

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological, geochemical

TOTAL COST: \$81,937.31

AUTHOR(S): Ron Voordouw, Ian Carr SIGNATURE(S): Signed and sealed: "Ron Voordouw", "Ian Carr"

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): \_\_\_\_\_ YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 12 Aug to 6 Sep 2018

PROPERTY NAME: Scottie Gold

CLAIM NAME(S) (on which the work was done): SCOT #4 (Record ID 250851), SUM #1 (338685), BOW 1 (251148)

COMMODITIES SOUGHT: Gold, silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104B 034 (Scottie Gold)

MINING DIVISION: Skeena NTS/BCGS: 104B/01

LATITUDE: 56 ° 13 ' \_\_\_\_\_ " LONGITUDE: 130 ° 05 ' \_\_\_\_\_ " (at centre of work)

OWNER(S):  
1) Scottie Resources Corp (formerly Rotation Minerals Ltd) 2) \_\_\_\_\_

MAILING ADDRESS:  
PO box 48202, Bentall, Vancouver, BC, V7X 1H8

OPERATOR(S) [who paid for the work]:  
1) Scottie Resources Corp (formerly Rotation Minerals Ltd) 2) \_\_\_\_\_

MAILING ADDRESS:  
PO box 48202, Bentall, Vancouver, BC, V7X 1H8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):  
Scottie Gold mine, Hazelton Group, Unuk River andesite, Texas plutonic suite, Summit Lake stock, intrusion related gold mesothermal, shear vein, sulphide-quartz-carbonate veins

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: ARIS 16768, 36674, 20987

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping			
Photo interpretation			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil			
Silt			
Rock 39		338685, 250851	\$31,329.09
Other			
<b>DRILLING (total metres; number of holes, size)</b>			
Core (re-logging); 25 holes, 3113.7 m, 115 samples		Crown grants 1824270, 18333210	
Non-core (tailings auger); 14 holes, 38.7 m, 74 samples		338685	\$28,385.77
<b>RELATED TECHNICAL</b>			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
<b>PROSPECTING (scale, area)</b> 1.7 km tunnel		338685, 250851	see Geochemical Rock
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other Reclamation		Crown 1824270, 4300; claim 338685	\$22,222.45
<b>TOTAL COST:</b>			<b>\$81,937.31</b>

**Scottie Resources Corp.**

**2018 GEOLOGICAL AND GEOCHEMICAL  
REPORT ON THE SCOTTIE GOLD PROJECT**

Skeena Mining Division, British Columbia, Canada  
NTS 104B01  
56° 13' N Latitude; 130° 05' W Longitude

-prepared for-

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28 November 2019

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## SUMMARY

The Scottie Gold property is located approximately 30-35 kilometers north of Stewart, British Columbia, in the Skeena Mining Division. The property is 100% owned by Scottie Resources Corp. ("Scottie Resources", formerly Rotation Minerals Ltd.) and comprises 14 Crown grants and three mineral claims covering a total of 681.5 hectares. Equity Exploration Consultants Ltd. ("Equity") was contracted to execute the 2018 program on the property.

The property includes all underground workings and infrastructure related to the past-producing Scottie Gold Mine, which operated from October 1981 to February 1985 and produced a total 95,426 oz Au from 201,462 short tons milled, for an average recovered grade of 0.474 oz Au/short ton (16.25 g/t Au). Mine development focussed on the "M", "N" and "O" zones, with the subvertical "M", or Main, Zone producing most of the gold. Base metal and silver values were generally low and not recovered. At shutdown, mine personnel calculated a NI 43-101 non-compliant resource of 132,306 short tons averaging 0.560 opt Au. This resource estimate does not follow the required disclosure for reserves and resources as outlined in National Instrument 43-101 as they were prepared in the 1980's, prior to the implementation of the instrument.

The mineralized veins of the Scottie Gold Mine are hosted within the Early Jurassic Unuk River andesite unit of the Hazelton Group and appear to be derived from a similarly-aged intrusion of the Texas Plutonic suite. This setting is similar to several other precious  $\pm$  base metal deposits in the area, including Snip, Premier-Dilworth, Red Mountain, Brucejack, Kerr-Sulphurets-Mitchell, Snowfield and Bronson Slope.

At least 13 zones of gold-bearing quartz-carbonate sulphide (pyrite + pyrrhotite  $\pm$  chalcopyrite  $\pm$  galena  $\pm$  sphalerite) veining occur on the property. These veins appear to be localized along sub-parallel shear or fracture zones that are possibly related to emplacement of the nearby Summit Lake stock, which comprises part of the 188-198 Ma Texas Creek plutonic suite. These veins host sulphide-rich shoots with highly anomalous gold values whereas base metal and silver values are, in general, only slightly to moderately enriched. The style of mineralization is characteristic of intrusion-related mesothermal veins.

The 2018 work program included (1) prospecting of a 2.1 km long access tunnel, (2) relogging and resampling of 25 historical drill holes (for 3113.7 m), (3) re-assay of 10 historical coarse reject material, (4) sampling of sandy-silty tailings, and (5) partial reclamation of historical camp and workings. The tunnel prospecting program collected 45 samples over ~1200 m of tunnel length, defining at least two new zones of quartz-carbonate sulphide shear veins that are likely related to Scottie Gold veins. Assays returned grab samples with up to 8.1 g/t Au and 2.1 g/t Au, as well as a sample grading 236 g/t Ag, 5.9% Pb and 9.4% Zn.

Results from the 2018 core re-logging program suggest that the more prospective "Summit Lake zones" are marked by increased pyrite, pyrrhotite, chlorite, sericite and/or narrow sulphide-bearing shear veins. Increased silica and quartz-rich shear veins appear to have a negative effect on grade. Re-analysis of historical coarse rejects helped to confirm historical assays. Multi-element correlation from the tunnel, relogging and coarse reject samples suggest that gold is generally not correlated with other elements (including Ag) whereas Ag occurs with Pb and Zn.

The silty to sandy tailings dump outside of portal C was tested with 14 holes and 74 samples taken between depths of 0-3 m, for an average of 5-6 samples per hole. Thirteen out of the 14 holes returned composites of 2-3 g/t Au over 2-3 m, with grades in the lower half (>1.5 m depth) of the hole typically higher (2.7 g/t Au) than in the upper half (1.7 g/t Au). This sampling program also defined a horizontal gradient, with the highest-grade holes located nearest to the inferred tailing outlet location.

Reclamation and preservation work included reframing and closing off of adits, reboxing of historical drill core, and general cleanup of historical infrastructure areas.

Recommended work based off this 2018 program includes additional prospecting of the newly defined CPS and DP zones in the access tunnel, reboxing of drill core found within the mine workings (plus relogging if this core can be salvaged), more re-assay of historical core to evaluate the trend of higher Au assays in 2018 data, and sampling of tailings at depths >3 m.

## 1.0 INTRODUCTION

This report has been prepared for Scottie Resources Corp (“Scottie Resources”) in order to document the procedures and results of the 2018 exploration work on the Scottie Gold property and to satisfy assessment reporting requirements for the British Columbia Ministry of Energy and Mines (“BCMÉM”). Equity Exploration Consultants Ltd. (“Equity”) was tasked to prepare this assessment report on the basis of personal observations, previous assessment reports filed with BCMÉM, data and reports supplied by Scottie Resources and regional geological publications by the BCMÉM. A complete list of references is provided in Appendix A.

## 2.0 RELIANCE ON OTHER EXPERTS

In Section 3.0, the authors have relied entirely upon information provided by Scottie Resources concerning their purchase agreement with Red Eye Resources Ltd (“Red Eye”) and the extent of any underlying interests and royalties. Also, in Section 3.0, the authors have relied entirely on the BCMÉM website for downloaded shapefile tenure data. The authors have not relied upon a report, opinion or statement of another expert concerning legal, political, environmental or tax matters relevant to this assessment report.

## 3.0 PROPERTY DESCRIPTION AND LOCATION

The Scottie Gold property is approximately 681.5 ha in size and is centred at 56° 14’ north latitude and 130° 03’ west longitude, occurring on National Topographic Sheet (NTS) 104B01. The property is located approximately 30-35 km north of Stewart, BC (Figure 1), and comprises a contiguous block of 14 Crown grants that cover 212.9 ha and three mineral claims covering 468.5 ha (Figure 2).

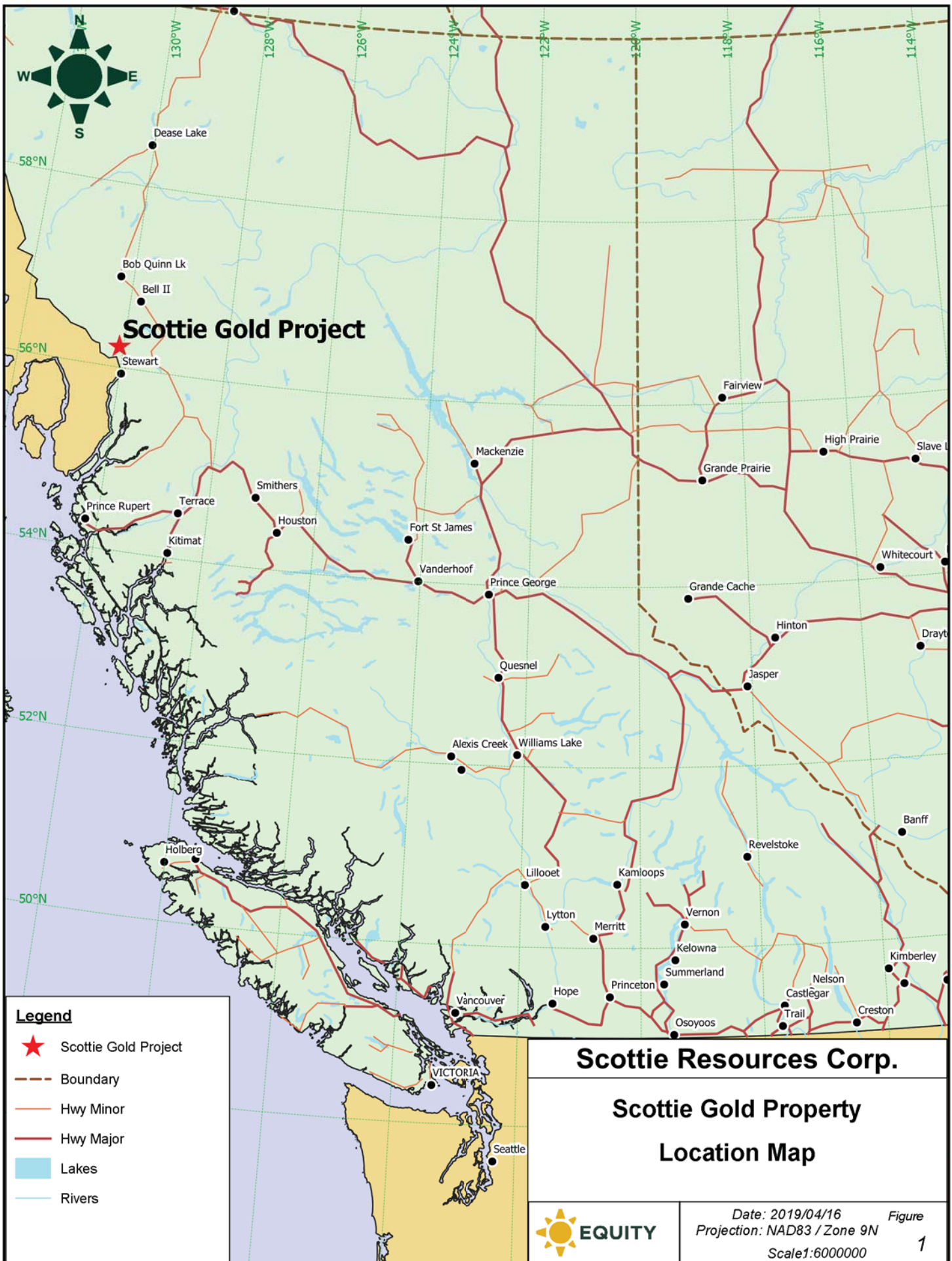
The property lies within the Skeena Mining Division and crown grants and claims boundaries were obtained from government claim maps (Figure 2). The Crown grants have been legally surveyed.

To keep the Crown grants in good standing requires paying yearly taxes to the British Columbia government. The tax bill for 2004-2005 was C\$1052.62 with the taxes being C\$4.94 per hectare (Gunning and Visagie, 2006). Mineral claims require expenditures or cash in lieu payments of C\$8.00 per year per hectare to keep the claims in good standing, in addition to a filing fee of C\$0.40 per hectare per year.

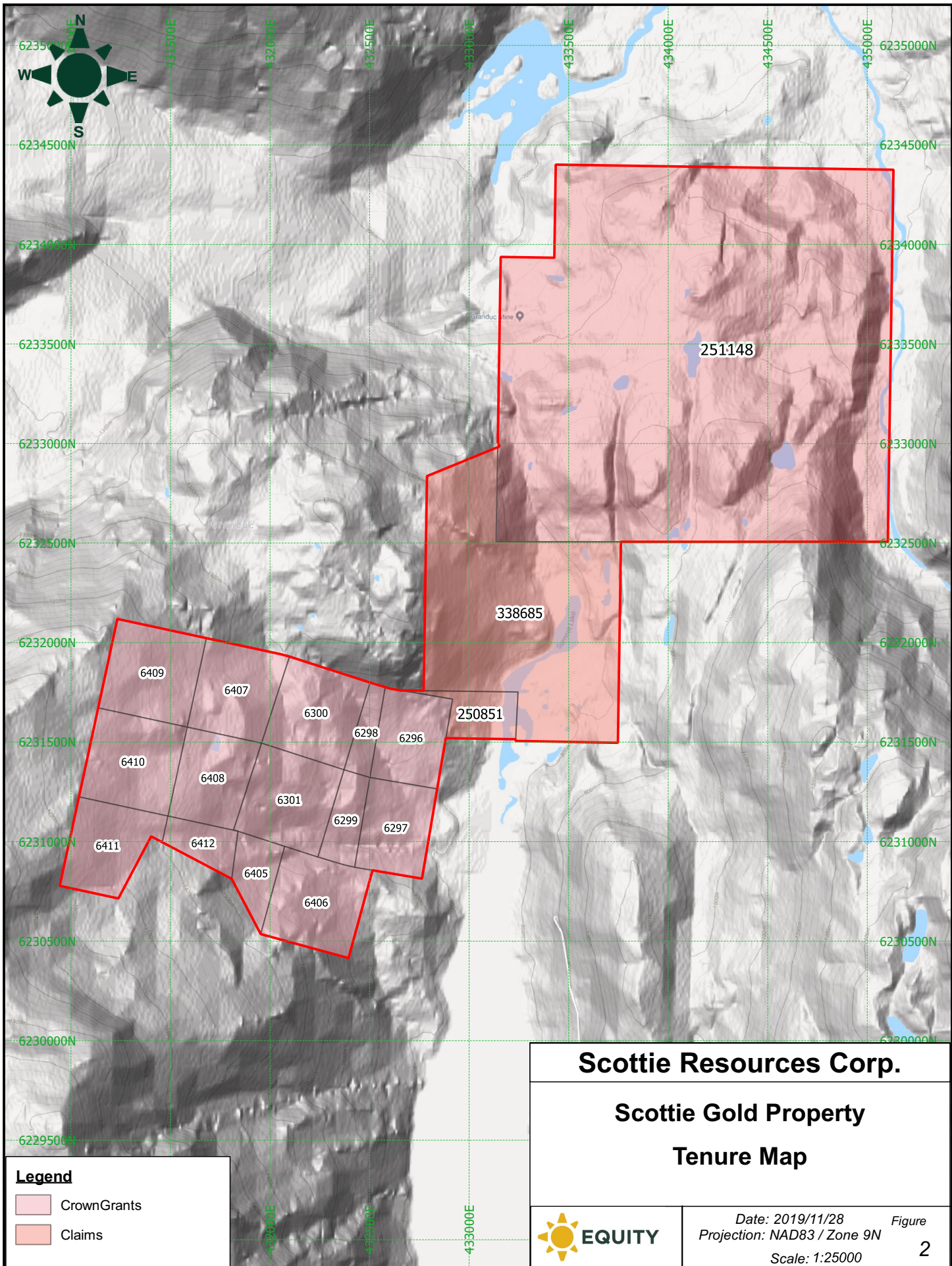
**Table 1: Scottie Gold property claims and crown grants**

Type	Record ID	Name	Owner	Issue Date	Good to Date	Area (ha)
Mineral Claim	338685	SUM #1	Scottie Resources Corp.	4-Aug-95	24-Jan-25	101.2
Mineral Claim	250851	SCOT #4	Scottie Resources Corp.	13-Feb-80	24-Jan-25	8.6
Mineral Claim	251148	Bow 1	Scottie Resources Corp.	25-Jan-84	24-Jan-25	358.8
Crown Grant	6296	SUMMIT LAKE NO. 1 MC	Scottie Resources Corp.	20-Dec-56		15.7
Crown Grant	6297	SUMMIT LAKE NO. 2 MC	Scottie Resources Corp.	20-Dec-56		15.7
Crown Grant	6298	SUMMIT LAKE NO. 3 MC	Scottie Resources Corp.	20-Dec-56		4.9
Crown Grant	6299	SUMMIT LAKE NO. 4 MC	Scottie Resources Corp.	20-Dec-56		7.5
Crown Grant	6300	SUMMIT LAKE NO. 5 MC	Scottie Resources Corp.	20-Dec-56		19.7
Crown Grant	6301	SUMMIT LAKE NO. 6 MC	Scottie Resources Corp.	20-Dec-56		20.1
Crown Grant	6405	SUMMIT LAKE NO. 5 FRACTION MC	Scottie Resources Corp.	20-Dec-56		7.8
Crown Grant	6406	SUMMIT LAKE NO. 8 MC	Scottie Resources Corp.	20-Dec-56		20.6
Crown Grant	6407	PRINCE NO. 1 MC	Scottie Resources Corp.	20-Dec-56		18.7
Crown Grant	6408	PRINCE NO. 2 MC	Scottie Resources Corp.	20-Dec-56		16.6
Crown Grant	6409	PRINCE NO. 4 MC	Scottie Resources Corp.	20-Dec-56		20.9
Crown Grant	6410	PRINCE NO. 5 MC	Scottie Resources Corp.	20-Dec-56		20.9
Crown Grant	6411	PRINCE NO. 6 MC	Scottie Resources Corp.	20-Dec-56		17.1
Crown Grant	6412	PRINCE FRACTION MC	Scottie Resources Corp.	20-Dec-56		6.9
<b>Total</b>	<b>17</b>					<b>681.5</b>









**Legend**

- Crown Grants
- Claims

**Scottie Resources Corp.**

**Scottie Gold Property  
Tenure Map**



Date: 2019/11/28  
 Projection: NAD83 / Zone 9N  
 Scale: 1:25000

Figure  
**2**

Scottie Resources, as Rotation Minerals Ltd., obtained a 100% interest in the Scottie Gold property by purchase from Red Eye. The purchase price of the Scottie Gold property was C\$370,000 for an 80% interest, negotiated in the original agreement dated September 2012. The terms of that agreement were amended several times, most recently on 31 August 2016 to include the remaining 20% interest in the Scottie Gold property for no additional cost to the company (Scottie Resources, 2017). Rotation Minerals Ltd changes its name to Scottie Resources in January 2019 (Scottie Resources, 2019a) and added the Bow 1 claim on 25 January 2019 (Scottie Resources, 2019b).

Scottie Resources' ownership of the Crown grants and mineral claims entitles it to the subsurface mineral rights only, with any exploration work requiring the appropriate permits. Exploration work is generally pre-empted with a "Notice of Work" describing the proposed work that is filed with, and approved by, the BCMEM. The 2018 work done on the Scottie Gold project comprised drill core relogging and surface sampling with no mechanical disturbance and so did not require a Notice of Work.

Reclamation completed on the property has included removal of the bunkhouses, office and shop, as well as on-going removal of garbage. Waste dumps have been recontoured and the majority of openings to the underground workings were closed. In 2004, the 3000 Level portal was reopened for drill access. Water discharge from the mine is monitored on an annual basis along with water in and around the tailing beaches on the valley floor (Gunning and Visagie, 2006). The water sample results are submitted to government authorities who to date have not required any remedial measures.

The Property is not subject to any Aboriginal Land Claims.

#### **4.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, PHYSIOGRAPHY**

The Scottie Gold property is situated along the north and west shores of Summit Lake. Local relief varies from 850 metres above sea level (ASL) to over 2,150 m ASL at the top of Morris Summit. The west shore of Summit Lake is rugged with slopes varying from 25° to 45°. The north end of the property is relatively flat occupying the pass between the Salmon River and Bowser Lake watersheds.

Vegetation at the lower elevations consists of spruce and pine trees along with juniper bushes. At higher elevations the property is mostly bare of vegetation and snow-covered for most of the year, with portions of the property being covered by glacial ice.

The Property is located 32 km north-northwest of Stewart, BC, and is road-accessible from late June to early October via the gravel Granduc Mine road. Mine access roads and trails to various levels are still present on the property.

Stewart, with a population of approximately 500 people, is the local supply centre with a hospital, grocery and supplies stores, several motels and a local airbase from which charter helicopters are available. Highways 37 and 37A connect Stewart to Terrace or Smithers, cities with population of 11,500 and 5,300 respectively. Travel time to Terrace or Smithers is approximately 3 1/2 hours by vehicle and there is daily air service from Vancouver to Terrace and Smithers.

The climate is classified as humid continental, with cool summers and wet winters. Annual precipitation is approximately 1900 mm in Stewart, with much of this accumulating as snow at higher elevations. The field season typically extends from mid-June to late October but is dependant on the previous years' snowfall.

There is sufficient crown land available for mining operation to proceed if warranted. Previously, the mine operated with power supplied by diesel generators. Power is presently available to the Premier Mine mill site 20 kilometers to the south. Tailings were located in Summit Lake and the mill was located underground.



## 5.0 HISTORY

This section is compiled from reports by Dick (1987), Visagie and Varas (1991), Kruchowski (2017), and Gunning and Visagie (2006). A summary of historical work is also provided in Table 2.

The initial discovery of gold-bearing veins was in 1928 by Ted Morris and Associates of Stewart, BC, who then staked the main surface showings under the name "Salmon Gold". The property was optioned to Premier Gold Mining Company in 1931, with surface sampling and trenching operations revealing ore-grade mineralization in two zones along strike lengths of 85 to 350 feet. The larger of these vein systems was referred to as the "O Zone". Between 1931 and 1934 the company completed 10 diamond drill holes with six indicating a downward extension of the veins. The option was nonetheless dropped and the property returned to the newly incorporated Salmon Gold Mines Ltd, who subsequently optioned it to Consolidated Mining and Smelting Company of Canada ("Cominco") in 1934.

Cominco drilled several surface drill holes in 1934 with encouraging results. This was followed up, between 1935 and 1938, with the development of a hand-steeled adit and 5000' of cross-cutting and drifting at the 3600' elevation of the property. The underground development revealed 210' of strike length of the main vein, with average widths of 2.4' and grades of 0.357 oz Au/t. During this period, 3000' of underground diamond drilling showed that one zone had potential for at least 1000' of vertical extent. Drifting to intersect the upward projection of this zone at the 3600' level was, however, never done and Cominco dropped its option in 1939. The property then sat idle until 1946.

Between 1946-1948, Morris Summit Gold Mines Ltd completed 17,000' of diamond drilling, an additional 4000' of lateral work and also raised development from a new portal developed at the 3000' level. These efforts helped identify four ore shoots including the McLeod East Zone (now part of the M Zone), which was intersected with a spur cross-cut directed toward an old Cominco drill hole. Unfortunately, the company was unable to develop the other three ore shoots due to a lack of funding and once again the property sat idle until 1952.

In 1952 a joint venture between Newmont Mining Company and Granby Mining & Smelting Company gained control of Morris Summit Gold Mines. In 1955 they re-sampled the historical workings and diamond drill holes to substantiate the historical findings then followed this up with surface prospecting and geophysics in 1956, which outlined several more gold-bearing veins. However, no follow-up work was conducted on any of these veins and the property remained idle until 1978 when the controlling interests of Morris Summit Gold Mines was acquired by D. A. McLeod and Associates of Vancouver ("McLeod Group").

The McLeod Group added the Scottie prospect to the original Morris Summit Claim block and formed Scottie Gold Mines Ltd to develop the property into commercial production. Even though this prospect had been discovered in 1944, by E. G. Langelle and H. Melville, only 1300' of trenching and 2730' of diamond drilling had been done (in the C and D zones). With the addition of the Scottie prospect, the McLeod Group developed an access road through to the 3000' level adit in 1978 and completed 3058' of diamond drilling on the M Zone between 1978 and 1979. Additional development was also conducted on the N Zone and on the McLeod West Veins. A feasibility study, completed in 1980 and based on a gold price of \$660/ounce, recommended placing the property into production at 200 tons per day. Reserves in all categories was calculated to be 226,287 short tons averaging 0.743 oz Au/short ton, undiluted (these reserves would not be compliant with current NI-43-101 standards).

The Scottie Gold Mine was put into production on 1 October 1981 and continued for about 4.5 years until February 18, 1985, when high interest rates and a low price of gold (\$300/oz) forced the mine in to closure. Total production amounted to 95,426 oz Au from 201,462 short tons milled, for an average recovered grade of 0.474 oz Au/short ton or 16.25 g/t Au. Underground mining was completed by shrinkage in stopes varying from 3.5' to 30' in width, with track haulage to an underground mill. Mining supplied the mill at a rate varying from 135 to 185 tons per day throughout its production. Recovered grades averaged 0.51 oz Au/short ton for the first two years but dropped to 0.41 oz Au/short ton in 1984, even though mill recoveries were improved from about 75% in 1981 to 92-95% in 1984. Lowered grades were due partly to narrower vein widths, with attendant higher dilution, but also to the mining of lower grade material in order to maintain tonnage. Most of the production between 1981 and 1985 was from the M Zone, with lesser amounts produced from the N and O zones. At the time of



**Table 2: Summary of historical work conducted on the Scottie Gold property**

Year (s)	Company	Work Completed
1928-1931	Ted Morris and Associates	Trenching and sampling, unknown quantities
1931-1934	Premier Gold Mining Co.	Surface drilling (10 holes)
1934-1939	Cominco	Several surface drill holes; 1650' underground development; 3000' of underground drilling.
1944	E.G. Langelle, H. Melville	Discovery of Scottie Prospect
1945-1946	Letal Exploration	2730' drilling; 1300' trenching (Scottie prospect)
1945-1948	Morris Summit Gold Mines	4000' underground development; 17,000' drilling
1952-1956	Newmont Mining Co./ Granby Mining and Smelting JV	Surface prospecting and geophysics, details unknown
1978	Scottie Gold Mines	1800' underground development
1978-1979		Underground development, 3058' drilling (17 holes)
1981-1985		95,426 oz Au produced from 201,462 short tons; 45,188.8' underground drilling (201 holes); 3994' surface drilling (15 holes); 150 miles airborne mag and VLF-EM; 16 miles ground geophysics; property wide mapping and sampling.
1987	Royal Scot Resources Ltd.	5206' underground drilling (18 holes)
1989		Data review
1990		1791.8' underground drilling (4 holes); 13,940' ground VLF-EM and Mag; mapping and rock-chip sampling (details unknown)
1994	Tenajon Resources Corp	Soil, silt, and water sampling
1995		Site reclamation
1997	Arkaroola Resources Ltd.	Rock chip and soil sampling
1998	Tenajon Resources Corp.	Site reclamation
2003-2004		Sampling and prospecting
2004		Underground drilling (14 holes)
2005		2,028 m underground drilling (19 holes)
2006		3,650 m underground drilling (31 holes)
2010-2014	Red Eye Resources Ltd.	Data compilation, site investigation, environmental studies, government discussions, evaluation of on-site equipment, pre-feasibility studies.
2016	Rotation Minerals Ltd.	162 rock samples; 713.42 m surface drilling (3 holes); 1935.36 m underground drilling (18 holes)

shutdown, reserves in all categories were estimated at 132,306 short tons grading 0.56 oz Au/short ton (not NI-43-101 compliant).

As part of the mining process, a total of 45,188.8' was drilled in 201 underground drill holes from 1981 to 1985. Most of the drilling was focused on the evaluation (and subsequent mining) of the M, N and O zones. Limited drilling of the M Zone beyond the mined-out extent resulted in several significant intercepts, such as 11.3' at 0.642 oz Au/ton, 0.8' at 5.518 oz Au/ton, and 5.5' at 0.572 oz Au/ton (all true widths). In addition to this, three holes were drilled to test a 100' strike length of the L Zone with all three returning narrow intersections with anomalous gold, including 3.0' at 2.036 oz Au/t and 1.0' at 1.576 oz Au/ton (true widths).

Surface exploration programs were also conducted while the mine was in production, especially during the summers of 1983 and 1984. This work included approximately 150 miles of airborne geophysical surveys (VLF-EM, magnetics) followed up with 16 miles of ground-based geophysics. Property-wide mapping and sampling was completed at 1":200' while underground mapping of the immediate mine surface was also completed at 1":40'. Surface diamond drilling during this period totalled 3,994' in 15 drill holes, with targets including the C, D, O, and S zones. Results from the C Zone included intersects of 2.7' at 2.263 oz Au/ton and 6.5' at 0.454 oz Au/ton. At the S Zone, now interpreted to be the surface expression of the M Zone, results included a 10' true width intercept averaging 0.492 oz Au/ton, while the O Zone results included a 5' intercept averaging 1.239 oz Au/ton.

Despite these efforts the mine was placed in to receivership by the Royal Bank of Canada in February 1985, with a re-organization of Scottie Gold Mines resulting in the formation of a new company – Royal Scot Resources Ltd ("Royal Scot"). Exploration on the property resumed in 1987, with Royal Scot completing 18

underground drill holes for 5,214'. These holes were drilled to test the M, N, and L zones along strike and down dip and showed that the M Zone continued below the existing workings and to the west of the mined-out area. Drilling on one section returned over 230' of highly anomalous gold values. Results included intercepts of 6.3' at 2.313 oz Au/ton and 4.5' at 1.345 oz Au/ton (true widths). The underground holes were drilled from the 3000' level and showed that mineralization continued down to the 2800' level. Two holes drilled approximately 90' apart and 80' below the N Zone intersected 0.281 oz Au/ton and 0.249 oz Au/ton over true widths of 5.38' and 5.29' respectively.

Exploration work in 1989 comprised a review of the historical data coupled with a two-day prospecting and mapping program. Several new showings were identified with select grab samples assaying up to 1.219 oz Au/ton and 2.45 oz Ag/ton.

In 1990, Royal Scot completed a more comprehensive evaluation of the property that included both surface and underground drilling, mapping, sampling, prospecting and geophysical surveying of selected areas. A total of 13,940 feet of geophysical surveys (VLF-EM, Magnetometer) were completed on grids located on the C and D Zones while rock chip sampling and mapping was completed in various zones throughout the property. Four underground drill holes totaling 1,791.80' were drilled to test the down-dip and along strike extension of the M Zone with two of these holes returning encouraging values, such as 5.6' averaging 0.564 oz Au/ton (true width). Two surface holes were also drilled to test the C and E Zones. At the C Zone, a 7.5' intersection averaged 0.164 oz Au/ton while at the E Zone a 1' intersection returned 0.042 oz Au/ton.

Royal Scot Resources merged with Tenajon Resources Corp in 1991 and adopted the name of Tenajon Resources Corp ("Tenajon"). The new company conducted limited soil, silt, and water sampling on the west side of Summit Lake in 1994 and partial site reclamation in 1995. In 1996 Arkaroola Resources Ltd ("Arkaroola") entered in to an agreement to purchase the property from Tenajon, conducting a limited soil and rock chip sampling program in 1997 approximately 200 m to the west of the area sampled in 1994. However, the property was returned to Tenajon in 1998 as Arkaroola was unable to maintain the schedule of payments. Tenajon conducted additional site reclamation in 1998 but the property remained idle once again until 2004.

A data review in 2003 identified several drill targets near the existing mine workings and elsewhere on the property, leading to a 14 hole underground drill program and a modest prospecting program conducted in 2004. The drill program tested the M, N and L zones. An additional 19 drill holes for 2028 m were done in 2005 was successful in expanding these same three zones along strike and down-dip. The M Zone returned several high-grade intercepts and remains open to the west and along strike. An NI-43-101 report was prepared on the property following these results (but prior to the completion of the 2006 drilling).

Drilling continued in 2006 with a 31 hole drill program designed to test several zones, with 3,650 m of underground drilling resulting in the discovery of the "R Zone" 137 m south of the M Zone.

In 2008 the property was purchased from Tenajon by Jayden Resources, who subsequently sold it to Red Eye Resources Ltd in 2009. From 2010 to 2014 Red Eye Resources embarked on a series of limited work programs, including data compilation, site investigation, underground sampling, environmental studies, government discussions, an evaluation of the condition of on-site milling and crushing equipment, and pre-feasibility studies. In 2014 Red Eye Resources sold an 80% stake in the property to Rotation Minerals Ltd.

In 2016, Rotation Minerals embarked on a rock sampling and drilling program on the property. A total of 162 rock samples were collected from four main areas; 3600' portal, the C and D zones, Six Ounces Zone, Dave Zone. The 3600' portal area was considered the most prospective as it features several high-grade gold-silver veins, including one that is 0.4-2.0 m wide and has at least 100 m of strike length. A grab sample from this vein returned 151 ppm Au, 106 ppm Ag, 0.1% Cu and 0.8% Zn. The 2016 diamond drilling program comprised 2648.78 m in 21 drill holes from 5 pads, 1935.36 m of which was drilled underground on the C and D zones, located 2 km NE of the mine workings. The remaining 713.42 m was drilled from surface to test areas of silicification coupled with closely spaced pyrite veins carrying minor pyrrhotite. The best drill results were returned from the C and D zones, including 1.13 m of 31.54 g/t Au and 4.81 m of 5.18 g/t Au. Low gold values were obtained from the surface drilling. In December 2017, Rotation Minerals completed the purchase of a 100% interest in the Scottie Gold property and thus became the sole proprietor of the historical mine. In January 2019, Rotation Minerals changes its name to Scottie Resources Corp (Scottie Resources, 2019a).

## 6.0 REGIONAL GEOLOGY AND MINERALIZATION

The following section is taken and modified from Lewis (2013), Nelson et al (2018) and Cutts et al (2015).

### 6.1 Regional Geology

The Scottie Gold property lies along the eastern edge of the Coast Crystalline Complex within the western boundary of the Bowser Basin. Rocks in the area belong to the Mesozoic Stuhini, Hazelton and Bowser Lake groups and have been intruded by Jurassic to Eocene granitoids of the Texas Creek and Coast plutonic complexes (Figure 3). Each of these stratigraphic components is described in slightly more detail below.

The Middle to Upper Triassic (201-247 Ma) Stuhini Group consist of dark grey, laminated to thickly bedded, silty mudstone and fine- to medium-grained to locally coarse-grained sandstone. Less abundant lithologies include heterolithic pebble to cobble conglomerate, massive tuffaceous mudstone and thick-bedded sedimentary breccia and conglomerate.

The upper-most Triassic to Lower Jurassic (183-209 Ma) Hazelton Group has been recently split into a lower and upper part (Nelson et al., 2018). The Rhaetian to Pleinsbachian (183-209 Ma) lower Hazelton Group is subdivided, from oldest to youngest, into the Klastline, Jack and Betty Creek formations. The Klastline Formation is the oldest of these units and consists of andesite, sedimentary rocks and limestone. The lower-most part of the Jack Formation, referred to by Nelson et al (2018) as the Snippaker unit, is of similar age to the Klastline Formation and consists of polyolithic conglomerate, arkose, siltstone, mudstone and fossiliferous limestone. The bulk of the Jack Formation consists of siliciclastic rocks and andesitic to felsic volcanoclastic. The Betty Creek Formation is sub-divided into the Unuk River, Brucejack Lake and Johnny Mountain units. The Unuk River andesite unit forms the bulk of the country rock on the Scottie Gold property and consists mostly of andesitic volcanoclastic and flows. The underlying Brucejack Lake and Johnny Mountain units both consist of dacitic volcanoclastic.

The Lower to Middle Jurassic (163-191 Ma) upper Hazelton Group is subdivided by Nelson et al (2018) into the Eddontenajon, Spatsizi, Iskut River and Quock formations. The Eddontenajon forms the lower-most part of the upper Hazelton Group and comprises an “unusual” bimodal succession (Nelson et al., 2018) of felsic and basaltic volcanic rocks. The overlying Spatsizi Formation consists of siliciclastic and limestone, and is overlain by siliciclastic, conglomerate, rhyolitic to dacitic volcanoclastic and basaltic rocks of the Iskut River Formation. The top of the upper Hazelton Group is formed by sedimentary Quock Formation.

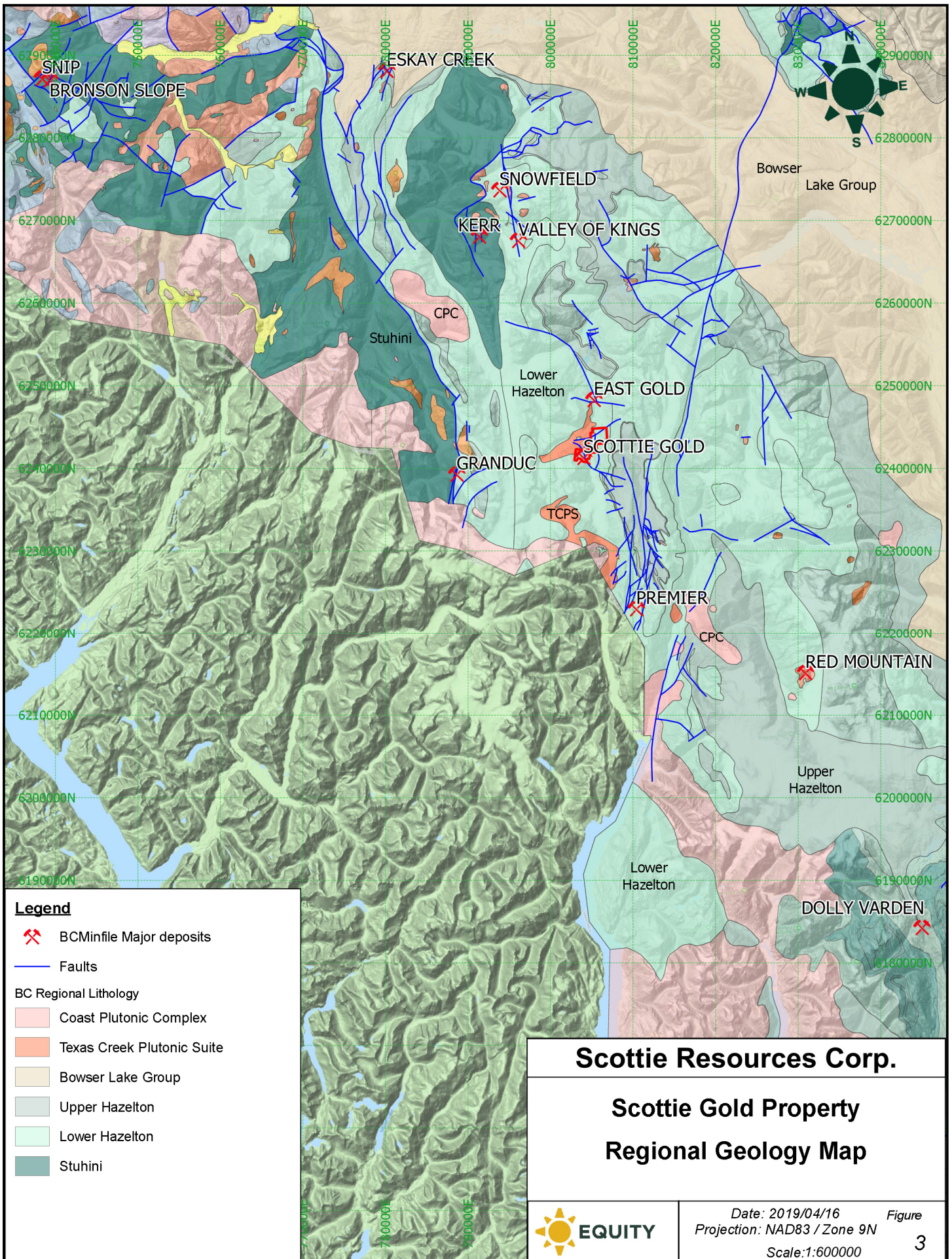
The Bowser Lake Group consists of Middle to Upper Jurassic (152-174 Ma) marine to non-marine sedimentary rocks, with the most widely occurring lithologies including sandstone and siltstone with lesser abundances of conglomerate.

Intrusive rocks in the region include the Tatogga, Texas Creek and Brucejack Lake suites, as well as the Coast Plutonic Complex. The Late Triassic (198-207 Ma) Tatogga rocks are the oldest of the three suites that are coeval and cogenetic with the volcanic rocks of the lower Hazelton Group, with the Tatogga Suite comprising plagioclase- and/or hornblende phyric diorite, monzodiorite and monzonite.

The Texas Creek Plutonic Suite comprises a group of Early Jurassic (188-198 Ma) diorite, monzonite and syenite porphyry intrusions interpreted as the subvolcanic equivalents to the Betty Creek Formation. Sub-suites include Premier, Sulphurets, Mitchell and Lehto, indicating a strong spatial association with mineralization in the area. Many of these porphyries are characterized by megacrystic K-feldspar in a fine-grained to aphanitic matrix along with pervasive sericite + carbonate ± chlorite ± pyrite alteration (Alldrick, 1993). The Summit Lake stock, which occurs on the northwest corner of the Scottie Gold Crown grants, is also grouped into the Texas Creek suite.

The Brucejack Lake Suite has radiometric ages that (183-197 Ma) overlap with the Texas Creek plutonic suite but is interpreted as the subvolcanic equivalent of the Brucejack Lake felsic unit, which is more dacitic than andesitic in composition. Intrusive rocks consist mostly of K-feldspar-plagioclase-hornblende porphyry.





Geology modified from Cui, Y., Miller, D., Schiarizza, P., and Diakow, L.J., 2017. British Columbia digital geology. British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Open File 2017-8, 9p



**Table 3: Regional stratigraphy of the Scottie Gold area**

Group	Sub-Group	Age	Age (Ma)	Formations	Unit
Bowser Lake		Upper Jurassic to Lower Cretaceous	100-163 Ma		
Hazelton	upper	Bajocian and younger	163-170 Ma	Quock	
		Aalenian to Bajocian	168-174 Ma	Iskut River	Eskay rhyolite
					Bruce Glacier felsic
					Willow Ridge mafic
					Mg Madge sedimentary
					Kinaskan conglomerate
	Downpour Creek siliciclastic				
	Pleinsbachian to Aalenian	170-191 Ma	Spatsizi		
	Pleinsbachian to Toarcian	174-191 Ma	Eddontenajon		
	lower	Sinemurian to Pleinsbachian	183-199 Ma	Betty Creek	Unuk River andesite unit
Brucejack Lake felsic unit					
Johnny Mountain dacite					
Rhaetian to Sinemurian		191-209 Ma	Jack		
Rhaetian	201-209 Ma		Snippaker		
			Klastine		
Stuhini		Middle to Upper Triassic	201-247 Ma		

The Lower Cretaceous to Eocene Coast Plutonic Complex stretches from southwestern Yukon to northern Washington state. Representative intrusions in the Stewart area include the Early to Middle Eocene Hyder plutonic suite, which consists of several plutons, satellite stocks and dykes that lie east of the main Coast Plutonic Complex. The Hyder intrusives are compositionally and texturally reminiscent of the Coast Plutonic intrusives, with the dykes forming prominent, but randomly distributed, swarms of regional extent. Four dyke phases were recognized by Alldrick (1993): granodiorite porphyry, aplite, microdiorite, and lamprophyre dykes.

The Hazelton Group has been folded into north-northwest trending, doubly plunging syncline/anticline pairs with subvertical axial planes. Clastic rocks of the Iskut River Formation (Salmon River Formation in Alldrick, 1993) occupy synclinal cores and display disharmonic tight to isoclinal folds (Alldrick, 1993).

Faults are abundant at both local and regional scales in the Stewart area. Alldrick (1993) described five major groups: (1) regional-scale north-striking, subvertical, ductile to brittle faults, (2) northerly-striking moderately west-dipping normal and reverse faults, (3) southeast to northeast striking brittle, subvertical "cross" faults with strong but narrow foliation envelopes and up to a kilometre of lateral offset, (4) decollement surfaces or bedding plane slips near the base of the Salmon River Formation of Alldrick (1993; Iskut River Formation or Johnny Mountain dacite of Nelson et al., 2018), and (5) mylonite bands at various orientations and up to a few metres wide at most.

## 6.2 Regional Mineralization

The Hazelton Group hosts numerous precious and base metal deposits in a variety of geological settings, including the currently producing Brucejack Mine and past-producing Anyox, Eskay, Snip, Scottie Gold, Granduc and Premier-Big Missouri mines. In addition, ore reserves are reported from a number of other properties like Red Mountain and Kerr-Sulphurets-Mitchell. Hazelton Group-hosted porphyry and vein deposits have been split into two groups based on their metal suite and age. The first group includes Au-Ag ± Cu vein and porphyry deposits associated with the 193-198 Ma porphyritic intrusive of the Texas Creek plutonic suite. The second includes Ag-rich galena-sphalerite vein systems related to biotite granodiorite intrusions of Middle Eocene age. A third group includes several generations of VMS deposits occurring within Jurassic volcanic rocks. Summaries for some of these deposits are provided below with their locations shown on Figure 3.

### 6.2.1 Porphyry

The **Kerr-Sulphurets-Mitchell** (KSM) project consists of several Au-Cu porphyry deposits associated with Early Jurassic granitoid dykes and stocks. The strongest copper mineralization is associated with a core of chlorite-magnetite and chlorite-pyrite alteration with quartz stockwork, flanked by chlorite-sericite-pyrite and sericite-quartz-pyrite zones. Current NI 43-101 compliant proven and probable reserves are 2198 Mt at 0.21% Cu, 0.55 g/t Au, 2.6 g/t Ag and 42.6 ppm Mo (Seabridge Gold, 2018).

The **Snowfield** deposit is located immediately east of the Mitchell deposit, and comprises a near-surface, bulk tonnage, porphyry-style gold deposit with additional Cu, Mo and Re mineralization. Mineralization is hosted entirely within andesitic rocks of the Unuk River Formation with only minor intrusives intersected within the resource envelope, although larger intrusions are hypothesized to lie at depth (Armstrong et al., 2011). The deposit comprises 1370 Mt of measured and indicated resources<sup>1</sup> at a cut-off grade of 0.30 g/t AuEq, with average grades of 0.59 g/t Au, 1.72 g/t Ag, 0.10% Cu, 85.5 ppm Mo and 0.51 ppm Re (Pretium Resources, 2011).

The **Bronson Slope** deposit is hosted by quartz stockwork in sericite + quartz + K-feldspar + biotite-altered megacrystic porphyry (Rhys, 1995). The host intrusive is dated at 195 Ma. Measured and indicated resources<sup>1</sup> are reported at 187 Mt grading 0.12% Cu, 0.36 g/t Au and 2.19 g/t Ag (Seabridge Gold, 2016).

### 6.2.2 Vein-hosted

Vein-hosted deposit types in the area include the **Brucejack** deposit, which achieved commercial production in July 2017 and produced 339,500 ounces of gold in its first year of operation. The deposit comprises low-sulphidation epithermal veins hosted within andesitic volcanoclastic and clastic of the Hazelton Group. Volcanic rocks are cut by 193 Ma hornblende-plagioclase porphyry and potassium feldspar megacrystic plagioclase stocks (Jones, 2013). The Valley of the Kings deposit has NI 43-101 compliant measured and indicated resources of 16.4 Mt grading 17.2 g/t Au and 15.0 g/t Ag at gold-silver (=Au + Ag/53) cut-off grade of 5.0 g/t (Pretium Resources, 2016).

The **Snip** gold deposit is a shear vein system within Triassic clastic rocks of the Stuhini Group, located 300 m above and genetically related to the 195 Ma Red Bluff megacrystic feldspar porphyry (Rhys, 1995). Mineralized veins at Snip are among the closest analogues to the mineralized veins on the Scottie Gold property (Alldrick and Höy, 1997). Historical production<sup>1</sup> comprised approximately 1 Moz Au at an average grade of 27.5 g/t (Skeena Resources, 2015a).

The **Premier-Dilworth** deposit comprises high- and low-sulphide breccias and veins, locally with low-sulphidation epithermal textures, hosted in the Unuk River andesite (Rennie and Simpson, 2018). Ore zones are spatially associated with 195 Ma feldspar-hornblende dykes (Alldrick, 1993). The most recent NI 43-101 compliant resource estimate reports indicated resources of 93.5 Mt at 0.82 g/t Au and 6.9 g/t Ag at a cut-off grade of 0.3 g/t AuEq (Rennie and Simpson, 2018).

The **Red Mountain** deposit consists of three semi-tabular zones of pyrite-pyrrhotite stockwork in intensely sericitized sedimentary rocks. These zones range from 5-29 m in width and lie <100 m from the 197 Ma Goldslide porphyry, which is thought to be the mineralizing intrusion (Rhys et al., 1995). NI 43-101 compliant measured and indicated resources comprise 2.8 Mt grading 7.9 g/t Au and 22.8 g/t Ag at a cut-off grade of 3 g/t Au (Arseneau and Hamilton, 2018).

The past-producing **East Gold** mine is classified as a low-sulphidation epithermal deposit with breccia-veins, and was intermittently mined between 1931 to 1965 (BCMCM, 2017). The deposit is formed by quartz-calcite-sulphide-sulphosalt veins, ranging from 3-60 cm in width and trending 165°/70°W, with rich pockets of electrum. A total of 46 tons of ore was mined<sup>1</sup> from 1939-1945, 1949-1954 and 1965 with average grades of 1132 g/t Au, 3125 g/t Ag, 5.1% Pb and 2.3% Zn (BCMCM, 2017).

<sup>1</sup> Resource estimate may not follow the required disclosure for reserves and resources as outlined in National Instrument 43-101

### 6.2.3 Volcanogenic Massive Sulphides

The best-known VMS deposit in the area is **Eskey Creek**, which comprises lenses of clastic, sulphosalt-bearing, massive sulphide hosted in mudstone and occurring on the flank of a ca. 180 Ma submarine rhyolitic flow-dome. The exceptional precious metal enrichment of this deposit is considered to be the product of a low-sulphidation epithermal system venting to the sea-floor in a shallow marine setting (Roth et al., 1997). Historical production<sup>2</sup> includes 3.3 million ounces of gold and 160 million ounces of silver, from 2.2 Mt of ore grading an average of 45 g/t Au and 2224 g/t Ag (Skeena Resources, 2015b). Remaining NI 43-101 compliant indicated resources total 3.6 Mt, comprising a 1.1 Mt pit-constrained resource at 4.9 g/t Au and 72 g/t Ag plus an additional 2.5 Mt of underground at 7.2 g/t Au and 215 g/t Ag (Skeena Resources, 2018)

The **Granduc** deposit is interpreted as a Beshi-type VMS that straddles the South Unuk shear zone, which marks the contact between the Stuhini and Hazelton groups. The deposit consists of several high-grade massive and semi-massive sulphide lenses overprinted by varying intensities of deformation, with the lenses broadly subdivided into the Main and North zones. Historical production<sup>2</sup> occurred from 1970-1977 and was focussed entirely on the Main Zone, producing ~180,000 tons of Cu from 15 Mt of ore at average head grade of 1.29% Cu, 0.13 g/t Au and 8 g/t Ag (Morrison et al., 2013). Remaining NI 43-101 compliant measured and indicated resources are estimated at 11.3 Mt grading 1.47% Cu, 0.17 g/t Au and 12.4 g/t Ag along with a much larger inferred resource of 44.6 Mt averaging 1.43% Cu, 0.19 g/t Au and 10.7 g/t Ag (Morrison et al., 2013).

**Anyox** or Hidden Creek is a Cyprus-type massive sulphide deposit hosted within chlorite-altered massive and pillow basalts of the Hazelton Group. Mining from 1914-1936 produced<sup>2</sup> 21.7 Mt of ore with an average grade of 1.4% Cu, 0.17 g/t Au and 9.5 g/t Ag (BCMEM, 2012). Remaining resources<sup>2</sup> are estimated at 24.2 Mt averaging 1.04% Cu, 0.17 g/t Au and 10.3 g/t Ag (BCMEM, 2012).

The **Dolly Varden** deposit occurs on an exhalative horizon ranging from 3-38 m in width and hosted within the lower to middle part of the Hazelton Group. The deposit is interpreted as a high sulphidation VMS system (Higgs and Giroux, 2015). NI 43-101 compliant indicated resources are estimated at 3.1 Mt grading 322 g/t Ag (Higgs and Giroux, 2015).

## 7.0 PROPERTY GEOLOGY AND MINERALIZATION

The following sections were modified from Visagie (2004) and Gunning and Visagie (2006).

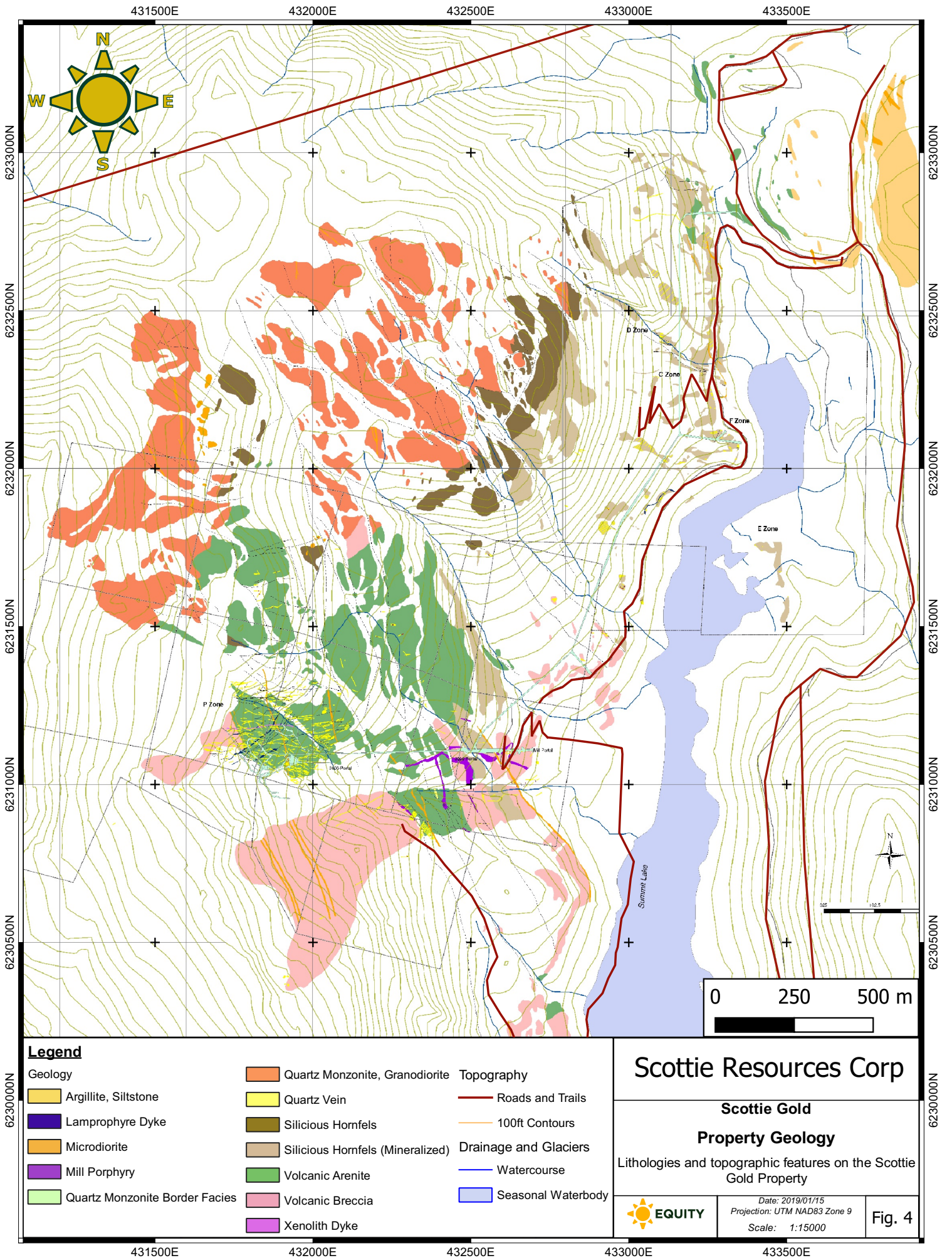
### 7.1 Lithology

The Scottie Gold property is mostly underlain by the so-called “middle andesite member” of the Unuk River andesite unit, which is part of the Betty Creek Formation within the lower Hazelton Group (see Nelson et al., 2018). These andesitic rocks are intruded by the Summit Lake Stock, which is exposed on the westernmost part of the property (Figure 4). Lithological codes used to describe rocks on the property are shown in Table 4.

The Unuk River unit on the Scottie Gold property is subdivided into “middle andesite”, “lower siltstone” and “upper siltstone” members. The middle andesite consists of matrix-supported andesitic tuff breccia and lapilli tuff with intercalated ash tuff, volcanic sandstone and volcanic conglomerate. The tuffs are massive and vary from coarse ash tuffs to fine-grained crystal-rich tuffs with plagioclase or plagioclase-pyroxene-hornblende phenocrysts assemblages. Historical logging differentiated between andesitic agglomerate/breccia (AnAg, AnBx), tuffaceous andesite (AnLt, AnLf) and undifferentiated andesite, which collectively comprise 89.2% of all metres drilled on the property. The lower siltstone is exposed just northeast of the Scottie Gold property and ~2.5 km northeast of the mine, comprising thin-bedded siltstone with a subvertical and north-south striking orientation, and younging direction to the east. Upper siltstone is exposed just west of the property and 2 km west of the mine and shows a steeply northeast-dipping and southeast-striking orientation with tops to the northeast. The sedimentary rocks logged on the property (Arg, Wke) comprise thin intercalation comprising part of the middle andesite member, as opposed to the upper or lower siltstone.

<sup>2</sup> Resource estimate may not follow the required disclosure for reserves and resources as outlined in National Instrument 43-101





**Legend**

**Geology**

- Argillite, Siltstone
- Lamprophyre Dyke
- Microdiorite
- Mill Porphyry
- Quartz Monzonite Border Facies

- Quartz Monzonite, Granodiorite
- Quartz Vein
- Silicious Hornfels
- Silicious Hornfels (Mineralized)
- Volcanic Arenite
- Volcanic Breccia
- Xenolith Dyke

**Topography**

- Roads and Trails
- 100ft Contours
- Drainage and Glaciers**
- Watercourse
- Seasonal Waterbody

**Scottie Resources Corp**

**Scottie Gold**

**Property Geology**

Lithologies and topographic features on the Scottie Gold Property



Date: 2019/01/15  
 Projection: UTM NAD83 Zone 9  
 Scale: 1:15000

**Fig. 4**



The Texas Creek plutonic suite on the Scottie Gold property consists of the Summit Lake stock and the "Mill porphyry" dykes, and likely the Summit Lake vein system as well. The Summit Lake stock is a coarse-grained, equigranular to subtly potassium feldspar porphyritic, hornblende granodiorite. It is exposed in the northwestern part of the Crown grants and just west of the mineral claims, approximately 500-600 m northwest of the mine workings. The pluton has not been intersected in drill holes or underground workings so the closest approach to the ore zones is unknown but is probably <500 m. Andesite occurring near the contact with this stock is carbonate ± sericite altered and impregnated with fine to very coarse-grained accessory hornblende (up to 3 cm long) and minor fine pyrite. Radiometric age dating has returned ages of  $185.8 \pm 2$ ,  $186 \pm 12$  and  $192.8 \pm 2$  Ma, indicating it comprises part of the Middle Jurassic Texas Creek plutonic suite.

The Summit Lake system is formed by composite, east-west to northwest-trending, shear veins with principal veins fills comprising two end-members, sulphide-quartz and calcite. These fills combine to form three types of shear veins; sulphide ± quartz, calcite-dominant and composite sulphide-calcite (Rhys, 2006). Sulphide-rich veins typically contain more pyrrhotite than pyrite. Veins are typically surrounded by envelopes of calcite-sericite-chlorite-pyrrhotite-pyrite alteration and are overprinted by significant shear strain, with foliation terminating at vein walls are gradually diminishing into the country rock (Rhys, 2006).

Green microdiorite dikes are post-mineralization, northwest trending and steeply southwest dipping. They are up to ~10 m thick and are similar in composition and orientation to dykes that cut Late Cretaceous to Early Tertiary intrusions in the area, so they are inferred to be of Tertiary age (Rhys, 2006). Dark brown lamprophyre and diabase dikes are northeast-trending and subvertical, and are similar to dikes in the region that have been dated as Oligocene in age (Rhys, 2006). These dikes comprise spessartite with fresh, fine hornblende phenocrysts and calcite-filled amygdules.

**Table 4: Overview of lithological names and codes used on the Scottie Gold property**

Group/Suite	Unit	Description	Lithological Codes			
			Historical	% hist DB	2018	% 18 DB
n/a		Casing, overburden	CSG	0.8%	CSG	0.0%
n/a		Missing core	-	0.0%	MISS	6.8%
n/a		Fault, fault breccia	FBX, FLT, Flt Bx	0.3%	FLT	0.7%
Oligocene dykes?		Lamprophyre dyke	LaDy, Lamp, Imp	2.9%	LMP	7.2%
		Diabase dykes	dia	0.3%	DIA	0.4%
Tertiary dykes?		Diorite, micro-diorite dykes	Didy, dio	0.6%		
Texas Creek plutonic suite (188-198 Ma)	Summit Lake vein system	QTZ veins and vein stockworks	qtz, QV, qvn, QVnZ, QVZ, QVZn, QStkwk	0.3%	SLZN, VEIN	22.0%
		CB-QTZ veins and vein zones	cal, CQV, CQVn, qcn, qcv, QCVn, qcvv, QCVnZ, QCVZ, QCVZn, QCVnZ, vn	1.2%		
		Sulphide veins, main zone	SV, SVn, SVZ, SZ, SZn, MS, MZ	2.1%		
		CB-QTZ shear vein, vein zones	CQSV, QCSV, QCSVn, QCSVnS, QCSZ, QCSVnZ, QSVn, QSVZ, CSVZ	1.6%		
		CB-QTZ breccia	QCBx, QCBxV, QCBxZ, QBx, QVBx	0.1%		
	Summit Lake stock	Granodiorite	n/a	0.0%	DIO	0.4%
"Mill porphyry"	Granitoid "Mill" dykes?	MiDy	0.1%			
Betty Creek Formation (183-199 Ma)	Unuk River andesite unit	Argillite, siltstone, wacke	Arg, arg, Arge, slt, SSt, Wke, gWke, wke. MST	0.4%	SLT	0.0%
		Andesite: undifferentiated	an, and	14.7%	AND	62.5%
		Andesite: agglomerate, breccia	AnAg, AnBx, bx, vgl	40.2%		
		Andesite: tuff, lapilli tuff	AnLt, Antf, AnTf, lpt, vcc	34.3%		
		Hornblendite	hbl	0.0%	HBL	0.0%

## 7.2 Alteration

Andesitic rocks on the property show pervasive chlorite, minor epidote and trace disseminated pyrite alteration, with the most intense alteration occurring <10 m from the ore zones. Pyrrhotite, pyrite and chalcopyrite are present as fine disseminations and hairline fracture coatings adjacent to the main mineral deposits and appear to be associated with the most intense chlorite alteration. Within the underground workings, wallrock alteration immediately adjacent to the quartz-carbonate vein margins consists of abundant chlorite alternating with pinkish-coloured bands of sericite + calcite plus grains of crushed quartz. The pinkish hue is most likely due to Mn-bearing carbonate (rhodochrosite).

Wallrock alteration ranges from massive, non-foliated, alternating patches of chlorite, sericite-carbonate, and pink carbonate with scattered knots or blebs of sulphide aggregate, to strongly foliated, banded segregations of alternating green, white and pink alteration types with scattered streaks of sulphides. Alteration was generally not captured in historical logs but it was as part of the 2018 re-logging program, with alteration minerals including calcite, carbonate, chlorite, clay, epidote, K-feldspar, sericite and silica described on a 1-5 scale representing subtle to intense.

## 7.3 Mineralization

Gold mineralization on the Scottie Gold property is hosted within a set of subparallel carbonate-quartz-sulphide shear veins that are here referred to as the "Summit Lake vein system". These veins are possibly derived from Texas Creek intrusions like the Summit Lake stock occurring in the northwest corner of the property or an unexposed intrusion occurring underneath the Scottie Gold mine. The Texas Creek plutonic suite is linked to several deposits in the so-called "Golden Triangle" area, including Premier-Dilworth, KSM and Brucejack. A reported 13 gold bearing veins occur on the property including the C- F, L- O, R, S, McLeod West, Six Ounces and Dave zones. The bulk of production was from the McLeod West and M zones with minor gold produced from the N and O zones. These veins appear to be localized along complex, sub-parallel shear or fracture zones.

The Summit Lake vein system is hosted with the Unuk River andesitic unit, with the veins reaching to within ~500 m of where the Summit Lake stock is exposed at surface. The gold-bearing veins are generally sub-vertical and northwest to southeast-trending, and are developed over a width of 200 m, strike length of 300-400 m and vertical extent of 300 m. This 200 m wide zone hosts several individual veins, which average 2 m in width and are up to 7 m wide. Veins show a range in sulphide content that includes lenses of massive sulphide consisting largely of pyrrhotite and pyrite with lesser sphalerite, chalcopyrite, galena, arsenopyrite, tetrahedrite and gold. Veins are bordered by siliceous replacement zones that wane into non-silicified andesite, with gangue minerals including quartz, carbonate, sericite, chlorite and minor epidote.

Anomalous gold values occur in shoots that are hosted in veins, with highest grades typically correlated with higher sulphide content. Base metal and silver values are in general, only slightly to moderately enriched. The style of mineralization is characteristic of those deposits classified as being intrusion related mesothermal veins (Alldrick and Höy, 1997).

## 8.0 RESULTS

The 2018 work program conducted on the Scottie Gold property included (1) prospecting the ~2 km long access tunnel leading from the historical camp location to the 3000' level, (2) relogging and resampling of historical drill core, (3) sampling and re-assay of historical coarse rejects, (4) auger sampling on the tailings mound outside of C portal, and (5) partial reclamation of historical camp and workings, as well reboxing of historical drill core.

### 8.1 Tunnel Prospecting

In 1978 the McLeod Group developed a 2.1 km long access tunnel from their work camp, located next to the Granduc road, through to the 3000' level. There are no maps or reports that suggest this tunnel was ever geologically mapped or prospected. The 2018 work program included prospecting of this tunnel from where it crosses onto the Scottie Gold property, at the 0.5 km mark, to its junction with the D portal 1.7 km.

Prior to prospecting, the tunnel was hard-chained at 25 m intervals with the metre marks spray painted on the tunnel wall. Shear veins were “logged” in GeoSpark software, which is a program usually applied for logging of drill core. In this case, veins or vein intervals were recorded as a hard-chained “from (m) and “to (m)” along with vein counts and average vein width to determine a vein density. Veins were also described in terms of composition and their strike and dip were measured with a Brunton compass.

#### 8.1.1 Geological Results

A total of 49 vein intervals were recorded, with 40 of these described as “calcite-dominant shear veins”, four as “massive calcite”, three as “massive quartz” one as “sulphide-calcite shear vein”, and one as “other”. Orientation measurements appear to define three groups (Figure 5); (1) 30 veins with an average orientation of 253°/66° north, (2) eight veins oriented at ~080°/55° south, and (3) five veins trending ~145°/75° south. All three of these groups trend subparallel to gold-bearing veins at the Scottie Gold mine.

Prospecting focussed on recording the mineralogy and orientation of shear veins, with samples taken from most of the larger veins and all of the sulphide-bearing ones. In total, 45 samples were taken (Figure 6a) with 25 of these, or 56%, described as “calcite-dominant shear vein”. Other rock types include andesite ± narrow shear veins and/or pyrite-pyrrhotite on fracture planes (N = 12), sulphide-calcite shear veins (N = 4), calcite-flooded andesite (N = 2), quartz-dominant shear vein (N = 1) and composite calcite-breccia with a clean calcite vein (N = 1). The host rocks were not mapped but generally comprised the so-called “middle andesite” of the Unuk River andesitic unit, as well as minor lamprophyre dikes.

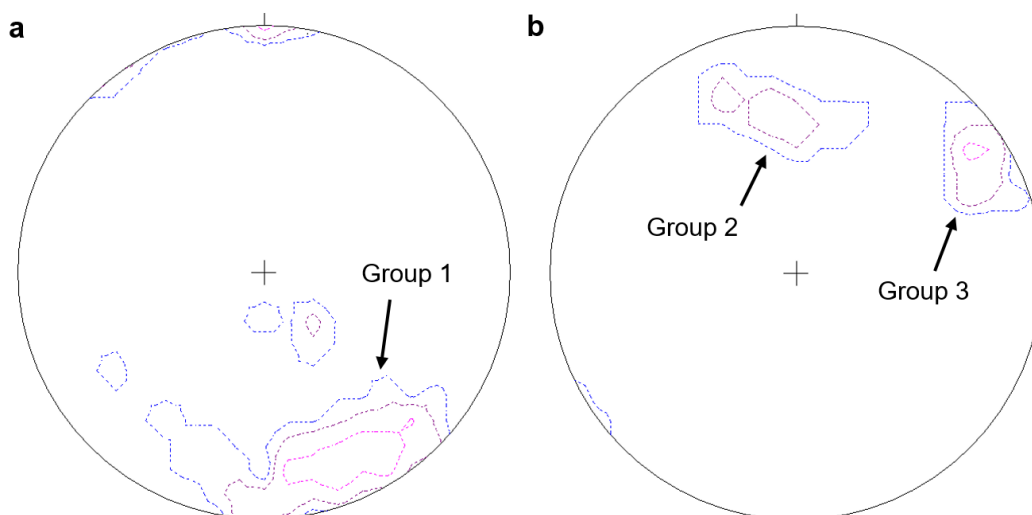
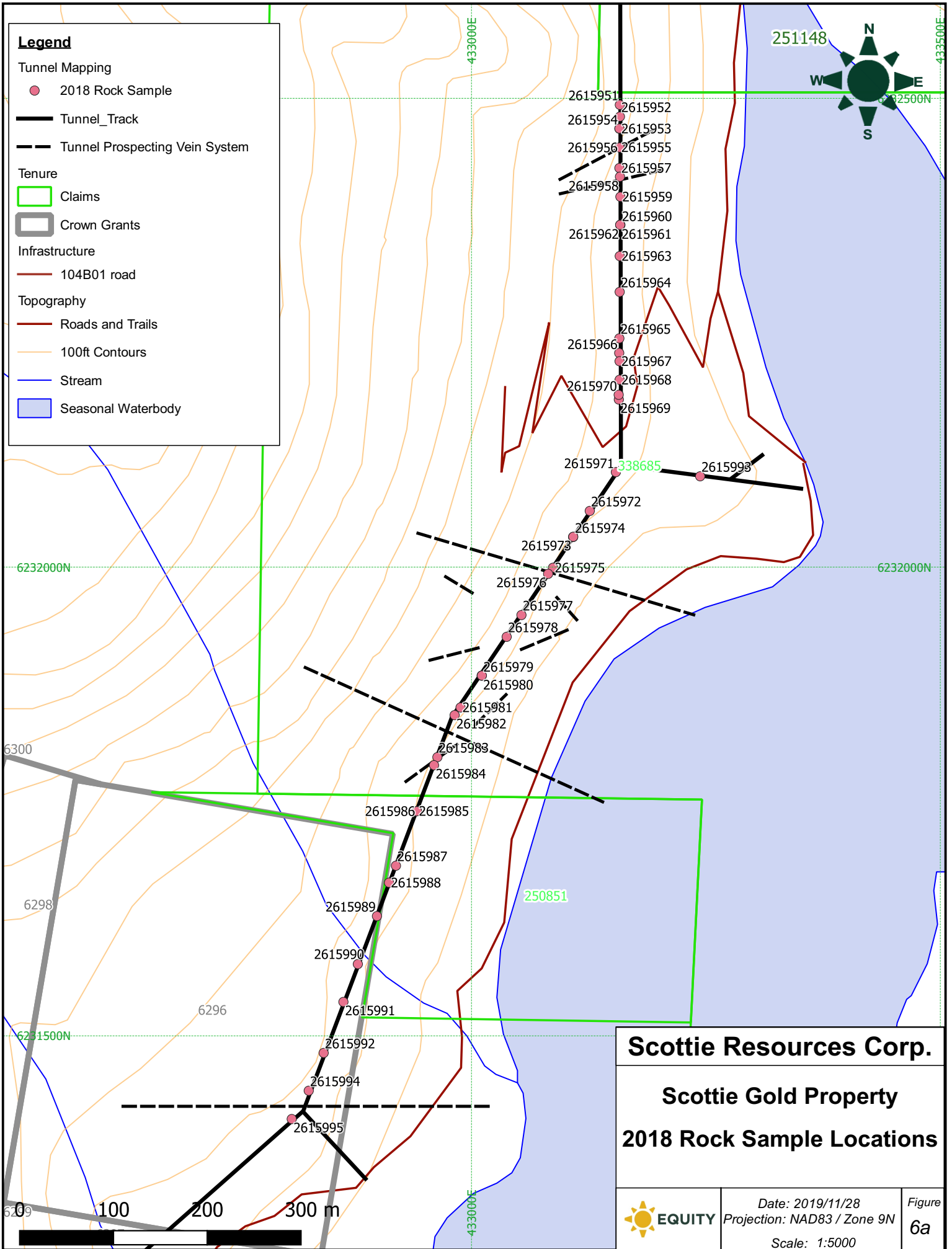
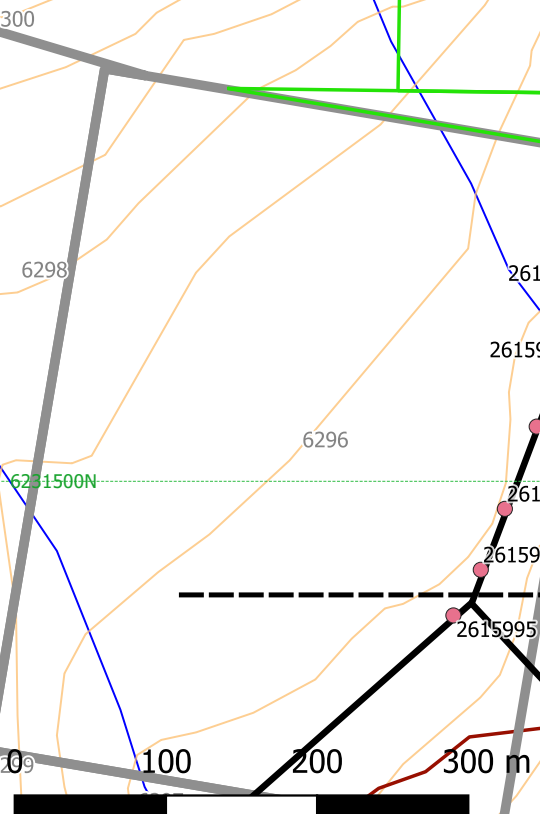
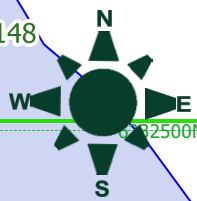


Figure 5: Equal area stereonet with density contours for Scottie access tunnel shear vein orientations , split into (a) group 1 (N = 30), (b) group 2 (N = 8) and group 3 (N = 5).



