6780513	Yellow orange weathering Siltstone below gabbro sill, quartz carbonate veining, limonite	565	325	147
1318281	620870	6780513	Anorthosite, medium to coarse grained, dark grey, 2-5% po, magnetic	1285	177	61
1318285	620764	6780656	Heavily oxidized siltstone at lower gabbro contact, orange black weathering, tr cpy, malachite and azurite, paleosol	241	297	30
1318290	620574	6780910	Medium grey diorite to quartz diorite, 5-10% net textured sulphides	18	78	9.5
1318293	620585	6780934	Orange weathering fine to medium grained gabbro	457	526	192

6.1.3 SPY SILL AREA ROCK SAMPLES

Access to the steep Spy sill occurrence required an ascent from below on Aug. 12, 2018 up a talus slope. Cliffs and outcrops of peridotite, gabbro and anorthosite overlie siltstone at the Spy. Several small pods of massive pyrrhotite occur at the peridotite anorthosite contact however the Cu-Ni values were low. Better mineralization was seen in the underlying gabbro along the footwall contact with siltstone as lenses of quartz carbonate veining with spotty pyrrhotite, chalcopyrite, malachite and azurite. The mineralization is patchy and occurs as small pockets along the contact. The Sill was followed to the southeast along cliffs and talus with grab samples taken along the lower contact summarized in Table 6.3. A steep descent and scramble down a rock gully crossed the gabbro siltstone footwall contact while dropping to Nines Creek for pick-up.

Table 6.3 Rock sample descriptions and values from Spy Area.

Sample No.	Easting E	Northing N	Description	Ni PPM	Cu PPM	Au + PGE PPB
1318294	621135	6780383	Orange weathering fine to medium grained gabbro	1144	5234	1122
1318295	621104	6780365	Green black gabbro, grey white weathering	1049	146	150
1318296	621086	6780387	Green black gabbro, grey white weathering	1146	109	35
1318297	621040	6780399	Green black gabbro, grey white weathering	799	114	45
1318298	621860	6780436	Green black gabbro, grey white weathering. Malachite	1067	8434	3013
1318299	621050	6780434	Orange to white weathering fine grained peridotite	889	2014	687
1318300	624051	6780438	Orange to white weathering fine grained peridotite	750	1676	520
1318303	621117	6780339	Black glassy peridotite, white weathering in part, serpentine veins, 5% disseminated sulphides	1357	228	166
1318304	621116	6780342	Orange brown weathering anorthosite, heavily oxidized, bands of semi-massive sulphide	961	1073	742

1318305	621106	6780345	Orange brown weathering anorthosite, heavily oxidized, bands of semi-massive sulphide	1397	389	229
1318306	621201	6780257	Brown to red weathering medium grained gabbro with 5-10% sulphides	615	607	253
1318307	621242	6780224	Brown to red weathering medium grained gabbro with 5-10% sulphides	533	278	82
1318308	621255	6780180	Rusty red weathering fine grained gabbro-anorthosite, weak malachite	770	1155	463
1318309	621052	6780439	Black glassy peridotite, white weathering in part, serpentine veins, 5% disseminated sulphides	257	195	57
1318310	621052	6780440	Black glassy peridotite, white weathering in part, serpentine veins, 5% disseminated sulphides	1110	1479	455

6.1.4 NORTH SPY ROCK SAMPLES

On Aug. 13, 2018 the crew was set out on a ridge top northeast of the north branch of Nines Creek to check aeromagnetic anomalies. A traverse in the vicinity of the Spy 127-135 claims crossed Hasen argillite and siltstone with minor limestone intruded by grey green Maple Creek gabbro sills. The gabbro was moderately magnetic and local gossan zones were seen along the footwall contact however no mineralization was found. At lower elevations two large peridotite sills are exposed in cliffs along the walls of a small creek gully just above Nines Creek. The lower black glassy fine grained peridotite sill is over a hundred metres thick and has a marginal gabbro interval. Trace pyrrhotite and minor bluish tinge occur in the peridotite. The intrusive sills are moderately magnetic which would account for the airborne magnetic anomaly in this area. Rock samples were collected across the lower sill (see Table 6.4) and a series of XRF readings were taken, listed in Table 6.5. Extensive quartz carbonate veining in outcrop and float occurs in the footwall of the sill along the bank of Nines Creek.

Table 6.4 Rock sample descriptions and values from North Spy Area.

Sample No.	Easting E	Northing N	Description	Ni PPM	Cu PPM	Au + PGE PPB
1318311	617219	6785377	Waxy green - black gabbro, quartz carbonate veins, magnetic (2-3), green brown weathering, chloritic faces	1542	41	47
1318312	617264	6785400	Foliated gabbro, slickensides, chloritic to serpentine, quartz carbonate veins, non magnetic	65	94	22
1318313	617314	6785343	Rusty red to brown weathering, common quartz carbonate veining, underlies gabbro sill	31	21	6.5
1318314	617619	6785010	Maple Creek gabbro, light green, medium grained, pyrite lenses, trace quartz carbonate veining	17	69	5.5
1318315	617901	6784692	Glassy black massive peridotite, magnetic (3), outcrops over 100m along ridge	1811	948	193

1318316	617915	6784670	Glassy black massive peridotite, magnetic (3), outcrops along ridge	1140	237	76
1318317	617924	6784646	Glassy black massive peridotite, magnetic (3), outcrops along ridge	1786	1070	287
1318318	618077	6784211	Glassy black massive peridotite outcrops on east side of Nines Creek, magnetic (3), outcrops over 60m along bank	1608	112	66

Table 6.5 XRF test locations, descriptions and values from North Spy and Nines Creek.

XRF Site	Location (E)	Location (N)	Description	Cu (ppm)	Ni (ppm)	Cr (ppm)
18-1	617134	6785378	Grey green gabbro, rusty fractured zone with argillite inclusions, magnetic (2-3), strike 306, dip 72	24	547	
18-2	617130	6785301	Cherty black, fine grained sediments	125	130	107
18-5	617119	6785310	Cherty black/brown, fine grained sediments	69	116	233
18-6	617888	6784954	Medium grained gabbro	96	142	442
18-7	617900	6784694	Peridotite, fine grained, black, waxy, magnetic reading = 3	213	2252	2553
18-8	617911	6784669	Peridotite, medium grained, waxy, blue tinge	939	1390	2586
18-9	617921	6784644	Peridototite, black waxy, fine grained	643	1471	2134
18-10	617927	6784615	Peridototite, black waxy, fine grained	122	1829	2592
18-11	618023	6784258	Quartz carbonate veining, peridoitite sill footwall.	84	2166	2752

6.1.5 SOUTH SPY ROCK SAMPLES

The final day's traverse on Aug. 14, 2018 was from a set out on a precipitous ridge above the south branch of Nines Creek. A series of black peridotite and green gabbro sills outcrop across the ridge top and down a steep gully on the northwest facing slope. A series of rock samples and XRF readings were taken of the sills and gossanous contacts with argillite and siltstone of the Hasen Creek Formation (see Tables 6.6 & 6.7).

Table 6.6 Rock sample descriptions and values from South Spy Area.

Sample No.	Easting E	Northing N	Description	Ni PPM	Cu PPM	Au + PGE PPB
1318319	622916	6779287	Black glassy peridotite, white weathering in part, serpentine veins, 2% disseminated sulphides	245	177	12
1318320	622907	6779233	Black glassy peridotite, white weathering in part, serpentine veins, 2% disseminated sulphides	1107	240	51
1318321	622865	6779097	Black glassy peridotite, white weathering in part, serpentine veins, 2% disseminated sulphides	127	503	27.5
1318322	622807	6779131	Black glassy peridotite, white weathering in part, serpentine veins, 2% disseminated sulphides	28	2692	12.5
1318323	622489	6779236	Rusty red to brown weathering, common quartz carbonate veining, underlies peridotite sill	3017	2944	1006
1318324	622451	6779288	Rusty weathering gabbro, white weathering in part, serpentine veins, 2% disseminated sulphides	427	164	28
1318325	622595	6779210	Rusty weathering peridotite, white weathering in part, serpentine veins, 2% disseminated sulphides	327	78	11
1318326	622407	6779316	Rusty weathering peridotite, white weathering in part, serpentine veins, 2% disseminated sulphides	1495	59	42

Table 6.7 XRF test locations, descriptions and values from South Spy.

XRF Site	Location (E)	Location (N)	Description	Cu (ppm)	Ni (ppm)	Cr (ppm)
18-12	622914	6779284	Siltstone/ultramafic contact; sill	150	1488	2437
18-13	622915	6779273	Peridotite sill	58	1518	2836
18-14	622909	6779255	Peridotite sill	202	1761	2536
18-15	622902	6779239	Peridotite sill	423	1885	2301
18-16	622902	6779221	Peridotite, fine grained, waxy	771	2043	2093
18-17	622895	6779185	Fine - medium grained gabrro footwall	52	351	503
18-18	622895	6779171	Gabbro transitioning into peridotite	119	354	1256
18-19	622891	6779160	Peridotite, fine grained, waxy	141	576	1555
18-20	622887	6779148	Peridotite, fine grained, waxy	0	782	1699
18-21	622883	6779138	Grey, fresh, gabbro, fine-medium grained	86	93	177
18-22	622879	6779126	Peridotite/siltstone contact; hanging wall	24	576	1571
18-23	622866	6779099	Peridotite, waxy, fine-grained	123	1410	1011
18-24	622802	6779135	30 m siltstone package	15963	0	0

18-25	622785	6779134	Peridotite, waxy, fine-grained	115	1407	1070
18-26	622690	6779161	Talus gabbro	54	1859	2696
18-27	622690	6779161	Talus gabbro	0	402	940

6.2 Hand Trenching and Rock Chip Sampling

A total of 33 rock samples were collected from hand trenches dug at the Sweet 16 and Taz Areas. Trench locations are show in Figure 6.4 and results are summarized in Figures 6.5 - 6.9.

