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Summary Report

On 2017 Diamond Drilling

On

Campbell Zone

Ontario, Canada

Larder Lake Mining Division

St Andrew Goldfields Ltd., a subsidiary of Kirkland Lake Gold Ltd.

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June 28, 2019

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David Schonfeldt, P.Geo.

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Introduction

This assessment report summarizes the 2017 drill program (hereafter referred to as the *Program*), completed by St Andrew Goldfields Ltd. (SAS) in Garrison Township covering 1 staked surface mining rights claim. 1541 m of NQ core were drilled on 5 unique boreholes from July 20th through August 8th, 2017. The drilling permit is in **Appendix 1**.

The main objective of the *Program* was to conduct exploratory diamond drilling on a recently acquired claim bounded by past producing gold properties.

Location and Access

The *Program* property is located in Garrison Township in the Larder Lake Mining Division. **Figure 1** shows the location of the properties within Ontario and **Figure 2** shows the property locations within Garrison Township.

Primary access to the Campbell Zone property was via the Osisko Buffonta Mine road, which is located approximately 37km east of Matheson, ON along the Highway 101 East corridor. The claim centre is approximately 500m east of the flooded Buffonta pit and is reached by 5km of mine access and secondary logging roads.

As a result of Ontario's 2018 Mining Act Modernization initiative, the legacy claim number(s) covered by this drilling program are presented in **Table 1**, alongside current designation(s).

TABLE 1				
Hole Number	Collar		Additional Traversed	
	Legacy	Current	Legacy	Current
CZ17-001	L 3006330	169274	NILL	265983, 333670
CZ17-005	L 3006330	169274	NILL	134541, 333670
CZ17-006	L 3006330	265983	NILL	NILL
CZ17-007	L 3006330	134541	NILL	NILL
CZ17-008	L 3006330	169274	NILL	134541

Regional and Local Geology

(From: Salo, C.)

Most of the bedrock underling the Buffonta and adjacent claims is indicated to consist of weakly metamorphosed greenschist or lower facies subaqueously deposited tholeiitic basalt and volumetrically minor intercalated interflow sediment of the Kinojevis Group. Intrusive rocks include what is locally termed the Garrison Stock, a 4 km wide triangular monzonitic body which occupies an area of about 20 square kilometers. The Archean supracrustal rocks underlying most of this claim group are about 3.3 km south of the locally east striking structurally complex Porcupine-Destor Fault Zone.

Previous Work

Despite considerable work on the Buffonta property to the east, very little historical work has been done on the Campbell Zone. The southern portion of a 1985 airborne VLF & MAG survey flown for Cream Silver

Mines and Meridor Resources covered the *Program* area. A 1992 report for Gwen Resources Ltd. and Deak Resources Corporation detailed previous exploration efforts for “The New Buffonta”. Portions of this report covered the Campbell Zone and includes drill hole locations and significant assays from historical exploration programs. The report indicated four diamond drill holes being completed in 1979, and has a map showing several holes drilled on and around the *Program* area. Based on their naming system, they may have been drilled in 1980, 1987 or 1988.

SAS became a wholly owned subsidiary of KLG in 2016. The *Program* property is one of many covered by an airborne VTEM survey in 2016. Interpretation of the data by Geotech identified potential targets for subsequent exploration potential.

2017 Diamond Drill Program

Drilling commenced July 20th and finished on August 8th, with a total of 1541 m being drilled. One hydraulic diamond drill rig was contracted from Asinii Drilling to fulfil the requirements of the program (See **Figure 3** for drillhole locations).

Drill core was picked up by SAS employees at the drill sites and brought to the Holt core shack for logging by SAS personnel (logs to be found in **Appendix 3**). Logged core was cut by exploration staff using a diamond bladed saw, and sent to Expert Lab in Rouyn-Noranda, Quebec for gold analysis. A total of 647 core samples, 37 blanks and 35 standards were sent for assay. Assay certificates are in **Appendix 4**.

Highlights from the drilling program are presented in **Table 2** and are also noted in sections for relevant drill holes (**Appendix 5**).

The drill program was planned and supervised by Michael Clarke, P. Geo. and David Schonfeldt, P. Geo.

Summary

Diamond drill logs detail similar base lithologies for all holes cored – up to 35m (true depth) of glacial till overburden overlies a sequence of mixed mafic volcanic units punctuated by sparse intrusives including syenites, lamprophyre and diorites. Mafic volcanic units play host to patchy quartz and mafic breccias (VMX) proximal to shear or fault zones. Almost all significant assays are found in VMX major or minor units, in association with variable albitic and sericitic alteration, fine grained sulphides and weak quartz stockwork veinlets. The lone significant assay within porphyritic syenite intrusive (CZ17-001) occurs within a shear zone that may be an altered mafic volcanic raft. The widest composite graded 1.25 gpt / 4.0m including 3.78 gpt / 1.0m, and the best single assay was 21.81 gpt / 1.0m in CZ17-001. Significant assays are found in **Table 2**.

Recommendations

Although logs for some historical drill holes could not be found, a compilation of available data from historical and new holes was modelled in Studio 3 to look for a trend in gold mineralization. Despite sparse data, there is evidence for the existence of a thin, auriferous zone dipping roughly -30° towards the WNW. There appears to be a correlation between significant assays and weak EM anomalies, and the distribution of anomalies approximates the trend of the calculated vertical gradient (CVG). This trend

continues towards the SE corner of the *Program* claim and onto the adjacent Buffonta property. Further to the west, a similar geophysical feature is associated with a shallow, north dipping gold mineralized zone on KLG's Winteroad property.

Despite an approximate 300m separation between the Winteroad and Campbell Zone properties, there is enough geophysical and modelling evidence to search for continuity between these areas. It is therefore the author's recommendation that additional drilling on the Campbell Zone proper and between these properties be conducted. A 130° drilling azimuth is recommended to acquire accurate true thickness values for the aforementioned mineralized zone.

References

Salo, C., (1997). Mineral Deposit Inventory for Ontario file MDI32D05NW00009 (Last modified 2005-Dec-07)

Date and Signature Page

This report, entitled "Summary Report On 2017 Diamond Drilling on Campbell Zone" was prepared, reviewed and signed by the following authors:

Dated at Matheson, Ontario

June 28, 2019



Michael Clarke, P.Geol.

Senior Exploration Geologist



David Schonfeldt, P.Geol.

Exploration Manager

Certificate of Qualification

I, Michael Clarke of 219 Clement Avenue, Porcupine, ON, PON 1K0, do hereby declare:

- This report is being submitted on behalf of St. Andrew Goldfields, a wholly owned subsidiary of Kirkland Lake Gold.
- I have no interests, either directly or indirectly, nor do I expect to receive any in the future with respect to the Campbell Zone property.
- I graduated from McMaster University in 1992 with a Bachelor of Science degree in Geology.
- I have been a salaried employee of Kirkland Lake Gold since May, 2017.
- I am a member, in good standing, of the Association of Professional Geoscientists of Ontario.

Signed,



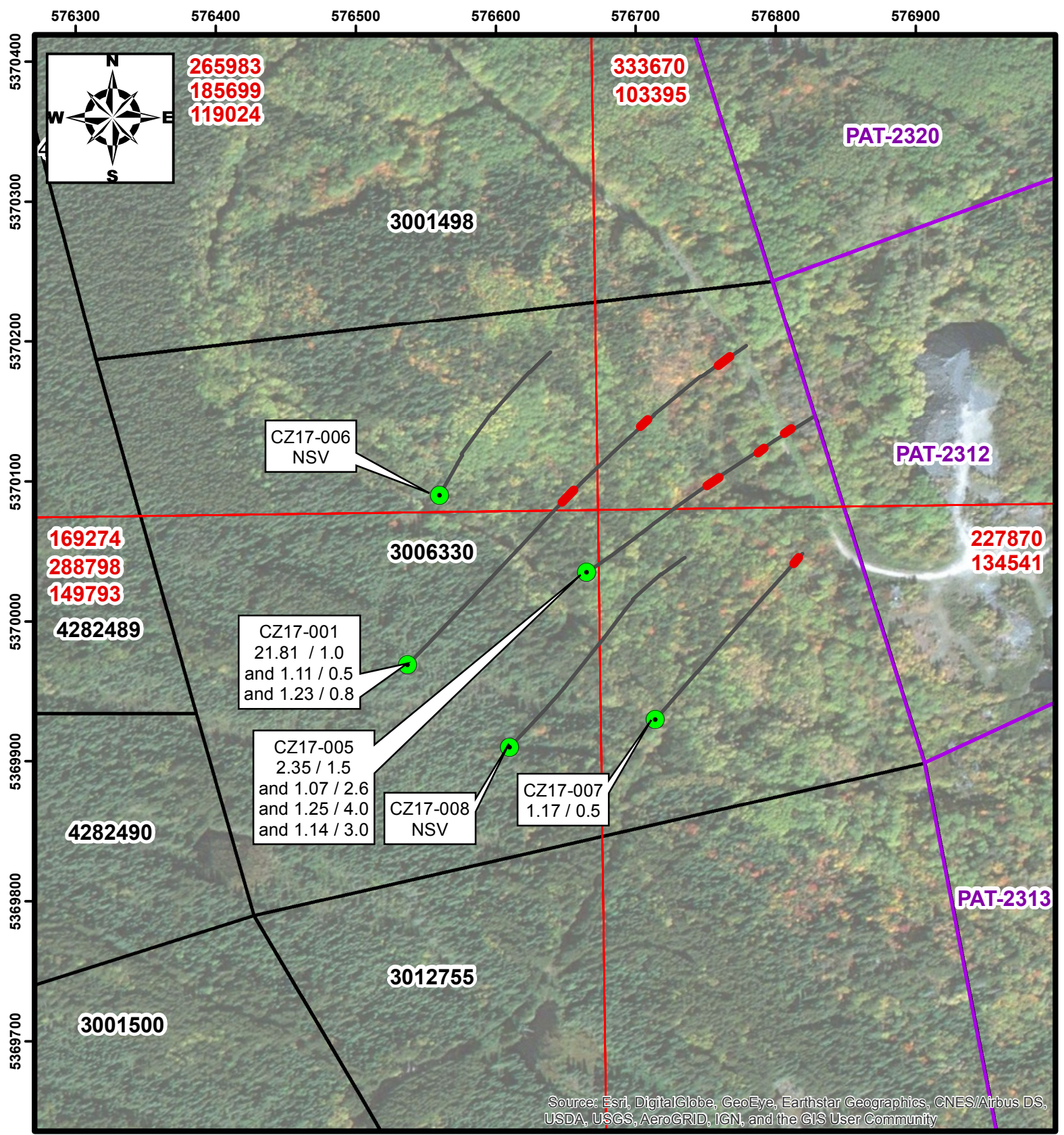
Michael Clarke, P. Geo.





Appendix 1

Figures and Tables



Plan View
Figure 3: Campbell 2017 Drilling

Garrison Township
 Datum: Nad83 Zone 17 September 2017

0 40 80 160 240 320
 Meters

Legend

- Drillhole Collar
- Drillhole Trace
- Significant Assay
- Legacy Claims
- Operational Cells
- Mining Land Tenure

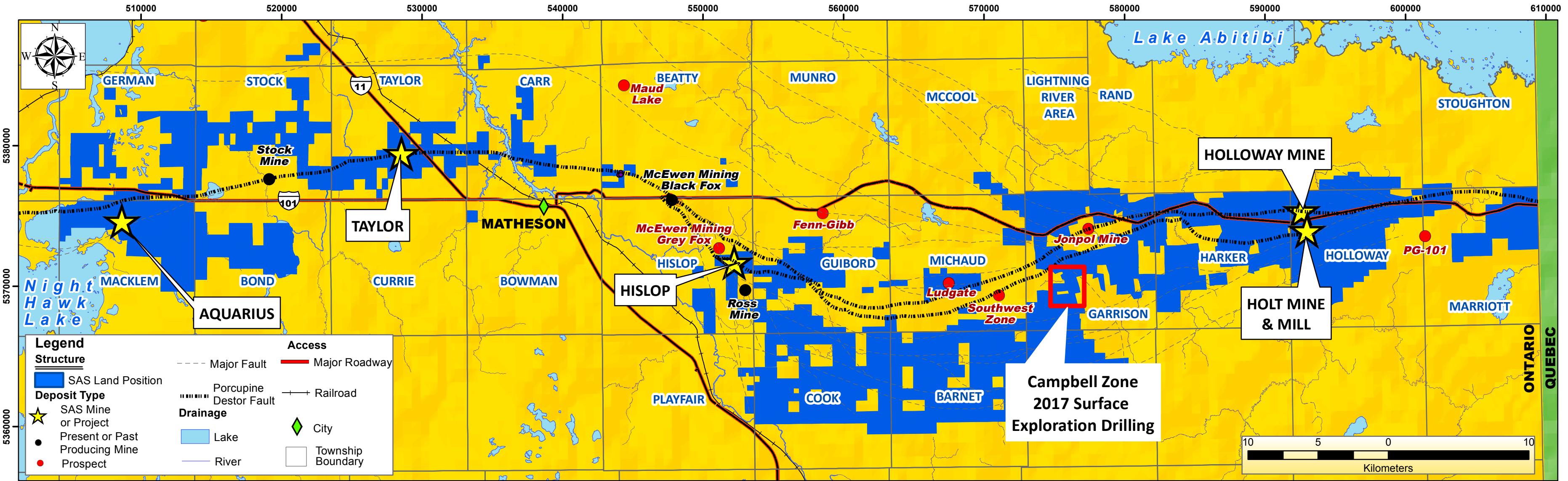


Figure 2: Campbell Zone 2017 Property Location and Access

As of December 2017
Datum: NAD 83 ZONE 17N

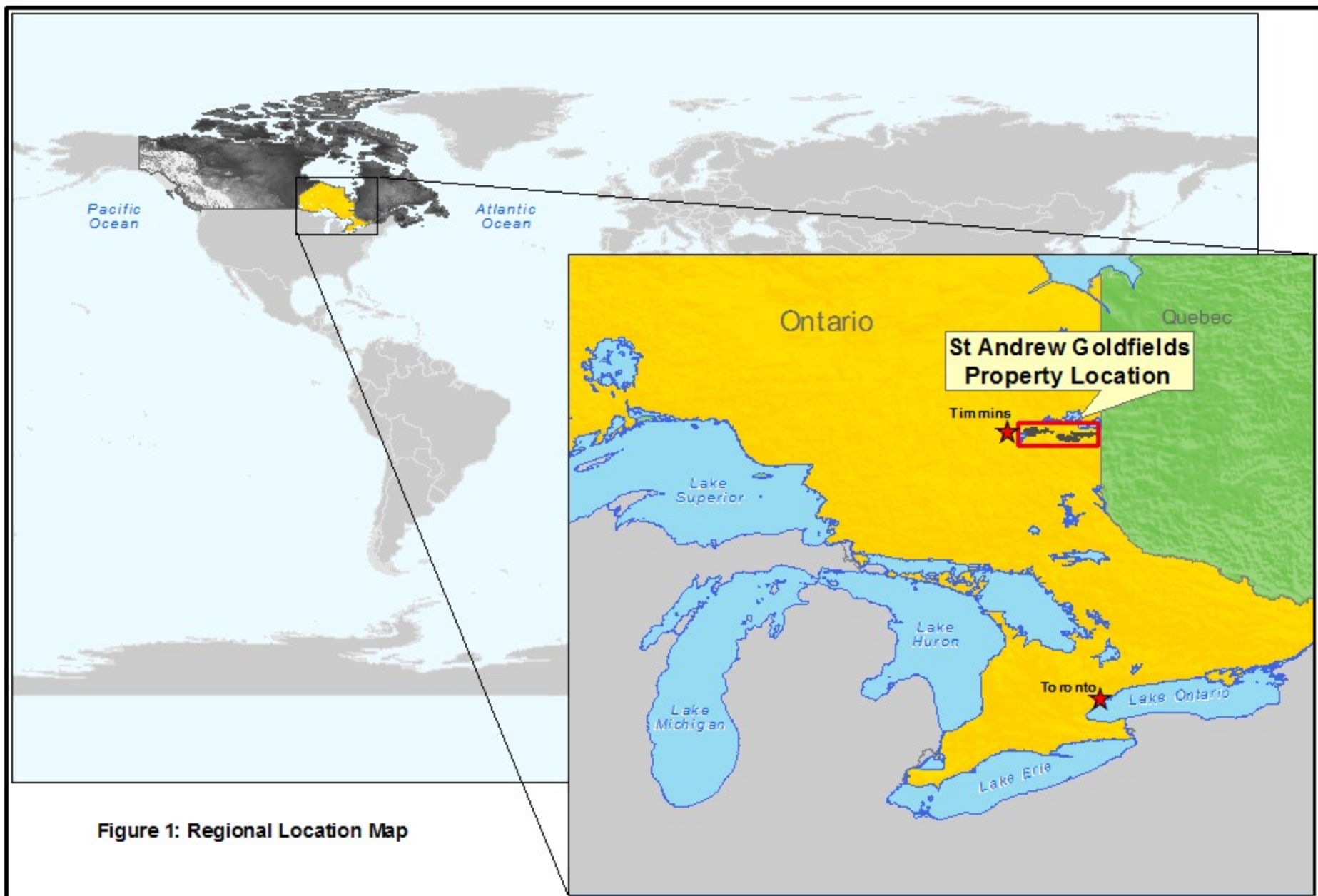


Figure 1: Regional Location Map

Table 2

CAMPBELL ZONE 2017 EXPLORATION ASSAYS HIGHLIGHTS OVER 1 GPT									
BHID	COLLARS - UTM NAD 83 (m)			AZIMUTH	DIP	FROM	TO	CORE LENGTH	UNCUT Au (g/t)
	EASTING	NORTHING	ELEVATION						
CZ17-001	576537	5369969	335	35	-50	249.1	250.1	1.0	21.81
and						361.5	362.0	0.5	1.11
and						477.2	478.0	0.8	1.23
CZ17-005	576665	5370035	340	35	-50	174.4	175.9	1.5	2.35
<i>incl</i>						174.9	175.4	0.5	4.23
and						227.8	230.4	2.6	1.07
and						237.0	241.0	4.0	1.25
<i>incl</i>						237.9	238.9	1.0	3.78
and						267.6	270.6	3.0	1.14
<i>incl</i>						270.0	270.6	0.6	3.33
CZ17-006	576560	5370090	340	35	-50	NO SIGNIFICANT ASSAYS			
CZ17-007	576714	5369930	342	35	-50	245.5	246.0	0.5	1.17
CZ17-008	576610	5369910	335	35	-50	NO SIGNIFICANT ASSAYS			