**Legend**

- Tunnel Mapping**
  - 2018 Rock Sample
  - Tunnel\_Track
  - Tunnel Prospecting Vein System
- Tenure**
  - Claims
  - Crown Grants
- Infrastructure**
  - 104B01 road
- Topography**
  - Roads and Trails
  - 100ft Contours
  - Stream
  - Seasonal Waterbody



**Scottie Resources Corp.**

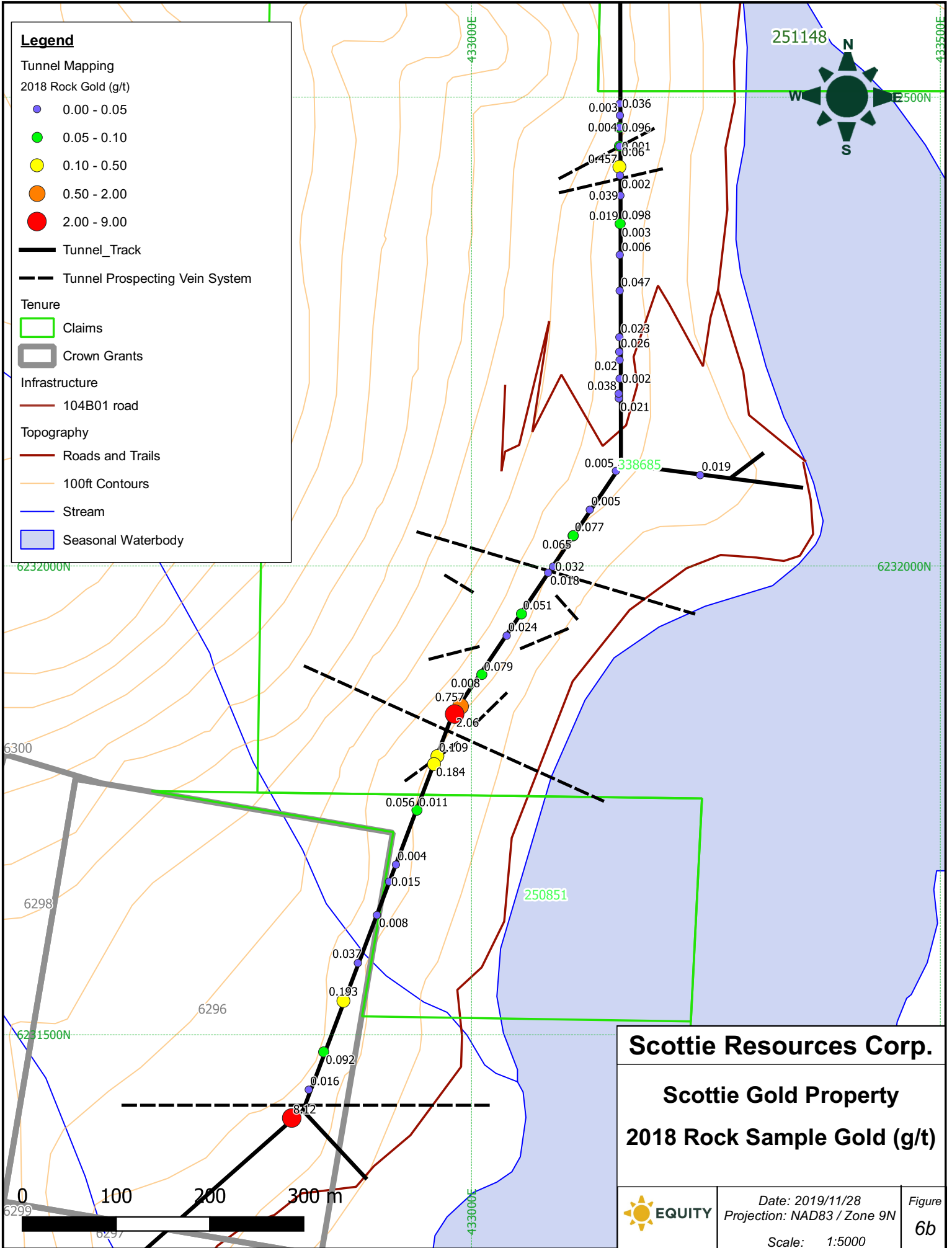
**Scottie Gold Property**

**2018 Rock Sample Locations**

EQUITY

Date: 2019/11/28  
 Projection: NAD83 / Zone 9N  
 Scale: 1:5000

Figure 6a



**Legend**

**Tunnel Mapping**

2018 Rock Gold (g/t)

- 0.00 - 0.05
- 0.05 - 0.10
- 0.10 - 0.50
- 0.50 - 2.00
- 2.00 - 9.00

— Tunnel\_Track

- - - Tunnel Prospecting Vein System

**Tenure**

- Claims
- Crown Grants

**Infrastructure**

- 104B01 road


**Topography**

- Roads and Trails
- 100ft Contours
- Stream
- Seasonal Waterbody

**Scottie Resources Corp.**

**Scottie Gold Property**

**2018 Rock Sample Gold (g/t)**

 EQUITY

Date: 2019/11/28  
 Projection: NAD83 / Zone 9N  
 Scale: 1:5000

Figure 6b

**Legend**

**Tunnel Mapping**

ROT18-02\_ROCK Zinc

- <500 ppm
- 500 - 1000
- 1000 - 5000
- 5000 - 10,000
- >10,000 ppm

- Tunnel\_Track
- Tunnel Prospecting Vein System

**Tenure**

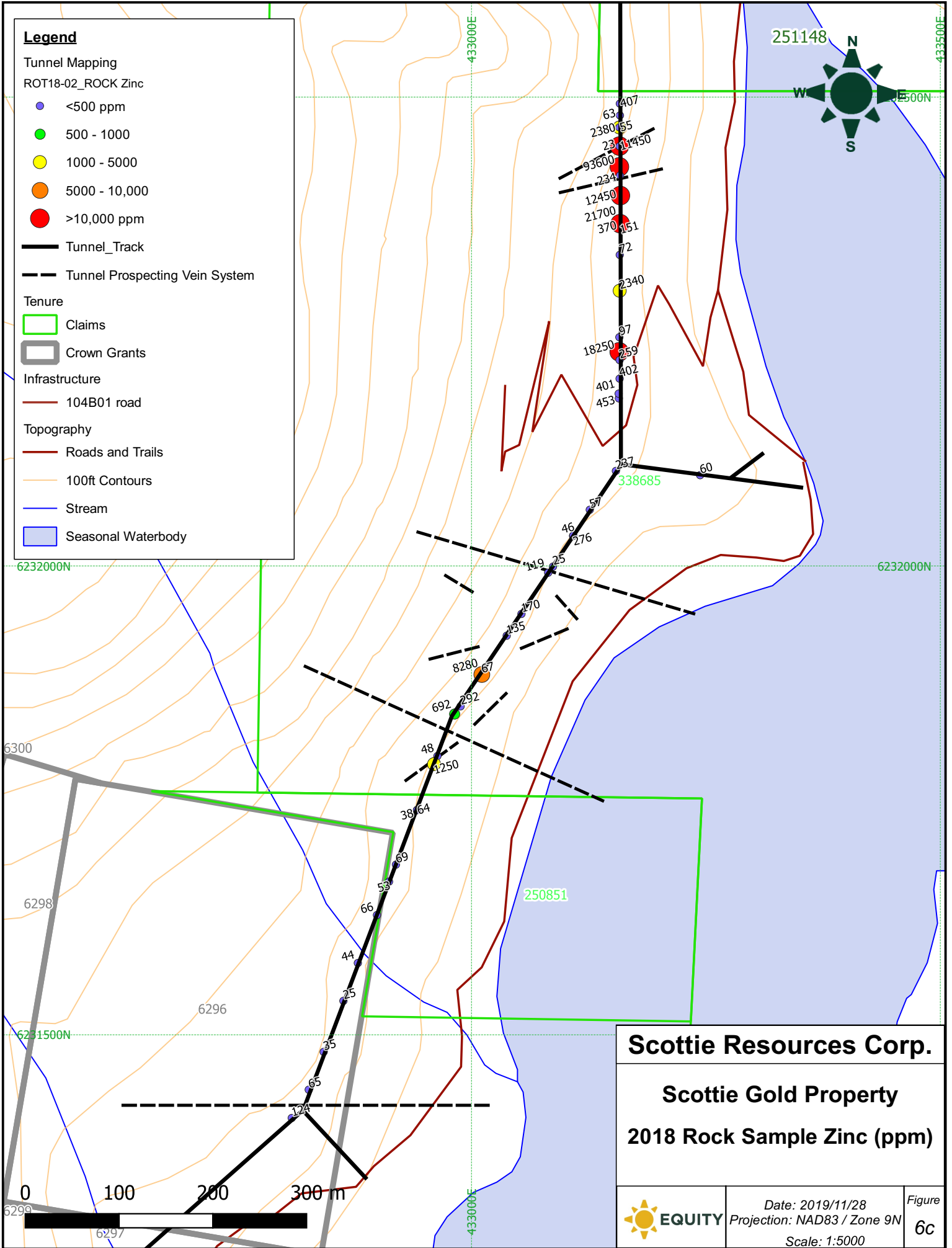
- Claims
- Crown Grants

**Infrastructure**

104B01 road

**Topography**

- Roads and Trails
- 100ft Contours
- Stream
- Seasonal Waterbody



**Scottie Resources Corp.**

**Scottie Gold Property**  
**2018 Rock Sample Zinc (ppm)**



Date: 2019/11/28  
Projection: NAD83 / Zone 9N  
Scale: 1:5000

Figure  
**6c**



### 8.1.2 Geochemical Results

Geochemical assay for all 45 samples was done with a four-acid digestion, which dissolves most silicate and sulphide minerals. However, barite and oxide minerals are generally refractory and some volatile elements (e.g. B, As, Pb, Ge, Sb) can be lost. Results show strong correlation ( $\rho \geq 0.7$ ) for Au and As but not for Au and Ag ( $\rho = 0.0$ ), with silver instead showing strong correlation with Cd, Hg, Pb, Sb, Se and Zn (Table 5). Another group of strongly correlated elements likely reflects a range on the abundance of feldspar (Al, Ga), pyroxene (Sc), magnetite/ilmenite (Ti, V), apatite (P) and zircon (Hf, Nb, Zr). Iron shows strong correlation with Bi, Co, Ni, S and Te, possibly representing an increase of pyrite and/or pyrrhotite.

Geochemical assay was integrated with hand sample descriptions to allocate each of the 45 samples among seven groups. The most populous of these groups is “calcite-dominant shear vein” (N = 17), which is characterized by <5% Al and <5% S, along with trace elements compatible in carbonate (Ce, Cs, La, Mn, Sr) and weakly elevated precious metals up to 0.1 g/t Au and 63 g/t Ag. This is followed by the “andesite with calcite” group, which contains >5% Al, <5% S and up to 11.9% Ca. The geochemical characteristics of this group are controlled by the minerals that occur in andesite like feldspar (Al, K, Na, Be, Rb), pyroxene (Sc), magnetite/ilmenite (Ti, V) and zircon (Zr, Nb, Hf). Three samples in the “andesite” group have similar geochemical characteristics.

Some of the samples in the “sulphide-calcite shear vein” group were identified through geochemistry, with four of these initially described as “calcite-dominant shear vein” but returning >5% sulfur. Other characteristics are <5% Al and what appears to be a bimodal Ca distribution, with five samples containing 11-16% Ca and three returning 4.7-5.4% Ca. These Ca-depleted veins contain higher sulfur, Fe, Ni and Co contents, suggesting they may simply contain more sulphur and/or quartz. In general, sulphide-calcite shear veins have elevated precious metals (Au, Ag), base metals (Cu, Pb, Zn, Ni) and chalcophile trace elements (As, Bi, Cd, Co, Hg, In, Re, Sb, Se, Sn, Te).

Two samples of “sulphide-rich andesite” show similar geochemistry to the sulphide-calcite shear vein group, including enrichment in precious metals and, to a lesser extent, base metals and chalcophile trace elements. However, this group is also enriched in elements that are more typical of the “andesite” and “andesite with calcite” groups, indicating the presence of feldspar (Al, Ga), pyroxene (Sc) and ilmenite/magnetite (V).

**Table 5: Correlation coefficients for select elements from the 45 tunnel samples**

	Ag	Au	As	Bi	Ca	Cd	Cu	Fe	Hg	Mg	Mn	Mo	Pb	S	Sb	Sn	W	Zn
Ag																		
Au	0.0																	
As	0.2	0.8																
Bi	0.2	0.1	0.0															
Ca	0.0	-0.1	-0.2	-0.2														
Cd	0.9	0.0	0.2	0.1	0.1													
Cu	0.5	0.1	0.1	0.7	-0.2	0.3												
Fe	0.1	0.1	0.0	0.8	-0.4	0.0	0.6											
Hg	0.9	0.0	0.2	0.2	0.0	1.0	0.4	0.1										
Mg	-0.2	-0.1	-0.2	-0.3	-0.3	-0.2	-0.2	-0.1	-0.3									
Mn	0.2	-0.1	0.0	-0.1	0.7	0.3	0.0	-0.3	0.3	-0.3								
Mo	-0.1	0.1	0.1	0.0	-0.2	-0.1	0.0	0.0	-0.1	0.1	-0.1							
Pb	0.9	0.0	0.2	0.0	0.1	1.0	0.2	-0.1	0.9	-0.2	0.2	0.0						
S	0.4	0.3	0.2	0.6	-0.2	0.3	0.6	0.8	0.3	-0.3	-0.1	0.0	0.2					
Sb	0.9	0.2	0.4	0.1	-0.1	0.8	0.3	0.1	0.8	-0.3	0.1	0.0	0.9	0.4				
Sn	0.1	-0.1	-0.2	0.0	-0.2	0.0	0.2	0.2	0.0	0.3	-0.1	0.0	0.0	0.2	-0.1			
W	0.1	0.0	0.0	0.7	-0.1	0.1	0.6	0.6	0.2	-0.2	-0.1	0.0	0.0	0.4	-0.1	0.0		
Zn	0.9	0.0	0.2	0.1	0.1	1.0	0.3	-0.1	1.0	-0.2	0.3	0.0	1.0	0.3	0.9	0.0	0.0	

The “quartz-calcite shear vein” group comprises three samples initially described as “calcite-dominant shear vein” but with anomalously low Ca ( $\leq 5.1\%$ ) and carbonate trace element contents and no notable increases in other elements. Most likely this reflects a higher proportion of quartz. These veins show weak enrichment in precious and base metals, suggesting they are part of the same vein suite as the calcite-sulphide and calcite-dominant groups.

The last, and seventh, group is referred to as “2<sup>nd</sup> generation calcite?” and characterized by very high Ca ( $\geq 23.9\%$ ) along with elevated Ce, Mg, Mn and Sr. Most other elements are depleted. Hand sample descriptions suggest clean and composite calcite veins, rather than banded shear veins, that are suspected of comprising a barren 2<sup>nd</sup> generation of calcite veining, possibly related to brittle faulting.

Five of the 10 highest gold assays were returned from the sulphide-calcite vein group, including the highest assay from the 2018 tunnel prospecting program at 8.1 g/t Au. The second highest assay, however, was returned from sulphide-rich andesite (2.1 g/t Au) whereas three samples of calcite-dominant shear veins and one sample of calcite-quartz shear vein also returned assays between 0.1-0.2 g/t Au. The highest silver values occur in similar rock types, with the highest value of 236 g/t Ag occurring in a sulphide-carbonate vein along with 0.5 g/t Au, 0.5% Cu, 5.9% Pb, 9.4% Zn and very high abundances of Cd, Hg, Sb and Se.

**Table 6: Selection of samples collected as part of the 2018 tunnel prospecting program**

Sample ID	Zone	GLGY/GC Group	Hand sample description	Au (ppm)	Ag (ppm)	Cu (%)	Pb (%)	S (%)	Zn (%)
2615995	DP zone	SX-CAL shear vein	SX-CAL shear vein	8.12	5	0.25	0.01	6.4	0.01
2615982	CPS zone	SX-rich andesite	Sheared andesite	2.06	9	0.11	0.00	5.1	0.07
2615981	CPS zone	SX-CAL shear vein	SX-CAL vein	0.76	2	0.05	0.00	5.2	0.03
2615957	C or D zone	SX-CAL shear vein	CAL-dominant shear vein	0.46	236	0.45	5.90	7.2	9.36
2615991	-	CAL-QTZ(?) shear vein	CAL-dominant shear vein	0.19	1	0.00	0.00	1.7	0.00
2615984	CPS zone	SX-CAL shear vein	CAL-dominant shear vein	0.18	39	0.48	0.03	5.5	0.13
2615962	C or D?	CAL-dominant shear vein	CAL-dominant shear vein	0.10	58	0.05	1.31	3.0	2.17
2615980	CPS zone	SX-CAL shear vein	SX-CAL shear vein	0.08	50	0.99	0.05	>10.0	0.83
2615964	-	CAL-dominant shear vein	CAL-dominant shear vein	0.05	63	0.73	0.01	3.3	0.23
2615959	C or D?	CAL-dominant shear vein	CAL-dominant shear vein	0.04	30	0.01	0.71	1.5	1.25

### 8.1.3 Integration of Geological and Geochemical Results

The most significant result of the 2018 tunnel prospecting program is that eight of the sulphide-calcite shear vein and sulphide-bearing andesite samples occur consecutively over 245 m of tunnel between hard-chained lengths 1040 m to 1285 m (Figure 6b). This interval is centered ~500 m south of the C and D zones and ~1400 m northeast of the mine, in an area previously unknown as hosting mineralized veins. Orientations are, on average, east-west striking and either steeply north or south dipping but include NE-SW and NW-SE trending veins. Samples from this interval include six sulphide-calcite veins, two calcite-dominant shear veins and two sulphide-rich andesites, which together average 0.3 g/t Au, 14 g/t Ag, 0.2% Cu and 0.1% Zn. This zone is here referred to as “C portal south (CPS) zone”.

The highest-grade sample returned from the 2018 tunnel prospecting sample (8.1 g/t Au) was collected from the end of the traverse at tunnel length 1690 m. This sample is preceded by ~400 m of andesite that mostly lacks sulphide occurrences and is here referred to as comprising part of the “D portal (DP) zone”.

One other sulphide-calcite shear vein was mapped at a tunnel length of 586 m, and is notable for returning the highest Ag, Pb and Zn grades (Figure 6c). This sample is possibly coincident with the C and D zones, and the vein orientations taken in this area are generally northeast to southwest striking and steeply northwest dipping, similar to orientation noted in outcrops above the tunnel.



## 8.2 Drill Core Relogging and Resampling

The 2018 work program included the relogging of 25 holes for 3113.7 m (Figure 7). The initial plan was to relog holes from the 500-, 600- and 700-series, most (and possibly all) of which were drilled during or after the mine was in operation. However, only the 700-series could be easily located on the Property as they were cross-stacked outside of the mine workings. Some (or all?) of the 300- and 400-series holes were located inside of the mine workings and could possibly be salvaged with a comprehensive reboxing and core moving program. The location of the 500- and 600-series is currently unknown.

Objectives of the relogging program were to record all intervals of “Summit Lake zone” (SLZN) and obtain multi-element analyses of previously unsampled and sampled SLZN intervals. An interval of “SLZN” was defined as containing any of the following: (1) quartz-carbonate ± sulphide shear veins, (2) notable increase in andesite-hosted sulphide, (3) increased chlorite, sericite, carbonate and/or silica alteration, and/or (4) penetrative deformation fabric. These features were recorded in the Veining, Mineralization, Alteration and Structure tables of the GeoSpark logging software used for data capture on this program.

### 8.2.1 Geological Results

Intervals of Summit Lake zone (SLZN) identified in the 2018 relogging program are 4-5 times more extensive than historical logging of Summit Lake veins (i.e. see Table 4). The relogged SLZN coincide with the historically logged Scottie gold veins but also define coherent structures that trend parallel to these veins but lack mineralized intercepts. The implication, however, is that these structures may be mineralized elsewhere along strike, downdip and/or up-dip. The 2018 approach expands the footprint for identifying additional mineralized structures on the Scottie Gold property.

Of the 164 SLZN features logged across 25 holes, 84% of them contain either sulphide ± calcite, calcite-only and/or quartz-rich shear veins, with the remainder either hosting “other” veins or lacking veins. Sulphide-bearing calcite and calcite-only shear veins are the most abundant, occurring in 48% and 36% of SLZN intervals respectively. Quartz-rich shear veins are relatively rare (4% of SLZN).

Other widespread indicators of SLZN include pyrite, pyrrhotite, chlorite and sericite. Greater than 2% pyrite occurs in 88% of SLZN intervals, typically as fine disseminated grains in andesite but also as blebs and stringers or massive bands in shear veins. 47% of SLZN contain pyrite as the only sulphide whereas another 36% contain pyrite and pyrrhotite. There are no SLZN intervals where pyrrhotite is recorded as the only sulphide. Arsenopyrite, chalcopyrite and/or sphalerite occur in 5.5% of all SLZN, and in all cases are associated with both pyrite and pyrrhotite. Chalcopyrite and sphalerite were recorded in the one hole relogged from the C-D zones (SG-16-15) whereas arsenopyrite and sphalerite were found in holes from the Scottie Gold mine.

Secondary chlorite was recorded in 51% of SLZN intervals, either on its own or together with sericite, silica, carbonate, clay and/or K-feldspar. The chlorite-sericite assemblage occurs in 23% of SLZN, making it the most abundant alteration assemblage. Sericite occurs in 39% of SLZN, mostly with chlorite or on its own. Silica and carbonate are the next most widespread alteration types, occurring in ~5-10% of SLZN intervals. Clay and K-feldspar were described from <2% of these intervals.

Only about one-third (55/164) of SLZN intervals were described as showing notable penetrative deformation (“foliation”). Three 60-70 m long intervals of breccia were noted in three holes drilled from the same pad, and likely comprise the same breccia unit. There were no SLZN noted within this breccia.

### 8.2.2 Geochemical Results

The 2018 resampling program collected 115 samples from historical drill core, with 52 of these collected across previously sampled intervals. In general, gold appears to lack even moderate correlation ( $\rho \geq 0.5$ ) with other elements whereas silver shows moderate to strong correlation with Bi, Cd, Cu, Fe, Hg, In, Pb, S, Sb, Se, Te and Zn. Other strongly ( $\rho \geq 0.7$ ) associated element groups include Al-Be-Ga-Na-Nb-Ta-Ti-Y (feldspar, magnetite/ilmenite?), As-Co (pyrite?), Cd-Hg-In-Pb-Zn (galena, sphalerite?), and Hf-Nb-Ta-Th-Ti-Zr (zircon?).

431800E

431850E

431900E

431950E



6231250N

6231250N

6231200N

6231200N

6231150N

6231150N

6231100N

6231100N

6231050N

6231050N

431800E

431850E

431900E

431950E

**Legend**

- ◆ Relog Collars (Hole ID shown)
- Reject Drill Collars (Hole ID shown)

**Tunnel Mapping**

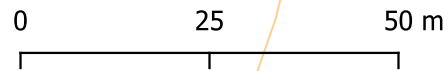
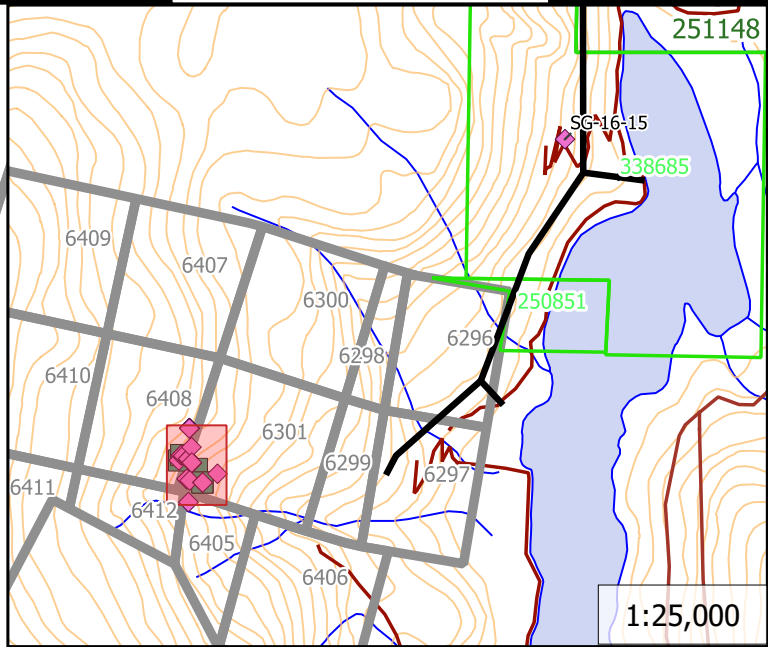
- Tunnel\_Track

**Tenure**

- Claims
- ScottieGold\_Claim\_251148
- Crown Grants

**Topography**

- Roads and Trails
- 100ft Contours
- Stream
- Seasonal Waterbody



**Scottie Resources Corp.**

**Scottie Gold Property**

**Reject Sample and Relogged Holes  
Collar Location**



Date: 2019/11/28  
 Projection: NAD83 / Zone 9N  
 Scale: 1:1000

Figure  
**7**

The 63 samples taken from historically unsampled intervals include mostly (1) weak expressions of SLZN (e.g. weak chlorite-pyrite alteration with no shear veins), or (2) unaltered andesitic host rocks to help establish background geochemical thresholds. Three shoulder samples of a high-grade zone were also taken.

Results from the previously unsampled intervals failed to identify significant gold mineralization, with the highest grade returned comprising 0.2 g/t Au and just three other samples exceeding 0.1 g/t Au. These assays are from four different holes and none of them are shoulder samples from previously identified zones. Results for the 52 samples taken from previously sampled intervals are discussed in section 8.2.3 below.

Nine samples of relatively unaltered andesitic host rock are characterized by low Au (5 ppb), Ag (0.2 ppm) and base metal values (20-260 ppm Cu, 2-12 ppm Pb, 20-30 ppm Zn), along with low abundances of typical pathfinder elements (As, Bi, Cd, Hg, S, Sb, W). Relatively elevated elements include those compatible in feldspar (Al, Ba, Ga, K, Na, Sr), pyroxene (Cr, Mg, Sc) and ilmenite/magnetite (Ti, V).

In comparison to the representative andesite samples described in the above paragraph, altered andesite averages slightly higher concentrations of Au (29 ppb), Ag (0.4 ppm), base metals and most pathfinders. Conversely, the altered andesite group shows slightly lower abundances of elements that occur within feldspar, pyroxene and magnetite/ilmenite, either because these elements were remobilized and/or diluted through the introduction of secondary minerals and/or veining.

The highest gold and silver grades occur in Summit Lake zones characterized as pyrite-bearing with or without chlorite alteration and/or sulphide-calcite shear veins. Out of the 55 SLZN intervals that fit this criteria, 12 returned assays >1 g/t Au and 13 assayed 0.1-1.0 g/t Au. The average Au grade for these 55 samples is 3.4 g/t Au uncapped and 1.7 g/t Au when capped at 20 g/t Au. These intervals also include an average of 4.6 g/t Ag along with elevated As, Bi, Cd, Co, Cu, Fe, Hg, In, Ni, Pb, S, Sb, Se, Te, Tl, W and Zn.

Summit Lake zones that include silica alteration or calcite-only veins have precious metal values that fall in between the altered andesite and pyrite ± chlorite ± sulphide-calcite shear vein SLZN described above. Gold values average 0.1 g/t Au, with only one of the 21 samples in this suite returning >1 g/t Au. Silver averages 2.0 g/t Ag whereas pathfinder elements are likewise depleted relative to the pyrite ± chlorite ± sulphide-calcite shear vein SLZN group but enriched relative to altered andesite.

### 8.2.3 Correlation of 2018 and Historical Assays

Sampling of previously sampled intervals was done on the basis of relogged geology and so, in most cases, the resampled intervals fail to exactly match the historical one, preventing direct comparison of 2018 and historical assays. To mitigate, assays were compared in the following three ways: (1) 2018 result against the highest historical assay within the 2018 interval, (2) compositing historical assays to the 2018 intervals, and (3) the same as method (2) but including unsampled lengths in the composite at 0.0 g/t Au.

Comparison of 2018 results to the highest historical assay in that interval (method 1) returned a decent correlation coefficient ( $R^2$ ) of 0.81 (Figure 8a), although the strength of this correlation is strongly dependent on three samples that assayed >10 g/t Au. Removing these higher-grade samples to focus on assays <10 g/t Au reduces  $R^2$  to 0.15 (Figure 8a - inset). The average coefficient of variance ( $CV_{avr}\%$ ) was calculated at 61.8%, which is poor for even the coarsest gold deposits (Abzalov, 2008).

Methods 2 and 3 are attempts to improve the correlation of 2018 and historical assays by compositing the historical assays to the 2018 interval. Comparison of 2018 assays to method 2 composites returned an increase in correlation to  $R^2 = 0.91$  (Figure 8b) and a slight improvement in  $CV_{avr}$  to 58.8%. In addition, the scatter plot for samples <10 g/t Au shows a tightening toward the  $M=1$  line (Figure 8b - inset) although the correlation remains very poor ( $R^2 = 0.19$ ).

Adding 0.0 g/t Au values for the historically unsampled parts of the composite (i.e. method 3) resulted in a slight decrease in  $R^2$  to 0.88 (Figure 8c) but improvement of  $CV_{avr}$  to 51.9%. Perhaps most significant is a dramatic improvement in correlation at lower grades, with  $R^2$  increasing to 0.49 (Figure 8c - inset) from 0.15-0.19. The  $CV_{avr}$  value of 51.9% lies outside of the 40% threshold considered “acceptable” for orogenic gold deposits (Abzalov, 2008) but could be considered “acceptable” given the uncertainty of comparing the 2018 assays against composited historical data.

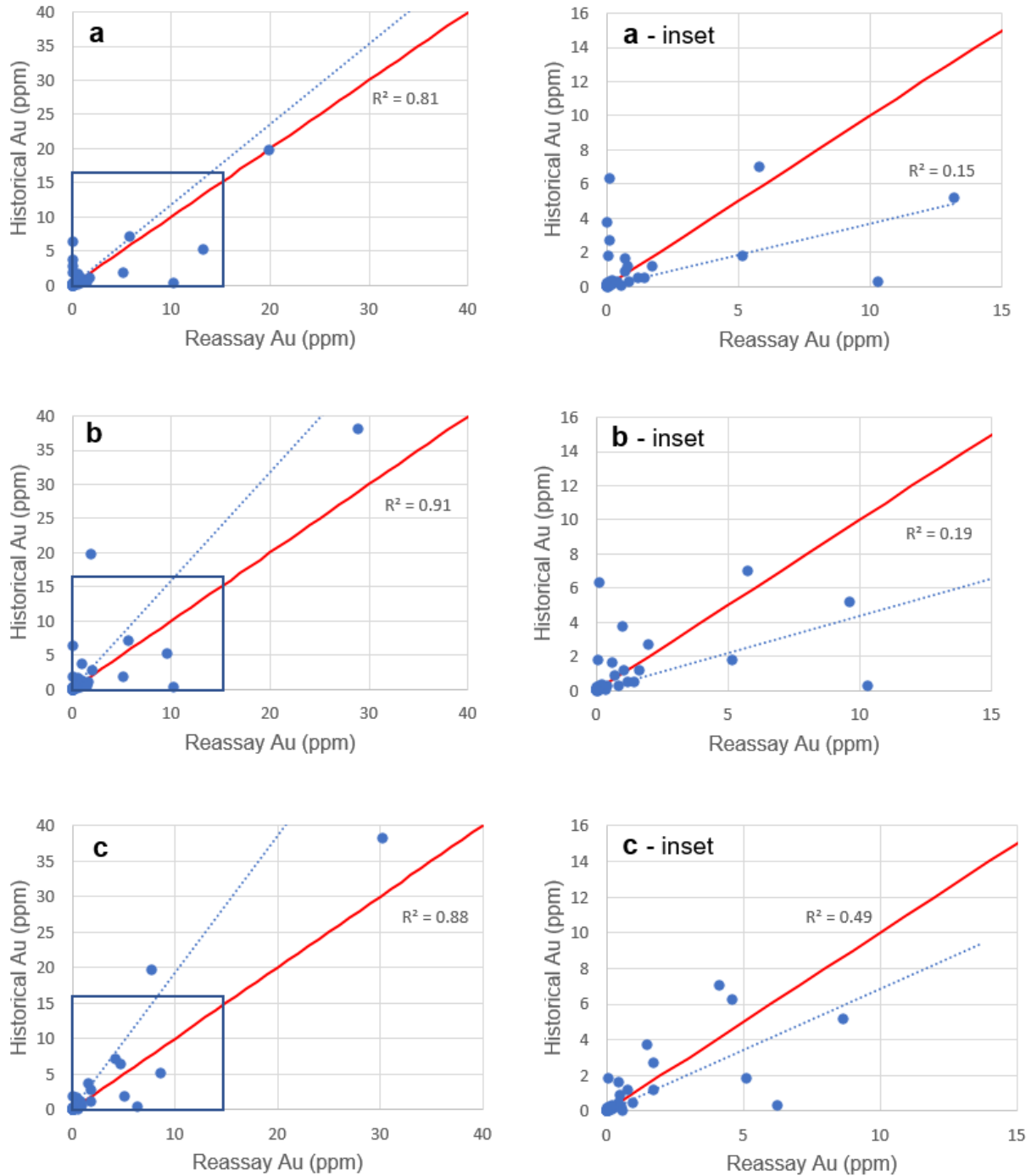


Figure 8: Scatter plots of historical assays and 2018 re-assays showing (a) resampling with no compositing, (a – inset), resampling with high grade removed, (b) resampling composite method one, (b – inset) resampling composite method one, clipped, (c) resampling composite method two, and (c – inset) resampling composite method two, clipped.

For all three methods, the 2018 assays returned higher gold values than historical results, with percent differences averaging +7.1%, +2.3% and +0.9% respectively. Average grades are 3.6 g/t Au for the 2018 assays and 3.3 g.t, 2.5 g/t and 2.2 g/t Au for methods 1-3 respectively. The bulk of the difference is from the three samples that returned >10 g/t Au. For samples with <10 g/t Au, the averages for the 2018 samples and the various historical composites all range from 0.8-0.9 g/t Au.

### 8.3 Reject Resampling

Ten reject samples were submitted for reanalysis in 2018, taken from 6 historical drill holes (Figure 7). These samples are listed in Table 7 along with the 2018 and historical assay results. Correlation between historical values and 2018 re-assays (Figure 9) are strong for all of the gold assays ( $R^2 = 0.95$ ) and for eight of nine silver assays ( $R^2 = 0.91$ ). One silver assay (sample ID 2615746) was excluded from the correlation as it showed very poor reproducibility (Table 7) whereas sample 2615748 did not have a historical assay for Ag. Excluding these two samples, however, shows correlation of for the eight remaining Ag assays.

The 2018 re-assays are, again, higher than the historical ones, with gold assays averaging 43% higher and silver 14%. Gold assays average 44.9 g/t Au and 7.0 g/t Ag for the 2018 re-assays in comparison to 39.0 g/t Au and 6.7 g/t Ag for the historical ones.

The 2018 coarse reject re-assays can also be used to evaluate correlation between various elements. Gold, for example, shows strong correlation ( $\rho \geq 0.7$ ) with Cu, Fe, P and V but negative correlation with arsenic ( $\rho = -0.4$ ), in contrast to the tunnel samples. Silver, on the other hand, is strongly correlated with Ni, Re and S whereas Zn shows strong correlation with Cd, Hg, Li, Pb and W. These results, again, suggest that gold behaves separately from base metals but also suggest divergence of silver from base metals.

**Table 7: Comparison of historical and 2018 coarse reject re-assays from the Scottie Gold project**

2018 ID	Historical ID	Hole ID	From (m)	To (m)	Length (m)	Historical Assay		2018 Coarse Reject Assay	
						Au (g/t)	Ag (g/t)	Au (g/t)	Ag (g/t)
2615740	77125	721	99.12	99.82	0.70	6.4	6.0	6.8	6.1
2615741	77476	728	43.37	44.10	0.73	17.6	5.6	20.6	7.0
2615742	77533	730	64.01	64.77	0.76	56.0	5.0	80.6	7.8
2615743	77400	726	46.88	47.18	0.30	10.4	8.4	16.6	6.6
2615744	77534	730	64.77	65.53	0.76	165.1	15.6	153.0	15.9
2615745	77530	730	57.55	58.22	0.67	15.2	1.9	17.5	2.8
2615746	77604	732	106.68	107.35	0.67	42.8	1.9	62.9	22.1
2615747	77605	732	107.35	108.02	0.67	23.0	10.3	23.7	9.9
2615749	77124	721	98.15	99.12	0.98	0.0	1.3	0.1	1.3
2615748	29690	707	61.26	61.87	0.61	53.2	ND	67.1	5.4

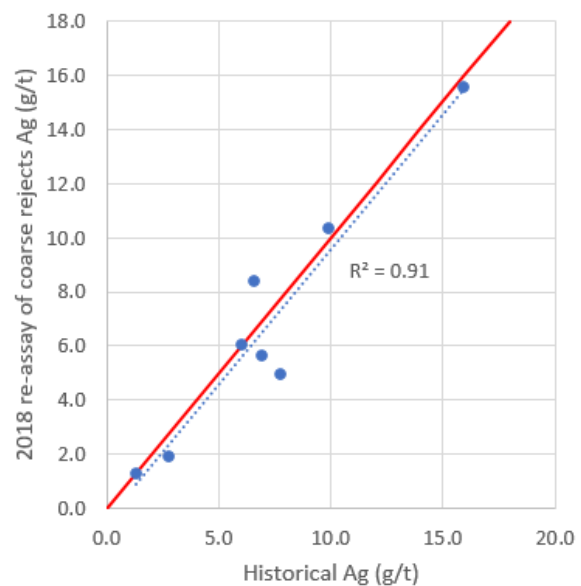
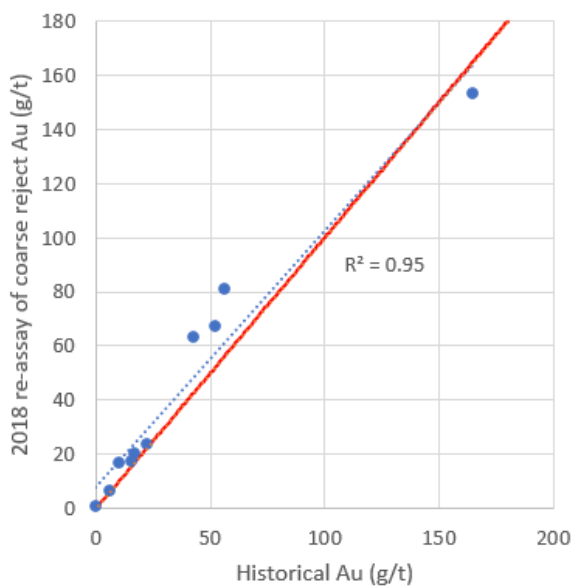


Figure 9: Scatter plots showing the correlation between historical and 2018 coarse reject re-assays for (left) gold and (right) silver.



## 8.4 Tailings Sampling

One of the larger tailing dumps from the 1980-1984 mining operations is located just outside of C portal, extending from just east of the access road and across ~35 m of vertical relief into the Summit Lake basin. Tailings developed on the slope consist mostly of boulder- to cobble-sized material at surface and fine downslope, with tailings lower down on the slope including mounds of pebbles, sand and silt. Tailings in the flat-lying Summit Lake basin consist of well-sorted silt sand (Figure 10).

The objectives of the 2018 tailing sampling program were to conduct a more systematic sampling of the sandy-silty tailings in the Summit Lake basin, and to test if there was any variance in grade with depth. To do this, samples were taken at surface and with a 3 m long Dutch auger at average depth intervals of 0.65 m. Sample depths were determined with a tape measure and each sample was placed in a polyethylene bag along with a unique sample ID. The auger was cleaned in between different sampling stations but not in between taking samples from the same hole.

In total, 74 samples were collected from the tailings pile for an average of 5-6 per hole. Twelve of the 14 holes (Figure 11) were drilled to the maximum auger length of 3 m whereas two were abandoned in gravel that presumably marks the base of the tailings pile. Each hole started in rusty-coloured tailings that then become dark steely grey at depths of 0.2-0.3 m. Water content typically increased downhole with most samples taken below 2 m depth completely saturated with water.

Gold assays for all 74 samples ranged from 0.2-6.2 g/t Au and average 2.1 g/t Au (Table 8). Composite grades for each hole range from 0.7-4.2 g/t over 1.7 to 3.1 m, respectively, and average 2.0 g/t Au over 2.8 m. These composites also include an average of 7.4 g/t Ag, 0.09% Cu, 0.08% Pb and 0.2% Zn, in addition to 0.11% As, 0.2 ppm Hg and 8.3% sulfur. There is some indication that grades increase with depth (Figure 12), with samples taken at depths <1.5 m averaging 1.7 g/t Au and those taken at depths >1.5 m averaging 2.6 g/t Au. Silver, Cu, Pb, Zn, As, Hg, Mo and sulfur show a similar pattern.

Plotting of gram\*metre composite values for each auger hole shows a distinct horizontal zonation within the tailings pile, with the highest gram-metre samples occurring in the central part of the pile and decreasing outwards to the north, east and south (Figure 11). Together with the grade profiles, these results suggest that gold values in tailings show both a horizontal and vertical gradation with highest grades expected towards the base of the central part of the tailings pile.

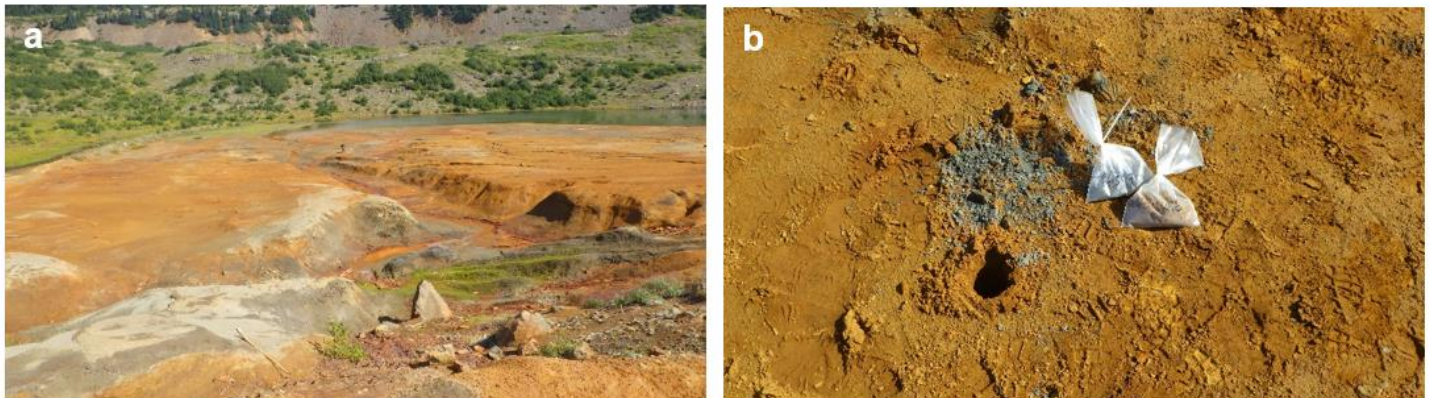
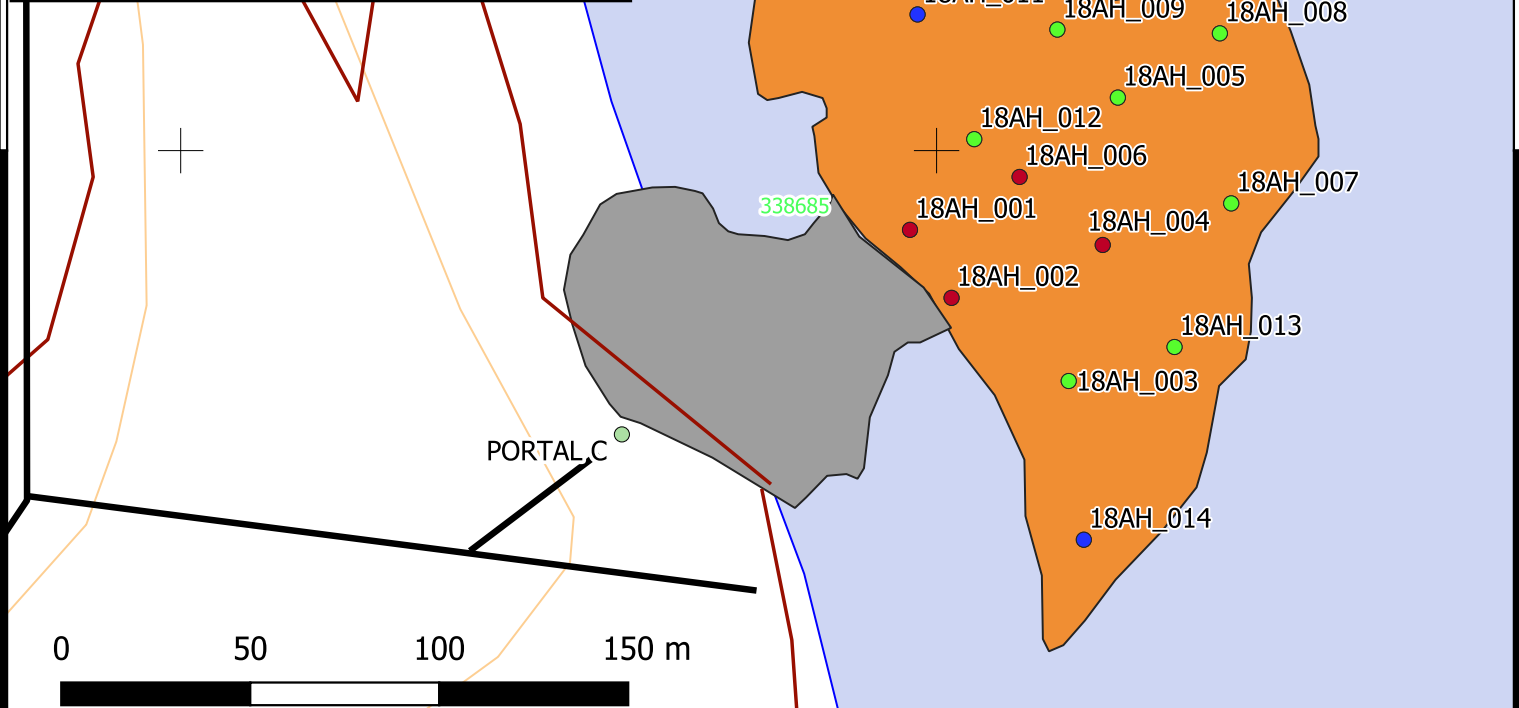
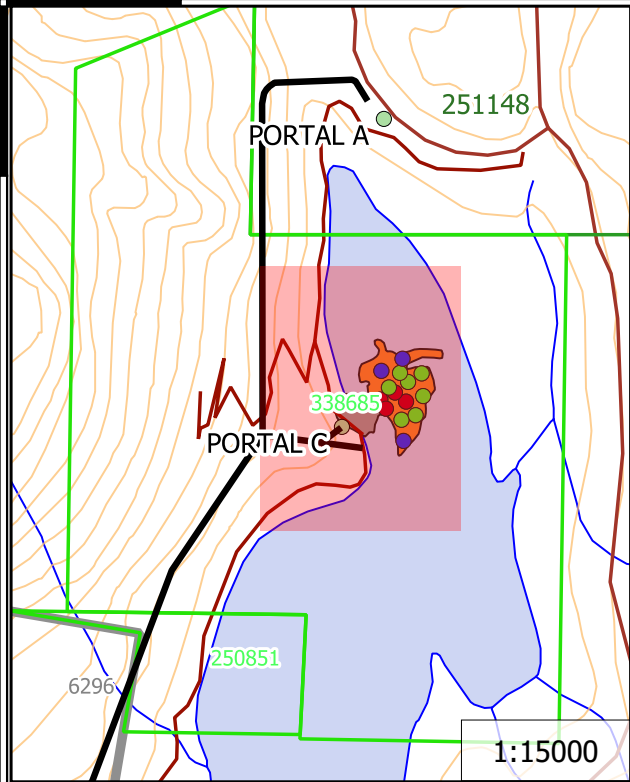
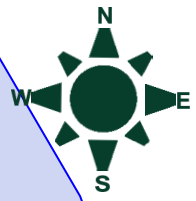


Figure 10: Photos of the sampled tailings on the Scottie Gold property showing (a) overview and (b) close-up of an auger hole, with rusty sandy-silt at surface and grey silt from >0.3 m depth scattered just above the hole. Poly bags contain tailing samples.



**Legend**

- |                                 |                                  |
|---------------------------------|----------------------------------|
| <b>Composited Auger Samples</b> | — 104B01 road                    |
| ● <4.00 Au gram metres          | <b>Tailings Pond Composition</b> |
| ● 4.00 - 8.00 Au gram metres    | ■ Sandy Silty Tailings           |
| ● >8.00 Au gram metres          | ■ Tailing rocks, minor sand/silt |
| — Tunnel_Track                  | <b>Topography</b>                |
| <b>Tenure</b>                   | — Roads and Trails               |
| □ Claims                        | — 100ft Contours                 |
| □ Crown Grants                  | — Stream                         |
| <b>Infrastructure</b>           | ■ Seasonal Waterbody             |
| ● Portals                       |                                  |

**Scottie Resources Corp.**

**Scottie Gold Property  
Tailings Auger Samples**

Gold values and collar ID's for auger samples in the Scottie Gold tailings

	Date: 2019/11/28	Figure
	Projection: NAD83 / Zone 9N	11
	Scale: 1:2000	

Table 8: Assay composites for 2018 auger holes

Auger Hole ID	Length (m)	Au (g/t)	Ag (g/t)	As (ppm)	Cu (%)	Hg (ppm)	Pb (%)	S (%)	Zn (%)
18AH_001	3.05	4.21	8.9	1385	0.08	0.2	0.08	8.7	0.17
18AH_002	3.3	2.50	10.2	1343	0.09	0.3	0.10	9.2	0.28
18AH_003	3.2	2.12	7.2	1095	0.08	0.2	0.08	8.9	0.19
18AH_004	3.2	2.74	8.9	1298	0.10	0.2	0.09	9.3	0.23
18AH_005	2.5	1.80	7.0	949	0.09	0.2	0.07	8.9	0.19
18AH_006	3.3	2.65	7.9	1151	0.09	0.2	0.08	8.7	0.19
18AH_007	3.25	1.80	7.2	1056	0.09	0.2	0.06	8.9	0.20
18AH_008	2.6	1.72	7.2	1131	0.08	0.2	0.08	8.4	0.20
18AH_009	3	1.47	7.6	1084	0.09	0.2	0.09	8.2	0.20
18AH_010	0.9	1.81	7.2	1716	0.09	0.3	0.07	8.2	0.20
18AH_011	2.4	1.20	7.3	1097	0.10	0.2	0.09	8.4	0.22
18AH_012	3	2.39	7.5	1043	0.08	0.2	0.08	8.6	0.20
18AH_013	3.3	1.43	7.8	1347	0.10	0.2	0.08	9.3	0.24
18AH_014	1.7	0.70	2.2	444	0.02	0.1	0.02	2.8	0.05

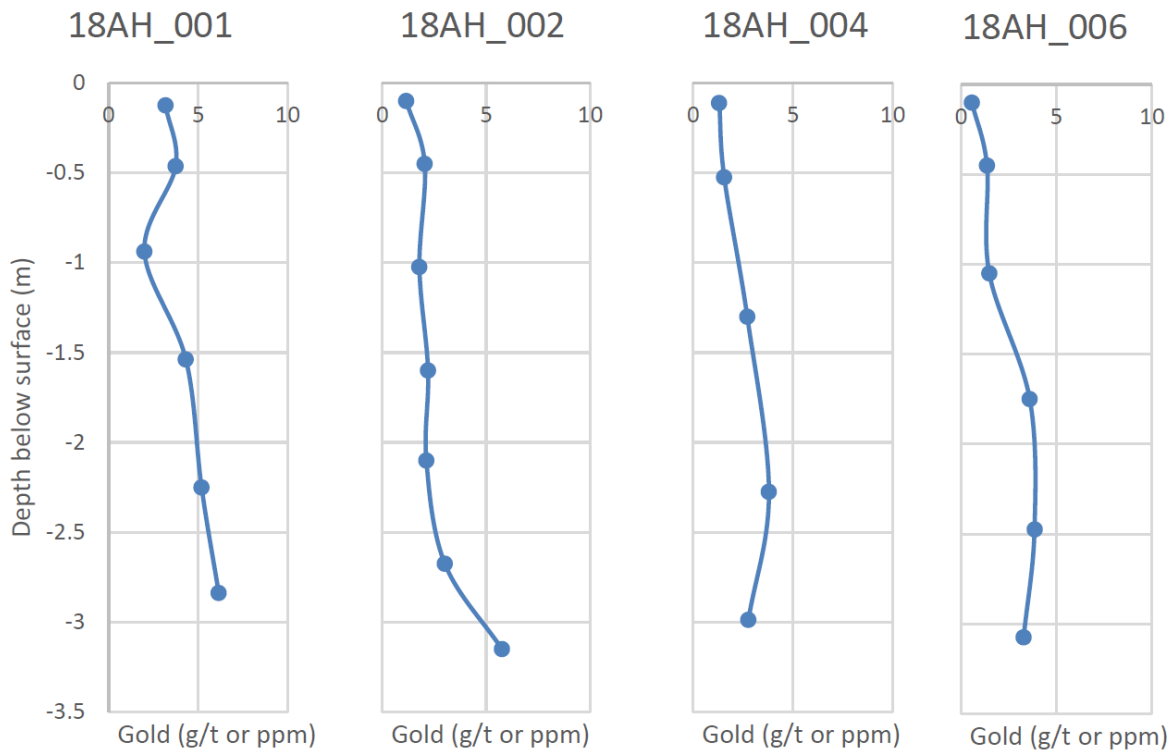


Figure 12: Grade-depth profiles for four of the 14 auger holes drilled on the Scottie Gold tailings pile. All four holes show higher grades at >1.5 m depth relative to <1.5 m.



## 8.5 Core Preservation and Reclamation

Core preservation and reclamation work done in 2018 included reboxing of historical drill core, reframing and sealing of adits, and tidying up of historical infrastructure sites on the Property.

A total of 33 drill holes for 3950.8 m were reboxed as part of the 2018 program (Table 9), with core moved into 565 new boxes. Thirty-three boxes could not be located and 14% of the boxes that were found were described as “incomplete”, typically missing segments of core ranging from 30-150 cm in length.

Adits referred to as portals A, C1, C2 and D were cleaned out, reframed with lumber and then screened off with wire fencing (Figure 13) to restrict unauthorized access.

Historical infrastructure areas on the property include the original camp site near portal A, a laydown and core storage area near portal D (and also the location of the 2018 camp), and the mine access portals for the 2800, 2900, 3000- and 3600-foot levels. Scrap lumber, metal and other garbage was collected from all of these locations and either burned or disposed of at appropriate recycling facilities.

**Table 9: List of drill core reboxed as part of the 2018 work program**

Drill ID	Length (m)	Boxes Total	Boxes Missing	Boxes Incomplete	Location
705	61.3	9	0	1	Landing between D and 2900 ft portals
706	106.4	16	1	2	Landing between D and 2900 ft portals
707	69.5	10	0	1	Landing between D and 2900 ft portals
708	75.9	12	1	0	Landing between D and 2900 ft portals
709	100.0	15	0	2	Landing between D and 2900 ft portals
710	104.9	15	0	0	Landing between D and 2900 ft portals
711	75.9	11	1	2	Landing between D and 2900 ft portals
712	93.9	14	5	2	Landing between D and 2900 ft portals
713	76.2	12	3	0	Landing between D and 2900 ft portals
714	74.7	12	3	0	Landing between D and 2900 ft portals
718	117.4	18	0	0	Landing between D and 2900 ft portals
720	111.0	16	0	1	Landing between D and 2900 ft portals
723	115.2	20	0	3	Landing between D and 2900 ft portals
724	144.2	23	2	5	Landing between D and 2900 ft portals
725	111.0	16	3	1	Landing between D and 2900 ft portals
726	109.7	16	0	0	Landing between D and 2900 ft portals
728	103.6	15	0	1	Landing between D and 2900 ft portals
729	51.8	8	0	0	Landing between D and 2900 ft portals
730	88.4	13	2	5	Landing between D and 2900 ft portals
731	103.6	15	1	2	Landing between D and 2900 ft portals
732	115.8	17	0	1	Landing between D and 2900 ft portals
733	121.9	17	1	0	Landing between D and 2900 ft portals
734	94.2	15	0	2	Landing between D and 2900 ft portals
735	112.5	26	1	1	Landing between D and 2900 ft portals
739	74.4	11	0	3	Landing between D and 2900 ft portals
745	167.3	26	0	8	Landing between D and 2900 ft portals
748	240.8	36	1	12	Landing between D and 2900 ft portals
750	178.6	25	0	4	Landing between D and 2900 ft portals
752	165.8	25	1	3	Landing between D and 2900 ft portals
757	202.4	30	4	4	Landing between D and 2900 ft portals
758	123.1	18	2	2	Landing between D and 2900 ft portals
761	221.0	32	0	6	Landing between D and 2900 ft portals
762	238.7	34	1	4	Landing between D and 2900 ft portals
<b>Totals</b>	<b>3950.8</b>	<b>598</b>	<b>33</b>	<b>78</b>	



Figure 13: Photos showing reclamation work at portal D that includes (a) cleaning out of rock rubble and (b) reframing the adit and screening it off with wire.

## 9.0 SUMMARY AND RECOMMENDATIONS

The 2018 work program included (1) prospecting the ~2 km long access tunnel leading from the historical camp location to the 3000' level, (2) relogging and resampling of historical drill core, (3) sampling and re-assay of historical coarse rejects, (4) auger sampling on the tailings mound outside of C portal, and (5) core preservation and reclamation. Key results from each of these programs are summarized below, followed by recommendations for future work.

### 9.1 Summary

Prospecting of the access tunnel from the 0.5 to 1.7 km mark defined two new vein zones (CPS, DP) and identified what appears to be either the C or D zone. The CPS zone is developed over 245 m of tunnel length, from 1.04 to 1.29 km, and includes eight sulphide-calcite shear vein and sulphide-bearing andesite samples that together average 0.3 g/t Au, 14 g/t Ag, 0.2% Cu and 0.1% Zn. This interval is centered ~500 m south of the historical C and D zones and ~1400 m northeast of the mine, in an area previously unknown as hosting mineralized veins. Orientations are, on average, east-west striking and either steeply north or south dipping but include NE-SW and NW-SE trending veins.

The highest-grade sample returned from the 2018 tunnel prospecting sample (8.1 g/t Au) was collected from the end of the traverse at tunnel length 1690 m and is here referred to as the “D portal (DP) zone”.

Relogging of historical drill core found that recording intervals of “Summit Lake Zone” (SLZN) – most often defined by increased pyrite-pyrrhotite, chlorite-sericite alteration and calcite ± sulphide veining – expands the footprint of prospective rocks approximately 4-5 times relative to just logging the shear veins. It is possible

that SLZN structures that lack significant shear veins may change to vein-hosting structures along strike or in the up- or down-dip directions.

Correlation of historical and 2018 gold and silver assays is acceptable for both the drill core re-sampling and reanalysis of coarse rejects, with correlation of  $R^2 = 0.9$ . In both cases, 2018 Au assays are higher than the historical ones. Reanalysis of coarse rejects, for example, returned an average grade of 44.9 g/t Au and 7.0 g/t Ag in comparison to 39.0 g/t Au and 6.7 g/t Ag in the historical assays.

Multi-element analysis of tunnel, drill core and coarse reject samples suggests that gold behaves more-or-less independently from other elements, although with some evidence for correlation with As (tunnel samples), Cu, Fe, P and V (coarse rejects). Silver, on the other hand, shows reasonable correlation with Pb and Zn in addition to Cd, Hg, Sb and Se.

The 2018 tailing sampling program shows that tailing grades increase downwards and towards what was most likely the outlet, with an average  $\sim 2$  g/t Au obtained from 74 samples collected from 14 auger holes and depths of 0-3 m below the surface. Results also show that material occurring within 1.5 m of the surface average 1.7 g/t whereas the deeper material, below 1.5 m depth, runs 2.6 g/t Au.

## 9.2 Recommendations

Additional tunnel-based prospecting should be done on the newly discovered CPS and DP zones, with infill sampling on the CPS and southward-directed sampling on the DP zone to test if it extends in that direction. Data collected from near the historical C and D zones should be integrated with historical drilling done in that area. Detailed geological mapping of the tunnel could be attempted but will require strong underground lighting and a means of washing down the tunnel walls.

An attempt should be made to salvage the 300- and 400-series of holes located within the mine workings, and to try and find the 500- and 600-series of drill holes. If this can be done, additional relogging is recommended following the lithological codes used in 2018 with the addition of a "shear vein" lithological code, which will facilitate sectional interpretation and, eventually, 3D modelling.

Resampling of drill core should be expanded to refine the correlation of modern and historical assays and evaluate the trend that 2018 gold and silver assays are generally higher than the historical ones. The program should focus on the reanalysis of both core samples and coarse rejects, although core resampling should honour historical sample intervals to facilitate comparison between the two assay generations.

Additional sampling of tailings should be done at depths  $>3$  m, especially within the high-grade core part of the tailings pile. These tailings are likely amenable to a resource estimation, as both the grades and sample material are consistent, but this would require that each hole be extended through to the base of the tailings pile. It is unclear if this could be done by hand auger and may instead require some sort of mobile drill unit.

Respectfully submitted,

*Signed and sealed "Ron Voordouw"*

*Signed and sealed "Ian Carr"*

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Ron Voordouw

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Ian Carr

EQUITY EXPLORATION CONSULTANTS LTD.

Vancouver, British Columbia

28 November 2019

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**Appendix B: Claim Data**

**Table B-1: Tenure details for the Scottie Gold property**

Type	Record ID*	Name	Owner	Issue Date	Good To Date	Area (ha)
Mineral Claim	338685	SUM #1	SCOTTIE RESOURCES CORP	4-Aug-95	24-Jan-25	101.2
Mineral Claim	250851	SCOT #4	SCOTTIE RESOURCES CORP	13-Feb-80	24-Jan-25	8.6
Mineral Claim	251148	BOW 1	SCOTTIE RESOURCES CORP	25-Jan-84	24-Jan-25	358.8
Crown Grant	6296	SUMMIT LAKE NO. 1 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	15.7
Crown Grant	6297	SUMMIT LAKE NO. 2 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	15.7
Crown Grant	6298	SUMMIT LAKE NO. 3 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	4.9
Crown Grant	6299	SUMMIT LAKE NO. 4 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	7.5
Crown Grant	6300	SUMMIT LAKE NO. 5 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	19.7
Crown Grant	6301	SUMMIT LAKE NO. 6 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	20.1
Crown Grant	6405	SUMMIT LAKE NO. 5 FRACTION MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	7.8
Crown Grant	6406	SUMMIT LAKE NO. 8 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	20.6
Crown Grant	6407	PRINCE NO. 1 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	18.7
Crown Grant	6408	PRINCE NO. 2 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	16.6
Crown Grant	6409	PRINCE NO. 4 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	20.9
Crown Grant	6410	PRINCE NO. 5 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	20.9
Crown Grant	6411	PRINCE NO. 6 MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	17.1
Crown Grant	6412	PRINCE FRACTION MC	SCOTTIE RESOURCES CORP	20-Dec-56	1-Jul-19	6.9
<b>Total</b>	<b>16</b>					<b>681.5</b>

**Appendix C: Statement of Expenditures**

**Table C-1: Expenditure statement for 2018 work on the Scottie Gold Property**

	Units No	Unit Type	Rate (C\$)	Cost (C\$)	Sub-Total
<b>Wages</b>					
Project Geologist	25.75	days	\$750	\$19,312.50	
Geologist	1.75	days	\$600	\$1,050.00	
Assistant Geologist	5.5	days	\$450	\$2,475.00	
Labourer	15	days	\$250	\$3,750.00	
Equipment operator, camp builder	18	days	\$450	\$8,100.00	
Camp manager	21.15	days	\$400	\$8,460.00	
Clerical	5	hours	\$35	\$175.00	
GIS	21	hours	\$75	\$1,575.00	
					\$44,897.50
<b>Rental Equipment</b>					
Field Camp	21.15	days	\$125	\$2,643.75	
Field Computer	8.5	days	\$20	\$170.00	
Generator	21.15	days	\$30	\$634.50	
Satellite Phone (plus minutes)	5	days	\$10.94	\$54.72	
Truck 1 (Northwest Truck Rentals)	5	days	\$111.39	\$556.96	
Truck 2 (YMI)	21.15	days	\$105.00	\$2,220.75	
Quad	21.15	days	\$65.00	\$1,374.75	
Skid steer	21.15	days	\$65.00	\$1,374.75	
					\$9,030.18
<b>Analyses</b>					
4-acid Rock Analyses ALS	39	samples	\$42.50	\$1,657.45	
Aqua Regia Tailing Analyses ALS	74	samples	\$33.61	\$2,486.89	
					\$4,144.34
<b>Sub-Project Sub-Totals</b>					
<b>Materials and Expenses</b>					
Accommodation				\$181.67	
Airfare				\$1,847.55	
Camp Construction (HA Butler Contracting Ltd)				\$4,342.94	
Camp Food				\$3,513.56	
Courier				\$2.84	
Expediting				\$19.27	
Freight				\$2,684.38	
Fuel				\$460.44	
Lumber				\$6,072.07	
Materials and Supplies				\$790.66	
Taxis and Airporters				\$75.96	
Travel meals				\$90.96	
					\$20,082.30
<b>Project Supervision</b>					
Project Supervision Charge				\$3,782.99	
					\$3,782.99
<b>Grand Total</b>					
					\$81,937.31

## **Appendix D: Rock Sample Descriptions**

### **MINERALS AND ALTERATION TYPES**

CA	calcite	PO	pyrrhotite
CL	chlorite	PY	pyrite
CP	chalcopyrite	QZ	quartz
HM	haematite	SX	sulphide
MC	malachite		

### **ALTERATION INTENSITY**

w	weak	s	strong
m	moderate	i	intense

### **OTHER ABBREVIATIONS**

Altn	alteration	Lith	lithology
Foln	foliation		

**Table D-1: Descriptive data for grab samples collected from the access tunnel on the Scottie Gold Property**

Sample ID	From (m)	To (m)	Easting*	Northing*	Structure Type	Struct Strike	Struct Dip	Sample Material	Host Rock	Alteration	Metallics
2615951	519.0	519.1	433158	6232493	Vein	232	76	Vein	CA-dominant shear vein	s CL	1% PY
2615952	531.0	532.4	433158	6232480	Vein	315	65	Lith + Vein	Andesite + CA-dominant shear veins	s CL	PY
2615953	543.8	544.4	433158	6232468	Vein	230	55	Vein	CA-dominant shear vein		0.1% PY
2615954	543.8	544.4	433158	6232468	Vein	230	55	Lith + Altn	Andesite	m CA	0.1% PY
2615955	563.9	564.3	433158	6232448	Vein	240	75	Vein	CA-dominant shear vein		1% PY
2615956	563.9	564.8	433158	6232448	Vein	245	75	Vein	CA breccia + clean CA vein		
2615957	586.4	586.7	433158	6232426	Vein	240	80	Vein	CA-dominant shear vein		0.5% PY, 0.1% CP
2615958	595.5	595.6	433158	6232416				Lith + Vein	Andesite with CA extension vein		0.5% PY
2615959	617.0	617.1	433159	6232395				Vein	CA-dominant shear vein		PY
2615960	647.4	647.5	433159	6232365	Shearing	270	85	Lithology	Andesite		2% PY
2615961	647.4	647.5	433159	6232365	Vein	270	85	Vein	QZ -dominant shear vein		PY
2615962	647.3	647.4	433158	6232365	Vein	270	85	Vein	CA-dominant shear vein		0.5% MC
2615963	680.4	680.5	433158	6232332	Vein	270	85	Vein	CA-dominant shear vein		
2615964	718.9	719.0	433158	6232293	Vein	235	70	Vein	CA-dominant shear vein		3% PY, 3% PO, 0.1% CP
2615965	768.0	768.3	433158	6232244	Vein+Foln	235	90	Vein	CA-dominant shear vein		2% PY
2615966	784.0	784.1	433158	6232228	Vein+Foln	235	90	Vein	CA-dominant shear vein		2% PY
2615967	792.0	792.4	433158	6232220	Vein+Foln	235	90	Lith + Vein	Andesite + CA-dominant shear veins		1% PY
2615968	811.5	812.2	433158	6232200	Vein	245	30	Vein	CA-dominant shear vein	s CL	
2615969	833.4	833.6	433157	6232179	Vein+Foln	260	60	Alteration	CA-flooded andesite	s CL, s CA	2% CP, 1% PO
2615970	828.3	828.6	433157	6232184	Vein+Foln	260	60	Vein	CA-dominant shear vein	i CL	0.5% PY
2615971	912.5	912.7	433154	6232101	Vein+Foln	290	70	Lith + Vein	Andesite + CA-dominant shear veins	m CL	2% PO, 0.1% PY
2615972	962.0	962.2	433126	6232060	Vein	145	65	Vein	CA-dominant shear vein		0.5% PY
2615973	995.5	995.9	433108	6232032	Vein	145	80	Vein	CA-dominant shear vein		
2615974	995.5	995.9	433108	6232032	Vein+Foln	145	80	Lith + Vein	Andesite + CA-dominant shear veins	i CA	3% PO, 2% PY
2615975	1034.5	1034.7	433087	6231999	Vein	140	80	Vein	CA-dominant shear vein		
2615976	1042.0	1042.2	433082	6231993	Vein	285	65	Vein	CA-dominant shear vein	s CL	3% PY, 3% PO
2615977	1094.0	1096.7	433053	6231949	Vein	300	55	Vein	CA-dominant shear vein		1% PY, 1% HM
2615978	1123.0	1123.1	433037	6231926	Vein	245	70	Lith + Vein	Andesite + CA-dominant shear veins	s CL, s CA	10% PO, 2% PY
2615979	1171.8	1172.1	433011	6231884	Vein	255	75	Lith + Vein	Andesite + CA-dominant shear veins	m CL, s CA	0.1% PY
2615980	1171.6	1171.8	433011	6231884	Vein	255	75	Vein	SX-CA shear vein		20% PO, 5% CP, 5% PY
2615981	1211.7	1211.9	432988	6231850	Vein	220	80	Vein	SX-CA shear vein	s CL	15% PO, 5% PY
2615982	1223.2	1223.3	432982	6231842	Shearing	115	60	Lithology	Andesite; sheared	s CL, s CA	
2615983	1271.8	1271.9	432964	6231797	Vein	230	80	Vein	SX-CA shear vein	s CA	80% PO, 5% CP
2615984	1280.6	1281.4	432960	6231789	Vein	230	80	Vein	CA-dominant shear vein	s CL, s CA	3% PO, 1% CP, 1% PY
2615985	1334.1	1334.2	432942	6231740	Vein	338	62	Vein	CA-dominant shear vein		
2615986	1334.2	1334.3	432942	6231740	Vein+Foln	338	62	Lithology	Andesite; proximal to vein		
2615987	1396.2	1396.4	432919	6231682	Vein	256	69	Vein	CA-dominant shear vein		
2615988	1415.7	1415.9	432912	6231663	Vein	256	69	Vein	CA-dominant shear vein		



Sample ID	From (m)	To (m)	Easting*	Northing*	Structure Type	Struct Strike	Struct Dip	Sample Material	Host Rock	Alteration	Metallics
2615989	1453.7	1453.9	432899	6231628				Vein	CA-dominant shear vein		
2615990	1508.0	1508.4	432879	6231577	Vein	154	76	Vein	CA-dominant shear vein		
2615991	1551.5	1552.1	432863	6231536	Vein	71	59	Vein	CA-dominant shear vein		
2615992	1610.3	1610.5	432842	6231482	Vein	60	80	Alteration	CA-dominant shear zone		
2615993	85.1**	85.2**	433244	6232097				Lith+Altn	Andesite with PY + PO on fracture planes		PY, PO
2615994	1654.0	1654.1	432826	6231442				Vein	CA-dominant shear vein		
2615995	1690.0	1690.1	432808	6231411				Vein	SX-CA shear vein		

\*Easting and Northing are in NAD83 Zone 9; \*\* tunnel depths are for C portal branch off the main tunnel

**Appendix E: Rock Sample COAs**



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 Plus Appendix Pages  
 Finalized Date: 7-OCT-2018  
 Account: EIA

**CERTIFICATE VA18239316**

Project: Scottie Gold  
 P.O. No.: ROT18-02  
 This report is for 45 Rock samples submitted to our lab in Terrace, BC, Canada on 5-SEP-2018.  
 The following have access to data associated with this certificate:  
 BRAD ROURKE                      RON VOORDOUW

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Aq-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	
Hg-MS42	Trace Hg by ICPMS	ICP-MS

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239316**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2615951		2.10	0.29	3.20	8.8	270	0.43	0.11	11.45	5.38	5.15	3.5	19	5.52	18.8	2.47
2615952		1.58	0.45	7.25	8.9	2130	0.92	0.33	3.48	0.57	15.25	15.2	37	1.02	124.5	6.07
2615953		1.76	1.23	2.70	1430	90	0.25	0.36	18.05	31.0	11.55	6.1	8	1.07	43.7	6.33
2615954		1.34	0.57	7.52	17.5	3220	0.71	0.52	4.08	0.43	17.35	22.4	37	2.24	131.5	5.69
2615955		1.96	17.60	1.99	307	170	0.52	7.63	12.50	168.5	11.65	27.6	6	1.57	1200	5.65
2615956		2.54	0.13	0.86	79.1	260	0.36	0.05	23.9	0.27	5.49	2.2	3	0.22	14.9	3.77
2615957		2.16	>100	1.26	3190	50	0.20	1.37	11.55	>1000	5.91	24.4	4	0.32	4540	4.77
2615958		1.84	1.34	7.04	10.4	1410	0.43	0.68	6.38	2.15	13.75	48.2	53	0.71	219	12.00
2615959		1.42	30.1	0.86	4.6	30	1.01	0.91	26.7	181.5	11.95	6.7	6	0.24	121.5	1.83
2615960		2.16	1.77	7.11	30.6	1180	0.64	0.49	3.72	1.25	21.4	28.1	76	2.69	169.0	9.63
2615961		2.46	0.33	0.15	217	20	0.11	0.04	35.6	5.06	19.15	1.1	1	0.08	12.3	1.09
2615962		0.92	57.6	1.47	28.2	110	0.34	0.41	27.9	304	18.35	10.3	9	1.26	541	3.29
2615963		1.04	1.00	1.27	67.5	100	0.18	0.09	18.85	0.94	5.09	3.3	19	0.90	16.7	1.88
2615964		2.02	63.1	2.69	254	170	0.17	1.63	16.00	34.2	14.30	52.0	9	1.74	7300	6.62
2615965		1.82	0.69	1.71	18.4	70	0.22	0.41	23.4	1.23	17.10	3.8	3	1.01	77.3	3.41
2615966		1.52	25.0	3.74	14.7	120	0.17	10.90	4.29	231	4.03	16.9	10	0.88	2240	9.58
2615967		1.38	2.07	6.30	14.8	710	0.71	0.85	10.35	3.24	15.35	25.6	13	5.73	349	7.77
2615968		1.88	0.18	3.37	2.5	420	0.22	0.23	4.84	7.83	4.98	4.9	14	0.96	27.2	5.32
2615969		1.22	24.0	5.75	14.8	130	0.45	0.36	3.48	5.90	5.63	14.6	64	3.35	3950	8.43
2615970		2.00	11.00	2.12	105.0	40	0.25	1.79	14.60	9.27	34.4	30.7	13	0.82	1285	6.12
2615971		2.00	0.55	7.39	10.4	760	0.80	0.30	6.56	3.53	16.55	17.9	12	11.05	71.3	5.12
2615972		1.12	0.36	7.39	21.0	950	0.71	0.54	7.30	0.31	10.75	32.9	25	2.94	148.5	7.00
2615973		1.68	0.29	2.91	364	120	0.35	0.36	15.45	0.38	8.70	13.3	11	0.90	114.0	2.93
2615974		2.10	1.35	6.89	182.0	540	0.75	1.52	6.08	3.57	23.3	39.8	25	5.58	239	6.97
2615975		1.24	0.12	2.91	610	290	0.33	0.30	17.95	0.10	10.95	15.4	11	1.03	18.2	3.66
2615976		2.74	8.22	3.02	61.1	250	0.39	1.19	13.55	3.55	3.40	197.0	7	3.49	2430	15.95
2615977		1.52	6.30	2.78	50.8	20	0.23	2.03	13.35	4.30	15.65	72.8	8	0.61	2070	9.54
2615978		3.08	1.12	6.96	11.0	20	0.24	2.05	7.73	2.46	3.52	74.9	7	1.30	300	15.40
2615979		2.22	0.71	3.20	14.3	150	0.40	0.33	13.85	0.62	13.60	9.5	18	4.57	81.2	3.59
2615980		1.52	50.2	1.50	27.8	30	0.13	31.5	5.39	126.0	2.61	294	4	0.91	9900	38.6
2615981		2.02	1.85	3.14	39.9	20	0.39	3.20	15.35	3.70	3.73	53.3	4	0.72	495	12.40
2615982		1.48	8.96	3.18	407	60	0.37	2.28	16.30	9.77	37.4	45.8	12	1.59	1100	13.10
2615983		3.04	24.4	0.77	137.0	20	0.12	13.80	4.66	0.73	11.15	240	6	1.15	2380	35.3
2615984		2.66	39.2	2.36	54.6	90	0.23	20.3	14.25	17.65	10.55	76.2	8	1.51	4840	12.05
2615985		3.10	0.39	4.82	11.6	930	0.31	0.58	19.05	0.17	16.20	15.5	23	0.89	55.6	5.44
2615986		5.86	0.62	7.51	20.5	1240	0.78	0.62	9.76	0.74	10.55	23.6	18	1.08	108.5	8.49
2615987		1.66	0.22	5.57	6.6	1200	0.56	0.22	11.90	0.41	17.55	14.3	28	2.66	22.6	5.18
2615988		3.32	0.48	4.17	16.2	1100	0.51	0.79	13.90	0.42	10.25	19.4	27	6.72	85.0	4.67
2615989		3.88	0.37	4.57	8.7	810	0.41	0.39	13.30	0.67	10.85	29.7	30	1.71	92.3	6.33
2615990		4.06	0.33	4.67	319	240	0.46	0.20	10.65	0.13	11.75	35.9	128	2.71	43.5	5.45