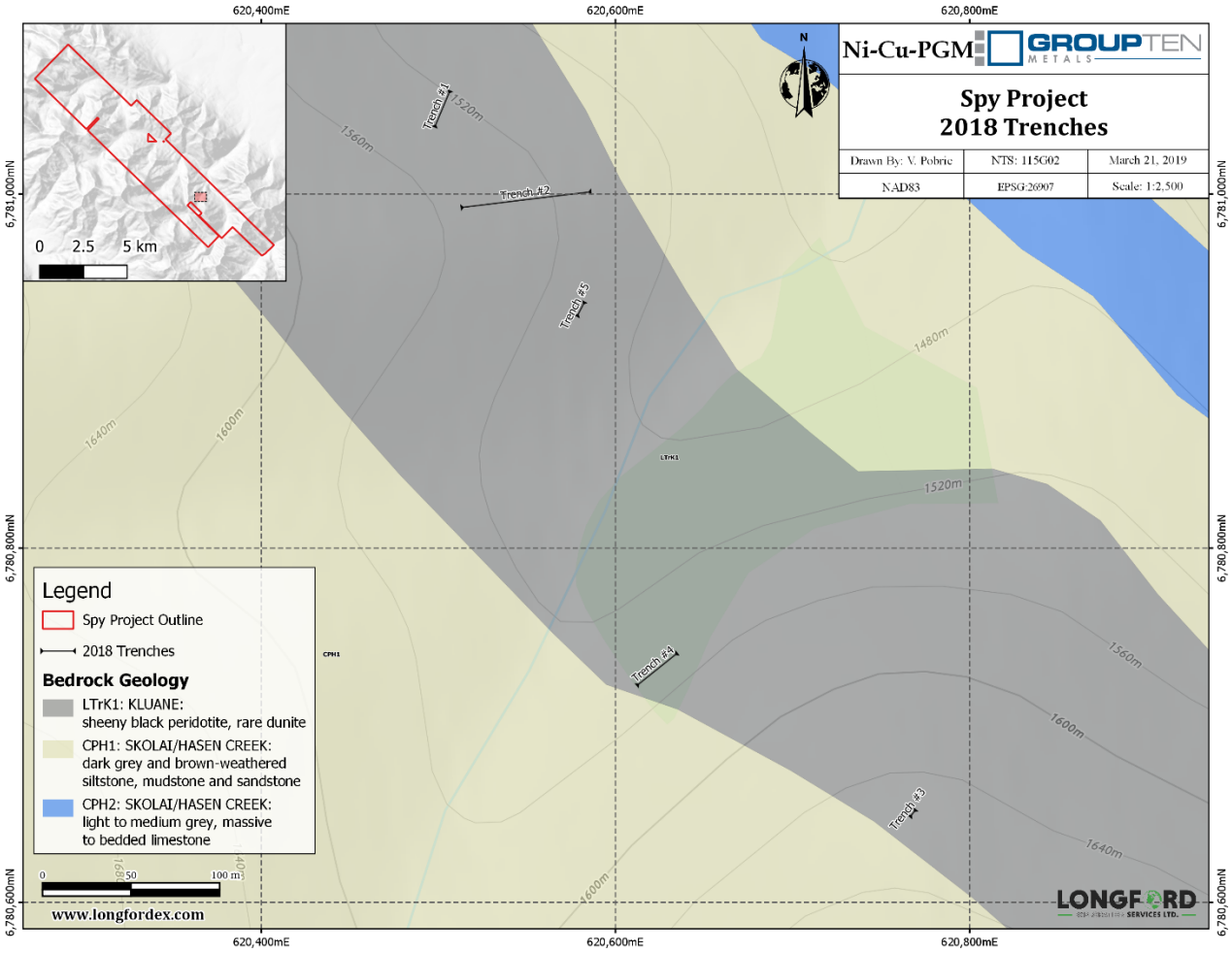

Figure 6.4 2018 Spy trench locations.

Trench sample results show elevated copper and gold + PGE's at the footwall contact of the sills primarily in gossanous siltstone and argillite. Nickel values are generally higher in the peridotite sill, up to 1646ppm but decline in the siltstone except at the Taz where the best results were obtained from a 2m chip sample (1318283) at the gabbro/siltstone contact recording values of 5451ppm Cu, 1404ppm Ni & 1821ppb Au + PGE's.

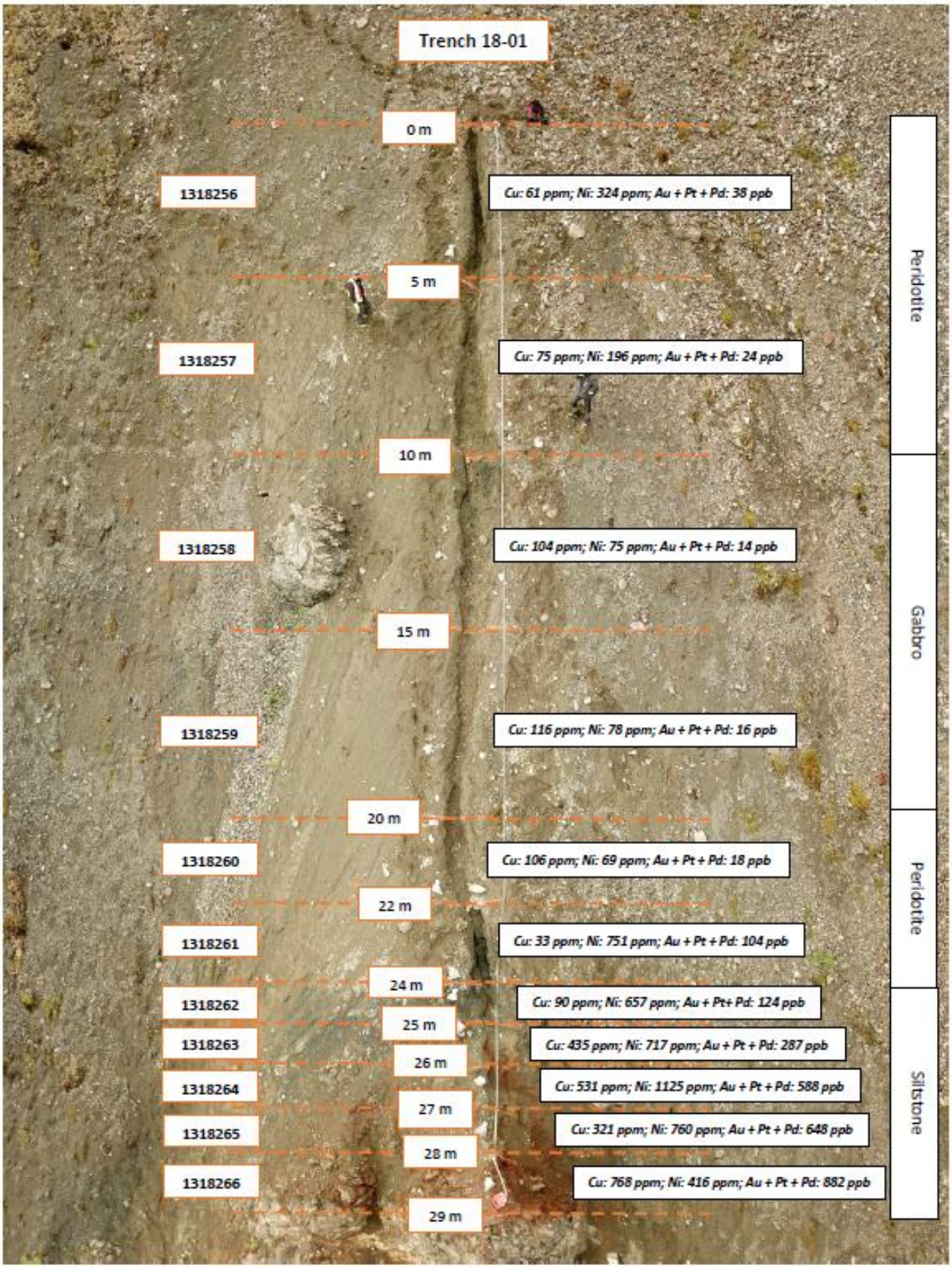

Figure 6.5 Spy trench 18-01.

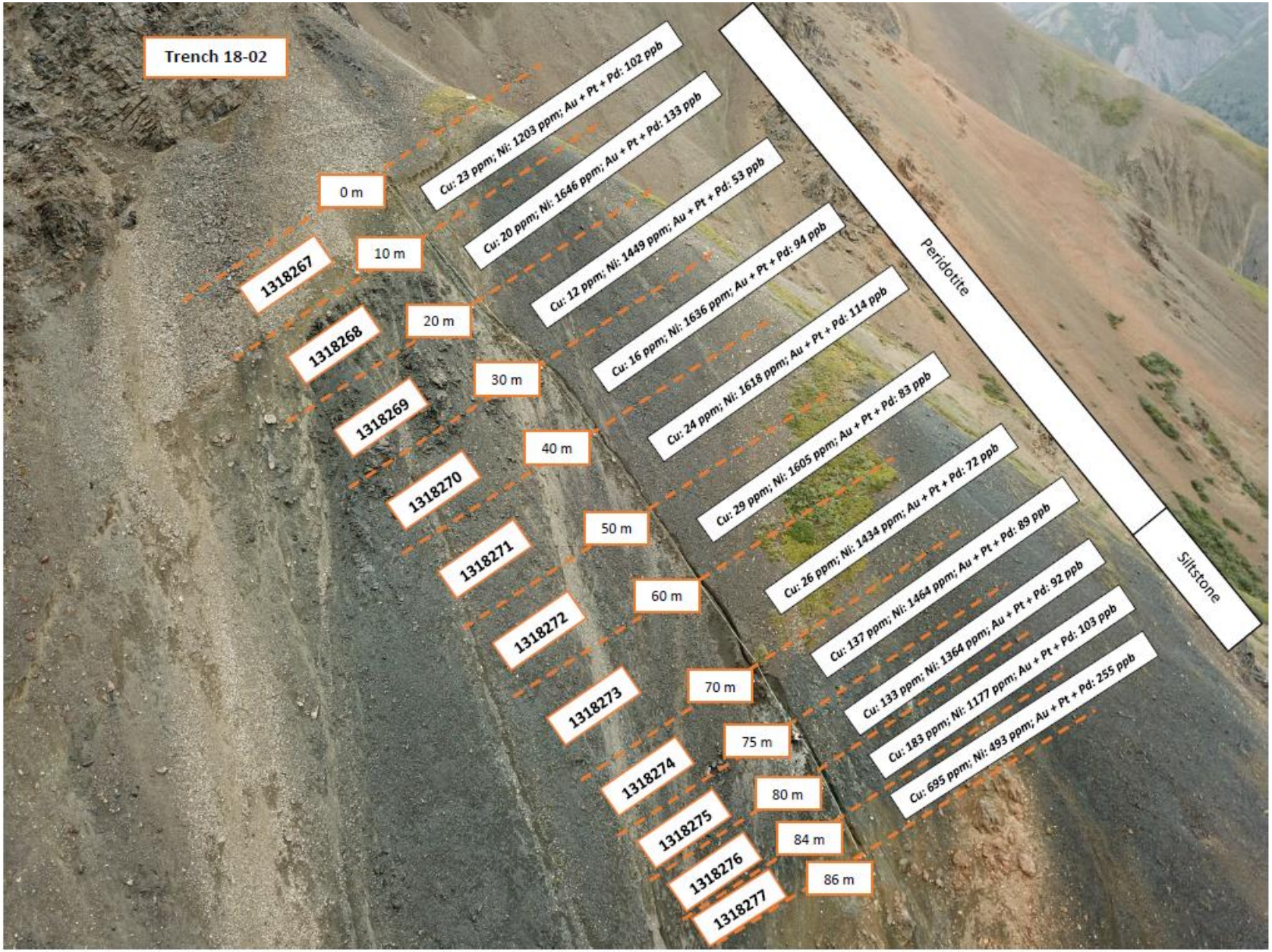

Figure 6.6 Spy trench 18-02.