Appendix 2

Permits

**Exploration Permit/Permis
d'exploration
Number/Numero : PR-17-11096**

This permit is issued under the authority of section 78.3 of the *Mining Act* and the Exploration Plans and Exploration Permits Regulation (O. Reg. 308/12). It is subject to the provisions of the Act and regulation as well as the terms and conditions included in this permit.

Ce permis est émis conformément aux dispositions de section 78.3 de la *Loi sur les mines* et des règlements et est sujet aux restrictions et dispositions de ce lois et règlements ainsi qu'aux conditions ci-énoncées

Note: The issuance of this permit does not relieve the applicant from the responsibility of acquiring any other agency, board, government, etc. approval as may be required nor does it relieve the permittee from the requirements of any other legislation or guarantee access to the land.

Remarque : La délivrance de ce permis n'exempte pas le demandeur de l'obligation d'obtenir l'autorisation de tout autre organisme, commission, gouvernement, etc. qui pourrait être exigée, n'exempte pas le titulaire des dispositions de toute autre loi et ne garantit pas l'accès à la terre.

Project Details/ Détails sur le projet

Project Name/ Titre du projet
Campbell Zone

Qualified Supervisor/Superviseur qualifié
J.V. Bonhomme

This Permit is issued to: Ce Permis est délivré a:

Name of Permittee/Nom du détenteur:

St. Andrews Goldfields Ltd.

Mailing Address/Adresse postale:

To conduct an early exploration activities from/ Pour effectuer des activités d'exploration du (yyyy/mm/dd): **2017/06/22 to: 2020/06/22**

On claim/lease/licence of occupation number(s)/Sur le numéro(s) du claim/bail/permis d'occupation:

3006330

as per your exploration permit application date/conformément a la demande de permis d'exploration en date du: **2017/04/19**

OR

as per your *amended* exploration permit application date/conformément a la demande de permis d'exploration *modifier* en date du:

for the purpose of:

- Mechanized Drilling (assembled weight >150kg)/ Forage mécanisé (poids assemblé >150 kg)
- Mechanized Stripping (>100m² in 200m radius)/ Décapage mécanisé (> 100 m² dans un rayon de 200 m)
- Pitting and Trenching (>3m³ in 200m radius)/ Creusement de fosses et de tranchées (>3 m³ dans un rayon de 200 m)
- Line Cutting (>1.5m width)/ Découpage des quadrillages (<1,5 m de largeur)
- Other (Early exploration activities for which Director has required a permit)/Autre (Activités d'exploration préliminaires pour laquelle le Directeur a demandé un permis):

Subject to the following conditions:/Et sous les conditions suivantes:

1. The Permittee shall keep this permit or a true copy thereof on the permit area./Le détenteur conserver ace permis ou une copie conforme sur les lieux des travaux.
2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the exploration permit area to any inspector whenever requested by the officer./Le responsable des travaux couverts par ce permis doit produire le permis ou sa copie conforme si un inspecteur lui demande.
3. The requirements outlined in Schedule 1 of Ontario Regulation 308/2012 and applicable Provincial Standards for Early Exploration/ Les exigences générales identifier à l'annexe 1 du Règlement de l'Ontario 308/2012 et les normes provinciale relatives a l'exploration préliminaire.
4. Other terms and conditions as listed on this permit./Autres termes et conditions énoncées sur ce permis.

Place of Issue/Emis a:

South Porcupine, ON

Issued by/Emis par:

Director of Exploration, Northeast Region

Date of Issue/Date émis (yyyy/mm/dd, aaaa/mm/jj):

06/22/2017

Signature of Director/Signature du directeur:

Additional Terms and Conditions:

Autre termes et conditions:



Appendix 3

Diamond Drill Logs

DETAILED LOG

*Michael Clarke*Hole Number: **CZ17-001**

Units: METRIC

Project Name: Garrison Township	Primary Coordinates Grid: UTM:NAD83:	Destination Coordinates Grid: UTM:	Collar Dip: -50.00
Project Number: GARRIS_TWP	North: 5369969.00	North:	Collar Az: 35.00
Location: Garrison Township	East: 576537.00	East:	Length: 491.00
	Elev: 335.00	Elev:	Start Depth: 0.00
Date Started: Jul 21, 2017	Collar Survey: N	Plugged: N	Contractor: Asinii
Date Completed: Jul 28, 2017	Multishot Survey: N	Hole Size: NQ	Core Storage: Holt McDermott
	Pulse EM Survey: N	Casing: YES	Final Depth: 491.00

Comments: Very magnetic area - surveys are unreliable - interpreted as best as possible

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	44.10	-48.50	Bruntor	OK	Assumed from first test	42.00	44.10	-48.50	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m
93.00	59.40	-48.40	EZ Sho	DO	LOW MAG	144.00	55.70	-48.00	EZ Sho	DO	LOW MAG
195.00	42.80	-47.40	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m	246.00	51.90	-47.00	EZ Sho	DO	LOW MAG
297.00	62.60	-47.00	EZ Sho	DO	Azimuth corrected 11.1 degrees, pulled back 6m	348.00	61.50	-46.80	EZ Sho	DO	Azimuth corrected 11.1 degrees, pulled back 6m
399.00	49.70	-46.50	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m	450.00	55.30	-46.00	EZ Sho	OK	
490.00	56.20	-45.30	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m, EOH						

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
0.00	30.00	HPO, OVERBURDEN CASING					
30.00	82.90	VMP, VOLCANIC MASSIVE PILLOWED PILLOWED VOLCANICS Bright green to grey-green to black with whitish-grey veinlets throughout Qtz-carb veinlets have weak stockworked and crenulated appearance throughout. Trace to 1% finely disseminated sulphides. Foliation ~60-70 degrees tCa. 54.5-55.5 metres has epidote pillow edge with whitish-grey qtz-carb vein ~60cm in length contained within. Vein has trace sulphides and pervasive albitic threads throughout.	E24342	52.50	54.00	1.50	0.01
			E24343	54.00	54.50	0.50	0.01
			E24344	54.50	55.50	1.00	0.02
			E24345	55.50	56.20	0.70	0.01
			E24346	56.20	57.10	0.90	0.01
			E24347	57.10	58.00	0.90	0.01
			E24349	58.00	59.00	1.00	0.03
			E24350	59.00	59.60	0.60	0.01
			E24351	59.60	61.10	1.50	0.01
82.90	86.50	ZFZ, FAULT ZONE Same as previous unit, albeit with pervasive broken/blocky core. several sub-parallel vuggy slips throughout unit. Upper/lower contacts are jagged and ~30-40 degrees TCA.					

DETAILED LOG

Hole Number: **CZ17-001**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
86.50	115.60	VMP, VOLCANIC MASSIVE PILLOWED PILLOWED VOLCANICS Similar textures and qualities as 30-82.9 metres. Qtz-carb veinlets have weak and sporadic vugging throughout. Lower contact is sharp and ~80 degrees tCA to perpendicular with direction of core.	E24352	114.10	115.60	1.50	0.04
115.60	127.40	ISP, PORPHYRITIC SYENITE SYENITIC PORPHYRY Brown-pink with white-grey and green veinlets throughout. Whitiish feldspar phenocrysts throughout that are angular, ~1-2mm in diameter and brown-pink k-spar matrix supported. Qtz-carb veinlets have weak stockworked and crenulated appearance throughout. Sporadic ~1-3mm wide chloritic joints throughout. Trace to ~1% finely disseminated sulphides. Foliation ~80 degrees tCA to perpendicular with direction of core. Lower contact is sharp and ~50-60 degrees tCa. Sporadic whitish-grey sub-millimetre extensional veinlets throughout trending 30-40 degrees TCA. MINOR INTERVALS: Minor Interval: 118.30 - 119.20 VMP, VOLCANIC MASSIVE PILLOWED Similar to previous VMP. Inferred to be due to possible undulation in surrounding ISP unit.	E24353	115.60	117.00	1.40	0.01
			E24354	117.00	118.30	1.30	0.04
			E24355	118.30	119.20	0.90	0.08
			E24356	119.20	120.00	0.80	0.03
			E24357	120.00	121.00	1.00	0.02
			E24359	121.00	122.00	1.00	0.04
			E24360	122.00	123.00	1.00	0.03
			E24361	123.00	123.90	0.90	0.01
			E24362	123.90	124.90	1.00	0.01
			E24363	124.90	126.00	1.10	0.05
			E24364	126.00	126.80	0.80	0.10
			E24365	126.80	127.40	0.60	0.01
127.40	169.80	VMP, VOLCANIC MASSIVE PILLOWED PILLOWED VOLCANICS Similar textures and composition as 86.5-115.6 metres. Pillow edges are predominantly epidote and sericite and have trace to ~2% finely disseminated sulphides throughout.	E24366	127.40	128.90	1.50	0.02
			E24367	168.30	169.80	1.50	0.01
169.80	173.10	ZFZ, FAULT ZONE Same as previous unit, albeit with pervasive broken/blocky core. Sulphides are finely disseminated with ~1-2%. Upper/lower contacts are sharp and ~70-80 degrees TCA. Sporadic sub-millimetre blue-green serpentinite/asbestos-like veinlets throughout trending ~80 degrees tCA to perpendicular with direction of core.	E24369	169.80	170.30	0.50	0.02
			E24370	170.30	171.00	0.70	0.02
			E24371	171.00	172.00	1.00	0.02
			E24372	172.00	173.10	1.10	0.03
173.10	272.10	VMP, VOLCANIC MASSIVE PILLOWED Same as 127.4-169.8 metres, albeit with weak black-purplish hematite staining throughout. MINOR INTERVALS: Minor Interval: 248.40 - 250.10 VMX, MAFIC BRECCIA Brecciated pillow margin with pervasive brownish sericite and white-grey qtz carb throughout Sulphides are finely disseminated with small, fine-grained clusters throughout with ~2-3%.	E24373	173.10	174.00	0.90	0.01
			E24374	174.00	175.50	1.50	0.01
			E24375	246.00	247.50	1.50	0.01
			E24376	247.50	248.40	0.90	0.04
			E24377	248.40	249.10	0.70	0.10
			E24379	249.10	250.10	1.00	21.81
			E24380	250.10	251.00	0.90	0.09
			E24381	251.00	252.50	1.50	0.09
			E24382	269.00	270.20	1.20	0.02
			E24383	270.20	271.10	0.90	0.02
			E24384	271.10	271.60	0.50	0.01
			E24385	271.60	272.10	0.50	0.00

Hole Number: **CZ17-001**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
272.10	272.80	ZFZ, FAULT ZONE Faulted VMP, Same as 86.50 - 115.60. Gradular UC at 50 -60 degrees TCA following foliation, slightly more hematized, Gradual LC. Quartz sweat @ 272.6m (~5cm) Fine grained bluish grey gouge @ 272.5	E24386	272.10	272.80	0.70	0.03
272.80	282.10	VMV, MAFIC VOLCANIC VARIOLITIC Dark green to green, Dark green greyish green, Lightly sheared, Varioles ranging in size from 2mm to 2cm range sheared along foliation, Foliation ranging from 60 to 70 degrees TCA. Pillow salvages spaced 30cm to 70cm apart with varying widths from 10cm - 30cm, finely disseminated sulphides associated with salvages (~1%). Epidote and sercite alteration, Gradual lower contact at perpendicular TCA. Sporadic sercite/epidote stringers cross cutting foliation perpendicular.	E24387	272.80	273.30	0.50	0.00
			E24389	273.30	273.80	0.50	0.01
			E24390	273.80	274.40	0.60	0.01
			E24391	274.40	275.40	1.00	0.00
282.10	351.00	VMP, VOLCANIC MASSIVE PILLOWED Massive Pillowed Volcanics Dark green to greenish grey, Pillow salvages primarily epidote and sercite with weak hematization ranging in size from 10 cm to 30 cm, becoming less common down unit (spaced from ~ 1m to 3m) Width also decreasing to approx 5 to 10 cm. Sporadic quartz sweats through out cutting across at 50 - 60 degrees TCA with widths varying from 5mm to 3cm, Sporadic Trace Kspar veinlets (2mm-3mm) with sulphide halos around them becoming more prominent moving down unit (~2%). Sulphides occurring locally along pillow salvages and Kspar veinlets at 1-2%. Trace fine disseminated throughout Sharp LC 80 - 90 degrees TCA. 297.3 - 298.1m Quartz sweat cutting across Pillow at 40-50 degrees TCA causing some stocking and minor brecciation.	E24392	349.70	350.20	0.50	0.00
			E24393	350.20	351.00	0.80	0.00
351.00	353.70	VMO, MAFIC VOLCANIC UNDIVIDED Coarser grained, peppered texture with foliation at 60-70 degrees TCA, with kspar/ qtz-carb veinlets cutting perpendicular to foliation 70 to 80- degrees spaced every 5 - 10cm, with halos of 3-5% sulphides.	E24394	351.00	351.50	0.50	0.00
			E24395	351.50	352.00	0.50	0.00
			E24396	352.00	353.00	1.00	0.00
			E24397	353.00	353.70	0.70	0.00
353.70	355.70	ZFZ, FAULT ZONE Faulted VMO, Same as 351- 353.7, Blocky broken, Dark green with reddish hue from kspar/ hematite, weakly magnetic, finegrained gouge, sulphides disseminated throughout trace to 2%	E24399	353.70	354.70	1.00	0.01
			E24400	354.70	355.20	0.50	0.01
			E24401	355.20	356.00	0.80	0.00
355.70	356.00	VMO, MAFIC VOLCANIC UNDIVIDED Same as 351.0-353.7, Calcitic veinlets running 40 to 50 TCA (1-2mm) width graphitic seams running parallel (~1%) Leucoxene overprinting relic mafic pillow, trace disseminated sulphides throughout.					
356.00	360.10	ZFZ, FAULT ZONE Tannish brown to greyish pink. Graphitic/molybdenite slips at 50-60 degrees TCA, Sercite/calcite/kspar alteration, mottled with syenitic sweats. Very sharp UC 50 - 60 degrees TCA and gradual LC at 50 to 60 degrees TCA.	E24402	356.00	356.50	0.50	0.00
			E24403	356.50	357.10	0.60	0.00
			E24404	357.10	357.60	0.50	0.00
			E24405	357.60	358.10	0.50	0.00
			E24406	358.10	358.60	0.50	0.00
			E24407	358.60	359.60	1.00	0.02
			E24409	359.60	360.10	0.50	0.15