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 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239316**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
2615951		6.52	0.06	0.7	0.031	0.033	1.32	2.6	24.2	0.86	1570	0.36	0.02	2.1	4.3	710
2615952		11.05	0.10	0.8	<0.005	0.098	3.44	7.7	24.9	1.96	832	0.51	2.19	4.5	8.8	1500
2615953		7.21	0.05	0.2	0.090	0.094	0.33	6.8	41.1	1.31	6570	0.19	0.01	0.9	1.1	270
2615954		12.25	0.12	0.8	0.006	0.092	5.07	8.9	28.5	1.38	949	1.02	1.83	4.9	10.4	1610
2615955		4.63	0.07	0.2	0.568	1.090	0.49	6.4	31.6	0.74	2820	1.63	0.02	0.5	10.7	520
2615956		1.72	<0.05	0.1	0.005	0.009	0.21	3.0	8.7	5.96	2060	0.07	0.27	0.5	1.0	150
2615957		3.48	0.17	0.1	3.11	0.731	0.13	3.7	18.6	0.66	4150	0.55	0.01	0.3	2.0	120
2615958		15.35	0.08	0.6	0.008	0.085	2.48	6.3	38.4	3.74	1320	0.79	1.27	3.6	38.7	1200
2615959		3.23	0.05	0.1	0.477	0.118	0.08	6.7	6.4	0.35	5180	0.21	0.01	0.3	1.4	140
2615960		14.20	0.09	0.8	0.008	0.111	2.79	11.6	49.7	2.94	1930	0.76	0.77	5.1	17.5	1840
2615961		0.77	0.05	<0.1	0.031	0.031	0.01	11.3	2.3	0.14	11050	0.16	0.01	<0.1	0.2	20
2615962		3.60	0.06	0.2	0.961	0.136	0.37	11.5	16.9	0.83	7720	0.31	0.01	0.9	4.7	320
2615963		2.79	<0.05	0.2	<0.005	0.027	0.33	2.8	15.4	0.66	2310	0.66	0.01	0.8	3.7	260
2615964		6.58	0.05	0.2	0.225	1.365	0.53	8.8	30.8	1.12	4100	1.26	0.01	0.7	22.8	420
2615965		4.34	0.05	0.2	0.010	0.045	0.28	9.9	21.7	1.04	7160	0.21	0.01	0.9	2.2	380
2615966		8.14	0.07	0.5	0.850	2.31	0.23	2.2	49.3	1.55	3240	0.31	0.02	1.9	3.0	660
2615967		13.75	0.07	0.6	0.029	0.107	2.57	9.5	43.7	2.42	1920	0.67	0.08	3.8	8.7	1320
2615968		9.40	<0.05	0.2	0.019	0.076	0.68	3.4	37.8	1.82	1260	0.85	0.04	1.4	2.6	480
2615969		16.45	0.05	0.9	0.023	0.713	0.58	3.2	79.4	3.79	1650	0.43	0.09	4.5	4.7	1530
2615970		7.28	0.06	0.2	0.040	0.194	0.11	21.8	19.3	1.23	4080	2.26	0.06	1.0	8.6	390
2615971		13.25	0.08	1.1	0.011	0.067	2.74	9.3	56.6	2.14	2050	0.20	0.03	4.2	7.0	1400
2615972		17.20	0.07	1.0	0.005	0.066	1.40	3.8	64.5	2.93	681	2.74	1.74	4.0	8.5	1530
2615973		6.59	<0.05	0.4	<0.005	0.050	0.26	3.9	37.7	1.52	705	1.23	0.80	1.7	4.3	620
2615974		14.00	0.08	0.7	<0.005	0.116	1.07	13.5	47.9	2.52	1300	89.7	1.83	4.9	13.7	1320
2615975		6.23	0.05	0.4	<0.005	0.082	0.37	4.9	50.5	1.78	977	0.54	0.59	1.7	4.4	590
2615976		11.55	0.06	0.1	0.011	0.259	0.72	2.2	25.3	1.22	539	0.60	0.05	0.5	29.8	680
2615977		8.94	0.05	0.2	0.007	0.258	0.06	10.0	22.1	1.30	931	0.69	0.01	0.8	17.6	610
2615978		22.2	0.05	0.1	0.013	0.151	0.08	1.8	39.2	2.90	1070	0.62	0.30	0.5	7.9	280
2615979		8.35	<0.05	0.4	0.008	0.069	0.75	7.6	21.7	1.11	1080	0.23	0.08	1.8	2.8	850
2615980		4.64	0.17	0.1	0.737	0.970	0.14	1.5	9.6	0.51	492	0.91	0.01	0.3	195.0	910
2615981		8.75	<0.05	0.1	0.023	0.129	0.05	2.2	12.6	0.80	1220	0.20	0.01	0.8	12.2	380
2615982		8.77	0.08	0.2	0.050	0.262	0.19	26.4	45.7	2.43	3380	1.16	0.01	1.1	31.4	1440
2615983		4.46	0.23	0.1	0.144	0.058	0.08	6.1	10.6	0.30	779	0.70	0.02	0.6	112.5	160
2615984		6.53	0.08	0.1	0.082	0.752	0.23	6.0	28.3	1.16	1800	0.51	0.01	1.2	5.3	280
2615985		12.45	0.06	0.6	0.005	0.106	1.65	8.3	19.0	1.29	1080	0.29	0.54	2.3	9.4	1010
2615986		20.9	0.07	1.1	<0.005	0.205	2.72	4.8	20.9	2.34	1320	0.28	0.49	3.2	16.2	1500
2615987		10.45	0.08	0.8	<0.005	0.057	1.78	8.2	29.7	1.80	1260	0.32	1.44	2.7	8.3	1160
2615988		7.34	0.07	0.5	0.005	0.058	3.16	4.7	18.6	0.91	1340	1.96	0.08	2.2	8.3	880
2615989		10.35	0.06	0.6	<0.005	0.097	1.59	5.3	19.4	1.74	1060	1.02	0.74	2.3	9.4	960
2615990		9.98	0.05	0.4	<0.005	0.091	1.16	5.9	44.7	2.54	1760	1.13	0.02	2.9	25.6	1170





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**CERTIFICATE OF ANALYSIS VA18239316**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
2615951		13.3	52.9	<0.002	0.52	3.16	12.0	<1	1.3	115.0	0.12	<0.05	0.72	0.161	0.40	0.3
2615952		5.6	59.0	<0.002	1.44	4.20	27.5	<1	2.0	359	0.26	<0.05	1.59	0.337	0.76	0.6
2615953		80.2	12.9	<0.002	1.85	14.40	8.1	2	1.8	300	0.06	0.07	0.20	0.070	0.22	0.3
2615954		5.9	76.8	0.002	1.18	2.84	27.2	1	1.6	346	0.29	<0.05	1.37	0.355	1.14	0.6
2615955		1270	17.9	<0.002	3.24	15.40	5.9	5	2.1	186.0	<0.05	0.20	0.09	0.038	0.45	0.1
2615956		5.0	4.0	<0.002	0.09	1.19	3.6	<1	0.3	1840	<0.05	<0.05	0.20	0.036	0.07	0.1
2615957		>10000	4.6	0.003	7.22	274	3.0	72	2.6	175.0	<0.05	0.61	0.13	0.022	0.24	0.1
2615958		139.5	45.2	<0.002	2.54	4.79	29.5	1	1.5	535	0.19	<0.05	1.24	0.305	0.61	0.5
2615959		7060	3.2	<0.002	1.51	31.9	5.2	5	2.3	774	<0.05	<0.05	0.13	0.030	0.10	0.1
2615960		59.6	56.6	0.003	2.32	8.79	40.1	1	3.6	172.5	0.28	<0.05	1.36	0.436	1.03	0.7
2615961		20.7	0.4	<0.002	0.87	4.07	2.3	1	<0.2	704	<0.05	<0.05	0.03	<0.005	0.05	<0.1
2615962		>10000	15.0	<0.002	3.04	60.7	8.0	10	2.9	515	0.05	0.06	0.29	0.080	0.34	0.2
2615963		35.1	14.2	<0.002	0.21	3.93	6.0	<1	0.4	656	<0.05	<0.05	0.28	0.066	0.16	0.1
2615964		143.5	21.8	0.002	3.29	16.55	7.7	2	5.5	409	<0.05	0.40	0.22	0.068	0.43	0.2
2615965		35.4	11.2	<0.002	1.23	3.33	6.2	1	1.6	400	0.05	<0.05	0.23	0.073	0.12	0.1
2615966		3530	7.7	<0.002	2.81	9.44	13.2	14	1.3	64.6	0.10	0.16	0.54	0.159	0.15	0.3
2615967		53.8	77.4	0.002	3.34	8.40	23.9	1	6.4	178.5	0.20	0.06	0.96	0.331	1.30	0.5
2615968		9.0	17.2	<0.002	0.44	2.57	9.7	<1	4.4	214	0.07	<0.05	0.33	0.109	0.21	0.3
2615969		30.0	26.1	<0.002	0.99	4.72	28.7	1	13.2	91.8	0.23	0.10	0.77	0.392	0.30	0.9
2615970		181.5	4.2	0.002	3.62	10.20	10.2	3	4.6	367	0.05	0.17	0.32	0.083	0.14	0.2
2615971		30.5	109.5	<0.002	0.50	4.33	23.4	<1	6.0	109.5	0.23	<0.05	1.31	0.393	1.43	0.5
2615972		18.5	34.6	<0.002	1.89	8.69	33.0	<1	3.0	643	0.22	<0.05	1.36	0.395	0.38	0.6
2615973		8.0	8.2	0.003	0.25	7.57	14.7	1	2.1	717	0.09	0.23	0.61	0.172	0.07	0.3
2615974		108.5	36.0	0.124	1.78	4.11	26.8	2	3.1	358	0.29	0.29	2.08	0.346	0.38	1.0
2615975		3.7	7.8	<0.002	0.44	7.68	14.0	1	0.9	1520	0.09	0.10	0.54	0.155	0.08	0.3
2615976		11.3	26.0	0.007	9.95	5.09	14.7	2	3.2	243	<0.05	0.28	0.12	0.048	0.36	0.1
2615977		18.9	2.3	0.003	5.59	7.19	10.3	4	5.2	522	<0.05	0.34	0.37	0.074	0.10	0.2
2615978		12.7	2.0	0.003	6.06	9.17	18.3	4	13.1	484	<0.05	0.14	0.16	0.098	0.34	0.2
2615979		5.0	33.1	<0.002	0.97	3.38	13.1	1	5.9	175.5	0.09	<0.05	0.59	0.177	0.37	0.4
2615980		516	5.7	0.013	>10.0	2.74	6.0	35	3.7	240	<0.05	2.01	0.10	0.029	0.13	0.1
2615981		10.7	2.0	<0.002	5.17	5.08	3.9	5	3.6	756	<0.05	0.15	0.17	0.063	0.09	0.2
2615982		23.8	8.6	0.002	5.10	6.04	19.9	10	2.9	226	0.06	0.25	0.57	0.112	0.19	0.3
2615983		131.5	3.7	0.006	>10.0	109.5	5.4	53	0.7	87.8	<0.05	0.62	0.53	0.040	5.96	0.1
2615984		322	9.6	0.002	5.48	5.39	7.3	11	2.7	207	0.07	0.50	0.36	0.092	0.29	0.2
2615985		4.7	33.9	<0.002	1.55	6.79	24.8	1	1.7	663	0.12	<0.05	0.67	0.299	0.39	0.4
2615986		6.8	59.9	<0.002	2.01	30.7	30.9	1	2.5	896	0.17	<0.05	1.04	0.412	0.52	0.5
2615987		4.7	39.8	<0.002	1.06	2.55	30.1	1	0.7	369	0.15	<0.05	0.82	0.358	0.48	0.4
2615988		5.4	74.1	<0.002	1.22	4.12	25.3	1	1.1	217	0.12	<0.05	0.53	0.296	0.72	0.3
2615989		5.6	35.9	<0.002	1.91	6.42	27.0	1	2.1	400	0.12	<0.05	0.60	0.311	0.57	0.3
2615990		4.8	46.5	0.002	0.24	3.92	34.4	<1	1.1	793	0.16	0.05	0.84	0.283	0.38	0.4



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Project: Scottie Gold

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Zn-OG62	Au-ICP21
		V	W	Y	Zn	Zr	Ag	Pb	Zn	Au
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		1	0.1	0.1	2	0.5	1	0.001	0.001	0.001
2615951		84	1.9	6.4	407	15.4				0.036
2615952		161	0.7	13.2	63	21.5				0.003
2615953		47	1.1	18.0	2380	7.4				0.096
2615954		191	1.8	15.3	55	22.3				0.004
2615955		34	1.4	15.9	>10000	2.5		1.145		0.060
2615956		25	0.2	8.7	23	3.2				0.001
2615957		22	0.6	5.4	>10000	3.1	236	5.90	9.36	0.457
2615958		246	1.0	12.5	234	19.1				0.002
2615959		40	0.5	15.4	>10000	2.2		1.245		0.039
2615960		283	3.0	16.0	151	21.2				0.003
2615961		5	0.1	17.5	370	<0.5				0.019
2615962		47	1.3	14.3	>10000	5.3		1.305	2.17	0.098
2615963		36	6.1	5.5	72	6.0				0.006
2615964		54	0.7	18.0	2340	5.8				0.047
2615965		49	0.8	17.8	97	8.7				0.023
2615966		95	1.5	6.1	>10000	12.5		1.825		0.026
2615967		185	1.9	13.6	259	17.1				0.020
2615968		96	0.7	6.5	402	8.3				0.002
2615969		218	2.9	12.1	453	28.8				0.021
2615970		88	0.6	13.0	401	6.7				0.038
2615971		192	2.6	16.3	237	41.1				0.005
2615972		260	1.1	16.4	57	44.2				0.005
2615973		114	0.7	12.2	46	11.1				0.065
2615974		207	2.0	15.7	276	23.1				0.077
2615975		104	0.6	18.0	25	13.5				0.032
2615976		132	0.5	4.2	119	3.3				0.018
2615977		144	0.5	11.2	170	6.1				0.051
2615978		245	0.5	6.5	135	4.6				0.024
2615979		134	1.4	15.4	67	10.5				0.008
2615980		44	430	4.0	8280	2.5				0.079
2615981		39	2.7	4.3	292	2.7				0.757
2615982		260	1.5	12.4	692	5.8				2.06
2615983		40	1.9	5.1	48	3.2				0.109
2615984		49	1.0	9.4	1250	7.9				0.184
2615985		186	1.1	14.5	38	16.9				0.011
2615986		255	1.4	17.8	64	39.1				0.056
2615987		221	1.7	18.4	69	25.4				0.004
2615988		183	3.5	14.0	53	15.2				0.015
2615989		204	1.8	13.9	66	19.2				0.008
2615990		216	6.4	13.1	44	8.9				0.037



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Project: Scottie Gold

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2615991		3.40	0.52	1.07	2320	80	0.20	0.10	5.05	0.25	7.40	2.4	13	1.19	9.4	2.82
2615992		2.58	0.22	3.43	457	1200	0.42	0.09	19.35	0.18	13.60	24.9	25	1.67	10.5	3.40
2615993		4.68	0.43	6.94	19.7	750	0.63	1.21	4.01	0.12	21.8	26.9	25	0.82	117.5	8.32
2615994		4.48	0.07	6.14	55.1	320	0.50	0.06	5.68	0.15	11.45	26.1	46	1.67	19.1	6.18
2615995		4.00	5.03	3.92	>10000	170	0.54	5.48	4.19	2.84	13.15	98.9	54	0.55	2520	12.00

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Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
					ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
					0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
2615991					2.29	<0.05	<0.1	<0.005	0.039	0.24	3.9	20.2	0.60	1560	1.24	0.01	0.1	4.5	60
2615992					5.46	0.06	0.5	0.006	0.027	1.75	6.2	10.2	0.66	1700	1.29	0.92	2.6	10.8	720
2615993					15.50	0.08	1.0	<0.005	0.142	2.46	11.3	23.4	2.59	894	4.10	2.47	6.0	10.4	2320
2615994					13.50	0.06	0.9	<0.005	0.029	0.99	5.2	33.5	2.44	1140	0.63	1.87	3.8	14.2	1200
2615995					13.20	0.08	0.5	0.042	0.184	0.31	7.0	15.6	0.66	443	14.90	0.15	2.2	73.3	640

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Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
					ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
					0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
2615991					7.9	10.3	<0.002	1.65	76.9	5.1	2	0.3	117.5	<0.05	<0.05	0.04	0.015	0.12	<0.1
2615992					9.4	44.1	0.003	1.59	3.29	17.0	1	0.4	703	0.15	<0.05	0.70	0.227	0.81	0.4
2615993					10.0	40.7	0.002	2.86	4.46	30.8	2	1.8	411	0.35	<0.05	1.91	0.436	0.48	0.9
2615994					2.2	38.1	<0.002	0.10	1.30	30.9	<1	0.4	243	0.23	<0.05	1.08	0.410	0.27	0.5
2615995					64.5	9.2	0.005	6.41	56.5	15.3	6	0.7	369	0.13	0.26	0.75	0.183	0.14	0.5

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP21 Au ppm 0.001
2615991		29	0.2	9.3	25	0.9				0.193
2615992		125	4.0	15.5	35	15.8				0.092
2615993		206	1.1	15.9	60	25.0				0.019
2615994		219	3.8	10.2	65	21.4				0.016
2615995		119	0.6	8.3	124	12.8				8.12



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 7-OCT-2018  
Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239316**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-ICP21	CRU-31	CRU-QC
Hg-MS42	LOG-21	ME-MS61	ME-OG62
Pb-OG62	PUL-31	PUL-QC	SPL-21
WEI-21	Zn-OG62		

**Appendix F: Re-log Program Drill Collars**



**Table F-1: Collar information for holes relogged as part of the 2019 program**

Hole	Length (m)	UTM Easting	UTM Northing	Elevation (m)	Azimuth	Dip
705	61.3	431848	6231094	918	166.3	-16.5
706	106.4	431847	6231095	918	209.0	-4.0
707	69.5	431829	6231173	911	220.5	-44.5
709	100.0	431829	6231173	911	238.5	-57.0
713	76.2	431864	6231147	919	246.0	-26.0
714	74.7	431864	6231148	918	255.5	-11.0
718	117.4	431857	6231090	918	216.3	-15.7
724	144.2	431850	6231165	917	221.7	-61.8
725	111.0	431899	6231083	894	194.6	-17.3
726	109.7	431900	6231083	894	177.4	-28.3
729	51.8	431821	6231156	909	221.6	-37.7
731	103.6	431829	6231173	914	226.8	-51.6
732	115.8	431829	6231174	914	230.4	-60.2
733	121.9	431836	6231172	912	224.3	-67.9
734	94.2	431852	6231162	917	226.2	-47.5
735	112.5	431852	6231162	914	210.8	-45.5
739	74.4	431853	6231018	920	162.9	-27.4
745	167.3	431856	6231263	918	265.7	-0.1
748	240.8	431856	6231263	918	284.7	0.0
750	178.1	431857	6231262	920	225.7	-32.0
752	165.8	431856	6231262	918	249.7	-19.0
757	202.4	431863	6231200	921	208.3	-56.0
758	123.1	431864	6231149	919	223.8	-55.4
762	238.7	431949	6231112	918	146.0	-5.1
SG-16-15	153.1	433099	6232219	922	9.0	-20.0

**Appendix G: Drill Logs**

This appendix contains all of the drill logs generated from the 2018 re-logging program on the Scottie Gold Property. Drill logs are presented in alpha-numeric order with the first page of each log starting on the page number indicated below in Table G-1.

**Table G-1: Table of contents for 2018 diamond drill hole logs in this appendix**

Hole Number	Length (m)	Target	Core Storage Location	Page Number
705	61.3	N Zone	Landing between D and 2900 ft portals	G-1
706	106.4	L Zone	Landing between D and 2900 ft portals	G-5
707	69.5	M Zone	Landing between D and 2900 ft portals	G-9
709	100.0	M Zone	Landing between D and 2900 ft portals	G-13
713	76.2	M Zone	Landing between D and 2900 ft portals	G-17
714	74.7	M Zone	Landing between D and 2900 ft portals	G-19
718	117.4	M Zone	Landing between D and 2900 ft portals	G-22
724	144.2	M Zone	Landing between D and 2900 ft portals	G-26
725	111.0	M Zone	Landing between D and 2900 ft portals	G-33
726	109.7	M Zone	Landing between D and 2900 ft portals	G-38
729	51.8	M Zone	Landing between D and 2900 ft portals	G-44
731	103.6	M Zone	Landing between D and 2900 ft portals	G-47
732	115.8	M Zone	Landing between D and 2900 ft portals	G-51
733	121.9	M Zone	Landing between D and 2900 ft portals	G-55
734	94.2	M Zone	Landing between D and 2900 ft portals	G-59
735	112.5	M Zone	Landing between D and 2900 ft portals	G-62
739	74.4	M Zone	Landing between D and 2900 ft portals	G-67
745	167.3	M Zone	Landing between D and 2900 ft portals	G-72
748	240.8	M Zone	Landing between D and 2900 ft portals	G-78
750	178.1	M Zone	Landing between D and 2900 ft portals	G-89
752	165.8	M Zone	Landing between D and 2900 ft portals	G-96
757	202.39	M Zone	Landing between D and 2900 ft portals	G-101
758	123.14	M Zone	Landing between D and 2900 ft portals	G-109
762	238.66	M Zone	Landing between D and 2900 ft portals	G-113
SG-16-15	153.05	C, D zones	Landing between D and 2900 ft portals	G-120

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **705**

Prospect:	N Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/19/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/19/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	6949.89	Stored?:	Yes	Claims Title:	Drill Started:
Local Northing:	3008.93	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	3010.87			Hole Completed?:	Purpose:
Comments:			Proposed ID:	Parent Hole:	

Hole primarily composed of SLSZ zones with variability in alteration. Historical assay showed a "high grade" zone from 50.9-51.1 m with a grade of 0.329 oz/t. This zone (interpreted to be the "N-Zone") was found and seems to be quite different than the previous SLSZ zone. Silica flooding throughout the interval, as well as, potassic alteration and decrease in sulfide %. A undefinable black mineral was present (massive in texture) associated with the veining. Would be interesting to look further into this vein with petrography.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>13.32</b>	<b>SLZN Summit Lake Zone</b>	10.03	10.52	0.49						
<p>0 - 13.32: Moderately altered SLSZ (chl-ser-cb alteration). Semi-massive to disseminated sulfides throughout the interval with py,po+-sph. Alteration intensity increases proximal to locally foliated areas.</p> <p>&lt;&lt;Min: 0 - 13.32 2% Sphalerite&gt;&gt;</p> <p>&lt;&lt;Min: 0 - 13.32 35% Pyrite&gt;&gt;</p> <p>&lt;&lt;Min: 0 - 13.32 5% Pyrrhotite&gt;&gt;</p> <p>&lt;&lt;Alt: 0 - 13.32 Weak (partial crystal replacement) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 0 - 13.32 Moderate (most crystals replaced, textural modification) Chlorite&gt;&gt;</p> <p>&lt;&lt;Alt: 0 - 13.32 Subtle (restricted to crystal margins, fractures) Carbonate&gt;&gt;</p> <p>&lt;&lt;Vein: 0 - 43.7 70% Composite sulphide + calcite (banded SX- and CC-dominant) 65 deg. &gt;&gt; angle can vary from 50-80</p> <p>&lt;&lt;Struc: 3.6 - 5.03 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p> <p>&lt;&lt;Struc: 10.03 - 10.33 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p> <p>&lt;&lt;Struc: 10.85 - 11.28 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p> <p>&lt;&lt;Struc: 12.01 - 12.34 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>13.32</b>	<b>13.62</b>	<b>MISS Missing Core</b>									

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
16.55	17.62	1.07						

**13.62 19.17 SLZN Summit Lake Zone**

13.62 - 19.17: Strongly altered SLSZ with semi-massive sulfides. Strong Sericitization and foliation. Extensional qtz vein overprint locally found.

<<Min: 13.62 - 19.17 30% Pyrite>>  
 <<Min: 13.62 - 19.17 5% Pyrrhotite>>  
 <<Alt: 13.62 - 19.17 Strong (complete replacement, some primary QZ and textures) Sericite>>  
 <<Alt: 13.62 - 19.17 Moderate (most crystals replaced, textural modification) Chlorite>>  
 <<Vein: 13.62 - 19.17 70% Composite sulphide + calcite (banded SX- and CC-dominant) 20 deg. >> veins can range from 0-40  
 <<Struc: 13.62 - 19.17 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>

**19.17 28.80 SLZN Summit Lake Zone**

19.17 - 28.8: Moderately altered SLSZ. Semi massive mineralization with sxcc veins locally are up to 4.5 cm. Locally foliated.

<<Min: 19.17 - 28.8 30% Pyrite>>  
 <<Min: 19.17 - 28.8 5% Pyrrhotite>>  
 <<Alt: 19.17 - 28.8 Weak (partial crystal replacement) Sericite>>  
 <<Alt: 19.17 - 28.8 Moderate (most crystals replaced, textural modification) Chlorite>>  
 <<Vein: 19.17 - 28.8 70% Composite sulphide + calcite (banded SX- and CC-dominant) 30 deg. >> can range from 20-50  
 <<Struc: 23.47 - 24.69 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>  
 <<Struc: 25.42 - 26.64 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>  
 <<Struc: 26.52 - 26.82 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>  
 <<Struc: 27.95 - 28.5 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>

**28.80 29.41 SLZN Summit Lake Zone**

28.8 - 29.41: Intensely altered and foliated (5) SLSZ with semi- to massive py.

28.80	29.41	0.61
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<<Min: 28.8 - 29.41 70% Pyrite>>  
 <<Alt: 28.8 - 29.41 Weak (partial crystal replacement) Sericite>>  
 <<Alt: 28.8 - 29.41 Intense (no primary minerals, textures mostly destroyed) Chlorite>>  
 <<Alt: 28.8 - 29.41 Moderate (most crystals replaced, textural modification) Carbonate>>  
 <<Vein: 28.8 - 29.41 60% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >>  
 <<Struc: 28.8 - 29.41 Intense (no primary minerals, textures mostly destroyed) Foliation (penetrative planar fabric)>>



## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**705**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>29.41</b>	<b>32.77</b>	<b>SLZN Summit Lake Zone</b>									
29.41 - 32.77: Moderately altered, locally foliated SLSZ.											
<<Min: 29.41 - 32.77 20% Pyrite>>											
<<Alt: 29.41 - 32.77 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 29.41 - 32.77 Subtle (restricted to crystal margins, fractures) K-feldspar>>											
<<Alt: 29.41 - 32.77 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 29.41 - 32.77 40% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >>											
<<Struc: 31.52 - 32.58 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>32.77</b>	<b>35.54</b>	<b>AND Andesite</b>									
32.77 - 35.54: Weakly altered andesite with local qtz-sfx veins											
<<Alt: 32.77 - 35.54 Weak (partial crystal replacement) Sericite>>											
<<Alt: 32.77 - 35.54 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<b>35.54</b>	<b>39.17</b>	<b>SLZN Summit Lake Zone</b>									
35.54 - 39.17: Moderately altered SLSZ with local foliation.											
<<Min: 35.54 - 39.17 10% Pyrite>>											
<<Alt: 35.54 - 39.17 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 35.54 - 39.17 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 35.54 - 39.17 40% Composite sulphide + calcite (banded SX- and CC-dominant) 25 deg. >> SXCC is the dominate vein type, hosting the sulfides, however, sulfides are also present in the qtz dominated veins that verprint the SXCC veins. Veins can range in tca from 10-40											
<<Struc: 36.15 - 37.31 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<<Struc: 36.64 - 37.19 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>39.17</b>	<b>40.54</b>	<b>AND Andesite</b>									
39.17 - 40.54: Weakly altered Andesite.											
<<Alt: 39.17 - 40.54 Subtle (restricted to crystal margins, fractures) Sericite>>											
<b>40.54</b>	<b>47.03</b>	<b>AND Andesite</b>									
40.54 - 47.03: Weakly altered andesite.											
<<Min: 40.54 - 47.03 15% Pyrite>> sulfide stringers locally present											
<<Alt: 40.54 - 47.03 Weak (partial crystal replacement) Sericite>>											
<<Alt: 40.54 - 47.03 Weak (partial crystal replacement) Chlorite>>											
<<Struc: 40.9 - 41.21 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**705**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 43.8 - 44.1 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>47.03</b>	<b>53.16</b>	<b>SLZN Summit Lake Zone</b>	50.54	51.45	0.91						
47.03 - 53.16: Interval with the highest grade (.329 oz/t). Silica flooding and potassic alteration. Black mineral was found but unsure what it is. Sample taken for further investigation. Sample is be taken over the interval for geochemical analysis.											
<<Min: 47.03 - 53.16 25% Pyrite>>											
<<Alt: 47.03 - 53.16 Intense (no primary minerals, textures mostly descstroyed) Silica>>											
<<Alt: 47.03 - 53.16 Strong (complete replacement, some primary QZ and textures) K-feldspar>>											
<<Vein: 47.03 - 53.16 80% Other veins (describe in Comments) 80 deg. >> qtz dominated vein with py. Potassic alteration included in the vein.											
<b>53.16</b>	<b>61.26</b>	<b>AND Andesite</b>									
53.16 - 61.26: Weakly altered andesite.											
<b>End of Hole @ 61.26</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **706**

Prospect:	L Zone	Hole Type:	Survey Type:	Logged By:	Thomas Mumford	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/17/2018	
UTM Easting:		Core Size:	Azimuth:	209	Date Logging Complete:	8/18/2018
UTM Northing:		Casing Pulled?:	Dip:	-4	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	106.38	Drill Rig:	
Local Easting:	6946.3	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3012.31	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3012.44			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Relogging of 706 - missing box 15 (medium-grade interval). Hole is comprised of heterogenous andesite cut by a number of small shear bands and veins froming weakly developed Summit Lake Zone. Veins are primarily calcite + py +/-po. Foliation is moderately developed in localized zones throughout the hole.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>7.07</b>	<b>MISS Missing Core</b>									
0 - 7.07: missing box 1											
<<Alt: 6.79 - 11.01 Moderate (most crystals replaced, textural modification) Silica>> pervasive silification of SLZN, locally variable, but is generally moderate											
<b>7.07</b>	<b>18.44</b>	<b>SLZN Summit Lake Zone</b>	7.07	8.14	1.07						
7.07 - 18.44: weak to moderately developed Summit Lake Zone, sulphide dom and cal + py,po veins, locally the foliation is moderately developed, disseminated py locally forms foliation											
<<Alt: 7.07 - 8.84 Weak (partial crystal replacement) Chlorite>> fracture controlled chl mineralization											
<<Alt: 7.07 - 16.22 Weak (partial crystal replacement) Silica>> pervasive silica alteration											
<<Vein: 7.07 - 16.28 7% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 61 deg. >> zone varies from the top to bottom starting with abundant thin <1cm qtz+/-py>po rich veins, a few cal rich veins of similar morphology but steeper TCA, as you progress low the veins become wider (3-8cm) and have a higher proportion of pyrite to qtz (but less po)											
<b>18.44</b>	<b>22.28</b>	<b>AND Andesite</b>									
18.44 - 22.28: grey green, fine-grained massive andesite											
<<Alt: 20.88 - 39.47 Weak (partial crystal replacement) Silica>> silification within the SLZN, extends outwards into andesite above and below - causes slight bleaching of the rock											

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
33.81	34.75	0.94						

**22.28 36.12 SLZN Summit Lake Zone**

22.28 - 36.12: weak to moderately developed SLZN, primary andesite textures are preserved locally, abundant zones of shearing, qtz + cal +sulphide veins, localized weak to moderately developed foliation, silica +/- ser altered with chlorite

<<Min: 22.28 - 27.74 5% Pyrite>> py in SLZN varies on a decimeter scale between foliated disseminations, chunkly blebs, and banded veins. Fairly consistent abundance, but style changes rapidly.

<<Min: 23.2 - 29 3% Pyrite>> 3 py hosted in small veins

<<Min: 23.2 - 29 0.5% Pyrrhotite>> minor belbs of po associated with py

<<Min: 29 - 53.41 2% Pyrite>> large variation in styles of py mineralization, as stringers, in fractures, py dominant 3-8cm wide veins, disseminations which form foliations

<<Alt: 22.28 - 27.74 Weak (partial crystal replacement) Chlorite>> patchy chlorite alteration, interstitial to lapilli?

<<Vein: 28.28 - 36.04 5% Composite sulphide + calcite (banded SX- and CC-dominant) 80 deg. >> weakly veined interval of SLZN, large variability from cal-rich to qtz rich veins - those containing sulphides are predominantly py>po

<<Struc: 22.28 - 23.16 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> shear fabric in SLZN

<<Struc: 23.2 - 29 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> observed in veins and very thing shear bands

<<Struc: 34.05 - 34.26 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>> lower angle shear than elsewhere in core, well developed shear fabric

**36.12 48.16 AND Andesite**

36.12 - 48.16: grey green massive fine-med grained andesite

<<Alt: 47.55 - 55.78 Weak (partial crystal replacement) Silica>> weak pervasive silicification

<<Struc: 47.5 - 49 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> foliation defined by elongated pyrite crystals and dark interstitial mineral (chlorite?)

**48.16 52.20 SLZN Summit Lake Zone**

48.16 - 52.2: weakly developed SLZN, pervasive silicification with a few spaced, sheared cal py>po veins, between veins the primary andesite fabrics are preserved

<<Min: 48.16 - 48.69 3% Pyrite>> py occuring in banded cal veins in SLZN

<<Min: 51.21 - 52.2 2% Pyrite>> py occuring and blebs, bands and disseminations associated with cal veins

<<Vein: 48.16 - 52.2 5% Calcite-dominant (CAL > PY + PO + CHL + SER) 55 deg. >> calcite dominant shear banded veins, with 5-10% py +/- po (non-mag)

**52.20 57.00 AND Andesite**

52.2 - 57: grey green, fine-grained andesite, heterogenous

<<Min: 52.2 - 61.57 2% Pyrite>> heterogenous distribution of py, occurs in small veins, as blebs, and fine-grained disseminations

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Min: 52.2 - 61.57 1% Pyrrhotite>> trace to 1% abundance of pyrrhotite associated with higher concentrations of py - occurs as small rounded pods									
<b>57.00</b>	<b>58.75</b>	<b>SLZN Summit Lake Zone</b>									
57 - 58.75: poorly developed SLZN, primarily marked due to the presence of two small (<5cm wide) banded cal +py>po veins., weak pervasive silicification associated											
		<<Alt: 58.06 - 58.75 Moderate (most crystals replaced, textural modification) Silica>> moderate pervasive silicification associated with veining									
		<<Vein: 57 - 58.75 3% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> two small cal +py>po vein groups in short interval, veins occur as distinct endmembers (cal and sulphide) as well as composites.									
		<<Struc: 57.61 - 57.76 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> moderately developed foliation in andesite									
<b>58.75</b>	<b>70.96</b>	<b>AND Andesite</b>									
58.75 - 70.96: grey green heterogenous andesite, potential very weak foliation, hosted in the matrix are irregular blebs of slightly more felsic composition - size from <cm to >10cm (lapilli?)											
		<<Min: 65.68 - 67.76 2% Pyrite>> py occurs as blebs (<1cm) and as med-grained disseminations that have been oriented with the foliation									
		<<Min: 70.03 - 70.26 5% Pyrite>> blebby and fracture controlled medium-grained pyrite									
		<<Alt: 69.8 - 73.46 Weak (partial crystal replacement) Silica>> weak pervasive silicification associated with SLZN - slight halo around clear deformation									
		<<Struc: 59.6 - 60 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> foliation defined by elongated medium-grained pyrite crystals									
<b>70.96</b>	<b>72.82</b>	<b>SLZN Summit Lake Zone</b>									
70.96 - 72.82: weak portion of the SLZN, moderately developed foliation, py +/-po mineralization, and hosts a small (22cm) wide felsic zone (medium grained, white with mafic phenos - dyke from Summit Lake intrusive?)											
		<<Min: 70.96 - 72.82 3% Pyrite>> SLZN, heterogenous distribution of py, one 4cm wide band contains up to 60% py - majority occurs a blebs within and adjacent to fractures									
		<<Vein: 70.96 - 72.82 3% Composite sulphide + calcite (banded SX- and CC-dominant) 60 deg. >> interval contains small calcite+py>po veins, as well as bands (veins?) of up to 60% py									
<b>72.82</b>	<b>75.22</b>	<b>AND Andesite</b>									
72.82 - 75.22: grey green andesite, heterogenous, fine-grained											
<b>75.22</b>	<b>81.08</b>	<b>SLZN Summit Lake Zone</b>									
75.22 - 81.08: very heterogenous interval of rock, exhibiting many of the textural factors denoting the SLZN - foliation, cal py-po veins, shearing, silicification, cal alteration, banded shear veins - moderately developed SLZN											
		<<Min: 75.22 - 81.08 3% Pyrite>> py primarily occurs as med-grained blebs associated with small fractures, and veins, also as fine-grained disseminations									

78.94	80.25	1.31
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## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**706**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<p>&lt;&lt;Alt: 75.96 - 82.14 Weak (partial crystal replacement) Silica&gt;&gt; weak pervasive silification associated with SLZN</p> <p>&lt;&lt;Alt: 77.57 - 82.45 Weak (partial crystal replacement) Carbonate&gt;&gt; weak patchy carbonate alteration associated with shearing</p> <p>&lt;&lt;Vein: 75.22 - 81.08 40% Composite sulphide + calcite (banded SX- and CC-dominant) 5 deg. &gt;&gt; interval of SLZN primarily consists of one vein at a shallow angle TCA, carbonate altered, banded py +/-po,</p> <p>&lt;&lt;Struc: 76.11 - 77.11 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt; foliation defined by mafic phenos in andesite</p>											
<b>81.08</b>	<b>96.44</b>	<b>AND</b>	<b>Andesite</b>								
81.08 - 96.44: medium grey green heterogenous andesite, fine to medium grained											
<b>96.44</b>	<b>103.63</b>	<b>MISS</b>	<b>Missing Core</b>								
96.44 - 103.63: missing a box - high grade interval (4oz/t) -likely taken fro show purposes											
<b>103.63</b>	<b>106.38</b>	<b>AND</b>	<b>Andesite</b>								
103.63 - 106.38: grey green heterogenous andesite with small interval with cal extensional veins											
<p>&lt;&lt;Vein: 105.61 - 106.07 10% Other veins (describe in Comments) 30 deg. &gt;&gt; sub parallel set of thin calc extensional veins</p>											
<b>End of Hole @ 106.38</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **707**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/20/2018	
UTM Easting:		Core Size:	Azimuth:	220.5	Date Logging Complete:	8/20/2018
UTM Northing:		Casing Pulled?:	Dip:	-44.5	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	69.49	Drill Rig:	
Local Easting:	6889.83	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3266.33	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	2987.47			Hole Completed?:		Purpose:
Comments:				Proposed ID:		Parent Hole:

Re-logging hole 707. Historical assay shows a peak in Au from 201 ft. to 203 ft. @ 1.71 oz/t. Hole primarily composed of Andesite with locally weak expressions of the SLSZ and cross-cutting dykes. Mineralization alteration is from 54.25- 63.86. Mineralization is heavily foliated with massive sulfides and an unknown black mineral associated with the sulfides. A photo was taken and recommend a thin section of the mineralization for further investigation.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>5.30</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>5.30</b>	<b>8.84</b>	<b>AND Andesite</b>									
<b>8.84</b>	<b>9.33</b>	<b>MISS Missing Core</b>									
<b>9.33</b>	<b>14.39</b>	<b>AND Andesite</b>									
<b>14.39</b>	<b>14.69</b>	<b>MISS Missing Core</b>									
<b>14.69</b>	<b>18.99</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>18.99</b>	<b>21.46</b>	<b>SLZN Summit Lake Zone</b>									
18.99 - 21.46: SLSZ with large local sxcc veins with alteration halos of cb and chl. Veins average 1.5 cm and the halo radius is ~5cm.											
<<Min: 18.99 - 21.46 20% Pyrite>>											
<<Alt: 18.99 - 21.46 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 18.99 - 21.46 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 18.99 - 21.46 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 18.99 - 21.46 Weak (partial crystal replacement) Carbonate>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<p>&lt;&lt;Vein: 18.99 - 21.46 20% Composite sulphide + calcite (banded SX- and CC-dominant) 20 deg. &gt;&gt; disseminated sulfides throughout the foliation and the edges of the vein</p> <p>&lt;&lt;Struc: 18.99 - 21.46 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>21.46</b>	<b>24.63</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>24.63</b>	<b>27.13</b>	<b>AND Andesite</b>									
24.63 - 27.13: Relatively unaltered andesite											
<b>27.13</b>	<b>29.11</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>29.11</b>	<b>34.75</b>	<b>SLZN Summit Lake Zone</b>									
29.11 - 34.75: Altered with local foliations and veining.											
<p>&lt;&lt;Min: 29.11 - 34.75 20% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 29.11 - 34.75 Weak (partial crystal replacement) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 29.11 - 34.75 Moderate (most crystals replaced, textural modification) Chlorite&gt;&gt; intensity concretated near foliations</p> <p>&lt;&lt;Alt: 29.11 - 34.75 Subtle (restricted to crystal margins, fractures) Carbonate&gt;&gt;</p> <p>&lt;&lt;Vein: 29.11 - 34.75 20% Composite sulphide + calcite (banded SX- and CC-dominant) 20 deg. &gt;&gt;</p> <p>&lt;&lt;Struc: 30.36 - 31.09 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p> <p>&lt;&lt;Struc: 31.64 - 32.43 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>34.75</b>	<b>36.03</b>	<b>AND Andesite</b>									
<<Struc: 34.75 - 34.9 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>36.03</b>	<b>37.00</b>	<b>AND Andesite</b>									
36.03 - 37: Weakly altered andesite with local cb veins											
<b>37.00</b>	<b>37.31</b>	<b>SLZN Summit Lake Zone</b>									
37 - 37.31: 1 large vein with foliation and minor sulfides.											
<p>&lt;&lt;Min: 37 - 37.31 7% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 37 - 37.31 Subtle (restricted to crystal margins, fractures) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 37 - 37.31 Weak (partial crystal replacement) Chlorite&gt;&gt;</p> <p>&lt;&lt;Vein: 37 - 37.31 50% Calcite-dominant (CAL &gt; PY + PO + CHL + SER) 38 deg. &gt;&gt;</p>											
<b>37.31</b>	<b>41.82</b>	<b>AND Andesite</b>									
37.31 - 41.82: Andesite with local cb and qtz-extensional fractures.											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**707**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>41.82</b>	<b>42.61</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 41.82 - 42.61 3% Pyrite>> <<Alt: 41.82 - 42.61 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 41.82 - 42.61 Weak (partial crystal replacement) Chlorite>> <<Vein: 41.82 - 42.61 60% Calcite-dominant (CAL > PY + PO + CHL + SER) 10 deg. >> <<Struc: 41.82 - 42.61 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> <<Struc: 42.12 - 42.43 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>42.61</b>	<b>44.81</b>	<b>AND Andesite</b>									
<b>44.81</b>	<b>45.69</b>	<b>SLZN Summit Lake Zone</b>	45.14	45.60	0.46						
44.81 - 45.69: SLSZ? Black mineral/vein(?) with sulfides around it. Unsure what the mineral is. Sample taken. Intense foliation locally found with mineralization. <<Min: 44.81 - 45.69 12% Pyrite>> <<Alt: 44.81 - 45.69 Weak (partial crystal replacement) Sericite>> <<Alt: 44.81 - 45.69 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>45.69</b>	<b>48.89</b>	<b>AND Andesite</b>									
45.69 - 48.89: Andesite with local cb and qtz veins osting trace amounts of disseminated sulfides.											
<b>48.89</b>	<b>49.19</b>	<b>SLZN Summit Lake Zone</b>									
48.89 - 49.19: Strong to moderately altered interval with lots of sulfide stringer/veinlets but no obvious veins apparent <<Min: 48.89 - 49.19 20% Pyrite>> <<Alt: 48.89 - 49.19 Strong (complete replacement, some primary QZ and textures) Sericite>> <<Alt: 48.89 - 49.19 Weak (partial crystal replacement) K-feldspar>> <<Alt: 48.89 - 49.19 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>49.19</b>	<b>54.25</b>	<b>AND Andesite</b>									
49.19 - 54.25: Locally foliated and local cb and qtz veining with minor sfx. <<Alt: 49.19 - 54.25 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Struc: 49.35 - 49.59 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>> <<Struc: 50.57 - 50.78 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>54.25</b>	<b>57.15</b>	<b>AND Andesite</b>									
54.25 - 57.15: Slightly bleached in appearance. Variable qtz ext and cb fracture veins sets. <<Alt: 54.25 - 57.15 Moderate (most crystals replaced, textural modification) Silica>> unsure about this alteration											

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

707

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm											
<<Alt: 54.25 - 57.15 Weak (partial crystal replacement) Chlorite>> <b>57.15 60.20 SLZN Summit Lake Zone</b> 57.15 - 60.2: Mineralized SLSZ. Massive po and py stringers following along foliation. A black mineral is associated with the massive sulfides but unsure what it is. Sample taken for geochemistry. Heavily altered, unsure about the veining in this interval. <<Min: 57.15 - 60.2 30% Pyrite>> <<Min: 57.15 - 60.2 75% Pyrrhotite>> <<Alt: 57.15 - 60.2 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 57.15 - 60.2 Weak (partial crystal replacement) Sericite>> <<Alt: 57.15 - 60.2 Moderate (most crystals replaced, textural modification) K-feldspar>> moderate k-spar alteration locally found <<Alt: 57.15 - 60.2 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Struc: 57.15 - 58.37 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> <<Struc: 58.37 - 60.2 Intense (no primary minerals, textures mostly destroyed) Foliation (penetrative planar fabric)>> <b>60.20 61.33 LMP Lamprophyre (dark grey-brown to black mafic dykes)</b> <b>61.33 63.86 SLZN Summit Lake Zone</b>												59.25	60.05	0.80								
61.33 - 63.86: Heavily altered SLSZ. Massive py+po with associated black mineral. O large vein (?). Photo taken. High grade (over 1.0 oz/tn) <<Min: 61.33 - 63.86 70% Pyrite>> <<Min: 61.33 - 63.86 20% Pyrrhotite>> <<Alt: 61.33 - 63.86 Weak (partial crystal replacement) Sericite>> <<Alt: 61.33 - 63.86 Weak (partial crystal replacement) K-feldspar>> <<Alt: 61.33 - 63.86 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Vein: 61.33 - 61.94 100% Other veins (describe in Comments) 38 deg. >> slight cb in the vein (?). Quite silicicious. <b>63.86 67.94 AND Andesite</b> 63.86 - 67.94: Slightly altered andesite <b>67.94 68.79 LMP Lamprophyre (dark grey-brown to black mafic dykes)</b> <b>68.79 69.49 AND Andesite</b>												61.33	62.30	0.97								
<b>End of Hole @ 69.49</b>																						



## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **709**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/17/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/17/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	6889.34	Stored?:	Yes	Claims Title:	Drill Started:
Local Northing:	3266.84	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	2987.84			Hole Completed?:	Purpose:
Comments:			Proposed ID:	Parent Hole:	

Note: gaps in lithology represent missing segments (non-recoverable) core or boxes. Hole starts with ~43m of the lamprophyre dyke followed by ~19m of dominantly andesite. This is continued by alternating of a weak signature of the SLSZ and altered andesite. The hole ends with the highest historical intercept with a shear zone between to intervals of dykes. 3 samples were taken: 1) representative sample of the andesite 2)sample of some SLSZ interval and 3) sample from the highest intercept.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>43.80</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
0 - 43.8: Dark minerals (biotite?) vary in size from coarse to very fine.											
<<Vein: 23.23 - 23.32 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 30 deg. >>											
<<Struc: 22.95 - 23.23 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<<Struc: 23.23 - 23.32 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>> s-shear fabric present											
<b>43.80</b>	<b>47.82</b>	<b>AND Andesite</b>									
43.8 - 47.82: slightly silicified. Barren cb veins are the dominate vein type.											
<b>47.82</b>	<b>51.72</b>	<b>AND Andesite</b>									
47.82 - 51.72: slightly silicified. Dominate vein type are the qtz extensional veins with cb and sericite+-py. Disseminated pyrite is found along this unit also											
<<Min: 47.82 - 51.72 1% Pyrite>>											
<<Vein: 47.82 - 51.72 35% Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 82 deg. >> qtz extensional veins with 1% py. Sericite and cb are also present in the veins.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
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**51.72 54.68 SLZN Summit Lake Zone**

51.72 - 54.68: SLSZ. Weakly silicified and moderately chloritized. Qtz-cb sfx veins are present and qtz extensional veins overprinting the interval (still 82 tca).

<<Min: 51.72 - 54.68 5% Pyrite>> Pyrite found in veins and disseminated throughout the interval.  
 <<Alt: 51.72 - 54.68 Subtle (restricted to crystal margins, fractures) Silica>> slightly silicified locally  
 <<Alt: 51.72 - 54.68 Moderate (most crystals replaced, textural modification) Chlorite>>  
 <<Vein: 51.72 - 54.68 20% Composite sulphide + calcite (banded SX- and CC-dominant) 30 deg. >> Notable qtz-sfx-cb chl veins. Sulfide stringers and qtz-extensional veins are also present in this interval.

**54.68 58.67 AND Andesite**

54.71	55.44	0.73
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54.68 - 58.67: Andesite with steep (>80 tca) qtz extensional veins

<<Vein: 54.68 - 65.71 40% Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 83 deg. >>

**59.13 59.44 AND Andesite**

**60.17 60.50 VEIN massive vein**

60.17 - 60.5: Core is crumbled. Vein appears to be a qtz extensional vein based in the crystal growth. Sericite and minor carbonate is also present in the vein but no sulfides.

<<Min: 60.24 - 75.29 1% Pyrite>> disseminated pyrite throughout unit with local sulfide stringers.  
 <<Alt: 60.24 - 75.29 Subtle (restricted to crystal margins, fractures) Silica>>  
 <<Alt: 60.24 - 75.29 Weak (partial crystal replacement) Chlorite>>

**60.50 64.04 SLZN Summit Lake Zone**

62.61	63.67	1.06
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60.5 - 64.04: banded sulfide-cb veins present with minor foliation parallel to those veins. Moderately chloritized. Minor, steep (tca>80) qtz extensional veins are locally present as well.

<<Min: 60.5 - 64.04 30% Pyrite>>  
 <<Min: 60.5 - 64.04 10% Pyrrhotite>>  
 <<Alt: 60.5 - 64.04 Weak (partial crystal replacement) Sericite>>  
 <<Alt: 60.5 - 64.04 Moderate (most crystals replaced, textural modification) Chlorite>>  
 <<Vein: 60.5 - 64.04 20% Composite sulphide + calcite (banded SX- and CC-dominant) 42 deg. >> qtz extensional veins are also present in this interval

**64.04 65.20 SLZN Summit Lake Zone**

64.04 - 65.2: Moderately chloritic altered shear zone. Py and po disseminated throughout the unit as well as the veins.

<<Min: 64.04 - 65.2 30% Pyrite>>  
 <<Min: 64.04 - 65.2 5% Pyrrhotite>>  
 <<Alt: 64.04 - 65.02 Subtle (restricted to crystal margins, fractures) Sericite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 64.04 - 65.2 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Vein: 64.04 - 65.2 25% Composite sulphide + calcite (banded SX- and CC-dominant) 38 deg. >> Dominate vein type is the sxcc with strongly chloritic veins(?) hosting sulfides locally.									
		<<Struc: 64.92 - 65.17 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> sigmoidal shear band present.									
		<b>65.47 68.24 SLZN Summit Lake Zone</b>									
		65.47 - 68.24: Strongly chloritized summit lake shear zone interval with locally foliated section in the interval, overprinted by a qtz extensional vein.									
		<<Min: 65.47 - 68.24 20% Pyrite>>									
		<<Min: 65.47 - 68.24 5% Pyrrhotite>>									
		<<Alt: 65.47 - 68.24 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 65.47 - 68.24 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Vein: 65.47 - 68.24 20% Composite sulphide + calcite (banded SX- and CC-dominant) 48 deg. >> dominately banded sulfide cb veins vary from .2 to 1.5 cm in width. Smaller vein composition is dominately py/po. Large veins are overprinted by extensional qtz veins.									
		<<Struc: 67.79 - 68.09 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<b>68.24 75.29 AND Andesite</b>									
		68.24 - 75.29: Dark green andesite. Weak chloritization and silicification. Dominate veins are qtz extensional with local sulfide stringers. Qtz extensional veins are slightly sericitized with minor cb.									
		<b>75.29 76.20 SLZN Summit Lake Zone</b>									
		75.29 - 76.2: Intensely chloritized alteration/vein(?). Disseminated sulfides throughout and moderate foliation throughout the interval.									
		<<Min: 75.29 - 76.2 20% Pyrite>>									
		<<Min: 75.29 - 76.2 5% Pyrrhotite>>									
		<<Alt: 75.29 - 76.2 Intense (no primary minerals, textures mostly destroyed) Chlorite>>									
		<<Vein: 75.29 - 75.74 50% Composite sulphide + calcite (banded SX- and CC-dominant) 25 deg. >>									
		<b>76.20 76.50 SLZN Summit Lake Zone</b>									
		<<Min: 76.2 - 76.5 5% Pyrite>>									
		<<Min: 76.2 - 76.5 1% Pyrrhotite>>									
		<<Alt: 76.2 - 76.5 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<b>76.50 78.52 AND Andesite</b>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>78.52</b>	<b>79.71</b>	<b>SLZN Summit Lake Zone</b>									
<p>78.52 - 79.71: strongly chloritized veins appearing to brecciate (?) host rock. Disseminated sulfides present throughout interval. Local foliation associated with the shear veins.</p> <p>&lt;&lt;Min: 78.52 - 79.71 10% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 78.52 - 79.71 Strong (complete replacement, some primary QZ and textures) Chlorite&gt;&gt;</p> <p>&lt;&lt;Vein: 78.52 - 79.71 30% Composite sulphide + calcite (banded SX- and CC-dominant) 23 deg. &gt;&gt;</p>											
<b>79.71</b>	<b>80.25</b>	<b>AND Andesite</b>									
<p>79.71 - 80.25: Chloritized Andesite with no veins or apparent foliation</p>											
<b>80.25</b>	<b>80.65</b>	<b>SLZN Summit Lake Zone</b>									
<p>80.25 - 80.65: banded sulfide carbonate vein with qtz extensional vein crosscutting the former.</p> <p>&lt;&lt;Min: 80.25 - 80.65 5% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 80.25 - 80.65 Moderate (most crystals replaced, textural modification) Chlorite&gt;&gt;</p> <p>&lt;&lt;Vein: 80.25 - 80.65 40% Composite sulphide + calcite (banded SX- and CC-dominant) 28 deg. &gt;&gt;</p>											
<b>80.65</b>	<b>84.43</b>	<b>AND Andesite</b>									
<p>80.65 - 84.43: Dark green andesite with local cb-sfx veins throughout the unit as well as sulfide stringers. Qtz extensional veins present locally.</p>											
<b>84.43</b>	<b>92.17</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>92.17</b>	<b>96.32</b>	<b>SLZN Summit Lake Zone</b>	92.17	92.48	0.31						
<p>92.17 - 96.32: Highest intercept in the hole from 302-304. Veins could not be measure due to the poor rock quality (crumbled) and quantity. Apparent veins are calcitic with minor sulfides (py/po). Slightly silicic alteration and weak chloritization.</p> <p>&lt;&lt;Min: 92.17 - 96.32 3% Pyrite&gt;&gt;</p> <p>&lt;&lt;Min: 92.17 - 96.32 3% Pyrrhotite&gt;&gt;</p> <p>&lt;&lt;Alt: 92.17 - 96.32 Weak (partial crystal replacement) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 92.17 - 96.32 Weak (partial crystal replacement) Chlorite&gt;&gt;</p>											
<b>96.32</b>	<b>99.97</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<p><b>End of Hole @ 99.97</b></p>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **713**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/25/2018	
UTM Easting:		Core Size:	Azimuth:	246	Date Logging Complete:	8/25/2018
UTM Northing:		Casing Pulled?:	Dip:	-26	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	76.2	Drill Rig:	
Local Easting:	7003.14	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3182.99	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3015.57			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Re-logging hole 713 (Note: Dip is actually +ve, not -ve. Notable intercept with a grade of 0.62 oz/tn between 195-199.) Dominately weakly altered andesite with local intervals of lamprophyre. Andesite moderately to strongly altered with weak to moderate foliation near the end of the hole. Possible trace expressions of SLSZ, however, the boxes with the highest grade are missing.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>31.00</b>	<b>AND Andesite</b>	19.63	20.51	0.88						
<<Min: 19.63 - 20.51 2% Pyrite>> <<Min: 19.63 - 20.51 1% Pyrrhotite>> <<Alt: 0 - 31 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 0 - 31 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Alt: 0 - 31 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 17.8 - 20.48 70% Calcite-dominant (CAL > PY + PO + CHL + SER) 12 deg. >> qtz-cb-chl veins, extensional											
<b>31.00</b>	<b>31.85</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>31.85</b>	<b>40.23</b>	<b>AND Andesite</b>									
<<Alt: 31.85 - 40.23 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 31.85 - 40.23 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<b>40.23</b>	<b>41.15</b>	<b>AND Andesite</b>									
<<Min: 40.23 - 41.15 2% Pyrite>> disseminated throughout the interval <<Alt: 40.23 - 41.15 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 40.23 - 41.15 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 40.23 - 41.15 Subtle (restricted to crystal margins, fractures) Chlorite>>											



## GeoSpark Logger ~ Drill Log

**Project:**
**Scottie Gold**
**Hole Number:**
**713**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>41.15</b>	<b>42.28</b>	<b>LMP</b>									
		<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>42.28</b>	<b>47.64</b>	<b>AND</b>									
		<b>Andesite</b>									
<b>47.64</b>	<b>61.11</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>61.11</b>	<b>62.54</b>	<b>AND</b>									
		<b>Andesite</b>									
<<Min: 61.11 - 62.54 2% Pyrite>> disseminated throughout and local sulfide stringers <<Min: 61.11 - 62.54 1% Pyrrhotite>> disseminated throughout the interval <<Alt: 61.11 - 62.54 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 61.11 - 62.54 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 61.11 - 62.54 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Struc: 61.11 - 62.54 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>62.54</b>	<b>65.84</b>	<b>LMP</b>									
		<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>65.84</b>	<b>68.09</b>	<b>AND</b>									
		<b>Andesite</b>									
<<Min: 65.84 - 68.09 20% Pyrite>> disseminated <<Alt: 65.84 - 68.09 Weak (partial crystal replacement) Sericite>> <<Alt: 65.84 - 68.09 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 65.84 - 68.09 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 65.84 - 68.09 30% Composite sulphide + calcite (banded SX- and CC-dominant) 15 deg. >> <<Struc: 65.84 - 68.09 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>68.09</b>	<b>75.07</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>75.07</b>	<b>76.20</b>	<b>AND</b>									
		<b>Andesite</b>									
<b>End of Hole @ 76.2</b>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **714**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Thomas Mumford	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/17/2018	
UTM Easting:		Core Size:	Azimuth:	255.5	Date Logging Complete:	8/17/2018
UTM Northing:		Casing Pulled?:	Dip:	-11	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	74.68	Drill Rig:	
Local Easting:	7001.55	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3184.62	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3012.36			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Relogging of 714, primarily lapilli andesite hosting a few late crosscutting lamprophyre dykes. The andesite includes a few small shear bands with cal+py>po veins forming short intervals interpreted as weakly developed SLZN structures - missing core from key high-grade interval near bottom of hole

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>10.82</b>	<b>AND Andesite</b>	<b>2</b>	8.69	9.24	0.55					
<p>0 - 10.82: massive grey green andesite, lapilli up to large gravel / small cobble clasts in size, and are generally more felsic than the matrix, unfoliated</p>											
<b>10.82</b>	<b>13.03</b>	<b>SLZN Summit Lake Zone</b>	<b>2</b>								
<p>10.82 - 13.03: weak to moderately foliated and veined zone, locally primary lapilli andesite textures are preserved, chlorite and silica alteration, py+po sulfides,</p> <p>&lt;&lt;Min: 10.82 - 13.03 3% Pyrite&gt;&gt; irregular patchy pyrite distribution, fine to medium-grained, commonly associated with chlorite and brittle fractures (remobilization?) - local occurrences up to 10%</p> <p>&lt;&lt;Min: 10.82 - 13.03 2% Pyrrhotite&gt;&gt; pyrrhotite is primarily located within fractures and is generally associated with py</p> <p>&lt;&lt;Alt: 12.19 - 13.03 Moderate (most crystals replaced, textural modification) Silica&gt;&gt; pervasive silicification</p> <p>&lt;&lt;Alt: 12.19 - 13.03 Weak (partial crystal replacement) Chlorite&gt;&gt; chlorite alteration along bands within small shear zones &lt;5cm</p> <p>&lt;&lt;Vein: 12.19 - 13.03 30% Sulphide +/- quartz vein (PO &gt; PY +/- QTZ +/- CHL) 35 deg. &gt;&gt; complex vein comprised of qtz + py &gt;po, halo of moderate silicification around veins, primary andesite textures locally preserved</p> <p>&lt;&lt;Struc: 12.19 - 13.03 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt; small shear bands adjacent to quartz + py&gt;po veins</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>13.03</b>	<b>23.23</b>	<b>AND Andesite</b>									
13.03 - 23.23: massive grey green andesite, lapilli up to large gravel / small cobble clasts in size, and are generally more felsic than the matrix, unfoliated											
<b>23.23</b>	<b>23.62</b>	<b>SLZN Summit Lake Zone</b>	23.23	23.62	0.39						
23.23 - 23.62: small banded shear vein (4 cm true width) broken out as a separate lithology											
<<Min: 23.41 - 23.47 3% Pyrite>> py hosted within banded calcite banded shear vein											
<<Min: 23.41 - 23.47 0.5% Pyrrhotite>> trace po within banded calcite shear vein											
<<Alt: 23.23 - 23.62 Subtle (restricted to crystal margins, fractures) Chlorite>> minor chlorite alteration along shear bands											
<<Alt: 23.23 - 23.62 Weak (partial crystal replacement) Calcite>> vein/fracture hosted calcite alteration within slzn											
<<Vein: 23.23 - 23.62 15% Calcite-dominant (CAL > PY + PO + CHL + SER) 28 deg. >> small shear vein (4cm true width), calcite, py +/- po, minor chlorite along margins											
<<Struc: 23.41 - 23.47 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> small shear band - inferred to belong to SLZN											
<b>23.62</b>	<b>35.60</b>	<b>AND Andesite</b>									
23.62 - 35.6: massive grey green andesite, lapilli up to large gravel / small cobble clasts in size, and are generally more felsic than the matrix, unfoliated											
<<Alt: 32.89 - 35.6 Subtle (restricted to crystal margins, fractures) Silica>> weak pervasive silicification - possibly related to underlying lamp?											
<b>35.60</b>	<b>38.94</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
35.6 - 38.94: mafic dyke with quenched margins, center of dyke is med-grained, minor amygdules of calcite. Mafic phenocrysts up to 2 mm wide (amphibole?) - no feldspars visible - likely a lamprophyre											
<b>38.94</b>	<b>46.63</b>	<b>AND Andesite</b>									
38.94 - 46.63: massive grey green andesite, lapilli up to large gravel / small cobble clasts in size, and are generally more felsic than the matrix, unfoliated											
<b>46.63</b>	<b>47.52</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
46.63 - 47.52: lamp with quenched margins, mafic phenocrysts											
<b>47.52</b>	<b>48.37</b>	<b>AND Andesite</b>									
47.52 - 48.37: massive grey green andesite, unfoliated, variable texture (massive, clast and matrix supported lapilli)											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**714**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>48.37</b>	<b>52.88</b>	<b>SLZN Summit Lake Zone</b>									
48.37 - 52.88: cal py>po veining, localized shearing, disseminated py, weak cal alteration											
<<Min: 48.37 - 52.88 3% Pyrite>> pyrite occurs in cal veins, disseminated and in fracture fillings, varying from fine-grained to med-grained rounded blebs											
<<Min: 48.37 - 52.88 1% Pyrrhotite>> trace to 1% non-magnetic pyrrhotite associated with py in cal veins, py>po											
<<Alt: 48.37 - 52.88 Weak (partial crystal replacement) Silica>> pervasive sil alteration											
<<Alt: 48.37 - 52.88 Subtle (restricted to crystal margins, fractures) Calcite>> weak pervasive calcite alt											
<<Vein: 48.37 - 52.88 7% Calcite-dominant (CAL > PY + PO + CHL + SER) 50 deg. >> small <5cm wide true width cal veins+/-py>po, large variation in abundance of sulphides to calcite											
<b>52.88</b>	<b>73.24</b>	<b>MISS Missing Core</b>									
52.88 - 73.24: 3 boxes missing - including high-grade interval											
<b>73.24</b>	<b>74.38</b>	<b>AND Andesite</b>									
73.24 - 74.38: grey-green massive andesite, unfoliated, coarser-grained than higher in the hole - notably less lapilli.											
<b>74.38</b>	<b>74.68</b>	<b>SLZN Summit Lake Zone</b>									
74.38 - 74.68: cal + py>po veining in andesite											
<<Min: 74.38 - 74.68 5% Pyrite>> py in a med-grained 1 cm wide vein											
<<Min: 74.38 - 74.68 2% Pyrrhotite>> po in med-grained											
<<Vein: 74.38 - 74.68 5% Calcite-dominant (CAL > PY + PO + CHL + SER) 52 deg. >> small cal py>po veins, two related veins, one sulphide dominant the other cal over a 5 cm interval											
<b>End of Hole @ 74.68</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **718**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/29/2018	
UTM Easting:		Core Size:	Azimuth:	216.3	Date Logging Complete:	8/30/2018
UTM Northing:		Casing Pulled?:	Dip:	-15.7	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	117.35	Drill Rig:	
Local Easting:	6977.66	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	2996.32	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3013.42			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Re-logging hole 718. (Note: dip is actually +ve, not -ve). Hole started with moderate expressions of SLZN with altered andesite. This is followed by unaltered andesite. The unaltered andesite is continued with a high grade intercept, interpreted as "L zone". Notable grade of both Au and Ag but with an inverse correlation. Samples taken from both high grade zone to see if geochemistry can solve this mystery.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>17.53</b>	<b>SLZN Summit Lake Zone</b>	2.04	3.60	1.56						
0 - 17.53: Weak to moderate expressions of SLSZ. Rhodochrosite locally present. Foliation intensity varied.											
<<Min: 0 - 17.53 25% Pyrite>>											
<<Min: 0 - 17.53 1% Pyrrhotite>>											
<<Alt: 0 - 17.53 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 0 - 17.53 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 0 - 17.53 Weak (partial crystal replacement) Carbonate>>											
<<Vein: 0 - 17.53 40% Calcite-dominant (CAL > PY + PO + CHL + SER) 33 deg. >>											
<<Struc: 0 - 2.04 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<<Struc: 2.04 - 3.6 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<<Struc: 3.6 - 8.84 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<<Struc: 8.84 - 10.79 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<<Struc: 10.79 - 17.53 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>17.53</b>	<b>22.37</b>	<b>AND Andesite</b>									
17.53 - 22.37: Altered andesite with a weak foliation, disseminated py, and local cc veins.											
<<Min: 17.53 - 22.37 5% Pyrite>> Disseminated throughout the interval.											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **718**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 17.53 - 22.37 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 17.53 - 22.37 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 17.53 - 22.37 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Struc: 17.53 - 22.37 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
		<b>22.37 43.19 SLZN Summit Lake Zone</b>									
		22.37 - 43.19: Weak expression of SLZN. Minor amounts of rhodochrosite locally found.									
		<<Min: 22.37 - 43.19 15% Pyrite>> Found disseminated throughout and in cc veins									
		<<Alt: 22.37 - 43.19 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 22.37 - 43.19 Subtle (restricted to crystal margins, fractures) K-feldspar>> Unsure about his alteration.									
		<<Alt: 22.37 - 43.19 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Alt: 22.37 - 43.19 Moderate (most crystals replaced, textural modification) Carbonate>>									
		<<Vein: 22.37 - 43.19 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >>									
		<<Struc: 22.37 - 43.19 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<b>43.19 64.43 AND Andesite</b>									
		43.19 - 64.43: Variable alteration and foliation in intensity.									
		<<Min: 43.19 - 64.43 5% Pyrite>> disseminated throughout the interval and local sulfide stringers									
		<<Alt: 43.19 - 49.47 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 43.19 - 49.47 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 43.19 - 49.47 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Alt: 49.47 - 50.17 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 49.47 - 50.17 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 49.47 - 50.17 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 50.17 - 63.7 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 50.17 - 63.7 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 50.17 - 63.7 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Alt: 63.7 - 64.01 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 63.7 - 64.01 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 63.7 - 64.01 Weak (partial crystal replacement) Chlorite>>									
		<<Struc: 43.19 - 49.47 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
		<<Struc: 49.47 - 50.17 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<<Struc: 50.17 - 64.43 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									

49.47	50.17	0.70
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## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **718**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>64.43</b>	<b>67.57</b>	<b>FLT Fault</b>									
64.43 - 67.57: Rock chips has the appearance of andesite.											
<b>67.57</b>	<b>75.93</b>	<b>AND Andesite</b>	70.44	71.35	0.91						
67.57 - 75.93: Local qtz-extensional veins											
<<Min: 67.57 - 75.93 3% Pyrite>> Disseminated throughout the interval.											
<<Alt: 67.57 - 75.93 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 67.57 - 75.93 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 67.57 - 75.93 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Struc: 70.44 - 71.35 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>75.93</b>	<b>81.08</b>	<b>AND Andesite</b>									
75.93 - 81.08: Locally coarse py disseminated throughout the interval with no orientation, foliation, nor hosted in veins.											
<<Min: 76.08 - 81.08 5% Pyrite>> disseminated- to coarse grained py											
<b>81.08</b>	<b>82.51</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>82.51</b>	<b>106.71</b>	<b>AND Andesite</b>	87.14	88.09	0.95						
82.51 - 106.71: Relatively unaltered andesite with local cb and qtz extensional veins. Alteration gradually increases near the end of the interval.											
<<Min: 82.51 - 106.71 2% Pyrite>> disseminated py											
<<Alt: 105.22 - 106.71 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 105.22 - 106.71 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<b>106.71</b>	<b>110.95</b>	<b>SLZN Summit Lake Zone</b>	106.83	107.90	1.07						
106.71 - 110.95: L zone intercept with inverse correlation between Au and Ag grades. Semi-massive sulfides present.											
<<Min: 106.71 - 110.95 30% Pyrite>>											
<<Min: 106.71 - 110.95 15% Pyrrhotite>>											
<<Min: 106.71 - 110.95 5% Arsenopyrite>>											
<<Alt: 106.71 - 110.95 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 106.71 - 110.95 Strong (complete replacement, some primary QZ and textures) Chlorite>>											
<<Alt: 106.71 - 110.95 Weak (partial crystal replacement) Carbonate>>											
<<Vein: 106.71 - 110.95 60% Composite sulphide + calcite (banded SX- and CC-dominant) 43 deg. >>											
<<Struc: 106.71 - 110.95 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**718**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>110.95</b>	<b>117.35</b>	<b>DIO Diorite (FSP-phyric to porphyritic)</b>									
110.95 - 117.35: Altered/foliated diorite.											
<<Min: 110.95 - 117.35 3% Pyrite>>											
<<Alt: 110.95 - 117.35 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 110.95 - 117.35 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 110.95 - 117.35 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Struc: 110.95 - 117.35 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>End of Hole @ 117.35</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **724**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/23/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/23/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	6956.81	Stored?:	Yes	Claims Title:	Drill Started:
Local Northing:	3240.52	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	3007.1			Hole Completed?:	Purpose:
Comments:			Proposed ID:	Parent Hole:	

Re-logging hole 724. Note: Historical log shows dip +, not -. Notable grades (0.055-0.21 oz/t) between 427ft - 445 ft. Dominantly Andesite with locally weak expression of the SLSZ, noted by local foliations and alterations. Diorite was also found with gradation of alteration (chlorite) towards the end of the interval. Main SLSZ intercept was found at the end of the hole with increasing alteration, and foliation following it. 4 samples were taken: 1) A representative sample of unaltered andesite 2-4) Samples from ~50ft away, ~10 ft away, and directly on the mineralized intercept to check for any alteration pattern that may exist.