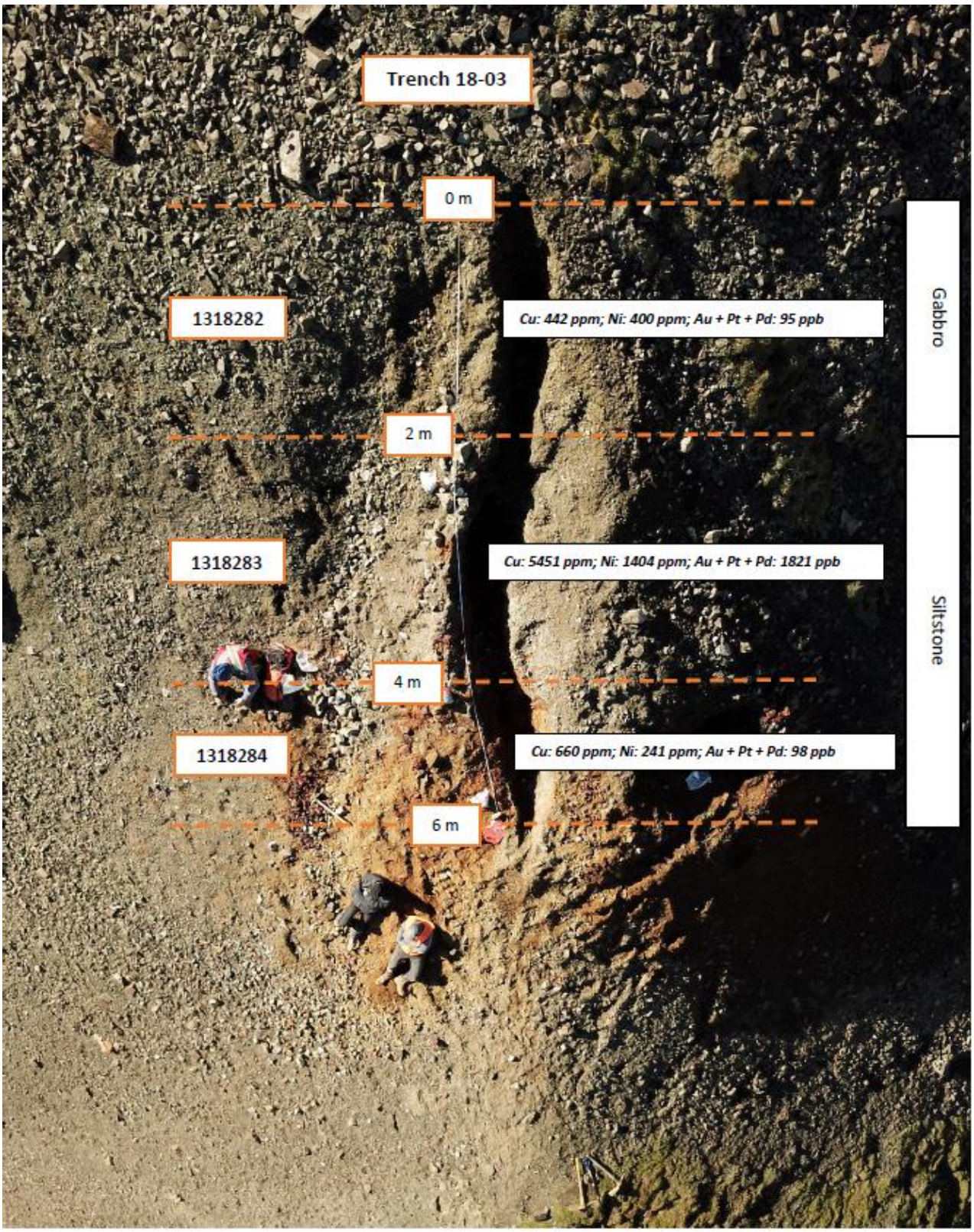

Figure 6.7 Spy trench 18-03.

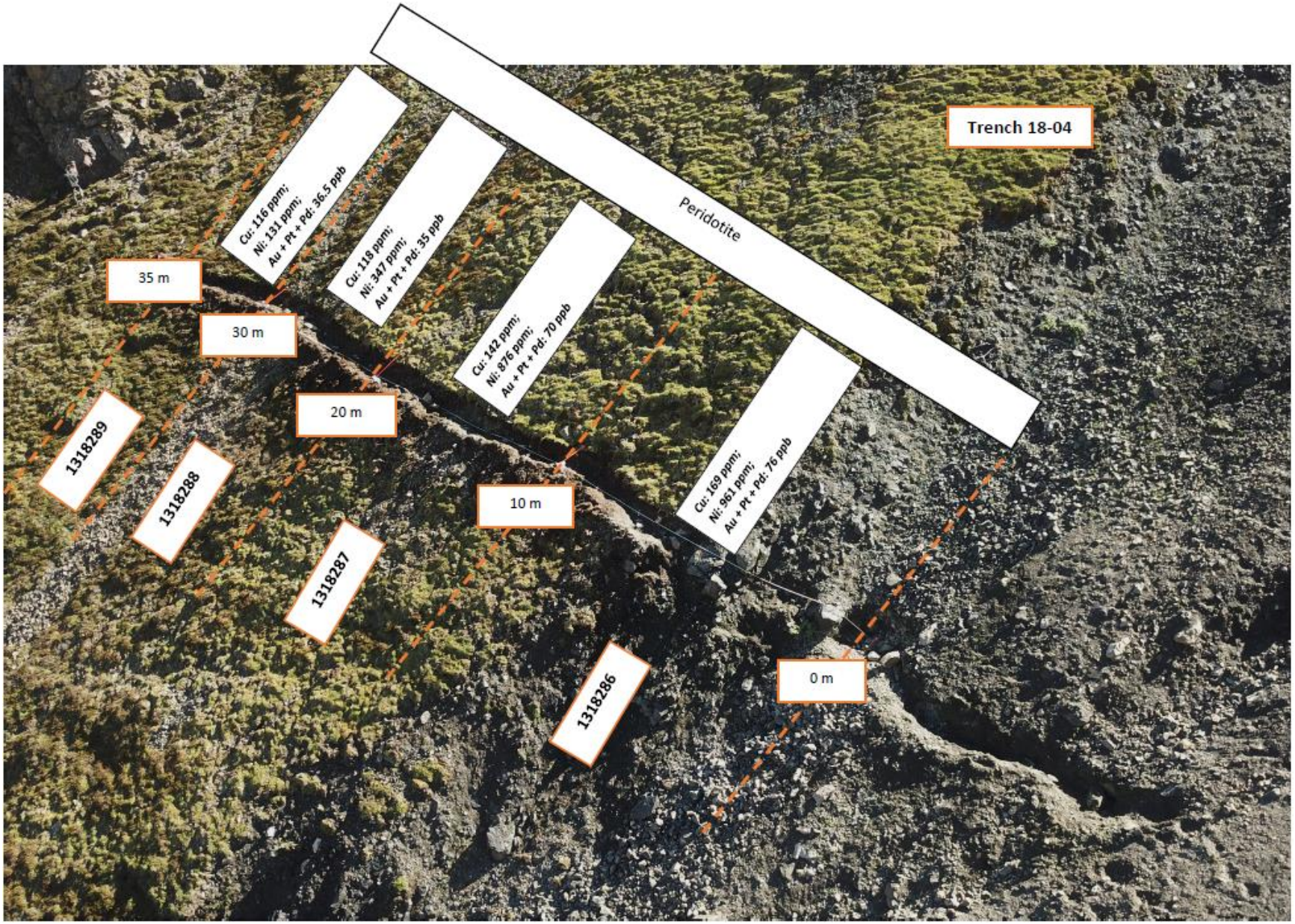

Figure 6.8 Spy trench 18-04.

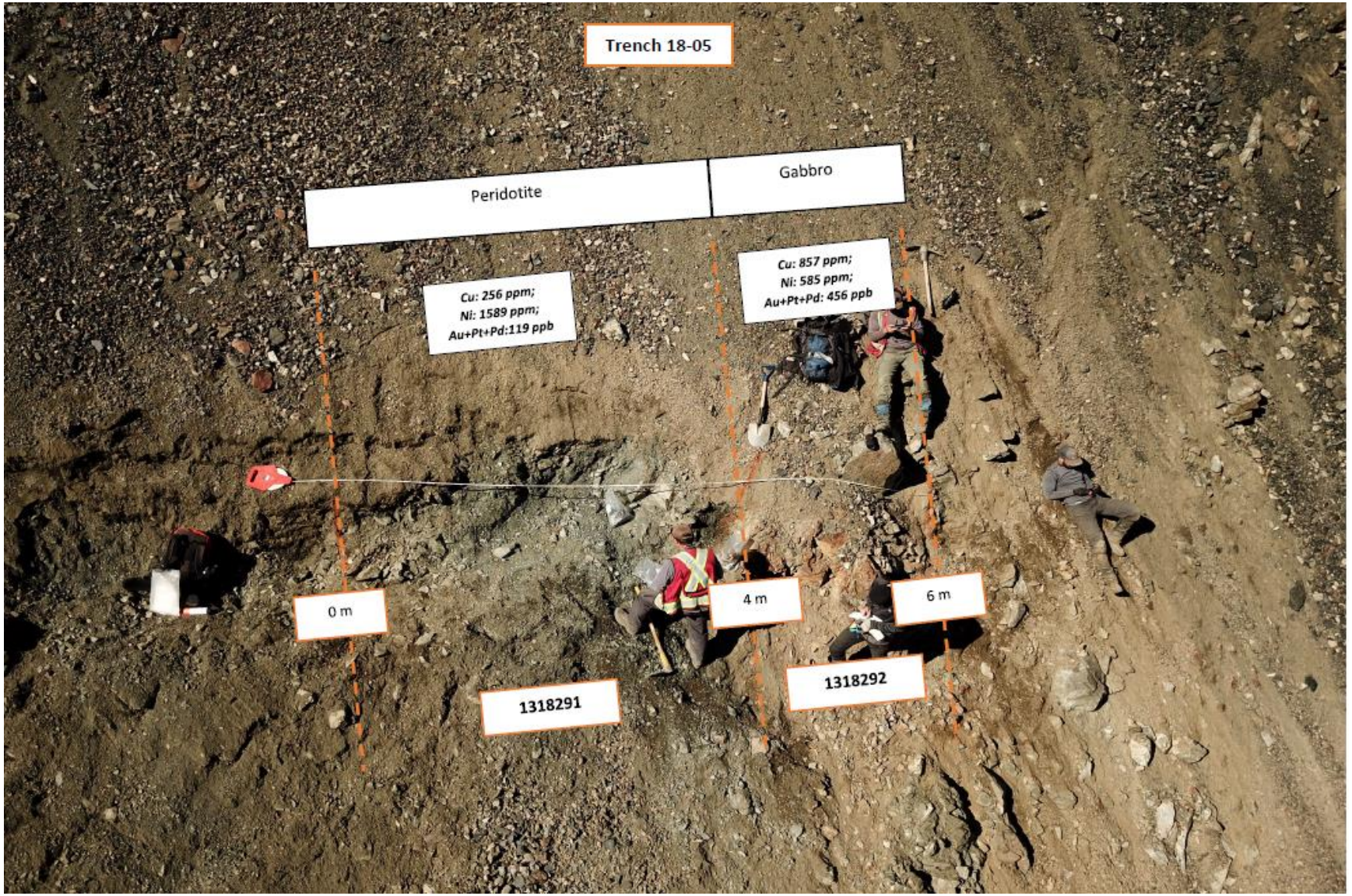

Figure 6.9 Spy trench 18-05.

7 Interpretation and Conclusions

The 2018 program was successful in further understanding the nature of the mineralization at the Spy Sill. Hand trenching was effective in systematically sampling the basal contact of the sill in 4 locations and proved that values for Ni Cu and PGE's are elevated at the contact and into the footwall.

The location of the Spy Sill on a steep cliff will make drilling difficult. No ideal drill hole location was identified directly above the sill, however it should be possible to test the sill from a drainage between the Taz and Sweet 16 showings. Alternatively, a program of directional drilling from several hundred metres above the Spy sill could be effective.

Prospecting at the Solo showing returned elevated values for Ni Cu and PGE's at the base of a peridotite sill. This is encouraging in that it shows potential continuity from the even more enriched Spy Sill area directly along the trend of the aeromagnetic anomaly.

Prospecting along the mapped sill in the mid east of the property identified peridotite in outcrop and elevated values for Ni and PGE's, though these values are low compared to the Spy Sill. The aeromagnetic anomaly here is not very distinct which may have implications for how the geophysics is interpreted elsewhere on the property.

The 2018 exploration program has expnded the data on the main Spy sill area and on the Spy South and upper Nines Creek targets. Results provide a potential drill target at Taz-Sweet 16 showings and outline quality anomalies to the northwest and southeast for further field exploration.

Recommended exploration activities include:

- Drone magnetic geophysics surveys
- Further chip sampling across the width of the sill and into the country rock.
- Trenching to uncover the sill in areas of low cover.
- Sampling and mapping the other Kluane mafic-ultramafic intrusions and Skolai Group rocks along strike of the Spy sill to the southeast and northwest.
- Evaluation of the north end of the claim block.

8 Recommendations

The Spy Sill has been worked up to drill ready status. The value that can be added from a drone mag survey should be evaluated as the terrain can be a challenge here and the ability to define sharp edges of the sill may not be possible. Drill testing the sill initially should be done from the drainage between the the Taz and Sweet 16 showings as well as the ridge above Sweet 16. A program of deeper directional drilling from high above the Spy Sill can follow this, contingent on results.