Hole Number: **CZ17-001**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
360.10	362.00	<p>VMX, MAFIC BRECCIA</p> <p>Dark green with reddish brown hue, gradual upper contact ~50-60 degrees TCA, lower contact ~50-60 degrees TCA, pervasive sericite and kspar alteration with pinkish brown calcite sweats, disseminated sulphides ~2-3% py along mafic (host rock)-calcite sweat contacts, brecciation contains subangular to subrounded clasts, moderately magnetic.</p> <p>MINOR INTERVALS: Minor Interval: 361.50 - 362.00 ISO, SYENITIC INTRUSIVE SYENITIC INTRUSIVE Foliation oriented ~50-60 degrees TCA, sulphides disseminated throughout core specifically along foliation, pinkish red to purplish red colour, minor hematite and sericitic alteration, 361.8-362m fault gouge containing graphite and molybdenite</p>	E24410	360.10	360.70	0.60	0.04
			E24411	360.70	361.50	0.80	0.06
			E24412	361.50	362.00	0.50	1.11
362.00	367.80	<p>VMO, MAFIC VOLCANIC UNDIVIDED</p> <p>MAFIC VOLCANIC UNDIVIDED Dark greenish grey to grey, weakly brecciated from 367-367.1m, lower contact is gradual at ~60-70 degrees TCA, hematite, epidote with minor sericite alteration, extensional epidote veinlets oriented ~50-60 degrees TCA (1st stage), second stage epidote veinlets oriented ~70-80 degrees TCA, third stage epidote veinlets oriented ~80-90 degrees TCA, sulphides fine to medium disseminated py with localized lenses associated with the first stage extensional epidote veinlets, relic varioled at 366m.</p>	E24413	362.00	362.50	0.50	0.04
			E24414	362.50	363.00	0.50	0.02
			E24415	363.00	363.80	0.80	0.02
			E24416	363.80	364.30	0.50	0.00
			E24417	364.30	365.00	0.70	0.01
			E24419	365.00	366.00	1.00	0.01
			E24420	366.00	366.50	0.50	0.00
			E24421	366.50	367.80	1.30	0.01
367.80	368.70	<p>VMX, MAFIC BRECCIA</p> <p>MAFIC BRECCIA Dark green to light green, relict pillow selvages have light green hue and are spaced ~10cm apart (~5-20cm thick), epidote are sericitic with minor hematitic alteration, lower contact is gradual oriented ~60-70 degrees TCA, sulphides trace finely disseminated py, clast supported breccia, angular to sub-angular clasts</p>	E24422	367.80	368.70	0.90	0.01
368.70	372.00	<p>VMO, MAFIC VOLCANIC UNDIVIDED</p> <p>MAFIC VOLCANIC UNIDIVIDED Similar textures and qualities as previous VMO. Relict pillows and varioles, foliation ~80-90 degrees TCA, epidote extensional veinlets oriented perpendicular to foliation ~70-80 degrees TCA (2mm-7mm thick) with prominence decreasing down hole</p> <p>MINOR INTERVALS: Minor Interval: 370.30 - 370.80 ISO, SYENITIC INTRUSIVE SYENITIC INTRUSIVE Sharp upper and lower contacts ~70-80 degrees TCA, pinkish white with mottled texture, quartz sweats throughout spaced every ~10cm, sulphides trace disseminated py.</p>	E24423	368.70	369.30	0.60	0.00
			E24424	369.30	370.30	1.00	0.03
			E24425	370.30	370.80	0.50	0.00
			E24426	370.80	372.00	1.20	0.01

Hole Number: **CZ17-001**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
372.00	434.90	VMO, MAFIC VOLCANIC UNDIVIDED MAFIC VOLCANIC UNDIVIDED Similar textures and qualities as previous VMO (368.7-372m). Sulphides trace disseminated py with local blebs of py trace-1%, leucoxeme phases out at 377.8m becoming more massive exhibiting VMP like textures, pillow selvages spaced every 4-5m with 5-10cm thick pillow margins, calcitic veinlets oriented ~50-60 degrees TCA (1-4mm thick), gradual lower contact, silicification noted at pillow selvages, syenitic fingers at 382.4m and 372.4m (0.5-1cm thick)	E24427	372.00	372.60	0.60	0.01
			E24429	372.60	373.10	0.50	0.00
			E24430	373.10	373.60	0.50	0.00
			E24431	373.60	374.10	0.50	0.00
			E24432	403.40	404.80	1.40	0.00
			E24433	404.80	405.20	0.40	0.00
			E24434	405.20	406.00	0.80	0.00
			E24435	406.00	406.30	0.30	0.00
			E24436	406.30	407.00	0.70	0.00
			E24437	407.00	408.00	1.00	0.01
			E24439	408.00	408.50	0.50	0.01
			E24440	408.50	410.00	1.50	0.01
			E24441	430.50	432.00	1.50	0.00
			E24442	432.00	433.20	1.20	0.02
			E24443	433.20	434.00	0.80	0.00
			E24444	434.00	434.90	0.90	0.00
434.90	438.90	ZFZ, FAULT ZONE FAULT ZONE (BUFFONTA FAULT?) Dark green to black with isolated whitish veinlets throughout. magnetism noted throughout. Broken blocky core throughout unit with semi-healed sand/gravel fault from 434.9-435.3 metres. Trace sulphides. Lower contact is sharp and ~80 degree tCA to perpendicular with direction of core.	E24445	434.90	435.30	0.40	0.01
			E24446	435.30	436.00	0.70	0.01
			E24447	436.00	437.00	1.00	0.00
			E24449	437.00	438.00	1.00	0.00
			E24450	438.00	438.90	0.90	0.08
438.90	443.70	ZHZ, SHEAR SHEAR ZONE Black-green with whitish-brown and pink veinlets. Heavily silicified and strongly foliated. Whitish-grey stockworked and extensional veinlets throughout unit. Trace to ~1% finely disseminated and occasionally clustered sulphides. Sulphides tend to occur along foliated veinlet perimeters. Foliation ~80 degrees tCA to perpendicular with direction of core. Patches of brown/blocky core, albeit along foliation contacts.	E24451	438.90	440.00	1.10	0.01
			E24452	440.00	441.00	1.00	0.00
			E24453	441.00	442.00	1.00	0.00
			E24454	442.00	443.00	1.00	0.01
			E24455	443.00	443.70	0.70	0.00
443.70	444.40	LLO, LAMPROPHYRE LAMPROPHYRE/KIMBERLITE? Black to black-brown matrix with whitish-grey phenocrysts throughout. Weak evidence of micaceous mineralization present. Weak magnetism noted throughout. Trace disseminated sulphides. Foliation strong and ~80 degrees tCA to perpendicular with direction of core. Weak apparent sub-millimetre chil margin noted along upper/lower contacts. Phenocrysts are typically rounded to sub-rounded, ~1mm in diameter and well matrix supported. Fragmentation of these phenocrysts have similar appearance to fragmented phenocrysts from NZ-series drilling. Due to presence of both Lamprophyres and Kimberlites in association with Syenitic-like intrusions in Garrison/Michaud Townships, this unit could be interpreted as either until further clarification can be made.	E24456	443.70	444.40	0.70	0.00

Hole Number: **CZ17-001**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
444.40	455.40	<p>ZHZ, SHEAR</p> <p>SHEAR ZONE</p> <p>Similar textures and characteristics as 438.9-443.7 metres, albeit with weak purplish hematitic alteration and ptchy syenite (porphyritic) fingers throughout. Sub-millimetre green-grey extensional veinlets noted throughout trending ~40-50 degrees tCa. Foliation ~80 degrees TCA to perpendicular with direction of core.</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>451.30 - 452.20 ISP, PORPHYRITIC SYENITE</p> <p>PORPHYRITIC SYENITE</p> <p>Pink to whitish-grey feldspar with black hornblende/micaceous specks throughout. Trace disseminated sulphides throughout. Foliation ~70-80 degrees tCa.</p> <p>Small patch ZHZ from surrounding unit present from 451.6-451.8 metres.</p>	E24457	444.40	445.00	0.60	0.00
			E24459	445.00	446.00	1.00	0.00
			E24460	446.00	447.00	1.00	0.01
			E24461	447.00	448.40	1.40	0.00
			E24462	448.40	449.00	0.60	0.03
			E24463	449.00	450.00	1.00	0.00
			E24464	450.00	451.30	1.30	0.00
			E24465	451.30	452.20	0.90	0.00
			E24466	452.20	453.00	0.80	0.00
			E24467	453.00	454.50	1.50	0.00
			E24469	454.50	455.40	0.90	0.00
455.40	480.40	<p>ISP, PORPHYRITIC SYENITE</p> <p>SYENITIC PORPHYRY</p> <p>Pinkish-white feldspar with whitish-grey qtz-carb veinlets and patches of green chl/epidote throughout. ~1-2mm 'granular' textures throughout. Sulphides are finely disseminated with isolated fine-grained clusters with trace ~2%. Foliation ~60-70 degrees TCA.</p> <p>Pervasive sub-millimetre later-stage black-green chloritic jointing throughout unit with most distinct trending sub-parallel with direction of core.</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>457.40 - 460.40 VMO, MAFIC VOLCANIC UNDIVIDED</p> <p>Same general qualities and textures as 372.0-434.9 metres, albeit with whitish feldspar with sub-parallel yet undulating contact throughout. Upper/lower contacts are sharp and ~70-80 degrees tCa.</p> <p>Minor Interval:</p> <p>465.90 - 466.60 VMP, VOLCANIC MASSIVE PILLOWED</p> <p>Epidote-rich variant of 457.4-460.4 metres. No k-spar mineralization noted. Upper/lower contacts are sharp and ~80 degrees TCA to perpendicular with direction of core.</p> <p>Minor Interval:</p> <p>477.20 - 478.00 ZHZ, SHEAR</p> <p>SHEAR ZONE</p> <p>Brick-red syenite with pervasive whitish-grey qtz-alb veinlets and brown-green sericitic alteration. 2 episodic shear zones noted ~10cm in width trending ~60-70 degrees TCA. Based on colouration and seemingly 'layered' appearance of whitish to whitish-grey qtz-alb veining, it appears at least 2 separate episodes of shearing have occurred. These are crosscut by crenulated and weakly jagged sub-millimetre trending roughly sub-parallel in orientation. ~2% fine-grained to clustered sulphides are associated with these shear episodes. Upper contact is distinct and ~60-70 degrees tCa.</p>	E24470	455.40	456.40	1.00	0.00
			E24471	456.40	457.40	1.00	0.00
			E24472	457.40	458.00	0.60	0.00
			E24473	458.00	459.20	1.20	0.00
			E24474	459.20	459.90	0.70	0.00
			E24475	459.90	460.40	0.50	0.01
			E24476	460.40	461.00	0.60	0.01
			E24477	461.00	462.00	1.00	0.01
			E24479	462.00	463.00	1.00	0.00
			E24480	463.00	464.00	1.00	0.01
			E24481	464.00	465.00	1.00	0.01
			E24482	465.00	465.90	0.90	0.01
			E24483	465.90	466.60	0.70	0.02
			E24484	466.60	468.00	1.40	0.01
			E24485	468.00	469.00	1.00	0.08
			E24486	469.00	470.00	1.00	0.06
			E24487	470.00	471.00	1.00	0.08
			E24489	471.00	472.00	1.00	0.33
			E24490	472.00	473.00	1.00	0.01
			E24491	473.00	474.00	1.00	0.03
			E24492	474.00	474.90	0.90	0.09
			E24493	474.90	475.40	0.50	0.23
			E24494	475.40	476.10	0.70	0.69
			E24495	476.10	477.20	1.10	0.13
			E24496	477.20	478.00	0.80	1.23
			E24497	478.00	479.00	1.00	0.08
			E24499	479.00	479.90	0.90	0.01
			E24500	479.90	480.40	0.50	0.55

Hole Number: **CZ17-001**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
480.40	491.00	ZHZ, SHEAR SHEAR ZONE Similar textures and qualities as 438.9-443.7 metres, albeit with isolated and reworked porphyritic veinlets as per previous offset by sub-millimetre chloritic jointing ~1-2cm sub-parallel with direction of core. Folaition ~50-70 degrees TCa as per veinlets. MINOR INTERVALS: Minor Interval: 483.50 - 484.20 ISP, PORPHYRITIC SYENITE SYENITIC PORPHYRY Similar textures and qualities as 455.4-480.4 metres.	E24501	480.40	481.10	0.70	0.14
			E24502	481.10	482.00	0.90	0.01
			E24503	482.00	482.60	0.60	0.01
			E24504	482.60	483.50	0.90	0.03
			E24505	483.50	484.20	0.70	0.01
			E24506	484.20	485.20	1.00	0.02
			E24507	485.20	486.00	0.80	0.07
			E24509	486.00	487.10	1.10	0.02
			E24510	487.10	488.20	1.10	0.02
			E24511	488.20	489.20	1.00	0.40
			E24512	489.20	490.10	0.90	0.10
			E24513	490.10	491.00	0.90	0.01

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24342	52.50	54.00	0.0100
E24343	54.00	54.50	0.0070
E24344	54.50	55.50	0.0220
E24345	55.50	56.20	0.0090
E24346	56.20	57.10	0.0110
E24347	57.10	58.00	0.0070
E24349	58.00	59.00	0.0260
E24350	59.00	59.60	0.0120
E24351	59.60	61.10	0.0110
E24352	114.10	115.60	0.0350
E24353	115.60	117.00	0.0140
E24354	117.00	118.30	0.0410
E24355	118.30	119.20	0.0780
E24356	119.20	120.00	0.0270
E24357	120.00	121.00	0.0220
E24359	121.00	122.00	0.0410
E24360	122.00	123.00	0.0310
E24361	123.00	123.90	0.0100
E24362	123.90	124.90	0.0110
E24363	124.90	126.00	0.0500
E24364	126.00	126.80	0.1010
E24365	126.80	127.40	0.0090
E24366	127.40	128.90	0.0170
E24367	168.30	169.80	0.0130

Hole Number: **CZ17-001**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24369	169.80	170.30	0.0210
E24370	170.30	171.00	0.0240
E24371	171.00	172.00	0.0150
E24372	172.00	173.10	0.0330
E24373	173.10	174.00	0.0100
E24374	174.00	175.50	0.0120
E24375	246.00	247.50	0.0100
E24376	247.50	248.40	0.0380
E24377	248.40	249.10	0.0990
E24379	249.10	250.10	21.8100
E24380	250.10	251.00	0.0870
E24381	251.00	252.50	0.0920
E24382	269.00	270.20	0.0170
E24383	270.20	271.10	0.0190
E24384	271.10	271.60	0.0050
E24385	271.60	272.10	0.0025
E24386	272.10	272.80	0.0270
E24387	272.80	273.30	0.0025
E24389	273.30	273.80	0.0120
E24390	273.80	274.40	0.0060
E24391	274.40	275.40	0.0025
E24392	349.70	350.20	0.0025
E24393	350.20	351.00	0.0025
E24394	351.00	351.50	0.0025
E24395	351.50	352.00	0.0025
E24396	352.00	353.00	0.0025
E24397	353.00	353.70	0.0025
E24399	353.70	354.70	0.0070
E24400	354.70	355.20	0.0080
E24401	355.20	356.00	0.0025
E24402	356.00	356.50	0.0025
E24403	356.50	357.10	0.0025
E24404	357.10	357.60	0.0025
E24405	357.60	358.10	0.0025
E24406	358.10	358.60	0.0025
E24407	358.60	359.60	0.0150
E24409	359.60	360.10	0.1470
E24410	360.10	360.70	0.0370
E24411	360.70	361.50	0.0600