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>2.38</b>	<b>AND Andesite</b>									
<b>2.38</b>	<b>3.51</b>	<b>SLZN Summit Lake Zone</b>									
2.38 - 3.51: Weak expression of the SLSZ											
<<Min: 2.38 - 3.51 2% Pyrite>>											
<<Alt: 2.38 - 3.51 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 2.38 - 3.51 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 2.38 - 3.51 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 2.38 - 3.51 30% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >>											
<<Struc: 2.38 - 3.51 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>3.51</b>	<b>7.77</b>	<b>AND Andesite</b>									
<b>7.77</b>	<b>11.16</b>	<b>AND Andesite</b>									
7.77 - 11.16: Weakly altered andesite											
<<Min: 7.77 - 11.16 5% Pyrite>>											
<<Alt: 7.77 - 11.16 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 7.77 - 11.16 Moderate (most crystals replaced, textural modification) Sericite>>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **724**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 7.77 - 11.16 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 7.77 - 11.16 35% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> <<Struc: 7.77 - 11.16 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>11.16</b>	<b>25.57</b>	<b>AND Andesite</b>									
11.16 - 25.57: Unaltered andesite with local sulfide stringers/ cb veins											
<b>25.57</b>	<b>28.50</b>	<b>SLZN Summit Lake Zone</b>									
25.57 - 28.5: Weak expression of the SLSZ											
<<Min: 25.57 - 28.5 5% Pyrite>> <<Alt: 25.57 - 28.5 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 25.57 - 28.5 Weak (partial crystal replacement) Chlorite>> <<Vein: 25.57 - 28.5 30% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >> <<Struc: 25.57 - 28.5 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>28.50</b>	<b>30.33</b>	<b>AND Andesite</b>									
28.5 - 30.33: Andesite with local cb veins											
<b>30.33</b>	<b>30.94</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 30.33 - 30.94 5% Pyrite>> <<Alt: 30.33 - 30.94 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 30.33 - 30.94 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 30.33 - 30.94 Subtle (restricted to crystal margins, fractures) K-feldspar>> <<Alt: 30.33 - 30.94 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 30.33 - 30.94 60% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >> <<Struc: 30.33 - 30.94 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>30.94</b>	<b>40.54</b>	<b>AND Andesite</b>	35.33	36.12	0.79						
30.94 - 40.54: Unaltered andesite with local cb veins and sulfide stringers. Sample taken.											
<b>40.54</b>	<b>41.15</b>	<b>AND Andesite</b>									
<b>41.15</b>	<b>41.76</b>	<b>MISS Missing Core</b>									
<b>41.76</b>	<b>42.61</b>	<b>AND Andesite</b>									
<b>42.61</b>	<b>42.85</b>	<b>MISS Missing Core</b>									
<b>42.85</b>	<b>44.07</b>	<b>AND Andesite</b>									
<b>44.07</b>	<b>44.65</b>	<b>MISS Missing Core</b>									

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

724

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>44.65</b>	<b>46.33</b>	<b>AND Andesite</b>									
<b>46.33</b>	<b>46.60</b>	<b>MISS Missing Core</b>									
<b>46.60</b>	<b>73.15</b>	<b>AND Andesite</b>									
46.6 - 73.15: Andesite with locally silicified sections. Locally foliated.											
<<Alt: 46.6 - 47.46 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 47.46 - 73.15 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 67.97 - 68.58 Moderate (most crystals replaced, textural modification) Clay>>											
<<Vein: 65.87 - 66.87 30% Calcite-dominant (CAL > PY + PO + CHL + SER) 28 deg. >>											
<<Struc: 65.87 - 66.87 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>73.15</b>	<b>74.16</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 73.15 - 74.16 35% Pyrite>>											
<<Alt: 73.15 - 74.16 Weak (partial crystal replacement) Silica>>											
<<Alt: 73.15 - 74.16 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 73.15 - 74.16 Strong (complete replacement, some primary QZ and textures) Chlorite>>											
<<Vein: 73.15 - 74.16 50% Composite sulphide + calcite (banded SX- and CC-dominant) 38 deg. >>											
<<Struc: 73.15 - 74.16 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>74.16</b>	<b>81.38</b>	<b>AND Andesite</b>									
<<Alt: 74.16 - 81.38 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 74.16 - 81.38 Weak (partial crystal replacement) Chlorite>>											
<b>81.38</b>	<b>87.48</b>	<b>AND Andesite</b>									
81.38 - 87.48: Altered andesite with localized foliation. Disseminated py strings also present, however no real orientation.											
<<Min: 81.38 - 87.48 2% Pyrite>> disseminated throughout the interval.											
<<Alt: 81.38 - 87.48 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 81.38 - 87.48 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 81.38 - 87.48 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Struc: 81.69 - 81.99 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<<Struc: 85.65 - 85.98 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>87.48</b>	<b>90.10</b>	<b>SLZN Summit Lake Zone</b>									
87.48 - 90.1: Strongly altered and foliated SLSZ. SXCC is the dominate vein type, however there are also local cc veins and sulfide stringers throughout the interval as well.											
<<Min: 87.48 - 90.1 5% Pyrite>>											

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

724

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 87.48 - 90.1 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 87.48 - 90.1 Strong (complete replacement, some primary QZ and textures) Sericite>>									
		<<Alt: 87.48 - 90.1 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 87.48 - 90.1 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 87.48 - 90.1 40% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >>									
		<<Struc: 87.48 - 90.1 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>90.10</b>	<b>90.40</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>90.40</b>	<b>91.99</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
		<<Min: 90.4 - 94 40% Pyrite>>									
		<<Alt: 90.4 - 94 Weak (partial crystal replacement) Silica>>									
		<<Alt: 90.4 - 94 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 90.4 - 94 Subtle (restricted to crystal margins, fractures) K-feldspar>>									
		<<Alt: 90.4 - 94 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Alt: 90.4 - 94 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 90.4 - 94 50% Composite sulphide + calcite (banded SX- and CC-dominant) 20 deg. >> local cb-qtz-sfx veins and sfx stringers found also									
		<<Struc: 90.4 - 94 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>91.99</b>	<b>92.17</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>92.17</b>	<b>94.00</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
<b>94.00</b>	<b>94.49</b>	<b>AND</b>	<b>Andesite</b>								
		<<Min: 94 - 101.96 5% Pyrite>> disseminated throughout the interval and locally in py stringers/ cb veinlets.									
		<<Alt: 94 - 101.96 Weak (partial crystal replacement) Silica>>									
		<<Alt: 94 - 101.96 Strong (complete replacement, some primary QZ and textures) Sericite>>									
		<<Alt: 94 - 101.96 Moderate (most crystals replaced, textural modification) Chlorite>>									
<b>94.49</b>	<b>95.25</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>95.25</b>	<b>96.13</b>	<b>AND</b>	<b>Andesite</b>								
<b>96.13</b>	<b>96.50</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>96.50</b>	<b>97.66</b>	<b>AND</b>	<b>Andesite</b>								
<b>97.66</b>	<b>98.27</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>98.27</b>	<b>100.71</b>	<b>AND</b>	<b>Andesite</b>								
<b>100.71</b>	<b>101.50</b>	<b>MISS</b>	<b>Missing Core</b>								



## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

724

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>101.50</b>	<b>105.16</b>	<b>AND Andesite</b>									
101.5 - 105.16: altered andesite with disseminated py											
<<Min: 101.5 - 105.16 5% Pyrite>>											
<<Alt: 101.5 - 105.16 Weak (partial crystal replacement) Silica>>											
<<Alt: 101.5 - 105.16 Strong (complete replacement, some primary QZ and textures) Sericite>>											
<<Alt: 101.5 - 105.16 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Struc: 101.5 - 105.16 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>105.16</b>	<b>105.46</b>	<b>MISS Missing Core</b>									
<b>105.46</b>	<b>106.07</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>106.07</b>	<b>106.38</b>	<b>AND Andesite</b>									
<<Alt: 106.07 - 106.38 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 106.07 - 106.38 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>106.38</b>	<b>107.02</b>	<b>MISS Missing Core</b>									
<b>107.02</b>	<b>108.02</b>	<b>AND Andesite</b>									
<<Alt: 107.02 - 108.02 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 107.02 - 108.02 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>108.02</b>	<b>108.45</b>	<b>MISS Missing Core</b>									
<b>108.45</b>	<b>110.03</b>	<b>DIA Diabase (fine-grained pale green "microdiorite" dikes)</b>									
108.45 - 110.03: Unsure which dyke this may be due to the core (crumbled).											
<b>110.03</b>	<b>113.54</b>	<b>DIO Diorite (FSP-phyric to porphyritic)</b>									
110.03 - 113.54: felds-phyric diorite and increases in chloritization towards the end of the interval.											
<<Alt: 111.71 - 113.54 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>113.54</b>	<b>113.84</b>	<b>MISS Missing Core</b>									
<b>113.84</b>	<b>118.57</b>	<b>AND Andesite</b>									
113.84 - 118.57: Moderately- to strong alteration with ~20% dissmeniated py throughout the unit. Locally foliated.											
<<Alt: 113.84 - 118.57 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 113.84 - 118.57 Moderate (most crystals replaced, textural modification) Sericite>>											

# GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**724**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 113.84 - 118.57		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Struc: 115.21 - 118.57		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>118.57</b>	<b>136.61</b>	<b>SLZN Summit Lake Zone</b>	121.31	122.13	0.82						
118.57 - 136.61: True intercept of the SLSZ near the end of the interval. Alteration, foliation, mineralization all increase towards the end of the interval.											
<<Min: 118.57 - 124.36		20% Pyrite>>	131.83	132.44	0.61						
<<Min: 124.36 - 130.45		35% Pyrite>>	134.72	135.51	0.79						
<<Min: 130.45 - 133.5		50% Pyrite>>									
<<Min: 130.45 - 133.5		5% Pyrrhotite>>									
<<Min: 133.5 - 136.61		70% Pyrite>>									
<<Min: 133.5 - 136.61		20% Pyrrhotite>>									
<<Alt: 118.57 - 124.36		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 118.57 - 124.36		Weak (partial crystal replacement) Silica>>									
<<Alt: 118.57 - 124.36		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 124.36 - 127.71		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 124.36 - 127.71		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 124.36 - 127.71		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 127.71 - 128.02		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 127.71 - 128.02		Weak (partial crystal replacement) Chlorite>>									
<<Alt: 127.71 - 128.02		Weak (partial crystal replacement) Silica>>									
<<Alt: 127.71 - 128.02		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Alt: 128.02 - 130.45		Moderate (most crystals replaced, textural modification) Carbonate>>									
<<Alt: 128.02 - 130.45		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 128.02 - 130.45		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 130.45 - 136.55		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 130.45 - 136.55		Moderate (most crystals replaced, textural modification) Carbonate>>									
<<Alt: 130.45 - 136.55		Intense (no primary minerals, textures mostly destroyed) Chlorite>>									
<<Vein: 118.57 - 124.66		30% Composite sulphide + calcite (banded SX- and CC-dominant) 30 deg. >>									
<<Vein: 124.66 - 133.5		60% Composite sulphide + calcite (banded SX- and CC-dominant) 32 deg. >>									
<<Vein: 133.5 - 136.55		80% Composite sulphide + calcite (banded SX- and CC-dominant) 25 deg. >>									
<<Struc: 122.41 - 122.71		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<<Struc: 123.6 - 124.42		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<<Struc: 128.02 - 128.32		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**724**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 129.69 - 131.06 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> <<Struc: 131.89 - 133.5 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>> <<Struc: 133.5 - 136.61 Intense (no primary minerals, textures mostly destroyed) Foliation (penetrative planar fabric)>>											
<b>End of Hole @ 144.17</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **725**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/29/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/29/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	7117.06	Stored?:	Yes	Claims Title:	
Local Northing:	2969.62	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	2933.56			Hole Completed?:	
Comments:			Proposed ID:	Parent Hole:	

Re-logging hole 725. Previous summaries of this hole labeled this drill "less exciting than hole 726", however, assays later showed that hole 725 had better grades and a longer interval. The purpose of re-logging this hole is to characterize and understand why hole 725 was in fact better than hole 726. Unfortunately the boxes containing the intercept are not with the core, either missing or taken away. The hole can be described as alternating weak to moderate expressions of the SLZN with strongly altered andesite as the two main lithologies. Noticable disseminated py and po was found disseminated throughout most of the core, regardless of foliations nor veins.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>6.00</b>	<b>AND Andesite</b>									
0 - 6: Weakly altered andesite											
<<Alt: 0 - 6 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 0 - 6 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 0 - 6 Weak (partial crystal replacement) Carbonate>>											
<<Alt: 2.01 - 94.64 Weak (partial crystal replacement) Carbonate>>											
<<Struc: 0.88 - 42.73 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>6.00</b>	<b>11.58</b>	<b>SLZN Summit Lake Zone</b>	6.07	7.01	0.94						
6 - 11.58: dominately qtz (but calcite is present as well) shear veins with local sulfide stringers perpendicular to foliation.											
<<Min: 6 - 11.58 20% Pyrite>>											
<<Min: 6 - 11.58 3% Pyrrhotite>>											
<<Alt: 6 - 11.58 Weak (partial crystal replacement) Silica>>											
<<Alt: 6 - 11.58 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 6 - 11.58 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 6 - 11.58 Subtle (restricted to crystal margins, fractures) Carbonate>>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **725**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Vein: 6 - 11.58 Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 40 deg. >> po is not great than py....									
		<<Struc: 6 - 11.58 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>11.58</b>	<b>16.00</b>	<b>AND Andesite</b>									
		<<Alt: 11.58 - 16 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 11.58 - 16 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 11.58 - 16 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<<Alt: 11.58 - 16 Subtle (restricted to crystal margins, fractures) Carbonate>>									
<b>16.00</b>	<b>18.53</b>	<b>SLZN Summit Lake Zone</b>									
		16 - 18.53: SLZN with some pottasic alteration.									
		<<Min: 16 - 18.53 10% Pyrite>>									
		<<Min: 16 - 18.53 3% Pyrrhotite>>									
		<<Alt: 16 - 18.53 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 16 - 18.53 Weak (partial crystal replacement) K-feldspar>>									
		<<Alt: 16 - 18.53 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Vein: 16 - 18.53 Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 40 deg. >>									
		<<Struc: 16 - 18.53 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>18.53</b>	<b>25.66</b>	<b>AND Andesite</b>									
		18.53 - 25.66: relatively unaltered andesite									
<b>25.66</b>	<b>28.65</b>	<b>SLZN Summit Lake Zone</b>									
		25.66 - 28.65: low angle cc veins with sulfides and qtz extensional veins overprinting the the cc veins.									
		<<Min: 25.66 - 28.65 10% Pyrite>>									
		<<Min: 25.66 - 28.65 1% Pyrrhotite>>									
		<<Alt: 25.66 - 28.65 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 25.66 - 28.65 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<<Alt: 25.66 - 28.65 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 25.66 - 28.65 Calcite-dominant (CAL > PY + PO + CHL + SER) 20 deg. >>									
		<<Struc: 25.66 - 28.65 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<b>28.65</b>	<b>31.36</b>	<b>AND Andesite</b>									
		<<Alt: 28.65 - 31.09 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 28.65 - 31.36 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 28.65 - 31.36 Subtle (restricted to crystal margins, fractures) Carbonate>>									

26.21	27.13	0.92
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# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **725**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>31.36</b>	<b>42.73</b>	<b>SLZN Summit Lake Zone</b>									
31.36 - 42.73: weaker expression of SLZN.											
<<Min: 31.36 - 42.73 15% Pyrite>>											
<<Min: 31.36 - 42.73 3% Pyrrhotite>>											
<<Alt: 31.36 - 42.73 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 31.36 - 42.73 Subtle (restricted to crystal margins, fractures) K-feldspar>>											
<<Alt: 31.36 - 42.73 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 31.36 - 42.73 Weak (partial crystal replacement) Carbonate>>											
<<Vein: 31.36 - 42.73 Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >>											
<b>42.73</b>	<b>56.94</b>	<b>AND Andesite</b>									
42.73 - 56.94: Altered andesite with disseminated py throughout the interval. Locally foliated											
<<Min: 42.73 - 56.94 5% Pyrite>> disseminated throughout the interval											
<<Alt: 42.73 - 56.94 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 42.73 - 56.94 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 42.73 - 56.94 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 42.73 - 56.94 Weak (partial crystal replacement) Carbonate>>											
<<Struc: 44.96 - 45.17 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>56.94</b>	<b>71.48</b>	<b>MISS Missing Core</b>									
<b>71.48</b>	<b>78.55</b>	<b>AND Andesite</b>									
71.48 - 78.55: Altered andesite with disseminated pyrite. Locally foliated with ~10% py.											
<<Min: 71.48 - 78.33 5% Pyrite>>											
<<Min: 71.48 - 78.55 5% Pyrite>>											
<<Alt: 71.48 - 78.55 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 71.48 - 78.55 Strong (complete replacement, some primary QZ and textures) Chlorite>>											
<<Alt: 71.48 - 78.55 Weak (partial crystal replacement) Carbonate>>											
<<Struc: 71.48 - 71.87 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<<Struc: 74.52 - 75.29 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>78.55</b>	<b>85.59</b>	<b>MISS Missing Core</b>									
<b>85.59</b>	<b>93.45</b>	<b>AND Andesite</b>									
85.59 - 93.45: altered andesite with disseminated py and locally foliated.											
<<Min: 85.59 - 93.45 1% Pyrrhotite>>											

74.52	75.29	0.77
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# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **725**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 85.59 - 93.45 Weak (partial crystal replacement) Silica>>									
		<<Alt: 85.59 - 93.45 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 85.59 - 93.45 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Struc: 87.97 - 88.76 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<<Struc: 92.11 - 93.45 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
		<b>93.45 94.64 SLZN Summit Lake Zone</b>									
		<<Min: 93.45 - 94.64 5% Pyrite>>									
		<<Min: 93.45 - 94.64 1% Pyrrhotite>>									
		<<Alt: 93.45 - 94.64 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 93.45 - 94.64 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Vein: 93.45 - 94.64 Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 57 deg. >>									
		<<Struc: 93.45 - 94.64 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<b>94.64 102.47 AND Andesite</b>									
		94.64 - 102.47: Altered andesite with local qtz-extensional veins and disseminated sulfides throughout the interval.									
		<<Min: 94.64 - 102.47 3% Pyrite>>									
		<<Min: 94.64 - 102.47 1% Pyrrhotite>>									
		<<Alt: 94.64 - 102.47 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 94.64 - 102.47 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 94.64 - 102.47 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<b>102.47 104.85 SLZN Summit Lake Zone</b>									
		102.47 - 104.85: Weak expression of the SLZN. Cc domianted veins with sulfides present in the interval									
		<<Min: 102.47 - 104.85 5% Pyrite>>									
		<<Min: 102.47 - 104.85 1% Pyrrhotite>>									
		<<Alt: 102.47 - 104.85 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 102.47 - 104.85 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Alt: 102.47 - 104.85 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 102.47 - 104.85 Calcite-dominant (CAL > PY + PO + CHL + SER) 60 deg. >>									
		<<Struc: 102.47 - 104.85 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<b>104.85 110.95 AND Andesite</b>									
		104.85 - 110.95: Altered andesite with variable amounts of py, concentrated around the foliation.									
		<<Min: 104.85 - 110.95 5% Pyrite>>	109.12	109.94	0.82						
		<<Min: 104.85 - 110.95 1% Pyrrhotite>>	109.95	110.34	0.39						

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**725**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 104.85 - 110.95 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 104.85 - 110.95 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 104.85 - 110.95 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 104.85 - 110.95 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Struc: 109.12 - 110.34 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>End of Hole @ 110.95</b>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **726**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/16/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/16/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	7118.66	Stored?:	Yes	Claims Title:	
Local Northing:	2969.42	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	292.83			Hole Completed?:	
Comments:			Proposed ID:	Parent Hole:	

Multiple zones identified with strong chl-ser alteration associated with sulfides. Foliation and alteration were both gradation in terms of intensity. 3 shoulder samples were taken near the highest intercept (1.22 oz/ton).

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>0.79</b>	<b>AND Andesite</b>									
<b>0.79</b>	<b>1.10</b>	<b>SLZN Summit Lake Zone</b>									
<p>0.79 - 1.1: Small interval. Lightly foliated. Chlorite altered. Minor py and po.</p> <p>&lt;&lt;Min: 0.79 - 1.1 4% Pyrite&gt;&gt;</p> <p>&lt;&lt;Min: 0.79 - 1.1 4% Pyrrhotite&gt;&gt;</p> <p>&lt;&lt;Vein: 0.79 - 1.1 30% Composite sulphide + calcite (banded SX- and CC-dominant) 44 deg. &gt;&gt;</p> <p>&lt;&lt;Struc: 0.79 - 1.1 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>1.10</b>	<b>1.13</b>	<b>AND Andesite</b>									
<b>1.13</b>	<b>17.07</b>	<b>SLZN Summit Lake Zone</b>									
<p>1.13 - 17.07: SLZN. Intensity in veining varies from stong to weak but does not warrant a lithological break. Gradational intensity in both alteration and foliation near the ends. Multiple vein sets are found (qtz, qtz-chl-cb-ser, cb-sfx). Dominate vein type recorded is the qtz-chl-cb-ser veinds. Qtz extensional veins present. Foliation roughly parallel to the main veins. Py locally appears to look "buckshot" like py.</p> <p>&lt;&lt;Min: 1.13 - 17.07 3% Sphalerite&gt;&gt; local sphalerite occurrences</p> <p>&lt;&lt;Min: 1.13 - 17.07 25% Pyrite&gt;&gt; pyrite found either as recrystallized or disseminated. Locally found as "buckshot"</p> <p>&lt;&lt;Min: 1.13 - 17.07 15% Pyrrhotite&gt;&gt; magnetic po locally found</p> <p>&lt;&lt;Alt: 1.13 - 17.07 Moderate (most crystals replaced, textural modification) Sericite&gt;&gt;</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 1.13 - 17.07 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 1.13 - 17.07 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 1.13 - 17.07 70% Composite sulphide + calcite (banded SX- and CC-dominant) 32 deg. >> Multiple veins sets are found including qtz-cb-chl-ser,-sfx qtz-cb, qtz-extentional, and sfx-cb. The dominate vein type is the qtz-cb-chl-ser-sfx. Vein density decreases towards the lithological breaks.									
		<<Struc: 1.13 - 17.07 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> slightly oblique foliation to the veins tca. Foliation intensity is strongest in the centre of the interval and decreases intensity towards the ends of the lithological breaks.									
		<b>17.07 18.23 AND Andesite</b>									
		17.07 - 18.23: local qtz-cb veins									
		<b>18.23 18.96 SLZN Summit Lake Zone</b>									
		18.23 - 18.96: qtz-cb-sfx vein +qtz vein. Minor sulfides (py +/- po, sph). Chl and ser alteration.									
		<<Min: 18.23 - 18.96 1% Sphalerite>>									
		<<Min: 18.23 - 18.96 5% Pyrite>>									
		<<Min: 18.23 - 18.96 1% Pyrrhotite>>									
		<<Alt: 18.23 - 18.96 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 18.23 - 18.96 Weak (partial crystal replacement) Chlorite>>									
		<<Vein: 18.23 - 18.96 40% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 40 deg. >>									
		<b>18.96 20.88 AND Andesite</b>									
		<<Struc: 20.29 - 21.84 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<b>20.88 22.10 SLZN Summit Lake Zone</b>									
		20.88 - 22.1: Disseminated sulfides throughout, not just in veins. Qtz-cb-ser-sfx dominate vein type with local qtz veins cross-cutting. Strong sericitic alteration, however, not a lot of sulfides present in the interval.									
		<<Min: 20.88 - 22.1 5% Pyrite>>									
		<<Min: 20.88 - 22.1 5% Pyrrhotite>>									
		<<Alt: 20.88 - 22.1 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 20.88 - 22.1 Strong (complete replacement, some primary QZ and textures) Sericite>>									
		<<Vein: 20.88 - 22.1 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 30 deg. >> dominate cb-ser qtz veins with po,py									
		<b>22.10 22.71 AND Andesite</b>									
		<b>22.71 24.20 SLZN Summit Lake Zone</b>									
		22.71 - 24.2: dominately cb-ser veins with local sulfide stringers. Weakly foliated near the sulfide stringers.									
		<<Min: 22.71 - 24.2 3% Pyrite>>									

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

726

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<p>&lt;&lt;Alt: 22.71 - 24.2 Subtle (restricted to crystal margins, fractures) Silica&gt;&gt;            &lt;&lt;Alt: 22.71 - 24.2 Moderate (most crystals replaced, textural modification) Sericite&gt;&gt;            &lt;&lt;Vein: 22.71 - 24.2 20% Calcite-dominant (CAL &gt; PY + PO + CHL + SER) 38 deg. &gt;&gt;</p>											
<b>24.20</b>	<b>28.41</b>	<b>AND</b>	<b>Andesite</b>								
<b>28.41</b>	<b>28.86</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
<p>&lt;&lt;Min: 28.41 - 28.86 1% Pyrite&gt;&gt;            &lt;&lt;Alt: 28.41 - 28.86 Moderate (most crystals replaced, textural modification) Sericite&gt;&gt;            &lt;&lt;Vein: 28.41 - 28.86 10% Sulphide +/- quartz vein (PO &gt; PY +/- QTZ +/- CHL) 60 deg. &gt;&gt;</p>											
<b>28.86</b>	<b>30.33</b>	<b>AND</b>	<b>Andesite</b>								
<b>30.33</b>	<b>30.66</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
<p>30.33 - 30.66: dominately py stringer veins. No foliation</p>											
<p>&lt;&lt;Min: 30.33 - 30.66 2% Pyrite&gt;&gt;            &lt;&lt;Alt: 30.33 - 30.66 Subtle (restricted to crystal margins, fractures) Chlorite&gt;&gt;            &lt;&lt;Vein: 30.33 - 30.66 8% Other veins (describe in Comments) 20 deg. &gt;&gt; sulfide stringers. Only pyrite stringers</p>											
<b>30.66</b>	<b>33.16</b>	<b>AND</b>	<b>Andesite</b>								
<b>33.16</b>	<b>36.58</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
<p>33.16 - 36.58: small (&lt;30cm) local dykes cutting through containing ~2% disseminated sulfides. Dominate veins are the qtz-cb-chl-sfx veins. Local sections contain up to 80% sulfides.(py+po). Moderate foliation where sulfide concentration is the highest (110.7-112.1)</p>											
<p>&lt;&lt;Alt: 33.16 - 36.58 Subtle (restricted to crystal margins, fractures) Chlorite&gt;&gt;            &lt;&lt;Alt: 33.16 - 36.58 Moderate (most crystals replaced, textural modification) Carbonate&gt;&gt;            &lt;&lt;Vein: 33.16 - 36.58 20% Composite sulphide + calcite (banded SX- and CC-dominant) 37 deg. &gt;&gt;</p>											
<b>36.58</b>	<b>38.74</b>	<b>AND</b>	<b>Andesite</b>								
<b>38.74</b>	<b>39.62</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
<p>&lt;&lt;Min: 38.74 - 39.62 5% Pyrite&gt;&gt;            &lt;&lt;Alt: 38.74 - 39.62 Weak (partial crystal replacement) Sericite&gt;&gt;            &lt;&lt;Alt: 38.74 - 39.62 Subtle (restricted to crystal margins, fractures) Chlorite&gt;&gt;            &lt;&lt;Alt: 38.74 - 39.62 Subtle (restricted to crystal margins, fractures) Carbonate&gt;&gt;            &lt;&lt;Vein: 38.74 - 39.62 40% Calcite-dominant (CAL &gt; PY + PO + CHL + SER) 70 deg. &gt;&gt; cb-ser-chl-sfx +-qtz veins            &lt;&lt;Struc: 38.74 - 39.62 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;            Foliation slightly oblique to veins.</p>											

## GeoSpark Logger ~ Drill Log

**Project:**
**Scottie Gold**
**Hole Number:**
**726**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>39.62</b>	<b>43.34</b>	<b>AND Andesite</b>									
39.62 - 43.34: Calcite veins with <1% py are locally present. No foliation present.											
<b>43.34</b>	<b>46.33</b>	<b>SLZN Summit Lake Zone</b>	46.02	46.33	0.31						
<<Min: 43.34 - 46.33 30% Pyrite>>											
<<Min: 43.34 - 46.33 2% Pyrrhotite>>											
<<Alt: 43.34 - 46.33 Weak (partial crystal replacement) Sericite>>											
<<Alt: 43.34 - 46.33 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 43.34 - 46.33 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Vein: 43.34 - 46.33 25% Composite sulphide + calcite (banded SX- and CC-dominant) 42 deg. >> dominately cb-ser-chl-cb-sfx veins											
<<Struc: 43.34 - 46.33 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> Foliation parallel to veins											
<b>46.33</b>	<b>46.88</b>	<b>AND Andesite</b>	46.33	46.63	0.30						
<b>46.88</b>	<b>57.30</b>	<b>SLZN Summit Lake Zone</b>	47.18	47.67	0.49						
46.88 - 57.3: SLSZ with strong chlorite/sericite alteration. Disseminated sulfides throuout the core. Foliation varies frm subtle to moderate.											
<<Min: 46.88 - 50.02 30% Pyrite>> found both in veins and disseminated throughout the interval											
<<Min: 46.88 - 50.02 10% Pyrrhotite>>											
<<Alt: 46.88 - 50.02 Strong (complete replacement, some primary QZ and textures) Sericite>>											
<<Alt: 46.88 - 50.02 Intense (no primary minerals, textures mostly desctroyed) Chlorite>>											
<<Alt: 46.88 - 50.02 Weak (partial crystal replacement) Carbonate>>											
<<Vein: 46.88 - 50.02 50% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >> chl-cb-sfx veins dominately present with locally chlorite dominate veins. Sulfide stringer/veins locally present.											
<<Struc: 46.88 - 50.02 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>57.30</b>	<b>57.94</b>	<b>AND Andesite</b>									
<b>57.94</b>	<b>65.29</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 57.94 - 65.29 20% Pyrite>>											
<<Alt: 57.94 - 65.29 Weak (partial crystal replacement) Sericite>>											
<<Alt: 57.94 - 65.29 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Vein: 57.94 - 65.29 28% Calcite-dominant (CAL > PY + PO + CHL + SER) 70 deg. >> Vein denisty varies in interval with the highest density between 210 and 211 ft. Veins primarily cb-chl-ser-sfx. Sfx-cb and qtz extensional veins locally present as well as sulfide stringers											
<<Struc: 62.18 - 64.31 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											



## GeoSpark Logger ~ Drill Log

**Project:**
**Scottie Gold**
**Hole Number:**
**726**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>65.29</b>	<b>66.57</b>	<b>AND Andesite</b>									
<b>66.57</b>	<b>70.74</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 66.57 - 71.66 15% Pyrite>> Py found along veins as well as disseminated throughout interval <<Alt: 66.57 - 71.66 Strong (complete replacement, some primary QZ and textures) Sericite>> <<Alt: 66.57 - 71.66 Weak (partial crystal replacement) Chlorite>> <<Vein: 66.57 - 71.66 35% Calcite-dominant (CAL > PY + PO + CHL + SER) 65 deg. >> dominately qtz-chl-ser-sfx veins with later stage qtz veins cross-cutting the former veins.											
<b>70.74</b>	<b>72.69</b>	<b>AND Andesite</b>									
<b>72.69</b>	<b>77.60</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 72.69 - 77.6 5% Pyrite>> <<Alt: 72.69 - 77.6 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 72.69 - 77.6 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 72.69 - 77.6 Weak (partial crystal replacement) Carbonate>> <<Vein: 72.69 - 77.6 50% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> Dominately cb-chl-ser-sfx veins. Not a lot of sulfides present but heavily foliated <<Struc: 72.69 - 77.6 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>											
<b>77.60</b>	<b>80.38</b>	<b>AND Andesite</b>									
<b>80.38</b>	<b>81.75</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 80.38 - 81.75 2% Pyrite>> <<Alt: 80.38 - 81.75 Weak (partial crystal replacement) Silica>> <<Alt: 80.38 - 81.75 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 80.38 - 81.75 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Vein: 80.38 - 81.75 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 42 deg. >> Dominately cb-ser-chl veins with minor sulfides and qtz veins cross-cutting the former.											
<b>81.75</b>	<b>82.45</b>	<b>AND Andesite</b>									
<b>82.45</b>	<b>85.04</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 82.45 - 85.04 2% Pyrite>> <<Alt: 82.45 - 85.04 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 82.45 - 85.04 Chlorite>> <<Vein: 82.45 - 85.04 15% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >> dominantly sulfide stringers with minor amounts of carbonate. Late stage qtz-extensional veins are also present, cross-cutting the former veins. <<Struc: 82.45 - 85.04 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

726

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>85.04</b>	<b>85.65</b>	<b>AND</b>									
		<b>Andesite</b>									
<b>85.65</b>	<b>87.54</b>	<b>SLZN</b>									
		<b>Summit Lake Zone</b>									
<<Min: 85.65 - 87.54 5% Pyrite>> <<Alt: 85.65 - 87.54 Weak (partial crystal replacement) Sericite>> <<Alt: 85.65 - 87.54 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Vein: 85.65 - 87.54 25% Calcite-dominant (CAL > PY + PO + CHL + SER) 60 deg. >>											
<b>87.54</b>	<b>94.34</b>	<b>AND</b>									
		<b>Andesite</b>									
87.54 - 94.34: Extensional qtz, and carbonate fracture veins sets locally present.											
<b>94.34</b>	<b>97.54</b>	<b>SLZN</b>									
		<b>Summit Lake Zone</b>									
<<Min: 94.34 - 97.54 15% Pyrite>> <<Alt: 94.34 - 97.54 Weak (partial crystal replacement) Sericite>> <<Alt: 94.34 - 97.54 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 94.34 - 97.54 40% Calcite-dominant (CAL > PY + PO + CHL + SER) 50 deg. >> Cb-ser--chl veins with sulfides are dominately present. Echelon extensional qtz veins locally present.											
<b>97.54</b>	<b>98.91</b>	<b>LMP</b>									
		<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>98.91</b>	<b>105.16</b>	<b>AND</b>									
		<b>Andesite</b>									
<b>105.16</b>	<b>106.44</b>	<b>SLZN</b>									
		<b>Summit Lake Zone</b>									
<<Alt: 105.16 - 106.44 Moderate (most crystals replaced, textural modification) Silica>> <<Vein: 105.16 - 106.44 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 30 deg. >> no sulfides apparent in the veins. Dominately carbonate veins with minor amounts of sericite. Late stage extensional quartz veins locally present.											
<b>106.44</b>	<b>109.73</b>	<b>AND</b>									
		<b>Andesite</b>									
<b>End of Hole @ 109.73</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **729**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/23/2018	
UTM Easting:		Core Size:	Azimuth:	221.6	Date Logging Complete:	8/24/2018
UTM Northing:		Casing Pulled?:	Dip:	-37.7	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	51.82	Drill Rig:	
Local Easting:	6863.21	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3212.2	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	2981.89			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Relogging hole 729. Notable high Au intercept is between ~ 93-96 ft at over 1 oz/tn. Hole's lithology starts with predominately andesite with local intervals of lamprophyre dykes. Chloritization increases towards mineralization where massive py-po occurs. Altered andesite intervals do not reveal may veins, however disseminated py-po would be throughout those intervals.

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>2.77</b>	<b>AND Andesite</b> <<Alt: 0 - 2.77 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 0 - 2.77 Subtle (restricted to crystal margins, fractures) Chlorite>>									
<b>2.77</b>	<b>4.87</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b> <<Min: 4.82 - 22.46 3% Pyrite>> <<Min: 4.82 - 22.46 3% Pyrrhotite>> <<Alt: 4.82 - 22.46 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 4.82 - 22.49 Subtle (restricted to crystal margins, fractures) Sericite>> <<Struc: 4.82 - 22.46 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<b>4.87</b>	<b>22.46</b>	<b>AND Andesite</b> 4.87 - 22.46: Chloritized andesite with disseminated py-po throughout the unit and local py stringers.									
<b>22.46</b>	<b>28.41</b>	<b>AND Andesite</b> <<Min: 22.46 - 28.41 10% Pyrite>> disseminated throughout <<Min: 22.46 - 28.41 5% Pyrrhotite>> <<Alt: 22.46 - 28.41 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 22.46 - 28.41 Moderate (most crystals replaced, textural modification) Sericite>>									

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **729**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 22.46 - 28.41		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 22.46 - 28.41		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Struc: 22.46 - 28.41		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>28.41</b>	<b>37.64</b>	<b>SLZN Summit Lake Zone</b>	28.41	29.02	0.61						
<<Min: 28.41 - 29.02		60% Pyrite>>	31.30	32.22	0.92						
<<Min: 28.41 - 29.02		30% Pyrrhotite>>									
<<Min: 28.41 - 29.02		10% Arsenopyrite>>									
<<Min: 29.02 - 38.86		50% Pyrite>>									
<<Min: 29.02 - 38.86		30% Pyrrhotite>>									
<<Alt: 28.41 - 29.02		Weak (partial crystal replacement) Silica>>									
<<Alt: 28.41 - 29.02		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 28.41 - 29.02		Intense (no primary minerals, textures mostly desctroyed) Chlorite>>									
<<Alt: 28.41 - 29.02		Moderate (most crystals replaced, textural modification) Carbonate>>									
<<Alt: 29.02 - 38.83		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 29.02 - 38.86		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 29.02 - 38.86		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 29.02 - 38.86		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Vein: 28.41 - 29.02		100% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >>									
<<Vein: 29.02 - 32.52		50% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >>									
<<Vein: 32.52 - 32.83		100% Composite sulphide + calcite (banded SX- and CC-dominant) 50 deg. >>									
<<Struc: 28.41 - 29.02		Intense (no primary minerals, textures mostly desctroyed) Foliation (penetrative planar fabric)>>									
<<Struc: 29.02 - 32.52		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<<Struc: 32.52 - 32.83		Intense (no primary minerals, textures mostly desctroyed) Foliation (penetrative planar fabric)>>									
<<Struc: 32.83 - 37.64		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>37.64</b>	<b>38.83</b>	<b>AND Andesite</b>									
<b>38.83</b>	<b>40.84</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>40.84</b>	<b>48.13</b>	<b>SLZN Summit Lake Zone</b>	46.51	47.85	1.34						
<<Min: 40.84 - 48.13		40% Pyrite>>									
<<Min: 40.84 - 48.13		20% Pyrrhotite>>									
<<Alt: 40.84 - 48.13		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 40.84 - 48.13		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 40.84 - 48.13		Moderate (most crystals replaced, textural modification) Carbonate>>									

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**729**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Vein: 40.84 - 48.13 60% Composite sulphide + calcite (banded SX- and CC-dominant) 28 deg. >> <<Struc: 40.84 - 41.15 Moderate (most crystals replaced, textural modification) Brittle fault gouge>> <<Struc: 40.84 - 48.13 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>											
<b>48.13</b>	<b>49.07</b>	<b>LMP</b>	<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>								
<b>49.07</b>	<b>50.81</b>	<b>AND</b>	<b>Andesite</b>								
<<Alt: 49.07 - 50.81 Weak (partial crystal replacement) Sericite>> <<Alt: 49.07 - 50.81 Weak (partial crystal replacement) Chlorite>> <<Alt: 49.07 - 50.81 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Struc: 49.99 - 50.81 Weak (partial crystal replacement) Brittle fault gouge>>											
<b>50.81</b>	<b>51.82</b>	<b>LMP</b>	<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>								
<<Struc: 51.21 - 51.82 Weak (partial crystal replacement) Brittle fault gouge>>											
<b>End of Hole @ 51.82</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **731**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Thomas Mumford	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/20/2018	
UTM Easting:		Core Size:	Azimuth:	226.8	Date Logging Complete:	8/20/2018
UTM Northing:		Casing Pulled?:	Dip:	-51.6	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	103.63	Drill Rig:	
Local Easting:	6889.16	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3269.17	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	2997.81			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Relogging of 731- Hole collared into a 20m interval of lamprophyre, which is hosted in a massive to lapilli-rich andesite. The andesite also hosts four notable Summit Lake zones which are weak to moderately developed. Missing original box 14 (297.7-320.5ft).

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>19.66</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
0 - 19.66: lamprophyre dyke, medium grey, two main mafic phenos, both black and ~1-2mm in size, one is elongate laths (amphibole?) the other blocky grains (cpx?)											
<b>19.66</b>	<b>31.36</b>	<b>AND Andesite</b>									
19.66 - 31.36: grey green andesite, fine-grained, fairly massive - lapilli poor zone, minor calcite veining											
<<Alt: 24.41 - 27.74 Subtle (restricted to crystal margins, fractures) Calcite>> patchy calcite alteration											
<b>31.36</b>	<b>32.25</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
31.36 - 32.25: fine-medium grained lamprophyre											
<b>32.25</b>	<b>50.32</b>	<b>AND Andesite</b>									
32.25 - 50.32: grey green fine-grained andesite, fairly massive, lapilli poor, cut by small late calcite veins											
<<Min: 32.4 - 35.05 1% Pyrite>> py disseminated, and locally occurring as blebs along small veins											
<<Alt: 50.23 - 54.07 Moderate (most crystals replaced, textural modification) Silica>> pervasive silica alteration											
<<Vein: 35.27 - 35.51 80% Other veins (describe in Comments) 40 deg. >> quartz calcite vein, weakly sheared, mineralized py											



## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**731**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<p>&lt;&lt;Vein: 39.62 - 48.77 5% Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 45 deg. &gt;&gt; extensional qtz -carb veins, up to 2cm wide, but most are &lt;0.5cm, some are just calcite veins</p>											
<b>50.32</b>	<b>52.64</b>	<b>SLZN Summit Lake Zone</b>	51.82	52.64	0.82						
<p>50.32 - 52.64: short interval of SLZN, moderate sericite, silica and calcite alteration, moderate foliation development, and sulphide (py&gt;po)+qtz+cal veins</p>											
<p>&lt;&lt;Min: 50.32 - 52.64 5% Pyrite&gt;&gt; py associated with sheared veins, local concentrations &gt;12% but average 5% over the interval</p>											
<p>&lt;&lt;Min: 50.32 - 52.64 0.5% Pyrrhotite&gt;&gt; trace po in zones of high py concentrations</p>											
<p>&lt;&lt;Alt: 50.32 - 52.46 Weak (partial crystal replacement) Sericite&gt;&gt; patchy sericite alteration, concentrated along shear bands</p>											
<p>&lt;&lt;Vein: 50.32 - 52.64 30% Composite sulphide + calcite (banded SX- and CC-dominant) 50 deg. &gt;&gt; variable TCA in shearing: 18 - 80, mixture of veins, the most prominent being py&gt;po + qtz cal, but a few late calcite veins also occur</p>											
<p>&lt;&lt;Struc: 50.32 - 52.64 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt; shear banding in veined interval of SLZN</p>											
<b>52.64</b>	<b>56.75</b>	<b>AND Andesite</b>									
<p>52.64 - 56.75: grey green andesite, fine-grained, lapilli-rich</p>											
<b>56.75</b>	<b>72.27</b>	<b>SLZN Summit Lake Zone</b>	58.86	59.77	0.91						
<p>56.75 - 72.27: interval of weak to moderately developed SLZN, somewhat patchy in terms of foliation development locally primary andesite textures are preserved. Missing significant sections of rock due to storage issues (particularly 195 - 237 - unsystemically missing upwards of 25% of interval).</p>											
<p>&lt;&lt;Min: 56.75 - 63.09 4% Pyrite&gt;&gt; py occur as medium-grained disseminations, and as bands in sheared intervals</p>											
<p>&lt;&lt;Min: 63.09 - 65.44 2% Pyrite&gt;&gt; py occurs a medium-grained disseminations, locally follow define the foliation</p>											
<p>&lt;&lt;Min: 65.44 - 72.27 5% Pyrite&gt;&gt; disseminated and banded fine-grained py associated with moderately sheared intervals</p>											
<p>&lt;&lt;Alt: 56.75 - 62.39 Moderate (most crystals replaced, textural modification) Sericite&gt;&gt; patchy sericite alteration focused in zones of increased shear intensity, moderate to strong</p>											
<p>&lt;&lt;Alt: 56.75 - 62.39 Weak (partial crystal replacement) Chlorite&gt;&gt; localized chlorite alteration along shear bands</p>											
<p>&lt;&lt;Alt: 56.75 - 72.27 Weak (partial crystal replacement) Silica&gt;&gt; pervasive weak silica alteration, locally moderate to strong sounding shear veins (qtz flooding)</p>											
<p>&lt;&lt;Alt: 68.28 - 72.27 Weak (partial crystal replacement) Sericite&gt;&gt; patchy sericite alteration, focused in areas of shearing - qtz flooding seems to inhibit its formation</p>											
<p>&lt;&lt;Vein: 56.75 - 72.27 20% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. &gt;&gt; SLZN - heterogenous vein population, varying from sulphide dominant shear veins to small extensional calcite veins.</p>											
<p>&lt;&lt;Vein: 64.5 - 102.9 2% Other veins (describe in Comments) 77 deg. &gt;&gt; set of thin extensional calcite veins</p>											
<p>&lt;&lt;Struc: 56.75 - 60.87 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt; moderately to strongly sheared veins and fabric in andesite</p>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**731**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Struc: 68.28 - 70.71 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> shear fabric developed in SLZN									
<b>72.27</b>	<b>73.09</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
72.27 - 73.09: light to medium grey, fine-grained mafi dyke - lamprophyre?											
		<<Min: 72.82 - 79.22 0.5% Pyrrhotite>> trace non-magenetic pyrrhotite associated with high py concentrations									
		<<Alt: 72.82 - 84.12 Moderate (most crystals replaced, textural modification) Sericite>> moderate to weak sericite alteration - generally pervasive but locally patchy, extends away from SLZN in host andesite									
<b>73.09</b>	<b>77.08</b>	<b>SLZN Summit Lake Zone</b>									
73.09 - 77.08: weak to moderately developed SLZN, small intervals of sulphide dominant veins. Missing up to 40% of interval between 247.9 and 252.9 ft.											
		<<Min: 73.09 - 77.08 5% Pyrite>> large missing sections o interval, but what remains includes banded fine-grained py and disseminated medium-grained py									
		<<Alt: 73.09 - 82.6 Weak (partial crystal replacement) Silica>> pervasive silica alteration									
		<<Vein: 73.09 - 77.08 10% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >> missing large section of veined material, remaining fragments indicate a sheared sulphide rich vein, remainder of interval contains calc + py veins									
		<<Struc: 73.09 - 77.08 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>> weakly developed shear fabric in SLZN, best observed in calcite veins									
		<<Struc: 75.53 - 75.65 Moderate (most crystals replaced, textural modification) Brittle fault gouge>> short interval of rock chips in a remaining matrix of clay - interpreted as a fault zone									
<b>77.08</b>	<b>85.28</b>	<b>AND Andesite</b>									
77.08 - 85.28: grey green altered andesite, likely affected by the SLZN. Foliation isn't well pronouced , but can be noted short localized intervals											
		<<Min: 79.22 - 79.22 3% Pyrite>> fine-grained py occurs as thin stringers and disseminations									
		<<Alt: 84.12 - 90.74 Weak (partial crystal replacement) Sericite>> weak to moderate sericite alteration, largely pervasive, locally patchy									
		<<Alt: 84.8 - 90.74 Moderate (most crystals replaced, textural modification) Silica>> moderate pervasive silicification, locally texturally destructive									
<b>85.28</b>	<b>85.88</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
85.28 - 85.88: light-medium grey mafic dyke, aphanitic groundmass, black fg phenos, lamp?											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**731**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>85.88</b>	<b>90.74</b>	<b>SLZN Summit Lake Zone</b>									
<p>85.88 - 90.74: weakly developed SLZN, mod-strong pervasive silicification (locally texturally destructive), py+po mineralized, sericite altered</p> <p>&lt;&lt;Min: 85.88 - 103.63 5% Pyrite&gt;&gt; pyrite occurs as bands in shear veins, stringers, fracture filling, and as disseminations. Heterogenous distribution and morphology</p> <p>&lt;&lt;Min: 85.88 - 103.63 1% Pyrrhotite&gt;&gt; pyrrhotite occurs as med-coarse blebs associated with bands and fracture filling py</p> <p>&lt;&lt;Alt: 85.88 - 90.74 Moderate (most crystals replaced, textural modification) Calcite&gt;&gt; pervasive, locally patchy</p> <p>&lt;&lt;Vein: 85.88 - 103.63 5% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. &gt;&gt; heterogenous distribution, style, and morphology of veining in SLZN - sulfide-qtz veins, brittle py/po veins, calcite py veins. The strongest sheared veins are sulphide + cal veins +/-chlorite alteration (and unknown mat of fg dark mineral)</p>											
<b>90.74</b>	<b>97.69</b>	<b>MISS Missing Core</b>									
<p>90.74 - 97.69: Missing original core box 14</p>											
<b>97.69</b>	<b>103.63</b>	<b>SLZN Summit Lake Zone</b>	98.51	99.27	0.76						
<p>97.69 - 103.63: SLZN, weak to moderately developed SLZN, veined, altered, sheared and mineralized (py&gt;po)</p> <p>&lt;&lt;Alt: 97.69 - 103.17 Weak (partial crystal replacement) Chlorite&gt;&gt; patchy chlorite alteration, irregularly associated with shear bands and veining</p> <p>&lt;&lt;Alt: 97.69 - 103.63 Moderate (most crystals replaced, textural modification) Silica&gt;&gt; pervasive silicification</p> <p>&lt;&lt;Alt: 97.69 - 103.63 Moderate (most crystals replaced, textural modification) Calcite&gt;&gt; pervasive calcite alteration</p> <p>&lt;&lt;Struc: 98.45 - 99.97 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt; shear banding fabric in veins and host rock within SLZN</p>											
<b>End of Hole @ 103.63</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **732**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Thomas Mumford	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/19/2018	
UTM Easting:		Core Size:	Azimuth:	230.4	Date Logging Complete:	8/19/2018
UTM Northing:		Casing Pulled?:	Dip:	-60.2	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	115.82	Drill Rig:	
Local Easting:	6889.64	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3269.73	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	2998.25			Hole Completed?:		Purpose:
Comments:				Proposed ID:		Parent Hole:

Relogging of 732 - Hole collared into lamprophyre, the upper 200 ft consists of andesite hosting several sizable lamprophyre dykes. Beneath the lamprophyre at 209 feet the andesite exhibits features consistent with weakly developed SLZN and gradational transitions to massive andesite hosting a lamprophyre. The lower 100 ft (283 - 380ft) are SLZN, which consists of a halo of weakly veined, foliated, altered andesite surrounding a central well developed interval of SLZN (348-365ft)

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>9.97</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
0 - 9.97: variable textured lamprophyre dyke - multiphase											
<b>9.97</b>	<b>10.85</b>	<b>AND Andesite</b>									
9.97 - 10.85: grey andesite, heterogenous,											
<b>10.85</b>	<b>11.22</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
10.85 - 11.22: small lamprophyre with chill margins											
<b>11.22</b>	<b>29.47</b>	<b>AND Andesite</b>									
11.22 - 29.47: grey andesite, heterogenous interval of volcanics, lapilli to more massive flows, cal extensional vein, unfoliated											
<<Min: 11.22 - 29.47 0.5% Pyrite>> highly variable distribution and morphology of py, largely as very fine-grained disseminations, but also as rare thin veins, and assoaited with extensional calcite veins											
<<Vein: 11.22 - 21.34 Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 45 deg. >> thin calcite +/- qtz extensional veins, irrgeular orientations, laregely barren											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **732**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>29.47</b>	<b>35.14</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b> 29.47 - 35.14: fine to medium grained spheriolic lamprophyre,, multiphase, qunech margins									
<b>35.14</b>	<b>41.30</b>	<b>AND Andesite</b> 35.14 - 41.3: grey andesite, heterogenous, late extensional calcite veins, unfoliated, rare lapilli									
<b>41.30</b>	<b>47.61</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b> 41.3 - 47.61: fine- to medium grained lamprophyre, spheriolic (calcite)	42.15	42.67	0.52						
<b>47.61</b>	<b>63.86</b>	<b>AND Andesite</b> 47.61 - 63.86: very heterogenous grey andesite with small banded veins, could be an expression of the SLZN but is too subtle to be sure, and lacks foliation in host rock  <<Min: 49.9 - 51.94 2% Pyrite>> pyrite in stringers and disseminations <<Min: 52.49 - 53.25 0.5% Pyrite>> disseminated pyrite <<Min: 56.24 - 56.88 2% Pyrite>> banded py associated with vein <<Alt: 49.93 - 52.73 Sericite>> patchy sericite alteration associated concentrated along margins of veins, but disseminated throughout <<Alt: 49.93 - 52.73 Moderate (most crystals replaced, textural modification) Calcite>> moderate pervasive calcite alteration <<Alt: 49.93 - 79.37 Weak (partial crystal replacement) Silica>> weak to moderate pervasive silica alteration, intensity is slightly elevated in the SLZN's <<Vein: 49.93 - 56.69 5% Other veins (describe in Comments) 80 deg. >> several banded qtz carbonate veins (qtz>cal), minor py mineralization									
<b>63.86</b>	<b>76.41</b>	<b>SLZN Summit Lake Zone</b> 63.86 - 76.41: weakly developed SLZN, localized shear fabrics, intervals of banded veins, and general bleaching of host andesite  <<Min: 63.86 - 76.41 4% Pyrite>> very variable distribution of pyrite within SLZN, occurs interstitial to lapilli, disseminated, in belbs, and as bands and stringers within shear veined. Modal variations on the decimetre scale from 1 - 20% <<Alt: 63.86 - 76.41 Weak (partial crystal replacement) Calcite>> patchy, weak to moderate calcite alteration, intensity of alteration tends to increase with abundance of sulphide minerals (py+po) <<Alt: 63.86 - 79.37 Weak (partial crystal replacement) Sericite>> patchy weak to moderate sericite alteration, fluid flow seems to focus along margins of relict lapilli clasts increase degree of sericitization <<Vein: 63.86 - 76.41 10% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 75 deg. >> qtz vein +/- cal, locally brecciating host, thin stingers of fine-grained pyrite, more of a zone than discreet veins	65.53	66.72	1.19						

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<p>&lt;&lt;Struc: 65.53 - 66.45 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt; shear fabric within quartz veined zone</p>											
<b>76.41</b>	<b>79.37</b>	<b>AND Andesite</b>									
76.41 - 79.37: bleached light grey andesite, primary textures still visible, lacking foliation observed above in SLZN											
<b>79.37</b>	<b>86.29</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
79.37 - 86.29: fine-mediumvgrained lamprophyre - phenocrysts are thin-amphibole laths and the matrix is light grey - likely a different phase of mafic dyke than previously described lamps - however it is barren to mineralization like other late dykes											
<b>86.29</b>	<b>99.09</b>	<b>SLZN Summit Lake Zone</b>									
86.29 - 99.09: weakly developed SLZN, localized banded veining and developed shear fabrics											
<<Min: 86.29 - 99.09 3% Pyrite>> pyrite occurs as fine-disseminations, stringers, and bands along calcite											
<<Alt: 86.29 - 96.93 Weak (partial crystal replacement) Calcite>> weak patchy cal alteration											
<<Alt: 86.29 - 99.09 Weak (partial crystal replacement) Silica>> patchy silica alteration											
<<Alt: 86.29 - 99.09 Weak (partial crystal replacement) Sericite>> patchy sericite alteration associated with increasing degree of shearing											
<<Vein: 86.29 - 99.09 5% Other veins (describe in Comments) 70 deg. >> weakly developed portion of the SLZN, weak qtz-cal +/-py veining relative to following interval											
<b>99.09</b>	<b>106.10</b>	<b>MISS Missing Core</b>									
99.09 - 106.1: missing original box 15 (prior to reboxing sections into 4 channel boxes)											
<<Alt: 99.09 - 111.25 Moderate (most crystals replaced, textural modification) Calcite>> moderate to strong calcite alteration (veining?) associated with py-po veining											
<b>106.10</b>	<b>115.82</b>	<b>SLZN Summit Lake Zone</b>									
106.1 - 115.82: well developed SLZN, transitioning to weakly developed SLZN. Most intensely mineraliaed/sheared portion is from 348 - 365 ft											
<<Min: 106.1 - 115.82 3% Pyrite>> pyrite occurs as fine-disseminations, stringers, and bands along calcite veins											
<<Min: 106.25 - 111.25 30% Pyrite>> semi-massive py sheared											
<<Min: 106.25 - 111.25 5% Pyrrhotite>> coarse-grained po in sheared veins											
<<Min: 111.25 - 115.82 5% Pyrite>> fine to medium grained py, focused in bands along veins, and as disseminations oriented with the foliaion											
<<Alt: 106.1 - 115.82 Weak (partial crystal replacement) Silica>> patchy silica alteration											
<<Alt: 106.1 - 115.82 Weak (partial crystal replacement) Sericite>> patchy sericite alteration associated with increasing degree of shearing											
			107.78	109.00	1.22						

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**732**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Vein: 106.1 - 111.25 90% Composite sulphide + calcite (banded SX- and CC-dominant) 37 deg. >> large semi to massive sulphide veins py>po, + cal, strong shearing									
		<<Vein: 111.25 - 115.82 5% Other veins (describe in Comments) 15 deg. >> primary vein type is thing qtz veins,with banded margins mineralization									
		<<Struc: 106.1 - 111.25 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>> strong shear fabric in semimassive sulphide vein									
		<<Struc: 107.78 - 107.9 Moderate (most crystals replaced, textural modification) Brittle fault gouge>> clays and pebble sized fragments - fault zone?									
		<<Struc: 109.73 - 109.88 Moderate (most crystals replaced, textural modification) Brittle fault gouge>> pebble to gravel sized fragcments with some clay									
<b>End of Hole @ 115.82</b>											



## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **733**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/15/2018	
UTM Easting:		Core Size:	Azimuth:	224.3	Date Logging Complete:	8/15/2018
UTM Northing:		Casing Pulled?:	Dip:	-67.9	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	121.92	Drill Rig:	
Local Easting:	6910.91	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3263.57	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	2991.32			Hole Completed?:		Purpose:
Comments:				Proposed ID:		Parent Hole:

First hole logged. Realitively unmineralized hole to test lithologies.

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>1.09</b>	<b>2.01</b>	<b>AND Andesite</b>									
<b>2.01</b>	<b>2.92</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>2.92</b>	<b>6.92</b>	<b>AND Andesite</b>									
<b>6.92</b>	<b>8.11</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 6.92 - 8.11 3% Pyrite>>											
<<Alt: 6.92 - 8.11 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 6.92 - 8.11 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Vein: 6.92 - 8.11 25% Composite sulphide + calcite (banded SX- and CC-dominant) 26 deg. >>											
<b>8.11</b>	<b>9.29</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>9.29</b>	<b>9.78</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 9.29 - 9.78 15% Pyrite>>											
<<Min: 9.29 - 9.78 2% Pyrrhotite>>											
<<Alt: 9.29 - 9.78 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 9.29 - 9.78 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Vein: 9.29 - 9.78 30% Composite sulphide + calcite (banded SX- and CC-dominant) 32 deg. >>											

## GeoSpark Logger ~ Drill Log

Project: **Scottie Gold** Hole Number: **733**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>9.78</b>	<b>15.24</b>	<b>AND Andesite</b>									
<b>15.24</b>	<b>19.05</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>19.05</b>	<b>19.45</b>	<b>AND Andesite</b>									
<b>19.45</b>	<b>19.96</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 19.45 - 19.96 5% Pyrite>>											
<<Alt: 19.45 - 19.96 Weak (partial crystal replacement) Sericite>>											
<<Vein: 19.45 - 19.96 45% Calcite-dominant (CAL > PY + PO + CHL + SER) 60 deg. >>											
<b>19.96</b>	<b>21.33</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>21.33</b>	<b>21.85</b>	<b>SLZN Summit Lake Zone</b>									
<b>21.85</b>	<b>28.22</b>	<b>AND Andesite</b>									
<b>28.22</b>	<b>28.74</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>28.74</b>	<b>33.68</b>	<b>AND Andesite</b>	29.87	30.36	0.49						
<b>33.68</b>	<b>42.85</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>42.85</b>	<b>43.13</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 42.85 - 43.13 3% Pyrite>>											
<<Alt: 42.85 - 43.13 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 42.85 - 43.13 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 42.85 - 43.13 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 42.85 - 43.13 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Vein: 42.85 - 43.13 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >>											
<b>43.13</b>	<b>47.46</b>	<b>AND Andesite</b>									
<b>47.46</b>	<b>49.80</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 47.46 - 49.81 2% Pyrite>>											
<<Alt: 47.46 - 49.81 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Vein: 47.46 - 49.81 10% Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 25 deg. >>											
<b>49.80</b>	<b>54.07</b>	<b>AND Andesite</b>									
49.8 - 54.07: local calcitic veins with ~1% py.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>54.07</b>	<b>58.31</b>	<b>SLZN Summit Lake Zone</b> <<Min: 54.07 - 66.29 20% Pyrite>> <<Min: 54.07 - 66.29 2% Pyrrhotite>> <<Alt: 54.07 - 66.29 Weak (partial crystal replacement) Sericite>> <<Alt: 54.07 - 66.29 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Alt: 54.07 - 66.29 Moderate (most crystals replaced, textural modification) Carbonate>> <<Vein: 54.07 - 66.29 65% Composite sulphide + calcite (banded SX- and CC-dominant) 33 deg. >>									
<b>65.53</b>	<b>66.29</b>	<b>SLZN Summit Lake Zone</b>									
<b>66.29</b>	<b>68.06</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>68.06</b>	<b>73.46</b>	<b>SLZN Summit Lake Zone</b> <<Min: 68.06 - 73.46 20% Pyrite>> <<Alt: 68.06 - 73.46 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 68.06 - 73.46 30% Composite sulphide + calcite (banded SX- and CC-dominant) 25 deg. >> Later stage qtz veins cross-cutting the qtz-cb veins hosting sulfides									
<b>73.46</b>	<b>75.59</b>	<b>FLT Fault</b> 73.46 - 75.59: Heavily oxidized fault breccia.									
<b>75.59</b>	<b>76.38</b>	<b>DIA Diabase (fine-grained pale green "microdiorite" dikes)</b> 75.59 - 76.38: Altered. Heavily oxidized.									
<b>76.38</b>	<b>90.53</b>	<b>AND Andesite</b> 76.38 - 90.53: Heavily fractured/veined. Likely late stage veining qtz-cb. No apparent sulfides present.									
<b>90.53</b>	<b>92.90</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>92.90</b>	<b>97.60</b>	<b>AND Andesite</b> 92.9 - 97.6: Late stage fracture sets locally found in this lithological section.									
<b>97.60</b>	<b>100.58</b>	<b>DIA Diabase (fine-grained pale green "microdiorite" dikes)</b> 97.6 - 100.58: Diabase with andesite breccia. Late stage veins overprinted over all.									

# GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**733**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>100.58</b>	<b>103.88</b>	<b>AND Andesite</b>									
100.58 - 103.88: Late stage qtz-cb veins.											
<b>103.88</b>	<b>110.89</b>	<b>SLZN Summit Lake Zone</b>									
103.88 - 110.89: Large (~7m) late stage qtz-cb-flds vein. No apparent sulfides present											
<<Alt: 103.88 - 110.89 Moderate (most crystals replaced, textural modification) K-feldspar>>											
<<Alt: 103.88 - 110.89 Strong (complete replacement, some primary QZ and textures) Carbonate>>											
<<Vein: 103.88 - 110.89 100% Other veins (describe in Comments)>> One large qtz-cb vein with k-feldspar alteration. No apparent sulfides present. No structure.											
<b>110.89</b>	<b>115.52</b>	<b>AND Andesite</b>									
110.89 - 115.52: Late stage qtz-cb veins.											
<b>End of Hole @ 121.92</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **734**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Thomas Mumford
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/18/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/18/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	6962.15	Stored?:	Yes	Claims Title:	
Local Northing:	3231.82	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	3008.77			Hole Completed?:	
Comments:			Proposed ID:	Purpose:	
				Parent Hole:	

734 - Hole starts in a short interval of lamprophyre hosted in andesite. The andesite unit includes a 5 m interval of minor structures and veining indicating a weakly developed SLZN, then back into a more massive body of andesite which hosts another lamprophyre dyke. At 204-263 ft another weakly developed SLZN occurs, which transitions at 263ft to a well developed SLZN consisting of strongly sheared massive to semi-massive po>py vein with cal-qtz alteration, the vein is ~5 feet wide. The hole ends in andesite with slightly elevated py abundances. Dip of the hole was recorded as 47.5, but Geospark will not allow positive dip.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>5.55</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
0 - 5.55: multiphase lamprophyre dyke, largely medium- to coarse-grained, with intervals of aphanitic mafic dyke?											
<b>5.55</b>	<b>8.69</b>	<b>AND Andesite</b>									
5.55 - 8.69: grey andesite, heterogenous, includes some slivers of lamprophyre dykes											
<<Min: 7.89 - 8.5 2% Pyrite>> pyrite disseminated and along margin of a small vein/shear											
<b>8.69</b>	<b>8.99</b>	<b>VEIN massive vein</b>									
8.69 - 8.99: massive calcite-quartz vein - minor py											
<<Min: 8.69 - 8.99 3% Pyrite>> medium grained py hosting in quartz calcite vein											
<b>8.99</b>	<b>20.79</b>	<b>AND Andesite</b>									
8.99 - 20.79: grey massive andesite, cut by numerous thin extensional calcite veins											

# GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**734**

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
20.79	21.95	1.16						

**20.79 25.09 SLZN Summit Lake Zone**

20.79 - 25.09: weak to moderately developed SLZN, includes 1.5 m interval of strongly silicified, calcite altered shearing, minor py - other small shear bands and vein within overall interval

<<Min: 20.79 - 21.95 2% Pyrite>> disseminated and blebby py in shear zone

<<Alt: 20.79 - 25.09 Moderate (most crystals replaced, textural modification) Silica>> moderate to strong silicification, localized quartz flooding in shear zone,

<<Alt: 20.79 - 25.09 Weak (partial crystal replacement) Calcite>> subtle to weak calcite alteration - associated with the cval veining

<<Vein: 20.79 - 25.09 25% Calcite-dominant (CAL > PY + PO + CHL + SER) 65 deg. >> dominantly one large vein system with significant quartz flooding and later calcite veining, in addition is a 15 cm wide massive cal vein

<<Struc: 20.79 - 21.95 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> shearing in SLZN, qtz flooding and cal alteration

**25.09 54.68 AND Andesite**

25.09 - 54.68: grey massive andesite, quartz and calcite veins, minor py mineralization

<<Min: 29.81 - 29.99 5% Pyrite>> pyrite associated with small banded vein

<<Min: 29.81 - 29.99 1% Pyrrhotite>> non-mag pyrrhotite in small banded vein

<<Min: 38.07 - 38.16 3% Pyrite>> pyrite associated with calcite vein,

**54.68 55.53 LMP Lamprophyre (dark grey-brown to black mafic dykes)**

54.68 - 55.53: lamprophyre dyke with gradational contacts, from aphanitic margins to medium-grained core

**55.53 62.21 AND Andesite**

55.53 - 62.21: grey fine-grained heterogenous andesite, locally spears to contain lapillis

**62.21 80.16 SLZN Summit Lake Zone**

75.74	76.87	1.13
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62.21 - 80.16: weak to moderately developed Summit Lake shear zone, qtz and cal veining minor py mineralization, localized shear foliation associated with banded veins - sits directly above distinctly well developed SLZN

<<Min: 62.21 - 80.16 2% Pyrite>> highly variable distribution of py, occurring as thin bands along calcite veins, dissemination, and as blebs and stringers brought into the foliation, localized (<10cm) abundances approach 7%

<<Alt: 62.21 - 80.16 Weak (partial crystal replacement) Silica>> pervasive silica alteration, slightly weaker than other noted SLZN

<<Alt: 62.21 - 80.16 Weak (partial crystal replacement) Sericite>> weak sericite alteration primarily associated with shear banded intervals

<<Vein: 62.21 - 80.16 7% Calcite-dominant (CAL > PY + PO + CHL + SER) 75 deg. >> the most significant veins are dominantly calcite with bands of fine-grained py, evidence of shearing along margins, a number of thin <1cm extensional qtz veins are also present in this interval,

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **734**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 75.59 - 76.66 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> most pronounced shear bands within interval of SLZN, shearing defined by orientaion of calcite veins and stringers of py											
<b>80.16</b>	<b>81.84</b>	<b>SLZN Summit Lake Zone</b>	80.16	81.38	1.22						
80.16 - 81.84: well developed SLZN, semi-massive to massive sheared py+po vein with qtz+cal, po is magnetic											
<<Min: 80.16 - 81.84 20% Pyrite>> py intergrown with po in large sheared SLZN vein <<Min: 80.16 - 81.84 60% Pyrrhotite>> massive coarse-grained po intergrown with py with large sheared vein <<Alt: 80.16 - 81.84 Moderate (most crystals replaced, textural modification) Calcite>> moderate pervasive calcite alteration associated with the py-po vein <<Alt: 80.16 - 85.04 Weak (partial crystal replacement) Silica>> weak pervasive silica alteration (patchy in massive sulphide vein) <<Vein: 80.16 - 81.84 90% Composite sulphide + calcite (banded SX- and CC-dominant) 55 deg. >> massive sheared sulphide (po>py), cal + qtz vein, complex internal structures <<Struc: 80.16 - 81.84 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>> strongly sheared massive sulphide SLZN											
<b>81.84</b>	<b>94.18</b>	<b>AND Andesite</b>	92.66	93.48	0.82						
81.84 - 94.18: grey andesite, heterogenous, potentially hosting a small mafic dykes around 302ft, gradational weakly bleached appearance close to the contact with the SLZN above - hole goes to 314ft (but historic log only goes to 309ft											
<<Min: 81.84 - 88.39 2% Pyrite>> 1-2% py occuring as coarse-grained blebs associated with late brittle calcite veins <<Min: 89.28 - 93.88 3% Pyrite>> 2-3% py, in the form of blebly clusters, disseminations, and stringers, <<Alt: 81.84 - 88.39 Weak (partial crystal replacement) Sericite>> weak sericite alteration and bleaching of the host andesite, gradational contact with above SLZN py-po vein <<Vein: 81.84 - 88.39 5% Other veins (describe in Comments) 70 deg. >> late calcite veins +/- coarse py, laregly brittle morphologies - localciazed weak brecciation,											
<b>End of Hole @ 94.18</b>											



## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **735**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/24/2018	
UTM Easting:		Core Size:	Azimuth:	210.82	Date Logging Complete:	8/25/2018
UTM Northing:		Casing Pulled?:	Dip:	-45.47	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	112.47	Drill Rig:	
Local Easting:	6962.23	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3230.57	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	2999.41			Hole Completed?:		Purpose:
Comments:				Proposed ID:		Parent Hole:

Relogging hole 735. Hole starts with alternating andesite and lamprophyre dykes with locally weakly foliated/ mineralized expressions of the SLSZ. Alteration and foliation increases around 78m into the SLSZ intercept. Notable foliated rhodochrosite and chlorite in the end of the hole. This alteration has not been seen as of yet and sampled to understand the geochemistry.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>2.68</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
0 - 2.68: Phenocrysts size changes from medium to very fine near the ends of the intervals.											
<b>2.68</b>	<b>4.15</b>	<b>AND Andesite</b>									
2.68 - 4.15: Local cb-qtz veins present											
<b>4.15</b>	<b>8.11</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>8.11</b>	<b>9.97</b>	<b>AND Andesite</b>									
<b>9.97</b>	<b>10.67</b>	<b>SLZN Summit Lake Zone</b>									
9.97 - 10.67: Strongly foliated carbonate sections, with a siliceous altered halo around the foliation. Sulfides hosted in the extensional fractures											
<<Min: 9.97 - 10.67 5% Pyrite>>											
<<Alt: 9.97 - 10.67 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 9.97 - 10.67 Chlorite>>											
<<Alt: 9.97 - 10.67 Moderate (most crystals replaced, textural modification) Carbonate>>											
<<Vein: 9.97 - 10.67 70% Calcite-dominant (CAL > PY + PO + CHL + SER) 62 deg. >>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Struc: 9.97 - 10.67 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
<b>10.67</b>	<b>26.76</b>	<b>AND Andesite</b>									
10.67 - 26.76: Local cb veins present averaging ~1 cm at an average angle of 50 degrees.											
<b>26.76</b>	<b>37.31</b>	<b>AND Andesite</b>									
26.76 - 37.31: Local cb veins averaging 1 cm at 50 degrees. Locally foliated at 94ft and 117 ft.											
<<Min: 26.76 - 37.31 3% Pyrite>> Disseminated py locally found											
<<Alt: 35.2 - 37.31 Weak (partial crystal replacement) Sericite>>											
<<Alt: 35.2 - 37.31 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Struc: 28.65 - 28.96 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<<Struc: 35.66 - 35.97 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>37.31</b>	<b>38.13</b>	<b>SLZN Summit Lake Zone</b>									
37.31 - 38.13: Weak to moderate expression of the SLSZ with a silicified/sericite alteration halo (~3cm).											
<<Min: 37.31 - 38.13 3% Pyrite>> Disseminated throughout in cc vein type and crosscutting qtz veins.											
<<Alt: 37.31 - 38.13 Weak (partial crystal replacement) Silica>>											
<<Alt: 37.31 - 38.13 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 37.31 - 38.13 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 37.31 - 38.13 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Struc: 37.31 - 38.13 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>38.13</b>	<b>48.68</b>	<b>AND Andesite</b>									
38.13 - 48.68: Locally small foliated/veined sections.											
<<Min: 38.13 - 48.68 3% Pyrite>>											
<<Alt: 38.13 - 48.68 Weak (partial crystal replacement) Silica>>											
<<Alt: 38.13 - 48.68 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 38.13 - 48.68 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Struc: 48.04 - 48.34 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>48.68</b>	<b>58.95</b>	<b>AND Andesite</b>									
48.68 - 58.95: Altered andesite. Notable py stringers and disseminated py throughout the foliated interval.											
<<Min: 48.68 - 58.95 3% Pyrite>>											
<<Alt: 48.68 - 58.95 Weak (partial crystal replacement) Silica>>											
<<Alt: 48.68 - 58.95 Moderate (most crystals replaced, textural modification) Sericite>>											

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

735

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 48.68 - 58.95		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 48.68 - 58.95		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Vein: 48.68 - 58.95		Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 40 deg. >>									
<<Struc: 48.68 - 58.95		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<<Struc: 52.58 - 53.04		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>58.95</b>	<b>60.62</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 58.95 - 60.62		15% Pyrite>>									
<<Alt: 58.95 - 60.62		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 58.95 - 60.62		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 58.95 - 60.62		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 60.56 - 61.78		Weak (partial crystal replacement) Silica>>									
<<Alt: 60.56 - 61.78		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 60.56 - 61.78		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Vein: 58.95 - 60.62		30% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 40 deg. >>									
<<Struc: 58.95 - 60.62		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>60.62</b>	<b>61.78</b>	<b>AND Andesite</b>									
<b>61.78</b>	<b>62.09</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>62.09</b>	<b>64.16</b>	<b>AND Andesite</b>									
<<Alt: 62.09 - 64.16		Weak (partial crystal replacement) Silica>>									
<<Alt: 62.09 - 64.16		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 62.09 - 64.16		Moderate (most crystals replaced, textural modification) Chlorite>>									
<b>64.16</b>	<b>64.47</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>64.47</b>	<b>76.81</b>	<b>AND Andesite</b>									
<<Min: 64.47 - 76.81		5% Pyrite>> Disseminated throughout									
<<Alt: 64.47 - 76.81		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 64.47 - 77.24		Weak (partial crystal replacement) Silica>>									
<<Alt: 64.47 - 77.24		Weak (partial crystal replacement) Chlorite>>									
<b>76.81</b>	<b>77.24</b>	<b>SLZN Summit Lake Zone</b>									
<<Alt: 76.81 - 77.24		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 76.81 - 77.24		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 76.81 - 77.24		Subtle (restricted to crystal margins, fractures) Carbonate>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Vein: 76.81 - 77.24 40% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> <<Struc: 76.81 - 77.24 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>77.24</b>	<b>77.54</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>77.54</b>	<b>79.71</b>	<b>SLZN Summit Lake Zone</b>									
<<Alt: 77.54 - 79.71 Weak (partial crystal replacement) Silica>> <<Alt: 77.54 - 79.71 Weak (partial crystal replacement) Sericite>> <<Alt: 77.54 - 79.71 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 77.54 - 79.71 30% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 15 deg. >> dominately qtz-sulfide veins. <<Struc: 77.54 - 79.71 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>79.71</b>	<b>84.76</b>	<b>AND Andesite</b>									
<<Min: 79.71 - 84.76 3% Pyrite>> Disseminated throughout the interval <<Alt: 79.71 - 84.76 Moderate (most crystals replaced, textural modification) Silica>> <<Alt: 79.71 - 84.76 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 79.71 - 84.76 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 79.71 - 84.76 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Struc: 79.71 - 84.76 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>84.76</b>	<b>85.34</b>	<b>MISS Missing Core</b>									
<b>85.34</b>	<b>87.84</b>	<b>SLZN Summit Lake Zone</b>	86.65	87.45	0.80						
<<Min: 85.34 - 87.84 40% Pyrite>> <<Min: 85.34 - 87.84 10% Pyrrhotite>> <<Alt: 85.34 - 87.84 Weak (partial crystal replacement) Silica>> <<Alt: 85.34 - 87.84 Strong (complete replacement, some primary QZ and textures) Sericite>> <<Alt: 85.34 - 87.84 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Alt: 85.34 - 87.84 Weak (partial crystal replacement) Carbonate>> <<Vein: 86.65 - 87.78 60% Composite sulphide + calcite (banded SX- and CC-dominant) 42 deg. >> Qtz-cb veining <<Struc: 85.34 - 87.84 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>87.84</b>	<b>88.51</b>	<b>FLT Fault</b>									
<b>88.51</b>	<b>101.19</b>	<b>SLZN Summit Lake Zone</b>	95.25	96.19	0.94						
88.51 - 101.19: Notable foliated rhodochrosite and chlorite											
<<Min: 88.51 - 92.96 20% Pyrite>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**735**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 88.51 - 92.96		10% Pyrrhotite>>									
<<Min: 92.96 - 98.33		30% Pyrite>>									
<<Min: 92.96 - 98.33		5% Pyrrhotite>>									
<<Alt: 88.51 - 92.96		Weak (partial crystal replacement) Silica>>									
<<Alt: 88.51 - 92.96		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 88.51 - 92.96		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 88.51 - 92.96		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Alt: 92.96 - 98.33		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 92.96 - 98.33		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 92.96 - 98.33		Intense (no primary minerals, textures mostly destroyed) Chlorite>>									
<<Alt: 92.96 - 98.33		Weak (partial crystal replacement) Carbonate>>									
<<Vein: 88.51 - 92.96		30% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 20 deg. >>									
<<Vein: 92.96 - 98.33		70% Composite sulphide + calcite (banded SX- and CC-dominant) 23 deg. >>									
<<Struc: 88.51 - 92.96		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<<Struc: 92.96 - 98.33		Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
<b>101.19</b>	<b>105.46</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>105.46</b>	<b>112.47</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
105.46 - 112.47:	Notable foliated rhodochrosite and chlorite										
<<Min: 105.64 - 112.47		10% Pyrite>>									
<<Min: 105.64 - 112.47		5% Pyrrhotite>>									
<<Alt: 105.64 - 112.47		Weak (partial crystal replacement) Silica>>									
<<Alt: 105.64 - 112.47		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 105.64 - 112.47		Intense (no primary minerals, textures mostly destroyed) Chlorite>>									
<<Alt: 105.64 - 112.47		Moderate (most crystals replaced, textural modification) Carbonate>>									
<<Vein: 105.64 - 112.47		40% Calcite-dominant (CAL > PY + PO + CHL + SER) 20 deg. >>									
<<Struc: 105.64 - 112.47		Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
<b>End of Hole @ 112.47</b>											

108.05	108.66	0.61
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## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **739**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/27/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/29/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	6965.2	Stored?:	Yes	Claims Title:	Drill Started:
Local Northing:	2757.77	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	3017.23			Hole Completed?:	Purpose:
Comments:			Proposed ID:	Parent Hole:	

Re-logging hole 739 (Note: Dip is actually =ve, not -ve). Hole 739 has notable intervals that can be interpreted as SLZN and local areas described as altered andesite. Moderately to strongly chloritized throughout the hole. Locally altered and foliated sections that could have been interpreted as a weak expression of the SLZN were sampled as well.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>7.19</b>	<b>SLZN Summit Lake Zone</b>	4.27	5.49	1.22						
<p>0 - 7.19: Bleached in appearance with sxcc +sx vein types. Disseminated py+po in veins and host rock.</p> <p>&lt;&lt;Min: 0 - 7.19 50% Pyrite&gt;&gt;            &lt;&lt;Min: 0 - 7.19 10% Pyrrhotite&gt;&gt;            &lt;&lt;Alt: 0 - 7.19 Strong (complete replacement, some primary QZ and textures) Silica&gt;&gt;            &lt;&lt;Alt: 0 - 7.19 Strong (complete replacement, some primary QZ and textures) Sericite&gt;&gt;            &lt;&lt;Alt: 0 - 7.19 Subtle (restricted to crystal margins, fractures) K-feldspar&gt;&gt;            &lt;&lt;Alt: 0 - 7.19 Moderate (most crystals replaced, textural modification) Chlorite&gt;&gt;            &lt;&lt;Alt: 0 - 7.19 Subtle (restricted to crystal margins, fractures) Carbonate&gt;&gt;            &lt;&lt;Vein: 0 - 7.19 Composite sulphide + calcite (banded SX- and CC-dominant) 42 deg. &gt;&gt;            &lt;&lt;Struc: 0 - 7.19 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>7.19</b>	<b>10.36</b>	<b>SLZN Summit Lake Zone</b>									
<p>7.19 - 10.36: weaker expression of the SLZN. Disseminated sulfides throughout the interval.</p> <p>&lt;&lt;Min: 7.19 - 10.36 10% Pyrite&gt;&gt;            &lt;&lt;Min: 7.19 - 10.36 1% Pyrrhotite&gt;&gt;            &lt;&lt;Alt: 7.19 - 10.36 Weak (partial crystal replacement) Silica&gt;&gt;</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 7.19 - 10.36 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 7.19 - 10.36 Intense (no primary minerals, textures mostly destroyed) Chlorite>> <<Alt: 7.19 - 10.36 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 7.19 - 10.36 Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 40 deg. >> <<Struc: 7.19 - 10.36 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<b>10.36 17.31 AND Andesite</b>									
		10.36 - 17.31: Altered andesite (weak SLZN?) disseminated sulfides throughout and local sulfide stringers									
		<<Min: 10.36 - 17.31 10% Pyrite>> <<Alt: 10.36 - 17.31 Weak (partial crystal replacement) Silica>> <<Alt: 10.36 - 17.31 Weak (partial crystal replacement) Sericite>> <<Alt: 10.36 - 17.31 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Alt: 10.36 - 17.31 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<b>17.31 19.60 SLZN Summit Lake Zone</b>									
		17.31 - 19.6: Chlorite rich interval with notable chlorite veins with sulfides									
		<<Min: 17.31 - 19.6 25% Pyrite>> <<Min: 17.31 - 19.6 2% Pyrrhotite>> <<Alt: 17.31 - 19.6 Weak (partial crystal replacement) Silica>> <<Alt: 17.31 - 19.6 Weak (partial crystal replacement) Sericite>> <<Alt: 17.31 - 19.6 Intense (no primary minerals, textures mostly destroyed) Chlorite>> <<Alt: 17.31 - 19.6 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 17.31 - 19.6 Other veins (describe in Comments) 40 deg. >> Chlorite rich with sulfides. Little to no carbonate found in the "vein" itself <<Struc: 17.31 - 19.6 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<b>19.60 28.65 AND Andesite</b>									
		19.6 - 28.65: Altered andesite. notable sulfide stringers in this interval									
		<<Min: 19.6 - 28.65 10% Pyrite>> <<Alt: 19.6 - 28.65 Weak (partial crystal replacement) Silica>> <<Alt: 19.6 - 28.65 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 19.6 - 28.65 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 19.6 - 28.65 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 19.6 - 28.65 Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 52 deg. >> <<Struc: 22.1 - 22.25 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									

18.71	19.51	0.80
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## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

739

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 24.44 - 27.95 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>28.65</b>	<b>41.82</b>	<b>SLZN Summit Lake Zone</b>									
28.65 - 41.82: chlorite rich zone with weak to moderate foliation and sulfides											
<<Min: 28.65 - 41.82 30% Pyrite>>											
<<Min: 28.65 - 41.82 1% Pyrrhotite>>											
<<Alt: 28.65 - 41.82 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 28.65 - 41.82 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 28.65 - 41.82 Intense (no primary minerals, textures mostly destroyed) Chlorite>>											
<<Alt: 28.65 - 41.82 Moderate (most crystals replaced, textural modification) Carbonate>>											
<<Vein: 28.65 - 41.82 Composite sulphide + calcite (banded SX- and CC-dominant) 50 deg. >>											
<b>41.82</b>	<b>43.89</b>	<b>AND Andesite</b>									
41.82 - 43.89: Altered andesite with disseminated sulfides throughout the interval.											
<<Min: 41.82 - 43.89 3% Pyrite>> Disseminated throughout the interval.											
<<Alt: 41.82 - 43.89 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 41.82 - 43.89 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 41.82 - 43.89 Strong (complete replacement, some primary QZ and textures) Chlorite>>											
<b>43.89</b>	<b>52.40</b>	<b>SLZN Summit Lake Zone</b>	50.84	51.15	0.31						
43.89 - 52.4: Interval with the highest historical grade. Noticable black mineral present (possibly Fe-rich chlorite?). Arsenopyrite present. S-shear fabric present as well.											
<<Min: 43.89 - 52.4 30% Pyrite>>											
<<Min: 43.89 - 52.4 10% Pyrrhotite>>											
<<Min: 43.89 - 52.4 20% Arsenopyrite>>											
<<Alt: 43.89 - 52.4 Weak (partial crystal replacement) Silica>>											
<<Alt: 43.89 - 52.4 Strong (complete replacement, some primary QZ and textures) Sericite>>											
<<Alt: 43.89 - 52.4 Subtle (restricted to crystal margins, fractures) K-feldspar>> Unsure about this alteration. If anything it would be trace amounts.											
<<Alt: 43.89 - 52.4 Strong (complete replacement, some primary QZ and textures) Chlorite>>											
<<Alt: 43.89 - 52.4 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Vein: 43.89 - 52.4 Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >>											
<<Struc: 43.89 - 52.4 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>											

Project:

Scottie Gold

Hole Number:

739

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
61.42	62.18	0.76						

**52.40 62.61 SLZN Summit Lake Zone**

52.4 - 62.61: chloritic with thin sulfide stringer veins and disseminated sulfides throughout the interval.