The north end of the Spy property remains underexplored. Target Area 1 (Figure 8.1 & 8.2) has had no historical rock samples taken from it, however a 1981 Polestar soil sampling report suggest some anomalies relating to ultramafic rock might be present here. The mapped geology here shows a confluence of Hasen Creek, Station Creek and Nikolai Volcanics which are ideal host lithologies. It has been hypothesized that the sill may assume a more vertical orientation here and that its magnetic signature may be dulled by the presence of volcanic rock. Soil sampling and prospecting is recommended here, as well as hand trenching should any targets be identified early in the program.

Target Area 2 last saw rock sampling in 1999 and PGE's were not tested for. Some of these claims were added in 2017 and have not been followed up yet. Elevated Ni values are present here and ridgelines provide good bedrock exposure. The ultramafic rock here should be mapped and sampled to test for the presence of PGE's and to identify potential drill sites.

Target Area 3 has had no historical samples taken from it. A small ultramafic intrusion is mapped here corresponding to a magnetic high that blends with the adjacent volcanics. This sill should be followed up with mapping and sampling.

A budget of $100,000 is proposed to evaluate the 3 targets areas over 8 days of prospecting and soil sampling, with drilling proposed in subsequent years contingent on results.

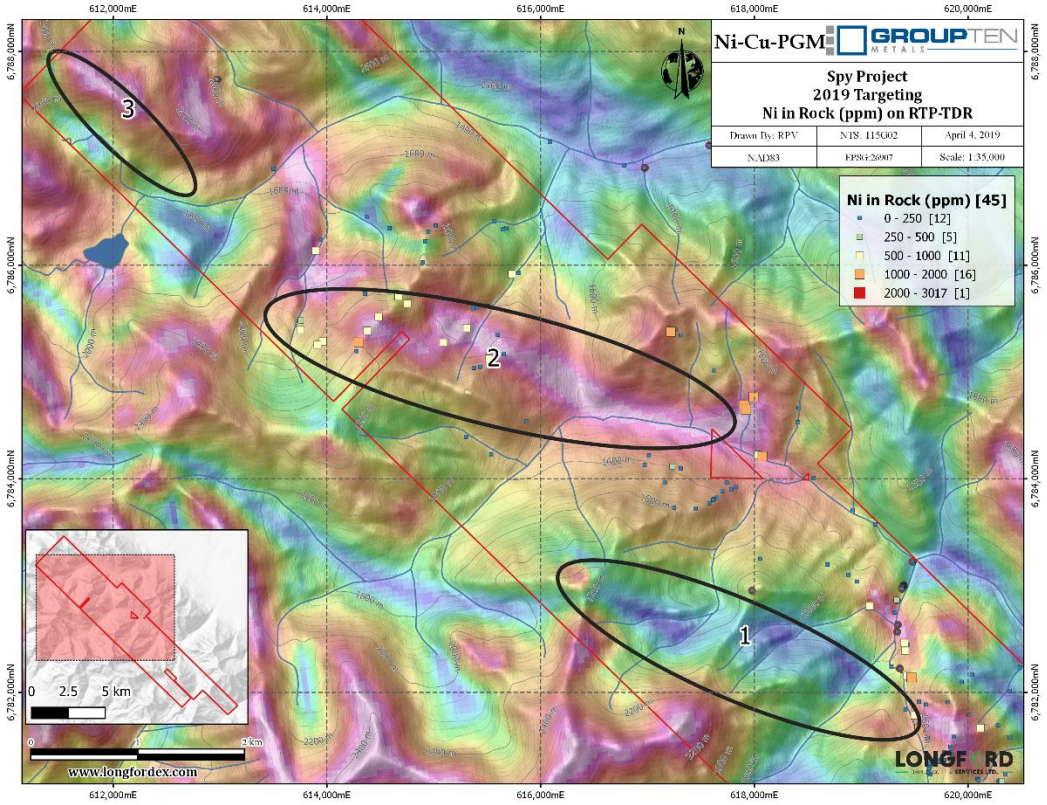

Figure 8.1 Spy Property targets on geophysics.

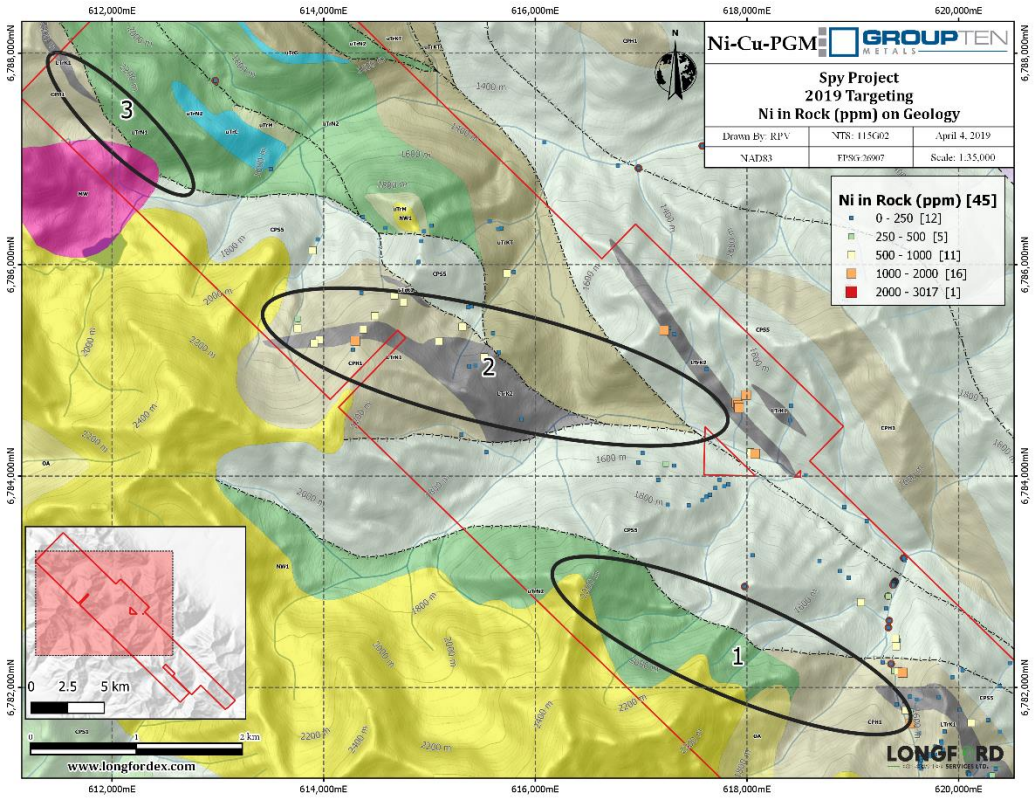

Figure 8.2 Spy Property targets on geology.

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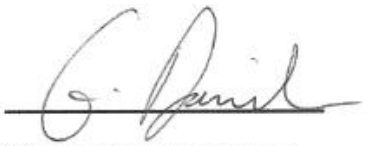
10 Statement of Qualifications

I, Graham Davidson, with business address at 53 Grandin Woods, St. Albert, Alberta T8N 2Y4 hereby certify that:

- I am a practising Geologist, resident in St. Albert, Alberta;
- I am a member in good standing with Association of Professional Engineers, Geologists and Geophysicists of Alberta (# 42308);
- I hold a Bachelor of Science (Honours) degree in Geology (1982) from the University of Western Ontario;
- I have practiced my profession as a geologist since graduation;
- I have no direct or indirect interest in the Spy Project, which is the subject of this report.
- I have based this report on:
    - Field work conducted by exploration contractors under my direct supervision
    - Historical research into past operations on and adjacent to the subject claims
- I consent to the use of this report for any Filing Statement, Statement of Material Facts, or support document.



Graham Davidson P.Geol.

APPENDIX A: 2018 Rock Samples

Sample_ID	mE_NAD83	mN_NAD83	Date	Sample Type	Width_m	Sample_Source	Lithology	Colour	Alteration	Sulphide /Other	Amt per	Description
1318251	620425	6780812	2018-08-08	Rock	grab	Outcrop	Argillite	grey	qtz-carb	po+py	10	Light green grey argillite below gabbro sill, skarn, orange black weathering, 10% po + py, skarn
1318252	620485	6780800	2018-08-08	Rock	grab	Outcrop	Argillite	grey	qtz-carb	po+py	10	Light green grey argillite below gabbro sill, skarn, orange black weathering, 5-10% po + py, skarn
1318253	620482	6780804	2018-08-08	Rock	grab	Outcrop	Gabbro	green	serpentine	po+py	5	base of gabbro sill above contact with argillite, quartz carbonate veining, serpentine bands, 2-5% net textured po
1318254	620458	6780727	2018-08-08	Rock	grab	Outcrop	Gabbro	green	qtz-carb	po+py	2	Brown green weathering gabbro, chloritic, quartz carbonate veining, trace pyrrhotite
1318255	620615	6780717	2018-08-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, serpentine veins, slickensides, trace pyrrhotite, magnetic (3)
1318256	620499	6781039	2018-10-08	Chip	5	Subcrop	Peridotite	black		po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318257	620499	6781043	2018-10-08	Chip	5	Subcrop	Peridotite	black		po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318258	620502	6781048	2018-10-08	Chip	5	Subcrop	Gabbro	green	serpentine	po+py	tr	waxy green medium grained gabbro, minor quartz carbonate veining

1318259	620503	6781049	2018-10-08	Chip	5	Subcrop	Gabbro	green	serpentine	po+py	tr	waxy green medium grained gabbro, minor quartz carbonate veining
1318260	620504	6781054	2018-10-08	Chip	2	Subcrop	Peridotite	black	qtz-carb	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318261	620505	6781057	2018-10-08	Chip	2	Subcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, talc coating, magnetic (2)
1318262	620504	6781055	2018-10-08	Chip	1	Outcrop	Gabbro	green	qtz-carb	po+py	tr	lower Gabbro, waxy, green, fine to medium grained, chloritic, siltstone inclusions
1318263	620505	6781054	2018-10-08	Chip	1	Outcrop	Siltstone	grey	qtz-carb	py	tr	orange weathering Siltstone at gabbro contact, quartz carbonate veining, limonite, heavily oxidized
1318264	620507	6781055	2018-10-08	Chip	1	Outcrop	Siltstone	grey	qtz-carb	py	tr	orange weathering Siltstone at gabbro contact, quartz carbonate veining, limonite, heavily oxidized
1318265	620505	6781053	2018-10-08	Chip	1	Outcrop	Siltstone	grey	qtz-carb	py	tr	greenish Siltstone, quartz carbonate veining, orange weathering, heavily oxidized
1318266	620504	6781051	2018-10-08	Chip	1	Outcrop	Siltstone	grey	qtz-carb	py	tr	greenish Siltstone, quartz carbonate veining, orange weathering, heavily oxidized, trace malachite

1318267	620514	6780992	2018-10-08	Chip	10	Outcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318268	620521	6780996	2018-10-08	Chip	10	Outcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318269	620526	6780997	2018-10-08	Chip	10	Outcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318270	620535	6780997	2018-10-08	Chip	10	Outcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318271	620550	6780998	2018-10-08	Chip	10	Subcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318272	620555	6781001	2018-10-08	Chip	10	Subcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318273	620560	6780999	2018-10-08	Chip	10	Subcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318274	620575	6780998	2018-10-08	Chip	10	Subcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, calcareous veins, trace pyrrhotite, magnetic (2)
1318275	620580	6781000	2018-10-08	Chip	5	Subcrop	Peridotite	black	serpentine	po+py	tr	Black to blue black fine grained peridotite, trace pyrrhotite, magnetic (2)
1318276	620583	6781004	2018-10-08	Chip	4	Outcrop	Peridotite	black	serpentine	po+py	tr	Black glassy fine grained peridotite, siltstone inclusions
1318277	620585	6780996	2018-10-08	Chip	2	Outcrop	Siltstone	grey	qtz-carb	po+py+cpy	tr	Orange weathering Siltstone at peridotite contact, quartz carbonate veining, limonite, heavily oxidized, trace malachite