Hole Number: **CZ17-001**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24412	361.50	362.00	1.1120
E24413	362.00	362.50	0.0360
E24414	362.50	363.00	0.0150
E24415	363.00	363.80	0.0190
E24416	363.80	364.30	0.0025
E24417	364.30	365.00	0.0060
E24419	365.00	366.00	0.0090
E24420	366.00	366.50	0.0025
E24421	366.50	367.80	0.0070
E24422	367.80	368.70	0.0110
E24423	368.70	369.30	0.0025
E24424	369.30	370.30	0.0330
E24425	370.30	370.80	0.0025
E24426	370.80	372.00	0.0130
E24427	372.00	372.60	0.0080
E24429	372.60	373.10	0.0025
E24430	373.10	373.60	0.0025
E24431	373.60	374.10	0.0025
E24432	403.40	404.80	0.0025
E24433	404.80	405.20	0.0025
E24434	405.20	406.00	0.0025
E24435	406.00	406.30	0.0025
E24436	406.30	407.00	0.0025
E24437	407.00	408.00	0.0100
E24439	408.00	408.50	0.0060
E24440	408.50	410.00	0.0090
E24441	430.50	432.00	0.0025
E24442	432.00	433.20	0.0180
E24443	433.20	434.00	0.0025
E24444	434.00	434.90	0.0025
E24445	434.90	435.30	0.0060
E24446	435.30	436.00	0.0110
E24447	436.00	437.00	0.0025
E24449	437.00	438.00	0.0025
E24450	438.00	438.90	0.0780
E24451	438.90	440.00	0.0080
E24452	440.00	441.00	0.0025
E24453	441.00	442.00	0.0025
E24454	442.00	443.00	0.0060

Hole Number: **CZ17-001**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24455	443.00	443.70	0.0025
E24456	443.70	444.40	0.0025
E24457	444.40	445.00	0.0025
E24459	445.00	446.00	0.0025
E24460	446.00	447.00	0.0080
E24461	447.00	448.40	0.0025
E24462	448.40	449.00	0.0280
E24463	449.00	450.00	0.0025
E24464	450.00	451.30	0.0025
E24465	451.30	452.20	0.0025
E24466	452.20	453.00	0.0025
E24467	453.00	454.50	0.0025
E24469	454.50	455.40	0.0025
E24470	455.40	456.40	0.0025
E24471	456.40	457.40	0.0025
E24472	457.40	458.00	0.0025
E24473	458.00	459.20	0.0025
E24474	459.20	459.90	0.0025
E24475	459.90	460.40	0.0100
E24476	460.40	461.00	0.0060
E24477	461.00	462.00	0.0060
E24479	462.00	463.00	0.0025
E24480	463.00	464.00	0.0070
E24481	464.00	465.00	0.0070
E24482	465.00	465.90	0.0090
E24483	465.90	466.60	0.0190
E24484	466.60	468.00	0.0080
E24485	468.00	469.00	0.0770
E24486	469.00	470.00	0.0600
E24487	470.00	471.00	0.0800
E24489	471.00	472.00	0.3290
E24490	472.00	473.00	0.0090
E24491	473.00	474.00	0.0260
E24492	474.00	474.90	0.0850
E24493	474.90	475.40	0.2270
E24494	475.40	476.10	0.6890
E24495	476.10	477.20	0.1320
E24496	477.20	478.00	1.2340
E24497	478.00	479.00	0.0780

Hole Number: **CZ17-001**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24499	479.00	479.90	0.0060
E24500	479.90	480.40	0.5470
E24501	480.40	481.10	0.1390
E24502	481.10	482.00	0.0090
E24503	482.00	482.60	0.0080
E24504	482.60	483.50	0.0340
E24505	483.50	484.20	0.0080
E24506	484.20	485.20	0.0230
E24507	485.20	486.00	0.0650
E24509	486.00	487.10	0.0220
E24510	487.10	488.20	0.0200
E24511	488.20	489.20	0.4010
E24512	489.20	490.10	0.1010
E24513	490.10	491.00	0.0120

DETAILED LOG

*Michael Clarke*Hole Number: **CZ17-005**

Units: METRIC

Project Name: Garrison Township	Primary Coordinates Grid: UTM:NAD83:	Destination Coordinates Grid: UTM:	Collar Dip: -50.00
Project Number: GARRIS_TWP	North: 5370035.00	North:	Collar Az: 35.00
Location: Garrison Township	East: 576665.00	East:	Length: 300.00
	Elev: 340.00	Elev:	Start Depth: 0.00
Date Started: Jul 18, 2017	Collar Survey: N	Plugged: N	Contractor: Asinii
Date Completed: Jul 20, 2017	Multishot Survey: N	Hole Size: NQ	Core Storage: Holt McDermott
	Pulse EM Survey: N	Casing: YES	Final Depth: 300.00

Comments: Very magnetic area - surveys unreliable - dealt with as best as possible.

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	55.40	-50.30	EZ Sho	OK	Assumed from first test	21.00	55.40	-50.30	EZ Sho	OK	Azimuth corrected by 11.1 degrees, pulled back 6m
72.00	52.50	-49.90	EZ Sho	OK	Azimuth corrected by 11.1 degrees, pulled back 6m	123.00	53.90	-49.60	EZ Sho	OK	Azimuth corrected by 11.1 degrees, pulled back 6m
174.00	55.60	-49.00	EZ Sho	OK	Azimuth corrected by 11.1 degrees, pulled back 6m	225.00	72.60	-48.50	EZ Sho	DO	Azimuth corrected by 11.1 degrees, pulled back 6m
276.00	58.50	-48.30	EZ Sho	OK		300.00	26.10	-48.00	EZ Sho	DO	Azimuth corrected by 11.1 degrees, pulled back 6m

Detailed Lithology

From		To	Lithology	Assay Data				
From		To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
0.00	9.70		HPO, OVERBURDEN No recovery till 8.9m. From 8.9 to 9.70m mixed in granitic/dioritic boulders at width of 5- 7m.	E24136	9.40	10.50	1.10	0.00
9.70	15.90		VMP, VOLCANIC MASSIVE PILLOWED Dark greek to olive, aphanitic, moderately magnetic, Pillow salvages 5 - 7cm in width, with epidote alteration and sericite, trace to 1% sulphides associated with sercitic alteration. Kspar extensional fractures sporadic through out (~2mm) cutting across at 40 to 50 degrees TCA, with some being epidote instead of kspar. Episodic Calcite veinlets cutting across perpendicular to TCA and cross cutting Kspar and epidote fractures. MINOR INTERVALS: Minor Interval: 10.50 - 10.80 QVC, QUARTZ CARBONATE VEINS Milky Quartz/carb vein, sharp LC/UC at 30-40 degrees TCA. Some Varilioles at lower contact (~1cm).	E24137	10.50	11.00	0.50	0.00
				E24139	11.00	11.60	0.60	0.00
				E24140	11.60	12.60	1.00	0.00
				E24141	12.60	13.10	0.50	0.02
				E24142	13.10	14.60	1.50	0.00
				E24143	14.60	15.40	0.80	0.00
				E24144	15.40	15.90	0.50	0.11
15.90	19.50		ZFZ, FAULT ZONE Faulted VMP same as before, Dark Green, vuggy, blocky, calcite crystalization, pyrite minerals at ~5mm, appears to be broken at 30-40 degrees ,	E24145	15.90	16.50	0.60	0.32
				E24146	16.50	17.20	0.70	0.04
				E24147	17.20	18.00	0.80	0.00
				E24149	18.00	18.50	0.50	0.12
				E24150	18.50	19.00	0.50	0.15
				E24151	19.00	19.50	0.50	0.00

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
19.50	31.30	VMP, VOLCANIC MASSIVE PILLOWED Dark green, magnetic, predominately VMP, aphanitic, dark green with pillow salvages spaced, 20cm -1m apart with widths varying from 5cm to 50cm., Salvages predominately epidote/chlorite with some kspar and hematite staining. Trace Qtz/carb stringers cross cutting at perpendicular becoming less prominent down unit, Epidote extensional fracture infills (2mm -3mm) 50 to 60 and perpendicular tCA becoming more prominent moving down zone. Coarse disseminated sulphides 2% occurring at 1% at Qtz/carb, epidote cross cutting each other. 28.1m-28.2m- Slight shearing, 40-50 degrees tca, foliation marked by preferential alignment of sulphides, calcite.	E24152	19.50	20.00	0.50	0.00
			E24153	20.00	20.70	0.70	0.00
			E24154	20.70	21.70	1.00	0.01
			E24155	27.20	28.20	1.00	0.00
			E24156	28.20	28.70	0.50	0.01
			E24157	28.70	29.50	0.80	0.00
			E24159	29.50	30.00	0.50	0.00
			E24160	30.00	30.80	0.80	0.01
			E24161	30.80	31.30	0.50	0.01
31.30	33.80	ZHZ, SHEAR Dark green greyish green, Sheared VMV, Varioles ranging in size from 2mm to 5cm range, Foliation ranging from 50 to 60 degrees TCA. Epidote and sercite alteration, throughout zone. With sercite stringers with ribbon texture cutting across perpendicular TCA. Sulphidization occurring along Sercite stringers (trace to 1%) Gradual LC at 50 to 60 degrees TCA	E24162	31.30	31.80	0.50	0.00
			E24163	31.80	32.30	0.50	0.00
			E24164	32.30	33.00	0.70	0.00
			E24165	33.00	33.80	0.80	0.00
33.80	47.30	VMV, MAFIC VOLCANIC VARIOLITIC Dark green to green, Dark green greyish green, Lightly sheared, Varioles ranging in size from 2mm to 2cm range, Foliation ranging from 50 to 60 degrees TCA. Pillow salvages spaced 30cm to 70cm apart with varying widths from 10cm - 30cm, finely disseminated sulphides associated with salvages. Epidote and sercite alteration, throughout zone with some kspar alteration and hematite staining towards top of unit becoming less prominent towards end. Sharp lower contact at 20- 30degrees TCA. MINOR INTERVALS: Minor Interval: 41.70 - 47.30 VMP, VOLCANIC MASSIVE PILLOWED Varioles becoming less prominent, with unit becoming more massive, epidote extensional veining crosscutting at 60 to 70 degrees TCA, then becoming calc infilled moving down unit.	E24166	33.80	34.30	0.50	0.00
			E24167	34.30	35.50	1.20	0.00
			E24169	35.50	36.00	0.50	0.01
			E24170	36.00	36.50	0.50	0.00
			E24171	36.50	37.00	0.50	0.02
			E24172	45.60	46.10	0.50	0.00
			E24173	46.10	46.60	0.50	0.00
			E24174	46.60	47.30	0.70	0.00
47.30	48.60	QBX, QUARTZ BRECCIA Dark green mafic clasts, little kspar clasts (~1cm) with milky quartz matrix, mafic clasts sub angular- sub rounded, clasts size 5mm to 1.5cm, from 47.3 to 47.5m appears quartz have infilled varioles, trace sulphides throughout, sharp LC at 50 - 60 degrees. some epidote and kspar alteration in the around the mafic clasts.	E24175	47.30	48.60	1.30	0.00
48.60	49.90	ZHZ, SHEAR Sheared VMP, Dark green with bright epidote with some having carb fracture infills cross cutting at 40 - 50 degrees TCA (~2mm-3mm), rhythmic epidote/kspar stringers cross cutting at 40 to 50 degrees TCA spaced 20-30 cm apart with widths ~ 5mm, Gradual lower contact at 30 to 40 degrees TCA. Trace sulphides throughout.	E24176	48.60	49.10	0.50	0.00
			E24177	49.10	49.90	0.80	0.00
49.90	50.80	VMX, MAFIC BRECCIA dark green with white matrix, Clast supported, sub angular 2cm - 5cm, calcitic matrix cross cutting perpendicular to 30- 40 TCA, Some epidote/sercite alteration in stringers. Trace sulphides throughout	E24179	49.90	50.80	0.90	0.00

DETAILED LOG

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
50.80	68.40	VMP, VOLCANIC MASSIVE PILLOWED Dark green, pillows are green with pink tone, Pillows are 5 - 7cm in width with separation varying from 30 to 50 cm apart. Pillows salvages are mainly altered with epidote with sercite alteration in center with bleaching (albitic?) halos around. Epidote tensional fractures crosscutting at 50 to 60 TCA and calcite fractures (~2mm) which become less prominent down unit, Epidote fractures becoming associated with sulphide halos around them starting at 58.3m. Trace sulphides throughout locally disseminated 1 -2 %, pillows are becoming more sercitic. Gradual lower contact at 50-60 degrees TCA Starting at 58.3 sporadic kspar stringers crosscutting at 50 to 60 TCA @ 63.6 quartz/ankertite veilet cross cutting at 50 - 60 degrees, 4-5 cm with halo of sulphides -1- 2 %	E24180	50.80	51.40	0.60	0.00
			E24181	51.40	52.40	1.00	0.00
			E24182	52.40	52.90	0.50	0.00
			E24183	66.40	66.90	0.50	0.00
			E24184	66.90	67.90	1.00	0.00
			E24185	67.90	68.40	0.50	0.00
68.40	68.90	VMX, MAFIC BRECCIA dark green with white matrix, Clast supported, sub angular 2cm - 5cm, calcitic matrix cross cutting perpendicular to 30- 40 TCA, Some epidote/sercite alteration in stringers. Trace - 1% disseminated sulphides throughout	E24186	68.40	68.90	0.50	0.01
68.90	76.60	VMP, VOLCANIC MASSIVE PILLOWED Same as 50.8m-68.4m, Becoming lightly sheared starting at 75.4m foliation 60 to 70 degrees TCA some bleaching occurring. Hematite alteration occurring in pillow salvages around sercite.	E24187	68.90	69.70	0.80	0.03
			E24189	69.70	70.20	0.50	0.01
			E24190	70.20	70.70	0.50	0.01
			E24191	74.40	74.90	0.50	0.02
			E24192	74.90	75.40	0.50	0.02
			E24193	75.40	76.10	0.70	0.01
			E24194	76.10	76.60	0.50	0.02
76.60	87.30	ISO, SYENITIC INTRUSIVE Pinkish-brown syenite with whitish-grey qtz-alb veinlets/sweats throughout. Dark green chlorite patchy. Whitish sub-rounded to sub-angular feldspar phenocrysts pervasive and supported by surrounding brown-pink syenite. Qtz-carb fractures pervasive throughout cross cutting at 50 to 60 TCA with reddish brown halo around. Trace fine-grained and disseminated sulphides throughout. Sharp LCA cutting at 50 - 60 degrees.	E24195	76.60	77.10	0.50	0.14
			E24196	77.10	77.60	0.50	0.10
			E24197	77.60	78.30	0.70	0.09
			E24199	78.30	79.30	1.00	0.28
			E24200	79.30	79.80	0.50	0.06
			E24201	79.80	80.30	0.50	0.21
			E24202	80.30	81.00	0.70	0.02
			E24203	81.00	82.00	1.00	0.03
			E24204	82.00	82.50	0.50	0.15
			E24205	82.50	83.00	0.50	0.01
			E24206	83.00	83.90	0.90	0.01
			E24207	83.90	84.40	0.50	0.01
			E24209	84.40	85.20	0.80	0.03
			E24210	85.20	86.20	1.00	0.08
			E24211	86.20	86.70	0.50	0.08
			E24212	86.70	87.30	0.60	0.11

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
87.30	91.80	ZHZ, SHEAR Sheared VMV, Dark green with bands of whitish pink/brown, foliation at 60 to 70 degrees TCA, foliation 2mm- 3mm, foliation marked by bands of dark mineral and albite, Sulphide disseminated inbetween foliation and along cross cutting fractures of carb/sulphides (1% -2%). Syenitic fingers sporadic throughout (~2cm width), sporadic quartz veins throughout ranging in size from 1cm to 5cm) alteration occurring on edges including chlorite and albite with disseminated sulphides. Gradual	E24213	87.30	87.90	0.60	0.05
			E24214	87.90	88.90	1.00	0.02
			E24215	88.90	89.40	0.50	0.02
			E24216	89.40	90.00	0.60	0.01
			E24217	90.00	90.70	0.70	0.03
			E24219	90.70	91.80	1.10	0.03
91.80	119.90	VMV, MAFIC VOLCANIC VARIOLITIC Dark green to green, Dark green greyish green, Lightly sheared, Varioles ranging in size from 2mm to 2cm range sheared along foliation, Foliation ranging from 60 to 70 degrees TCA. Pillow salvages spaced 30cm to 70cm apart with varying widths from 10cm - 30cm, finely disseminated sulphides associated with salvages. Epidote and sericite alteration, Sharp lower contact at perpendicular TCA. Sporadic sericite/epidote stringers cross cutting foliation perpendicular. @99.0 - 99.20 Sericite/ Kspar alteration with finely disseminated sulphides 2- 3% MINOR INTERVALS: Minor Interval: 102.70 - 103.20 ZHZ, SHEAR Bluish green, with white alteration. Foliation prominent at 70-80 degrees tca. Bluish tinge to core with epidote alteration and albitic alteration. Kspar stringer with epidote halo cross cutting at 0 degrees TCA	E24220	91.80	92.30	0.50	0.01
			E24221	92.30	93.00	0.70	0.02
			E24222	93.00	93.50	0.50	0.01
			E24223	93.50	94.20	0.70	0.01
			E24224	94.20	94.90	0.70	0.01
			E24225	94.90	95.60	0.70	0.01
			E24226	95.60	96.20	0.60	0.01
			E24227	96.20	97.60	1.40	0.01
			E24229	97.60	98.60	1.00	0.01
			E24230	98.60	99.10	0.50	0.03
			E24231	99.10	100.30	1.20	0.01
			E24232	100.30	101.30	1.00	0.01
			E24233	101.30	102.00	0.70	0.01
			E24234	102.00	102.70	0.70	0.01
			E24235	102.70	103.20	0.50	0.10
			E24236	103.20	103.70	0.50	0.04
			E24237	103.70	104.40	0.70	0.01
			E24239	104.40	105.00	0.60	0.01
			E24240	105.00	105.90	0.90	0.02
			E24241	105.90	106.90	1.00	0.01
			E24242	117.90	118.90	1.00	0.01
			E24243	118.90	119.40	0.50	0.02
			E24244	119.40	119.90	0.50	0.02
119.90	120.40	QVO, QUARTZ VEINS Milky quartz with sericite/epidote alteration on contacts, Sharp lower contact 80 - 90 TCA. trace sulphides through out with locally disseminated at contacts 1 -2 %.	E24245	119.90	120.40	0.50	0.04
120.40	122.70	VMV, MAFIC VOLCANIC VARIOLITIC Same as 91.8 - 119.0, Gradual LC at 60 - 70 degrees TCA, becoming more massive.	E24246	120.40	120.90	0.50	0.02
			E24247	120.90	121.60	0.70	0.02
			E24249	121.60	123.00	1.40	0.04