- <<Min: 52.4 - 62.61 20% Pyrite>>
- <<Min: 52.4 - 62.61 1% Pyrrhotite>>
- <<Alt: 52.4 - 62.61 Subtle (restricted to crystal margins, fractures) Silica>>
- <<Alt: 52.4 - 62.61 Moderate (most crystals replaced, textural modification) Sericite>>
- <<Alt: 52.4 - 62.61 Strong (complete replacement, some primary QZ and textures) Chlorite>>
- <<Vein: 52.4 - 62.61 Sulphide +/- quartz vein (PO > PY +/- QZ +/- CHL) 38 deg. >>
- <<Struc: 52.4 - 62.61 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>

65.23	65.53	0.30
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**62.61 65.53 AND Andesite**

62.61 - 65.53: Local structure that may be a weak expression of the SLZN

- <<Min: 62.61 - 65.53 5% Pyrite>> Disseminated throughout the intervals and in local structures.
- <<Alt: 62.61 - 65.53 Subtle (restricted to crystal margins, fractures) Silica>>
- <<Alt: 62.61 - 65.53 Moderate (most crystals replaced, textural modification) Sericite>>
- <<Alt: 62.61 - 65.53 Strong (complete replacement, some primary QZ and textures) Chlorite>>
- <<Alt: 62.61 - 65.53 Subtle (restricted to crystal margins, fractures) Carbonate>>
- <<Struc: 65.23 - 65.53 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>> weak to moderate foliation

**65.53 66.14 MISS Missing Core**

- <<Min: 65.53 - 74.37 2% Pyrite>> disseminated throughout the intervals
- <<Alt: 65.53 - 74.37 Subtle (restricted to crystal margins, fractures) Silica>>
- <<Alt: 65.53 - 74.37 Moderate (most crystals replaced, textural modification) Sericite>>
- <<Alt: 65.53 - 74.37 Strong (complete replacement, some primary QZ and textures) Chlorite>>
- <<Alt: 65.53 - 74.37 Subtle (restricted to crystal margins, fractures) Carbonate>>

**66.14 70.23 AND Andesite**

**70.23 70.47 MISS Missing Core**

**70.47 71.23 AND Andesite**

**71.23 71.63 MISS Missing Core**

**71.63 72.60 AND Andesite**

**72.60 73.06 MISS Missing Core**

**73.06 74.37 AND Andesite**

### GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**739**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>End of Hole @ 74.37</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **745**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	9/3/2018	
UTM Easting:		Core Size:	Azimuth:	265.68	Date Logging Complete:	9/3/2018
UTM Northing:		Casing Pulled?:	Dip:	-0.083	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	167.34	Drill Rig:	
Local Easting:	6979.28	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3561.56	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3013.14			Hole Completed?:		Purpose:
Comments:				Proposed ID:		Parent Hole:

Relogging hole 745 (Note: the dip is actually +ve, not -ve). Hole started with a silicified andesite breccia with quartz infill. This is followed by Altered andesite with small, weak expression of what appear to be Summit lake zones. Alteration gradually increased until a Strongly foliated, altered, and mineralized zone was identified. Historical assays showed that the interpreted SLZN did not carry much gold if any. Samples were taken to compare with high grade zones. The hole ended with a local section of lamprophyre and weak expressions of SLZN and altered andesite.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>37.43</b>	<b>AND Andesite</b>									
0 - 37.43: Andesite with qtz infilled breccia. Carbonate fractures do appear locally. Local vuggy qtz.											
<<Alt: 0 - 37.43 Moderate (most crystals replaced, textural modification) Silica>>											
<<Vein: 0 - 37.43 75% Other veins (describe in Comments)>> Quartz with minor carbonate. Chaotic in appearance and no preference in orientation.											
<<Struc: 0 - 37.43 Moderate (most crystals replaced, textural modification) Breccia>>											
<b>37.43</b>	<b>37.98</b>	<b>VEIN massive vein</b>									
37.43 - 37.98: Massive quartz vein with minor cb.											
<<Vein: 37.43 - 37.98 100% Other veins (describe in Comments) 52 deg. >>											
<b>37.98</b>	<b>44.04</b>	<b>AND Andesite</b>									
37.98 - 44.04: Qtz filled breccia with local carbonate fractures											
<<Alt: 37.98 - 44.04 Moderate (most crystals replaced, textural modification) Silica>>											
<<Vein: 37.98 - 44.04 70% Other veins (describe in Comments)>> Quartz veining with minor carbonate. Not an extensional vein.											
<<Struc: 37.98 - 44.04 Moderate (most crystals replaced, textural modification) Breccia>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**745**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>44.04</b>	<b>47.03</b>	<b>VEIN massive vein</b>									
44.04 - 47.03: Massive quartz vein											
<<Vein: 44.04 - 47.03 Other veins (describe in Comments)>>											
<b>47.03</b>	<b>48.46</b>	<b>AND Andesite</b>									
47.03 - 48.46: Andesite with filled quartz breccia. Local carbonate fractures											
<<Alt: 47.03 - 48.46 Moderate (most crystals replaced, textural modification) Silica>>											
<<Vein: 47.03 - 48.46 40% Other veins (describe in Comments)>>											
<<Struc: 47.03 - 48.46 Moderate (most crystals replaced, textural modification) Breccia>>											
<b>48.46</b>	<b>53.77</b>	<b>VEIN massive vein</b>									
48.46 - 53.77: Massive qtz vein.											
<<Vein: 48.46 - 53.77 100% Other veins (describe in Comments)>> massive quartz vein.											
<b>53.77</b>	<b>60.84</b>	<b>AND Andesite</b>									
<<Alt: 53.77 - 60.84 Weak (partial crystal replacement) Silica>>											
<<Alt: 53.77 - 60.84 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Vein: 53.77 - 60.84 30% Other veins (describe in Comments)>>											
<<Struc: 53.77 - 60.84 Weak (partial crystal replacement) Breccia>>											
<b>60.84</b>	<b>61.14</b>	<b>VEIN massive vein</b>									
60.84 - 61.14: Quartz vein											
<<Vein: 60.84 - 61.14 100% Other veins (describe in Comments)>>											
<b>61.14</b>	<b>64.98</b>	<b>AND Andesite</b>									
<<Alt: 61.14 - 64.98 Weak (partial crystal replacement) Silica>>											
<<Alt: 61.14 - 64.98 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 61.14 - 64.98 Weak (partial crystal replacement) Chlorite>>											
<<Struc: 61.14 - 64.98 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>64.98</b>	<b>69.04</b>	<b>SLZN Summit Lake Zone</b>									
64.98 - 69.04: Weak expression of SLZN											
<<Min: 64.98 - 69.04 3% Pyrite>>											
<<Alt: 64.98 - 69.04 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 64.98 - 69.04 Weak (partial crystal replacement) Chlorite>>											
<<Alt: 64.98 - 69.04 Subtle (restricted to crystal margins, fractures) Carbonate>>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **745**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Vein: 64.98 - 69.04 Calcite-dominant (CAL > PY + PO + CHL + SER) 38 deg. >> <b>69.04 77.24 AND Andesite</b> <<Alt: 69.04 - 77.24 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 69.04 - 77.24 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 69.04 - 77.24 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Vein: 69.04 - 77.24 Calcite-dominant (CAL > PY + PO + CHL + SER) 43 deg. >> <b>77.24 85.13 SLZN Summit Lake Zone</b>											
			82.39	83.21	0.82						
77.24 - 85.13: Weak Expressions of SLZN throughout the interval with a couple of small shear veins with mineralization.  <<Min: 77.24 - 85.13 3% Pyrite>> <<Min: 77.24 - 85.13 1% Pyrrhotite>> <<Alt: 77.24 - 85.13 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 77.24 - 85.13 Weak (partial crystal replacement) Sericite>> <<Alt: 77.24 - 85.13 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 77.24 - 85.13 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 77.24 - 85.13 Calcite-dominant (CAL > PY + PO + CHL + SER) 45 deg. >> <b>85.13 100.43 SLZN Summit Lake Zone</b>											
			94.43	95.28	0.85						
85.13 - 100.43: Increasing in alteration, foliation and mineralization down the interval. At high intensities, the shear vein appears to be massive with chlorite and not sure what the average width of the veins are. Felds-phyric minerals present as fine to medium crystal grain size. Some areas appear to brecciated in appearance and other areas, sub-rounded ( Remobilized??) Unfortunately, historical assays showed minimal to no grade in this interval. Sample is taken to understand why...  <<Min: 85.13 - 93.39 7% Pyrite>> <<Min: 93.39 - 100.28 30% Pyrite>> <<Min: 93.39 - 100.28 5% Pyrrhotite>> <<Alt: 85.13 - 93.39 Moderate (most crystals replaced, textural modification) Silica>> <<Alt: 85.13 - 93.39 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 85.13 - 93.39 Weak (partial crystal replacement) K-feldspar>> <<Alt: 85.13 - 93.39 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Alt: 93.39 - 100.28 Weak (partial crystal replacement) Silica>> <<Alt: 93.39 - 100.28 Weak (partial crystal replacement) Sericite>> <<Alt: 93.39 - 100.28 Weak (partial crystal replacement) K-feldspar>> <<Alt: 93.39 - 100.28 Intense (no primary minerals, textures mostly destroyed) Chlorite>> <<Alt: 93.39 - 100.28 Weak (partial crystal replacement) Carbonate>>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **745**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 100.28 - 116.22 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 100.28 - 116.22 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<<Alt: 100.28 - 116.22 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Struc: 85.13 - 93.39 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<<Struc: 93.39 - 100.28 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
		<<Struc: 100.28 - 116.22 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<b>100.43</b>	<b>116.22</b>	<b>AND Andesite</b>									
<b>116.22</b>	<b>116.95</b>	<b>SLZN Summit Lake Zone</b>	116.22	116.95	0.73						
116.22 - 116.95: Very small, weak expression of SLSZ with some py											
		<<Min: 116.22 - 116.95 5% Pyrite>>									
		<<Alt: 116.22 - 116.95 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 116.22 - 116.95 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 116.22 - 116.95 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 116.22 - 116.95 30% Calcite-dominant (CAL > PY + PO + CHL + SER) 42 deg. >>									
		<<Struc: 116.22 - 116.95 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>116.95</b>	<b>135.30</b>	<b>AND Andesite</b>	130.73	131.34	0.61						
116.95 - 135.3: Variable in alteration											
		<<Alt: 116.95 - 130.15 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 116.95 - 130.15 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 116.95 - 130.15 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 132.28 - 135.03 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 132.28 - 135.03 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 132.28 - 135.03 Weak (partial crystal replacement) Chlorite>>									
		<<Struc: 132.28 - 135.03 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<b>135.30</b>	<b>136.34</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
135.3 - 136.34: Disseminated py in interval											
		<<Min: 135.3 - 136.34 5% Pyrite>> disseminated									
<b>136.34</b>	<b>141.09</b>	<b>AND Andesite</b>									
		<<Alt: 136.34 - 141.09 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 136.34 - 141.09 Weak (partial crystal replacement) Chlorite>>									



From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 136.34 - 141.09 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Struc: 136.34 - 136.67 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>141.09</b>	<b>141.12</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>141.12</b>	<b>142.46</b>	<b>AND</b>	<b>Andesite</b>								
<<Min: 141.4 - 142.46 1% Pyrite>> disseminated py <<Alt: 141.4 - 142.46 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 141.4 - 142.46 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Alt: 141.4 - 142.46 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>142.46</b>	<b>143.93</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
142.46 - 143.93: Weak expression of the SLZN.											
<<Min: 142.46 - 143.93 1% Pyrite>> Disseminated py <<Alt: 142.46 - 143.93 Weak (partial crystal replacement) Sericite>> <<Alt: 142.46 - 143.93 Weak (partial crystal replacement) Chlorite>> <<Alt: 142.46 - 143.93 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 142.46 - 143.93 50% Calcite-dominant (CAL > PY + PO + CHL + SER) 36 deg. >> <<Struc: 142.46 - 143.93 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>143.93</b>	<b>145.66</b>	<b>FLT</b>	<b>Fault</b>								
<b>145.66</b>	<b>152.25</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
145.66 - 152.25: Carbonate alteratin, but not many sulfides.											
<<Min: 145.66 - 152.25 3% Pyrite>> Disseminated py <<Alt: 145.66 - 152.25 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 145.66 - 152.25 Weak (partial crystal replacement) Chlorite>> <<Alt: 145.66 - 152.25 Moderate (most crystals replaced, textural modification) Carbonate>> <<Vein: 145.66 - 152.25 70% Calcite-dominant (CAL > PY + PO + CHL + SER) 25 deg. >> <<Struc: 145.66 - 152.25 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>152.25</b>	<b>154.69</b>	<b>FLT</b>	<b>Fault</b>								
<b>154.69</b>	<b>159.68</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
154.69 - 159.68: Weak expression of SLZN with no apparent sulfides											
<<Min: 159.41 - 167.34 1% Pyrite>> Disseminated py. <<Alt: 154.69 - 159.68 Strong (complete replacement, some primary QZ and textures) Sericite>> <<Alt: 154.69 - 159.68 Moderate (most crystals replaced, textural modification) Chlorite>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**745**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 154.69 - 159.68 Weak (partial crystal replacement) Carbonate>> <<Alt: 159.41 - 167.34 Weak (partial crystal replacement) Chlorite>> <<Vein: 154.69 - 159.68 30% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> <<Struc: 154.69 - 159.68 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>> <b>159.68 167.34 AND Andesite</b>											
<b>End of Hole @ 167.34</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **748**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/30/2018
UTM Easting:		Core Size:	Azimuth:	Date Logging Complete:	8/31/2018
UTM Northing:		Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting:	6977.52	Stored?:	Yes	Claims Title:	Drill Started:
Local Northing:	3563.16	Cemented?:		Core Storage Loc.:	Scottie Gold Camp
Local Elev. (m):	3013.17			Hole Completed?:	Purpose:
Comments:			Proposed ID:	Parent Hole:	

Re-logging Hole 748. (Note: dip is actually '+ve', not '=ve'). Hole 748 was re-logged by both Christian and Ty. Hole started with an andesite quartz breccia with minor local carbonate veinlets. The rock also appeared to be oxidized (?). This is followed by various weak expressions of Summit Lakes zones with dominantly altered andesite. Noticeable foliation and sulfides + chlorite in one area with no sampling as well as noticeable sulfides+ foliation along the edges of the lamprophyre and the lamprophyre containing cubic pyrite itself. Sample were taken of these occurrences.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>5.80</b>	<b>AND Andesite</b>									
0 - 5.8: Variably oxidized and brecciated andesite.											
<<Alt: 0 - 5.76 Subtle (restricted to crystal margins, fractures) Silica>> Small quartz-filled fractures up to 3 cm thick.											
<<Vein: 4.36 - 4.48 100% Calcite-dominant (CAL > PY + PO + CHL + SER)>> Sulphide-absent.											
<<Vein: 5.36 - 5.49 70% Calcite-dominant (CAL > PY + PO + CHL + SER)>> Sulphide-absent.											
<b>5.80</b>	<b>6.71</b>	<b>MISS Missing Core</b>									
<b>6.71</b>	<b>21.89</b>	<b>AND Andesite</b>									
6.71 - 21.89: Intervals of silica-sericite, carbonate, and oxidation alteration. Variably brecciated.											
<<Min: 6.75 - 6.78 1% Pyrite>> Disseminated in unidentified dark grey mineral band.											
<<Alt: 6.71 - 10.23 Moderate (most crystals replaced, textural modification) Silica>> Range 1-3, average 3.											
<<Alt: 6.71 - 10.23 Moderate (most crystals replaced, textural modification) Sericite>> Range: 1-3, average: 3.											
<<Alt: 10.73 - 13.62 Moderate (most crystals replaced, textural modification) Carbonate>> Range: 1-3, average: 3.											
<<Alt: 16.49 - 164.96 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 20.24 - 21.89 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 20.24 - 21.89 Moderate (most crystals replaced, textural modification) Sericite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Vein: 10.24 - 13.65 6% Calcite-dominant (CAL > PY + PO + CHL + SER) 60 deg. >> Angles from 55-60. Sulphide-absent.									
		<<Vein: 14.68 - 15.15 10% Other veins (describe in Comments) 30 deg. >> Quartz-dominant with minor calcite, and sulphide-absent.									
		<<Struc: 6.71 - 7.68 Moderate (most crystals replaced, textural modification) Breccia>> Quartz-filled with minor sulphides.									
		<<Struc: 8.14 - 10.09 Moderate (most crystals replaced, textural modification) Breccia>> Variably brecciated - around 10-15%.									
		<<Struc: 10.73 - 11.65 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> Unidentified dark grey mineral foliation.									
		<<Struc: 12.31 - 13.93 Moderate (most crystals replaced, textural modification) Breccia>> Variably brecciated - around 30%.									
		<<Struc: 15.61 - 16.93 Moderate (most crystals replaced, textural modification) Breccia>> Variably brecciated - around 20%.									
		<<Struc: 19.66 - 20.24 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>> Unidentified dark grey mineral foliated at 20 degree TCA.									
		<<Struc: 21.41 - 21.61 Moderate (most crystals replaced, textural modification) Breccia>>									
		<b>21.89 31.19 AND Andesite</b>									
		21.89 - 31.19: Moderately veined green andesite.									
		<<Min: 25.92 - 26.56 1% Pyrite>>									
		<<Alt: 21.89 - 31.19 Subtle (restricted to crystal margins, fractures) Chlorite>> Pervasive chlorite alteration.									
		<<Vein: 25.92 - 27.36 20% Other veins (describe in Comments) 40 deg. >> Quartz dominant with minor calcite and 1% pyrite.									
		<<Vein: 27.15 - 27.36 100% Other veins (describe in Comments) 50 deg. >> Quartz-dominant with minor calcite.									
		<<Vein: 27.75 - 28.36 15% Other veins (describe in Comments) 70 deg. >> Quartz-dominant with minor calcite.									
		<<Vein: 30.11 - 31.19 20% Other veins (describe in Comments) 65 deg. >> Quartz-dominant.									
		<b>31.19 31.41 MISS Missing Core</b>									
		<b>31.41 32.53 AND Andesite</b>									
		31.41 - 32.53: Moderately veined green andesite.									
		<<Alt: 31.41 - 32.53 Subtle (restricted to crystal margins, fractures) Chlorite>> Pervasive chlorite alteration.									
		<<Vein: 31.41 - 32.53 15% Calcite-dominant (CAL > PY + PO + CHL + SER) 80 deg. >>									
		<b>32.53 32.89 MISS Missing Core</b>									
		<b>32.89 33.82 AND Andesite</b>									
		32.89 - 33.82: Moderately veined green andesite.									

# GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

748

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 32.89 - 33.82 0.01% Pyrite>> <<Alt: 32.89 - 33.82 Subtle (restricted to crystal margins, fractures) Chlorite>> Pervasive chlorite alteration. <<Vein: 32.89 - 33.82 15% Calcite-dominant (CAL > PY + PO + CHL + SER) 80 deg. >> 0.01% pyrite.											
<b>33.82</b>	<b>34.14</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>34.14</b>	<b>41.39</b>	<b>AND</b>	<b>Andesite</b>								
34.14 - 41.39: Brecciated andesite.											
<<Vein: 34.14 - 36.91 15% Other veins (describe in Comments) 80 deg. >> Quartz veins.											
<b>41.39</b>	<b>41.59</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>41.59</b>	<b>41.79</b>	<b>AND</b>	<b>Andesite</b>								
41.59 - 41.79: Brecciated andesite.											
<b>41.79</b>	<b>42.00</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>42.00</b>	<b>42.30</b>	<b>AND</b>	<b>Andesite</b>								
42 - 42.3: Brecciated andesite.											
<b>42.30</b>	<b>42.54</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>42.54</b>	<b>43.08</b>	<b>AND</b>	<b>Andesite</b>								
<b>43.08</b>	<b>43.23</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>43.23</b>	<b>43.76</b>	<b>AND</b>	<b>Andesite</b>								
<b>43.76</b>	<b>44.16</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>44.16</b>	<b>45.07</b>	<b>AND</b>	<b>Andesite</b>								
<<Vein: 44.79 - 45.05 25% Other veins (describe in Comments) 50 deg. >> Quartz veins.											
<b>45.07</b>	<b>45.50</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>45.50</b>	<b>45.78</b>	<b>AND</b>	<b>Andesite</b>								
<b>45.78</b>	<b>46.02</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>46.02</b>	<b>46.58</b>	<b>AND</b>	<b>Andesite</b>								
<b>46.58</b>	<b>46.85</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>46.85</b>	<b>47.40</b>	<b>AND</b>	<b>Andesite</b>								
<<Vein: 46.85 - 47.33 15% Other veins (describe in Comments) 45 deg. >> Quartz veins.											
<b>47.40</b>	<b>47.85</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>47.85</b>	<b>48.25</b>	<b>AND</b>	<b>Andesite</b>								

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **748**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 48.01 - 56.33 Moderate (most crystals replaced, textural modification) Silica>>											
<b>48.25</b>	<b>48.45</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>48.45</b>	<b>53.66</b>	<b>AND</b>	<b>Andesite</b>								
<<Struc: 48.45 - 53.66 Moderate (most crystals replaced, textural modification) Breccia>> Variably brecciated and quartz filled.											
<b>53.66</b>	<b>53.95</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>53.95</b>	<b>56.33</b>	<b>AND</b>	<b>Andesite</b>								
<<Struc: 53.95 - 56.33 Intense (no primary minerals, textures mostly destroyed) Breccia>> Variably brecciated and quartz filled.											
<b>56.33</b>	<b>61.75</b>	<b>FLT</b>	<b>Fault</b>								
56.33 - 61.75: Massive quartz filled and brecciated fault.											
<<Alt: 56.33 - 61.75 Intense (no primary minerals, textures mostly destroyed) Silica>>											
<<Struc: 56.33 - 61.75 Intense (no primary minerals, textures mostly destroyed) Breccia>> Quartz infill.											
<b>61.75</b>	<b>63.52</b>	<b>AND</b>	<b>Andesite</b>								
<<Alt: 61.75 - 63.52 Moderate (most crystals replaced, textural modification) Silica>>											
<<Struc: 61.75 - 63.52 Moderate (most crystals replaced, textural modification) Breccia>> Quartz-infilled.											
<b>63.52</b>	<b>63.77</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>63.77</b>	<b>64.88</b>	<b>AND</b>	<b>Andesite</b>								
<<Min: 64.03 - 64.05 3% Pyrite>> In clusters up to 5 mm wide.											
<<Struc: 63.77 - 64.88 Subtle (restricted to crystal margins, fractures) Breccia>>											
<b>64.88</b>	<b>65.01</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>65.01</b>	<b>66.30</b>	<b>AND</b>	<b>Andesite</b>								
<<Min: 65.72 - 65.9 0.01% Pyrite>>											
<<Struc: 65.01 - 66.3 Subtle (restricted to crystal margins, fractures) Breccia>>											
<b>66.30</b>	<b>66.48</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>66.48</b>	<b>66.88</b>	<b>AND</b>	<b>Andesite</b>								
<<Struc: 66.48 - 66.88 Subtle (restricted to crystal margins, fractures) Breccia>>											
<b>66.88</b>	<b>67.41</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>67.41</b>	<b>68.07</b>	<b>AND</b>	<b>Andesite</b>								
<<Min: 67.41 - 68.07 0.05% Pyrite>> Associated with dark grey/black unidentified mineral.											
<<Struc: 67.41 - 68.04 Subtle (restricted to crystal margins, fractures) Breccia>>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **748**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>68.07</b>	<b>68.45</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>68.45</b>	<b>69.13</b>	<b>AND</b>									
		<b>Andesite</b>									
<<Min: 68.85 - 68.98 0.01% Pyrite>> <<Vein: 68.85 - 68.98 90% Other veins (describe in Comments) 25 deg. >> 0.01% pyrite. <<Struc: 68.45 - 69.13 Moderate (most crystals replaced, textural modification) Breccia>>											
<b>69.13</b>	<b>69.36</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>69.36</b>	<b>73.99</b>	<b>AND</b>									
		<b>Andesite</b>									
<<Min: 73.33 - 73.58 1% Pyrite>> <<Alt: 70.71 - 73.99 Moderate (most crystals replaced, textural modification) Silica>> Ranges from 1-5 over this interval. <<Struc: 69.36 - 73.99 Moderate (most crystals replaced, textural modification) Breccia>>											
<b>73.99</b>	<b>74.28</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>74.28</b>	<b>76.19</b>	<b>AND</b>									
		<b>Andesite</b>									
<<Min: 75.1 - 76.07 10% Pyrite>> <<Alt: 74.28 - 76.19 Moderate (most crystals replaced, textural modification) Silica>> Ranges from 1-5 over this interval. <<Struc: 74.28 - 76.19 Moderate (most crystals replaced, textural modification) Breccia>>											
<b>76.19</b>	<b>77.74</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>77.74</b>	<b>78.33</b>	<b>AND</b>									
		<b>Andesite</b>									
77.74 - 78.33: Slightly oxidized and silicified andesite breccia  <<Min: 77.74 - 77.91 2% Pyrite>> Coarse - up to 2 mm wide in black unidentified mineral. <<Alt: 77.74 - 77.91 Moderate (most crystals replaced, textural modification) Silica>> <<Alt: 78.21 - 84.95 Moderate (most crystals replaced, textural modification) Silica>> Silicification averages around 3 <<Alt: 78.21 - 84.95 Subtle (restricted to crystal margins, fractures) Sericite>> trace sericitization <<Struc: 77.74 - 77.91 Moderate (most crystals replaced, textural modification) Breccia>>											
<b>78.33</b>	<b>78.64</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>78.64</b>	<b>79.13</b>	<b>AND</b>									
		<b>Andesite</b>									
78.64 - 79.13: Silicified/oxidized andesite breccia											
<b>79.13</b>	<b>79.55</b>	<b>MISS</b>									
		<b>Missing Core</b>									
<b>79.86</b>	<b>81.14</b>	<b>MISS</b>									
		<b>Missing Core</b>									

74.97	76.07	1.10
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# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **748**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>81.14</b>	<b>81.44</b>	<b>AND Andesite</b>									
81.14 - 81.44: Slightly silicified and oxidized andesite.											
<b>81.44</b>	<b>82.08</b>	<b>MISS Missing Core</b>									
<b>82.08</b>	<b>83.67</b>	<b>AND Andesite</b>									
82.08 - 83.67: Silicified and oxidized andesite breccia											
<b>83.67</b>	<b>83.97</b>	<b>MISS Missing Core</b>									
<b>83.97</b>	<b>84.95</b>	<b>AND Andesite</b>									
<b>84.95</b>	<b>92.05</b>	<b>MISS Missing Core</b>									
84.95 - 92.05: Missing box											
<b>92.05</b>	<b>118.99</b>	<b>AND Andesite</b>	95.10	96.01	0.91						
92.05 - 118.99: Moderately silicified andesite with local clusters of carbonate veining.n local interval with disseminated py which a sample has been taken.											
<<Min: 92.05 - 98.15 3% Pyrite>> disseminated throughout this interval.											
<<Alt: 92.05 - 119.09 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 92.05 - 119.09 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Vein: 111.37 - 111.95 Calcite-dominant (CAL > PY + PO + CHL + SER) 50 deg. >>											
<<Vein: 113.69 - 119.09 65% Calcite-dominant (CAL > PY + PO + CHL + SER) 50 deg. >>											
<b>118.99</b>	<b>125.58</b>	<b>SLZN Summit Lake Zone</b>									
118.99 - 125.58: Weak expression of the SLZN. Slightly foliated and altered with some disseminated sulfides.											
<<Min: 119.18 - 125.58 3% Pyrite>> Disseminated in chlorite rich locations.											
<<Alt: 119.18 - 125.58 Weak (partial crystal replacement) Silica>>											
<<Alt: 119.18 - 125.58 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 119.18 - 125.58 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 119.18 - 125.58 30% Calcite-dominant (CAL > PY + PO + CHL + SER) 48 deg. >>											
<<Struc: 119.18 - 125.58 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>125.58</b>	<b>132.71</b>	<b>SLZN Summit Lake Zone</b>	128.02	128.63	0.61						
125.58 - 132.71: Moderately to strongly foliated, as well as chlorite rich. Shear veins almost appear to be brecciated. Disseminated sulfides throughout the interval. Multiple samples taken.											
<<Min: 125.58 - 132.71 10% Pyrite>>											
<<Min: 125.58 - 132.71 2% Pyrrhotite>>											
			128.63	129.24	0.61						
			129.24	129.84	0.60						

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 125.58 - 132.71		Subtle (restricted to crystal margins, fractures) Sericite>>	129.84	130.45	0.61						
<<Alt: 125.58 - 132.71		Subtle (restricted to crystal margins, fractures) K-feldspar>>	130.45	131.06	0.61						
<<Alt: 125.58 - 132.71		Strong (complete replacement, some primary QZ and textures) Chlorite>>	131.06	131.67	0.61						
<<Alt: 125.58 - 132.71		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Vein: 125.58 - 132.71		70% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >>									
<<Struc: 125.58 - 132.71		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>132.71</b>	<b>142.46</b>	<b>AND Andesite</b>									
132.71 - 142.46: Similar alteration as the start the hole. Slightly silicified and oxidized alteration											
<<Alt: 132.71 - 142.46		Weak (partial crystal replacement) Silica>>									
<<Alt: 132.71 - 142.46		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Vein: 132.71 - 142.46		60% Calcite-dominant (CAL > PY + PO + CHL + SER) 42 deg. >>									
<b>142.46</b>	<b>142.77</b>	<b>MISS Missing Core</b>									
<b>142.77</b>	<b>143.41</b>	<b>SLZN Summit Lake Zone</b>									
142.77 - 143.41: Weak expression of the SLZN											
<<Min: 142.77 - 143.41		2% Pyrite>>									
<<Alt: 142.77 - 143.41		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 142.77 - 143.41		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 142.77 - 143.41		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Vein: 142.77 - 143.41		Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >>									
<b>143.41</b>	<b>146.30</b>	<b>AND Andesite</b>									
<<Alt: 143.41 - 146.3		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 143.41 - 146.3		Weak (partial crystal replacement) Sericite>>									
<<Alt: 143.41 - 146.3		Moderate (most crystals replaced, textural modification) Chlorite>>									
<b>146.30</b>	<b>147.22</b>	<b>MISS Missing Core</b>									
<b>147.22</b>	<b>153.86</b>	<b>SLZN Summit Lake Zone</b>	148.65	149.53	0.88						
147.22 - 153.86: Strongly foliated and chloritized with diss.- to semi-massive sulfides, however, previous samples indicated that shear vein has no grade...why?											
<<Min: 147.22 - 153.86		30% Pyrite>>									
<<Min: 147.22 - 153.86		3% Pyrrhotite>>									
<<Alt: 147.22 - 153.86		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 147.22 - 153.86		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Alt: 147.22 - 153.86		Subtle (restricted to crystal margins, fractures) Carbonate>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Vein: 147.22 - 153.86 40% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >> <<Struc: 147.22 - 153.86 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
		<b>153.86 160.96 AND Andesite</b> <<Alt: 153.86 - 160.96 Strong (complete replacement, some primary QZ and textures) Sericite>> <<Alt: 153.86 - 160.96 Subtle (restricted to crystal margins, fractures) K-feldspar>> <<Alt: 153.86 - 160.96 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 153.86 - 160.96 25% Other veins (describe in Comments) 47 deg. >> Quartz domiante veining with minor carbonate and no sulfides									
		<b>160.96 162.79 AND Andesite</b> <<Alt: 160.96 - 162.79 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 160.96 - 162.79 Subtle (restricted to crystal margins, fractures) Chlorite>> <<Alt: 160.96 - 162.79 Moderate (most crystals replaced, textural modification) Carbonate>> <<Struc: 160.96 - 162.79 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
		<b>162.79 164.96 SLZN Summit Lake Zone</b> 162.79 - 164.96: Weak expression of SLZN  <<Min: 162.79 - 164.96 3% Pyrite>> <<Alt: 162.79 - 164.96 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 162.79 - 164.96 Moderate (most crystals replaced, textural modification) Carbonate>> <<Vein: 162.8 - 164.96 Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> <<Struc: 162.79 - 164.96 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<b>164.96 172.15 AND Andesite</b> 164.96 - 172.15: Local cb veining.  <<Min: 164.96 - 172.15 1% Pyrite>> <<Alt: 164.96 - 172.15 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 164.96 - 172.15 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 164.96 - 172.15 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 164.96 - 172.15 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<b>172.15 173.28 SLZN Summit Lake Zone</b> 172.15 - 173.28: Shear veining on the edge of a lamprophyre contact.  <<Min: 172.15 - 173.28 15% Pyrite>> <<Min: 172.15 - 173.28 1% Pyrrhotite>>	172.52	173.28	0.76						

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **748**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 172.15 - 173.28		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 172.15 - 173.28		Subtle (restricted to crystal margins, fractures) K-feldspar>> unsure about this alteration.									
<<Alt: 172.15 - 173.28		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 172.15 - 173.28		Weak (partial crystal replacement) Carbonate>>									
<<Vein: 172.15 - 173.28		Calcite-dominant (CAL > PY + PO + CHL + SER) 48 deg. >>									
<<Struc: 172.15 - 173.28		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>173.28</b>	<b>180.93</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
173.28 - 180.93: gradational crystal size along the edges of the contacts.											
<<Min: 173.28 - 180.93		7% Pyrite>> euhedral cubic pyrite found all over the lamprophyre.									
<b>180.93</b>	<b>181.97</b>	<b>SLZN Summit Lake Zone</b>	180.93	181.97	1.04						
180.93 - 181.97: Shear veining along the edge of a lamprophyre.											
<<Min: 180.93 - 181.97		35% Pyrite>>									
<<Alt: 180.93 - 181.97		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 180.93 - 181.97		Intense (no primary minerals, textures mostly destroyed) Chlorite>>									
<<Alt: 180.93 - 181.97		Moderate (most crystals replaced, textural modification) Carbonate>>									
<<Vein: 180.93 - 181.97		80% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >>									
<<Struc: 180.93 - 181.97		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>181.97</b>	<b>192.33</b>	<b>AND Andesite</b>									
<<Min: 181.97 - 192.33		2% Pyrite>> Found disseminated throughout and in local stringers									
<<Alt: 181.97 - 192.33		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 181.97 - 192.33		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 181.97 - 192.33		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Alt: 181.97 - 192.33		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<b>192.33</b>	<b>193.12</b>	<b>MISS Missing Core</b>									
<b>193.12</b>	<b>194.34</b>	<b>AND Andesite</b>									
<<Min: 193.12 - 194.34		1% Pyrite>>									
<<Alt: 193.12 - 194.34		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 193.12 - 194.34		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 193.12 - 194.34		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Alt: 193.12 - 194.34		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<b>194.34</b>	<b>194.58</b>	<b>MISS Missing Core</b>									

Project:

Scottie Gold

Hole Number:

748

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>194.58</b>	<b>195.32</b>	<b>AND Andesite</b>									
<<Min: 194.58 - 195.32 1% Pyrite>>											
<<Alt: 194.58 - 195.32 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 194.58 - 195.32 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 194.58 - 195.32 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>195.32</b>	<b>196.02</b>	<b>MISS Missing Core</b>									
<b>196.02</b>	<b>198.46</b>	<b>AND Andesite</b>									
<<Min: 196.02 - 198.46 1% Pyrite>>											
<<Alt: 196.02 - 198.46 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 196.02 - 198.46 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 196.02 - 198.46 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>198.46</b>	<b>199.64</b>	<b>MISS Missing Core</b>									
<b>199.64</b>	<b>202.39</b>	<b>AND Andesite</b>									
<<Min: 199.64 - 202.39 1% Pyrite>>											
<<Alt: 199.64 - 202.39 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 199.64 - 202.39 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 199.64 - 202.39 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>202.39</b>	<b>202.63</b>	<b>MISS Missing Core</b>									
<b>202.63</b>	<b>203.24</b>	<b>AND Andesite</b>									
<<Alt: 202.63 - 203.24 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 202.63 - 203.24 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 202.63 - 203.24 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>203.24</b>	<b>240.79</b>	<b>AND Andesite</b>									
203.24 - 240.79: Variable in alteration and with trace local foliations											
<<Alt: 203.55 - 210.92 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 203.55 - 210.92 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 203.55 - 210.92 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 210.92 - 216.44 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Alt: 210.92 - 216.44 Weak (partial crystal replacement) Chlorite>>											
<<Alt: 210.92 - 216.44 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 210.92 - 216.44 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 216.44 - 224.7 Strong (complete replacement, some primary QZ and textures) Sericite>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**748**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 216.44 - 224.7		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Alt: 216.44 - 224.7		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 216.44 - 224.7		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Alt: 224.7 - 234.82		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Alt: 224.7 - 234.82		Weak (partial crystal replacement) Chlorite>>									
<<Alt: 224.7 - 234.82		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 234.82 - 240.79		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 234.82 - 240.79		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Alt: 234.82 - 240.79		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 234.82 - 240.79		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Struc: 211.07 - 211.84		Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<<Struc: 223.24 - 224.36		Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<<Struc: 235 - 235.31		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<<Struc: 235.64 - 236.13		Weak (partial crystal replacement) Brittle fault gouge>>									
<<Struc: 238.93 - 239.79		Moderate (most crystals replaced, textural modification) Brittle fault gouge>>									
<b>End of Hole @ 240.79</b>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **750**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/17/2018	
UTM Easting:		Core Size:	Azimuth:	225.7	Date Logging Complete:	8/18/2018
UTM Northing:		Casing Pulled?:	Dip:	-32	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	178.1	Drill Rig:	
Local Easting:	6981.43	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3559.52	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3018.34			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Hole starts with intensely siliceous and oxidized andesite with lots of qtz and cb veins brecciating the host rock. This continued by alternating altered andesite and local weak expression of the South Lake Shear Zone (SLSZ). This is followed by alternating slightly altered andesite and dyke.

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>20.73</b>	<b>AND Andesite</b>	14.20	15.03	0.83						
<p>0 - 20.73: Altered andesite. Variation in vein types between late stage qtz and qtz-cb veins, however, no apparent sulfides in any veins. Veins are in random orientation, cross-cutting each other and brecciating the host rock. Oxidation alteration can vary in intensity (from 0-5).</p> <p>&lt;&lt;Alt: 0 - 20.82 Intense (no primary minerals, textures mostly destroyed) Silica&gt;&gt;</p>											
<b>20.73</b>	<b>20.82</b>	<b>AND Andesite</b>									
<p>20.73 - 20.82: Slightly oxidized alteration. Numerous chaotic calcite and qtz veins, brecciating the host rock. No sulfides present.</p>											
<b>20.82</b>	<b>26.73</b>	<b>AND Andesite</b>									
<p>20.82 - 26.73: Moderately siliceous altered andesite. Veins throughout the the interval, however, they are fracture veins (qtz, cb) with no apparent sulfides.</p> <p>&lt;&lt;Alt: 20.82 - 26.73 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Vein: 20.82 - 26.73 30% Other veins (describe in Comments) 50 deg. &gt;&gt;</p>											
<b>26.73</b>	<b>32.95</b>	<b>AND Andesite</b>									
<p>26.73 - 32.95: Siliceous altered andesite. Vein density increased since last interval, however, the veins are all qtz veins (some extensional).</p> <p>&lt;&lt;Alt: 26.73 - 32.95 Strong (complete replacement, some primary QZ and textures) Silica&gt;&gt;</p>											



## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**750**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Vein: 26.73 - 32.95 70% Other veins (describe in Comments) 45 deg. >> qtz fracture veins. Not all extensional									
<b>32.95</b>	<b>33.89</b>	<b>VEIN massive vein</b>									
32.95 - 33.89: Shows signs of brecciated host rock on the ends of the interval. Massive quartz vein. Minor potassic alteration.											
		<<Alt: 32.95 - 33.89 Weak (partial crystal replacement) K-feldspar>>									
		<<Vein: 32.95 - 33.89 100% Other veins (describe in Comments) 43 deg. >> Massive qtz vein									
<b>33.89</b>	<b>34.69</b>	<b>MISS Missing Core</b>									
<b>34.69</b>	<b>35.75</b>	<b>AND Andesite</b>									
			34.72	35.72	1.00						
34.69 - 35.75: Siliceous and potassic altered andesite. Disseminated sulfides stringers present but with no real orientation. Oxidized interval.											
		<<Min: 34.69 - 35.75 3% Pyrite>>									
		<<Alt: 34.69 - 35.75 Strong (complete replacement, some primary QZ and textures) Silica>>									
		<<Alt: 34.69 - 35.75 Weak (partial crystal replacement) K-feldspar>>									
		<<Vein: 34.69 - 35.75 80% Other veins (describe in Comments) 40 deg. >> Veins angle can vary between 20-30									
		<<Vein: 34.69 - 39.75 70% Other veins (describe in Comments)>> Brittle like qtz veins with minor sulfides. Chaotic in orientation. Tca angle can vary between 10-60. Sample taken.									
<b>35.75</b>	<b>35.97</b>	<b>MISS Missing Core</b>									
<b>35.97</b>	<b>37.28</b>	<b>AND Andesite</b>									
35.97 - 37.28: Siliceous and potassic alteration present. Abundant qtz veins present with trace disseminated sulfides. Vein orientation is chaotic.											
		<<Min: 35.97 - 37.28 3% Pyrite>>									
		<<Alt: 35.97 - 37.28 Strong (complete replacement, some primary QZ and textures) Silica>>									
		<<Alt: 35.97 - 37.28 Weak (partial crystal replacement) K-feldspar>>									
<b>37.28</b>	<b>37.58</b>	<b>MISS Missing Core</b>									
<b>37.58</b>	<b>38.68</b>	<b>AND Andesite</b>									
37.58 - 38.68: Siliceous and potassic alteration present. Abundant qtz veins present with trace disseminated sulfides. Vein orientation is chaotic.											
		<<Alt: 37.58 - 38.68 Strong (complete replacement, some primary QZ and textures) Silica>>									
		<<Alt: 37.58 - 38.68 Weak (partial crystal replacement) K-feldspar>>									
<b>38.68</b>	<b>39.17</b>	<b>MISS Missing Core</b>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>39.17</b>	<b>39.75</b>	<b>AND Andesite</b>									
<p>39.17 - 39.75: Siliceous and potassic alteration present. Abundant qtz veins present with trace disseminated sulfides. Vein orientation is chaotic.</p> <p>&lt;&lt;Min: 39.17 - 39.75 3% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 39.17 - 39.75 Strong (complete replacement, some primary QZ and textures) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 39.17 - 39.75 Weak (partial crystal replacement) K-feldspar&gt;&gt;</p>											
<b>39.75</b>	<b>47.70</b>	<b>MISS Missing Core</b>									
<b>47.70</b>	<b>48.46</b>	<b>AND Andesite</b>									
<p>47.7 - 48.46: Relatively unaltered andesite with local qtz veins.</p>											
<b>48.46</b>	<b>51.97</b>	<b>AND Andesite</b>									
<p>48.46 - 51.97: Relatively unaltered andesite local traces of py in cb hosted veins.</p> <p>&lt;&lt;Alt: 48.46 - 51.97 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p>											
<b>51.97</b>	<b>55.44</b>	<b>SLZN Summit Lake Zone</b>									
<p>51.97 - 55.44: Foliation found locally in the interval. Chloritization strongest in the foliations with minor potassic alteration. Dominate vein type is the banded cb-sfx vein with qtz, and cb veins locally found.</p> <p>&lt;&lt;Min: 51.97 - 55.44 10% Pyrite&gt;&gt; dominately found in the veins and locally disseminated throughout the interval.</p> <p>&lt;&lt;Alt: 51.97 - 55.44 Subtle (restricted to crystal margins, fractures) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 51.97 - 55.44 Weak (partial crystal replacement) Chlorite&gt;&gt;</p> <p>&lt;&lt;Vein: 51.97 - 55.44 30% Composite sulphide + calcite (banded SX- and CC-dominant) 48 deg. &gt;&gt;</p> <p>&lt;&lt;Struc: 51.97 - 52.73 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>55.44</b>	<b>64.13</b>	<b>AND Andesite</b>									
<p>55.44 - 64.13: Slightly siliceous andesite with brittle qtz/cb veins</p> <p>&lt;&lt;Alt: 55.44 - 64.13 Subtle (restricted to crystal margins, fractures) Silica&gt;&gt;</p>											
<b>64.13</b>	<b>69.52</b>	<b>AND Andesite</b>									
<p>64.13 - 69.52: Siliceous altered andesite, varying in intensity (3-5). Locally foliated with qtz-cb veins. Brittle cb veins throughout the interval.</p> <p>&lt;&lt;Alt: 64.13 - 65.38 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 65.38 - 65.81 Intense (no primary minerals, textures mostly descstroyed) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 65.81 - 67.97 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Struc: 64.43 - 64.77 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 65.84 - 66.23		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<<Struc: 68.58 - 68.98		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>69.52</b>	<b>82.30</b>	<b>AND Andesite</b>									
69.52 - 82.3: Relatively unaltered andesite with locally large, shallow qtz-ser +-cb veins. Sericitization locally near the veins.											
<<Alt: 69.52 - 82.3		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 69.52 - 82.3		Weak (partial crystal replacement) Sericite>> found locally in the veins									
<<Vein: 69.52 - 82.3		20% Other veins (describe in Comments) 12 deg. >> dominately the shallow qtz-ser+-cb veins. No sulfides present.									
<b>82.30</b>	<b>82.94</b>	<b>SLZN Summit Lake Zone</b>									
82.3 - 82.94: Sericitized, chloritized SLSZ. No apparent sulfides. Dominate vein is a cb-chl-ser-qtz vein with a trace of disseminated py. Foliation is also present.											
<<Min: 82.3 - 82.94		3% Pyrite>>									
<<Alt: 82.3 - 82.94		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 82.3 - 82.94		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Vein: 82.3 - 82.94		20% Calcite-dominant (CAL > PY + PO + CHL + SER) 55 deg. >> cb-ser-chl-sfx veining with qtz-extensional overprinting.									
<<Struc: 82.3 - 82.94		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>82.94</b>	<b>90.62</b>	<b>AND Andesite</b>									
82.94 - 90.62: Relatively unaltered andesite with locally siliceous alteration. Locally large qtz-ser veins present with shallow angle tca.											
<<Alt: 82.94 - 90.62		Weak (partial crystal replacement) Silica>>									
<b>90.62</b>	<b>97.54</b>	<b>AND Andesite</b>									
90.62 - 97.54: Weakly chloritized andesite with local qtz and cb veins with trace disseminated sulfides (<1%).											
<b>97.54</b>	<b>99.36</b>	<b>SLZN Summit Lake Zone</b>									
97.54 - 99.36: Strongly sericitized and moderately chloritized summit lake shear zone. Trace of cb alteration. Alteration strongest proximal to foliation. Cb-sfx banded veins present.											
<<Min: 97.54 - 99.46		10% Pyrite>>									
<<Min: 97.54 - 99.46		2% Pyrrhotite>>									
<<Alt: 97.54 - 99.46		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 97.54 - 99.46		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 97.54 - 99.46		Subtle (restricted to crystal margins, fractures) Carbonate>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Vein: 97.54 - 99.46 30% Composite sulphide + calcite (banded SX- and CC-dominant) 65 deg. >>									
		<<Struc: 97.54 - 97.84 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<<Struc: 97.93 - 98.24 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<<Struc: 98.91 - 99.21 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
		<b>99.36 101.13 AND Andesite</b>									
		<<Alt: 99.46 - 101.13 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 99.46 - 101.13 Weak (partial crystal replacement) Chlorite>>									
		<b>101.13 101.68 SLZN Summit Lake Zone</b>									
		101.13 - 101.68: Moderately sericitized and chloritized. Banded cb-sfx veins present. Alteration and veins proximal to foliation.									
		<<Min: 101.13 - 101.68 5% Pyrite>>									
		<<Alt: 101.13 - 101.68 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 101.13 - 101.68 Weak (partial crystal replacement) Chlorite>>									
		<<Vein: 101.13 - 101.68 30% Composite sulphide + calcite (banded SX- and CC-dominant) 43 deg. >>									
		<<Struc: 101.13 - 101.68 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<b>101.68 106.38 AND Andesite</b>									
		<b>106.38 106.68 SLZN Summit Lake Zone</b>									
		<<Min: 106.38 - 106.68 15% Pyrite>>									
		<<Alt: 106.38 - 106.68 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 106.38 - 106.68 Weak (partial crystal replacement) Chlorite>>									
		<<Vein: 106.38 - 106.68 40% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >>									
		<b>106.68 108.75 AND Andesite</b>									
		106.68 - 108.75: Sulfide stringers locally present.									
		<b>108.75 109.15 SLZN Summit Lake Zone</b>									
		<<Min: 108.75 - 109.15 25% Pyrite>>									
		<<Alt: 108.75 - 109.15 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 108.75 - 109.15 Weak (partial crystal replacement) Chlorite>>									
		<<Vein: 108.75 - 109.15 50% Composite sulphide + calcite (banded SX- and CC-dominant) 55 deg. >>									
		<b>109.15 111.50 DIA Diabase (fine-grained pale green "microdiorite" dikes)</b>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>111.50</b>	<b>114.36</b>	<b>DIA Diabase (fine-grained pale green "microdiorite" dikes)</b>									
<b>114.36</b>	<b>133.17</b>	<b>SLZN Summit Lake Zone</b>									
<p>114.36 - 133.17: strongly altered SLSZ. 3 main foliated locations. Veins dominantly banded sfx-cb veins. Orientations in veins can vary from 0-50. Sulfides observed appear to be only pyrite. Pyrite found along edges of lapillis and veins.</p> <p>&lt;&lt;Min: 114.36 - 133.17 30% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 114.36 - 133.17 Moderate (most crystals replaced, textural modification) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 114.36 - 133.17 Weak (partial crystal replacement) K-feldspar&gt;&gt;</p> <p>&lt;&lt;Alt: 114.36 - 133.17 Strong (complete replacement, some primary QZ and textures) Chlorite&gt;&gt;</p> <p>&lt;&lt;Vein: 114.36 - 133.17 70% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. &gt;&gt; Dominate veins range from 0-50 tca. Notable qtz veining overprinting prior mineralized veins.</p> <p>&lt;&lt;Struc: 120.55 - 120.85 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p> <p>&lt;&lt;Struc: 122.32 - 122.62 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p> <p>&lt;&lt;Struc: 124.97 - 125.73 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>133.17</b>	<b>143.07</b>	<b>AND Andesite</b>									
<p>133.17 - 143.07: Bleached, silicified andesite. Qtz veins with disseminated py locally found in the interval.</p> <p>&lt;&lt;Alt: 133.17 - 143.07 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 133.17 - 143.07 Subtle (restricted to crystal margins, fractures) Sericite&gt;&gt;</p> <p>&lt;&lt;Struc: 141.55 - 142.04 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)&gt;&gt;</p>											
<b>143.07</b>	<b>146.97</b>	<b>AND Andesite</b>									
<p>143.07 - 146.97: Altered andesite with locally weak foliation. Disseminated py found throughout with larger qtz veins apparent.</p> <p>&lt;&lt;Min: 143.07 - 146.97 30% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 143.07 - 146.97 Weak (partial crystal replacement) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 143.07 - 146.97 Weak (partial crystal replacement) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 143.07 - 146.97 Weak (partial crystal replacement) Chlorite&gt;&gt;</p> <p>&lt;&lt;Alt: 146.9 - 147.37 Subtle (restricted to crystal margins, fractures) K-feldspar&gt;&gt;</p>											
<b>146.97</b>	<b>147.37</b>	<b>VEIN massive vein</b>									
<p>146.97 - 147.37: Massive qtz vein with minor feldspars and cb</p>											
<b>147.37</b>	<b>154.23</b>	<b>AND Andesite</b>									
<p>147.37 - 154.23: Weakly altered andesite with local cb veins.</p>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**750**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>154.23</b>	<b>155.57</b>	<b>SLZN Summit Lake Zone</b>									
154.23 - 155.57: Moderately foliated shear zone with moderate sericite alteration.											
<<Min: 154.23 - 155.57 60% Pyrite>>											
<<Alt: 154.23 - 155.57 Strong (complete replacement, some primary QZ and textures) Sericite>>											
<<Vein: 154.23 - 155.57 60% Composite sulphide + calcite (banded SX- and CC-dominant) 38 deg. >>											
<<Struc: 154.23 - 155.57 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>155.57</b>	<b>156.18</b>	<b>AND Andesite</b>	155.72	156.94	1.22						
<b>156.18</b>	<b>157.00</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 156.18 - 157 30% Pyrite>>											
<<Alt: 156.18 - 157 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 156.18 - 157 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Vein: 156.18 - 157 40% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >>											
<b>157.00</b>	<b>168.22</b>	<b>AND Andesite</b>									
157 - 168.22: Crystall tuff lapilli andesite? Locally foliated/altered. Local large qtz veins with disseminated sulfides.											
<b>168.22</b>	<b>168.52</b>	<b>MISS Missing Core</b>									
<b>168.52</b>	<b>168.92</b>	<b>DIA Diabase (fine-grained pale green "microdiorite" dikes)</b>									
<b>168.92</b>	<b>169.10</b>	<b>MISS Missing Core</b>									
<b>169.10</b>	<b>170.17</b>	<b>DIA Diabase (fine-grained pale green "microdiorite" dikes)</b>									
<b>170.17</b>	<b>178.10</b>	<b>AND Andesite</b>									
<b>End of Hole @ 178.1</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **752**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/21/2018	
UTM Easting:		Core Size:	Azimuth:	249.73	Date Logging Complete:	8/22/2018
UTM Northing:		Casing Pulled?:	Dip:	-19	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	165.81	Drill Rig:	
Local Easting:	6980.09	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3560.56	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3012.2			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Re-logging hole 752. Even though the hole had significant structures (i.e. breccias and locally strong- to intense foliation/ alteration), assay from this hole yield very low grades of gold (under .01 oz/t). Alterations and foliations were measured throughout the unit. This hole could be an example of just missing the intercept but still showing alterations and foliations. 4 samples were taken in this hole.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>40.51</b>	<b>AND Andesite</b>	31.91	32.58	0.67						
<p>0 - 40.51: Moderate to Strongly brecciated andesite. Oxidation and silica alteration varies within the interval. Small amount of disseminated py and other alteration (sample taken). Veins are chaotic with no orientation and qtz&gt;cb veins in type.</p> <p>&lt;&lt;Min: 31.94 - 32.74 10% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 0 - 6.46 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 6.46 - 9.05 Intense (no primary minerals, textures mostly destroyed) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 9.05 - 14.17 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 14.17 - 20.54 Strong (complete replacement, some primary QZ and textures) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 20.54 - 23.8 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 23.8 - 27.43 Intense (no primary minerals, textures mostly destroyed) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 27.43 - 34.75 Strong (complete replacement, some primary QZ and textures) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 31.94 - 32.74 Strong (complete replacement, some primary QZ and textures) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 31.94 - 32.74 Subtle (restricted to crystal margins, fractures) K-feldspar&gt;&gt;</p> <p>&lt;&lt;Alt: 34.75 - 38.04 Moderate (most crystals replaced, textural modification) Silica&gt;&gt;</p> <p>&lt;&lt;Alt: 38.04 - 40.51 Strong (complete replacement, some primary QZ and textures) Silica&gt;&gt;</p> <p>&lt;&lt;Struc: 0 - 6.22 Moderate (most crystals replaced, textural modification) Breccia&gt;&gt; qtz+cb breccia</p> <p>&lt;&lt;Struc: 6.22 - 9.02 Intense (no primary minerals, textures mostly destroyed) Breccia&gt;&gt; qtz+cb breccia</p>											



From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 9.02 - 17.37		Moderate (most crystals replaced, textural modification) Breccia>> qtz+cb breccia									
<<Struc: 17.37 - 20.03		Intense (no primary minerals, textures mostly descstroyed) Breccia>> qtz+cb breccia									
<<Struc: 20.03 - 25.82		Moderate (most crystals replaced, textural modification) Breccia>> qtz+cb breccia									
<<Struc: 25.82 - 36.64		Intense (no primary minerals, textures mostly descstroyed) Breccia>> qtz+cb breccia									
<<Struc: 36.64 - 38.07		Subtle (restricted to crystal margins, fractures) Breccia>> qtz+cb breccia									
<<Struc: 38.07 - 41.15		Intense (no primary minerals, textures mostly descstroyed) Breccia>> qtz+cb breccia									
<b>40.51</b>	<b>61.42</b>	<b>AND</b>									
40.51 - 61.42: Qtz-cb brecciated andesite. Brecciated ranges in intensity from 1-5 as well as silica/sericite alteration.											
<<Alt: 40.51 - 41.15		Intense (no primary minerals, textures mostly descstroyed) Silica>>									
<<Alt: 40.51 - 55.08		Intense (no primary minerals, textures mostly descstroyed) Silica>>									
<<Alt: 40.51 - 55.08		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 40.51 - 61.42		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 40.51 - 61.42		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 41.15 - 43.56		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 41.15 - 43.56		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 43.56 - 55.08		Intense (no primary minerals, textures mostly descstroyed) Silica>>									
<<Alt: 43.56 - 55.08		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 55.08 - 61.42		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 55.08 - 61.42		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 55.08 - 61.42		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Struc: 41.15 - 43.56		Moderate (most crystals replaced, textural modification) Breccia>> qtz+cb breccia									
<<Struc: 43.56 - 55.08		Intense (no primary minerals, textures mostly descstroyed) Breccia>> qtz+cb breccia									
<<Struc: 55.08 - 59.28		Strong (complete replacement, some primary QZ and textures) Brittle fault gouge>>									
<<Struc: 59.28 - 61.42		Moderate (most crystals replaced, textural modification) Breccia>>									
<b>61.42</b>	<b>61.72</b>	<b>AND</b>									
<b>Andesite</b>											
<b>61.72</b>	<b>68.64</b>	<b>MISS</b>									
<b>Missing Core</b>											
<<Min: 68.58 - 82.3		2% Pyrite>> disseminated py locally found in cc veins									
<b>68.64</b>	<b>82.30</b>	<b>AND</b>									
<b>Andesite</b>											
68.64 - 82.3: Locally altered and foliated.											
<<Alt: 70.23 - 73.94		Weak (partial crystal replacement) Silica>>									
<<Alt: 70.23 - 73.94		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 70.23 - 73.94		Weak (partial crystal replacement) Chlorite>>									

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**752**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 73.94 - 74.37 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 73.94 - 74.37 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 74.37 - 76.2 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 74.37 - 76.2 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 74.37 - 76.2 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 76.2 - 82.3 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 76.2 - 82.3 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 76.2 - 82.3 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<<Vein: 68.64 - 73.94 20% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >>									
		<<Struc: 70.23 - 70.41 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
		<<Struc: 73.15 - 73.46 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<<Struc: 73.94 - 74.37 Moderate (most crystals replaced, textural modification) Breccia>> Qtz breccia									
		<b>82.30 97.08 AND Andesite</b>									
		82.3 - 97.08: Andesite with increase in alteration near the end of the interval. Local cc veins with minor disseminated py. Locally foliated.									
		<<Min: 82.3 - 97.08 5% Pyrite>> disseminated py in local cc veins									
		<<Alt: 82.3 - 97.08 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 94.43 - 97.08 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 94.43 - 97.08 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Struc: 86.38 - 86.69 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<<Struc: 87.93 - 88.24 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
		<<Struc: 95.16 - 95.71 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<b>97.08 97.54 SLZN Summit Lake Zone</b>									
		97.08 - 97.54: Intense foliation and alteration. Appears to be porphyritic, overprinted by a later foliation. Disseminated py.									
		<<Min: 97.08 - 97.54 10% Pyrite>>									
		<<Alt: 97.08 - 97.54 Strong (complete replacement, some primary QZ and textures) Sericite>>									
		<<Alt: 97.08 - 97.54 Moderate (most crystals replaced, textural modification) Clay>>									
		<<Alt: 97.08 - 97.54 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Alt: 97.08 - 97.54 Weak (partial crystal replacement) Carbonate>>									
		<<Struc: 97.08 - 97.54 Intense (no primary minerals, textures mostly destroyed) Foliation (penetrative planar fabric)>>									
		<b>97.54 116.28 AND Andesite</b>									
		97.54 - 116.28: Alteration increases towards the end of the interval. 2% disseminated py in local cb-qtz veins.									

97.08	97.54	0.46
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## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**752**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 97.54 - 114.76 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 97.54 - 114.76 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 114.76 - 116.28 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 114.76 - 116.28 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<b>116.28 122.74 SLZN Summit Lake Zone</b>									
		116.28 - 122.74: Altered SLSZ. Appears to be sulfide rich ~30% py.									
		<<Min: 116.28 - 122.74 30% Pyrite>>									
		<<Alt: 116.28 - 122.74 Weak (partial crystal replacement) Silica>>									
		<<Alt: 116.28 - 122.74 Strong (complete replacement, some primary QZ and textures) Sericite>>									
		<<Alt: 116.28 - 122.74 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Vein: 116.28 - 122.74 60% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >>									
		<<Struc: 116.28 - 122.01 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
		<<Struc: 122.01 - 122.74 Intense (no primary minerals, textures mostly destroyed) Foliation (penetrative planar fabric)>>									
		<b>122.74 124.91 AND Andesite</b>									
		122.74 - 124.91: Silicified andesite									
		<<Alt: 122.74 - 124.91 Intense (no primary minerals, textures mostly destroyed) Silica>>									
		<b>124.91 154.56 AND Andesite</b>									
		124.91 - 154.56: Variable in alteration									
		<<Alt: 124.91 - 128.14 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 124.91 - 128.14 Weak (partial crystal replacement) Silica>>									
		<<Alt: 124.91 - 128.14 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 128.14 - 133.14 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 128.14 - 133.14 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 128.14 - 133.14 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 133.14 - 139.54 Strong (complete replacement, some primary QZ and textures) Sericite>>									
		<<Alt: 133.14 - 139.54 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 133.14 - 139.54 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 133.14 - 139.54 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Alt: 139.54 - 151.06 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 139.54 - 151.06 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 139.54 - 151.06 Weak (partial crystal replacement) Silica>>									

121.25	121.62	0.37
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## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**752**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 151.06 - 154.56 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 151.06 - 154.56 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 151.06 - 154.56 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Struc: 136.86 - 139.54 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
		<b>154.56 155.33 VEIN massive vein</b>									
		154.56 - 155.33: Large qtz-cb vein with extensional vein overprint.									
		<<Alt: 154.56 - 155.33 Intense (no primary minerals, textures mostly destroyed) Silica>>									
		<<Alt: 154.56 - 155.33 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 154.56 - 155.33 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<b>155.33 164.65 SLZN Summit Lake Zone</b>	161.36	162.49	1.13						
		155.33 - 164.65: Weak expression of SLSZ.									
		<<Min: 155.33 - 164.65 10% Pyrite>>									
		<<Min: 155.33 - 164.65 10% Pyrrhotite>>									
		<<Alt: 155.33 - 164.65 Weak (partial crystal replacement) Silica>>									
		<<Alt: 155.33 - 164.65 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 155.33 - 164.65 Weak (partial crystal replacement) K-feldspar>>									
		<<Alt: 155.33 - 164.65 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Vein: 155.33 - 164.65 60% Other veins (describe in Comments) 42 deg. >> qtz chl veins with minor carbonate is the dominate vein type.									
		<<Struc: 155.33 - 164.65 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
		<b>164.65 165.81 AND Andesite</b>									
		<<Alt: 164.65 - 165.81 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 164.65 - 165.81 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 164.65 - 165.81 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<b>End of Hole @ 165.81</b>									

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **757**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/20/2018	
UTM Easting:		Core Size:	Azimuth:	208.33	Date Logging Complete:	8/21/2018
UTM Northing:		Casing Pulled?:	Dip:	-55.95	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	202.39	Drill Rig:	
Local Easting:	7000.46	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3355.4	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3020.4			Hole Completed?:		Purpose:
Comments:				Proposed ID:		Parent Hole:

Note: the dip in the historical report indicates the dip was +, not -. Notable grade between 616.4 ft and 621.5 ft with highest Au grade @.455 and Ag .452 ~0-60m comprises of alternating andesite and lamprophyre dyke with local weak expressions of the interpreted SLSZ. This is followed by ~100 m of weak/moderate- to locally stung alteration with showings of the SLSZ. Unfortunately, there is missing core from 182.82 m - 196.75 m which is also where the highest notable grade is found. Likely not a coincident that that interval is missing....