1318278	620581	6780942	2018-10-08	Rock	grab	Outcrop	Gabbro	Green	qtz-carb	po+py+cpy	2-5%	Grey green gabbro, quartz carbonate veins, oxidized in part, yellow brown weathering, serpentine bands,
1318279	620586	6780944	2018-10-08	Rock	grab	Outcrop	Gabbro	Green	qtz-carb	po+py+cpy	2-10%	Grey green gabbro, quartz carbonate veins, oxidized in part, yellow brown weathering, serpentine bands,
1318280	620870	6780513	2018-11-08	Rock	grab	Outcrop	Siltstone	yellow	qtz-carb	py	tr	Yellow orange weathering Siltstone below gabbro sill, quartz carbonate veining, limonite
1318281	620870	6780513	2018-11-08	Rock	grab	Outcrop	Anorthosite	black		po	2-5%	Anorthosite, medium to coarse grained, dark grey, 2-5% po, magnetic
1318282	620767	6780649	2018-11-08	chip	2	Subcrop	Gabbro	green	qtz carb	po	2	Green gabbro, quartz carbonate veining, tr malachite
1318283	620769	6780651	2018-11-08	chip	2	Subcrop	Siltstone	orange	qtz carb	po+cpy	2	Heavily oxidized siltstone at lower gabbro contact, orange black weathering, tr cpy, malachite and azurite, paleosol
1318284	620768	6780651	2018-11-08	Chip	1	Subcrop	Siltstone	orange	qtz carb	po+cpy	2	Heavily oxidized siltstone at lower gabbro contact, orange black weathering, tr cpy, malachite and azurite, paleosol

1318285	620764	6780656	2018-11-08	Rock	grab	Subcrop	Siltstone	orange	qtz carb	po+cpy	2	Heavily oxidized siltstone at lower gabbro contact, orange black weathering, tr cpy, malachite and azurite, paleosol
1318286	620613	6780723	2018-11-08	Chip	10	Subcrop	Peridotite	black	serpentine	po	tr	black fine grained peridotite, magneic (2)
1318287	620617	6780730	2018-11-08	Chip	10	Subcrop	Gabbro	green	qtz carb	po	tr	dark green gabbro, magnetic (2)
1318288	620626	6780737	2018-11-08	Chip	10	Subcrop	Gabbro	green	qtz carb	po	tr	dark green, fine to medium grained gabbro, magnetic (2)
1318289	620634	6780740	2018-11-08	Chip	5	Subcrop	Gabbro	green	epidote	po	tr	dark green, fine to medium grained gabbro, magnetic (2)
1318290	620574	6780910	2018-11-08	Rock	grab	Subcrop	diorite	grey	epidote	po+py	10	medium grey diorite to quartz diorite, 5-10% net textured sulphides
1318291	620579	6780932	2018-11-08	Chip	4	Subcrop	Peridotite	black	carbonate	po	tr	black glassy peridotite, white weathering in part
1318292	620582	6780938	2018-11-08	Chip	2	Subcrop	Gabbro	green	qtz carb	po	tr	orange weathering fine to medium grained gabbro
1318293	620585	6780934	2018-11-08	Rock	grab	Subcrop	Gabbro	green	qtz carb	po	tr	orange weathering fine to medium grained gabbro
1318294	621135	6780383	2018-12-08	Rock	grab	Subcrop	Gabbro	green	qtz carb	po, malachite	tr	orange weathering fine to medium grained gabbro
1318295	621104	6780365	2018-12-08	Rock	grab	Subcrop	Gabbro	green	qtz carb	po, malachite	tr	green black gabbro, grey white weathering
1318296	621086	6780387	2018-12-08	Rock	grab	Subcrop	Gabbro	green	qtz carb	po, malachite	tr	green black gabbro, grey white weathering
1318297	621040	6780399	2018-12-08	Rock	grab	Subcrop	Gabbro	green	qtz carb	po, malachite	tr	green black gabbro, grey white weathering

1318298	621860	6780436	2018-12-08	Rock	grab	Subcrop	Gabbro	green	qtz carb	cpy+po, malachite	5	green black gabbro, grey white weathering. Malachite
1318299	621050	6780434	2018-12-08	Rock	grab	Subcrop	Peridotite	black	qtz carb	cpy+po, malachite	tr	orange to white weathering fine grained peridotite
1318300	621051	6780438	2018-12-08	Rock	grab	Subcrop	Peridotite	black	qtz carb	cpy+po, malachite	tr	orange to white weathering fine grained peridotite
1318301	621117	6780339	2018-12-08	Rock	grab	Outcrop	Anorthosite	grey	siliceous	po+cpy+py	10	Light to medium grey anorthosite, heavily oxidized, orange to black weathering, 10% disseminated and semi-massive pyrrhotite
1318302	621117	6780339	2018-12-08	Rock	2	Outcrop	Anorthosite	grey	siliceous	po+cpy+py	10	Light to medium grey anorthosite, heavily oxidized, orange to black weathering, 10% disseminated and semi-massive pyrrhotite
1318303	621117	6780339	2018-12-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po+cpy	5	black glassy peridotite, white weathering in part, serpentine veins, 5% disseminaed sulphides
1318304	621116	6780342	2018-12-08	Rock	grab	Outcrop	Anorthosite	grey	siliceous	po+py+cpy	5	orange brown weathering anorthosite, heavily oxidized, bands of semi-massive sulphide
1318305	621106	6780345	2018-12-08	Rock	grab	Outcrop	Anorthosite	grey	siliceous	po+py+cpy	5	orange brown weathering anorthosite, heavily oxidized, bands of semi-massive sulphide
1318306	621201	6780257	2018-12-08	Rock	grab	Outcrop	Gabbro	green	chloritic	po+py	5	brown to red weathering medium grained gabbro with 5-10% sulphides

1318307	621242	6780224	2018-12-08	Rock	grab	Outcrop	Gabbro	green	chloritic	po+py	5	brown to red weathering medium grained gabbro with 5-10% sulphides
1318308	621255	6780180	2018-12-08	Rock	grab	Outcrop	Gabbro	green	chloritic	po+py	5	rusty red weatheringfine grained gabbro-anorthosite, weak malachite
1318309	621052	6780439	2018-12-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po+py	5	black glassy peridotite, white weathering in part, serpentine veins, 5% disseminaed sulphides
1318310	621052	6780440	2018-12-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po+py	tr	black glassy peridotite, white weathering in part, serpentine veins, 5% disseminaed sulphides
1318311	617219	6785377	2018-13-08	Rock	grab	Outcrop	Gabbro	green	chloritic	po	tr	waxy green - black gabbro, quartz carbonate veins, magnetic (2-3), green brown weathering, chloritic faces
1318312	617264	6785400	2018-13-08	Rock	grab	Outcrop	Gabbro	green	chloritic	po	tr	foliated gabbro, slickensides, chloritic to serpentine, quartz carbonate veins, non magnetic
1318313	617314	6785343	2018-13-08	Rock	grab	Outcrop	Argillite	green	carbonate	py+born	tr	rusty red to brown weathering, common quartz carbonate veining, underlies gabbro sill

1318314	617619	6785010	2018-13-08	Rock	grab	Outcrop	Gabbro	green	chloritic	py	tr	Mapple Creek gabbro, light green, medium grained, pyrite lenses, trace quartz carbonate veining
1318315	617901	6784692	2018-13-08	Rock	grab	Outcrop	Peridotite	black	epidote	po	tr	Glassy black massive peridotite, magnetic (3), outcrops over 100m along ridge
1318316	617915	6784670	2018-13-08	Rock	grab	Outcrop	Peridotite	black	epidote	po	tr	Glassy black massive peridotite, magnetic (3), outcrops along ridge
1318317	617924	6784646	2018-13-08	Rock	grab	Outcrop	Peridotite	black	epidote	po	tr	Glassy black massive peridotite, magnetic (3), outcrops along ridge
1318318	618077	6784211	2018-13-08	Rock	grab	Outcrop	Peridotite	black	epidote	po	tr	Glassy black massive peridotite outcrops on east side of Nines Creek, magnetic (3), outcrops over 60m along bank
1318319	622916	6779287	2018-14-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po	tr	black glassy peridotite, white weathering in part, serpentine veins, 2% disseminaed sulphides
1318320	622907	6779233	2018-14-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po	tr	black glassy peridotite, white weathering in part, serpentine veins, 2% disseminaed sulphides
1318321	622865	6779097	2018-14-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po	tr	black glassy peridotite, white weathering in part, serpentine veins, 2% disseminaed sulphides

1318322	622807	6779131	2018-14-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po	tr	black glassy peridotite, white weathering in part, serpentine veins, 2% disseminaed sulphides
1318323	622489	6779236	2018-14-08	Rock	grab	Outcrop	Siltstone	grey	qtz-carb	po, malachite	tr	rusty red to brown weathering, common quartz carbonate veining, underlies peridotite sill
1318324	622451	6779288	2018-14-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po	tr	Rusty weathering gabbro, white weathering in part, serpentine veins, 2% disseminaed sulphides
1318325	622595	6779210	2018-14-08	Rock	grab	Outcrop	Gabbro	green	qtz-carb	po	tr	Rusty weathering peridotite, white weathering in part, serpentine veins, 2% disseminaed sulphides
1318326	622407	6779316	2018-14-08	Rock	grab	Outcrop	Peridotite	black	serpentine	po	tr	Rusty weathering peridotite, white weathering in part, serpentine veins, 2% disseminaed sulphides

APPENDIX B: Statement of Costs

DATE: August 17, 2018

LONGFORD EXPLORATION

SEND TO:
Group Ten Metals Inc.
#904-409 Granville Street
Vancouver, BC
Canada V6C 1T2
604 357-4790

Longford Exploration Services Ltd.
#460-688 West Hastings Street
Vancouver, BC
Canada V6B 1P1
778-809-7009

Spy 2018

Personnel			**Days**	**Rate**		**Line Total**
	Pgeo		9	$ 600.00	$	5,400.00
	Geologist		9	$ 500.00	$	4,500.00
	Junior Geologist		9	$ 350.00	$	3,150.00
	Student Geologist		9	$ 300.00	$	2,700.00
		total man days	36	Cat. Total	$	15,750.00
Food and Lodging			**Units**	**Rate**		**Line Total**
	Food		36	$ 60.00	$	2,160.00
	Lodging	Copper Joe Cabin	9	$ 250.00	$	2,250.00
				Cat. Total	$	4,410.00
Transportation			**Units/Days**	**Unit Price**		**Line Total**
	Truck	1 ton with safety and recovery gear	27	$ 140.00	$	3,780.00
	Trailer	18' 7000lb covered trailer	27	$ 50.00	$	1,350.00
	Fuel	per km for truck	1225	$ 0.55	$	673.75
	Jet Ranger		10.1	$ 975.00	$	9,847.50
	A-Star	Sheep survey	5.7	$ 1,775.00	$	10,117.50
	Jet Fuel - 206B		1111	$ 1.55	$	1,722.05
	Jet Fuel - AS350		760	$ 1.55	$	1,178.00
				Cat. Total	$	28,668.80
Equipment Rentals			**Units**	**Unit Price**		**Line Total**
	Electronics Kit	Radios, Sat phones, GPS, per man day	36	$ 20.00	$	720.00
	Portable XRF with Stand	Per Day	9	$ 177.42	$	1,596.78
				Cat. Total	$	2,316.78
Consumable			**Units**	**Unit Price**		**Line Total**
	Sample Bags	per man day	36	$ 10.00	$	360.00
	Flagging Tape	per man day	36	$ 5.00	$	180.00
	Office Consumables	per man day	36	$ 3.00	$	108.00
				Cat. Total	$	648.00
Analytical			**Units**	**Unit Price**		**Line Total**
	Analysis - Rock	PRP70-250, FA330, AQ300	76	$ 34.25	$	2,603.00
				Cat. Total	$	2,603.00
Post Field			**Units**	**Unit Price**		**Line Total**
	Sheep Survey	EDI	1	$ 12,000.00	$	12,000.00
	Assessment Report prep and work filing		1	$ 2,500.00	$	2,500.00
				Cat. Total	$	14,500.00
				Estimated Sub Total	$	68,896.58
				Management 15%	$	10,334.49
				SUB TOTAL	$	79,231.07
				GST 5 %	$	3,961.55
				Total	$	83,192.62