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
122.70	154.70	<p>VMP, VOLCANIC MASSIVE PILLOWED</p> <p>Dark green, aphanitic, moderately magnetic, pillows salvages mainly sericite, kspar alteration with chlorite and hematite alteration staining, Some blue tinge mineralization occurring. Pillows becoming more epidote rich moving down unit, salvages are 10-30 cm in width, spaced 30cm - 50cm apart. Starting at 144m sporadic qtz-carb stringers running 80 to 90 degrees TCA, epidote extensional infills cross cutting at 40-50 degrees TCA cross cutting eachother, becoming more prominate moving down unit. Trace to 1% fine disseminated sulphides associated pillow salvages around epidote alteration</p> <p>MINOR INTERVALS: Minor Interval: 126.50 - 135.00 VMV, MAFIC VOLCANIC VARIOLITIC Dark with to whitish brown, local varioles infilled sercite (5mm -1cm) trace sulphides associated sercite, sercite stringers with chlorite halos running 40- 50 TCA occurring in pairs space ~40cm apart.</p>	E24250	153.00	153.70	0.70	0.02
			E24251	153.70	154.20	0.50	0.04
			E24252	154.20	154.70	0.50	0.13
154.70	166.00	<p>QBX, QUARTZ BRECCIA</p> <p>Quartz/carb breccia Milky quarts with light greenish tinge, starts out as clast supported (Clasts being 5mm to 3cm in size made of epidote spillover salvages, sub-rounded to subangular gradually becoming more matrix supported with clast size increasing to 5cm to 10cm, epidote alteration predominately with some patchy kspar (toward beginning of unit)Fine disseminated sulphides throughout (Trace to 2%) Appears to be tourmaline mineralization starting at 155.4 cross cutting brecciation at 40-50 degrees TCA. Possibly showing multiple events. Sharp LC and UC at 70 - 80 degrees.</p>	E24253	154.70	155.50	0.80	0.07
			E24254	155.50	156.00	0.50	0.18
			E24255	156.00	156.50	0.50	0.03
			E24256	156.50	157.00	0.50	0.03
			E24257	157.00	158.00	1.00	0.02
166.00	174.40	<p>VMO, MAFIC VOLCANIC UNDIVIDED</p> <p>Dark Green to Olive green, moderately magnetic, alternating between fine grained to coarse grained. Chlorite, epidote and qtz-calc fractures infills pervasive spaced every 1 - 5 cm apart. Leucoxene .Pillow edges/salvages are primarily epidote with minor qtz-carb veining, between ~5cm-10cm in width and are variably rhythmic in spacing from ~50cm-3m. Finely disseminated sulphides throughout with sporadic fine-grained clusters with trace to ~1% (locally 1-2%) along epidote alteration. Foliation ~50- 60 degrees tCA. Epidote fractures becoming less prominate @ 172.1m being replaced by calc infills crosscutting at 50- 60 degrees. Small varolitic pockets 169.1m to 170.2 spaced 15cm apart Sharp LC at 50-60 degrees</p>	E24259	170.10	171.10	1.00	0.01
			E24260	171.10	172.10	1.00	0.01
			E24261	172.10	172.90	0.80	0.01
			E24262	172.90	173.40	0.50	0.02
			E24263	173.40	173.90	0.50	0.31
			E24264	173.90	174.40	0.50	0.05
174.40	175.90	<p>VMX, MAFIC BRECCIA</p> <p>Heavily altered healed VMX, Green to greyish pink, chlorite, kspar. Some black mineralization within qtz (biotite?) Foliation going 50 to 60 degrees, clast supported, dissminated sulphides 5- 7%, VG at 175.4m hosted Milkly quartz veinlet 4 - 5cm in width cross cutting at 50 - 60 degress TCA. smaller 1cm- 2cm quartz cross cutting at 50 to 60 degrees.</p>	E24265	174.40	174.90	0.50	0.86
			E24266	174.90	175.40	0.50	4.23
			E24267	175.40	175.90	0.50	1.96

DETAILED LOG

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
175.90	185.10	VMO, MAFIC VOLCANIC UNDIVIDED Same as 166.0m - 175.8, Extensional infills less prominent, Pillow salvages are 2 - 3 cm in width and occur near bottom of zone, varioles appear at 182.2 and in 15cm width.	E24269	175.90	176.40	0.50	0.04
			E24270	176.40	177.00	0.60	0.03
			E24271	177.00	177.60	0.60	0.02
			E24272	183.30	184.10	0.80	0.01
			E24273	184.10	184.60	0.50	0.04
			E24274	184.60	185.10	0.50	0.01
185.10	190.00	ZHZ, SHEAR Sheared pillow/ varioles Dark greenish white, Foliation 60-70 degrees TCA, chlorite/albitic alteration Sharp UC at 60 to 70 degrees TCA. Gradual LC becoming prominent dark green. Tracesulphides disseminated throughout locally 1% inbetween foliation. MINOR INTERVALS: Minor Interval: 187.00 - 188.30 VMO, MAFIC VOLCANIC UNDIVIDED Same as 175.8m -185.1m but more massive and no pillow salvages or varioles	E24275	185.10	185.60	0.50	0.01
			E24276	185.60	186.10	0.50	0.01
			E24277	186.10	187.00	0.90	0.01
			E24279	187.00	187.50	0.50	0.01
			E24280	187.50	188.40	0.90	0.01
			E24281	188.40	189.00	0.60	0.01
			E24282	189.00	189.50	0.50	0.01
			E24283	189.50	190.00	0.50	0.01
190.00	230.40	VMO, MAFIC VOLCANIC UNDIVIDED Dark Green to Olive green, moderately magnetic, fine grained. Pillow edges/salvages are primarily hematite with epidote alteration halos, Finely disseminated sulphides throughout with sporadic fine-grained clusters with trace to ~1% (locally 1-2%) along epidote alteration. Extensional epidote veining cross cutting at 50-60 degrees	E24284	190.00	190.50	0.50	0.01
			E24285	190.50	191.00	0.50	0.01
			E24286	191.00	191.60	0.60	0.01
			E24287	227.80	229.30	1.50	0.66
			E24289	229.30	230.40	1.10	1.64
230.40	238.40	VMX, MAFIC BRECCIA Green-grey to brownish-red. Weakly bleached chlorite, k-spar and qtz-carb veinlets pervasive. Sericite patchy. Fragments are angular to sub-angular, ~2mm-1cm in diameter and weakly matrix supported. No defined or preferred orientation of fragments throughout. Sulphides are very finely disseminated with small, isolated clusters throughout with ~2-3%. Foliation ~70-80 degrees TCA> Qtz-carb veinlets have weak stockworked and crenulated appearance throughout section. 232.7-233.3 metres has extensive pinkish k-spar with sericitic 'alteration haloes' surrounding them with extensive fine-grained sulphides. Lower contact is weakly rubbled and ~70-80 degrees TCA.	E24290	230.40	231.00	0.60	0.03
			E24291	231.00	232.10	1.10	0.02
			E24292	232.10	232.70	0.60	0.03
			E24293	232.70	233.30	0.60	0.05
			E24294	233.30	233.80	0.50	0.14
			E24295	233.80	234.60	0.80	0.03
			E24296	234.60	235.10	0.50	0.02
			E24297	235.10	236.00	0.90	0.04
			E24299	236.00	237.00	1.00	0.04
			E24300	237.00	237.90	0.90	0.13
			E24301	237.90	238.40	0.50	3.22

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
238.40	240.10	<p>ZFZ, FAULT ZONE FAULT ZONE/INTERMIXED FAULTED ISX/BLL Black-brown to red-pink. Black-brown micaceous mineralization and red-pink k-spar with frequent whitish-grey qtz-carb veinlets throughout. Fragments are sub-angular to sub-rounded, ~1mm-1cm in diameter and moderately matrix supported. No preferred or defined orientation of clasts. Sulphides are finely disseminated throughout and difficult to determine with micaceous mineralization (where applicable) with trace to ~2% throughout. Lower contact defined by semi-healed mud texture trending ~60-70 degrees tCA> Pervasive semi-healed 'mud-like' textures throughout and weakly rubbled textures throughout. Mud-like textures are more prominent with BLL-looking mineralization.</p> <p>MINOR INTERVALS: Minor Interval: 238.40 - 238.90 ISX, BRECCIATED SYENITE BRECCIATED SYENITE Bulk of red-pink k-spar supported by whitish-grey qtz/carb veinlets are found in this section. 1-2% disseminated sulphides throughout. Foliation fairly consistent ~70-80 degrees tCA.</p>	E24302	238.40	238.90	0.50	4.34
			E24303	238.90	240.10	1.20	0.40
240.10	252.50	<p>VMX, MAFIC BRECCIA Similar qualities and textures as previous VMX. Pervasive sub-millimetre whitish-grey extensional veinlets throughout.</p>	E24304	240.10	241.00	0.90	0.69
			E24305	241.00	242.00	1.00	0.04
			E24306	242.00	243.00	1.00	0.01
			E24307	243.00	244.30	1.30	0.01
			E24309	244.30	245.20	0.90	0.03
			E24310	245.20	246.00	0.80	0.02
			E24311	246.00	247.00	1.00	0.01
			E24312	247.00	248.10	1.10	0.07
			E24313	248.10	249.00	0.90	0.03
			E24314	249.00	250.00	1.00	0.02
			E24315	250.00	250.50	0.50	0.11
			E24316	250.50	251.20	0.70	1.39
			E24317	251.20	252.50	1.30	1.59
252.50	266.60	<p>VMO, MAFIC VOLCANIC UNDIVIDED Same general qualities and textures as 190.0-230.4 metres. Lower contact is obscure and ~60-70 degrees TCA></p>	E24319	252.50	253.90	1.40	0.02
			E24320	265.10	266.60	1.50	0.01
266.60	274.20	<p>VMX, MAFIC BRECCIA Same general qualities and textures as 230.4-238.4 metres. Moly as infilling along contacts with qtz-carb veinlets throughout with ~1-2%. Trace CPY as specks associated with moly veinlets.</p>	E24321	266.60	267.60	1.00	0.03
			E24322	267.60	268.20	0.60	0.21
			E24323	268.20	268.80	0.60	1.68
			E24324	268.80	270.00	1.20	0.24
			E24325	270.00	270.60	0.60	3.33
			E24326	270.60	271.70	1.10	0.20
			E24327	271.70	273.00	1.30	0.31
			E24329	273.00	274.20	1.20	0.15

Hole Number: **CZ17-005**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
274.20	282.30	ZFZ, FAULT ZONE Same general textures as previous, albeit with pervasive broken/blocky core and 20 degree TCA to sub-parallel slickensides throughout. Sulphides are trace to ~1-2% finely disseminated and weakly clustered along veinlet edges.	E24330	274.20	275.00	0.80	0.03
			E24331	275.00	276.00	1.00	0.02
			E24332	276.00	277.00	1.00	0.01
			E24333	277.00	277.90	0.90	0.01
			E24334	277.90	278.40	0.50	0.01
			E24335	278.40	279.50	1.10	0.01
			E24336	279.50	280.40	0.90	0.01
			E24337	280.40	281.20	0.80	0.01
			E24339	281.20	282.30	1.10	0.01
282.30	300.00	VMO, MAFIC VOLCANIC UNDIVIDED Same general qualities and textures as 252.5-266.6 metres, albeit with blocky core (albeit not attributed to fault activity). Weakly sheared throughout with sub-millimetre extensional veinlets trending perpendicular with foliation direction of core. sulphides are trace to ~1% finely disseminated. Foliation ~50-60 degrees TCA.	E24340	282.30	282.90	0.60	0.01
			E24341	282.90	284.20	1.30	0.00

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24136	9.40	10.50	0.0025
E24137	10.50	11.00	0.0025
E24139	11.00	11.60	0.0025
E24140	11.60	12.60	0.0025
E24141	12.60	13.10	0.0230
E24142	13.10	14.60	0.0025
E24143	14.60	15.40	0.0025
E24144	15.40	15.90	0.1060
E24145	15.90	16.50	0.3240
E24146	16.50	17.20	0.0350
E24147	17.20	18.00	0.0025
E24149	18.00	18.50	0.1240
E24150	18.50	19.00	0.1510
E24151	19.00	19.50	0.0025
E24152	19.50	20.00	0.0025
E24153	20.00	20.70	0.0025
E24154	20.70	21.70	0.0050
E24155	27.20	28.20	0.0025
E24156	28.20	28.70	0.0070
E24157	28.70	29.50	0.0025
E24159	29.50	30.00	0.0025
E24160	30.00	30.80	0.0130

Hole Number: **CZ17-005**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24161	30.80	31.30	0.0090
E24162	31.30	31.80	0.0025
E24163	31.80	32.30	0.0025
E24164	32.30	33.00	0.0025
E24165	33.00	33.80	0.0025
E24166	33.80	34.30	0.0025
E24167	34.30	35.50	0.0025
E24169	35.50	36.00	0.0090
E24170	36.00	36.50	0.0025
E24171	36.50	37.00	0.0170
E24172	45.60	46.10	0.0025
E24173	46.10	46.60	0.0025
E24174	46.60	47.30	0.0025
E24175	47.30	48.60	0.0025
E24176	48.60	49.10	0.0025
E24177	49.10	49.90	0.0025
E24179	49.90	50.80	0.0025
E24180	50.80	51.40	0.0025
E24181	51.40	52.40	0.0025
E24182	52.40	52.90	0.0025
E24183	66.40	66.90	0.0025
E24184	66.90	67.90	0.0025
E24185	67.90	68.40	0.0025
E24186	68.40	68.90	0.0120
E24187	68.90	69.70	0.0290
E24189	69.70	70.20	0.0130
E24190	70.20	70.70	0.0110
E24191	74.40	74.90	0.0180
E24192	74.90	75.40	0.0150
E24193	75.40	76.10	0.0120
E24194	76.10	76.60	0.0220
E24195	76.60	77.10	0.1370
E24196	77.10	77.60	0.0960
E24197	77.60	78.30	0.0940
E24199	78.30	79.30	0.2800
E24200	79.30	79.80	0.0550
E24201	79.80	80.30	0.2050
E24202	80.30	81.00	0.0170
E24203	81.00	82.00	0.0280