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>13.44</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>13.44</b>	<b>13.93</b>	<b>AND</b>	<b>Andesite</b>								
<b>13.93</b>	<b>14.23</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>14.23</b>	<b>15.61</b>	<b>AND</b>	<b>Andesite</b>								
<b>15.61</b>	<b>16.52</b>	<b>LMP</b>	<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>								
<b>16.52</b>	<b>17.37</b>	<b>AND</b>	<b>Andesite</b>								
<b>17.37</b>	<b>17.62</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>17.62</b>	<b>19.48</b>	<b>AND</b>	<b>Andesite</b>								
<b>19.48</b>	<b>19.78</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>19.78</b>	<b>21.49</b>	<b>AND</b>	<b>Andesite</b>								
<b>21.49</b>	<b>22.68</b>	<b>LMP</b>	<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>								
<b>22.68</b>	<b>26.73</b>	<b>AND</b>	<b>Andesite</b>								

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

757

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
26.73	28.47	LMP Lamprophyre (dark grey-brown to black mafic dykes)									
28.47	29.69	AND Andesite									
29.69	30.42	LMP Lamprophyre (dark grey-brown to black mafic dykes)									
30.42	31.61	AND Andesite									
31.61	32.34	LMP Lamprophyre (dark grey-brown to black mafic dykes)									
32.34	32.92	AND Andesite									
32.92	34.35	LMP Lamprophyre (dark grey-brown to black mafic dykes)									
34.35	38.40	AND Andesite									
<<Struc: 37.92 - 38.25 Weak (partial crystal replacement) Brittle fault gouge>>											
38.40	39.99	LMP Lamprophyre (dark grey-brown to black mafic dykes)									
39.99	41.88	AND Andesite									
39.99 - 41.88: Local brittle fracture sets within the interval.											
41.88	43.53	LMP Lamprophyre (dark grey-brown to black mafic dykes)									
43.53	44.65	AND Andesite									
44.65	45.75	SLZN Summit Lake Zone									
44.65 - 45.75: Weak expression of the SLSZ. Weakly altered. 2%py.											
<<Min: 44.65 - 45.75 2% Pyrite>>											
<<Alt: 44.65 - 45.75 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 44.65 - 45.75 Weak (partial crystal replacement) Sericite>>											
<<Alt: 44.65 - 45.75 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 44.65 - 45.75 40% Calcite-dominant (CAL > PY + PO + CHL + SER) 35 deg. >>											
45.75	51.85	AND Andesite									
<<Alt: 45.75 - 51.85 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 45.75 - 51.85 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 45.75 - 51.85 Subtle (restricted to crystal margins, fractures) Chlorite>>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **757**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>51.85</b>	<b>52.15</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 51.85 - 52.15 2% Pyrite>> <<Alt: 51.85 - 52.15 Weak (partial crystal replacement) Sericite>> <<Alt: 51.85 - 52.15 Moderate (most crystals replaced, textural modification) Chlorite>> <<Vein: 51.85 - 52.15 60% Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >>											
<b>52.15</b>	<b>54.80</b>	<b>AND Andesite</b>									
<b>54.80</b>	<b>55.23</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 54.8 - 55.23 2% Pyrite>> <<Alt: 54.8 - 55.23 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 54.8 - 55.23 Weak (partial crystal replacement) Sericite>> <<Alt: 54.8 - 55.23 Weak (partial crystal replacement) Chlorite>> <<Vein: 54.8 - 55.23 50% Calcite-dominant (CAL > PY + PO + CHL + SER) 40 deg. >> <<Struc: 54.8 - 55.23 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>55.23</b>	<b>57.27</b>	<b>AND Andesite</b>									
<b>57.27</b>	<b>60.05</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>60.05</b>	<b>71.63</b>	<b>AND Andesite</b>									
60.05 - 71.63: Intensity in alteration increases near the end of the interval. Locally large qtz-extensional veins present. <<Alt: 60.05 - 71.63 Weak (partial crystal replacement) Silica>> <<Alt: 60.05 - 71.63 Weak (partial crystal replacement) Chlorite>>											
<b>71.63</b>	<b>72.21</b>	<b>SLZN Summit Lake Zone</b>									
71.63 - 72.21: Moderately foliated and moderate- to strongly altered interval. <<Min: 71.63 - 72.21 60% Pyrite>> <<Min: 71.63 - 72.21 10% Pyrrhotite>> <<Alt: 71.63 - 72.21 Weak (partial crystal replacement) Silica>> <<Alt: 71.63 - 72.21 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 71.63 - 72.21 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Vein: 71.63 - 72.21 80% Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >> <<Struc: 71.63 - 72.21 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>72.21</b>	<b>73.94</b>	<b>AND Andesite</b>									
72.21 - 73.94: Local qtz and cb veins present. Weakly altered andesite											



## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **757**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 72.21 - 73.94 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 72.21 - 73.94 Weak (partial crystal replacement) Chlorite>>									
<b>73.94</b>	<b>74.80</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>74.80</b>	<b>77.39</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
		74.8 - 77.39: Disseminated -to semi-massive mineralization. Moderate to strong foliation with low angle veins associated with foliation.									
		<<Min: 74.8 - 77.39 70% Pyrite>>									
		<<Min: 74.8 - 77.39 20% Pyrrhotite>>									
		<<Alt: 74.8 - 77.39 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 74.8 - 77.39 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 74.8 - 77.39 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Alt: 74.8 - 77.39 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 74.8 - 77.39 80% Composite sulphide + calcite (banded SX- and CC-dominant) 5 deg. >>									
		<<Struc: 74.8 - 77.39 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>									
		<b>77.39</b>	<b>79.64</b>	<b>AND</b>	<b>Andesite</b>						
		77.39 - 79.64: Weak to moderately altered andesite with locally brittle cb veins.									
		<<Alt: 77.39 - 79.64 Weak (partial crystal replacement) Silica>>									
		<<Alt: 77.39 - 79.64 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 77.39 - 79.64 Weak (partial crystal replacement) Chlorite>>									
		<b>79.64</b>	<b>80.22</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>						
		79.64 - 80.22: Moderate expression of the SLSZ									
		<<Min: 79.64 - 80.22 5% Pyrite>>									
		<<Min: 79.64 - 80.22 5% Pyrrhotite>>									
		<<Alt: 79.64 - 80.22 Weak (partial crystal replacement) Silica>>									
		<<Alt: 79.64 - 80.22 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 79.64 - 80.22 Subtle (restricted to crystal margins, fractures) K-feldspar>>									
		<<Alt: 79.64 - 80.22 Moderate (most crystals replaced, textural modification) Chlorite>>									
		<<Alt: 79.92 - 82.33 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 79.92 - 82.33 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 79.92 - 82.33 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<<Vein: 79.64 - 80.22 70% Calcite-dominant (CAL > PY + PO + CHL + SER) 7 deg. >>									

75.99	76.99	1.00
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## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

757

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Struc: 79.64 - 80.22 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>80.22</b>	<b>85.22</b>	<b>AND Andesite</b>									
80.22 - 85.22: Andesite with locally moderate alteration +sulfide stringers.											
		<<Min: 82.33 - 82.88 2% Pyrite>>									
		<<Alt: 82.33 - 82.88 Weak (partial crystal replacement) Silica>>									
		<<Alt: 82.33 - 82.88 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 82.33 - 82.88 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 82.88 - 85.22 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 82.88 - 85.22 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 82.88 - 85.22 Subtle (restricted to crystal margins, fractures) Chlorite>>									
		<<Struc: 84.09 - 84.58 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>85.22</b>	<b>86.78</b>	<b>SLZN Summit Lake Zone</b>									
85.22 - 86.78: Low angle shear zone, hosting a carbonate dominated vein.											
		<<Min: 85.22 - 86.78 15% Pyrite>>									
		<<Min: 85.22 - 86.78 5% Pyrrhotite>>									
		<<Alt: 85.22 - 86.78 Weak (partial crystal replacement) Silica>>									
		<<Alt: 85.22 - 86.78 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 85.22 - 86.78 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Vein: 85.22 - 86.78 80% Calcite-dominant (CAL > PY + PO + CHL + SER) 5 deg. >>									
		<<Struc: 85.22 - 86.78 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>86.78</b>	<b>97.63</b>	<b>AND Andesite</b>									
86.78 - 97.63: Weakly altered andesite											
		<<Alt: 86.78 - 97.63 Moderate (most crystals replaced, textural modification) Silica>>									
		<<Alt: 86.78 - 97.63 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 86.78 - 97.63 Subtle (restricted to crystal margins, fractures) Chlorite>>									
<b>97.63</b>	<b>100.28</b>	<b>AND Andesite</b>									
<b>100.28</b>	<b>101.86</b>	<b>SLZN Summit Lake Zone</b>									
100.28 - 101.86: Weak expression of the SLSZ.											
		<<Min: 100.28 - 101.86 5% Pyrite>>									
		<<Alt: 100.28 - 101.86 Weak (partial crystal replacement) Sericite>>									
		<<Alt: 100.28 - 101.86 Moderate (most crystals replaced, textural modification) Chlorite>>									

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

757

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<p>&lt;&lt;Vein: 100.28 - 101.86 40% Calcite-dominant (CAL &gt; PY + PO + CHL + SER) 35 deg. &gt;&gt; cc veins wqith py&gt;po and local qtz-extensional veins overprinting.</p> <p>&lt;&lt;Struc: 100.28 - 101.86 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p> <p><b>101.86 116.16 AND Andesite</b></p> <p>101.86 - 116.16: Andesite with a small localized foliation within the interval.</p> <p>&lt;&lt;Alt: 105.4 - 105.89 Weak (partial crystal replacement) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 105.4 - 105.89 Weak (partial crystal replacement) Chlorite&gt;&gt;</p> <p>&lt;&lt;Struc: 105.4 - 105.89 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)&gt;&gt;</p> <p><b>116.16 117.62 LMP Lamprophyre (dark grey-brown to black mafic dykes)</b></p> <p><b>117.62 129.54 AND Andesite</b></p> <p>117.62 - 129.54: Realitiely unaltered andesite.</p> <p><b>129.54 129.94 SLZN Summit Lake Zone</b></p> <p>&lt;&lt;Min: 129.54 - 129.94 2% Pyrite&gt;&gt;</p> <p>&lt;&lt;Alt: 129.54 - 129.94 Weak (partial crystal replacement) Sericite&gt;&gt;</p> <p>&lt;&lt;Alt: 129.54 - 129.94 Weak (partial crystal replacement) Chlorite&gt;&gt;</p> <p>&lt;&lt;Vein: 129.54 - 129.94 50% Calcite-dominant (CAL &gt; PY + PO + CHL + SER) 48 deg. &gt;&gt;</p> <p>&lt;&lt;Struc: 129.54 - 129.94 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p> <p><b>129.94 141.37 AND Andesite</b></p> <p>129.94 - 141.37: Locally foliated and a small fault gouge found as well.</p> <p>&lt;&lt;Struc: 130.91 - 131.16 Moderate (most crystals replaced, textural modification) Brittle fault gouge&gt;&gt;</p> <p>&lt;&lt;Struc: 135.45 - 135.85 Weak (partial crystal replacement) Foliation (penetrative planar fabric)&gt;&gt;</p> <p><b>141.37 142.55 LMP Lamprophyre (dark grey-brown to black mafic dykes)</b></p> <p><b>142.55 145.36 DIO Diorite (FSP-phyric to porphyritic)</b></p> <p>142.55 - 145.36: Unsure what this unit could be. Seems to have a somewhat porphyritic texture, however it also has spherulites in the interval as well. Possibly a diorite ?</p> <p><b>145.36 152.61 LMP Lamprophyre (dark grey-brown to black mafic dykes)</b></p> <p><b>152.61 153.80 AND Andesite</b></p>											

### GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **757**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>153.80</b>	<b>155.08</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>155.08</b>	<b>163.16</b>	<b>AND Andesite</b>									
<b>163.16</b>	<b>163.56</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 163.16 - 163.56 5% Pyrite>>											
<<Alt: 163.16 - 163.56 Weak (partial crystal replacement) Sericite>>											
<<Alt: 163.16 - 163.56 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 163.37 - 168.83 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 163.37 - 168.83 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 163.37 - 168.83 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Vein: 163.16 - 163.56 60% Calcite-dominant (CAL > PY + PO + CHL + SER) 25 deg. >>											
<<Struc: 163.16 - 163.56 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>163.56</b>	<b>168.83</b>	<b>AND Andesite</b>									
<b>168.83</b>	<b>171.02</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>171.02</b>	<b>177.88</b>	<b>AND Andesite</b>									
<<Alt: 171.02 - 177.88 Weak (partial crystal replacement) Silica>>											
<<Alt: 171.02 - 178.49 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Struc: 172.36 - 172.85 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>177.88</b>	<b>178.49</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<<Alt: 177.88 - 178.49 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 177.88 - 178.49 Weak (partial crystal replacement) Chlorite>>											
<b>178.49</b>	<b>181.69</b>	<b>AND Andesite</b>									
<<Min: 178.49 - 181.69 2% Pyrite>> disseminated throughout interval											
<<Alt: 178.49 - 181.69 Weak (partial crystal replacement) Silica>>											
<<Alt: 178.49 - 181.69 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 178.49 - 181.69 Subtle (restricted to crystal margins, fractures) K-feldspar>>											
<<Alt: 178.49 - 181.69 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>181.69</b>	<b>182.45</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
<b>182.45</b>	<b>182.82</b>	<b>AND Andesite</b>									

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**757**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>182.82</b>	<b>196.75</b>	<b>MISS</b>									
		<b>Missing Core</b>									
		<<Alt: 196.75 - 197.85 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 196.75 - 197.85 Weak (partial crystal replacement) Chlorite>>									
<b>196.75</b>	<b>197.85</b>	<b>AND</b>									
		<b>Andesite</b>									
		<<Min: 197.85 - 198.15 20% Pyrite>>									
		<<Min: 197.85 - 198.15 1% Pyrrhotite>>									
		<<Alt: 197.85 - 198.15 Subtle (restricted to crystal margins, fractures) Silica>>									
		<<Alt: 197.85 - 198.15 Moderate (most crystals replaced, textural modification) Sericite>>									
		<<Alt: 197.85 - 198.15 Strong (complete replacement, some primary QZ and textures) Chlorite>>									
		<<Vein: 197.85 - 198.15 50% Calcite-dominant (CAL > PY + PO + CHL + SER) 43 deg. >>									
		<<Struc: 197.85 - 198.15 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>197.85</b>	<b>198.15</b>	<b>SLZN</b>	197.85	198.15	0.30						
		<b>Summit Lake Zone</b>									
<b>198.15</b>	<b>202.39</b>	<b>AND</b>									
		<b>Andesite</b>									
<b>End of Hole @ 202.39</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **758**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Thomas Mumford	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/20/2018	
UTM Easting:		Core Size:	Azimuth:	223.78	Date Logging Complete:	8/21/2018
UTM Northing:		Casing Pulled?:	Dip:	-55.4	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	123.14	Drill Rig:	
Local Easting:	7001.67	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3189.4	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3016.3			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Relogging of 758 - Hole contains two short (<4 m wide), weak to moderate intervals of interpreted SLZN. Numerous lamprophyre dykes cross-cut the host andesite. Missing original boxes 12 and 13.

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>58.70</b>	<b>AND Andesite</b>	18.62	18.99	0.37						
0 - 58.7: grey green, fine-grained, massive to lapilli rich andesite, abundant extensional calcite veinlets, unfoliated  <<Min: 11.7 - 11.89 2% Pyrite>> fine-grained pyrite occurring as bands along margin of calcite vein <<Min: 17.53 - 17.68 2% Pyrite>> thin stringers of py and disseminations associated with sheared calcite veinlet <<Min: 18.84 - 18.93 5% Pyrite>> part of banded sulphide vein (py>po + cal) <<Min: 18.84 - 18.93 2% Pyrrhotite>> part of banded sulphide vein (py>po + cal) <<Min: 36.27 - 37 2% Pyrite>> medium grained disseminations <<Min: 42.4 - 42.61 2% Pyrite>> fine-grained py forming a 1 cm wide bleb along calcite vein <<Vein: 0 - 58.7 3% Other veins (describe in Comments) 45 deg. >> calcite extensional veinlets, unmineralized <<Vein: 11.7 - 11.89 35% Other veins (describe in Comments) 20 deg. >> larger slightly banded calcite vein with 2% associated py <<Vein: 18.84 - 18.93 80% Composite sulphide + calcite (banded SX- and CC-dominant) 52 deg. >> banded py+po+cal vein, hosted in unfoliated andesite - possible relation to SLZN??											
<b>58.70</b>	<b>59.38</b>	<b>LMP Lamprophyre (dark grey-brown to black mafic dykes)</b>									
58.7 - 59.38: small dark grey, fine-grained lamprophyre											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>59.38</b>	<b>63.58</b>	<b>AND Andesite</b>									
59.38 - 63.58: grey green, lapilli andesite, fine-grained											
<<Min: 59.38 - 60.23 2% Pyrite>> occurs as disseminations and as stringers of fine-grained py											
<<Min: 62.18 - 62.73 2% Pyrite>> occurs as coarse-grained disseminations and as fine-grained stringers											
<b>63.58</b>	<b>65.23</b>	<b>SLZN Summit Lake Zone</b>									
63.58 - 65.23: small weakly developed interval of SLZN?, contains two noable 10+ cm wide banded/sheared veins with >10% py + cal											
<<Min: 63.58 - 65.23 3% Pyrite>> fine-grained pyrite as bands in calcite rich veins, as well as disseminations											
<<Alt: 63.58 - 65.23 Weak (partial crystal replacement) Sericite>> weak sericite alteration along margins of cal + sulphide veins											
<<Alt: 63.58 - 65.23 Subtle (restricted to crystal margins, fractures) Calcite>> weak pervasive calcite alteration											
<<Vein: 63.58 - 65.23 12% Calcite-dominant (CAL > PY + PO + CHL + SER) 33 deg. >> a few small banded calcite + sulphide veins											
<<Struc: 63.58 - 65.23 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>> localized shear bands, calcite rich veins											
<b>65.23</b>	<b>69.89</b>	<b>AND Andesite</b>									
65.23 - 69.89: grey green lapilli andesite, fg matrix, heterogenous, localized alteration/bleaching?											
<<Min: 67.44 - 67.67 3% Pyrite>> coarse-grained disseminations and fine-grained stringers											
<b>69.89</b>	<b>73.67</b>	<b>SLZN Summit Lake Zone</b>	72.09	72.60	0.51						
69.89 - 73.67: weakly to moderately developed SLZN, pervasive calcite, sericite, silica alteration, localized chlorite +/- py and po - missing some core between 231.6 - 236.5 (30%?)											
<<Min: 69.89 - 73.67 3% Pyrite>> heterogenous distribution of py: coarse-grained pyrite disseminations, banded fine-grained pyrite associated with calcite veins											
<<Alt: 69.89 - 73.67 Weak (partial crystal replacement) Chlorite>> thin zones of chlorite alteration along sheared veins											
<<Alt: 69.89 - 73.67 Weak (partial crystal replacement) Calcite>> weak to moderate pervasive calcite alteration											
<<Alt: 70.07 - 73.67 Weak (partial crystal replacement) Silica>> moderate pervasive silification											
<<Vein: 69.89 - 73.67 10% Calcite-dominant (CAL > PY + PO + CHL + SER) 34 deg. >> missing some of core from this interval, consists of well mineralized, banded calcite+py veins											
<<Struc: 71.78 - 72.09 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>> moderately developed shear banding in SLZN											
<b>73.67</b>	<b>79.25</b>	<b>AND Andesite</b>									
73.67 - 79.25: grey green, fine-grained lapilli andesite, heterogenous, contains thin extensional calcite veinlets											
<<Min: 73.67 - 79.25 4% Pyrite>> stringers of py and fine-medium grained disseminations											



## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**758**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>79.25</b>	<b>92.35</b>	<b>MISS</b>	<b>Missing Core</b>								
79.25 - 92.35: missing original boxes 13 and 14											
<b>92.35</b>	<b>104.49</b>	<b>AND</b>	<b>Andesite</b>								
92.35 - 104.49: grey green altered heterogenous, massive to lapilli andesite - sericite and silica alteration											
<<Min: 92.35 - 93.6 5% Pyrite>> blebs and agglomerates of fine-medium grained pyrite - interstitial to altered lapilli fragments?											
<<Min: 93.6 - 101.71 3% Pyrite>> disseminated and blebby fine-grained pyrite											
<<Min: 101.71 - 104.49 1% Pyrite>> disseminated py											
<<Alt: 92.35 - 93.6 Weak (partial crystal replacement) Silica>> weak pervasive silica alteration											
<<Alt: 92.35 - 93.6 Moderate (most crystals replaced, textural modification) Sericite>> moderate pervasive sericite alt											
<b>104.49</b>	<b>109.03</b>	<b>LMP</b>	<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>								
104.49 - 109.03: fine-medium dark grey lamprophyre with abundant mafic phenos and quenched margins											
<b>109.03</b>	<b>114.42</b>	<b>AND</b>	<b>Andesite</b>								
109.03 - 114.42: fine-grained heterogenous, locally altered andesite. Short interval after upper lamprophyre contact is strongly chlorite altered											
<<Min: 109.03 - 109.67 2% Pyrite>> coarse-grained py in calcite chl breccia zone											
<<Min: 109.67 - 114.42 1% Pyrite>> disseminated pyrite											
<<Alt: 109.03 - 109.67 Strong (complete replacement, some primary QZ and textures) Chlorite>> strong pervasive chl alteration along lower margin of lamprophyre hosted in andesite											
<<Vein: 109.03 - 109.67 15% Other veins (describe in Comments)>> calcite breccia zone just beneath lower lamprophyre contact											
<b>114.42</b>	<b>118.08</b>	<b>LMP</b>	<b>Lamprophyre (dark grey-brown to black mafic dykes)</b>								
114.42 - 118.08: fine to medium-grained lamprophyre, medium grey brown colour, abundant mafic phenos											
<b>118.08</b>	<b>119.88</b>	<b>DIA</b>	<b>Diabase (fine-grained pale green "microdiorite" dikes)</b>								
118.08 - 119.88: unknown dyke type, fine-grained, light grey, <5% mafic phenos (1-2mm) - late phase											
<b>119.88</b>	<b>123.14</b>	<b>AND</b>	<b>Andesite</b>								
119.88 - 123.14: grey green fine-grained andesite, massive											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**758**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 119.88 - 123.14		3% Pyrite>> medium-grained disseminated py									
<<Alt: 119.88 - 123.14		Weak (partial crystal replacement) Silica>> pervasive silica alteration									
<b>End of Hole @ 123.14</b>											

## GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **762**

Prospect:	M Zone	Hole Type:	Survey Type:	Logged By:	Ty Magee	
Grid:	Mine	Hole Diameter:	Survey By:	Date Logging Start:	8/26/2018	
UTM Easting:		Core Size:	Azimuth:	146.03	Date Logging Complete:	8/27/2018
UTM Northing:		Casing Pulled?:	Dip:	-5.13	Drill Company:	
UTM Elev. (m):		Casing Depth (m):	Length (m):	238.66	Drill Rig:	
Local Easting:	7281.29	Stored?:	Yes	Claims Title:	Drill Started:	
Local Northing:	3063.4	Cemented?:		Core Storage Loc.:	Scottie Gold Camp	Drill Completed:
Local Elev. (m):	3010.4			Hole Completed?:		Purpose:
Comments:			Proposed ID:		Parent Hole:	

Re-logged hole 762. (Note: dip has been noted as +ve, not -ve). Hole was drilled away from the typical ore zones. Hole 762 shows weak to moderate expressions of the SLZN, even at >600ft. Most of the SLZN intervals were sampled.

### Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>7.07</b>	<b>MISS</b>	<b>Missing Core</b>								
<b>7.07</b>	<b>15.73</b>	<b>AND</b>	<b>Andesite</b>								
<<Alt: 7.07 - 15.73 Subtle (restricted to crystal margins, fractures) Chlorite>>			10.03	10.33	0.30						
<<Min: 15.73 - 16.03 3% Pyrite>>			11.89	12.65	0.76						
<b>15.73</b>	<b>16.03</b>	<b>SLZN</b>	<b>Summit Lake Zone</b>								
<<Alt: 15.73 - 16.03 Weak (partial crystal replacement) Sericite>>											
<<Alt: 15.73 - 16.03 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 15.73 - 16.03 Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 15 deg. >>											
<<Struc: 15.73 - 16.03 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>16.03</b>	<b>32.52</b>	<b>AND</b>	<b>Andesite</b>								
16.03 - 32.52: Andesite with local veining and silica alteration.											
<<Min: 25.54 - 25.79 3% Pyrite>>											
<<Alt: 16.03 - 32.52 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 16.03 - 32.52 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 25.54 - 25.79 Strong (complete replacement, some primary QZ and textures) Silica>>											
<<Vein: 25.54 - 25.79 Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 30 deg. >>											

## GeoSpark Logger ~ Drill Log

**Project:**
**Scottie Gold**
**Hole Number:**
**762**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>32.52</b>	<b>32.83</b>	<b>MISS Missing Core</b>									
<b>32.83</b>	<b>36.82</b>	<b>AND Andesite</b>									
<b>36.82</b>	<b>37.09</b>	<b>MISS Missing Core</b>									
<b>37.09</b>	<b>41.18</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 37.09 - 41.18 5% Pyrite>>											
<<Alt: 37.09 - 41.18 Strong (complete replacement, some primary QZ and textures) Sericite>>											
<<Alt: 37.09 - 41.18 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Vein: 37.09 - 41.18 50% Quartz extension vein (QTZ +/- EPI +/- CHL +/- CAL) 35 deg. >>											
<<Struc: 37.09 - 41.18 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>41.18</b>	<b>54.19</b>	<b>AND Andesite</b>									
<<Alt: 41.18 - 51.39 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 41.18 - 51.39 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 41.18 - 51.39 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 51.39 - 54.19 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 51.39 - 54.19 Moderate (most crystals replaced, textural modification) Sericite>>											
<<Alt: 51.39 - 54.19 Weak (partial crystal replacement) Chlorite>>											
<<Struc: 51.39 - 54.19 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>											
<b>54.19</b>	<b>57.61</b>	<b>SLZN Summit Lake Zone</b>	54.19	55.17	0.98						
<<Min: 54.19 - 57.61 1% Sphalerite>>											
<<Min: 54.19 - 57.61 15% Pyrite>>											
<<Min: 54.19 - 57.61 2% Pyrrhotite>>											
<<Alt: 54.19 - 57.61 Weak (partial crystal replacement) Silica>>											
<<Alt: 54.19 - 57.61 Strong (complete replacement, some primary QZ and textures) Sericite>>											
<<Alt: 54.19 - 57.61 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Vein: 54.19 - 57.61 Composite sulphide + calcite (banded SX- and CC-dominant) 30 deg. >>											
<<Struc: 54.19 - 57.61 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>57.61</b>	<b>66.90</b>	<b>AND Andesite</b>	66.75	67.67	0.92						
<<Alt: 57.61 - 66.9 Weak (partial crystal replacement) Sericite>>											
<<Alt: 57.61 - 66.9 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 57.61 - 66.9 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>66.90</b>	<b>73.15</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 66.9 - 73.15 20% Pyrite>> hosted in veins and diseminated throughout the host rock											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **762**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 66.9 - 73.15		3% Pyrrhotite>>									
<<Alt: 66.9 - 73.15		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 66.9 - 73.15		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 66.9 - 73.15		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 66.9 - 73.15		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Vein: 66.9 - 73.15		Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >>									
<<Struc: 66.9 - 73.15		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>73.15</b>	<b>84.73</b>	<b>AND Andesite</b>									
<<Alt: 73.15 - 84.73		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 73.15 - 84.73		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 73.15 - 84.73		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<b>84.73</b>	<b>91.96</b>	<b>MISS Missing Core</b>									
<b>91.96</b>	<b>93.15</b>	<b>AND Andesite</b>									
<<Alt: 91.96 - 93.15		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 91.96 - 93.15		Weak (partial crystal replacement) Chlorite>>									
<<Alt: 91.96 - 93.15		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<b>93.15</b>	<b>99.03</b>	<b>SLZN Summit Lake Zone</b>	96.16	96.77	0.61						
<<Min: 93.15 - 99.03		40% Pyrite>> hosted in veins and disseminated throughout interval									
<<Min: 93.15 - 99.03		5% Pyrrhotite>>									
<<Alt: 93.15 - 99.03		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 93.15 - 99.03		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 93.15 - 99.03		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Vein: 93.15 - 99.03		Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >>									
<<Struc: 93.15 - 99.03		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>99.03</b>	<b>106.22</b>	<b>MISS Missing Core</b>									
<b>106.22</b>	<b>107.47</b>	<b>AND Andesite</b>									
<b>107.47</b>	<b>108.66</b>	<b>SLZN Summit Lake Zone</b>	107.47	108.66	1.19						
<<Alt: 107.47 - 108.66		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 107.47 - 108.66		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 107.47 - 108.66		Weak (partial crystal replacement) Chlorite>>									
<<Vein: 107.47 - 108.66		Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 35 deg. >>									
<b>108.66</b>	<b>127.83</b>	<b>AND Andesite</b>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 108.66 - 115.7		3% Pyrite>> disseminated throughout the interval									
<<Min: 108.66 - 127.83		60% Pyrite>> Hosted in both veins and disseminated throughout the interval									
<<Min: 108.66 - 127.83		5% Pyrrhotite>>									
<<Alt: 108.66 - 115.7		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 108.66 - 115.7		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 108.66 - 115.7		Weak (partial crystal replacement) Chlorite>>									
<<Alt: 115.7 - 127.71		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 115.7 - 127.71		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 115.7 - 127.71		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<<Struc: 108.66 - 127.83		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>127.83</b>	<b>133.69</b>	<b>AND Andesite</b>									
<<Alt: 127.83 - 133.69		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 127.83 - 133.69		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 127.83 - 133.69		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<b>133.69</b>	<b>136.98</b>	<b>SLZN Summit Lake Zone</b>									
<<Min: 133.69 - 136.98		25% Pyrite>> Hosted in veins as well as disseminated throughout the interval.									
<<Min: 133.69 - 136.98		5% Pyrrhotite>>									
<<Alt: 133.69 - 136.98		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 133.69 - 136.98		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 133.69 - 136.98		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 133.69 - 136.98		Subtle (restricted to crystal margins, fractures) Carbonate>>									
<<Vein: 133.69 - 136.98		Calcite-dominant (CAL > PY + PO + CHL + SER) 47 deg. >>									
<<Struc: 133.69 - 136.98		Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>									
<b>136.98</b>	<b>150.66</b>	<b>AND Andesite</b>									
136.98 - 150.66: Andesite with variable alteration											
<<Min: 136.98 - 150.66		1% Pyrite>> disseminated throughout the interval									
<<Alt: 136.98 - 140.21		Moderate (most crystals replaced, textural modification) Silica>>									
<<Alt: 136.98 - 140.21		Strong (complete replacement, some primary QZ and textures) Sericite>>									
<<Alt: 136.98 - 140.21		Weak (partial crystal replacement) Chlorite>>									
<<Alt: 140.21 - 148.32		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 140.21 - 148.32		Moderate (most crystals replaced, textural modification) Sericite>>									
<<Alt: 140.21 - 148.32		Moderate (most crystals replaced, textural modification) Chlorite>> patchy alteration									
<b>150.66</b>	<b>155.11</b>	<b>SLZN Summit Lake Zone</b>									

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **762**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 150.66 - 155.11 25% Pyrite>> <<Min: 150.66 - 155.11 5% Pyrrhotite>> <<Alt: 150.66 - 155.11 Moderate (most crystals replaced, textural modification) Silica>> <<Alt: 150.66 - 155.11 Intense (no primary minerals, textures mostly destroyed) Sericite>> <<Alt: 150.66 - 155.11 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Alt: 150.66 - 155.11 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 150.66 - 155.11 Composite sulphide + calcite (banded SX- and CC-dominant) 35 deg. >> <<Struc: 150.66 - 155.11 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>155.11</b>	<b>169.83</b>	<b>AND Andesite</b>	155.11 - 169.83: Locally foliated and veined but not enough to be deemed as a SLZN.								
<<Min: 155.11 - 169.83 2% Pyrite>> <<Alt: 155.11 - 169.83 Weak (partial crystal replacement) Silica>> <<Alt: 155.11 - 169.83 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 155.11 - 169.83 Weak (partial crystal replacement) Chlorite>> <<Alt: 155.11 - 169.83 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 163.22 - 163.49 Sulphide +/- quartz vein (PO > PY +/- QZ +/- CHL) 35 deg. >> <<Struc: 163.22 - 163.49 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>169.83</b>	<b>187.15</b>	<b>AND Andesite</b>	169.83 - 187.15: Altered andesite with local qtz-cb veins.								
<<Min: 169.83 - 187.15 2% Pyrite>> Disseminated throughout the interval <<Alt: 169.83 - 187.15 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 169.83 - 187.15 Weak (partial crystal replacement) Sericite>> <<Alt: 169.83 - 187.15 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 169.83 - 187.15 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<b>187.15</b>	<b>195.44</b>	<b>SLZN Summit Lake Zone</b>	189.59	190.96	1.37						
187.15 - 195.44: Moderately- to strong alteration and foliated interval with semi-massive py+po. Historical assays shows a notable grade in this interval.											
<<Min: 187.15 - 195.44 40% Pyrite>> <<Min: 187.15 - 195.44 10% Pyrrhotite>> <<Alt: 187.15 - 195.44 Weak (partial crystal replacement) Silica>> <<Alt: 187.15 - 195.44 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 187.15 - 195.44 Strong (complete replacement, some primary QZ and textures) Chlorite>>											



## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**762**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 187.15 - 195.44 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 187.15 - 195.44 Composite sulphide + calcite (banded SX- and CC-dominant) 42 deg. >> <<Struc: 187.15 - 195.44 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>195.44</b>	<b>211.74</b>	<b>AND Andesite</b>									
195.44 - 211.74: Locally foliated with disseminated py.											
<<Min: 195.59 - 211.53 2% Pyrite>> Disseminated throughout the interval <<Alt: 195.59 - 202.6 Weak (partial crystal replacement) Silica>> <<Alt: 195.59 - 202.6 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 195.59 - 202.6 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 195.59 - 202.6 Weak (partial crystal replacement) Carbonate>> <<Alt: 202.6 - 211.74 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 202.6 - 211.74 Weak (partial crystal replacement) Sericite>> <<Alt: 202.6 - 211.74 Weak (partial crystal replacement) Chlorite>> <<Struc: 201.32 - 202.45 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>211.74</b>	<b>221.28</b>	<b>AND Andesite</b>									
211.74 - 221.28: Local qtz extensional veins present.											
<<Alt: 211.74 - 221.28 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 211.74 - 221.28 Weak (partial crystal replacement) Chlorite>>											
<b>221.28</b>	<b>224.18</b>	<b>FLT Fault</b>									
221.28 - 224.18: Appears to be a brittle faulted area. Rock chips follow similar traits to the andesite.											
<b>224.18</b>	<b>226.65</b>	<b>AND Andesite</b>	226.59	227.26	0.67						
<<Alt: 224.18 - 226.65 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 224.18 - 226.65 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 224.18 - 226.65 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<b>226.65</b>	<b>227.08</b>	<b>SLZN Summit Lake Zone</b>									
226.65 - 227.08: Historical grade (0.022 oz/ton). Typical alteration and foliation as the previous SLZN recorded in this hole.											
<<Min: 226.65 - 227.08 45% Pyrite>> <<Min: 226.65 - 227.08 15% Pyrrhotite>> <<Alt: 226.65 - 227.08 Moderate (most crystals replaced, textural modification) Sericite>> <<Alt: 226.65 - 227.08 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 226.65 - 227.08 Weak (partial crystal replacement) Carbonate>>											

## GeoSpark Logger ~ Drill Log

Project:

Scottie Gold

Hole Number:

762

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Vein: 226.65 - 227.08 Composite sulphide + calcite (banded SX- and CC-dominant) 40 deg. >>											
<<Struc: 226.65 - 227.08 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>227.08</b>	<b>236.46</b>	<b>AND Andesite</b>	234.85	235.61	0.76						
<<Alt: 227.08 - 236.46 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 227.08 - 236.46 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<b>236.46</b>	<b>237.65</b>	<b>SLZN Summit Lake Zone</b>									
236.46 - 237.65: Weak expression of the SLZN.											
<<Min: 236.46 - 237.65 15% Pyrite>>											
<<Alt: 236.46 - 237.65 Weak (partial crystal replacement) Sericite>>											
<<Alt: 236.46 - 237.65 Weak (partial crystal replacement) Chlorite>>											
<<Vein: 236.46 - 237.65 Calcite-dominant (CAL > PY + PO + CHL + SER) 38 deg. >>											
<<Struc: 236.46 - 237.65 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											
<b>237.65</b>	<b>238.66</b>	<b>AND Andesite</b>									
<<Min: 237.65 - 238.66 1% Pyrrhotite>>											
<<Alt: 237.65 - 238.66 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 237.65 - 238.66 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<b>End of Hole @ 238.66</b>											

# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **SG-16-15**

Prospect:	Hole Type:	Survey Type:	Logged By:	Ty Magee
Grid:	Hole Diameter:	Survey By:	Date Logging Start:	9/4/2018
UTM Easting:	Core Size:	Azimuth:	Date Logging Complete:	9/4/2018
UTM Northing:	Casing Pulled?:	Dip:	Drill Company:	
UTM Elev. (m):	Casing Depth (m):	Length (m):	Drill Rig:	
Local Easting: 433099	Stored?: Yes	Claims Title:	Drill Started:	
Local Northing: 6232219	Cemented?:	Core Storage Loc.: Scottie Gold Camp	Drill Completed:	
Local Elev. (m):		Hole Completed?:	Purpose:	
Comments:		Proposed ID:	Parent Hole:	

Re-logging hole 15 in Stewart, B.C.

**Downhole Surveys:**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>0.00</b>	<b>4.72</b>	<b>AND Andesite</b>	3.66	4.57	0.91						
0 - 4.72: Strongly weathered with a slight gossanous look. Rusty on fractures with some Chl +Ksp alteration. Quite broken up. <<Min: 0 - 4.72 3% Pyrite>> Disseminated throughout the interval. <<Alt: 0 - 4.72 Subtle (restricted to crystal margins, fractures) K-feldspar>> <<Alt: 0 - 4.72 Moderate (most crystals replaced, textural modification) Chlorite>>											
<b>4.72</b>	<b>8.47</b>	<b>SLZN Summit Lake Zone</b>	4.72	5.33	0.61						
4.72 - 8.47: Semi-massive to massive sulfides including pyrrhotite. Unsure if this is a sxxc shear vein as no carbonate is aprent when acid is applied. Mineralization is low angle, along with a weak foliation. This has not been sampled yet. <<Min: 4.72 - 8.47 20% Pyrite>> <<Min: 4.72 - 8.47 40% Pyrrhotite>> <<Alt: 4.72 - 8.47 Subtle (restricted to crystal margins, fractures) Silica>> <<Alt: 4.72 - 8.47 Subtle (restricted to crystal margins, fractures) K-feldspar>> <<Alt: 4.72 - 8.47 Strong (complete replacement, some primary QZ and textures) Chlorite>> <<Vein: 4.72 - 8.47 80% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 7 deg. >> <<Struc: 4.72 - 8.47 Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>											

# GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**SG-16-15**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>8.47</b>	<b>10.55</b>	<b>FLT Fault</b>									
8.47 - 10.55: Brittle fault with rusty, weathered fractured surfaces, if any.											
<b>10.55</b>	<b>15.85</b>	<b>AND Andesite</b>									
10.55 - 15.85: Slightly altered andesite with disseminated py											
<<Min: 10.55 - 15.85 3% Pyrite>> Disseminated.											
<<Alt: 10.55 - 15.85 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 10.55 - 15.85 Weak (partial crystal replacement) Chlorite>>											
<b>15.85</b>	<b>16.15</b>	<b>FLT Fault</b>									
<b>16.15</b>	<b>51.36</b>	<b>AND Andesite</b>	17.16	17.89	0.73						
16.15 - 51.36: Variable in alteration and mineralization in this interval. Nothing in this interval strikes as "SLZN" based of foliations or veining, however, there are odd alteration patterns where mineralization has a "bleached halo in some areas. These alteration zone have been sampled as they have disseminated py and po throughout the alteration.											
<<Min: 16.52 - 18.9 5% Pyrite>> Disseminated											
<<Min: 16.52 - 18.9 3% Pyrrhotite>> Disseminated											
<<Min: 18.9 - 22.8 1% Pyrite>>											
<<Min: 18.9 - 22.8 0.5% Pyrrhotite>>											
<<Min: 22.8 - 28.04 5% Pyrite>> Disseminated											
<<Min: 22.8 - 28.04 3% Pyrrhotite>> Disseminated											
<<Min: 28.04 - 33.13 1% Pyrite>> Disseminated											
<<Min: 33.13 - 34.14 5% Pyrite>>											
<<Min: 33.13 - 34.14 3% Pyrrhotite>>											
<<Alt: 16.52 - 18.9 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 16.52 - 18.9 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 16.52 - 18.9 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 18.9 - 22.8 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Alt: 18.9 - 22.8 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 18.9 - 22.8 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 22.8 - 28.04 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 22.8 - 28.04 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 22.8 - 28.04 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 28.04 - 33.13 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 28.04 - 33.13 Subtle (restricted to crystal margins, fractures) Silica>>											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**SG-16-15**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Alt: 28.04 - 33.13		Weak (partial crystal replacement) Chlorite>>									
<<Alt: 33.13 - 34.14		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 33.13 - 34.14		Weak (partial crystal replacement) Sericite>>									
<<Alt: 33.13 - 34.14		Weak (partial crystal replacement) Silica>>									
<<Alt: 34.14 - 51.05		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 34.14 - 51.05		Subtle (restricted to crystal margins, fractures) Chlorite>>									
<b>51.36</b>	<b>51.88</b>	<b>SLZN Summit Lake Zone</b>	51.36	51.88	0.52						
51.36 - 51.88: Weak expression of the SLZN. Trace of py. Moderately foliated= cc vein type											
<<Alt: 51.36 - 51.88		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 51.36 - 51.88		Weak (partial crystal replacement) Carbonate>>									
<<Vein: 51.36 - 51.88		Calcite-dominant (CAL > PY + PO + CHL + SER) 38 deg. >>									
<<Struc: 51.36 - 51.88		Weak (partial crystal replacement) Foliation (penetrative planar fabric)>>									
<b>51.88</b>	<b>60.99</b>	<b>AND Andesite</b>									
51.88 - 60.99: Weakly altered andesite with local carbonate fractures.											
<<Alt: 51.88 - 60.99		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 51.88 - 60.99		Weak (partial crystal replacement) Chlorite>>									
<b>60.99</b>	<b>62.18</b>	<b>SLZN Summit Lake Zone</b>	60.99	62.18	1.19						
60.99 - 62.18: Massive sulfides in a low angle vein. Little to no carbonate present, when compared to the M-zone mineralization.											
<<Min: 60.99 - 62.18		40% Pyrite>>									
<<Min: 60.99 - 62.18		15% Pyrrhotite>>									
<<Alt: 60.99 - 62.18		Subtle (restricted to crystal margins, fractures) Silica>>									
<<Alt: 60.99 - 62.18		Subtle (restricted to crystal margins, fractures) K-feldspar>>									
<<Alt: 60.99 - 62.18		Strong (complete replacement, some primary QZ and textures) Chlorite>>									
<<Vein: 60.99 - 62.18		50% Sulphide +/- quartz vein (PO > PY +/- QTZ +/- CHL) 7 deg. >>									
<b>62.18</b>	<b>70.53</b>	<b>AND Andesite</b>									
62.18 - 70.53: Altered andesite with patchy alteration + py. Local cb-qtz veins present.											
<<Min: 62.18 - 70.53		3% Pyrite>> Disseminated									
<<Alt: 62.18 - 70.53		Subtle (restricted to crystal margins, fractures) Sericite>>									
<<Alt: 62.18 - 70.53		Moderate (most crystals replaced, textural modification) Chlorite>>									
<<Alt: 62.18 - 70.53		Weak (partial crystal replacement) Carbonate>>									

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**SG-16-15**

From (m)      To (m)      Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
70.53	71.41	0.88						

**70.53    71.41 SLZN    Summit Lake Zone**

70.53 - 71.41: Qtz-cb veining + foliation with notable cpy

- <<Min: 70.53 - 71.41 4% Sphalerite>>
- <<Min: 70.53 - 71.41 5% Pyrite>>
- <<Min: 70.53 - 71.41 3% Pyrrhotite>>
- <<Min: 70.53 - 71.41 2% Chalcopyrite>>
- <<Alt: 70.53 - 71.41 Moderate (most crystals replaced, textural modification) Sericite>>
- <<Alt: 70.53 - 71.41 Intense (no primary minerals, textures mostly destroyed) Chlorite>>
- <<Alt: 70.53 - 71.41 Subtle (restricted to crystal margins, fractures) Carbonate>>
- <<Vein: 70.53 - 71.41 90% Other veins (describe in Comments) 40 deg. >>    qtz-cb veining with sx
- <<Struc: 70.53 - 71.41 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>

**71.41    75.32 AND    Andesite**

71.41 - 75.32: Altered andesite with local sulfide stringers

- <<Min: 71.41 - 75.32 3% Pyrite>>    Disseminated
- <<Alt: 71.41 - 75.32 Weak (partial crystal replacement) Sericite>>
- <<Alt: 71.41 - 75.32 Weak (partial crystal replacement) K-feldspar>>
- <<Alt: 71.41 - 75.32 Moderate (most crystals replaced, textural modification) Chlorite>>
- <<Alt: 74.16 - 75.32 Subtle (restricted to crystal margins, fractures) Carbonate>>

**75.32    76.05 SLZN    Summit Lake Zone**

- <<Min: 75.32 - 76.05 5% Pyrite>>
- <<Min: 75.32 - 76.05 1% Pyrrhotite>>
- <<Min: 75.32 - 76.05 2% Chalcopyrite>>
- <<Min: 75.9 - 93.57 3% Pyrite>>    Disseminated
- <<Alt: 75.32 - 76.05 Subtle (restricted to crystal margins, fractures) Sericite>>
- <<Alt: 75.32 - 76.05 Moderate (most crystals replaced, textural modification) Chlorite>>
- <<Alt: 75.32 - 76.05 Subtle (restricted to crystal margins, fractures) Carbonate>>
- <<Alt: 75.9 - 93.57 Weak (partial crystal replacement) Sericite>>
- <<Alt: 75.9 - 93.57 Weak (partial crystal replacement) Chlorite>>
- <<Vein: 75.32 - 76.05 Calcite-dominant (CAL > PY + PO + CHL + SER) 20 deg. >>

**76.05    93.57 AND    Andesite**

76.05 - 93.57: Altered andsite with localized cb veining.

# GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**SG-16-15**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<b>93.57</b>	<b>94.18</b>	<b>FLT Fault</b>	93.57	94.18	0.61						
93.57 - 94.18: Fault zone with historic grade. Sampled was taken for confirmation. Weathered/ gossanous looking.											
<b>94.18</b>	<b>108.05</b>	<b>AND Andesite</b>	104.00	104.85	0.85						
94.18 - 108.05: Variable in alteration. Local patches of bleached like alteration near py veinlets. Samples were taken at those alteration zones. Alteration appears to have more sulfides than the rest of the andesite.											
<<Min: 94.18 - 101.41 2% Pyrite>>											
<<Min: 101.41 - 108.97 7% Pyrite>>											
<<Min: 101.41 - 108.97 3% Pyrrhotite>>											
<<Alt: 94.18 - 101.41 Weak (partial crystal replacement) Sericite>>											
<<Alt: 94.18 - 101.41 Moderate (most crystals replaced, textural modification) Chlorite>>											
<<Alt: 94.18 - 101.41 Subtle (restricted to crystal margins, fractures) Carbonate>>											
<<Alt: 101.41 - 108.97 Moderate (most crystals replaced, textural modification) Silica>>											
<<Alt: 101.41 - 108.97 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 101.41 - 109.58 Weak (partial crystal replacement) Chlorite>>											
<b>108.05</b>	<b>109.58</b>	<b>SLZN Summit Lake Zone</b>	108.97	109.58	0.61						
108.05 - 109.58: Strongly foliated SLZN. Almost has the appearance of layering.											
<<Min: 108.97 - 109.58 5% Sphalerite>>											
<<Min: 108.97 - 109.58 20% Pyrrhotite>>											
<<Min: 108.97 - 109.58 3% Chalcopyrite>>											
<<Alt: 108.97 - 109.58 Strong (complete replacement, some primary QZ and textures) Chlorite>>											
<<Vein: 108.97 - 109.58 Sulphide +/- quartz vein (PO > PY +/- QZ +/- CHL) 25 deg. >>											
<<Struc: 108.97 - 109.58 Strong (complete replacement, some primary QZ and textures) Foliation (penetrative planar fabric)>>											
<b>109.58</b>	<b>126.00</b>	<b>AND Andesite</b>	118.38	119.39	1.01						
<<Min: 109.58 - 126 2% Pyrite>> Disseminated											
<<Alt: 109.58 - 126 Subtle (restricted to crystal margins, fractures) Silica>>											
<<Alt: 109.58 - 126 Subtle (restricted to crystal margins, fractures) Sericite>>											
<<Alt: 109.58 - 126 Subtle (restricted to crystal margins, fractures) Chlorite>>											
<<Vein: 118.81 - 125.58 50% Calcite-dominant (CAL > PY + PO + CHL + SER) 48 deg. >>											
<b>126.00</b>	<b>130.09</b>	<b>SLZN Summit Lake Zone</b>									
126 - 130.09: Weak to moderate expression of the SLZN. Already sampled so none was taken.											



# GeoSpark Logger ~ Drill Log

**Project:** **Scottie Gold** **Hole Number:** **SG-16-15**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Min: 126 - 130.09 10% Pyrite>> <<Min: 126 - 130.09 2% Pyrrhotite>> <<Min: 126 - 130.09 1% Chalcopyrite>> <<Alt: 126 - 130.09 Weak (partial crystal replacement) Sericite>> <<Alt: 126 - 130.09 Moderate (most crystals replaced, textural modification) Chlorite>> <<Alt: 126 - 130.09 Subtle (restricted to crystal margins, fractures) Carbonate>> <<Vein: 126 - 130.09 Calcite-dominant (CAL > PY + PO + CHL + SER) 43 deg. >> <<Struc: 126 - 130.09 Moderate (most crystals replaced, textural modification) Foliation (penetrative planar fabric)>>											
<b>130.09</b>	<b>132.41</b>	<b>AND Andesite</b>									
130.09 - 132.41: Altered andesite with local py stringers											
<<Min: 130.09 - 132.41 2% Pyrite>> <<Alt: 130.09 - 132.41 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 130.09 - 132.41 Weak (partial crystal replacement) Chlorite>>											
<b>132.41</b>	<b>134.08</b>	<b>AND Andesite</b>	132.41	133.01	0.60						
132.41 - 134.08: Altered andesite with bleached halos around mineralization. Sulfies are patch rather than in veins....											
<<Min: 132.41 - 134.08 5% Pyrite>> <<Min: 132.41 - 134.08 2% Pyrrhotite>> <<Min: 132.41 - 134.08 1% Chalcopyrite>> <<Alt: 132.41 - 134.08 Moderate (most crystals replaced, textural modification) Silica>> <<Alt: 132.41 - 134.08 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 132.41 - 134.08 Weak (partial crystal replacement) K-feldspar>>											
<b>134.08</b>	<b>143.41</b>	<b>AND Andesite</b>									
<<Min: 134.08 - 143.41 1% Pyrite>> Disseminated <<Alt: 134.08 - 143.41 Subtle (restricted to crystal margins, fractures) Sericite>> <<Alt: 134.08 - 143.41 Weak (partial crystal replacement) Chlorite>>											
<b>143.41</b>	<b>143.87</b>	<b>VEIN massive vein</b>									
143.41 - 143.87: Quartz extensional vein											
<b>143.87</b>	<b>153.01</b>	<b>AND Andesite</b>	149.35	149.96	0.61						
143.87 - 153.01: Weakly foliated with minro cc veins in the interval but it doesn't seem to be a SLZN.... A sample is taken to compare with other weak SLZN											
<<Min: 143.87 - 153.01 2% Pyrite>> Disseminated											

## GeoSpark Logger ~ Drill Log

**Project:**

**Scottie Gold**

**Hole Number:**

**SG-16-15**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Alt: 143.87 - 153.01 Subtle (restricted to crystal margins, fractures) Sericite>>									
		<<Alt: 143.87 - 153.01 Weak (partial crystal replacement) Chlorite>>									
		<<Alt: 143.87 - 153.01 Subtle (restricted to crystal margins, fractures) Carbonate>>									
		<<Vein: 143.87 - 153.01 Calcite-dominant (CAL > PY + PO + CHL + SER) 52 deg. >>									
		<<Struc: 143.87 - 153.01 Subtle (restricted to crystal margins, fractures) Foliation (penetrative planar fabric)>>									
<b>End of Hole @ 153.05</b>											

**Appendix H: List of Core Assay Samples**

**Table H-1: List of samples taken in the 2018 relog program with Au assays (N = 115)**

Sample_ID	Hole_ID	From_m	To_m	Au_ppm
2617211	705	10.03	10.52	0.017
2617212	705	16.55	17.62	0.051
2617213	705	28.80	29.41	0.121
2617214	705	50.54	51.45	0.286
1189353	706	7.07	8.14	0.006
1189354	706	33.81	34.75	0.015
1189355	706	78.94	80.25	0.235
2617215	707	45.14	45.60	0.011
2617216	707	59.25	60.05	1.255
2617217	707	61.33	62.30	38.2
2617205	709	54.71	55.44	0.005
2617206	709	62.61	63.67	0.008
2617207	709	92.17	92.48	1.8
2617234	713	19.63	20.51	0.036
1189351	714	8.69	9.24	0.0005
1189352	714	23.23	23.62	0.004
1189373	718	2.04	3.60	1.62
1189374	718	49.47	50.17	0.012
1189375	718	70.44	71.35	0.005
1189376	718	87.14	88.09	0.006
1189377	718	106.83	107.90	19.75
1189378	718	110.03	110.73	0.118
2617224	724	35.33	36.12	0.004
2617225	724	121.31	122.13	0.015
2617226	724	131.83	132.44	2.72
2617227	724	134.72	135.51	1.165
2617250	725	6.07	7.01	0.041
2617249	725	7.32	8.23	0.053
1189369	725	26.21	27.13	0.023
1189370	725	74.52	75.29	0.054
1189371	725	109.12	109.94	0.024
1189372	725	109.95	110.34	0.034
2617202	726	46.02	46.33	0.062
2617203	726	46.33	46.63	0.033
2617204	726	47.18	47.67	0.044
2617228	729	28.41	29.02	93.9
2617229	729	31.30	32.22	0.102
2617230	729	46.51	47.85	0.194
1189366	731	51.82	52.64	0.042
1189363	731	58.86	59.77	0.053
1189364	731	69.80	70.71	0.024
1189365	731	98.51	99.27	0.096
1189360	732	42.15	42.67	0.005
1189361	732	65.53	66.72	0.036
1189362	732	107.78	109.00	6.31

2617201	733	29.87	30.36	0.002
1189356	734	20.79	21.95	0.016
1189357	734	75.74	76.87	0.075
1189358	734	80.16	81.38	7.03
1189359	734	92.66	93.48	0.018
2617231	735	86.65	87.45	5.17
2617232	735	95.25	96.19	0.023
2617233	735	108.05	108.66	0.233
2617244	739	4.27	5.49	0.294
2617245	739	18.71	19.51	0.028
2617246	739	50.84	51.15	3.73
2617247	739	61.42	62.18	0.105
2617248	739	65.23	65.53	0.054
1189390	745	82.39	83.21	0.003
1189391	745	94.43	95.28	0.056
1189392	745	116.22	116.95	0.016
1189393	745	130.73	131.34	0.005
1189379	748	74.97	76.07	0.247
1189380	748	95.10	96.01	0.019
1189381	748	128.02	128.63	0.002
1189382	748	128.63	129.24	0.002
1189383	748	129.24	129.84	0.002
1189384	748	129.84	130.45	0.002
1189385	748	130.45	131.06	0.005
1189386	748	131.06	131.67	0.003
1189387	748	148.65	149.53	0.051
1189388	748	172.52	173.28	0.013
1189389	748	180.93	181.97	0.038
2617208	750	14.20	15.03	0.001
2617209	750	34.72	35.72	0.004
2617210	750	155.72	156.94	1.81
2617220	752	31.91	32.58	0.127
2617221	752	97.08	97.54	0.053
2617222	752	121.25	121.62	0.014
2617223	752	161.36	162.49	0.021
2617218	757	75.99	76.99	0.17
2617219	757	197.85	198.15	0.017
1189367	758	18.62	18.99	0.02
1189368	758	72.09	72.60	0.255
2617236	762	10.03	10.33	0.002
2617235	762	11.89	12.65	0.013
2617237	762	54.19	55.17	0.044
2617238	762	66.75	67.67	0.526
2617239	762	96.16	96.77	0.12
2617240	762	107.47	108.66	0.042
2617241	762	189.59	190.96	0.225
2617242	762	226.59	227.26	0.907
2617243	762	234.85	235.61	0.014

1189394	SG-16-15	3.66	4.57	0.003
1189395	SG-16-15	4.72	5.33	0.004
1189396	SG-16-15	5.33	5.94	0.016
1189397	SG-16-15	5.94	6.55	0.015
1189398	SG-16-15	6.55	7.16	0.022
1189399	SG-16-15	7.16	7.77	0.007
1189400	SG-16-15	7.77	8.47	0.001
2617151	SG-16-15	17.16	17.89	0.0005
2617152	SG-16-15	22.80	23.41	0.005
2617153	SG-16-15	25.33	26.30	0.0005
2617155	SG-16-15	33.04	34.14	0.0005
2617154	SG-16-15	48.46	49.38	0.0005
2617156	SG-16-15	51.36	51.88	0.002
2617157	SG-16-15	60.99	62.18	0.083
2617158	SG-16-15	70.53	71.41	0.005
2617159	SG-16-15	93.57	94.18	0.027
2617160	SG-16-15	104.00	104.85	0.015
2617161	SG-16-15	105.16	105.95	0.214
2617162	SG-16-15	108.97	109.58	0.506
2617163	SG-16-15	118.38	119.39	0.006
2617164	SG-16-15	132.41	133.01	0.006
2617165	SG-16-15	149.35	149.96	0.003

**Appendix I: Core Assay COAs**





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 Plus Appendix Pages  
 Finalized Date: 5-OCT-2018  
 Account: EIA

**CERTIFICATE VA18239295**

Project: Scottie Gold  
 P.O. No.: ROT18-02  
 This report is for 115 Drill Core samples submitted to our lab in Terrace, BC, Canada on 8-SEP-2018.  
 The following have access to data associated with this certificate:  
 BRAD ROURKE                      RON VOORDOUW

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Hg-MS42	Trace Hg by ICPMS	ICP-MS

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
1189351		1.18	0.04	7.94	3.0	3670	0.72	0.08	4.21	0.09	21.7	15.2	38	6.60	23.3	7.55
1189352		0.56	0.06	6.98	4.3	2030	0.68	0.06	6.49	0.14	20.9	20.1	37	4.83	27.5	7.29
1189353		1.82	0.98	6.44	5.5	510	0.86	0.51	7.50	5.43	12.05	20.7	28	8.39	192.5	6.76
1189354		0.64	1.24	5.89	10.7	230	0.91	1.47	7.22	29.2	9.67	22.3	56	11.90	180.5	7.41
1189355		1.04	0.29	6.40	19.8	600	0.42	0.31	5.47	1.33	22.6	55.2	158	6.25	181.5	7.64
1189356		1.06	0.29	4.75	31.9	530	0.75	0.06	5.33	0.25	6.14	16.7	29	9.74	65.8	5.60
1189357		0.92	1.35	6.02	126.5	250	0.86	0.68	8.56	0.58	39.6	43.9	29	7.54	282	8.21
1189358		1.30	14.80	1.41	8220	30	0.17	25.4	8.40	7.23	5.74	985	12	1.47	950	30.5
1189359		1.20	0.58	7.48	32.2	380	0.77	0.69	5.16	0.30	17.50	46.9	77	2.15	319	8.93
1189360		0.90	0.10	7.92	12.1	1060	1.26	0.05	6.61	0.24	67.8	38.6	142	1.15	42.6	7.37
1189361		0.98	0.48	6.19	79.6	510	0.59	0.76	7.50	0.68	40.9	46.7	23	4.96	313	7.36
1189362		0.80	4.23	4.53	90.2	390	0.63	5.17	10.85	2.84	8.38	17.2	65	7.62	53.0	5.91
1189363		0.74	0.51	6.09	93.7	640	0.63	0.60	6.89	0.42	35.4	30.2	34	5.79	228	6.85
1189364		0.76	1.45	7.34	46.1	370	1.05	1.64	5.09	6.60	14.35	68.1	26	8.20	407	8.99
1189365		1.22	3.50	5.53	63.4	130	0.72	4.64	2.42	0.51	8.03	117.0	43	4.31	942	16.70
1189366		0.66	0.35	6.82	13.4	420	0.76	0.77	6.44	0.37	20.3	30.4	29	9.51	218	6.86
1189367		0.68	0.56	6.05	51.5	140	0.43	0.65	4.94	0.85	27.8	91.9	25	3.79	645	10.90
1189368		0.50	1.84	5.95	45.0	590	0.85	0.90	6.67	0.38	35.6	58.7	37	13.35	478	7.98
2617201		0.72	0.08	7.02	6.8	1850	0.82	0.13	4.79	0.19	20.6	27.0	31	2.56	78.7	8.26
2617202		0.58	0.64	4.77	172.5	580	0.61	0.56	4.03	1.88	11.75	16.4	20	5.87	101.5	5.02
2617203		1.16	1.06	6.49	30.9	560	1.08	0.46	4.51	0.30	24.6	39.4	19	9.83	256	7.85
2617204		0.90	0.96	6.55	28.0	790	1.08	0.44	4.33	0.53	20.6	39.5	20	9.46	225	7.86
2617205		1.50	0.12	6.62	7.5	310	0.74	0.29	5.54	0.25	18.95	33.2	51	2.66	181.0	9.67
2617206		0.78	0.21	6.91	6.9	580	0.72	0.46	6.78	0.23	11.05	37.1	30	2.20	300	8.41
2617207		0.72	0.90	5.13	39.4	270	1.04	1.64	6.57	0.93	25.1	77.9	103	1.53	391	13.35
2617208		1.28	0.05	7.55	4.9	520	0.79	0.07	4.61	0.20	15.10	6.1	27	4.95	4.9	2.58
2617209		1.28	0.20	6.05	14.4	530	0.66	0.10	4.47	0.08	11.70	5.6	21	3.26	20.7	2.79
2617210		0.80	2.26	3.75	213	50	0.46	3.23	9.91	15.95	10.60	32.1	27	3.06	277	11.45
2617211		0.50	17.40	5.13	23.5	310	0.66	30.9	8.99	87.5	19.30	26.2	31	7.49	578	8.27
2617212		0.84	1.83	6.21	50.7	280	0.79	1.72	3.96	4.94	8.60	23.7	35	11.35	254	11.15
2617213		0.60	5.06	2.08	45.6	70	0.33	5.70	7.20	4.99	6.19	140.0	5	2.64	970	20.8
2617214		0.76	2.25	2.46	58.8	20	0.25	2.92	1.72	21.5	3.08	9.2	45	1.46	102.5	7.22
2617215		0.38	0.22	6.66	5.7	540	0.58	0.68	4.59	0.32	21.2	49.0	23	2.75	367	8.86
2617216		0.66	0.53	7.26	1395	150	0.61	1.03	0.85	0.14	7.92	54.7	26	11.45	668	9.67
2617217		0.88	3.32	4.83	96.7	20	0.74	5.06	3.84	0.46	25.4	256	20	1.19	1170	19.55
2617218		0.92	7.46	2.88	269	140	0.20	1.64	1.81	1.14	4.71	259	21	2.85	1810	25.2
2617219		0.38	2.01	6.07	11.0	260	0.70	2.10	6.75	6.74	12.75	45.4	26	3.05	386	8.20
2617220		0.98	0.55	4.56	21.8	610	0.40	0.14	6.26	0.54	10.75	13.2	21	1.71	31.8	3.94
2617221		0.84	1.70	4.02	41.0	360	0.51	0.52	5.23	0.26	5.23	10.8	16	4.25	39.2	3.78
2617222		0.86	0.55	6.22	33.5	490	0.74	0.22	0.90	0.22	12.55	20.8	34	3.74	34.6	4.58



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 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
1189351		15.05	0.13	1.1	<0.005	0.080	3.75	11.1	32.6	3.11	1030	0.90	2.07	4.9	10.2	1920
1189352		14.30	0.12	1.1	0.006	0.098	2.48	10.7	39.5	2.85	948	1.39	1.67	4.4	11.9	1670
1189353		13.60	0.09	1.2	0.038	0.240	1.91	7.4	70.3	2.86	2750	54.3	0.02	3.8	13.0	1350
1189354		12.10	0.11	0.9	0.300	0.397	1.62	5.9	114.5	3.05	2930	233	0.01	3.2	16.3	1370
1189355		10.55	0.13	0.6	0.012	0.164	5.49	11.6	14.9	0.79	875	1.22	0.23	3.7	22.9	1630
1189356		10.20	0.08	0.6	0.031	0.042	1.89	2.8	51.7	1.72	746	0.91	0.26	2.2	10.5	980
1189357		14.20	0.10	1.0	0.016	0.239	1.75	26.1	46.0	1.82	1550	0.80	0.09	3.7	12.6	1520
1189358		3.88	0.16	0.2	0.122	0.069	0.13	3.5	18.2	0.60	1120	242	0.01	0.5	205	2420
1189359		14.45	0.08	1.3	<0.005	0.197	0.48	8.7	41.6	3.63	940	5.60	3.35	4.3	21.9	2030
1189360		18.35	0.13	3.5	0.007	0.076	2.01	32.7	27.1	4.24	1170	0.53	2.55	18.9	54.2	2690
1189361		12.15	0.09	1.0	0.035	0.115	1.72	29.9	36.1	1.72	857	8.32	1.92	3.5	14.7	1360
1189362		11.70	0.05	0.9	0.062	0.538	1.04	3.7	62.5	2.84	2350	63.1	0.07	3.5	9.0	1120
1189363		12.25	0.09	0.9	0.029	0.210	3.26	24.1	32.5	1.47	920	1.55	0.96	3.5	10.4	1410
1189364		11.95	0.10	0.8	0.057	0.217	3.13	8.6	40.5	1.82	741	2.52	0.78	3.9	13.5	1490
1189365		14.90	0.08	0.7	0.010	0.179	0.72	3.3	48.3	2.06	1100	13.70	1.08	3.6	38.3	1240
1189366		15.00	0.08	1.0	0.080	0.116	2.96	12.1	27.3	1.60	542	1.88	1.61	4.1	14.3	1450
1189367		13.15	0.13	0.7	0.038	0.155	5.44	16.3	24.9	1.14	701	0.66	0.21	4.2	23.1	1540
1189368		13.90	0.10	1.1	0.049	0.095	2.95	21.8	45.6	1.63	1060	6.92	0.47	4.0	12.5	1380
2617201		16.85	0.11	1.0	0.011	0.093	2.54	10.3	28.4	3.18	954	0.56	2.26	5.0	11.9	1770
2617202		12.00	0.07	0.7	0.076	0.101	2.61	6.2	52.3	1.47	1060	1.68	0.46	3.2	5.9	1150
2617203		16.60	0.10	0.8	0.032	0.202	2.47	14.2	76.8	2.39	1440	1.85	0.72	4.0	10.7	1580
2617204		16.25	0.10	0.8	0.025	0.179	2.54	11.5	65.1	2.16	1270	1.07	0.91	4.3	9.6	1650
2617205		16.15	0.08	1.2	<0.005	0.163	0.62	9.8	24.7	3.37	877	2.62	2.65	4.4	15.6	1490
2617206		15.55	0.07	1.3	0.008	0.146	1.16	5.6	27.6	1.99	585	0.65	2.64	4.5	10.2	1550
2617207		16.80	0.07	1.3	0.019	0.183	0.14	13.7	30.0	3.92	1210	47.9	1.68	6.4	58.6	1830
2617208		15.85	0.12	0.7	<0.005	0.076	1.48	6.4	23.7	1.72	567	0.35	3.72	4.3	9.6	1190
2617209		14.45	0.12	0.5	<0.005	0.060	1.69	5.4	44.6	1.25	226	0.82	1.45	3.3	5.0	880
2617210		10.30	0.10	0.3	0.191	0.452	0.25	5.8	60.9	2.87	3540	61.4	0.06	0.9	11.8	4540
2617211		11.35	0.07	0.8	0.699	1.090	1.20	11.3	51.5	1.69	2970	13.30	0.61	3.4	11.2	1130
2617212		14.90	0.07	0.6	0.061	0.119	2.61	4.3	42.4	1.31	1170	7.52	0.13	3.9	11.2	1340
2617213		8.28	0.16	0.3	0.088	0.471	0.36	4.0	23.8	0.75	1120	101.0	0.01	0.7	56.6	240
2617214		10.45	<0.05	0.3	0.247	0.684	0.08	1.6	67.3	2.24	2160	193.0	0.01	0.3	8.1	2010
2617215		14.20	0.08	1.2	0.019	0.096	2.85	12.0	44.6	1.95	572	8.26	1.50	4.3	14.5	1410
2617216		15.40	0.10	0.7	0.101	0.017	4.52	2.8	8.9	0.34	77	3.10	1.11	4.6	15.1	1510
2617217		12.85	0.15	0.8	0.038	0.203	0.06	17.2	36.6	2.27	497	8.66	1.69	3.1	24.5	1460
2617218		10.75	0.13	0.3	0.074	0.105	0.85	2.1	35.0	1.33	429	2.17	0.03	1.9	34.4	600
2617219		15.15	0.06	1.0	0.048	0.361	0.51	6.4	47.7	1.97	1470	5.90	1.49	3.6	17.0	1250
2617220		6.88	0.05	0.4	0.016	0.025	2.40	5.3	22.0	0.59	711	0.86	1.38	2.5	6.7	700
2617221		11.65	<0.05	0.3	0.020	0.099	1.51	2.4	35.5	1.46	688	1.40	0.05	1.9	6.1	500
2617222		15.65	0.09	1.0	<0.005	0.044	2.01	6.3	40.3	1.61	287	0.90	0.87	3.3	12.2	890



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
1189351		1.6	87.2	<0.002	0.21	3.05	44.7	1	1.3	453	0.26	<0.05	1.36	0.527	0.89	0.6
1189352		2.8	59.5	<0.002	0.34	3.40	45.8	1	1.6	376	0.23	<0.05	1.35	0.484	0.59	0.7
1189353		56.0	94.4	0.023	2.35	9.16	27.2	4	4.7	118.0	0.20	0.11	1.52	0.422	1.31	1.1
1189354		214	104.5	0.132	2.70	13.55	34.5	3	4.7	108.0	0.18	0.05	1.00	0.403	1.14	0.9
1189355		16.6	88.6	<0.002	2.45	8.14	40.1	1	1.5	428	0.20	0.07	0.83	0.403	1.48	1.1
1189356		4.1	90.5	<0.002	1.82	9.96	28.2	2	0.7	109.5	0.12	<0.05	0.75	0.290	1.48	0.3
1189357		10.3	110.0	<0.002	4.41	12.55	31.3	1	5.0	109.5	0.22	0.25	1.37	0.465	1.08	0.8
1189358		759	6.6	0.095	>10.0	64.9	12.0	37	1.6	121.5	<0.05	3.01	0.39	0.061	0.59	0.2
1189359		11.7	14.9	0.002	2.31	5.34	42.3	1	3.1	970	0.25	0.15	1.40	0.507	0.16	0.9
1189360		9.1	35.7	<0.002	0.30	2.03	26.3	<1	1.1	1315	0.91	<0.05	2.57	0.960	0.39	0.9
1189361		11.1	61.5	<0.002	4.50	11.55	29.3	2	2.4	379	0.19	0.27	1.22	0.441	1.79	0.8
1189362		41.6	68.8	0.041	1.57	6.98	28.2	2	8.7	131.0	0.20	0.44	1.55	0.316	0.81	1.0
1189363		8.7	106.0	<0.002	3.34	10.50	32.1	1	4.0	254	0.20	0.14	1.57	0.439	1.69	0.7
1189364		398	101.0	<0.002	4.57	6.24	29.3	9	5.7	304	0.22	0.32	0.94	0.483	1.44	0.7
1189365		25.3	17.1	<0.002	8.71	11.35	31.5	9	4.1	161.0	0.17	0.59	0.84	0.375	0.51	0.6
1189366		18.7	142.5	0.003	3.43	14.80	35.4	1	2.8	452	0.20	0.19	1.32	0.445	1.47	0.7
1189367		23.7	110.5	<0.002	5.23	14.65	38.5	1	1.9	337	0.20	0.10	0.88	0.438	1.41	0.5
1189368		14.4	147.0	0.004	5.40	13.30	32.3	1	2.4	175.5	0.22	0.37	2.05	0.399	1.97	0.9
2617201		3.4	48.9	<0.002	0.83	5.25	41.8	1	1.3	512	0.24	0.05	1.36	0.456	0.79	0.7
2617202		41.9	103.5	0.002	2.50	21.9	29.7	2	2.2	115.5	0.15	0.12	0.94	0.286	2.05	0.5
2617203		26.7	114.5	<0.002	3.34	14.45	35.8	1	2.7	161.5	0.19	0.10	1.34	0.398	1.59	0.7
2617204		26.0	100.0	<0.002	2.90	15.80	37.5	1	2.7	220	0.20	0.11	1.22	0.422	1.88	0.6
2617205		7.3	21.5	0.002	2.39	5.70	41.7	<1	2.2	545	0.23	0.10	1.49	0.476	0.29	0.6
2617206		4.8	35.9	0.002	2.95	5.11	33.7	<1	2.5	546	0.24	0.12	1.66	0.433	0.66	0.6
2617207		30.1	3.9	0.019	4.06	7.15	33.7	8	2.7	445	0.30	0.33	1.82	0.417	0.62	0.9
2617208		8.7	50.6	0.002	0.07	2.65	22.9	1	2.2	599	0.23	<0.05	1.20	0.411	0.46	0.5
2617209		12.5	66.6	<0.002	0.37	4.26	17.4	1	1.8	96.3	0.19	0.07	0.76	0.357	0.56	0.3
2617210		86.7	14.1	0.067	5.77	12.50	25.2	7	5.8	117.5	0.05	0.17	1.20	0.110	0.23	0.3
2617211		719	74.5	0.004	3.67	11.65	29.3	4	4.9	210	0.18	0.40	1.25	0.341	1.07	0.4
2617212		37.3	133.5	<0.002	8.66	26.2	33.9	1	5.0	176.0	0.20	0.10	0.95	0.418	1.78	0.5
2617213		114.0	21.0	0.060	>10.0	23.0	9.4	31	4.1	143.5	<0.05	0.55	0.48	0.077	0.64	0.3
2617214		108.5	4.8	0.086	4.06	16.05	61.0	3	3.4	20.4	<0.05	0.51	2.09	0.050	0.49	0.4
2617215		5.9	60.3	<0.002	4.05	6.54	31.8	<1	2.1	306	0.22	0.28	1.42	0.457	1.11	0.6
2617216		7.1	165.5	0.002	6.79	15.40	34.5	<1	0.2	183.5	0.25	<0.05	0.99	0.491	3.13	0.3
2617217		8.9	2.0	0.002	>10.0	10.60	22.9	28	3.1	330	0.17	1.59	1.46	0.325	0.77	1.0
2617218		23.7	20.3	<0.002	>10.0	29.0	20.0	16	2.3	90.4	0.08	0.83	0.45	0.168	3.56	0.2
2617219		94.9	19.7	0.002	4.24	29.7	28.3	6	6.6	491	0.19	0.19	0.98	0.369	0.32	0.8
2617220		13.7	68.8	<0.002	3.06	4.06	12.9	1	0.3	287	0.14	0.08	0.78	0.252	4.39	0.3
2617221		18.2	73.1	0.002	1.41	4.61	13.1	2	3.8	377	0.10	0.09	0.42	0.194	1.37	0.3
2617222		9.6	87.2	0.002	1.81	4.20	21.0	3	1.1	111.5	0.18	0.20	0.99	0.330	0.70	0.4



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	Au-ICP21	Au-GRA21
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Zn % 0.001	Au ppm 0.001	Au ppm 0.05
1189351		351	0.8	18.6	52	29.9		<0.001	
1189352		334	1.3	17.4	51	31.2		0.004	
1189353		242	1.6	15.5	399	28.4		0.006	
1189354		244	2.7	15.2	1700	24.9		0.015	
1189355		251	13.7	18.0	75	13.8		0.235	
1189356		208	3.3	6.4	35	11.1		0.016	
1189357		237	3.9	13.5	74	23.0		0.075	
1189358		173	1.6	4.5	487	3.1		7.03	
1189359		296	1.2	18.7	66	28.1		0.018	
1189360		221	0.6	20.1	132	141.5		0.005	
1189361		225	14.7	15.0	57	24.1		0.036	
1189362		264	1.8	13.7	232	30.8		6.31	
1189363		260	9.0	13.5	50	23.5		0.053	
1189364		193	1.7	16.8	415	18.2		0.024	
1189365		199	1.5	15.7	88	16.6		0.096	
1189366		269	2.1	17.2	39	26.0		0.042	
1189367		283	2.6	15.1	52	14.6		0.020	
1189368		221	4.2	13.7	37	31.6		0.255	
2617201		314	1.0	15.9	49	25.8		0.002	
2617202		197	9.9	7.9	139	14.6		0.062	
2617203		261	6.2	9.2	62	16.6		0.033	
2617204		273	7.1	12.4	66	16.7		0.044	
2617205		281	1.0	19.7	51	29.1		0.005	
2617206		254	1.0	17.6	36	35.4		0.008	
2617207		264	1.2	15.6	132	44.8		1.800	
2617208		165	3.3	15.2	33	16.8		0.001	
2617209		160	4.3	8.2	32	10.2		0.004	
2617210		349	1.5	9.1	993	8.9		1.810	
2617211		206	1.6	15.5	5630	17.7		0.017	
2617212		222	4.6	9.3	291	15.7		0.051	
2617213		246	5.2	13.0	237	7.6		0.121	
2617214		529	1.1	4.6	1340	4.9		0.286	
2617215		223	1.1	17.5	39	28.3		0.011	
2617216		260	54.3	16.2	8	15.3		1.255	
2617217		200	1.2	13.6	42	21.9		>10.0	38.2
2617218		126	2.1	6.2	36	6.6		0.170	
2617219		208	1.7	15.8	443	26.6		0.017	
2617220		103	3.7	6.7	61	12.2		0.127	
2617221		155	2.5	6.6	40	7.0		0.053	
2617222		180	3.8	7.9	56	21.9		0.014	