APPENDIX C: 2018 Assay Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 24, 2018
Report Date: March 18, 2019
Page: 1 of 4

CERTIFICATE OF ANALYSIS WHI18000744.1

CLIENT JOB INFORMATION

Project: 2018-Spy
Shipment ID:
P.O. Number
Number of Samples: 76

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	76	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA330	76	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	76	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	76	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	76	Per sample shipping charges for branch shipments			VAN
PULSW	76	Extra Wash with Silica between each sample		Completed	WHI

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Vedran Pobric

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Spy
Report Date: March 18, 2019

CERTIFICATE OF ANALYSIS WHI18000744.1

	Method	WGHT	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
1318251	Rock	2.74	4	3	5	3	1087	<3	36	0.7	51	34	415	7.82	21	<2	6	<0.5	<3	<3	183
1318252	Rock	2.22	18	13	<2	2	706	13	46	2.2	76	41	443	27.47	8	<2	90	<0.5	3	<3	35
1318253	Rock	1.49	5	10	8	<1	98	<3	46	0.6	53	23	497	4.13	<2	<2	16	<0.5	<3	<3	93
1318254	Rock	1.27	3	<3	4	<1	56	<3	32	<0.3	124	25	245	2.61	<2	<2	60	<0.5	<3	<3	34
1318255	Rock	1.29	8	41	60	<1	173	<3	50	<0.3	1171	129	1211	8.70	<2	<2	10	0.9	<3	<3	14
1318256	Rock	5.85	4	18	16	<1	61	<3	43	0.3	324	40	509	4.37	3	<2	23	<0.5	<3	<3	60
1318257	Rock	7.85	3	14	7	<1	75	<3	45	0.3	196	36	422	4.10	<2	<2	33	0.6	<3	<3	51
1318258	Rock	7.39	4	5	5	<1	104	<3	46	0.5	75	23	329	3.64	<2	<2	20	<0.5	<3	<3	79
1318259	Rock	7.48	4	6	6	<1	116	<3	54	0.6	78	25	334	4.05	<2	<2	20	<0.5	<3	<3	89
1318260	Rock	6.14	5	7	6	<1	106	<3	51	<0.3	69	24	466	4.30	<2	<2	17	0.5	<3	<3	81
1318261	Rock	6.47	35	30	39	<1	33	<3	53	<0.3	751	63	905	5.87	16	<2	8	0.6	<3	<3	39
1318262	Rock	4.81	10	54	60	<1	90	<3	50	0.7	657	66	683	5.02	2	<2	9	<0.5	<3	<3	53
1318263	Rock	4.39	14	110	163	<1	435	<3	50	0.8	717	83	560	5.77	10	<2	28	<0.5	<3	<3	59
1318264	Rock	5.54	23	262	303	<1	531	<3	34	0.7	1125	91	468	5.91	22	<2	15	0.6	<3	<3	60
1318265	Rock	5.31	10	296	342	<1	321	<3	28	0.6	760	55	392	5.50	8	<2	20	<0.5	<3	<3	49
1318266	Rock	5.78	54	389	439	1	768	<3	35	1.4	416	39	353	7.67	3	<2	31	<0.5	<3	<3	71
1318267	Rock	7.19	4	36	62	<1	23	<3	50	<0.3	1203	92	926	7.02	7	<2	9	<0.5	<3	<3	47
1318268	Rock	8.47	4	46	83	<1	20	<3	51	<0.3	1646	110	986	7.89	7	<2	4	0.7	<3	<3	41
1318269	Rock	7.96	<2	20	32	<1	12	<3	57	<0.3	1449	104	1010	7.66	8	<2	3	0.9	<3	<3	41
1318270	Rock	10.44	5	29	60	<1	16	<3	53	<0.3	1636	114	1012	7.99	11	<2	3	<0.5	<3	<3	41
1318271	Rock	9.14	6	38	70	<1	24	<3	50	<0.3	1618	111	1003	7.52	11	<2	4	<0.5	<3	<3	44
1318272	Rock	7.85	5	35	43	<1	29	<3	55	<0.3	1605	111	995	7.48	<2	<2	4	<0.5	<3	<3	42
1318273	Rock	11.70	4	34	34	<1	26	<3	62	<0.3	1434	100	978	7.18	7	<2	5	0.6	<3	<3	47
1318274	Rock	6.21	8	34	47	<1	137	<3	55	<0.3	1464	112	947	7.51	<2	<2	7	0.7	<3	<3	45
1318275	Rock	6.85	12	32	48	<1	133	<3	52	<0.3	1364	106	902	7.39	<2	<2	7	0.7	<3	<3	45
1318276	Rock	5.81	17	33	53	<1	183	<3	51	<0.3	1177	95	791	6.53	<2	<2	9	0.5	<3	4	49
1318277	Rock	6.41	29	68	158	<1	695	<3	30	0.9	493	56	374	4.76	20	<2	19	<0.5	<3	<3	77
1318278	Rock	2.81	25	116	231	<1	797	<3	65	1.0	656	83	207	3.90	<2	<2	8	0.6	<3	<3	49
1318279	Rock	2.31	15	42	89	<1	1088	7	174	1.1	866	91	171	3.55	6	<2	9	1.1	<3	<3	29
1318280	Rock	1.55	18	35	94	1	325	<3	32	<0.3	565	40	218	4.04	3	<2	40	<0.5	<3	<3	94

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Spy
Report Date: March 18, 2019

CERTIFICATE OF ANALYSIS WHI18000744.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318251	Rock	0.90	0.079	8	81	1.63	11	0.006	<20	2.04	0.05	<0.01	<2	1.10	<1	<5	8	8
1318252	Rock	10.53	>5	32	13	1.09	34	0.005	<20	1.87	<0.01	0.02	<2	>10	<1	<5	<5	<5
1318253	Rock	1.44	0.025	3	26	1.56	107	0.157	<20	2.52	0.07	0.12	<2	<0.05	<1	<5	<5	<5
1318254	Rock	1.35	0.023	2	171	2.54	53	0.080	<20	2.86	0.20	0.10	<2	<0.05	<1	<5	<5	<5
1318255	Rock	0.36	0.013	3	198	19.51	18	0.026	63	1.06	0.02	0.05	<2	0.07	<1	<5	<5	<5
1318256	Rock	2.19	0.028	4	155	4.85	47	0.115	34	2.77	0.10	0.05	<2	<0.05	<1	<5	<5	<5
1318257	Rock	1.44	0.024	3	106	3.54	40	0.110	<20	3.28	0.16	0.05	<2	<0.05	<1	<5	<5	<5
1318258	Rock	2.52	0.033	2	51	2.00	38	0.161	202	3.04	0.07	0.05	<2	<0.05	<1	<5	<5	<5
1318259	Rock	1.91	0.033	2	63	2.20	37	0.160	26	2.92	0.07	0.06	<2	<0.05	<1	<5	<5	<5
1318260	Rock	2.99	0.041	3	80	3.52	28	0.207	1677	3.93	0.05	0.04	<2	<0.05	<1	<5	<5	<5
1318261	Rock	1.07	0.014	3	382	10.49	117	0.110	124	2.96	<0.01	0.06	<2	0.06	<1	<5	<5	<5
1318262	Rock	0.75	0.028	4	1108	6.91	72	0.134	24	3.25	<0.01	0.03	<2	0.09	<1	<5	<5	<5
1318263	Rock	1.00	0.052	5	708	5.07	102	0.164	<20	3.47	0.10	0.05	<2	0.48	<1	<5	<5	<5
1318264	Rock	0.92	0.037	4	607	4.39	108	0.187	56	2.98	0.04	0.03	<2	0.65	<1	<5	<5	<5
1318265	Rock	1.10	0.034	4	536	3.95	115	0.154	619	2.88	0.07	0.05	<2	0.40	<1	<5	<5	<5
1318266	Rock	1.16	0.047	5	386	3.07	124	0.193	<20	3.19	0.11	0.10	<2	0.31	<1	<5	<5	5
1318267	Rock	0.87	0.015	3	612	14.52	166	0.076	147	1.71	0.01	0.09	<2	0.06	<1	<5	<5	7
1318268	Rock	0.53	0.013	3	618	17.97	201	0.062	116	1.43	<0.01	0.11	<2	0.09	<1	<5	<5	7
1318269	Rock	0.57	0.020	3	619	17.95	195	0.061	99	1.53	<0.01	0.10	<2	0.06	<1	<5	<5	7
1318270	Rock	0.37	0.019	3	635	18.73	294	0.074	105	1.64	<0.01	0.18	<2	0.05	<1	<5	<5	7
1318271	Rock	0.38	0.018	3	623	17.74	264	0.086	104	1.63	<0.01	0.18	<2	0.06	<1	<5	<5	7
1318272	Rock	0.28	0.016	3	607	17.70	222	0.082	102	1.72	<0.01	0.16	<2	<0.05	<1	<5	<5	7
1318273	Rock	0.49	0.021	4	612	16.83	209	0.078	89	1.64	0.01	0.10	<2	<0.05	<1	<5	<5	8
1318274	Rock	0.58	0.019	3	532	16.60	153	0.074	107	1.73	0.02	0.18	<2	0.08	<1	<5	<5	6
1318275	Rock	0.57	0.019	3	539	15.31	132	0.071	112	1.95	0.01	0.18	<2	0.07	<1	<5	<5	6
1318276	Rock	0.54	0.021	3	603	11.89	177	0.085	91	2.43	0.01	0.17	<2	0.06	<1	<5	<5	5
1318277	Rock	1.84	0.042	3	322	3.67	118	0.165	1585	2.67	0.04	0.18	<2	0.17	<1	<5	<5	<5
1318278	Rock	3.00	0.024	2	214	1.94	8	0.117	743	3.02	0.01	<0.01	<2	0.72	<1	<5	<5	<5
1318279	Rock	5.53	0.018	2	153	1.81	5	0.065	>2000	3.23	0.01	<0.01	<2	0.99	<1	<5	<5	<5
1318280	Rock	1.12	0.063	7	156	1.86	69	0.200	<20	1.90	0.18	0.13	<2	0.50	<1	<5	<5	<5

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Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Spy
Report Date: March 18, 2019