Hole Number: **CZ17-005**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type ASSAY			
E24204	82.00	82.50	0.1500
E24205	82.50	83.00	0.0130
E24206	83.00	83.90	0.0120
E24207	83.90	84.40	0.0130
E24209	84.40	85.20	0.0320
E24210	85.20	86.20	0.0840
E24211	86.20	86.70	0.0800
E24212	86.70	87.30	0.1090
E24213	87.30	87.90	0.0450
E24214	87.90	88.90	0.0170
E24215	88.90	89.40	0.0170
E24216	89.40	90.00	0.0120
E24217	90.00	90.70	0.0260
E24219	90.70	91.80	0.0280
E24220	91.80	92.30	0.0130
E24221	92.30	93.00	0.0190
E24222	93.00	93.50	0.0090
E24223	93.50	94.20	0.0120
E24224	94.20	94.90	0.0100
E24225	94.90	95.60	0.0100
E24226	95.60	96.20	0.0080
E24227	96.20	97.60	0.0110
E24229	97.60	98.60	0.0120
E24230	98.60	99.10	0.0290
E24231	99.10	100.30	0.0130
E24232	100.30	101.30	0.0070
E24233	101.30	102.00	0.0070
E24234	102.00	102.70	0.0070
E24235	102.70	103.20	0.1010
E24236	103.20	103.70	0.0440
E24237	103.70	104.40	0.0110
E24239	104.40	105.00	0.0070
E24240	105.00	105.90	0.0180
E24241	105.90	106.90	0.0050
E24242	117.90	118.90	0.0090
E24243	118.90	119.40	0.0150
E24244	119.40	119.90	0.0240
E24245	119.90	120.40	0.0440
E24246	120.40	120.90	0.0150

Hole Number: **CZ17-005**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24247	120.90	121.60	0.0160
E24249	121.60	123.00	0.0390
E24250	153.00	153.70	0.0220
E24251	153.70	154.20	0.0400
E24252	154.20	154.70	0.1280
E24253	154.70	155.50	0.0670
E24254	155.50	156.00	0.1770
E24255	156.00	156.50	0.0280
E24256	156.50	157.00	0.0280
E24257	157.00	158.00	0.0150
E24259	170.10	171.10	0.0090
E24260	171.10	172.10	0.0080
E24261	172.10	172.90	0.0110
E24262	172.90	173.40	0.0240
E24263	173.40	173.90	0.3070
E24264	173.90	174.40	0.0490
E24265	174.40	174.90	0.8570
E24266	174.90	175.40	4.2290
E24267	175.40	175.90	1.9580
E24269	175.90	176.40	0.0350
E24270	176.40	177.00	0.0270
E24271	177.00	177.60	0.0220
E24272	183.30	184.10	0.0080
E24273	184.10	184.60	0.0370
E24274	184.60	185.10	0.0120
E24275	185.10	185.60	0.0090
E24276	185.60	186.10	0.0140
E24277	186.10	187.00	0.0110
E24279	187.00	187.50	0.0080
E24280	187.50	188.40	0.0090
E24281	188.40	189.00	0.0100
E24282	189.00	189.50	0.0120
E24283	189.50	190.00	0.0140
E24284	190.00	190.50	0.0100
E24285	190.50	191.00	0.0080
E24286	191.00	191.60	0.0110
E24287	227.80	229.30	0.6560
E24289	229.30	230.40	1.6430
E24290	230.40	231.00	0.0330

Hole Number: **CZ17-005**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24291	231.00	232.10	0.0170
E24292	232.10	232.70	0.0270
E24293	232.70	233.30	0.0510
E24294	233.30	233.80	0.1420
E24295	233.80	234.60	0.0290
E24296	234.60	235.10	0.0200
E24297	235.10	236.00	0.0390
E24299	236.00	237.00	0.0370
E24300	237.00	237.90	0.1290
E24301	237.90	238.40	3.2230
E24302	238.40	238.90	4.3370
E24303	238.90	240.10	0.3990
E24304	240.10	241.00	0.6920
E24305	241.00	242.00	0.0360
E24306	242.00	243.00	0.0130
E24307	243.00	244.30	0.0140
E24309	244.30	245.20	0.0310
E24310	245.20	246.00	0.0150
E24311	246.00	247.00	0.0080
E24312	247.00	248.10	0.0650
E24313	248.10	249.00	0.0270
E24314	249.00	250.00	0.0200
E24315	250.00	250.50	0.1130
E24316	250.50	251.20	1.3910
E24317	251.20	252.50	1.5860
E24319	252.50	253.90	0.0230
E24320	265.10	266.60	0.0120
E24321	266.60	267.60	0.0280
E24322	267.60	268.20	0.2050
E24323	268.20	268.80	1.6840
E24324	268.80	270.00	0.2420
E24325	270.00	270.60	3.3260
E24326	270.60	271.70	0.2000
E24327	271.70	273.00	0.3120
E24329	273.00	274.20	0.1500
E24330	274.20	275.00	0.0250
E24331	275.00	276.00	0.0240
E24332	276.00	277.00	0.0120
E24333	277.00	277.90	0.0130

Hole Number: **CZ17-005**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24334	277.90	278.40	0.0140
E24335	278.40	279.50	0.0060
E24336	279.50	280.40	0.0070
E24337	280.40	281.20	0.0120
E24339	281.20	282.30	0.0120
E24340	282.30	282.90	0.0050
E24341	282.90	284.20	0.0025

DETAILED LOG

*Michael Clarke*Hole Number: **CZ17-006**

Units: METRIC

Project Name: Garrison Township	Primary Coordinates Grid: UTM:NAD83:	Destination Coordinates Grid: UTM:	Collar Dip: -50.00
Project Number: GARRIS_TWP	North: 5370090.00	North:	Collar Az: 35.00
Location: Garrison Township	East: 576560.00	East:	Length: 200.00
	Elev: 340.00	Elev:	Start Depth: 0.00
Date Started: Jul 30, 2017	Collar Survey: N	Plugged: N	Contractor: Asinii
Date Completed: Aug 02, 2017	Multishot Survey: N	Hole Size: NQ	Core Storage: Holt McDermott
	Pulse EM Survey: N	Casing: YES	Final Depth: 200.00

Comments: Very magnetic area - surveys are unreliable - interpreted as best as possible

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	28.90	-49.80	EZ Sho	OK	Assumed from first test	42.00	28.90	-49.80	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled back 6 m
93.00	38.60	-49.70	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled back 6 m	159.00	51.00	-49.00	EZ Sho	DO	Azimuth corrected 11.1 degrees. Pulled back 6 m
200.00	47.30	-48.40	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled back 6 m						

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
0.00	12.00	HPO, OVERBURDEN					
12.00	40.00	VMP, VOLCANIC MASSIVE PILLOWED Dark green to light green, moderately magnetic, aphanitic, Pillow salvages green to pinkish red, 3cm to 40cm width, spaced 10cm to 2m, epidote and sercitic alteration in salvages, epidote stringers cross cutting at 50 - 60 degrees TCA, 1%, 1mm - 5mm, Becoming less prominate moving down unit, trace - 2% sulphides in salvages, trace fine disseminated throughout MINOR INTERVALS: Minor Interval: 39.80 - 40.00 ZFO, FAULT Dark green whitish, calcitic, inbetween foliation dipping 60-70 degrees, 1%-2% sulphides disseminated throughout,	E24514	38.10	39.10	1.00	0.00
			E24515	39.10	40.00	0.90	0.01
40.00	40.60	ZBX, FAULT BRECCIA Greyish brown, with pale pink/white, clast supported, sub rounded sub angular, 5mm to 1 cm, Calcite in matrix ,weakly hematized, sercitic alteration, sparse quartz stringers trending 50-60 degrees, ~1 cm width, Sharp lower contact, at 60 to 70 degrees, gradual lower contact.	E24516	40.00	40.60	0.60	0.06
40.60	50.70	VMP, VOLCANIC MASSIVE PILLOWED Similar textures as 12- 40 , Pillow salvages coarse grained epidote with qtz/carb sweats, and sercitic. Albitic alteration halos around salvages, epidote stringers being more prominate (~2%) <2mm to 1cm.	E24517	40.60	41.10	0.50	0.01
			E24519	41.10	41.60	0.50	0.00
			E24520	41.60	43.10	1.50	0.01
			E24521	48.80	49.80	1.00	0.00
			E24522	49.80	50.70	0.90	0.00

Hole Number: **CZ17-006**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
50.70	51.30	ZFO, FAULT Faulted VMP Greenish grey, Blocky broken, sharp LC and UC at 70 to 80 degrees TCA. 1 - 2% fine disseminated throughout,	E24523	50.70	51.30	0.60	0.01
51.30	108.70	VMP, VOLCANIC MASSIVE PILLOWED PILLOWED MAFIC VOLCANIC Similar textures and qualities to previous VMP (40.6-50.7m). Lightly sheared at top of unit transitioning out of shear with depth (ending at 54.0m), pillow salvages contain variolitic texture with slight albitic alteration, foliation oriented ~50-60 degrees TCA, sulphides finely disseminated throughout, trace-1%, associated with albitic altered varioles. Prominant kspar alteration in pillow salvage at 82.6m. Few pillow salvages show evidence of fluid movement through vuggy, coarse grained epidote. Vaolitic textures becoming less prominate down hole along with epidote stringers @ 105.2 Fine grained, homogenous sand, (Driller sand)	E24524	51.30	52.30	1.00	0.00
			E24525	81.30	82.30	1.00	0.01
			E24526	82.30	82.80	0.50	0.01
			E24527	82.80	83.40	0.60	0.01
			E24529	83.40	83.90	0.50	0.00
			E24530	83.90	84.40	0.50	0.00
			E24531	84.40	85.40	1.00	0.00
			E24532	105.80	106.80	1.00	0.00
			E24533	106.80	107.30	0.50	0.01
			E24534	107.30	108.20	0.90	0.01
			E24535	108.20	108.70	0.50	0.01
108.70	109.20	ZFO, FAULT Faulted Pillow Salvage Reddish green, Blocky broken, Hematized, epidote, trace disseminated sulphides throughout with patchy sulphides ~3%, sharp upper and lower contact.	E24536	108.70	109.20	0.50	0.01
109.20	114.60	VMP, VOLCANIC MASSIVE PILLOWED Lightly sheared VMP Dark green whitish green, apahntic, weakly to moderately magnetic, Top of zone is lightly shear ending at 114.6m. Albitic alteration,,Folaiton at 50 to 60 degrees, Some varolitic textures with varioles ranging in size 3mm to 5mm sheared along foliation. Calcitic/epidote stringers becoming prominate towards end of unit trending 40-50 tca,, gradual lower contact at foliation direction, trace sulphides throughout	E24537	109.20	109.70	0.50	0.00
			E24539	109.70	110.20	0.50	0.00
			E24540	110.20	111.00	0.80	0.00

Hole Number: **CZ17-006**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
114.60	168.70	<p>VMP, VOLCANIC MASSIVE PILLOWED</p> <p>Dark green with pillow salvages reddish light green, moderately magnetic, aphanitic,, pillow salvages ranging is size from 1cm to 40 cm, spaced 1m to 4m apart, Altered with some kspar but mainly epidote, hematite and sercite. Serpentinization occurring minoring within the pilows, epidote stringers cross cutting at 40 to 50 degrees tca, trace sulphides peppered throughout and trace to 1% in salvages. Towards end of unit kspar starting at 153m stringers ~1% become more prominate then epidote, cutting across at 50 to 60 degrees tca. Light shearing occurring at lower contact (starting at 163m) Foliation 70 to 80 degrees. Sheared varioles with infilled sercite and sulphides. Slide surface start becoming more prominate at direction of foliation. @117.8m 6cm quartz/calcite veinlet at 70 - 80 degrees tca. Starting at 137.7m core becoming less aphanitic and more of a peppered textured with (leucoxene?) Pillows becoming more epidote rich almost vuggy, sercite. With sulphides being associated with sercite (1-2%)</p> <p>MINOR INTERVALS: Minor Interval: 124.90 - 125.30 ZHZ, SHEAR Sheared VMP Dark green to Light green, foliation 50-60 degrees tca, slightly hematized with kspar alteration. Gradual lower and upper contacts at foliation direction.</p>	E24541	165.80	166.50	0.70	0.00
			E24542	166.50	167.00	0.50	0.00
			E24543	167.00	168.00	1.00	0.01
			E24544	168.00	168.70	0.70	0.01
168.70	174.20	<p>ZHZ, SHEAR</p> <p>Sheared VMP Dark green to Light green, foliation 50-60 degrees tca, sheared pillow salvages have epidote/sercite alteration. Sheared varioles 1cm to 3cm elongated, quartz stringers with in pillow approximately 4cm in width. Gradual lower and upper contacts at foliation direction.</p>	E24545	168.70	169.30	0.60	0.01
			E24546	169.30	170.20	0.90	0.02
			E24547	170.20	170.70	0.50	0.01
			E24549	170.70	171.10	0.40	0.00
			E24550	171.10	172.60	1.50	0.00
			E24551	172.60	173.60	1.00	0.11
		E24552	173.60	174.20	0.60	0.01	
174.20	175.50	<p>VMX, MAFIC BRECCIA</p> <p>Mottled dark green/light green and red, quartz veinlet rining 10 - 20 degrees tca 4-5cm in width. Kspar mineralization at contact. Alteration primarily epidote and sercite some hematization. Clast supported, angular to sub angular, 0.5mm to 1cm. Starting at 174.9 some albitic alteration. Trace sulphides dissmenated thoroughout. Sharp LC at 70 to 80 degrees tca.</p>	E24553	174.20	174.70	0.50	0.02
			E24554	174.70	175.50	0.80	0.01
175.50	176.00	<p>ZHZ, SHEAR</p> <p>Similar to 168.8 to 174.2m. Gradual LC at 70 to 80 degrees.</p>	E24555	175.50	176.00	0.50	0.03

Hole Number: **CZ17-006**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
176.00	183.30	VMP, VOLCANIC MASSIVE PILLOWED Dark green to olive green, aphanitic, albitic alteration halos around pillow salvages, , Pillows salvages sericite and epidote varying in width 5 to 7cm spaced 1m to 3m. Small blebs of (2mm-4mm) of sulphides scattered throughout, Epidote extensional fractures cutting across at 50 to 60 which are cut perpendicular to by epidote extensional fractures 80 to 90 degrees (1%-2%). @ 182.3m pillow salvage is composed of serpentine and kspar cutting across at 0-10 degrees tca. MINOR INTERVALS: Minor Interval: 182.50 - 182.60 ZFO, FAULT Sharp LC and UC, hematized staining, blocky and broken. Breaks appear to be at 80 to 90 degrees tca.	E24556	176.00	176.50	0.50	0.02
			E24557	176.50	177.00	0.50	0.01
			E24559	177.00	177.70	0.70	0.04
			E24560	177.70	178.20	0.50	0.02
			E24561	180.00	180.80	0.80	0.01
			E24562	180.80	181.80	1.00	0.01
			E24563	181.80	182.30	0.50	0.04
			E24564	182.30	182.80	0.50	0.00
			E24565	182.80	183.30	0.50	0.06
183.30	186.00	ZFZ, FAULT ZONE Faulted VMP Dark green to whish grey with localized reddish staining. Slide breaks at 40 to 50 degrees TCA, hematite, healed crenulated fractures infilled with qtz-carb (5-7mm in width) Cutting across at 40 to 50 degrees TCA. Sharp LC.	E24566	183.30	184.30	1.00	0.01
			E24567	184.30	185.00	0.70	0.00
			E24569	185.00	185.50	0.50	0.00
			E24570	185.50	186.00	0.50	0.01
186.00	200.00	VMP, VOLCANIC MASSIVE PILLOWED Similar to 176.00 to 183.3 Less epidote (~1%) infills replaced with kspar and calcite (trace). Pillow salvages have more kspar alteration	E24571	186.00	186.80	0.80	0.03
			E24572	186.80	187.30	0.50	0.00
			E24573	187.30	188.30	1.00	0.02

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24514	38.10	39.10	0.0025
E24515	39.10	40.00	0.0120
E24516	40.00	40.60	0.0600
E24517	40.60	41.10	0.0100
E24519	41.10	41.60	0.0025
E24520	41.60	43.10	0.0060
E24521	48.80	49.80	0.0025
E24522	49.80	50.70	0.0025
E24523	50.70	51.30	0.0140
E24524	51.30	52.30	0.0025
E24525	81.30	82.30	0.0100
E24526	82.30	82.80	0.0050
E24527	82.80	83.40	0.0060
E24529	83.40	83.90	0.0025
E24530	83.90	84.40	0.0025
E24531	84.40	85.40	0.0025