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**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2617223		0.76	5.19	7.12	101.0	680	0.94	6.83	4.93	2.48	14.65	29.4	20	8.28	332	8.69
2617224		1.22	0.45	7.16	3.7	1760	0.63	0.17	3.23	0.19	17.25	20.3	59	3.73	99.5	8.45
2617225		0.82	1.31	6.90	9.1	380	0.92	0.88	3.83	1.44	8.87	66.8	34	7.89	508	10.15
2617226		0.48	3.60	5.32	57.4	260	0.73	2.22	4.47	3.20	15.05	58.3	23	6.50	563	13.45
2617227		0.70	12.85	0.63	169.5	20	0.30	11.05	10.60	27.3	6.01	130.5	21	1.49	924	17.30
2617228		0.90	15.25	1.44	120.0	20	0.19	5.59	6.82	2.30	17.95	225	15	0.45	1630	22.4
2617229		0.84	0.28	6.51	19.8	150	0.85	0.72	5.49	0.19	42.1	25.1	51	2.29	220	8.21
2617230		1.14	2.13	5.24	39.2	180	0.76	2.02	4.87	1.02	24.1	88.6	44	4.33	608	12.80
2617231		0.72	7.39	4.39	386	290	0.52	6.50	9.88	27.3	14.90	38.3	16	5.79	556	7.93
2617232		0.86	1.34	6.16	16.2	320	0.84	1.83	4.89	0.42	9.21	54.7	28	8.23	505	9.66
2617233		0.88	0.28	3.46	7.8	110	0.57	0.19	11.65	1.36	5.35	5.3	103	2.67	22.0	4.90
2617234		0.98	0.17	5.89	23.9	1300	0.46	0.14	7.81	0.21	19.65	28.7	33	2.60	74.2	6.38
2617235		1.24	0.24	6.81	6.4	2610	0.65	0.09	5.09	0.28	16.00	21.2	37	4.60	153.0	6.35
2617236		0.78	0.08	6.80	3.2	2230	0.57	0.18	6.18	0.20	19.85	14.5	32	3.36	23.2	5.61
2617237		0.52	1.47	4.38	37.5	340	0.46	0.27	3.91	38.1	8.86	28.9	26	3.20	234	5.44
2617238		0.64	11.05	5.34	3090	390	0.62	5.00	4.13	76.5	10.55	22.4	28	6.48	456	6.33
2617239		0.62	3.60	5.83	84.9	490	0.72	2.93	2.88	46.4	12.05	20.6	33	13.30	141.0	5.58
2617240		0.56	0.92	5.17	57.1	650	0.56	0.20	6.02	1.42	11.40	28.6	27	4.86	108.0	10.25
2617241		0.72	18.00	5.17	156.5	750	0.54	12.75	2.45	262	9.07	34.0	24	6.77	578	7.59
2617242		1.06	26.4	4.82	1950	260	0.55	18.20	6.86	83.3	15.35	40.9	27	7.22	649	9.81
2617243		0.92	1.18	6.55	28.1	1930	0.95	0.82	5.88	7.31	18.00	29.9	29	7.45	91.1	6.80
2617244		0.90	1.34	5.09	53.2	140	0.52	1.24	3.49	0.43	13.50	61.5	30	5.70	477	7.36
2617245		1.36	0.29	6.21	11.6	380	0.66	0.60	5.78	0.28	5.93	42.9	42	2.75	267	8.67
2617246		0.76	11.25	5.12	5800	210	0.66	8.87	5.72	91.4	136.5	167.0	23	4.61	672	12.60
2617247		1.16	0.39	7.17	15.2	640	0.81	1.34	6.50	0.43	24.0	35.8	26	3.25	274	7.91
2617248		0.70	0.55	7.22	9.0	1500	0.73	1.02	6.38	0.55	12.75	40.3	25	3.15	272	7.72
2617249		0.84	0.97	4.17	244	540	0.44	0.40	6.80	0.48	10.45	23.6	25	5.47	133.0	5.27
2617250		1.90	0.73	5.60	140.0	250	0.57	0.45	2.91	0.31	8.93	27.8	51	7.05	131.0	7.02
1189369		0.88	0.70	6.81	29.5	700	0.52	0.30	5.83	0.25	28.3	25.4	33	1.94	117.5	7.76
1189370		1.20	0.30	6.64	11.5	780	0.71	0.67	4.80	0.89	17.60	32.0	32	6.33	206	9.12
1189371		1.14	0.28	6.81	3.4	560	0.61	0.43	5.09	0.26	16.85	32.3	33	5.56	212	6.53
1189372		1.30	0.34	7.31	4.5	780	0.73	0.62	5.15	0.22	21.6	39.4	36	7.54	266	10.30
1189373		1.24	19.35	2.31	137.0	90	0.29	33.2	8.63	8.91	4.91	40.6	15	2.68	544	13.60
1189374		1.24	0.97	6.81	10.4	520	0.70	0.55	3.13	14.60	24.0	37.3	72	4.60	280	8.16
1189375		1.52	0.07	5.86	19.8	1850	0.51	0.08	7.00	0.37	12.50	24.2	120	4.51	13.1	5.95
1189376		1.64	0.23	6.36	4.6	910	0.64	0.07	6.07	0.21	16.75	31.0	123	2.96	174.5	8.19
1189377		0.80	25.8	1.07	926	20	0.11	30.7	6.09	121.0	4.27	156.5	11	0.88	1330	21.5
1189378		0.54	7.89	3.22	34.5	50	0.22	10.85	3.05	65.7	7.84	37.6	55	2.75	346	12.00
1189379		1.08	12.10	3.06	390	150	0.30	14.75	2.43	0.49	4.12	64.3	15	1.99	368	10.10
1189380		1.46	1.17	6.89	32.2	1320	0.51	0.60	1.93	0.27	15.95	23.9	55	1.76	117.5	6.16



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**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
2617223		16.05	0.09	1.2	0.021	0.106	2.15	6.4	49.2	2.20	2880	0.80	0.07	4.8	23.1	1400
2617224		16.70	0.10	0.8	<0.005	0.063	2.33	8.3	58.8	3.33	1030	0.32	2.03	4.3	13.9	1660
2617225		16.15	0.10	1.0	0.014	0.177	1.83	4.0	35.2	1.33	636	10.45	1.60	4.3	10.7	1550
2617226		12.85	0.08	0.8	0.046	0.226	1.20	9.3	61.4	2.32	1410	138.5	0.47	3.4	34.7	1560
2617227		5.13	0.13	0.1	0.252	0.503	0.03	3.2	6.4	0.56	1670	15.80	0.02	0.1	98.8	1850
2617228		5.27	0.12	0.3	0.217	0.157	0.04	12.4	23.2	0.91	545	141.5	0.02	1.0	23.8	680
2617229		16.10	0.06	1.4	<0.005	0.201	0.34	25.0	47.6	2.29	844	0.79	2.55	4.5	14.5	1500
2617230		14.70	0.08	1.2	0.017	0.211	0.96	14.5	47.8	2.41	1250	89.7	0.67	3.9	79.8	1410
2617231		11.95	0.05	0.6	0.250	0.227	1.16	9.9	44.5	1.89	2610	82.3	0.04	2.2	6.7	920
2617232		12.95	0.05	1.1	0.013	0.149	1.87	4.8	28.8	1.32	814	10.05	0.98	4.5	12.7	1550
2617233		8.47	<0.05	0.4	0.007	0.243	0.43	2.8	47.9	2.78	3310	4.85	0.04	1.5	3.1	2440
2617234		11.95	0.08	0.8	0.040	0.091	2.91	11.5	31.9	1.35	816	2.82	1.31	3.5	12.5	1430
2617235		13.10	0.09	0.8	0.005	0.056	3.64	7.4	17.8	2.63	1020	5.69	1.54	4.6	12.7	1750
2617236		13.60	0.11	0.8	0.043	0.039	3.90	10.6	21.6	1.76	1080	0.46	1.53	4.3	11.2	1570
2617237		8.55	0.07	0.4	0.464	0.244	2.30	4.1	26.1	1.37	791	0.99	0.50	2.7	8.4	1000
2617238		11.65	0.11	0.6	0.881	1.235	3.00	5.1	32.2	1.56	1100	1.10	0.18	3.2	11.5	1180
2617239		12.65	0.09	0.7	0.949	0.377	2.88	5.6	34.9	1.13	950	1.30	0.02	3.6	10.1	1350
2617240		9.71	0.07	0.6	0.827	0.045	2.38	5.0	36.9	1.20	1340	1.02	1.02	2.9	10.7	1170
2617241		11.20	0.10	0.6	5.57	2.60	2.80	3.5	44.0	1.64	1320	1.55	0.06	3.3	9.7	1200
2617242		10.85	0.09	0.5	1.180	0.473	1.52	6.8	34.5	1.76	1890	4.54	0.38	2.9	8.6	1030
2617243		14.00	0.10	0.7	0.133	0.117	4.28	8.8	24.8	2.41	1980	2.01	0.62	3.9	12.1	1520
2617244		9.99	0.09	0.5	0.079	0.044	3.63	6.2	13.5	0.28	463	10.95	1.11	3.3	12.7	1200
2617245		15.05	0.05	1.1	0.012	0.137	0.93	2.6	39.9	2.55	1160	7.02	2.08	3.9	13.0	1380
2617246		13.95	0.16	0.6	0.776	0.606	0.71	85.2	53.9	1.88	1920	7.93	0.22	2.9	20.1	1000
2617247		13.55	0.07	1.1	0.011	0.407	1.10	14.1	25.0	1.42	1040	2.27	2.89	4.5	15.1	1710
2617248		15.80	0.06	1.2	0.008	0.144	1.86	6.1	39.6	2.09	1200	1.64	1.45	4.5	14.7	1690
2617249		7.64	0.07	0.4	0.059	0.088	3.40	4.7	17.2	0.68	1000	0.87	0.10	2.1	10.4	890
2617250		12.55	0.09	0.7	0.037	0.147	4.24	3.5	24.0	1.03	626	1.31	0.09	3.5	13.6	1340
1189369		14.50	0.08	0.8	0.005	0.144	1.81	14.5	46.3	1.87	951	0.91	1.93	4.5	11.7	1760
1189370		14.85	0.07	0.9	0.012	0.350	2.19	9.1	35.4	1.32	1140	0.94	1.66	4.1	11.7	1490
1189371		13.15	0.09	1.0	0.008	0.097	3.57	8.0	37.6	1.56	1060	1.30	1.46	4.3	13.5	1570
1189372		15.70	0.08	1.0	0.010	0.276	1.32	10.7	46.7	2.15	1360	0.73	1.97	4.5	16.1	1630
1189373		6.05	0.06	0.3	0.120	0.135	0.36	3.1	34.2	1.24	3400	31.5	0.02	1.2	14.0	630
1189374		13.50	0.08	1.0	0.201	0.185	1.72	14.4	49.3	1.94	1140	3.50	2.43	4.4	20.9	1640
1189375		11.30	0.06	0.9	0.007	0.050	2.27	5.9	40.4	2.62	846	0.65	1.30	3.5	24.2	1360
1189376		13.05	0.07	0.9	0.006	0.052	1.39	8.7	27.6	3.96	1320	0.65	2.09	3.8	26.5	1460
1189377		5.01	0.11	<0.1	1.380	1.285	0.03	2.2	14.2	0.67	1010	17.55	0.02	0.2	29.2	950
1189378		10.45	0.05	0.5	0.851	0.682	0.15	4.5	75.5	2.34	2680	19.50	0.01	1.9	6.8	760
1189379		10.00	0.07	0.4	0.017	0.250	0.81	1.6	26.2	1.44	561	0.72	0.16	2.4	133.5	70
1189380		13.05	0.07	0.4	0.008	0.039	1.62	7.8	37.5	2.17	543	1.93	2.47	4.1	15.4	1290





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 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
2617223		390	118.5	<0.002	2.24	9.28	29.9	7	7.1	93.2	0.26	0.48	1.13	0.511	1.46	0.6
2617224		8.2	49.3	0.002	0.24	3.19	42.9	<1	1.1	426	0.22	<0.05	1.09	0.487	0.81	0.5
2617225		8.2	72.5	<0.002	5.16	8.06	36.1	5	4.2	420	0.22	0.33	0.93	0.484	1.00	0.9
2617226		11.1	66.6	0.104	5.05	5.18	34.1	11	4.6	152.5	0.15	0.75	1.35	0.309	0.78	1.0
2617227		241	1.2	0.019	>10.0	54.3	26.9	32	2.7	105.5	<0.05	0.56	0.91	0.028	0.68	0.1
2617228		100.0	1.2	0.018	>10.0	18.55	11.5	22	1.5	102.5	0.05	1.43	0.96	0.101	0.68	0.4
2617229		6.5	10.8	<0.002	2.28	6.11	42.6	1	4.1	353	0.24	0.07	1.70	0.456	0.16	1.0
2617230		18.8	49.6	0.012	7.78	15.60	29.4	12	3.4	256	0.21	0.39	1.16	0.370	0.70	1.3
2617231		439	70.4	0.003	3.39	17.55	17.2	4	4.2	146.5	0.12	0.53	0.75	0.227	1.01	0.6
2617232		18.7	106.0	0.005	5.37	15.95	34.2	3	4.1	205	0.24	0.17	1.23	0.432	1.82	0.9
2617233		10.9	26.8	0.002	0.79	4.49	86.4	1	2.1	146.0	0.07	<0.05	1.00	0.156	0.37	0.5
2617234		4.3	80.6	<0.002	1.83	8.16	38.4	1	1.3	224	0.17	<0.05	1.07	0.396	1.75	0.4
2617235		4.0	73.5	<0.002	0.14	5.13	33.7	<1	0.6	582	0.24	<0.05	1.07	0.401	0.87	0.6
2617236		4.6	107.0	<0.002	0.82	3.43	34.6	<1	0.5	429	0.24	<0.05	1.25	0.386	2.27	0.6
2617237		34.2	71.0	<0.002	2.58	15.25	22.8	2	0.5	197.5	0.14	<0.05	0.73	0.230	0.89	0.3
2617238		1255	114.0	<0.002	2.92	55.1	28.3	16	3.5	114.5	0.17	0.24	0.82	0.329	1.47	0.4
2617239		322	166.0	<0.002	3.77	52.5	30.8	3	2.7	44.9	0.19	0.10	1.03	0.351	1.92	0.4
2617240		52.0	77.4	0.002	7.78	19.50	29.1	1	0.6	210	0.15	<0.05	0.80	0.343	4.26	0.4
2617241		2290	108.5	<0.002	5.25	20.3	27.1	15	3.2	108.5	0.17	0.47	0.90	0.327	1.67	0.3
2617242		1605	55.6	<0.002	5.79	22.3	25.5	13	3.0	210	0.15	1.91	1.19	0.292	1.74	0.9
2617243		87.3	105.5	<0.002	1.22	3.16	34.6	2	0.8	474	0.20	0.08	1.01	0.406	1.30	0.8
2617244		8.5	113.0	0.004	6.37	14.90	22.7	1	1.4	204	0.18	0.12	0.84	0.356	1.55	0.4
2617245		8.2	38.2	<0.002	2.84	7.30	33.1	1	1.7	392	0.21	0.12	1.15	0.425	0.55	0.5
2617246		553	31.7	<0.002	7.99	46.5	25.2	9	10.5	281	0.15	0.88	1.02	0.308	1.40	1.4
2617247		13.6	29.0	<0.002	3.21	6.33	34.6	1	3.6	477	0.24	0.18	1.52	0.491	0.41	0.9
2617248		15.7	57.7	<0.002	2.04	9.56	34.4	1	2.0	561	0.25	0.15	1.23	0.457	0.65	0.8
2617249		16.8	114.5	<0.002	4.01	28.7	21.8	2	1.4	140.5	0.11	<0.05	0.48	0.254	2.54	0.3
2617250		7.8	121.0	<0.002	4.08	19.20	36.2	2	1.9	143.0	0.17	<0.05	0.82	0.375	2.61	0.4
1189369		20.0	43.9	<0.002	2.81	9.25	39.9	1	1.8	558	0.22	<0.05	1.29	0.443	0.76	0.6
1189370		14.8	68.7	<0.002	2.83	7.46	33.3	1	3.7	271	0.22	0.08	1.24	0.452	0.84	0.6
1189371		6.8	74.3	<0.002	2.35	5.65	32.9	<1	1.3	407	0.23	<0.05	1.09	0.472	1.01	0.5
1189372		9.2	40.4	<0.002	3.65	7.51	34.8	<1	3.4	510	0.24	<0.05	1.42	0.504	0.75	0.5
1189373		1020	20.5	0.012	9.80	30.2	13.9	8	2.5	139.0	0.06	0.36	0.34	0.123	0.51	0.4
1189374		79.3	50.9	0.002	3.91	8.99	35.9	2	2.9	279	0.24	0.07	1.34	0.486	0.77	0.7
1189375		4.1	53.4	<0.002	0.57	4.98	36.4	<1	0.5	313	0.19	<0.05	0.92	0.348	0.60	0.5
1189376		2.4	39.7	<0.002	0.04	4.57	39.4	1	0.6	432	0.20	<0.05	1.00	0.375	0.33	0.5
1189377		1160	1.2	<0.002	>10.0	25.5	3.6	29	2.1	120.0	<0.05	1.02	0.41	0.025	1.33	0.1
1189378		1375	9.3	<0.002	7.88	13.40	19.2	7	3.7	63.0	0.10	0.19	0.61	0.185	0.82	0.4
1189379		85.7	38.6	0.002	7.84	8.73	9.2	20	2.6	141.0	0.13	3.49	0.54	0.237	0.36	0.2
1189380		6.2	41.5	0.010	1.85	4.32	21.9	2	0.5	276	0.21	0.31	1.12	0.357	0.47	0.4



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**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	Au-ICP21	Au-ICP21	Au-ICP21
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Zn % 0.001	Au ppm 0.001	Au ppm 0.05	Au ppm 0.05
2617223		235	3.1	18.1	231	23.6		0.021		
2617224		308	1.4	14.2	75	19.8		0.004		
2617225		256	1.9	19.8	112	22.3		0.015		
2617226		251	1.0	13.1	236	21.2		2.72		
2617227		410	1.1	8.3	1860	3.0		1.165		
2617228		140	3.1	7.1	102	7.7		>10.0	93.9	
2617229		277	4.0	20.2	45	29.7		0.102		
2617230		195	2.7	16.0	107	31.9		0.194		
2617231		167	1.4	11.3	1780	14.5		5.17		
2617232		251	3.5	14.9	38	29.3		0.023		
2617233		485	1.6	9.6	140	11.6		0.233		
2617234		261	62.3	15.3	35	38.7		0.036		
2617235		298	0.9	14.1	55	22.4		0.013		
2617236		267	2.6	16.3	50	20.4		0.002		
2617237		176	22.5	8.2	2270	8.3		0.044		
2617238		232	6.8	7.9	4730	14.6		0.526		
2617239		251	5.5	10.6	2940	34.1		0.120		
2617240		223	40.4	14.6	152	14.9		0.042		
2617241		213	8.6	7.6	>10000	15.1	1.660	0.225		
2617242		181	7.6	14.2	5790	13.1		0.907		
2617243		285	18.4	15.5	598	22.1		0.014		
2617244		186	32.4	10.3	42	14.3		0.294		
2617245		249	1.4	18.2	53	40.5		0.028		
2617246		185	2.3	16.7	6380	17.3		3.73		
2617247		267	5.8	20.7	60	41.3		0.105		
2617248		254	1.7	19.3	67	33.4		0.054		
2617249		172	8.0	8.3	56	10.5		0.053		
2617250		263	38.7	7.1	52	18.5		0.041		
1189369		307	1.6	24.5	61	19.9		0.023		
1189370		266	69.6	16.9	86	26.7		0.054		
1189371		260	7.5	19.6	41	26.8		0.024		
1189372		273	11.9	19.4	51	27.5		0.034		
1189373		159	1.6	8.6	607	12.2		1.620		
1189374		281	10.5	13.7	912	28.0		0.012		
1189375		250	2.1	13.3	57	24.5		0.005		
1189376		268	1.0	14.2	69	26.6		0.006		
1189377		100	1.7	7.1	8290	1.3		>10.0	19.75	
1189378		137	2.6	6.7	4900	11.2		0.118		
1189379		158	6.1	7.3	63	8.4		0.247		
1189380		197	2.8	8.9	51	11.5		0.019		



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**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
1189381		1.06	0.44	6.42	8.5	460	0.61	0.13	4.70	0.28	15.15	17.5	31	3.72	55.8	2.70
1189382		1.00	0.70	6.98	12.1	560	0.80	0.16	4.18	0.12	16.25	22.3	32	4.20	109.5	4.63
1189383		1.14	0.75	6.76	11.8	540	0.71	0.25	5.02	0.14	19.15	25.8	32	4.66	72.1	3.61
1189384		1.02	0.32	6.44	9.0	540	0.56	0.11	9.33	0.20	18.20	18.0	22	2.97	22.6	4.53
1189385		0.98	0.75	7.21	19.7	890	0.75	0.18	6.50	0.16	19.30	27.0	26	3.95	105.5	5.25
1189386		0.96	1.17	6.61	20.1	510	0.71	0.94	4.64	0.48	10.70	17.8	13	4.09	104.0	7.23
1189387		0.66	7.68	5.00	116.5	100	0.33	1.46	8.20	0.44	7.81	59.2	16	2.28	457	17.05
1189388		1.04	1.28	7.56	39.4	930	1.09	0.58	7.38	0.28	16.65	26.7	8	5.20	263	5.36
1189389		0.94	0.35	8.14	21.6	970	0.96	0.35	6.11	0.20	35.3	20.6	8	2.79	166.0	4.51
1189390		1.32	0.39	7.58	12.9	880	0.89	0.09	5.98	0.13	16.90	21.0	26	4.12	53.4	6.13
1189391		0.84	1.86	3.00	142.5	80	0.21	2.38	6.58	0.23	3.31	21.9	26	0.97	55.5	11.30
1189392		0.92	0.44	6.64	6.9	1550	0.59	0.08	6.00	1.36	12.90	22.1	35	3.00	83.0	5.84
1189393		1.02	0.50	7.57	1.5	3550	0.59	0.05	3.94	0.61	19.70	17.5	47	2.20	260	6.34
1189394		1.04	0.20	7.26	6.1	1130	0.63	0.37	3.97	0.64	31.5	36.4	53	1.73	156.5	7.39
1189395		1.24	0.30	7.61	5.7	540	0.77	0.54	5.05	2.54	24.6	45.2	59	1.58	224	8.48
1189396		1.08	0.46	6.56	16.2	1020	0.58	0.88	4.52	1.72	55.6	63.4	50	1.46	249	11.30
1189397		0.98	0.62	6.67	8.5	1500	0.52	0.98	3.75	2.04	53.6	74.0	51	1.27	432	13.65
1189398		0.90	0.67	6.03	10.4	450	0.45	0.97	3.01	3.50	15.50	79.9	53	1.25	390	13.90
1189399		1.06	0.51	7.20	5.9	760	0.52	0.67	2.99	1.98	23.1	51.0	54	2.24	474	10.95
1189400		1.20	0.27	7.53	4.4	920	0.46	0.37	2.96	0.52	24.3	38.6	58	1.57	168.0	7.91
2617151		1.54	0.17	7.29	3.4	1310	0.69	0.30	5.51	0.40	12.10	35.0	47	3.43	159.5	7.45
2617152		1.16	0.24	7.52	4.6	1560	0.67	0.40	5.15	0.34	16.30	32.6	39	2.84	138.5	7.15
2617153		1.78	0.22	7.46	4.4	1630	0.76	0.30	5.32	0.28	15.70	34.4	51	1.80	164.0	7.91
2617154		1.54	0.17	7.08	3.9	2710	0.70	0.10	5.01	0.25	28.0	16.3	54	2.23	21.5	6.66
2617155		1.46	0.13	7.01	6.0	1860	0.66	0.14	5.17	0.21	21.2	26.6	53	1.83	65.0	7.04
2617156		1.18	0.27	6.64	8.2	2020	0.64	0.13	6.63	0.15	15.85	15.5	50	2.25	37.3	5.70
2617157		1.36	3.42	5.79	25.7	530	0.45	1.06	3.89	4.01	4.75	107.0	38	1.16	747	14.35
2617158		0.54	3.69	5.77	14.2	340	0.94	2.68	6.92	18.20	21.3	21.4	45	5.87	682	8.55
2617159		0.90	1.97	6.42	51.9	420	0.54	1.73	1.88	11.95	10.30	33.8	55	7.27	261	12.10
2617160		1.08	0.19	7.24	29.4	380	0.60	0.21	4.76	0.56	8.50	14.3	58	1.16	36.2	6.48
2617161		1.52	0.25	7.29	5.4	270	0.67	0.28	4.96	2.06	21.3	13.8	57	1.02	29.5	6.06
2617162		0.52	15.20	5.26	27.6	230	0.38	5.44	5.42	47.6	9.14	42.5	40	4.74	2920	13.35
2617163		1.70	0.16	7.00	3.5	1530	0.71	0.22	5.55	1.51	16.55	8.7	53	1.19	22.8	5.32
2617164		1.22	1.52	6.25	35.9	650	0.61	1.09	5.29	6.77	10.85	30.8	47	3.35	263	7.83
2617165		1.62	0.82	7.16	25.1	1580	0.63	0.54	4.85	0.61	19.35	30.5	50	3.32	156.0	7.35



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**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
1189381		11.85	0.09	0.5	0.008	0.044	1.61	7.0	18.0	1.08	722	0.92	2.08	4.1	10.0	1280
1189382		16.45	0.08	0.7	<0.005	0.060	1.68	7.0	28.3	1.83	821	0.90	2.04	5.4	13.2	1430
1189383		13.45	0.09	0.7	0.007	0.054	1.84	9.5	23.2	1.45	818	1.23	1.76	5.2	11.3	1410
1189384		12.30	0.08	0.7	0.007	0.061	1.50	9.0	23.6	1.81	1300	1.18	1.50	4.0	8.8	1200
1189385		15.25	0.08	0.7	0.011	0.076	2.26	9.8	26.1	1.96	1160	2.29	0.81	4.7	11.4	1460
1189386		12.45	0.08	0.6	0.007	0.386	1.90	3.6	43.9	2.53	3010	2.08	0.04	3.6	15.3	1250
1189387		11.40	0.09	0.2	0.037	0.265	0.36	3.6	48.1	2.68	4100	1.17	0.01	1.5	2.9	1720
1189388		16.25	0.10	0.8	0.008	0.181	2.80	8.3	34.6	1.90	1160	5.27	0.95	4.0	10.8	1410
1189389		15.15	0.13	0.9	<0.005	0.165	1.55	22.7	26.9	2.05	927	0.46	3.35	4.4	13.6	1540
1189390		14.35	0.11	0.5	<0.005	0.095	2.35	8.9	34.5	2.71	1040	0.98	0.51	3.8	13.6	1380
1189391		7.20	0.06	0.1	0.043	0.319	0.18	1.5	35.0	2.54	2850	1.17	0.01	0.2	8.7	680
1189392		13.30	0.08	0.7	0.012	0.061	2.44	6.6	39.5	2.39	996	0.93	0.92	3.5	13.6	1180
1189393		12.40	0.12	1.0	<0.005	0.071	4.71	11.0	17.5	2.53	856	0.23	1.76	4.6	14.2	1450
1189394		11.40	0.14	0.9	<0.005	0.036	3.76	17.5	9.0	2.62	602	0.43	2.27	4.5	12.8	1610
1189395		13.70	0.10	1.0	0.010	0.049	4.34	12.8	13.7	2.27	613	0.63	1.58	4.4	16.7	1550
1189396		12.25	0.12	1.0	<0.005	0.076	3.18	36.4	15.7	2.81	655	1.78	1.60	3.7	23.9	1300
1189397		12.05	0.13	0.9	0.006	0.077	3.02	35.9	13.7	2.40	622	3.26	1.79	4.2	26.8	1550
1189398		10.15	0.10	0.8	0.012	0.042	5.01	7.8	12.0	1.90	445	2.18	0.85	3.9	24.3	1380
1189399		11.35	0.13	0.8	0.007	0.047	5.42	11.4	14.5	1.92	473	1.69	1.14	4.3	19.3	1500
1189400		11.95	0.13	0.9	<0.005	0.048	5.82	13.0	18.1	2.59	657	0.94	1.22	4.6	12.6	1610
2617151		13.25	0.11	1.1	<0.005	0.068	3.09	5.5	8.3	3.24	513	1.81	2.02	4.2	18.2	1560
2617152		13.35	0.12	1.1	<0.005	0.067	3.45	8.2	15.3	3.03	572	0.69	1.82	4.3	14.7	1600
2617153		13.55	0.10	1.0	<0.005	0.063	1.70	8.5	17.8	3.57	616	1.20	2.84	4.4	20.0	1700
2617154		13.20	0.11	0.9	<0.005	0.097	2.98	16.0	11.9	3.14	822	0.49	2.34	4.9	18.0	1620
2617155		14.70	0.10	1.1	<0.005	0.078	2.37	11.4	17.2	3.05	632	2.26	2.02	4.7	17.5	1600
2617156		12.80	0.11	0.9	<0.005	0.105	2.14	8.1	23.2	2.78	815	0.25	2.29	4.6	16.5	1550
2617157		13.65	0.07	0.9	0.044	0.215	1.21	2.2	19.4	2.76	977	0.44	2.15	3.8	120.0	1350
2617158		15.45	0.06	0.7	0.065	0.258	1.20	11.7	51.5	2.39	1960	1.10	0.57	3.8	13.8	1370
2617159		13.70	0.05	0.8	0.041	0.163	1.21	5.5	69.7	3.17	2910	5.35	0.12	3.9	13.8	1500
2617160		12.80	0.08	1.1	<0.005	0.166	0.49	4.3	18.2	3.25	997	0.63	3.92	4.9	19.2	1700
2617161		12.85	0.10	1.0	0.008	0.164	0.36	12.5	21.8	3.14	948	0.24	3.87	4.8	15.7	1670
2617162		12.95	<0.05	0.6	0.143	0.907	0.67	4.9	65.6	2.99	2630	1.15	0.20	3.5	15.3	1380
2617163		13.00	0.06	1.1	<0.005	0.132	1.44	8.9	20.0	3.17	829	0.35	3.24	4.8	11.5	1640
2617164		13.45	0.05	0.9	0.021	0.141	1.13	4.8	41.5	3.42	1360	0.74	1.58	4.2	14.6	1370
2617165		13.25	0.09	1.0	0.008	0.071	2.62	9.7	48.6	2.94	1260	2.57	1.42	4.9	16.1	1660



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 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 5-OCT-2018  
 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
1189381		9.1	55.7	<0.002	0.38	3.32	24.3	1	0.7	453	0.22	<0.05	0.98	0.409	0.50	0.4
1189382		5.9	38.0	<0.002	0.37	4.06	27.4	1	0.9	434	0.28	0.05	0.99	0.460	0.55	0.4
1189383		8.7	68.1	<0.002	0.68	5.54	25.4	1	1.1	435	0.28	0.05	1.25	0.434	0.62	0.5
1189384		5.1	51.0	<0.002	0.45	2.58	21.3	1	0.8	712	0.22	<0.05	1.07	0.352	0.48	0.4
1189385		8.1	69.3	0.002	0.82	4.94	24.1	1	1.0	463	0.25	0.05	1.14	0.417	0.72	0.5
1189386		56.9	87.3	0.004	1.27	8.33	24.3	3	13.3	254	0.19	0.05	1.21	0.461	1.11	0.3
1189387		375	16.8	0.002	9.50	67.2	20.8	10	7.2	173.0	0.08	0.07	0.62	0.152	0.35	0.2
1189388		76.4	90.4	0.002	2.02	4.16	30.0	5	3.0	442	0.24	0.07	0.88	0.528	0.74	0.4
1189389		20.4	44.8	<0.002	0.82	2.99	31.7	2	2.6	786	0.26	0.07	1.14	0.592	0.34	0.5
1189390		9.2	87.5	0.028	0.68	4.17	33.8	2	1.3	610	0.21	0.05	1.19	0.490	0.80	0.5
1189391		59.7	5.3	<0.002	7.29	6.74	50.9	4	6.3	532	<0.05	0.12	0.38	0.029	0.09	0.1
1189392		8.1	73.8	0.002	0.38	3.65	31.0	<1	0.8	420	0.19	<0.05	1.19	0.370	0.70	0.5
1189393		5.2	94.1	<0.002	0.09	2.26	37.0	<1	1.3	374	0.26	<0.05	1.38	0.466	1.05	0.5
1189394		4.6	51.9	0.002	2.47	3.39	41.8	1	2.1	452	0.30	0.07	1.14	0.460	0.64	0.7
1189395		13.5	56.2	0.002	2.89	4.15	42.1	1	2.2	350	0.25	0.10	1.12	0.451	0.71	0.7
1189396		17.0	46.9	0.005	5.46	9.55	42.8	1	2.3	361	0.24	0.25	1.29	0.422	0.63	0.9
1189397		30.8	43.9	0.009	7.18	8.00	42.1	2	2.5	479	0.23	0.18	1.26	0.452	0.54	0.9
1189398		47.7	52.2	0.004	7.91	7.74	38.9	2	2.1	252	0.22	0.22	0.82	0.417	0.86	0.7
1189399		29.6	70.0	0.007	5.72	4.83	42.6	1	2.3	349	0.24	0.11	1.00	0.447	0.89	0.8
1189400		13.8	65.1	0.005	2.31	4.03	44.4	1	2.1	307	0.25	0.07	1.19	0.468	0.91	0.8
2617151		5.4	54.2	0.003	2.18	3.89	39.6	1	1.5	467	0.23	0.05	1.19	0.418	0.50	0.7
2617152		6.1	60.8	0.002	2.04	5.92	37.9	1	1.3	525	0.24	<0.05	1.24	0.420	0.63	0.7
2617153		7.9	25.6	0.003	2.20	4.90	39.6	1	1.5	522	0.24	<0.05	1.24	0.420	0.31	0.7
2617154		5.0	41.2	<0.002	0.20	5.03	36.0	1	1.6	501	0.27	0.05	1.31	0.409	0.49	0.7
2617155		4.6	37.8	0.003	0.66	8.24	37.1	1	1.3	707	0.27	<0.05	1.43	0.400	0.39	0.8
2617156		10.0	36.6	<0.002	0.55	3.85	35.2	1	3.5	424	0.25	<0.05	1.29	0.391	0.38	0.6
2617157		41.8	20.3	<0.002	9.17	23.2	31.2	9	1.8	385	0.22	0.32	0.91	0.325	0.93	0.5
2617158		382	43.2	0.002	1.67	2.48	30.5	2	4.5	271	0.21	0.07	1.38	0.327	0.44	0.7
2617159		88.8	44.2	0.011	1.69	4.52	35.0	3	4.4	37.7	0.21	0.12	1.29	0.345	0.64	0.9
2617160		6.7	9.5	<0.002	0.55	4.66	40.2	1	5.2	419	0.27	<0.05	1.22	0.424	0.14	0.6
2617161		11.5	8.3	<0.002	0.59	3.49	39.3	1	5.6	500	0.26	<0.05	1.40	0.415	0.11	0.7
2617162		296	25.2	0.003	4.66	3.01	29.2	5	5.9	225	0.19	1.32	0.85	0.286	0.42	0.6
2617163		12.4	27.1	<0.002	0.29	3.08	37.4	1	3.6	556	0.26	0.10	1.60	0.407	0.45	0.8
2617164		62.5	39.2	<0.002	2.25	5.01	35.0	2	4.1	306	0.23	0.28	1.15	0.363	0.61	0.7
2617165		14.9	51.6	0.011	2.11	11.45	38.5	2	1.8	238	0.26	<0.05	1.23	0.430	1.17	0.7



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	Au-ICP21	Au-ICP21
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Au ppm	Au ppm
		1	0.1	0.1	2	0.5	0.001	0.001	0.05
1189381		206	4.1	15.1	36	13.8		0.002	
1189382		240	4.5	14.8	36	17.5		0.002	
1189383		211	3.7	14.6	28	18.5		0.002	
1189384		196	2.6	17.0	32	23.5		0.002	
1189385		237	4.5	15.7	39	19.8		0.005	
1189386		240	3.4	14.3	115	33.5		0.003	
1189387		293	2.1	7.9	124	6.3		0.051	
1189388		250	6.2	18.7	96	17.3		0.013	
1189389		257	2.2	22.5	118	17.3		0.038	
1189390		258	3.8	16.2	57	13.2		0.003	
1189391		310	0.6	5.7	65	1.3		0.056	
1189392		261	4.1	13.4	137	14.3		0.016	
1189393		234	0.9	16.3	60	21.8		0.005	
1189394		305	0.8	17.9	63	19.6		0.003	
1189395		279	0.9	17.9	175	20.1		0.004	
1189396		339	0.8	17.5	116	25.3		0.016	
1189397		314	0.9	19.8	129	20.8		0.015	
1189398		265	0.7	15.0	191	15.5		0.022	
1189399		294	0.8	16.7	122	15.9		0.007	
1189400		318	0.8	17.4	65	18.3		0.001	
2617151		280	0.9	14.9	38	29.6		<0.001	
2617152		280	0.7	15.5	45	30.4		0.005	
2617153		294	0.8	15.4	43	25.7		<0.001	
2617154		284	0.9	15.0	45	22.3		<0.001	
2617155		282	0.8	14.9	43	32.9		<0.001	
2617156		268	1.2	14.3	42	28.6		0.002	
2617157		237	0.5	10.9	221	29.3		0.083	
2617158		237	1.5	11.2	1220	19.5		0.005	
2617159		260	3.0	10.2	922	21.8		0.027	
2617160		289	0.7	16.0	81	26.8		0.015	
2617161		288	0.7	16.1	170	23.5		0.214	
2617162		231	2.6	10.9	3040	17.3		0.506	
2617163		299	0.7	15.9	115	30.4		0.006	
2617164		266	0.9	13.6	477	31.6		0.006	
2617165		288	2.7	16.0	78	30.4		0.003	



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Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239295**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

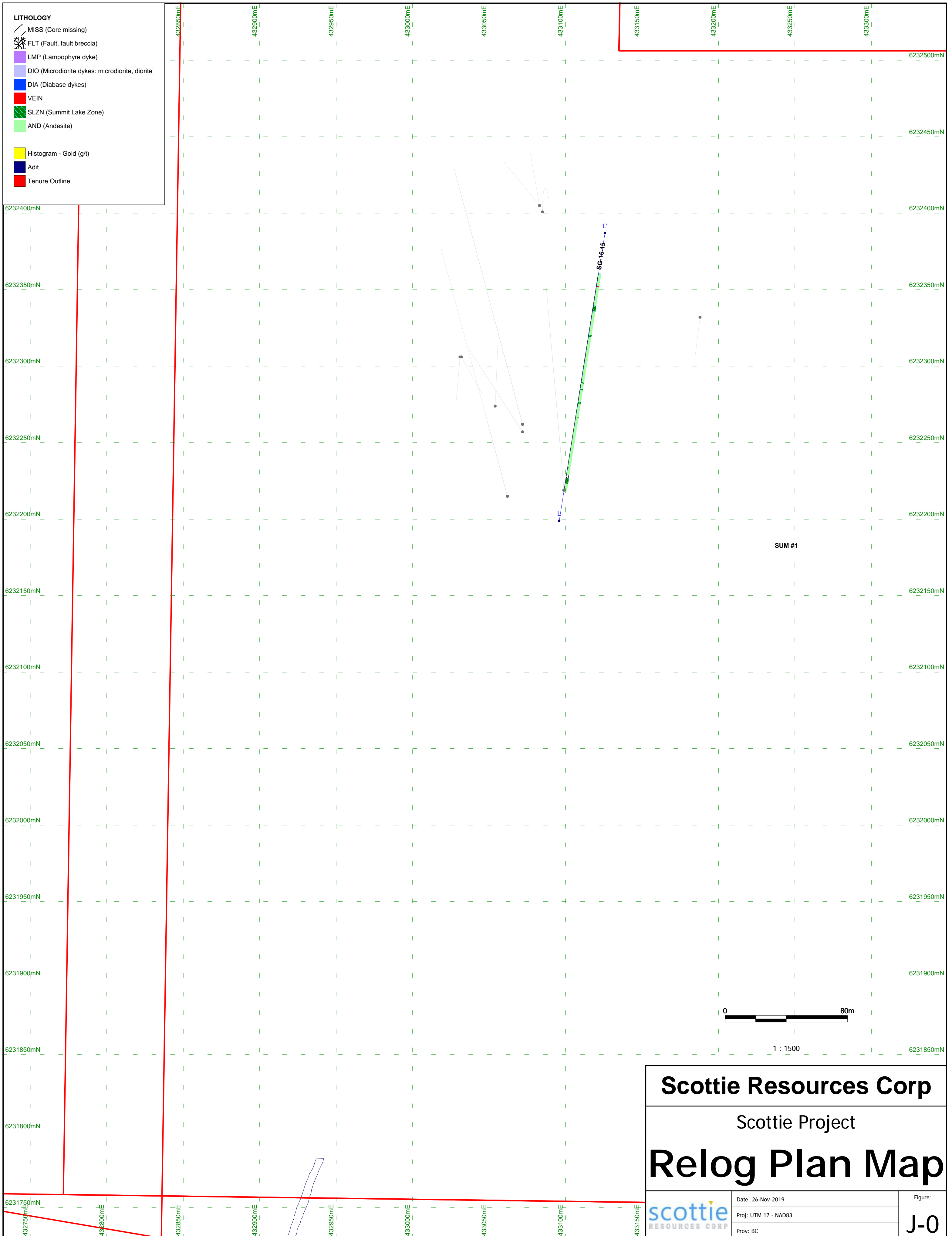
#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

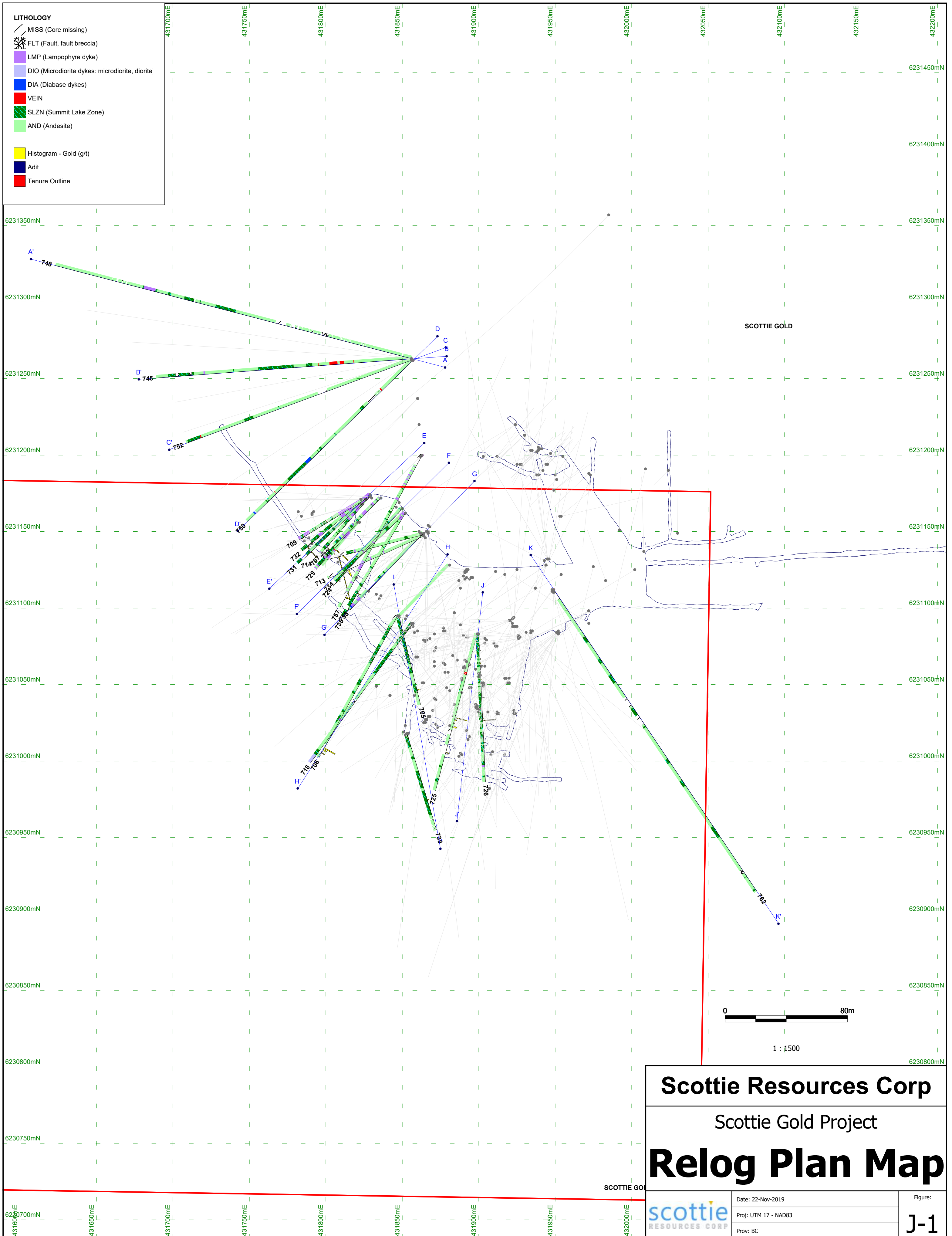
Au-GRA21	Au-ICP21	CRU-31	CRU-QC
Hg-MS42	LOG-21	ME-MS61	ME-OG62
PUL-31	PUL-QC	SPL-21	WEI-21
Zn-OG62			

**Appendix J: Relog Program Drill Sections**





<b>Scottie Resources Corp</b>	
Scottie Project	
<b>Re-log Plan Map</b>	
<p>scottie RESOURCES CORP</p> <p>Date: 26-Nov-2019          Proj: UTM 17 - NAD83          Prov: BC</p>	<p>Figure: <b>J-0</b></p>













**Scottie Resources Corp**

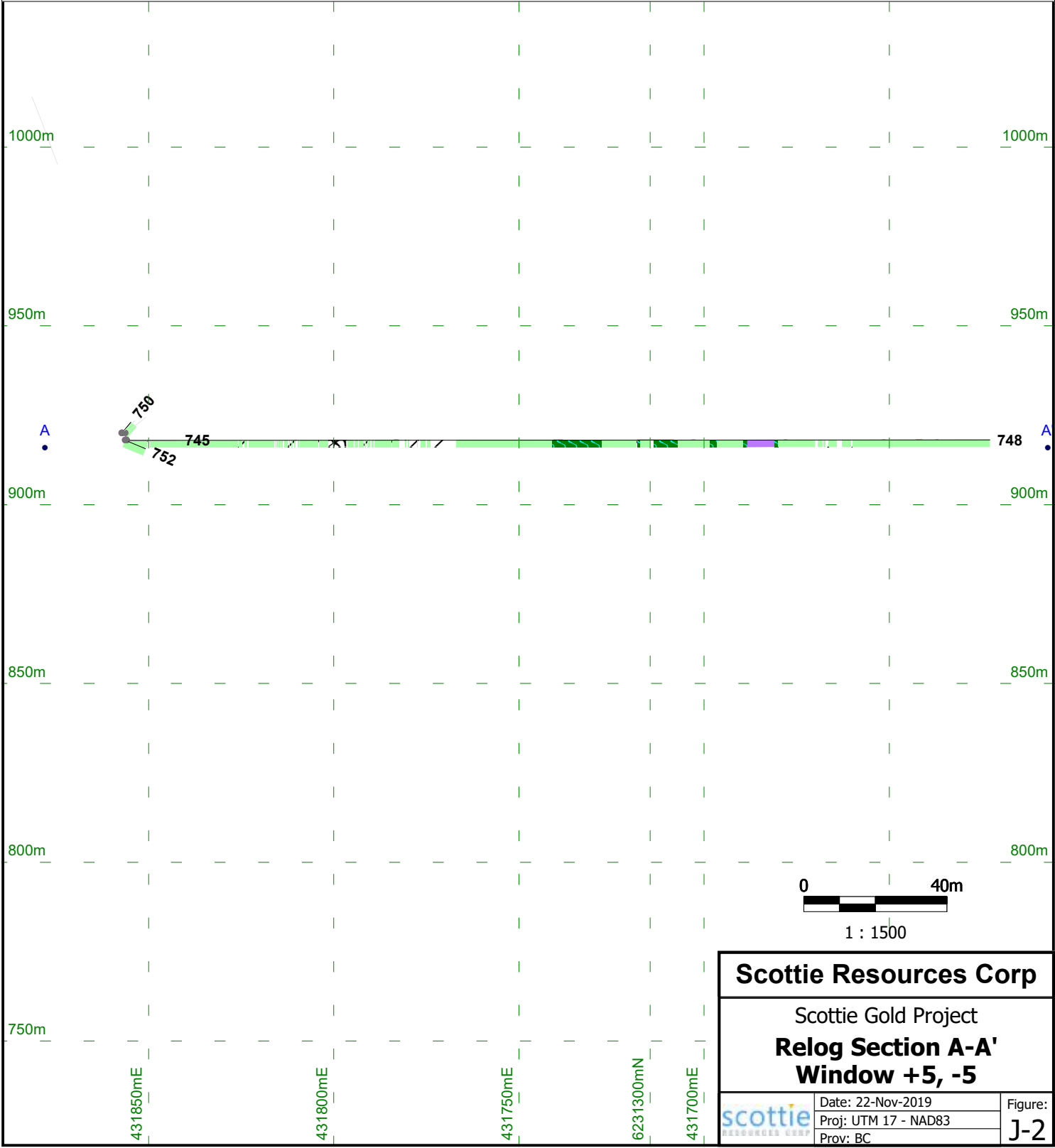
Scottie Gold Project


# Relog Plan Map

	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	J-1
	Prov: BC	











**LITHOLOGY**

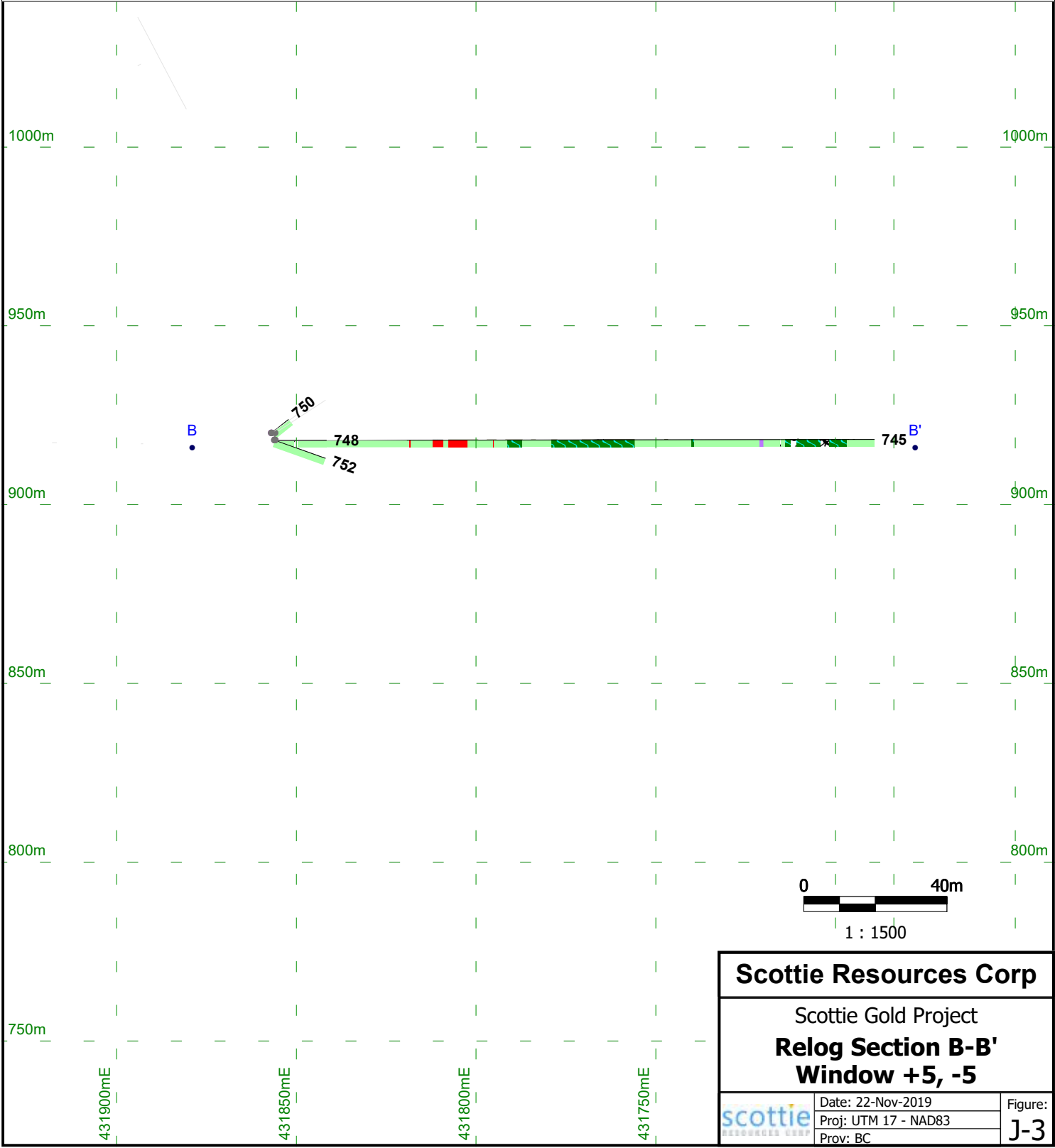
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-  FLT (Fault, fault breccia)
-  LMP (Lampophyre dyke)
-  DIO (Microdiorite dykes: microdiorite, diorite)
-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit




<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section A-A'</b>		
<b>Window +5, -5</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	<b>J-2</b>
	Prov: BC	











**LITHOLOGY**

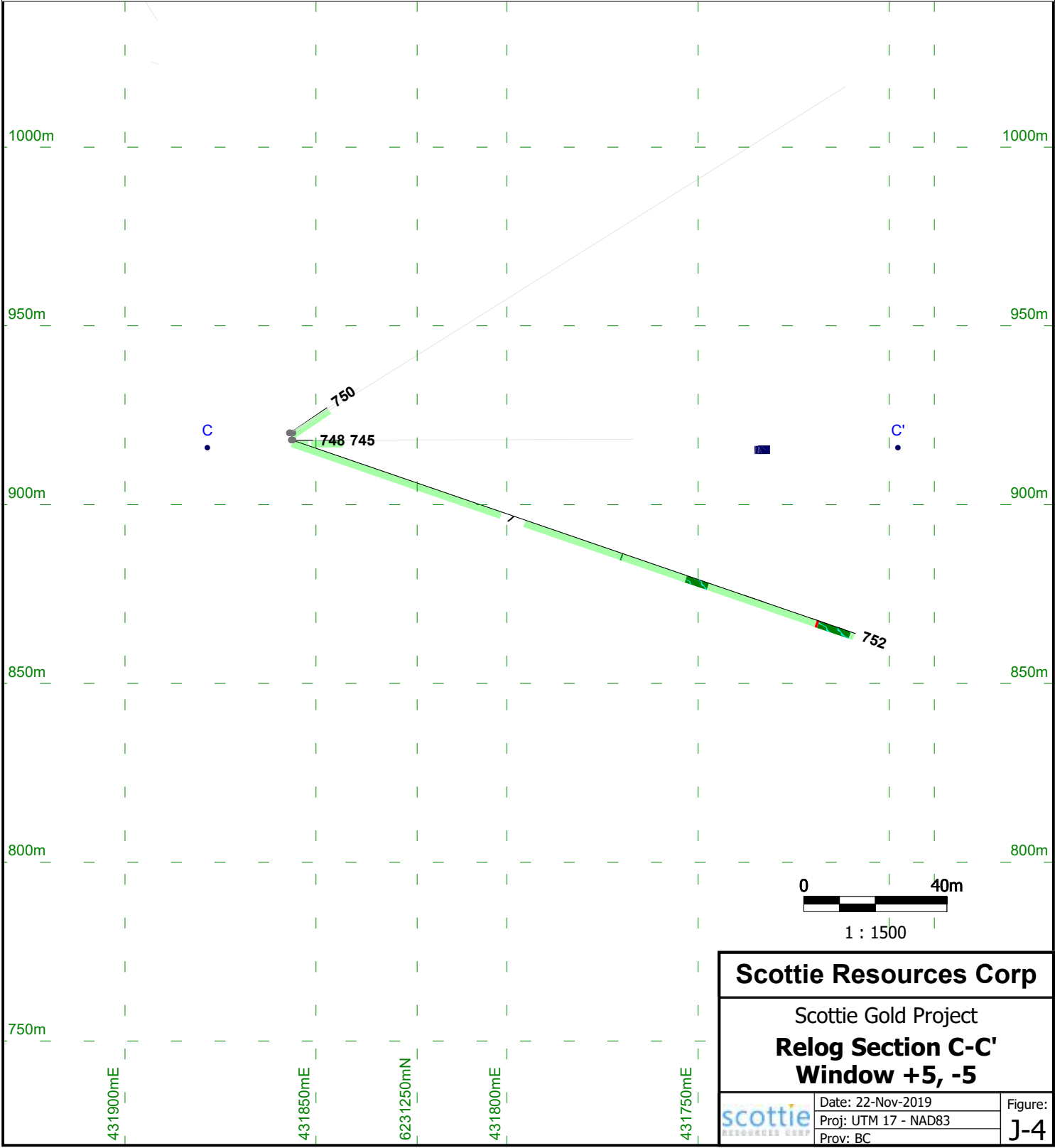
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-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section B-B'</b>		
<b>Window +5, -5</b>		
	Date: 22-Nov-2019 Proj: UTM 17 - NAD83 Prov: BC	Figure: <b>J-3</b>











**LITHOLOGY**

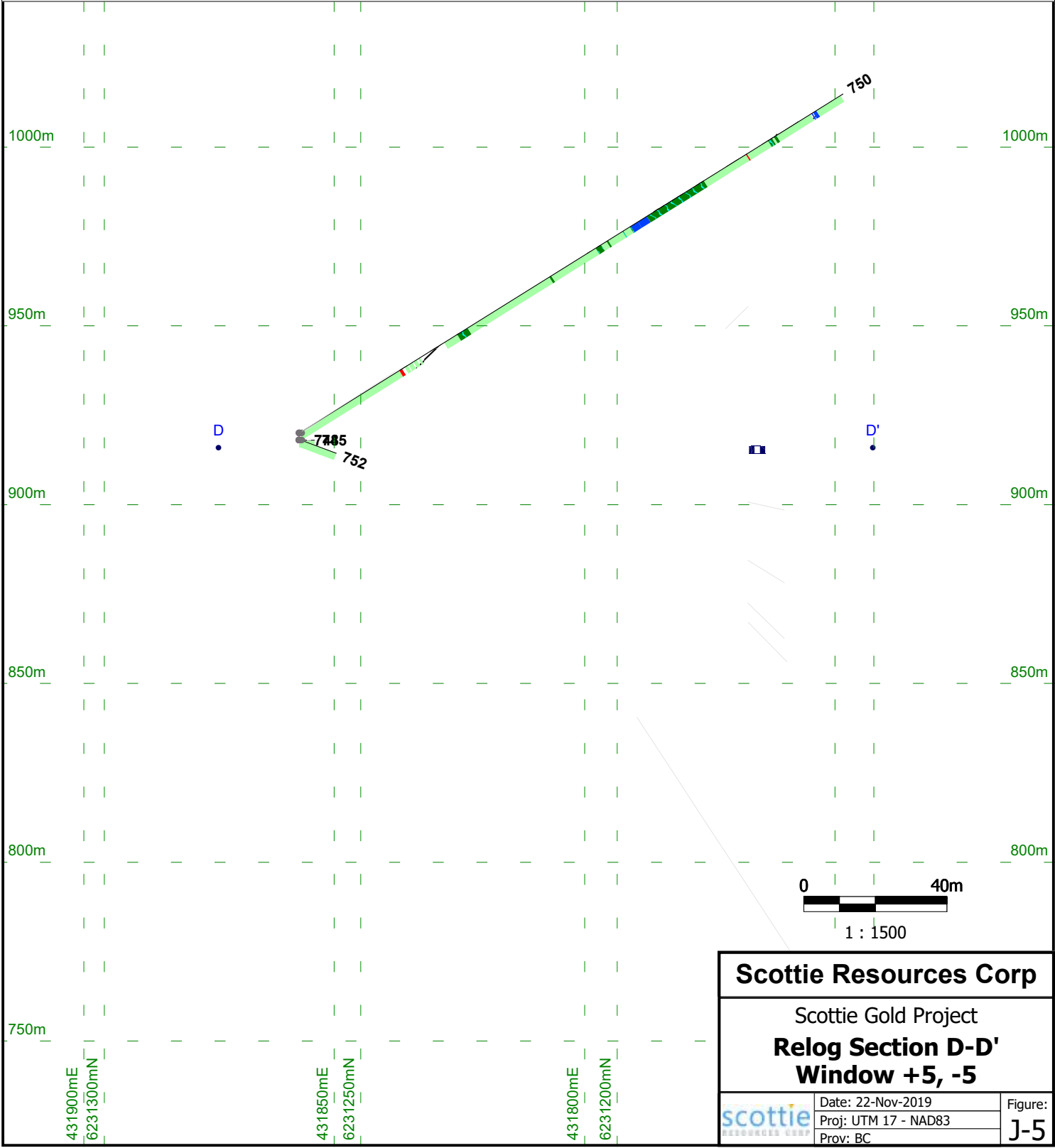
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-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section C-C'</b>		
<b>Window +5, -5</b>		
	Date: 22-Nov-2019 Proj: UTM 17 - NAD83 Prov: BC	Figure: <b>J-4</b>

**LITHOLOGY**

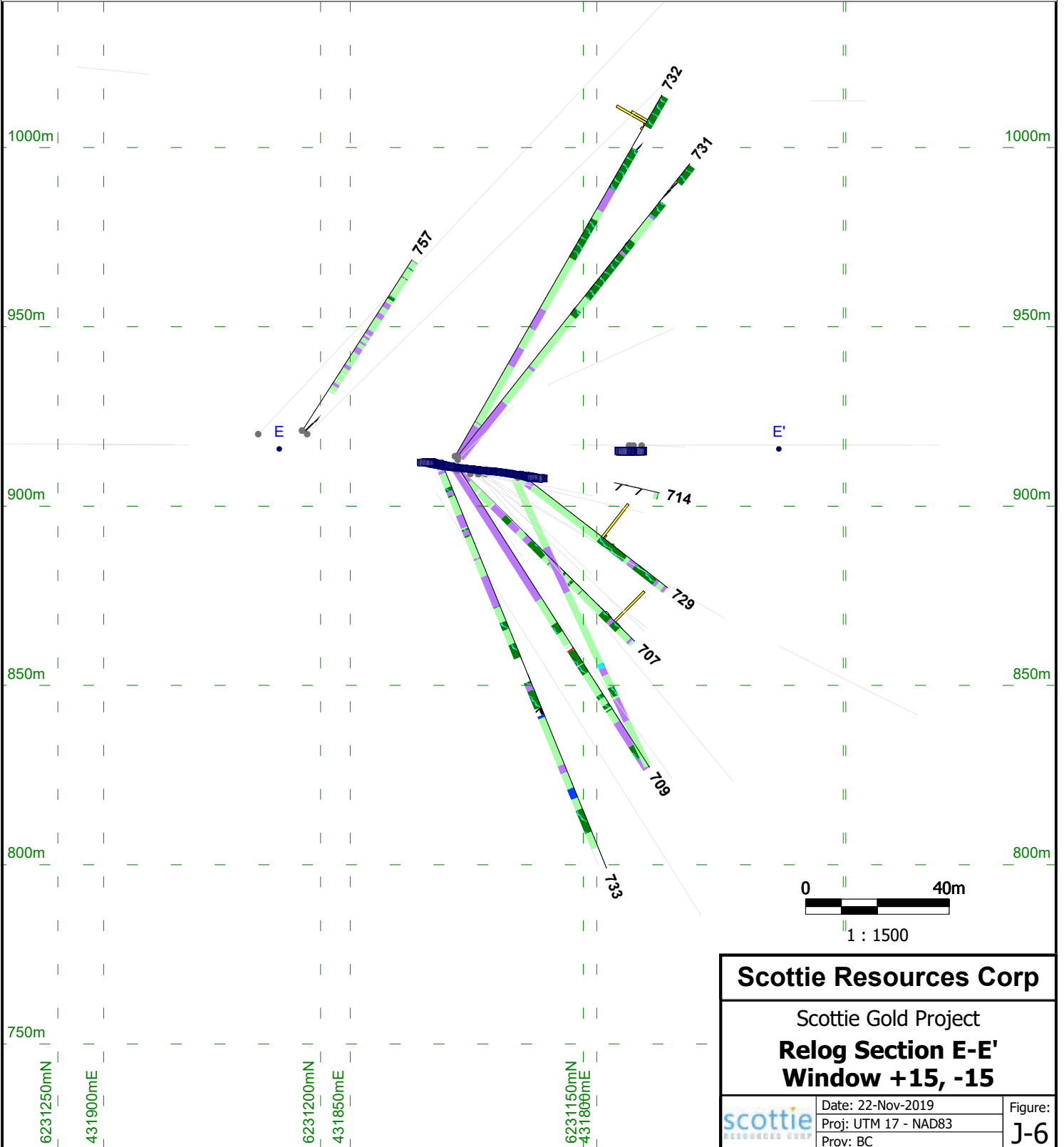
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-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit













<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section D-D'</b>		
<b>Window +5, -5</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	<b>J-5</b>
	Prov: BC	

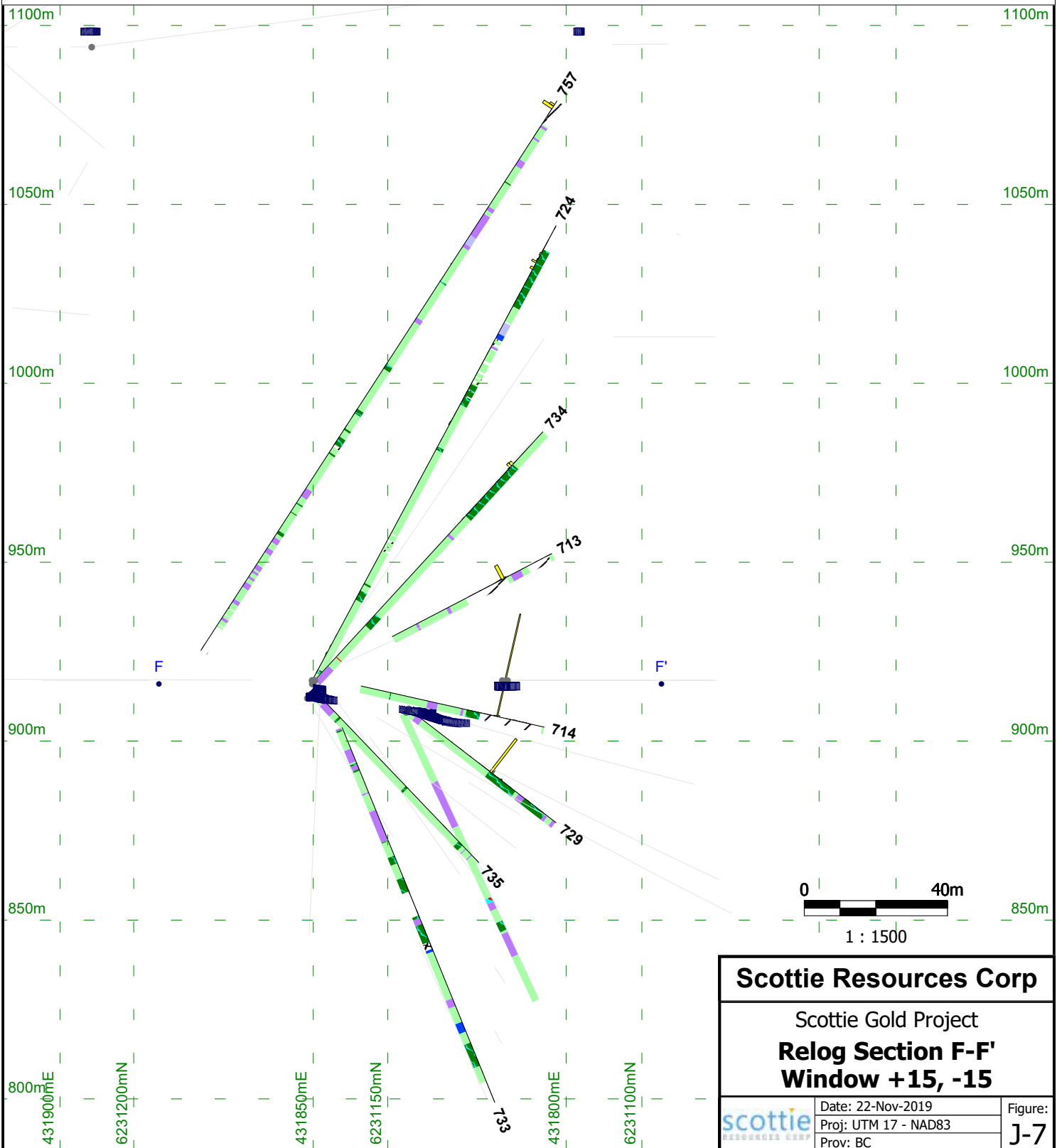
**LITHOLOGY**


- MISS (Core missing)
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- DIO (Microdiorite dykes: microdiorite, diorite)
- DIA (Diabase dykes)
- VEIN
- SLZN (Summit Lake Zone)
- AND (Andesite)
- Histogram - Gold (g/t)
- Adit



**LITHOLOGY**











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-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit

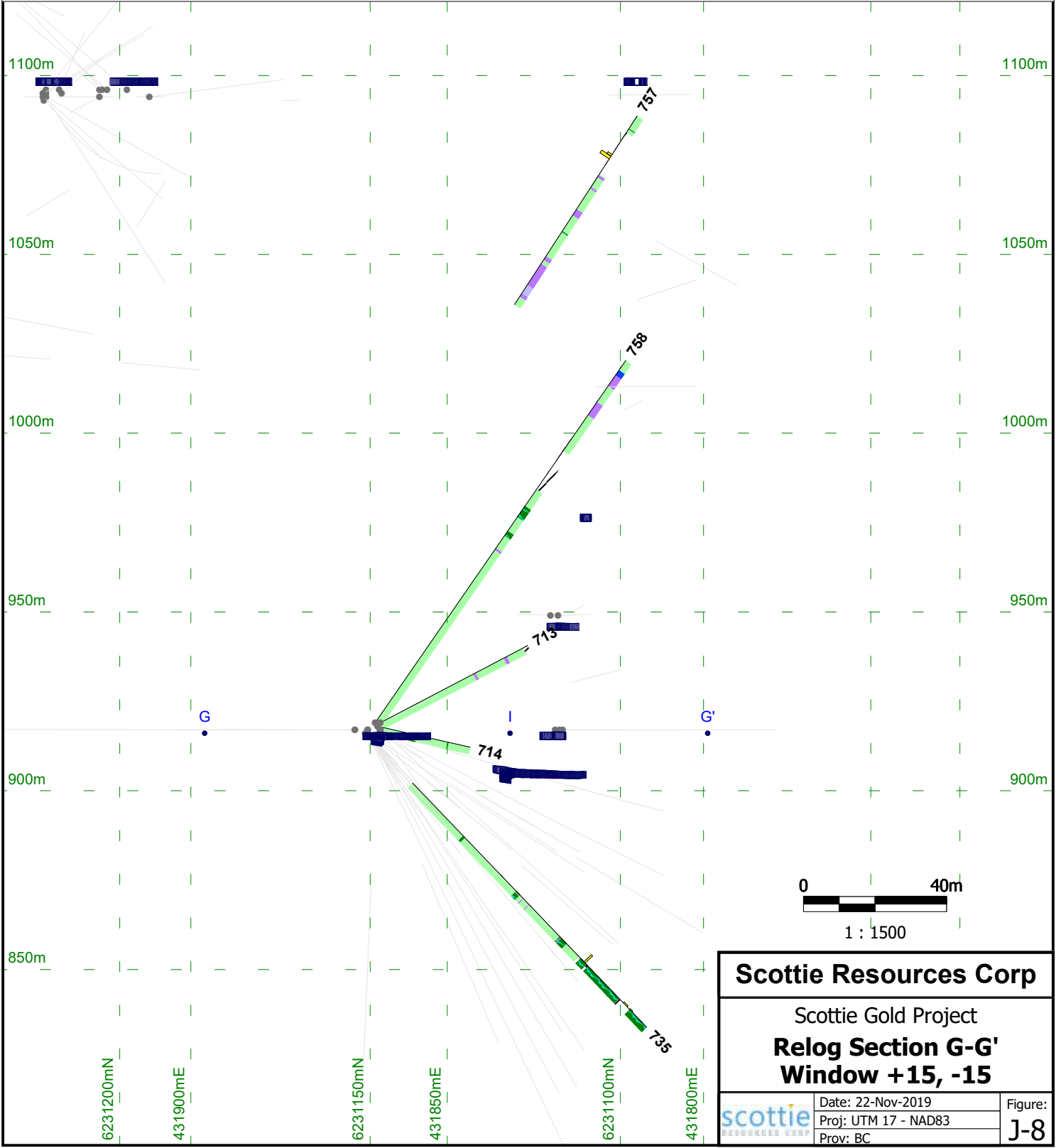



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section F-F' Window +15, -15</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	J-7
	Prov: BC	