CERTIFICATE OF ANALYSIS WHI18000744.1

Method		WGHT	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
1318281	Rock	1.43	8	14	39	<1	177	<3	45	<0.3	1285	93	863	6.45	<2	<2	37	0.9	<3	<3	23
1318282	Rock	6.23	15	55	25	<1	442	<3	53	0.8	400	53	572	4.45	5	<2	23	0.5	<3	<3	69
1318283	Rock	5.34	250	1256	315	<1	5451	6	42	2.6	1404	38	376	7.55	11	3	11	0.6	<3	<3	122
1318284	Rock	5.14	24	43	31	<1	660	<3	36	0.7	241	27	378	5.45	4	<2	13	<0.5	<3	<3	104
1318285	Rock	3.45	8	7	15	<1	297	<3	38	0.7	241	29	354	4.00	<2	<2	18	<0.5	<3	<3	80
1318286	Rock	4.44	8	27	41	<1	169	<3	49	<0.3	961	101	953	7.21	<2	<2	16	0.8	<3	3	46
1318287	Rock	5.35	8	21	41	<1	142	<3	47	<0.3	876	83	882	6.21	<2	<2	24	<0.5	<3	<3	45
1318288	Rock	4.44	7	10	18	<1	118	<3	46	0.5	347	44	559	4.50	<2	<2	28	<0.5	<3	<3	66
1318289	Rock	3.14	27	<3	8	<1	116	<3	37	0.7	131	30	431	3.93	<2	<2	25	<0.5	<3	<3	90
1318290	Rock	1.75	3	<3	5	1	78	<3	30	0.5	18	25	285	5.49	<2	<2	10	<0.5	<3	<3	159
1318291	Rock	4.61	8	41	70	<1	256	<3	47	<0.3	1589	112	900	7.10	<2	<2	6	<0.5	<3	<3	35
1318292	Rock	6.26	40	158	258	<1	857	<3	77	1.1	585	66	234	4.45	4	<2	9	0.9	<3	<3	36
1318293	Rock	0.93	17	64	111	<1	526	7	146	0.5	457	45	116	2.01	<2	<2	8	0.8	<3	<3	24
1318294	Rock	0.88	280	536	306	2	5234	<3	92	0.6	1144	106	655	6.28	3	<2	17	0.5	<3	<3	52
1318295	Rock	1.83	15	68	67	<1	146	<3	51	<0.3	1049	89	814	6.55	<2	<2	44	<0.5	<3	<3	27
1318296	Rock	1.28	<2	14	20	<1	109	<3	48	<0.3	1146	97	848	6.83	<2	<2	38	<0.5	<3	<3	35
1318297	Rock	1.04	5	19	21	<1	114	<3	40	<0.3	799	75	616	5.97	<2	<2	45	0.8	<3	<3	35
1318298	Rock	1.53	565	1662	786	<1	8434	<3	74	6.4	1067	76	489	5.42	3	<2	14	<0.5	<3	<3	47
1318299	Rock	1.69	124	352	211	<1	2014	<3	90	1.1	889	106	748	7.30	<2	<2	43	0.7	<3	<3	29
1318300	Rock	1.48	84	250	186	<1	1676	<3	38	1.1	750	63	374	4.88	<2	<2	25	<0.5	<3	<3	48
1318301	Rock	1.05	44	185	349	<1	597	5	54	1.7	558	68	344	4.98	4	<2	79	0.7	<3	<3	37
1318302	Rock	6.37	47	164	289	1	725	<3	60	1.3	364	42	420	5.83	3	<2	53	0.8	<3	<3	59
1318303	Rock	2.05	12	56	98	<1	228	<3	51	0.4	1357	122	880	7.73	<2	<2	26	0.8	<3	<3	45
1318304	Rock	1.62	57	264	421	4	1073	10	72	1.5	961	160	396	10.78	4	<2	19	<0.5	<3	<3	70
1318305	Rock	0.75	21	73	135	<1	389	<3	56	0.8	1397	130	866	7.81	<2	<2	42	0.6	<3	<3	29
1318306	Rock	2.19	33	76	144	<1	607	<3	37	1.2	615	83	303	4.49	<2	<2	17	0.5	<3	<3	27
1318307	Rock	1.29	12	18	52	1	278	<3	44	0.7	533	62	519	5.00	2	<2	40	<0.5	<3	<3	54
1318308	Rock	1.91	36	157	270	<1	1155	<3	61	1.3	770	108	324	5.48	<2	<2	19	0.7	<3	<3	55
1318309	Rock	1.45	13	28	16	<1	195	<3	77	0.4	257	67	690	5.67	<2	<2	42	<0.5	<3	<3	39
1318310	Rock	1.30	53	230	172	<1	1479	<3	25	<0.3	1110	75	618	3.56	14	2	50	<0.5	<3	<3	28

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Project: 2018-Spy
Report Date: March 18, 2019

CERTIFICATE OF ANALYSIS WHI18000744.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318281	Rock	0.76	0.025	4	207	12.35	52	0.044	55	2.37	0.10	0.12	<2	0.11	<1	<5	<5	<5
1318282	Rock	1.82	0.037	5	299	4.76	68	0.141	725	3.38	0.11	0.17	<2	<0.05	<1	<5	<5	<5
1318283	Rock	1.38	0.083	8	56	1.23	59	0.208	<20	1.96	0.06	0.04	<2	0.98	<1	<5	<5	10
1318284	Rock	1.28	0.040	3	51	1.80	66	0.204	<20	2.40	0.08	0.10	<2	0.17	<1	<5	<5	7
1318285	Rock	1.70	0.020	1	31	1.73	115	0.172	<20	2.73	0.09	0.17	<2	0.06	<1	<5	<5	5
1318286	Rock	1.58	0.019	4	428	14.25	41	0.059	79	1.59	0.02	0.07	<2	<0.05	<1	<5	<5	8
1318287	Rock	1.69	0.021	4	203	11.01	50	0.078	49	1.81	0.03	0.09	<2	<0.05	<1	<5	<5	<5
1318288	Rock	1.16	0.025	4	132	5.20	59	0.113	28	2.50	0.09	0.13	<2	<0.05	<1	<5	<5	<5
1318289	Rock	1.52	0.036	5	95	2.81	56	0.126	<20	2.55	0.10	0.10	<2	<0.05	<1	<5	<5	5
1318290	Rock	0.84	0.120	9	31	1.33	32	0.416	99	1.75	0.07	0.06	<2	1.10	<1	<5	<5	8
1318291	Rock	0.48	0.016	3	414	15.95	65	0.050	161	1.66	<0.01	0.08	<2	0.12	<1	<5	<5	6
1318292	Rock	2.65	0.017	2	232	2.68	14	0.084	1711	2.93	0.02	<0.01	<2	0.42	<1	<5	<5	<5
1318293	Rock	6.99	0.020	1	78	0.79	5	0.069	>2000	2.60	<0.01	<0.01	<2	0.52	<1	<5	<5	<5
1318294	Rock	0.78	0.016	3	360	4.67	94	0.072	45	2.81	0.03	0.28	<2	1.06	<1	<5	<5	<5
1318295	Rock	1.03	0.024	4	88	10.62	44	0.052	41	2.20	0.18	0.15	<2	0.20	<1	<5	<5	<5
1318296	Rock	0.82	0.026	4	126	13.09	47	0.057	67	1.85	0.15	0.20	<2	<0.05	<1	<5	<5	<5
1318297	Rock	0.74	0.024	4	169	8.97	62	0.069	44	3.33	0.11	0.23	<2	0.08	<1	<5	<5	<5
1318298	Rock	0.50	0.021	3	172	4.90	73	0.087	29	2.88	0.05	0.22	<2	0.82	<1	<5	<5	<5
1318299	Rock	1.00	0.015	2	143	7.34	60	0.035	58	2.71	0.12	0.11	<2	0.38	<1	<5	<5	<5
1318300	Rock	0.73	0.048	5	238	3.32	108	0.126	<20	2.41	0.06	0.30	<2	0.69	<1	<5	<5	<5
1318301	Rock	1.49	0.113	10	135	2.20	132	0.121	<20	2.78	0.26	0.23	<2	1.59	<1	<5	<5	<5
1318302	Rock	1.15	0.049	7	124	2.17	98	0.150	<20	2.36	0.19	0.15	<2	1.24	<1	<5	<5	<5
1318303	Rock	0.55	0.027	4	201	12.67	30	0.063	79	2.50	0.07	0.14	<2	0.37	<1	<5	<5	5
1318304	Rock	1.43	0.045	8	124	1.40	57	0.192	27	1.96	0.06	0.07	<2	4.80	<1	<5	<5	<5
1318305	Rock	0.98	0.038	5	127	12.69	93	0.054	28	2.09	0.15	0.22	<2	0.68	<1	<5	<5	<5
1318306	Rock	1.43	0.027	4	217	3.31	32	0.106	<20	2.45	0.04	0.07	<2	1.14	<1	<5	<5	<5
1318307	Rock	0.95	0.038	6	209	5.05	68	0.153	22	2.02	0.13	0.15	<2	0.66	<1	<5	<5	<5
1318308	Rock	0.72	0.020	3	414	2.87	37	0.172	<20	2.01	0.06	0.10	<2	1.97	<1	<5	<5	<5
1318309	Rock	0.93	0.025	3	203	6.90	83	0.050	71	2.67	0.12	0.20	<2	<0.05	<1	<5	<5	<5
1318310	Rock	7.02	1.313	58	23	0.71	48	0.050	27	2.56	0.08	0.14	<2	0.12	<1	<5	7	<5

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Project: 2018-Spy
Report Date: March 18, 2019

CERTIFICATE OF ANALYSIS WHI18000744.1

	Method	WGHT	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
1318311	Rock	1.22	4	16	27	<1	41	<3	34	<0.3	1542	113	1044	7.34	<2	<2	65	<0.5	<3	<3	36
1318312	Rock	1.73	3	7	12	<1	94	<3	42	0.7	65	26	563	3.98	<2	<2	27	<0.5	<3	<3	110
1318313	Rock	2.42	4	<3	<2	<1	21	4	72	1.3	31	16	725	4.58	<2	<2	26	<0.5	<3	<3	139
1318314	Rock	1.78	3	<3	<2	<1	69	<3	62	0.6	17	18	436	3.82	<2	<2	13	<0.5	<3	<3	136
1318315	Rock	1.22	42	88	63	<1	948	<3	63	0.4	1811	129	985	8.73	<2	<2	17	<0.5	<3	<3	28
1318316	Rock	1.39	6	27	43	<1	237	<3	53	<0.3	1140	127	1157	8.70	<2	<2	17	<0.5	<3	<3	25
1318317	Rock	1.31	31	161	95	<1	1070	<3	51	0.7	1786	144	1203	8.26	<2	<2	14	<0.5	<3	<3	16
1318318	Rock	1.48	6	29	31	<1	112	<3	42	<0.3	1608	132	1223	8.10	<2	<2	4	<0.5	<3	<3	28
1318319	Rock	1.46	4	4	4	<1	177	<3	29	0.8	245	28	308	2.57	<2	<2	29	<0.5	<3	<3	54
1318320	Rock	1.36	9	10	32	<1	240	5	71	<0.3	1107	89	774	6.20	2	<2	44	<0.5	<3	<3	39
1318321	Rock	2.38	10	<3	16	1	503	6	37	1.1	127	22	442	4.86	3	<2	32	<0.5	<3	<3	120
1318322	Rock	1.70	8	<3	3	23	2692	<3	64	2.4	28	125	400	7.22	19	<2	20	0.8	<3	<3	11
1318323	Rock	1.51	35	351	620	3	2944	<3	19	2.3	3017	102	271	3.93	<2	<2	34	1.0	<3	<3	77
1318324	Rock	1.94	4	8	16	<1	164	<3	32	0.8	427	30	422	3.57	14	<2	26	<0.5	<3	<3	68
1318325	Rock	2.51	3	7	<2	<1	78	<3	65	<0.3	327	86	1026	7.72	<2	<2	41	<0.5	<3	<3	63
1318326	Rock	2.24	5	15	22	<1	59	<3	51	<0.3	1495	131	1337	8.37	<2	<2	65	<0.5	<3	<3	28

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Project: 2018-Spy
Report Date: March 18, 2019