Hole Number: **CZ17-006**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24532	105.80	106.80	0.0025
E24533	106.80	107.30	0.0080
E24534	107.30	108.20	0.0060
E24535	108.20	108.70	0.0060
E24536	108.70	109.20	0.0050
E24537	109.20	109.70	0.0025
E24539	109.70	110.20	0.0025
E24540	110.20	111.00	0.0025
E24541	165.80	166.50	0.0025
E24542	166.50	167.00	0.0025
E24543	167.00	168.00	0.0110
E24544	168.00	168.70	0.0140
E24545	168.70	169.30	0.0080
E24546	169.30	170.20	0.0180
E24547	170.20	170.70	0.0070
E24549	170.70	171.10	0.0025
E24550	171.10	172.60	0.0025
E24551	172.60	173.60	0.1090
E24552	173.60	174.20	0.0050
E24553	174.20	174.70	0.0180
E24554	174.70	175.50	0.0130
E24555	175.50	176.00	0.0300
E24556	176.00	176.50	0.0200
E24557	176.50	177.00	0.0070
E24559	177.00	177.70	0.0350
E24560	177.70	178.20	0.0160
E24561	180.00	180.80	0.0060
E24562	180.80	181.80	0.0100
E24563	181.80	182.30	0.0390
E24564	182.30	182.80	0.0025
E24565	182.80	183.30	0.0560
E24566	183.30	184.30	0.0100
E24567	184.30	185.00	0.0025
E24569	185.00	185.50	0.0025
E24570	185.50	186.00	0.0070
E24571	186.00	186.80	0.0290
E24572	186.80	187.30	0.0025
E24573	187.30	188.30	0.0190

DETAILED LOG



Hole Number: **CZ17-007**

Units: METRIC

Project Name: Garrison Township	Primary Coordinates Grid: UTM:NAD83:	Destination Coordinates Grid: UTM:	Collar Dip: -50.00
Project Number: GARRIS_TWP	North: 5369930.00	North:	Collar Az: 35.00
Location: Garrison Township	East: 576714.00	East:	Length: 250.00
	Elev: 342.00	Elev:	Start Depth: 0.00
Date Started: Aug 06, 2017	Collar Survey: N	Plugged: N	Contractor: Asinii
Date Completed: Aug 08, 2017	Multishot Survey: N	Hole Size: NQ	Core Storage: Holt McDermott
	Pulse EM Survey: N	Casing: YES	Final Depth: 250.00

Comments: Very magnetic area - surveys are unreliable - interpreted as best as possible

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	41.60	-51.40	EZ Sho	OK	Assumed from first test	33.00	41.60	-51.40	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m
83.00	40.90	-50.70	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m	135.00	51.40	-50.50	EZ Sho	DO	low mag
186.00	42.30	-50.30	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m	237.00	41.60	-50.10	EZ Sho	OK	Azimuth corrected 11.1 degrees, pulled back 6m

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
0.00	21.00	HPO, OVERBURDEN					
21.00	29.30	VMP, VOLCANIC MASSIVE PILLOWED Reddish/brown green with whitish bleaching, Blocky broken, very poor RQD, oxidized, becoming more competent, VMP peices seem to be to be bleached and have ablitic/silica alteration stringers running ~50-70 degrees TCA, , hematite staining seen on contacts vuggy showing fluid movement, Trace sulphides throughout, Gradual LC perpendicular TCA. 28.7m - 29.3m heavy calcite/hematie staidned Stockworked ~1mm veining.					
29.30	61.60	VMP, VOLCANIC MASSIVE PILLOWED Dark green to light green, Pillow salvages widths ranging from 4cm to 12cm spaced to 30cm to 3m, with sericte and epidote weakly hematized, Epidote fractures infills cross cutting at 50 to 60 degree TCA starting at top of unit spaced 3-10cm as moving down the unit becoming ever 10-30cm, zones of coarse grained areas of amydaloidal ranging in size from 30cm to 50cm, spaced evert 2m to 2.5m. LC gradual at 60 to 70 degrees.	E24691	42.00	42.60	0.60	0.01
			E24692	42.60	43.30	0.70	0.01
			E24693	43.30	44.30	1.00	0.03
			E24694	44.30	45.00	0.70	0.53
			E24695	45.00	46.10	1.10	0.07
			E24696	46.10	47.10	1.00	0.63
			E24697	47.10	48.00	0.90	0.00
			E24699	48.00	49.00	1.00	0.02
			E24700	49.00	50.00	1.00	0.07
			E24701	50.00	51.00	1.00	0.04
			E24702	51.00	52.40	1.40	0.02
			E24703	52.40	53.60	1.20	0.05
			E24704	60.00	61.10	1.10	0.46
			E24705	61.10	61.60	0.50	0.00

DETAILED LOGHole Number: **CZ17-007**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
61.60	71.70	VMM, MAFIC VOLCANIC MASSIVE Dark green to green, weakly stockworked with calcite till 66m ,Leucoxene, Epidote fracture infills 50 to 60 degrees TCA spaced 3-10cm, sparse calcitic stringers at 50 to 60 degrees TCA. LC is gradual at pillow salvages From 61.6 to 63.4m hematized zone, with 2-3% sulphides finely disseminated sulphides, vuggy reddish green. Folarion at 40 to 50m	E24706	61.60	62.10	0.50	0.01
			E24707	62.10	62.60	0.50	0.02
			E24709	62.60	63.70	1.10	0.00
			E24710	70.70	71.70	1.00	0.04

Hole Number: **CZ17-007**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
71.70	149.20	VMP, VOLCANIC MASSIVE PILLOWED Lightly sheared VMP wit interbedded VMA Dark green to whitish beige/ light green Pillow salvages ranging in size from 5cm to 60cm, spaced every 1.5 to 2m, Sparce varioles associated with pillow salvages ranging is size from 7mm to 2cm,Trace sulphides disseminated throughout, bleached halows associated with salvages, Epidote tensional fractures trending 60 to 70 degrees being cut perpendicular 50 to 60 deegees, folaition 50 to 60 degrees TCA spaced 3-10cm till 80.6m becoming less prominate after. Gradual contact LC at 60 to 70 degrees TCA. To 105.4m Pillow salvages primarily albitic/silica alteration with epidote and sercrite with sulphides associated ranging 1%-3% mottled with light pink. No Varioles associated with After 105.4m Pillow salvages primarily sercrite/epidotes with sulphides 1-2 %, varioles associated with these pillows, elongated with foliation From 137-137.4m Quartz veinlet trending at 40 to 50 tCa, Alteration is sercrite/epidote with minor hematite, Sulphides fine trace to 1%	E24711	71.70	72.70	1.00	0.03
			E24712	72.70	73.80	1.10	0.01
			E24713	73.80	74.30	0.50	0.01
			E24714	74.30	75.40	1.10	0.03
			E24715	75.40	76.10	0.70	0.02
			E24716	76.10	76.60	0.50	0.00
			E24717	76.60	77.60	1.00	0.01
			E24719	77.60	78.60	1.00	0.01
			E24720	78.60	79.60	1.00	0.02
			E24721	79.60	80.60	1.00	0.04
			E24722	80.60	81.30	0.70	0.03
			E24723	81.30	82.00	0.70	0.00
			E24724	82.00	83.20	1.20	0.00
			E24725	83.20	84.00	0.80	0.00
			E24726	94.10	95.00	0.90	0.02
			E24727	95.00	96.00	1.00	0.00
			E24729	96.00	96.60	0.60	0.02
			E24730	96.60	97.60	1.00	0.05
			E24731	124.00	125.00	1.00	0.00
			E24732	125.00	125.50	0.50	0.38
			E24733	125.50	126.50	1.00	0.02
			E24734	126.50	127.50	1.00	0.02
			E24735	127.50	128.50	1.00	0.01
			E24736	128.50	129.10	0.60	0.02
			E24737	129.10	129.70	0.60	0.01
			E24739	129.70	130.40	0.70	0.01
			E24740	130.40	131.40	1.00	0.00
			E24741	131.40	132.20	0.80	0.01
			E24742	132.20	133.20	1.00	0.07
			E24743	133.20	134.00	0.80	0.05
			E24744	134.00	134.80	0.80	0.01
			E24745	134.80	135.40	0.60	0.03
			E24746	135.40	136.10	0.70	0.01
			E24747	136.10	136.70	0.60	0.00
			E24749	136.70	137.50	0.80	0.02
			E24750	137.50	138.00	0.50	0.02
			E24751	138.00	138.80	0.80	0.06
			E24752	141.00	142.00	1.00	0.00
			E24753	142.00	142.50	0.50	0.01
			E24754	142.50	143.50	1.00	0.01
			E24755	143.50	144.50	1.00	0.01
			E24756	144.50	145.50	1.00	0.00

DETAILED LOGHole Number: **CZ17-007**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
			E24757	145.50	146.00	0.50	0.01
			E24759	146.00	147.00	1.00	0.01
			E24760	147.00	148.20	1.20	0.00
			E24761	148.20	149.20	1.00	0.00

DETAILED LOG

Hole Number: **CZ17-007**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
149.20	188.50	VMV, MAFIC VOLCANIC VARIOLITIC Sheared Varioles whiteish grey to beige, greenish white, amigdols, in filled with silicious/albite ranging in size from 3mm to 7mm, greater than 60%, chlorite /epidote inbetween, Hydrothermally altered. UC contact gradual and is perpendicular TCA, Weak Sercitic alteration stringers within mass of infilled varioles, running 30-40 degrees TCA, Fine disseminated sulphides throughout (1-2%), Till 100.3m there are calcitic stringers 2mm - 3mm in width spaced 10-30cm apart. Foliation 60-70 degrees TCA	E24762	149.20	150.00	0.80	0.00
			E24763	150.00	151.00	1.00	0.00
			E24764	151.00	152.00	1.00	0.00
			E24765	152.00	153.00	1.00	0.00
			E24766	153.00	154.00	1.00	0.01
			E24767	154.00	155.00	1.00	0.00
			E24769	155.00	156.00	1.00	0.00
			E24770	156.00	157.00	1.00	0.00
			E24771	157.00	157.50	0.50	0.01
			E24772	157.50	158.00	0.50	0.01
			E24773	158.00	158.50	0.50	0.08
			E24774	158.50	159.00	0.50	0.00
			E24775	159.00	159.50	0.50	0.00
			E24776	159.50	160.00	0.50	0.01
			E24777	160.00	160.80	0.80	0.01
			E24779	160.80	162.00	1.20	0.00
			E24780	162.00	163.00	1.00	0.01
			E24781	163.00	164.00	1.00	0.00
			E24782	164.00	165.00	1.00	0.01
			E24783	165.00	166.00	1.00	0.00
			E24784	166.00	167.30	1.30	0.00
			E24785	167.30	167.80	0.50	0.00
			E24786	167.80	168.80	1.00	0.01
			E24787	168.80	169.80	1.00	0.01
			E24789	169.80	170.90	1.10	0.00
			E24790	170.90	171.90	1.00	0.00
			E24791	171.90	172.90	1.00	0.00
			E24792	172.90	174.00	1.10	0.00
			E24793	174.00	175.00	1.00	0.00
			E24794	175.00	176.00	1.00	0.00
			E24795	176.00	177.00	1.00	0.00
			E24796	177.00	178.00	1.00	0.00
			E24797	178.00	179.00	1.00	0.00
			E24799	179.00	180.00	1.00	0.01
			E24800	180.00	181.00	1.00	0.00
			E24801	181.00	182.00	1.00	0.00
			E24802	182.00	183.00	1.00	0.01
			E24803	183.00	184.00	1.00	0.01
			E24804	184.00	185.00	1.00	0.01
			E24805	185.00	186.00	1.00	0.01
			E24806	186.00	187.30	1.30	0.01
			E24807	187.30	188.50	1.20	0.00

Hole Number: **CZ17-007**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
188.50	227.80	<p>VMP, VOLCANIC MASSIVE PILLOWED</p> <p>Massive Pillowed volcanic Dark green, with light green to reddish green. Pillow salvages spaced every 30cm to 2m with varying widths of 5cm to 60 cm. Pillows have been altered with with epidote, sericite and hematite. Sulphides trace disseminated throughout. From 192.9 to 197m Lightly sheared with blebs of sulphides elongated at at 60-70 degrees , sulphides are 2-3%. Epidote infilled tensional fractures spaced 10-30cm apart. Sharp LC contact at 40 to 50 degrees and gradual UC.</p> <p>MINOR INTERVALS: Minor Interval: 192.30 - 192.90 QVO, QUARTZ VEINS Quartz Calcite vein with sheared lower contact Milky quartz with calcite associated at contacts, 1-2mm graphitic seams sporadic, Sharp UC at 70-80 degrees TCA, LC at 70 - 80 degrees, contact is sheared with foliation at 2-3mm at 70 to 80 degrees, From 192.8-192.9, Irregular contact with Qtz-Calcite. Trace - 1% finely disseminated in qtz vein, sheared zone sulphides at 2-3%</p>	E24809	188.50	189.50	1.00	0.00
			E24810	189.50	190.50	1.00	0.00
			E24811	190.50	191.00	0.50	0.00
			E24812	191.00	192.30	1.30	0.02
			E24813	192.30	192.90	0.60	0.08
			E24814	192.90	194.00	1.10	0.02
			E24815	194.00	195.00	1.00	0.01
			E24816	195.00	196.10	1.10	0.01
			E24817	196.10	196.90	0.80	0.02
			E24819	196.90	198.00	1.10	0.01
227.80	246.00	<p>VDO, DIORITE/DOLERITE</p> <p>Kspar altered Diorite White/grey diorite with reddish pink staining, coarse grained, magnetic ,mottled qtz/albitic alteration throughout, fine epidote fracture infills (~2mm) sprodicly spread thought core. Pepperiing of plagioclase grains throughout .Aphanitic dark green mafic intrusion 2cm-10cm in width spaced approximately 30cm - 40cm apart, with chloritic /epidote alteration. Fine trace disseminated sulphides throughout, Gradual LC at 60-70, slip surface with graphite.</p>	E24820	233.40	234.00	0.60	0.01
			E24821	234.00	234.50	0.50	0.01
			E24822	234.50	235.00	0.50	0.01
			E24823	235.00	235.50	0.50	0.01
			E24824	235.50	236.00	0.50	0.01
			E24825	236.00	236.50	0.50	0.02
			E24826	236.50	237.00	0.50	0.03
			E24827	237.00	237.50	0.50	0.01
			E24829	237.50	238.00	0.50	0.02
			E24830	238.00	238.50	0.50	0.04
			E24831	238.50	239.00	0.50	0.13
			E24832	239.00	239.50	0.50	0.02
			E24833	239.50	240.00	0.50	0.08
			E24834	240.00	240.50	0.50	0.01
			E24835	240.50	241.00	0.50	0.02
			E24836	241.00	241.50	0.50	0.04
			E24837	241.50	242.00	0.50	0.02
			E24839	242.00	242.50	0.50	0.01
			E24840	242.50	243.00	0.50	0.01
			E24841	243.00	243.50	0.50	0.02
		E24842	243.50	244.00	0.50	0.02	
		E24843	244.00	244.50	0.50	0.28	
		E24844	244.50	245.00	0.50	0.25	
		E24845	245.00	245.50	0.50	0.16	
		E24846	245.50	246.00	0.50	1.17	

Hole Number: **CZ17-007**

Units: METRIC

Detailed Lithology		Assay Data					
From	To	Lithology	Sample Number	From	To	Length	Au_gpt_Final
246.00	248.20	VMX, MAFIC BRECCIA Volcanic pillow breccia , Dark grey to reddish grey. Clast supported, large clasts 1cm to 10cm, some sheared zones with foliation at 70 to 80 degrees TCA, Sulphides finely disseminated throughout at 2-3%, Calcite tensional veins trending at 60 to 70 degrees TCA (3-10%), Hematite and sericite alteration. Sharp LC at 50 to 60 degrees TCA.	E24847	246.00	246.50	0.50	0.05
			E24849	246.50	247.00	0.50	0.04
			E24850	247.00	247.70	0.70	0.01
			E24851	247.70	248.20	0.50	0.02
248.20	249.00	QBX, QUARTZ BRECCIA Milky quartz, clasts of Quartz supported, ranging in size from 1cm to 5cm, calcite, mafic minerals matrix, graphitic throughout, Sulphides finely disseminated throughout at trace to 1%. Epidote and sericite alteration.	E24852	248.20	249.00	0.80	0.04
249.00	250.00	VMX, MAFIC BRECCIA Similar to 246 to 248.2m Sharp UC at 50 to 60 degrees TCA	E24853	249.00	249.50	0.50	0.02
			E24854	249.50	250.00	0.50	0.02