**LITHOLOGY**

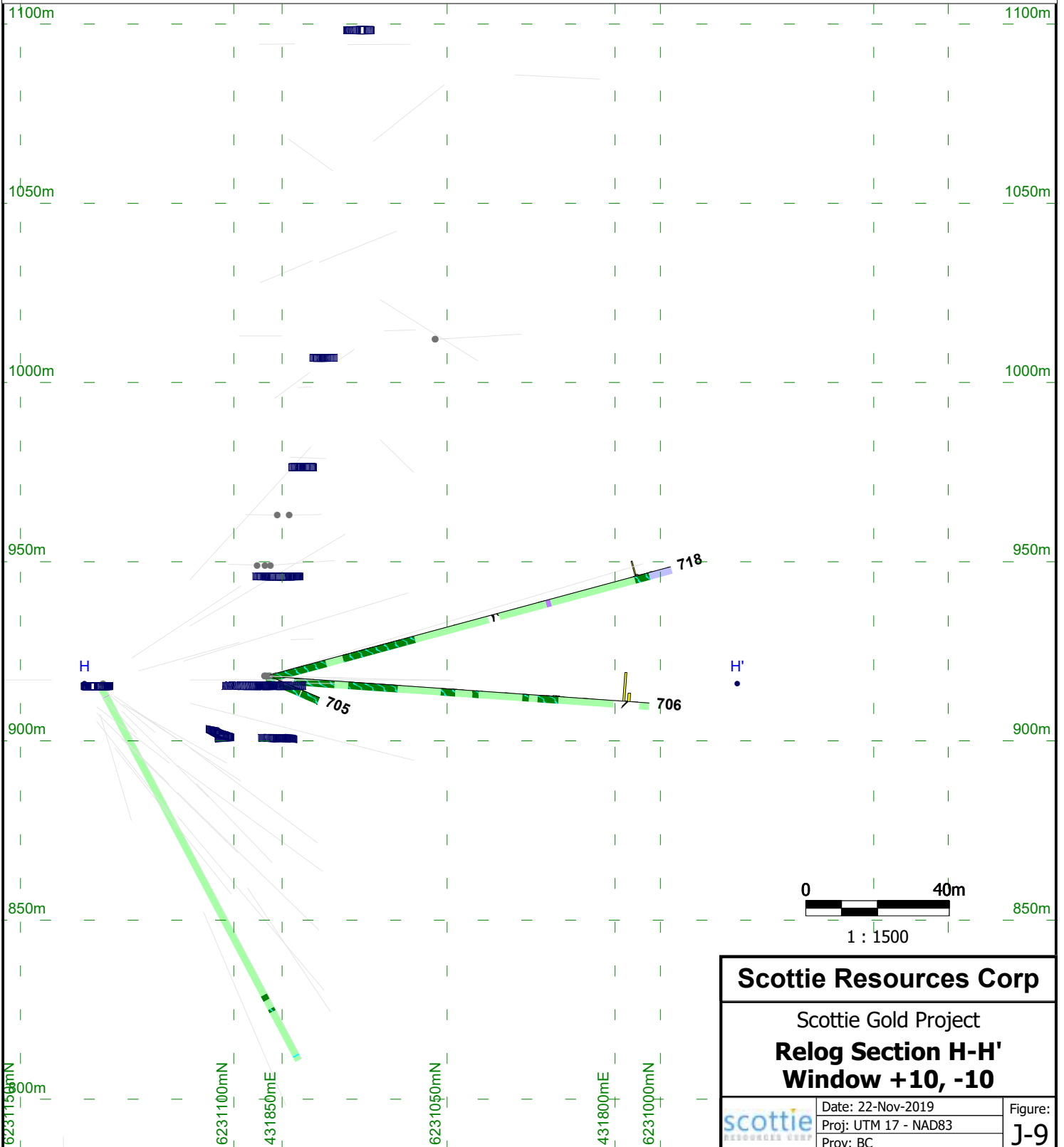
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-  DIO (Microdiorite dykes: microdiorite, diorite)
-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
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-  Histogram - Gold (g/t)
-  Adit



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section G-G' Window +15, -15</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	J-8
	Prov: BC	

**LITHOLOGY**

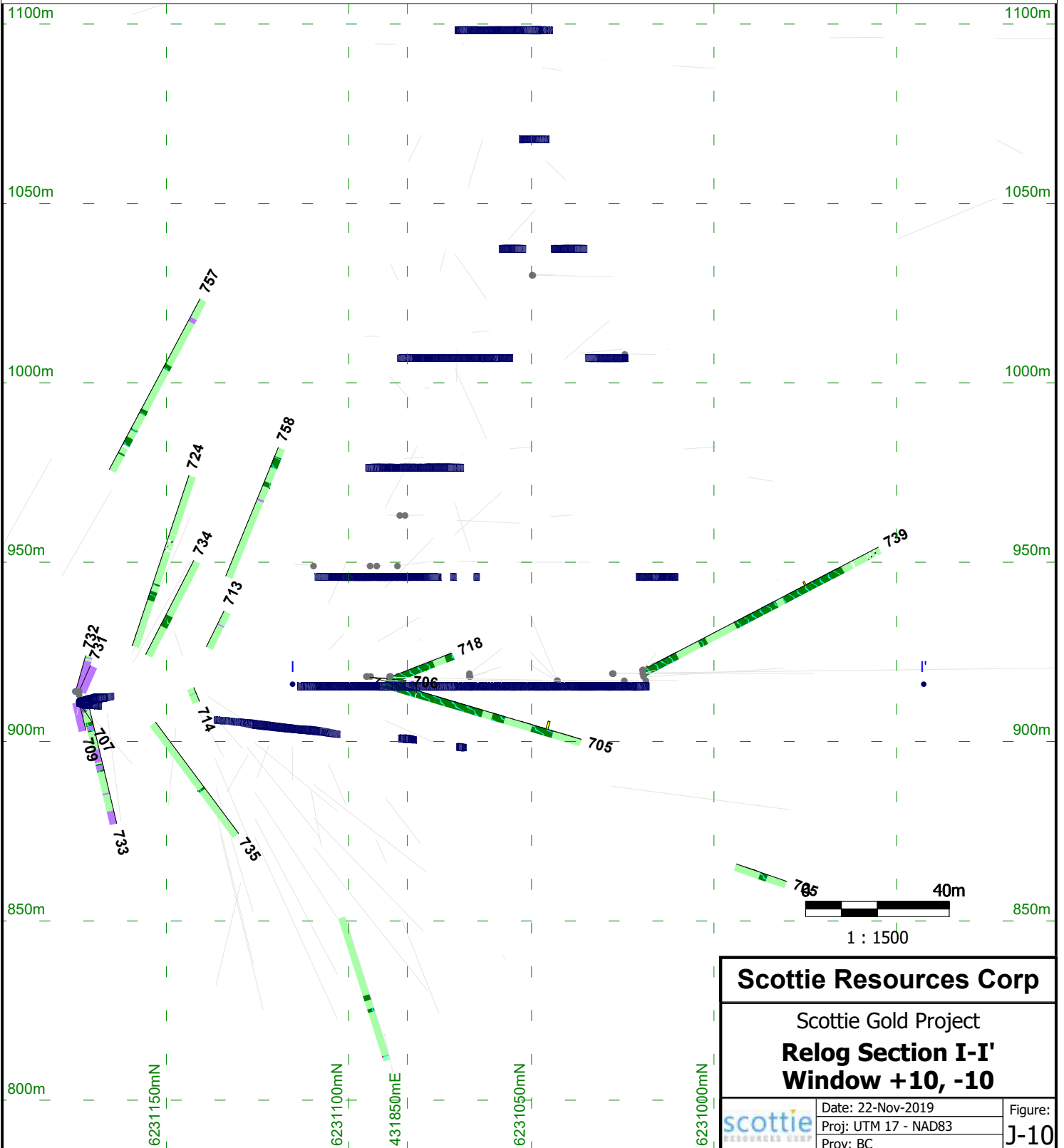
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- FLT (Fault, fault breccia)
- LMP (Lampophyre dyke)
- DIO (Microdiorite dykes: microdiorite, diorite)
- DIA (Diabase dykes)
- VEIN
- SLZN (Summit Lake Zone)
- AND (Andesite)
- Histogram - Gold (g/t)
- Adit



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section H-H'</b>		
<b>Window +10, -10</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	<b>J-9</b>
	Prov: BC	











**LITHOLOGY**

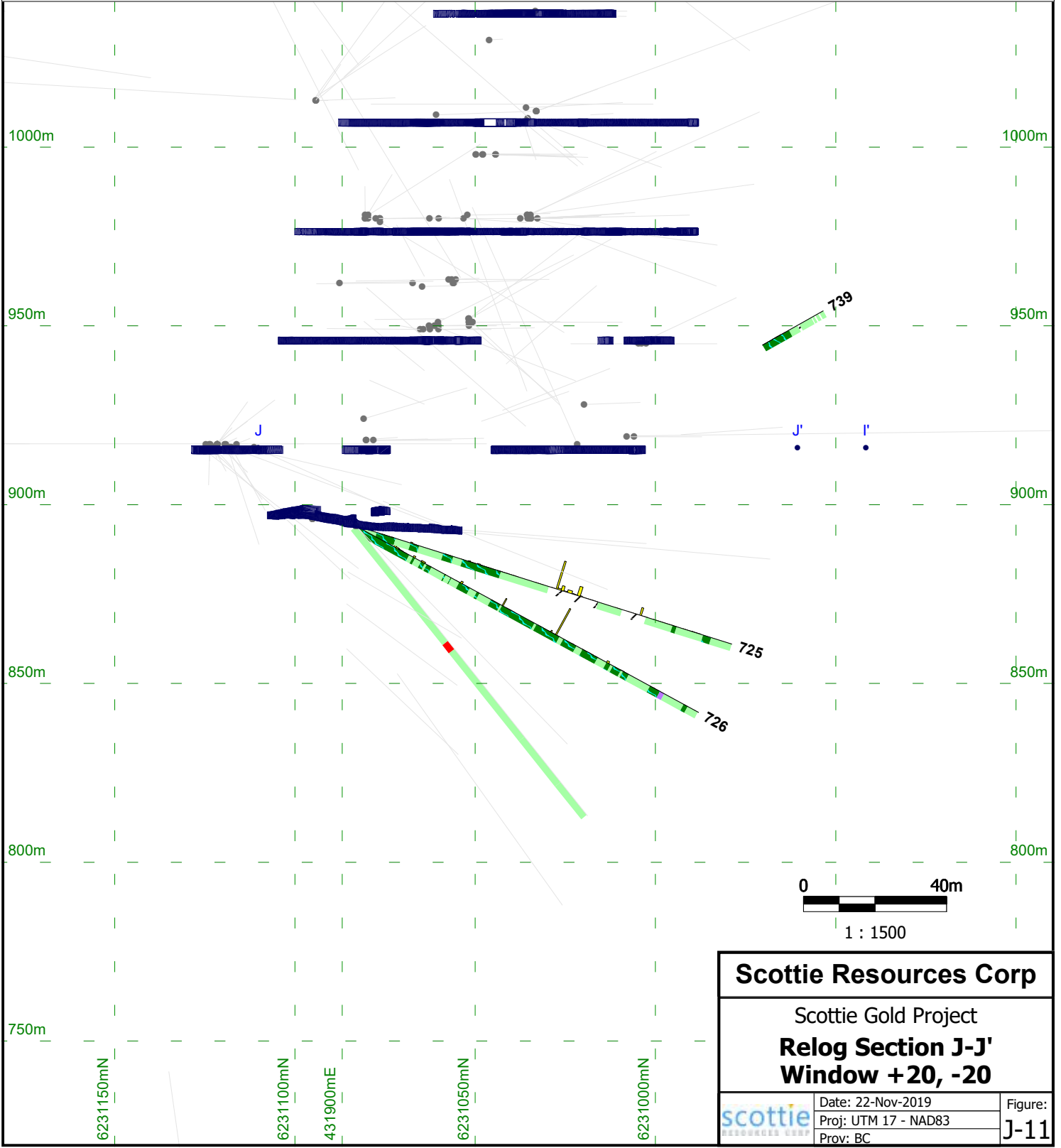
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- FLT (Fault, fault breccia)
- LMP (Lampophyre dyke)
- DIO (Microdiorite dykes: microdiorite, diorite)
- DIA (Diabase dykes)
- VEIN
- SLZN (Summit Lake Zone)
- AND (Andesite)
- Histogram - Gold (g/t)
- Adit




<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section I-I'</b>		
<b>Window +10, -10</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	J-10
	Prov: BC	











**LITHOLOGY**

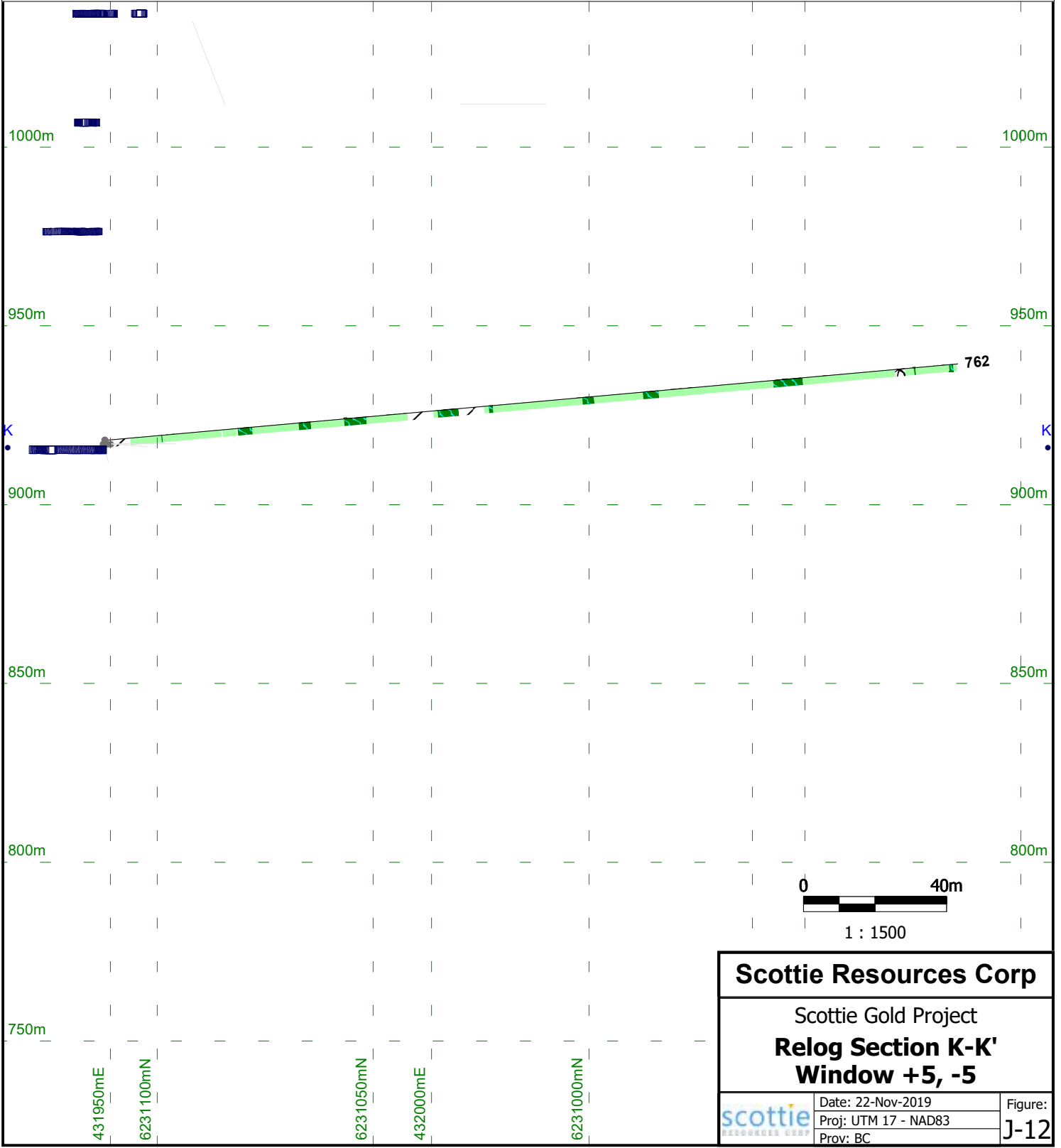
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-  LMP (Lampophyre dyke)
-  DIO (Microdiorite dykes: microdiorite, diorite)
-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Relog Section J-J'</b>		
<b>Window +20, -20</b>		
	Date: 22-Nov-2019 Proj: UTM 17 - NAD83 Prov: BC	Figure: <b>J-11</b>











**LITHOLOGY**

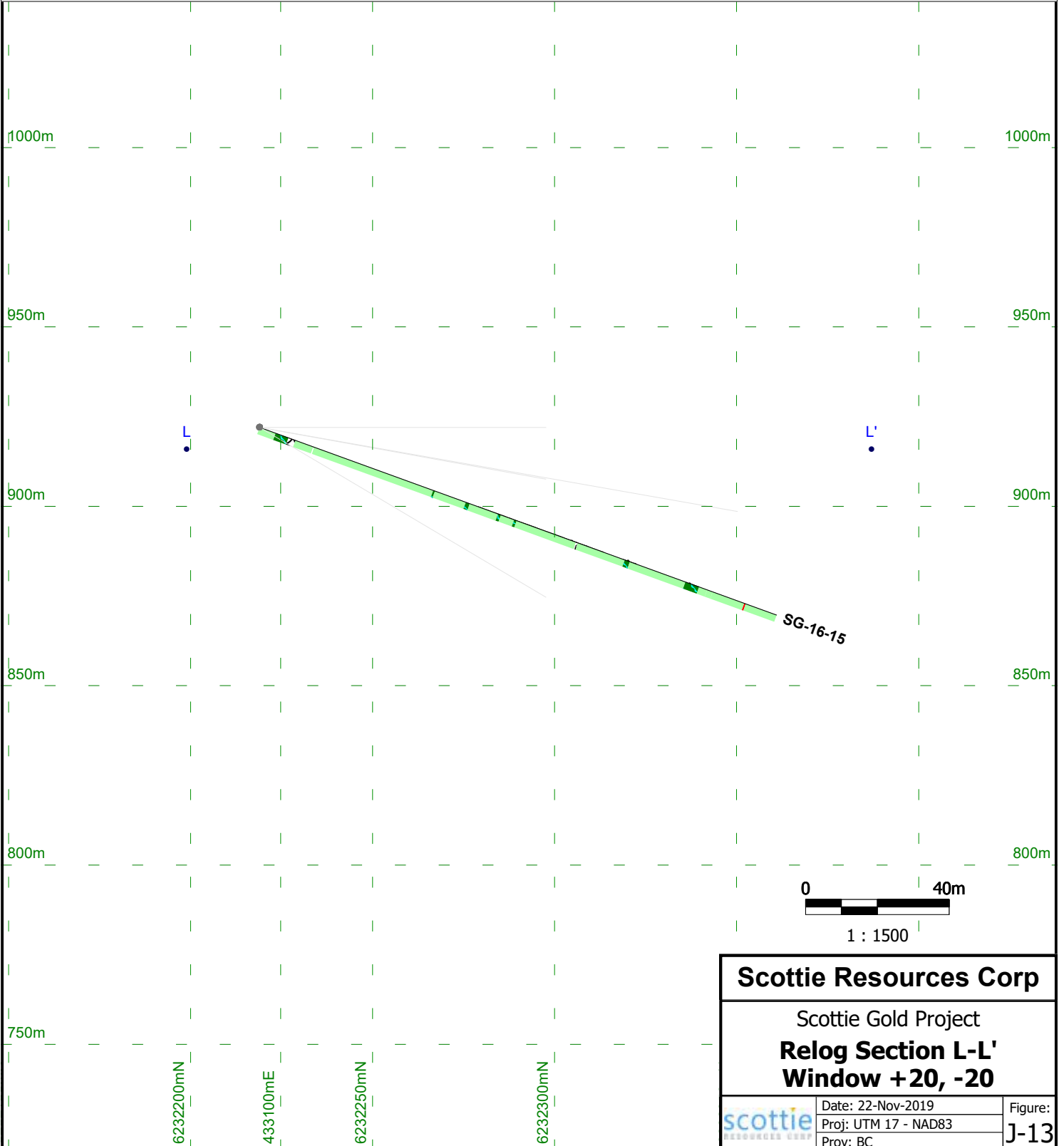
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-  FLT (Fault, fault breccia)
-  LMP (Lampophyre dyke)
-  DIO (Microdiorite dykes: microdiorite, diorite)
-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit



<b>Scottie Resources Corp</b>		
Scottie Gold Project		
<b>Re-log Section K-K'</b>		
<b>Window +5, -5</b>		
	Date: 22-Nov-2019	Figure:
	Proj: UTM 17 - NAD83	<b>J-12</b>
	Prov: BC	

**LITHOLOGY**

-  MISS (Core missing)
-  FLT (Fault, fault breccia)
-  LMP (Lampophyre dyke)
-  DIO (Microdiorite dykes: microdiorite, diorite)
-  DIA (Diabase dykes)
-  VEIN
-  SLZN (Summit Lake Zone)
-  AND (Andesite)
-  Histogram - Gold (g/t)
-  Adit



**Appendix K: Reject Sampling Drill Collars**

**Table K-1: Collar information for holes with 2018 re-assayed rejects**

Projection: NAD83 / UTM zone 9N

Hole ID	Easting	Northing	RL	Azimuth	Dip	Depth
707	431829	6231173	911	220.5	-44.5	69.49
721	431881	6231128	916	224	-62	119.00
726	431900	6231083	894	177.4	-28.3	109.73
728	431899	6231083	894	194	-51	104.00
730	431822	6231156	908	220	-65	88.00
732	431829	6231174	914	230.4	-60.2	115.82



**Appendix L: Reject Sample List**

**Table L-1: List of re-analyzed coarse reject samples taken from the Scottie Gold property**

<b>2018 Sample ID</b>	<b>Historical ID</b>	<b>Hole ID</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Length (m)</b>	<b>Zone</b>	<b>Sample Description</b>
2615740	77125	721	99.12	99.82	0.70	M Zone	Summit Lake quartz-carbonate vein
2615741	77476	728	43.37	44.10	0.73	M Zone	Other quartz vein
2615742	77533	730	64.01	64.77	0.76	M Zone	Summit Lake quartz-carbonate vein
2615743	77400	726	46.88	47.18	0.30	M Zone	Unuk River lapilli andesite
2615744	77534	730	64.77	65.53	0.76	M Zone	Summit Lake quartz-carbonate vein
2615745	77530	730	57.55	58.22	0.67	M Zone	Summit Lake quartz-carbonate vein
2615746	77604	732	106.68	107.35	0.67	M Zone	Summit Lake quartz-carbonate vein
2615747	77605	732	107.35	108.02	0.67	M Zone	Summit Lake quartz-carbonate vein
2615748	29690	707	61.26	61.87	0.61	M Zone	Summit Lake quartz-carbonate vein
2615749	77124	721	98.15	99.12	0.98	M Zone	Summit Lake quartz-carbonate vein

**Appendix M: Reject Sample COAs**



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**CERTIFICATE VA18239317**

Project: Scottie Gold  
 P.O. No.: ROT18-02  
 This report is for 10 Crushed Rock samples submitted to our lab in Terrace, BC, Canada on 5-SEP-2018.  
 The following have access to data associated with this certificate:  
 BRAD ROURKE                      RON VOORDOUW

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Hg-MS42	Trace Hg by ICPMS	ICP-MS

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

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

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Scottie Gold

<b>CERTIFICATE OF ANALYSIS VA18239317</b>
---

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2615740		0.96	6.07	4.33	1390	240	0.60	3.40	9.42	10.20	15.75	96.9	14	5.35	484	7.68
2615741		0.88	6.95	3.20	238	290	0.40	3.41	12.45	4.60	18.20	64.6	10	4.46	341	7.03
2615742		1.00	7.82	2.17	35.5	30	0.53	1.51	17.05	0.39	16.25	49.9	16	0.76	353	10.85
2615743		0.28	6.59	4.41	541	190	0.73	3.11	2.84	227	14.00	23.7	12	7.89	149.0	5.71
2615744		1.02	15.90	0.91	68.2	10	0.43	1.29	12.50	4.90	6.67	120.5	12	0.67	1400	16.95
2615745		0.68	2.79	4.26	28.4	250	0.48	5.22	13.75	0.59	8.18	108.0	8	4.27	826	10.05
2615746		0.80	22.1	0.75	214	<10	0.13	6.10	15.90	1.51	6.22	74.0	6	0.46	816	15.55
2615747		0.84	9.93	1.09	184.0	10	0.15	14.90	19.95	4.69	4.99	58.1	8	0.64	350	9.84
2615748		0.56	5.35	4.95	102.0	130	0.74	6.23	3.94	0.49	31.0	311	29	1.35	1330	22.2
2615749		1.24	1.30	5.48	31.5	340	0.77	0.79	6.39	4.14	16.90	16.4	22	7.48	143.0	6.57



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239317**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
2615740		11.35	0.07	0.5	0.119	0.225	1.25	9.6	45.8	1.97	2200	1.90	0.06	2.4	7.8	1390
2615741		7.01	0.08	0.4	0.265	0.117	1.52	11.2	32.1	1.06	1520	23.4	0.07	1.9	7.4	760
2615742		9.28	0.08	0.4	0.079	0.378	0.08	11.2	19.8	2.03	1120	106.0	0.29	1.6	5.7	1660
2615743		12.35	0.08	0.5	2.81	0.913	1.37	7.0	59.0	1.72	1260	1.54	0.02	2.5	6.0	950
2615744		7.16	0.11	0.2	0.221	0.975	0.02	3.2	13.0	1.30	707	94.5	0.04	0.7	12.3	3700
2615745		19.90	0.06	0.4	0.009	0.421	0.66	4.7	20.0	0.96	541	43.9	0.30	1.6	14.5	1000
2615746		5.75	0.09	0.1	0.524	0.157	<0.01	3.7	13.5	0.70	2790	119.0	<0.01	0.2	88.0	1310
2615747		6.13	0.07	0.1	0.271	0.330	0.02	3.1	20.8	0.99	2530	292	<0.01	0.2	34.0	1000
2615748		13.75	0.15	1.1	0.073	0.161	0.20	19.7	29.2	2.36	548	13.30	1.55	4.8	35.3	1800
2615749		13.80	0.06	0.6	0.038	0.158	1.78	10.1	49.5	2.25	2130	0.99	0.03	3.4	9.4	1300



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239317**

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
2615740		341	65.2	<0.002	4.90	22.6	20.6	3	3.5	127.5	0.12	0.55	0.72	0.231	2.25	0.5
2615741		326	70.9	<0.002	6.20	24.2	15.5	4	1.7	120.5	0.09	0.28	0.53	0.164	2.86	0.3
2615742		26.0	2.6	0.012	7.19	8.80	19.0	5	2.5	216	0.08	0.60	0.85	0.158	0.61	0.6
2615743		935	81.4	<0.002	2.85	33.0	22.5	5	2.3	52.3	0.12	0.13	0.81	0.252	1.45	0.5
2615744		79.6	0.6	0.080	>10.0	20.5	12.7	15	1.7	160.0	<0.05	0.42	0.69	0.066	2.98	0.2
2615745		11.6	24.8	0.006	6.17	13.95	8.3	8	3.0	651	0.08	0.42	0.51	0.110	0.54	0.2
2615746		38.6	0.2	0.182	>10.0	32.1	6.5	16	2.0	160.0	<0.05	0.54	0.92	0.034	0.28	0.2
2615747		62.4	0.9	0.133	9.33	24.1	6.8	8	2.4	163.0	<0.05	1.37	0.45	0.023	0.44	0.1
2615748		10.2	5.1	<0.002	>10.0	9.88	20.4	34	2.3	428	0.24	1.67	1.99	0.364	0.86	0.9
2615749		97.3	91.6	<0.002	3.04	13.55	29.8	2	4.6	120.0	0.17	0.05	0.99	0.333	1.49	0.5



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**CERTIFICATE OF ANALYSIS VA18239317**

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Au-ICP21 Au ppm 0.001	Au-GR21 Au ppm 0.05
2615740		185	2.3	10.1	710	12.2		6.81	
2615741		116	2.6	12.1	318	8.3		>10.0	20.6
2615742		372	0.7	9.3	50	10.6		>10.0	80.6
2615743		163	4.8	7.9	>10000	13.3	1.380	>10.0	16.55
2615744		378	0.9	7.2	247	6.1		>10.0	153.0
2615745		232	0.9	5.7	28	12.3		>10.0	17.45
2615746		373	1.1	5.5	117	2.5		>10.0	62.9
2615747		191	0.6	5.5	348	2.0		>10.0	23.7
2615748		204	1.3	13.4	47	36.9		>10.0	67.1
2615749		224	3.3	8.4	287	14.4		0.100	





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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18239317**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-GRA21	Au-ICP21	Hg-MS42	LOG-21
ME-MS61	ME-OG62	PUL-31	PUL-QC
SPL-21	WEI-21	Zn-OG62	

**Appendix N: Tailing Sampling Auger Collars**

**Table N-1: Collar information for 2018 auger holes drilled into tailings**

Projection: NAD83 / UTM zone 9N

<b>Auger_ID</b>	<b>Easting</b>	<b>Northing</b>	<b>RL</b>	<b>Azimuth</b>	<b>Dip</b>	<b>Depth_m</b>
18AH_001	433393	6232179	820	0	-90	3.05
18AH_002	433404	6232161	820	0	-90	3.3
18AH_003	433435	6232139	820	0	-90	3.2
18AH_004	433444	6232175	820	0	-90	3.2
18AH_005	433448	6232214	820	0	-90	2.5
18AH_006	433422	6232193	820	0	-90	3.3
18AH_007	433478	6232186	820	0	-90	3.25
18AH_008	433475	6232231	820	0	-90	2.6
18AH_009	433432	6232232	820	0	-90	3
18AH_010	433437	6232260	820	0	-90	0.9
18AH_011	433395	6232236	820	0	-90	2.4
18AH_012	433410	6232203	820	0	-90	3
18AH_013	433463	6232148	820	0	-90	3.3
18AH_014	433439	6232097	820	0	-90	1.7

**Appendix O: Tailing Sample List**

**Table O-1: Descriptions of tailing samples taken from the Scottie Gold property**

Sample ID	Auger Hole ID	Depth (m)	Colour	Texture	Moisture	Comments
2615416	18AH_001	0.5	Red brown	Silty sand	Dry	
2615417	18AH_001	0.85	Dark grey	Silty sand	Dry	
2615418	18AH_002	0.4	Dark brown	Silty sand	Dry	
2615419	18AH_002	1	Dark grey	Silty sand	Dry	
2615420	18AH_002	1.7	Dark grey	Silty sand	Dry	
2615421	18AH_002	2	Dark grey	Silty sand	Wet	
2615422	18AH_003	0.4	Grey brown	Silty sand	Dry	
2615423	18AH_003	1.3	Dark grey	Silty sand	Wet	
2615424	18AH_003	1.9	Dark grey	Silty sand	Wet	
2615425	18AH_003	2.5	Dark grey	Silty sand	Wet	
2615426	18AH_003	3.2	Dark grey	Silty sand	Wet	
2615427	18AH_004	0.45	Dark grey	Silty sand	Moist	
2615428	18AH_004	1.2	Dark grey	Silty sand	Wet	
2615429	18AH_004	2.35	Dark grey	Silty sand	Wet	
2615430	18AH_004	3.2	Dark grey	Silty sand	Wet	
2615431	18AH_005	0.5	Dark grey	Silty sand	Moist	
2615432	18AH_005	1.4	Dark grey	Silty sand	Wet	
2615433	18AH_005	2.5	Dark grey	Silty sand	Wet	
2615434	18AH_006	0.4	Red brown	Silty sand	Dry	
2615435	18AH_006	1	Dark grey	Silty sand	Moist	
2615436	18AH_006	1.8	Dark grey	Silty sand	Moist	
2615437	18AH_006	2.4	Dark grey	Silty sand	Wet	
2615438	18AH_006	3.3	Dark grey	Silty sand	Wet	
2615439	18AH_007	0.5	Dark grey	Silty sand	Moist	
2615440	18AH_007	1.2	Dark grey	Silty sand	Wet	
2615441	18AH_007	1.8	Dark grey	Silty sand	Wet	
2615442	18AH_007	2.5	Dark grey	Silty sand	Wet	
2615443	18AH_007	3.25	Dark grey	Silty sand	Wet	
2615444	18AH_008	0.6	Dark grey	Silty sand	Moist	
2615445	18AH_008	1.4	Dark grey	Silty sand	Wet	
2615446	18AH_008	1.8	Dark grey	Silty sand	Wet	
2615447	18AH_008	2.6	Dark grey	Clayey silt	Wet	
2615448	18AH_009	0.6	Dark grey	Silty sand	Moist	
2615449	18AH_009	1.2	Dark grey	Silty sand	Wet	
2615450	18AH_009	1.9	Dark grey	Silty sand	Wet	
2615701	18AH_009	2.3	Dark grey	Silty sand	Wet	
2615702	18AH_009	3	Dark grey	Silty sand	Wet	
2615703	18AH_010	0.65	Dark grey	Clay	Moist	
2615704	18AH_010	0.9	Dark grey	Clayey gravel	Moist	EOH due to gravel
2615705	18AH_011	0.6	Dark grey	Clayey silt	Moist	
2615706	18AH_011	1.2	Dark grey	Clayey silt	Wet	
2615707	18AH_011	2.2	Dark grey	Clayey silt	Wet	
2615708	18AH_011	2.4	Dark grey	Clayey gravel	Wet	
2615709	18AH_012	0.6	Dark grey	Silty sand	Moist	

Sample ID	Auger Hole ID	Depth (m)	Colour	Texture	Moisture	Comments
2615710	18AH_012	1.1	Dark grey	Silty sand	Moist	
2615711	18AH_012	1.75	Dark grey	Silty sand	Moist	
2615712	18AH_012	2.55	Dark grey	Silty sand	Wet	
2615713	18AH_012	3	Dark grey	Silty sand	Wet	
2615714	18AH_013	0.7	Dark grey	Silty sand	Wet	
2615715	18AH_013	1.2	Dark grey	Silty sand	Wet	
2615716	18AH_013	1.8	Dark grey	Silty sand	Wet	
2615717	18AH_013	2.45	Dark grey	Silty sand	Wet	
2615718	18AH_013	3.3	Dark grey	Silty sand	Wet	
2615719	18AH_014	0.75	Dark grey	Silty sand	Wet	
2615720	18AH_014	1.7	Dark grey	Silty sand	Wet	EOH due to hole collapse, very wet
2615721	18AH_001	1.55	Dark grey	Silty sand	Dry	
2615722	18AH_001	2.2	Dark grey	Silty sand	Dry	
2615723	18AH_001	3.05	Dark grey	Silty sand	Wet	
2615724	18AH_001	0	Red brown	Silty sand	Dry	
2615725	18AH_002	0	Red brown	Silty sand	Dry	
2615726	18AH_003	0	Red brown	Silty sand	Dry	
2615727	18AH_014	0	Dark grey	Silty sand	Moist	
2615728	18AH_013	0	Brown	Silty sand	Moist	
2615729	18AH_007	0	Grey brown	Silty sand	Dry	
2615730	18AH_004	0	Red brown	Silty sand	Dry	
2615731	18AH_006	0	Red brown	Clayey silt	Dry	
2615732	18AH_012	0	Red brown	Silty sand	Dry	
2615733	18AH_009	0	Red brown	Silty sand	Dry	
2615734	18AH_005	0	Red grey	Clayey silt	Dry	
2615735	18AH_008	0	Grey brown	Silty sand	Dry	
2615736	18AH_010	0	Red brown	Silty sand	Dry	
2615737	18AH_011	0	Red grey	Silty sand	Dry	
2615738	18AH_002	2.7	Dark grey	Silty sand	Wet	
2615739	18AH_002	3.3	Dark grey	Silty sand	Wet	

**Appendix P: Tailing Sample COAs**



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Plus Appendix Pages  
Finalized Date: 1-OCT-2018  
Account: EIA

**CERTIFICATE VA18220954**

Project: Scottie Gold  
P.O. No.: ROT18-02  
This report is for 74 Tailings samples submitted to our lab in Vancouver, BC, Canada on 6-SEP-2018.

The following have access to data associated with this certificate:

BRAD ROURKE

RON VOORDOUW

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
DRY-21	High Temperature Drying

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
2615416		0.70	6.72	2.64	1130	3.04	<10	30	0.11	14.30	1.22	1.76	5.37	67.0	25	2.95
2615417		0.46	6.45	2.65	1055	2.34	<10	20	0.20	11.40	3.50	23.2	6.04	175.5	25	2.72
2615418		0.48	6.40	2.58	1460	2.08	<10	20	0.16	9.96	2.92	31.9	5.89	247	23	2.78
2615419		0.60	7.66	2.77	1000	1.48	<10	30	0.21	12.55	4.24	32.7	7.79	180.5	27	2.64
2615420		0.56	8.38	2.73	1160	3.13	<10	30	0.24	9.62	3.95	27.6	6.45	196.0	25	2.71
2615421		0.52	10.45	2.24	1620	2.28	<10	30	0.22	12.55	4.66	44.2	5.71	241	22	2.91
2615422		0.48	6.43	2.76	1235	2.11	<10	30	0.29	10.90	3.98	24.5	7.14	179.0	25	3.13
2615423		1.02	7.24	2.74	992	1.81	<10	30	0.27	8.05	4.31	27.4	6.68	169.5	26	2.78
2615424		1.32	7.32	2.51	1070	1.72	<10	30	0.23	8.64	4.21	32.1	6.15	175.5	24	3.05
2615425		1.08	7.25	2.27	1050	2.01	<10	30	0.24	8.11	4.10	28.1	6.30	170.0	23	2.55
2615426		1.06	8.33	2.19	1120	2.64	<10	30	0.23	8.98	4.30	32.0	5.75	186.5	23	2.77
2615427		1.04	7.36	2.68	889	1.22	<10	30	0.26	11.80	4.83	27.9	6.63	138.0	29	2.65
2615428		1.38	9.10	2.36	1580	2.38	<10	30	0.21	10.65	4.07	28.9	5.77	231	23	2.70
2615429		1.60	10.15	2.23	1345	3.25	<10	30	0.23	10.95	4.55	36.2	5.17	206	22	2.79
2615430		1.30	8.48	2.21	1360	2.66	<10	30	0.22	10.20	4.66	32.2	5.08	206	21	3.34
2615431		1.46	5.52	2.73	779	1.26	<10	30	0.27	10.15	4.99	24.0	6.79	145.0	29	2.67
2615432		1.44	7.84	2.44	1065	1.85	<10	30	0.23	8.99	4.46	24.4	6.33	183.5	27	2.64
2615433		1.40	8.00	2.36	1015	2.16	<10	30	0.23	8.09	4.66	29.3	6.03	175.5	25	2.66
2615434		0.66	8.06	2.21	566	1.19	<10	30	0.18	12.50	3.41	4.62	5.78	59.4	25	2.27
2615435		1.56	7.23	2.55	983	1.39	<10	30	0.26	10.40	4.16	26.4	5.85	171.5	25	2.78
2615436		1.08	8.27	2.33	1365	3.15	<10	30	0.24	10.30	3.57	26.1	5.47	198.5	21	2.94
2615437		1.72	8.34	2.28	1430	2.88	<10	30	0.25	12.15	4.22	33.0	5.02	205	20	3.38
2615438		1.04	8.21	2.29	1355	3.27	<10	30	0.25	12.35	3.86	34.7	5.23	211	19	4.22
2615439		1.68	6.70	2.51	1135	2.38	<10	30	0.25	10.75	3.87	26.3	6.27	168.5	23	2.39
2615440		1.66	7.68	2.28	1140	1.02	<10	30	0.23	10.30	4.20	30.4	5.89	188.0	23	2.22
2615441		1.22	7.00	2.38	960	1.13	<10	30	0.23	8.47	3.89	26.0	5.82	168.0	24	2.02
2615442		1.26	7.43	2.44	929	1.34	<10	30	0.23	8.49	4.21	27.8	6.47	171.0	25	2.15
2615443		1.40	8.28	2.38	1135	2.06	<10	30	0.23	10.40	4.20	31.5	5.95	187.5	24	2.29
2615444		1.28	6.75	2.56	1055	0.96	<10	30	0.27	11.25	4.87	26.3	6.78	147.5	26	2.07
2615445		1.34	7.29	2.58	1320	2.19	<10	30	0.27	13.10	4.02	23.6	5.98	173.0	23	2.30
2615446		1.94	7.80	2.83	1205	1.64	<10	30	0.26	13.10	4.91	32.2	6.72	176.0	28	2.80
2615447		1.72	7.18	3.04	971	1.30	10	40	0.28	12.15	4.91	29.4	6.98	156.0	31	3.01
2615448		1.40	6.77	2.77	1100	1.39	<10	30	0.28	14.30	4.72	23.7	6.71	155.5	27	2.55
2615449		0.98	7.32	2.62	1180	1.37	<10	30	0.23	12.55	4.47	25.6	6.37	173.5	27	2.22
2615450		1.26	9.82	2.45	1155	1.30	<10	30	0.23	10.30	4.31	35.7	6.81	207	25	1.88
2615701		1.78	7.10	2.76	865	0.97	<10	30	0.26	9.80	4.98	27.8	7.17	159.0	30	2.51
2615702		1.48	8.08	2.41	1145	1.12	<10	30	0.26	13.80	5.29	36.9	5.62	184.0	23	4.11
2615703		1.58	6.79	2.96	1615	0.66	<10	30	0.28	21.6	5.84	35.5	6.44	140.0	26	2.71
2615704		1.02	2.29	2.88	327	0.16	<10	110	0.54	4.10	1.85	8.82	14.65	52.8	46	2.60
2615705		1.64	5.90	2.97	1045	0.68	<10	30	0.30	16.45	5.72	29.9	7.11	152.0	28	3.46



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
2615416		418	11.05	8.52	0.11	0.17	0.18	0.203	0.09	3.1	36.2	1.89	1510	37.5	0.01	0.11
2615417		779	16.10	8.14	0.16	0.17	0.15	0.304	0.08	3.5	27.3	1.82	1710	32.8	0.01	0.15
2615418		679	15.00	7.72	0.13	0.14	0.23	0.273	0.09	3.5	24.2	1.68	1500	42.5	0.01	0.14
2615419		893	15.65	8.16	0.12	0.17	0.18	0.326	0.10	4.6	26.2	1.95	1900	29.4	0.02	0.15
2615420		878	16.80	8.00	0.16	0.17	0.18	0.320	0.10	4.1	48.4	1.94	2050	30.3	0.01	0.13
2615421		1060	20.8	6.83	0.18	0.17	0.31	0.435	0.08	3.4	38.7	1.51	1840	42.4	0.02	0.18
2615422		761	15.20	8.23	0.14	0.20	0.20	0.300	0.10	4.3	49.3	1.90	1920	35.6	0.02	0.15
2615423		836	15.70	8.25	0.14	0.18	0.18	0.314	0.10	4.2	50.5	1.93	2070	33.9	0.02	0.13
2615424		857	16.55	7.59	0.15	0.18	0.22	0.335	0.09	3.9	45.1	1.75	1960	41.6	0.02	0.14
2615425		840	17.20	6.82	0.15	0.19	0.20	0.316	0.09	3.5	40.5	1.59	1860	44.5	0.01	0.19
2615426		905	18.65	6.66	0.16	0.19	0.24	0.329	0.09	3.2	38.8	1.54	1810	38.0	0.01	0.19
2615427		990	15.40	7.87	0.14	0.17	0.18	0.304	0.10	3.8	46.8	2.02	2110	27.2	0.01	0.13
2615428		1010	18.60	7.05	0.16	0.15	0.22	0.330	0.10	3.4	42.7	1.72	1950	32.6	0.01	0.15
2615429		980	18.15	6.81	0.15	0.16	0.29	0.359	0.09	3.1	40.5	1.62	1930	45.9	0.01	0.15
2615430		950	18.05	6.86	0.15	0.14	0.28	0.339	0.09	3.0	39.3	1.54	1860	44.8	0.01	0.15
2615431		879	14.80	8.39	0.13	0.18	0.25	0.373	0.11	4.1	47.6	1.99	2000	41.8	0.01	0.14
2615432		957	16.40	7.46	0.14	0.16	0.18	0.315	0.10	3.7	42.7	1.84	1970	29.9	0.01	0.15
2615433		899	16.45	7.31	0.13	0.16	0.20	0.329	0.10	3.5	42.1	1.78	1980	37.0	0.01	0.15
2615434		812	12.20	7.11	0.11	0.16	0.16	0.202	0.09	3.4	40.0	1.70	1500	32.8	<0.01	0.16
2615435		966	15.70	7.65	0.16	0.14	0.20	0.333	0.10	3.5	48.3	1.87	2040	23.3	0.01	0.11
2615436		775	16.15	7.44	0.17	0.15	0.22	0.308	0.09	3.1	44.1	1.62	1730	34.4	0.02	0.14
2615437		838	16.85	7.25	0.18	0.13	0.30	0.354	0.09	2.8	42.2	1.52	1680	37.8	0.01	0.13
2615438		831	17.70	7.47	0.19	0.15	0.31	0.404	0.10	3.0	41.8	1.48	1680	41.4	0.02	0.14
2615439		817	15.95	7.61	0.18	0.16	0.21	0.320	0.10	3.6	45.7	1.76	1820	26.4	0.02	0.13
2615440		1025	17.30	6.80	0.18	0.15	0.20	0.359	0.09	3.5	42.1	1.63	1820	20.0	0.02	0.15
2615441		898	15.85	6.87	0.15	0.16	0.15	0.298	0.09	3.5	43.6	1.73	1860	22.7	0.01	0.13
2615442		948	16.15	7.22	0.16	0.17	0.18	0.329	0.10	3.9	45.4	1.77	1940	23.3	0.02	0.14
2615443		993	16.95	7.13	0.17	0.16	0.18	0.369	0.10	3.6	44.0	1.72	1920	22.2	0.02	0.14
2615444		774	13.95	7.71	0.13	0.17	0.20	0.309	0.11	3.9	47.2	1.83	1860	24.7	0.02	0.14
2615445		756	15.50	7.92	0.16	0.15	0.21	0.321	0.10	3.4	48.0	1.81	1880	30.8	0.02	0.13
2615446		981	15.65	8.81	0.15	0.17	0.26	0.393	0.10	4.0	54.2	2.07	2210	26.0	0.02	0.12
2615447		1000	15.00	9.25	0.14	0.18	0.24	0.371	0.11	4.1	57.0	2.23	2330	34.8	0.02	0.11
2615448		923	15.00	8.76	0.14	0.17	0.22	0.352	0.10	3.9	51.5	2.02	1990	31.5	0.02	0.12
2615449		962	15.70	7.70	0.15	0.16	0.19	0.327	0.09	3.7	46.7	1.92	1970	25.8	0.02	0.13
2615450		1165	18.25	7.19	0.17	0.15	0.24	0.359	0.09	4.1	46.9	1.78	2030	24.0	0.01	0.14
2615701		1045	15.35	8.32	0.13	0.17	0.21	0.344	0.10	4.1	50.9	2.04	2120	32.9	0.02	0.12
2615702		910	16.75	7.85	0.16	0.16	0.36	0.396	0.10	3.2	45.8	1.65	1840	44.7	0.02	0.14
2615703		1105	16.70	8.50	0.15	0.14	0.35	0.493	0.11	3.8	53.8	2.11	2290	34.1	0.01	0.10
2615704		352	7.75	9.67	0.09	0.10	0.13	0.143	0.14	7.5	41.7	1.93	1560	13.55	0.03	0.47
2615705		1085	15.30	9.05	0.14	0.18	0.26	0.426	0.11	4.1	53.1	2.09	2060	32.9	0.02	0.12



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**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
2615416		10.0	1350	727	5.6	0.003	3.41	24.5	12.6	12.9	2.5	12.8	<0.01	1.51	0.4	0.133
2615417		24.1	1300	639	5.4	0.004	>10.0	28.3	12.2	15.1	2.5	46.5	<0.01	1.00	0.6	0.099
2615418		24.5	1380	695	5.8	0.004	9.75	25.3	11.6	12.0	1.6	36.1	<0.01	0.96	0.6	0.090
2615419		20.9	1410	892	5.7	0.003	8.88	28.4	12.3	12.5	2.5	61.8	<0.01	0.97	0.6	0.109
2615420		21.4	1440	731	6.1	0.003	9.55	34.7	12.7	16.0	2.4	58.5	<0.01	1.02	0.6	0.105
2615421		35.5	1300	1200	5.6	0.009	>10.0	37.9	10.1	20.9	2.0	68.7	<0.01	1.44	0.5	0.095
2615422		23.4	1460	618	6.1	0.007	8.65	23.6	12.7	13.5	2.2	65.5	<0.01	1.09	0.6	0.110
2615423		22.0	1490	683	6.3	0.005	8.82	32.1	13.2	14.2	2.4	65.7	<0.01	0.85	0.7	0.111
2615424		25.5	1410	773	6.1	0.007	9.43	31.7	11.8	15.6	2.3	65.5	<0.01	0.88	0.6	0.103
2615425		28.9	1330	732	5.4	0.010	9.77	29.3	11.3	13.9	2.0	62.9	<0.01	0.85	0.5	0.105
2615426		30.9	1330	821	5.3	0.008	>10.0	33.6	10.9	15.6	1.9	66.2	<0.01	0.96	0.5	0.104
2615427		15.8	1350	930	5.6	0.003	8.06	29.2	13.0	12.1	2.5	59.2	<0.01	0.99	0.6	0.110
2615428		21.0	1280	822	5.6	0.004	>10.0	37.4	11.6	16.7	2.3	63.3	<0.01	1.16	0.6	0.097
2615429		25.7	1280	918	5.4	0.008	>10.0	36.4	10.8	15.8	1.9	64.9	<0.01	1.08	0.5	0.093
2615430		24.8	1270	797	5.6	0.008	>10.0	33.7	10.6	15.4	1.9	73.5	<0.01	1.07	0.5	0.089
2615431		18.9	1390	625	6.0	0.004	8.42	22.0	13.8	12.1	2.8	67.6	<0.01	1.00	0.6	0.121
2615432		19.6	1390	672	5.6	0.006	9.26	30.6	11.8	14.2	2.2	61.0	<0.01	1.13	0.5	0.107
2615433		20.9	1380	772	5.6	0.008	9.54	30.7	11.7	14.4	2.2	63.7	<0.01	0.87	0.6	0.109
2615434		9.2	1190	982	4.6	0.003	6.63	27.1	12.0	12.6	2.4	20.7	<0.01	0.83	0.4	0.105
2615435		17.2	1250	743	5.6	0.002	8.33	28.2	12.8	12.7	2.1	57.8	<0.01	0.96	0.5	0.100
2615436		20.7	1240	655	5.6	0.007	9.54	33.5	11.8	14.0	1.9	59.4	<0.01	1.01	0.5	0.097
2615437		22.2	1200	804	5.5	0.006	9.68	32.9	11.4	14.0	1.8	65.2	<0.01	1.12	0.5	0.088
2615438		24.9	1210	712	6.1	0.008	>10.0	31.7	11.6	16.2	1.9	67.9	<0.01	1.03	0.5	0.088
2615439		19.3	1270	609	5.5	0.003	9.15	28.2	12.5	13.3	2.1	59.3	<0.01	0.97	0.5	0.105
2615440		19.6	1220	673	5.3	0.002	9.49	31.7	11.4	15.2	2.2	59.4	<0.01	0.96	0.5	0.101
2615441		18.3	1230	630	5.2	0.002	8.43	29.6	11.6	12.7	2.1	56.1	<0.01	0.84	0.6	0.107
2615442		19.7	1280	674	5.6	0.003	8.58	32.4	12.2	12.9	2.2	62.1	<0.01	0.80	0.5	0.109
2615443		19.3	1270	658	5.6	0.002	9.28	31.3	11.9	14.7	2.2	59.6	<0.01	0.92	0.5	0.106
2615444		17.4	1450	840	6.0	0.002	8.20	27.2	13.3	10.5	2.0	68.5	<0.01	0.92	0.6	0.115
2615445		19.7	1240	639	5.8	0.003	9.37	33.8	12.8	14.4	2.0	62.1	<0.01	1.18	0.6	0.098
2615446		18.4	1280	942	6.1	0.002	8.55	33.6	13.7	12.6	2.3	72.6	<0.01	1.39	0.5	0.107
2615447		18.8	1320	968	6.4	0.005	7.96	33.2	14.7	11.7	2.5	79.1	<0.01	1.14	0.6	0.112
2615448		18.4	1290	891	5.8	0.003	8.01	29.0	13.9	12.5	2.4	76.3	<0.01	1.53	0.5	0.107
2615449		17.8	1300	915	5.3	0.003	8.59	30.6	12.3	12.3	2.3	64.4	<0.01	1.38	0.6	0.112
2615450		20.6	1320	1125	5.2	0.003	9.66	39.8	12.3	16.4	2.3	66.3	<0.01	1.04	0.5	0.099
2615701		18.5	1340	894	5.6	0.007	7.72	30.9	13.0	12.1	2.2	79.0	<0.01	1.01	0.5	0.108
2615702		24.2	1180	938	6.2	0.007	9.21	34.7	11.9	14.0	1.9	84.6	<0.01	1.25	0.5	0.094
2615703		20.5	1300	816	5.8	0.007	8.56	30.0	13.8	15.4	2.4	76.0	<0.01	1.43	0.5	0.095
2615704		39.6	1380	326	7.3	0.004	1.66	9.67	12.1	3.6	1.0	52.1	<0.01	0.47	1.6	0.122
2615705		19.0	1320	793	6.3	0.004	8.38	26.8	14.2	12.9	2.5	82.2	<0.01	1.60	0.5	0.111



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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
2615416		0.59	0.16	179	3.42	5.15	690	3.7	3.74
2615417		0.52	0.19	159	1.26	5.57	1820	3.4	1.995
2615418		0.45	0.17	164	1.42	6.33	1960	2.6	2.04
2615419		0.41	0.21	166	1.36	6.61	2640	3.9	1.785
2615420		0.39	0.19	175	1.93	5.84	1900	3.2	2.20
2615421		0.43	0.19	150	1.39	5.57	2890	3.6	2.12
2615422		0.43	0.20	172	1.90	6.41	1740	4.4	2.54
2615423		0.34	0.22	180	2.73	6.12	1860	3.6	1.980
2615424		0.35	0.20	170	1.74	5.87	2140	3.6	2.01
2615425		0.29	0.18	162	1.29	5.61	2010	3.9	2.19
2615426		0.28	0.18	158	1.32	5.56	2300	3.6	2.54
2615427		0.37	0.21	173	1.28	5.77	2360	3.3	1.555
2615428		0.39	0.19	160	1.76	5.30	2140	2.9	2.71
2615429		0.32	0.17	162	1.18	5.06	2610	2.9	3.80
2615430		0.32	0.17	158	1.46	5.27	2340	2.7	2.77
2615431		0.35	0.23	177	1.90	6.65	1920	3.5	1.315
2615432		0.30	0.19	171	1.24	5.53	1920	3.1	2.20
2615433		0.32	0.19	169	1.29	5.72	2170	3.1	2.00
2615434		0.41	0.17	156	1.66	4.59	1060	2.9	1.370
2615435		0.32	0.18	162	1.35	5.50	2040	2.6	1.490
2615436		0.35	0.18	159	1.31	5.59	1750	2.9	3.61
2615437		0.33	0.17	158	1.24	5.43	2230	2.5	3.86
2615438		0.38	0.16	161	1.78	5.62	2210	2.5	3.29
2615439		0.40	0.20	157	1.37	5.83	1820	3.0	2.21
2615440		0.33	0.18	145	1.34	5.36	2140	2.7	1.500
2615441		0.28	0.19	150	1.31	5.32	1880	2.9	1.685
2615442		0.29	0.20	155	1.22	5.79	1990	3.1	1.495
2615443		0.32	0.19	151	1.15	5.43	2200	2.9	2.27
2615444		0.41	0.20	163	3.09	6.75	1960	3.1	1.115
2615445		0.46	0.19	160	1.57	5.88	1680	2.8	2.42
2615446		0.38	0.21	177	1.63	6.18	2310	3.1	1.605
2615447		0.36	0.23	193	2.00	6.41	2190	3.3	1.495
2615448		0.37	0.21	172	2.84	6.60	1760	3.3	1.385
2615449		0.34	0.21	162	2.12	5.86	1980	3.1	1.320
2615450		0.30	0.19	154	1.38	5.57	2610	2.6	1.455
2615701		0.25	0.20	181	1.13	6.00	2070	3.3	1.195
2615702		0.33	0.22	162	1.38	6.01	2510	2.9	1.635
2615703		0.45	0.20	180	1.22	6.03	2510	2.5	0.695
2615704		0.20	0.66	152	0.84	10.75	725	3.8	0.202
2615705		0.42	0.23	180	1.62	6.74	2110	3.5	0.800



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**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
2615706		1.58	8.16	2.78	1115	0.94	<10	30	0.27	12.25	5.23	37.5	7.27	188.0	28	2.88
2615707		1.38	7.59	2.46	1030	0.91	<10	30	0.24	9.92	5.03	34.1	6.89	170.0	26	2.19
2615708		1.62	5.80	2.67	752	0.46	<10	70	0.39	7.75	3.55	24.7	10.60	125.5	34	2.41
2615709		1.68	5.05	2.70	824	1.01	<10	30	0.30	15.85	4.76	19.95	6.62	154.5	26	3.18
2615710		1.10	8.88	2.62	1035	1.62	<10	30	0.27	14.20	4.63	37.3	7.60	176.5	27	2.79
2615711		1.34	6.91	2.59	833	1.86	<10	30	0.26	7.93	3.71	20.2	6.90	162.5	27	2.55
2615712		1.22	8.84	2.18	1240	4.03	<10	30	0.25	11.60	4.23	34.7	5.29	194.5	21	3.10
2615713		1.14	7.85	2.27	1805	2.98	<10	30	0.23	13.45	3.86	35.2	5.23	253	20	3.15
2615714		1.40	8.30	2.49	1735	1.37	<10	30	0.24	12.25	4.09	38.1	6.27	231	24	2.43
2615715		1.28	8.43	2.39	1330	1.42	<10	30	0.24	13.45	4.47	35.1	6.40	211	25	2.23
2615716		1.46	7.78	2.35	1360	1.44	<10	30	0.24	10.40	4.40	32.9	6.34	207	24	2.12
2615717		2.02	7.73	2.43	1225	1.34	<10	30	0.23	10.55	4.36	31.8	6.32	201	25	2.38
2615718		0.88	7.96	2.42	1355	1.25	<10	30	0.23	11.85	4.26	33.2	6.44	212	25	2.20
2615719		1.62	5.49	2.56	952	1.60	<10	30	0.26	10.80	4.24	18.70	6.33	141.0	25	2.15
2615720		1.24	8.21	2.44	1920	1.76	<10	30	0.25	16.30	3.94	29.9	6.11	245	23	2.36
2615721		1.18	10.45	2.23	1790	3.12	10	20	0.21	12.30	2.94	29.9	4.81	251	22	2.55
2615722		1.54	9.44	2.29	1465	4.14	10	30	0.26	10.20	3.12	23.6	5.87	221	23	3.14
2615723		1.68	11.45	2.06	1380	6.62	10	20	0.23	11.75	3.28	36.8	4.88	213	18	3.08
2615724		0.78	7.36	2.63	1185	2.67	10	30	0.19	11.40	0.44	1.60	5.78	81.8	25	2.69
2615725		0.54	5.54	2.74	1345	1.02	10	30	0.19	11.00	0.69	2.39	6.64	45.7	28	3.14
2615726		0.58	7.14	3.26	1210	0.75	10	40	0.31	13.00	1.49	5.78	7.02	79.8	30	5.46
2615727		1.10	9.60	2.19	1830	2.63	10	30	0.25	13.65	2.72	30.2	5.62	239	20	2.45
2615728		0.74	6.04	2.63	933	0.75	10	30	0.25	11.40	4.15	24.8	6.18	135.0	24	2.79
2615729		1.12	5.87	2.52	1145	1.49	10	30	0.26	9.09	3.40	21.1	5.84	161.5	22	2.25
2615730		0.58	7.85	2.88	875	1.09	10	30	0.22	15.25	2.13	16.60	7.04	82.2	28	3.29
2615731		0.52	6.84	3.35	943	0.49	10	30	0.35	12.85	3.38	29.0	7.44	147.0	32	4.33
2615732		0.96	7.53	2.79	983	2.47	<10	30	0.21	13.25	0.42	2.46	5.48	91.6	26	2.69
2615733		0.78	6.03	2.74	1045	1.82	<10	30	0.22	9.10	0.45	1.90	5.16	84.1	26	2.44
2615734		0.44	5.44	2.42	819	1.04	10	30	0.18	12.40	4.05	4.88	4.89	85.5	24	3.01
2615735		1.22	6.52	2.62	998	2.27	10	30	0.28	8.55	2.32	21.0	6.34	149.0	24	2.18
2615736		0.76	9.73	2.31	2390	2.97	<10	20	0.26	15.80	1.05	23.7	5.12	247	19	2.13
2615737		0.66	7.60	2.45	1400	1.96	<10	30	0.22	12.45	0.52	3.07	5.46	86.6	23	2.27
2615738		1.18	16.65	2.27	1415	2.66	10	30	0.25	18.35	4.90	65.9	4.59	216	21	2.87
2615739		1.20	13.75	2.06	1580	5.51	<10	30	0.21	14.80	3.95	45.1	4.50	237	19	2.87



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		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
2615706		1140	16.65	8.31	0.16	0.16	0.26	0.415	0.10	4.3	52.0	2.02	2260	28.4	0.02	0.13
2615707		994	16.85	7.21	0.13	0.16	0.25	0.381	0.09	3.9	45.1	1.77	2100	43.8	0.02	0.16
2615708		745	12.90	8.02	0.11	0.12	0.21	0.275	0.13	5.7	41.6	1.78	2060	33.7	0.03	0.40
2615709		891	13.95	8.49	0.13	0.18	0.20	0.332	0.10	3.7	48.0	1.89	1820	36.3	0.02	0.14
2615710		1010	17.05	7.67	0.14	0.17	0.22	0.379	0.11	4.5	47.4	1.89	2050	24.0	0.02	0.15
2615711		796	16.35	7.70	0.16	0.19	0.15	0.280	0.09	3.9	46.0	1.88	1950	31.0	0.02	0.17
2615712		816	17.05	6.95	0.16	0.16	0.26	0.351	0.09	3.0	41.1	1.50	1660	41.5	0.02	0.16
2615713		785	17.80	7.06	0.17	0.14	0.31	0.358	0.10	2.9	41.5	1.48	1620	36.2	0.02	0.15
2615714		940	16.85	7.62	0.14	0.16	0.26	0.406	0.10	3.8	46.1	1.76	1960	28.1	0.02	0.14
2615715		1045	17.05	7.26	0.16	0.17	0.22	0.418	0.09	3.8	45.1	1.75	2000	22.8	0.02	0.15
2615716		975	16.70	7.15	0.16	0.16	0.22	0.363	0.09	3.8	43.9	1.73	1980	25.4	0.02	0.15
2615717		993	17.05	7.40	0.16	0.16	0.21	0.352	0.09	3.7	45.0	1.78	2010	25.8	0.02	0.15
2615718		976	16.95	7.13	0.15	0.17	0.20	0.373	0.10	3.9	44.0	1.77	2010	24.1	0.02	0.15
2615719		659	13.50	7.81	0.13	0.17	0.16	0.274	0.10	3.6	46.4	1.89	1820	32.3	0.02	0.13
2615720		943	19.30	7.23	0.18	0.16	0.25	0.382	0.10	3.5	43.5	1.72	1740	29.6	0.02	0.17
2615721		951	18.75	6.79	0.20	0.14	0.19	0.341	0.08	3.0	45.4	1.63	1710	17.75	0.01	0.16
2615722		850	17.70	7.18	0.18	0.15	0.18	0.302	0.09	3.5	45.7	1.65	1680	25.8	0.01	0.17
2615723		1010	19.05	6.41	0.19	0.13	0.29	0.361	0.08	2.9	42.9	1.41	1600	50.1	0.01	0.16
2615724		519	13.60	8.29	0.13	0.17	0.19	0.223	0.09	3.3	52.7	1.85	1500	37.7	0.01	0.13
2615725		409	12.20	9.12	0.15	0.16	0.28	0.282	0.09	3.9	56.3	1.89	1420	49.0	<0.01	0.12
2615726		854	15.00	10.40	0.15	0.15	0.37	0.325	0.11	4.3	66.3	2.15	1640	60.7	0.01	0.11
2615727		909	19.70	6.68	0.19	0.15	0.23	0.349	0.09	3.3	44.3	1.50	1540	29.9	0.01	0.18
2615728		1010	15.90	7.81	0.16	0.15	0.24	0.381	0.09	3.6	52.5	1.82	1840	43.1	0.01	0.15
2615729		766	15.00	7.61	0.16	0.14	0.19	0.280	0.09	3.4	50.2	1.75	1680	31.7	0.01	0.13
2615730		1100	15.05	9.28	0.14	0.16	0.22	0.352	0.09	4.1	52.0	2.00	1660	39.3	0.01	0.13
2615731		1065	14.60	10.35	0.13	0.15	0.30	0.360	0.11	4.4	67.7	2.28	2150	51.1	0.01	0.09
2615732		455	13.45	8.39	0.12	0.18	0.17	0.219	0.10	3.3	57.3	2.05	1760	29.8	0.01	0.11
2615733		443	13.00	8.34	0.12	0.17	0.15	0.207	0.09	3.1	57.1	1.98	1660	34.4	0.01	0.12
2615734		1030	14.10	7.95	0.12	0.12	0.27	0.326	0.08	3.0	48.0	1.64	1500	41.0	0.01	0.14
2615735		687	14.50	7.68	0.13	0.16	0.16	0.259	0.10	3.7	52.9	1.90	1890	30.7	0.01	0.13
2615736		875	21.4	6.90	0.20	0.13	0.23	0.326	0.08	3.1	43.9	1.58	1440	23.5	0.01	0.18
2615737		620	15.15	7.60	0.12	0.15	0.19	0.170	0.09	3.2	48.0	1.72	1420	33.2	0.01	0.16
2615738		1210	20.1	6.93	0.17	0.12	0.47	0.562	0.09	2.7	45.6	1.53	1960	52.2	0.01	0.13
2615739		1015	19.65	6.12	0.19	0.15	0.35	0.414	0.09	2.7	40.2	1.39	1640	40.6	0.01	0.16



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 Account: EIA

Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
2615706		18.9	1360	1080	6.2	0.004	8.90	35.7	13.7	13.6	2.5	74.4	<0.01	1.21	0.6	0.112
2615707		25.3	1330	901	5.1	0.008	8.74	30.5	11.6	13.3	2.0	75.7	<0.01	0.96	0.6	0.101
2615708		32.8	1400	707	6.4	0.008	5.90	21.6	11.8	9.5	1.5	63.6	<0.01	0.78	1.0	0.114
2615709		19.5	1250	732	5.9	0.003	8.05	24.8	13.6	11.6	2.3	67.7	<0.01	1.74	0.6	0.107
2615710		18.7	1270	1130	6.3	0.002	9.41	36.3	13.3	13.9	2.5	62.5	<0.01	1.14	0.5	0.110
2615711		23.8	1400	568	5.1	0.007	8.65	27.3	12.9	13.2	2.2	59.5	<0.01	0.77	0.6	0.115
2615712		27.6	1230	790	5.8	0.009	9.89	31.8	11.0	14.9	1.7	64.0	<0.01	1.06	0.5	0.099
2615713		26.8	1220	685	5.9	0.006	>10.0	29.9	11.3	14.9	1.6	61.5	<0.01	1.18	0.5	0.089
2615714		19.3	1210	805	5.8	0.003	9.40	37.5	12.3	14.5	2.4	56.3	<0.01	1.18	0.6	0.103
2615715		19.7	1250	807	5.7	0.001	9.44	33.4	12.1	15.9	2.4	59.9	<0.01	1.14	0.7	0.107
2615716		19.3	1250	729	5.5	0.003	9.23	33.8	11.9	14.4	2.3	60.0	<0.01	1.00	0.6	0.104
2615717		22.4	1290	747	5.6	0.005	9.43	33.2	12.3	14.6	2.3	63.1	<0.01	1.05	0.5	0.106
2615718		19.5	1280	772	5.7	0.002	9.35	32.0	12.0	14.3	2.4	58.3	<0.01	1.02	0.5	0.110
2615719		16.7	1340	516	5.6	0.004	7.83	22.8	13.1	11.1	2.1	62.1	<0.01	1.12	0.6	0.114
2615720		26.2	1180	793	5.7	0.004	>10.0	36.9	12.1	19.3	2.2	57.7	<0.01	1.81	0.7	0.103
2615721		21.9	1160	1040	4.6	0.001	>10.0	40.4	10.6	17.3	1.9	41.6	<0.01	1.46	0.5	0.088
2615722		24.2	1250	916	5.5	0.003	>10.0	39.6	12.0	15.9	1.9	50.0	<0.01	1.20	0.6	0.095
2615723		30.9	1180	909	5.3	0.010	>10.0	36.8	10.3	16.6	1.7	51.3	<0.01	1.18	0.6	0.084
2615724		13.5	1400	632	5.2	0.005	4.70	28.8	13.2	11.3	2.0	10.3	<0.01	1.04	0.4	0.103
2615725		9.0	1670	800	5.8	0.003	1.31	26.1	13.7	9.5	2.0	15.0	<0.01	1.04	0.5	0.116
2615726		14.5	1510	1425	7.2	0.005	3.64	28.4	16.6	9.2	2.0	24.3	<0.01	1.29	0.7	0.101
2615727		28.5	1150	767	5.1	0.004	>10.0	38.8	11.3	17.7	1.9	44.1	<0.01	1.44	0.5	0.087
2615728		22.0	1540	772	5.0	0.007	8.33	25.0	13.0	11.9	2.1	59.4	<0.01	1.20	0.5	0.101
2615729		20.4	1350	530	5.2	0.004	8.53	24.0	12.7	11.5	1.8	55.6	<0.01	0.84	0.8	0.088
2615730		13.4	1360	1120	5.2	0.003	4.26	33.2	14.4	14.7	2.7	29.9	<0.01	1.16	0.5	0.102
2615731		18.3	1460	1305	7.1	0.004	4.80	30.2	17.1	8.9	2.2	58.2	<0.01	1.19	0.7	0.092
2615732		12.9	1360	784	5.9	0.002	3.78	28.8	15.0	11.2	2.4	9.6	<0.01	1.06	0.4	0.129
2615733		12.9	1420	582	5.4	0.004	4.33	24.8	14.0	9.2	2.0	10.2	<0.01	0.86	0.5	0.112
2615734		14.4	1180	668	4.8	0.005	7.62	20.9	12.1	12.7	2.3	30.0	<0.01	0.93	0.5	0.085
2615735		18.1	1330	506	5.7	0.003	7.45	24.1	13.4	10.3	2.0	36.3	<0.01	0.80	0.6	0.105
2615736		28.0	1200	553	4.7	0.003	>10.0	41.8	11.3	18.5	1.8	15.3	<0.01	1.39	0.6	0.082
2615737		15.5	1210	627	5.2	0.003	7.51	31.2	12.3	12.6	1.9	9.9	<0.01	1.11	0.5	0.105
2615738		31.8	1180	1510	5.0	0.009	>10.0	39.6	11.0	16.6	1.8	72.5	<0.01	1.24	0.5	0.077
2615739		31.0	1130	1080	5.0	0.008	>10.0	40.1	9.5	16.0	1.6	59.8	<0.01	1.25	0.5	0.084





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**CERTIFICATE OF ANALYSIS VA18220954**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
2615706		0.33	0.23	172	1.69	6.26	2710	3.1	0.988
2615707		0.27	0.21	162	1.29	5.83	2400	3.5	1.200
2615708		0.25	0.58	157	1.06	8.48	1800	3.9	0.744
2615709		0.37	0.21	168	3.84	6.59	1860	3.5	1.150
2615710		0.39	0.21	160	1.52	6.02	2920	3.3	1.310
2615711		0.29	0.28	171	1.16	5.93	1520	4.1	2.46
2615712		0.32	0.19	153	1.25	5.68	2290	3.2	3.86
2615713		0.41	0.17	156	3.35	5.54	2370	2.5	3.44
2615714		0.36	0.21	159	1.83	5.65	2720	2.9	1.565
2615715		0.35	0.22	151	1.53	5.87	2520	2.9	1.315
2615716		0.32	0.20	154	1.38	5.60	2340	2.8	1.395
2615717		0.32	0.19	162	1.30	5.73	2310	3.0	1.600
2615718		0.33	0.20	156	1.55	5.79	2430	2.9	1.535
2615719		0.36	0.21	167	1.75	6.09	1400	3.3	2.09
2615720		0.55	0.22	153	1.98	5.67	2100	3.0	2.79
2615721		0.47	0.16	141	1.46	4.57	2190	2.9	4.31
2615722		0.38	0.19	153	1.65	5.19	1700	3.2	5.19
2615723		0.37	0.17	143	1.14	4.92	2420	2.9	6.15
2615724		0.46	0.16	176	1.78	4.92	649	3.7	3.17
2615725		0.34	0.15	197	2.34	5.85	956	3.4	1.145
2615726		0.41	0.19	216	2.32	6.57	1060	3.2	0.714
2615727		0.50	0.18	140	1.76	5.05	2000	3.1	1.840
2615728		0.55	0.22	159	2.90	6.44	1850	3.2	0.961
2615729		0.42	0.21	160	1.56	5.90	1480	2.8	2.02
2615730		0.41	0.18	185	1.32	5.70	1320	4.2	1.305
2615731		0.37	0.20	211	1.54	7.55	2210	2.9	0.578
2615732		0.50	0.16	186	3.51	5.52	986	3.7	2.68
2615733		0.38	0.16	182	2.70	5.39	666	3.3	2.29
2615734		0.38	0.14	158	1.26	4.42	836	2.5	1.115
2615735		0.34	0.20	168	1.38	5.87	1540	3.3	2.29
2615736		0.78	0.18	143	3.11	4.83	1740	2.3	3.98
2615737		0.59	0.17	166	3.19	5.09	715	3.1	2.71
2615738		0.31	0.16	161	1.23	5.07	4700	2.6	3.01
2615739		0.32	0.17	145	1.42	4.86	3140	2.9	5.76





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Project: Scottie Gold

**CERTIFICATE OF ANALYSIS VA18220954**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).  
ME-MS41

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	DRY-21	LOG-22	ME-MS41
PUL-31	SPL-21	WEI-21	

**Appendix Q: USB memory stick**

Report text, geochemical data, drafting and plot files, photographs

**Appendix R: Geologist's Certificates**

## GEOLOGIST'S CERTIFICATE

Ian J.A. Carr  
201-1708 Columbia Street  
Vancouver, BC, Canada  
V5Y 0H7

I, **IAN J. A. CARR**, P.Geo., do hereby certify that:

1. I am a Project Geologist employed by Equity Exploration Consultants Ltd with offices at Suite 1510, 250 Howe Street, Vancouver, British Columbia, Canada.
2. I am a graduate of the University of British Columbia (2011) with a Bachelor of Science degree in Earth and Ocean Sciences (Geology).
3. I am a professional geoscientist in good standing with the Engineers and Geoscientists of British Columbia (license number 48266).
4. Since 2008 I have worked on and managed exploration programs focused on identifying and delineating sedimentary exhalative, ultramafic hosted nickel, diamonds, orogenic gold, and other deposits in Alaska, British Columbia, Ontario, Yukon, Northwest Territories, Oregon, California, and Australia.
5. I am a co-author of the assessment report "*2018 Geological and Geochemical Report on the Scottie Gold Property*" prepared for Scottie Resources Corp.
6. I did not visit the Scottie Gold Property.

Dated 28 November 2019 at Vancouver, British Columbia.

Signed and sealed: "*Ian Carr*"

\_\_\_\_\_  
Ian Carr, P.Geo

## GEOLOGIST'S CERTIFICATE

Ronald J. Voordouw  
1155 Judd Road  
Brackendale, BC, Canada  
V0N 1H0

I, **RONALD J. VOORDOUW**, Ph.D., P.Ge., do hereby certify that:

1. I am presently Director, Geoscience, with Equity Exploration Consultants Ltd, with offices at Suite 1510, 250 Howe Street, Vancouver, British Columbia, Canada.
2. I graduated from the University of Calgary, Alberta, Canada, with a Bachelor of Science degree in geology in 1999, and with a Doctorate in geology in 2006 from the Memorial University of Newfoundland, Canada.
3. I am a professional geoscientist in good standing (#06962) in the province of Newfoundland and Labrador.
4. Since 2006 I have been involved in natural resource exploration for base metals and gold (2006, 2011 to present); research on PGE deposits (2007, 2008); and regional geological mapping (2009, 2010) in Canada, South Africa and Brazil.
5. I am a co-author of the assessment report "2018 Geological and Geochemical Report on the Scottie Gold Property" prepared for Scottie Resources Corp.
6. I visited the Scottie Gold Property from 25-29 August 2018, completing the tailing and tunnel rock sampling program as well as reviewing some of the relogged drill core.

Dated 28 November 2019, at Vancouver, British Columbia.

Signed and sealed: "*Ronald J. Voordouw*"

\_\_\_\_\_  
Ronald J. Voordouw, Ph.D., P.Ge.