CERTIFICATE OF ANALYSIS WHI18000744.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318311	Rock	2.86	0.015	4	695	14.48	269	0.015	91	1.79	<0.01	0.02	<2	<0.05	<1	<5	<5	11
1318312	Rock	1.39	0.033	3	36	1.95	54	0.133	<20	2.79	0.13	0.13	<2	<0.05	<1	<5	<5	6
1318313	Rock	1.28	0.038	6	81	2.13	335	0.247	<20	2.10	0.05	0.04	<2	0.94	<1	<5	<5	13
1318314	Rock	1.58	0.055	6	28	1.23	343	0.178	155	2.25	0.05	0.01	<2	0.11	<1	<5	<5	<5
1318315	Rock	0.37	0.016	4	371	16.14	68	0.061	126	1.33	0.04	0.15	<2	0.21	<1	<5	<5	6
1318316	Rock	0.39	0.021	4	237	17.12	41	0.053	127	1.30	0.04	0.13	<2	0.07	<1	<5	<5	5
1318317	Rock	0.41	0.016	3	196	18.31	24	0.033	126	1.38	0.02	0.06	<2	0.17	<1	<5	<5	6
1318318	Rock	0.74	0.012	3	520	20.26	9	0.047	71	1.37	<0.01	0.03	<2	0.08	<1	<5	<5	8
1318319	Rock	1.61	0.042	4	152	2.77	174	0.206	<20	2.20	0.12	0.13	<2	<0.05	<1	<5	<5	<5
1318320	Rock	0.73	0.032	6	342	10.45	167	0.106	121	2.78	0.19	0.58	<2	0.12	<1	<5	<5	<5
1318321	Rock	1.67	0.242	13	91	1.71	84	0.126	<20	2.40	0.09	0.18	<2	0.09	<1	<5	<5	11
1318322	Rock	2.49	0.081	6	4	0.56	55	0.031	23	2.12	0.03	0.06	<2	2.78	<1	<5	<5	<5
1318323	Rock	3.91	0.091	11	180	3.07	15	0.225	28	2.70	<0.01	0.02	<2	0.48	<1	<5	<5	7
1318324	Rock	3.70	0.061	8	157	4.45	17	0.180	24	3.01	<0.01	0.03	<2	<0.05	<1	<5	<5	5
1318325	Rock	1.05	0.025	4	395	9.77	110	0.091	74	2.68	0.07	0.28	<2	<0.05	<1	<5	<5	6
1318326	Rock	1.77	0.017	4	342	15.75	95	0.048	134	1.60	0.02	0.10	<2	<0.05	<1	<5	<5	6

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Project: 2018-Spy
Report Date: March 18, 2019

QUALITY CONTROL REPORT WHI18000744.1

	Method	WGHT	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
Pulp Duplicates																					
1318269	Rock	7.96	<2	20	32	<1	12	<3	57	<0.3	1449	104	1010	7.66	8	<2	3	0.9	<3	<3	41
REP 1318269	QC		2	20	36																
1318274	Rock	6.21	8	34	47	<1	137	<3	55	<0.3	1464	112	947	7.51	<2	<2	7	0.7	<3	<3	45
REP 1318274	QC					<1	138	<3	55	<0.3	1386	109	928	7.38	<2	<2	7	0.8	<3	<3	44
1318280	Rock	1.55	18	35	94	1	325	<3	32	<0.3	565	40	218	4.04	3	<2	40	<0.5	<3	<3	94
REP 1318280	QC		15	31	94																
1318309	Rock	1.45	13	28	16	<1	195	<3	77	0.4	257	67	690	5.67	<2	<2	42	<0.5	<3	<3	39
REP 1318309	QC					<1	189	<3	73	0.4	247	65	643	5.33	<2	<2	39	0.5	<3	<3	38
1318313	Rock	2.42	4	<3	<2	<1	21	4	72	1.3	31	16	725	4.58	<2	<2	26	<0.5	<3	<3	139
REP 1318313	QC		4	<3	5																
1318326	Rock	2.24	5	15	22	<1	59	<3	51	<0.3	1495	131	1337	8.37	<2	<2	65	<0.5	<3	<3	28
REP 1318326	QC		4	9	23	<1	58	<3	51	<0.3	1487	130	1330	8.32	<2	<2	64	<0.5	<3	<3	28
Core Reject Duplicates																					
1318256	Rock	5.85	4	18	16	<1	61	<3	43	0.3	324	40	509	4.37	3	<2	23	<0.5	<3	<3	60
DUP 1318256	QC		4	15	19	<1	61	<3	44	0.4	340	42	534	4.60	3	<2	23	<0.5	<3	<3	61
1318290	Rock	1.75	3	<3	5	1	78	<3	30	0.5	18	25	285	5.49	<2	<2	10	<0.5	<3	<3	159
DUP 1318290	QC		3	<3	<2	1	78	<3	32	0.8	19	26	293	5.45	<2	<2	11	<0.5	<3	<3	168
1318324	Rock	1.94	4	8	16	<1	164	<3	32	0.8	427	30	422	3.57	14	<2	26	<0.5	<3	<3	68
DUP 1318324	QC		4	4	11	<1	156	<3	32	0.6	423	31	408	3.45	14	<2	25	<0.5	<3	<3	66
Reference Materials																					
STD DS11	Standard					13	136	124	326	1.7	70	12	947	2.89	40	6	58	2.3	7	12	44
STD DS11	Standard					14	151	131	348	1.7	74	13	1033	3.17	44	7	64	2.4	7	13	48
STD DS11	Standard					13	145	133	352	1.7	73	12	1032	3.11	44	7	63	2.4	7	12	47
STD OREAS45EA	Standard					3	691	14	32	0.6	376	49	392	21.40	11	10	3	<0.5	<3	4	305
STD OREAS45EA	Standard					3	705	12	31	0.6	372	50	401	24.33	12	10	4	0.7	<3	<3	308
STD OREAS45EA	Standard					3	706	14	32	0.4	387	48	405	22.24	10	10	3	<0.5	<3	<3	316
STD PD05	Standard		516	434	615																
STD PD05	Standard		500	427	600																

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Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Spy
Report Date: March 18, 2019

QUALITY CONTROL REPORT WHI18000744.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																		
1318269	Rock	0.57	0.020	3	619	17.95	195	0.061	99	1.53	<0.01	0.10	<2	0.06	<1	<5	<5	7
REP 1318269	QC																	
1318274	Rock	0.58	0.019	3	532	16.60	153	0.074	107	1.73	0.02	0.18	<2	0.08	<1	<5	<5	6
REP 1318274	QC	0.57	0.020	3	515	16.51	147	0.074	109	1.68	0.01	0.18	<2	0.08	<1	<5	<5	6
1318280	Rock	1.12	0.063	7	156	1.86	69	0.200	<20	1.90	0.18	0.13	<2	0.50	<1	<5	<5	<5
REP 1318280	QC																	
1318309	Rock	0.93	0.025	3	203	6.90	83	0.050	71	2.67	0.12	0.20	<2	<0.05	<1	<5	<5	<5
REP 1318309	QC	0.87	0.024	3	194	6.51	79	0.046	70	2.49	0.11	0.19	<2	<0.05	<1	<5	<5	<5
1318313	Rock	1.28	0.038	6	81	2.13	335	0.247	<20	2.10	0.05	0.04	<2	0.94	<1	<5	<5	13
REP 1318313	QC																	
1318326	Rock	1.77	0.017	4	342	15.75	95	0.048	134	1.60	0.02	0.10	<2	<0.05	<1	<5	<5	6
REP 1318326	QC	1.76	0.017	4	345	15.90	94	0.048	133	1.59	0.02	0.10	<2	<0.05	<1	<5	<5	6
Core Reject Duplicates																		
1318256	Rock	2.19	0.028	4	155	4.85	47	0.115	34	2.77	0.10	0.05	<2	<0.05	<1	<5	<5	<5
DUP 1318256	QC	2.16	0.029	4	159	5.14	48	0.114	36	2.86	0.10	0.05	<2	<0.05	<1	<5	<5	5
1318290	Rock	0.84	0.120	9	31	1.33	32	0.416	99	1.75	0.07	0.06	<2	1.10	<1	<5	<5	8
DUP 1318290	QC	0.86	0.126	10	34	1.35	36	0.419	99	1.82	0.08	0.06	<2	1.05	<1	<5	<5	9
1318324	Rock	3.70	0.061	8	157	4.45	17	0.180	24	3.01	<0.01	0.03	<2	<0.05	<1	<5	<5	5
DUP 1318324	QC	3.53	0.061	8	152	4.35	18	0.166	24	2.88	<0.01	0.03	<2	<0.05	<1	<5	<5	5
Reference Materials																		
STD DS11	Standard	0.96	0.062	15	58	0.76	388	0.083	<20	1.02	0.07	0.36	3	0.26	<1	5	<5	<5
STD DS11	Standard	1.06	0.069	17	60	0.82	424	0.093	<20	1.14	0.07	0.40	3	0.30	<1	6	<5	<5
STD DS11	Standard	1.05	0.067	16	57	0.82	414	0.089	<20	1.11	0.07	0.39	2	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	0.03	0.029	8	910	0.09	148	0.100	<20	3.33	0.02	0.06	<2	<0.05	<1	<5	11	84
STD OREAS45EA	Standard	0.03	0.030	8	919	0.09	151	0.100	<20	3.42	0.02	0.06	<2	<0.05	<1	<5	<5	86
STD OREAS45EA	Standard	0.03	0.030	8	959	0.10	153	0.103	<20	3.39	0.02	0.06	<2	<0.05	<1	<5	13	88
STD PD05	Standard																	
STD PD05	Standard																	

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		WGHT Wgt kg 0.01	FA330 Au ppb 2	FA330 Pt ppb 3	FA330 Pd ppb 2	AQ300 Mo ppm 1	AQ300 Cu ppm 1	AQ300 Pb ppm 3	AQ300 Zn ppm 1	AQ300 Ag ppm 0.3	AQ300 Ni ppm 1	AQ300 Co ppm 1	AQ300 Mn ppm 2	AQ300 Fe % 0.01	AQ300 As ppm 2	AQ300 Th ppm 2	AQ300 Sr ppm 1	AQ300 Cd ppm 0.5	AQ300 Sb ppm 3	AQ300 Bi ppm 3	AQ300 V ppm 1
STD PD05	Standard		496	420	602																
STD PG04	Standard		1003	921	1234																
STD PG04	Standard		1027	950	1277																
STD PG04	Standard		1031	942	1254																
STD PG04	Standard		1012	934	1256																
STD OREAS45EA Expected						1.6	709	14.3	31.4	0.26	381	52	400	22.65	11	10.7	4.05				303
STD DS11 Expected						13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50
STD PD05 Expected			519	430	596																
STD PG04 Expected			996	910	1210																
BLK	Blank		2	<3	<2																
BLK	Blank		3	<3	<2																
BLK	Blank					<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1
BLK	Blank					<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1
BLK	Blank					<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1
BLK	Blank		<2	<3	<2																
BLK	Blank		3	<3	2																
BLK	Blank		<2	<3	<2																
BLK	Blank		<2	<3	<2																
BLK	Blank		3	<3	<2																
BLK	Blank		<2	3	2																
BLK	Blank		2	<3	2																
Prep Wash																					
ROCK-WHI	Prep Blank		2	<3	<2	<1	6	<3	28	<0.3	1	3	461	1.69	<2	2	18	<0.5	<3	<3	22
ROCK-WHI	Prep Blank		<2	<3	<2	<1	11	<3	29	<0.3	<1	3	475	1.73	<2	2	18	<0.5	<3	<3	22

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		AQ300 Ca % 0.01	AQ300 P % 0.001	AQ300 La ppm 1	AQ300 Cr ppm 1	AQ300 Mg % 0.01	AQ300 Ba ppm 1	AQ300 Ti % 0.001	AQ300 B ppm 20	AQ300 Al % 0.01	AQ300 Na % 0.01	AQ300 K % 0.01	AQ300 W ppm 2	AQ300 S % 0.05	AQ300 Hg ppm 1	AQ300 Tl ppm 5	AQ300 Ga ppm 5	AQ300 Sc ppm 5
STD PD05	Standard																	
STD PG04	Standard																	
STD PG04	Standard																	
STD PG04	Standard																	
STD PG04	Standard																	
STD OREAS45EA Expected		0.036	0.029	7.06	849	0.095	148	0.0984		3.32	0.02	0.053		0.036			12.4	78
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD PD05 Expected																		
STD PG04 Expected																		
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
Prep Wash																		
ROCK-WHI	Prep Blank	0.55	0.038	5	3	0.45	46	0.064	<20	0.74	0.05	0.06	<2	0.07	<1	<5	<5	<5
ROCK-WHI	Prep Blank	0.59	0.045	5	3	0.46	46	0.064	<20	0.79	0.05	0.07	<2	0.06	<1	<5	<5	<5