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24691	42.00	42.60	0.0080
E24692	42.60	43.30	0.0080
E24693	43.30	44.30	0.0340
E24694	44.30	45.00	0.5300
E24695	45.00	46.10	0.0670
E24696	46.10	47.10	0.6320
E24697	47.10	48.00	0.0025
E24699	48.00	49.00	0.0160
E24700	49.00	50.00	0.0680
E24701	50.00	51.00	0.0380
E24702	51.00	52.40	0.0240
E24703	52.40	53.60	0.0460
E24704	60.00	61.10	0.4590
E24705	61.10	61.60	0.0025
E24706	61.60	62.10	0.0140
E24707	62.10	62.60	0.0180
E24709	62.60	63.70	0.0025
E24710	70.70	71.70	0.0350
E24711	71.70	72.70	0.0320
E24712	72.70	73.80	0.0120
E24713	73.80	74.30	0.0140
E24714	74.30	75.40	0.0300
E24715	75.40	76.10	0.0160
E24716	76.10	76.60	0.0025

Hole Number: **CZ17-007**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24717	76.60	77.60	0.0060
E24719	77.60	78.60	0.0130
E24720	78.60	79.60	0.0180
E24721	79.60	80.60	0.0440
E24722	80.60	81.30	0.0280
E24723	81.30	82.00	0.0025
E24724	82.00	83.20	0.0025
E24725	83.20	84.00	0.0025
E24726	94.10	95.00	0.0230
E24727	95.00	96.00	0.0025
E24729	96.00	96.60	0.0190
E24730	96.60	97.60	0.0500
E24731	124.00	125.00	0.0025
E24732	125.00	125.50	0.3780
E24733	125.50	126.50	0.0160
E24734	126.50	127.50	0.0190
E24735	127.50	128.50	0.0110
E24736	128.50	129.10	0.0190
E24737	129.10	129.70	0.0130
E24739	129.70	130.40	0.0090
E24740	130.40	131.40	0.0025
E24741	131.40	132.20	0.0100
E24742	132.20	133.20	0.0720
E24743	133.20	134.00	0.0530
E24744	134.00	134.80	0.0100
E24745	134.80	135.40	0.0330
E24746	135.40	136.10	0.0060
E24747	136.10	136.70	0.0025
E24749	136.70	137.50	0.0150
E24750	137.50	138.00	0.0180
E24751	138.00	138.80	0.0560
E24752	141.00	142.00	0.0025
E24753	142.00	142.50	0.0110
E24754	142.50	143.50	0.0110
E24755	143.50	144.50	0.0060
E24756	144.50	145.50	0.0025
E24757	145.50	146.00	0.0120
E24759	146.00	147.00	0.0070
E24760	147.00	148.20	0.0025

Hole Number: **CZ17-007**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24761	148.20	149.20	0.0025
E24762	149.20	150.00	0.0025
E24763	150.00	151.00	0.0025
E24764	151.00	152.00	0.0025
E24765	152.00	153.00	0.0025
E24766	153.00	154.00	0.0080
E24767	154.00	155.00	0.0025
E24769	155.00	156.00	0.0025
E24770	156.00	157.00	0.0025
E24771	157.00	157.50	0.0100
E24772	157.50	158.00	0.0080
E24773	158.00	158.50	0.0750
E24774	158.50	159.00	0.0025
E24775	159.00	159.50	0.0025
E24776	159.50	160.00	0.0050
E24777	160.00	160.80	0.0060
E24779	160.80	162.00	0.0025
E24780	162.00	163.00	0.0100
E24781	163.00	164.00	0.0025
E24782	164.00	165.00	0.0080
E24783	165.00	166.00	0.0025
E24784	166.00	167.30	0.0025
E24785	167.30	167.80	0.0025
E24786	167.80	168.80	0.0050
E24787	168.80	169.80	0.0070
E24789	169.80	170.90	0.0025
E24790	170.90	171.90	0.0025
E24791	171.90	172.90	0.0025
E24792	172.90	174.00	0.0025
E24793	174.00	175.00	0.0025
E24794	175.00	176.00	0.0025
E24795	176.00	177.00	0.0025
E24796	177.00	178.00	0.0025
E24797	178.00	179.00	0.0025
E24799	179.00	180.00	0.0100
E24800	180.00	181.00	0.0025
E24801	181.00	182.00	0.0025
E24802	182.00	183.00	0.0090
E24803	183.00	184.00	0.0090

Hole Number: **CZ17-007**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24804	184.00	185.00	0.0080
E24805	185.00	186.00	0.0060
E24806	186.00	187.30	0.0090
E24807	187.30	188.50	0.0025
E24809	188.50	189.50	0.0025
E24810	189.50	190.50	0.0025
E24811	190.50	191.00	0.0025
E24812	191.00	192.30	0.0210
E24813	192.30	192.90	0.0760
E24814	192.90	194.00	0.0180
E24815	194.00	195.00	0.0080
E24816	195.00	196.10	0.0080
E24817	196.10	196.90	0.0220
E24819	196.90	198.00	0.0070
E24820	233.40	234.00	0.0060
E24821	234.00	234.50	0.0090
E24822	234.50	235.00	0.0080
E24823	235.00	235.50	0.0120
E24824	235.50	236.00	0.0060
E24825	236.00	236.50	0.0150
E24826	236.50	237.00	0.0260
E24827	237.00	237.50	0.0090
E24829	237.50	238.00	0.0150
E24830	238.00	238.50	0.0430
E24831	238.50	239.00	0.1280
E24832	239.00	239.50	0.0190
E24833	239.50	240.00	0.0800
E24834	240.00	240.50	0.0110
E24835	240.50	241.00	0.0240
E24836	241.00	241.50	0.0360
E24837	241.50	242.00	0.0180
E24839	242.00	242.50	0.0100
E24840	242.50	243.00	0.0060
E24841	243.00	243.50	0.0210
E24842	243.50	244.00	0.0200
E24843	244.00	244.50	0.2800
E24844	244.50	245.00	0.2480
E24845	245.00	245.50	0.1580
E24846	245.50	246.00	1.1650

Hole Number: **CZ17-007**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24847	246.00	246.50	0.0540
E24849	246.50	247.00	0.0360
E24850	247.00	247.70	0.0090
E24851	247.70	248.20	0.0190
E24852	248.20	249.00	0.0360
E24853	249.00	249.50	0.0210
E24854	249.50	250.00	0.0200

DETAILED LOG

*Michael Clarke*Hole Number: **CZ17-008**

Units: METRIC

Project Name: Garrison Township	Primary Coordinates Grid: UTM:NAD83:	Destination Coordinates Grid: UTM:	Collar Dip: -50.00
Project Number: GARRIS_TWP	North: 5369910.00	North:	Collar Az: 35.00
Location: Garrison Township	East: 576610.00	East:	Length: 300.00
	Elev: 335.00	Elev:	Start Depth: 0.00
Date Started: Aug 02, 2017	Collar Survey: N	Plugged: N	Contractor: Asinii
Date Completed: Aug 05, 2017	Multishot Survey: N	Hole Size: NQ	Core Storage: Holt McDermott
	Pulse EM Survey: N	Casing: YES	Final Depth: 300.00

Comments: Very magnetic area - surveys are unreliable - interpreted as best as possible

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	42.90	-52.30	EZ Sho	OK	Assumed from first test	54.00	42.90	-52.30	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled back 6 m
105.00	39.10	-52.00	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled Back 6m	156.00	44.90	-59.80	EZ Sho	N	low mag - anomalous dip
207.00	37.10	-51.60	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled Back 6m	255.00	50.90	-51.40	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled Back 6m
300.00	56.00	-51.10	EZ Sho	OK	Azimuth corrected 11.1 degrees. Pulled Back 6m						

Detailed Lithology

From		To	Lithology	Assay Data					
From		To	Lithology	Sample Number	From	To	Length	Au_gpt_Final	
0.00	45.00		HPO, OVERBURDEN						
45.00	65.70		VMP, VOLCANIC MASSIVE PILLOWED Dark green to greenish white, peppery texture, magnetic, pillow salvages light green primarily epidote/sericite, widths varying from 5cm to 10cm spaced 1m to 3m, epidote fracture infills ranging in width from 1mm to 3mm at 50-60 degrees being cut across perpendicular by epidote infills at 30 to 40 degrees. Trace fine disseminated sulphides throughout with pillow salvages having trace to 1%.	E24574	63.80	64.70	0.90	0.01	
				E24575	64.70	65.20	0.50	0.01	
				E24576	65.20	65.70	0.50	0.00	
65.70	66.90		VMX, MAFIC BRECCIA Dark green to light green epidote clasts with milky white calcite matrix, Matrix supported, clasts ranging in size from 1cm to 4cm, trace to 1% sulphides within clasts. some vuggy textures showing fluid movement, becoming more clast supported within the last 40cm of unit. Sharp lower contact at 50 to 60 degrees tca.	E24577	65.70	66.90	1.20	0.00	
66.90	81.70		VMM, MAFIC VOLCANIC MASSIVE Dark Green, Massive/aphanitic, magnetic, Leucoxene which decreases down the unit, hematite, Qtz/calcite stringers throughout cutting across at 50-60 degrees TCA, gradational UC and LC, From 73.1 - 75.1m Stock worked area 1 -3 % with calcite, being replaced by kspar, slide surfaces cutting across at 40 to 60 degrees, From 78.4-78.6m Qtz/carb vein with hematite and weak sericite and vuggy showing fluid movement with irregular LC and UC contacts From 75.1 to 81.7 kspar running sub parallel to core axis 1 - 3 % with weak stockworking	E24579	66.90	67.40	0.50	0.00	
				E24580	67.40	68.00	0.60	0.00	
				E24581	68.00	68.50	0.50	0.00	

Hole Number: **CZ17-008**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
81.70	95.00	<p>VMP, VOLCANIC MASSIVE PILLOWED</p> <p>Sheared VMP and varioles Dark green, with light green to whitish green. Pillow salvages spaced every 30cm to 2m with varying widths of 5cm to 60 cm. Pillows have been altered with with epidote, sericite and hematite running through in later stage stringers 10-30 degrees TCA , Foliation 60 - 70 degrees TCA, Varioles ranging in size from 2mm to 4cm sheared along foliation, sulphides trace disseminated throughout with 1 -2% fine dissmenated associated with sheared pillow salvages. Kspar veins 1-3@ parallel to 20 degrees TCa</p> <p>Pillow at 83.4- 84, stock worked veining(1mm to 1cm) oblique to TCA with chlorite with ablite and kspar</p>	E24582	93.70	94.20	0.50	0.00
			E24583	94.20	95.00	0.80	0.00
95.00	99.00	<p>ZHZ, SHEAR</p> <p>Sheared Varioles/Pillows Whitish green with dark green intervals, Foliation at 60 to 70 TCA with fine beds, Abite/silica alteration with epitote and minor sericite, qtz/ankerite stringer running parallel to TCA. Varioles 2mm to 7mm infilled with albite. @98.1 to 98.3 Sericite stringer ~1cm wide running 0 -10 degrees TCA.</p>	E24584	95.00	96.00	1.00	0.00
			E24585	96.00	97.20	1.20	0.00
			E24586	97.20	98.00	0.80	0.01
			E24587	98.00	98.50	0.50	0.00
			E24589	98.50	99.00	0.50	0.00
99.00	99.50	<p>VMX, MAFIC BRECCIA</p> <p>Dark green mafic clasts with olive green matrix, clasts are sub angular to sub rounded, matrix is fine frained epidote with weak sercitic alteration at contacts, qtz sweats within matrix ,gradual LC contact at 60- 70 degees, Trace fine disseminated sulphides throughout.</p>	E24590	99.00	99.50	0.50	0.01
99.50	120.30	<p>VMP, VOLCANIC MASSIVE PILLOWED</p> <p>Sheared VMP and varioles Dark green, with light green to whitish green. Pillow salvages spaced every 30cm to 2m with varying widths of 5cm to 7cm. Pillows have been altered with with epidote, sericite Foliation 60 - 70 degrees TCA, Varioles ranging in size from 6mm to 4cm sheared along foliation, sulphides trace disseminated throughout with 1 -2% fine dissmenated associated with sheared pillow salvages. Gradual LC along foliation @108.2 - 108.3 qtz/ankertite veinlet with graula upper contact 80 - 90 tca and sharp LC 70- 80 degrees TCA</p> <p>MINOR INTERVALS: Minor Interval: 113.40 - 117.10 VMV, MAFIC VOLCANIC VARIOLITIC Whitish brown green variouls with dark green matrix, Greater than 50 % varioles, randing in size sheared at 60 - 70 degrees TC, Varioles ranging in size along shear place from 1cm to 3cm, sporadic Sercitic alteration blebs occuring with matix</p>	E24591	99.50	100.10	0.60	0.00
			E24592	100.10	100.60	0.50	0.01
			E24593	100.60	101.60	1.00	0.00
			E24594	101.60	102.10	0.50	0.00
			E24595	118.80	119.30	0.50	0.00
			E24596	119.30	119.80	0.50	0.00
			E24597	119.80	120.30	0.50	0.01
120.30	122.70	<p>ZHZ, SHEAR</p> <p>Sheared VMP, Green to dark green,, foliation marked by bands of chlorite and elongated blebs of sulphides (pyrite) at 50 to 60 degrees, 3-10% tensional fractures infilled with calcite, ~2mm, Sulphides Clustered in blebs throughout 2-3%. Qtz-kerite veinlet, 1cm wide trending 60 to 70 degrees.</p>	E24599	120.30	120.80	0.50	0.00
			E24600	120.80	121.70	0.90	0.00
			E24601	121.70	122.20	0.50	0.01
			E24602	122.20	122.70	0.50	0.03

Hole Number: **CZ17-008**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
122.70	145.00	VMP, VOLCANIC MASSIVE PILLOWED Similar to 99.5- 120.3m Varioles ranging in size from 6mm to 4cm sheared along foliation, sulphides trace disseminated throughout with 1 -2% fine dissminated associated with sheared pillow salvages. Gradual LC along foliation.	E24603	122.70	123.50	0.80	0.01
			E24604	123.50	124.00	0.50	0.16
			E24605	124.00	124.60	0.60	0.05
			E24606	124.60	125.10	0.50	0.00
			E24607	143.10	144.00	0.90	0.01
			E24609	144.00	144.50	0.50	0.00
			E24610	144.50	145.00	0.50	0.00
145.00	173.10	VMV, MAFIC VOLCANIC VARIOLITIC whiteish grey to beige, greenish white,amigdols, in filled with silicious/albite ranging in size from 3mm to 7mm, greater than 60%, chlorite /epidote inbetween ,Hydrothermally altered.UC contact gradual and is perpendicular TCA, Weak Sercitic alteration stringers within mass of infilled varioles, running 30-40 degrees TCA, relic pillow salvages with light shearing spaced ~40cm-1.5m at 40-50 TCA, altered with epidote ,Qtz/ankerite sericite, Fine disseminated sulphides throughout (trace to 1%, within in lightly sheared pillow salvages, 1-2%. Gradual LC at 70-80 TCA. @167.7 to 168 Milky Qtz/ankerite veinlet with sharp lower and upper contacts trace sulphides, within,	E24611	145.00	145.90	0.90	0.01
			E24612	145.90	147.00	1.10	0.00
			E24613	147.00	147.50	0.50	0.00
			E24614	147.50	148.50	1.00	0.00
			E24615	148.50	149.00	0.50	0.00
			E24616	149.00	150.20	1.20	0.00
			E24617	150.20	151.20	1.00	0.01
			E24619	151.20	151.70	0.50	0.01
			E24620	151.70	152.20	0.50	0.01
			E24621	152.20	153.00	0.80	0.00
			E24622	153.00	154.50	1.50	0.01
			E24623	154.50	155.50	1.00	0.01
			E24624	155.50	156.00	0.50	0.00
			E24625	156.00	156.50	0.50	0.00
			E24626	156.50	157.40	0.90	0.00
			E24627	157.40	158.90	1.50	0.00
			E24629	158.90	159.50	0.60	0.00
			E24630	159.50	160.30	0.80	0.00
			E24631	160.30	160.80	0.50	0.00
			E24632	160.80	161.80	1.00	0.01
			E24633	161.80	162.50	0.70	0.00
			E24634	162.50	163.20	0.70	0.00
			E24635	163.20	163.70	0.50	0.00
			E24636	163.70	164.70	1.00	0.00
			E24637	164.70	165.20	0.50	0.01
			E24639	165.20	166.20	1.00	0.01
			E24640	166.20	167.30	1.10	0.01
			E24641	167.30	168.00	0.70	0.01
			E24642	168.00	169.20	1.20	0.05
			E24643	169.20	169.70	0.50	0.01
			E24644	169.70	170.70	1.00	0.04
			E24645	170.70	172.00	1.30	0.01
			E24646	172.00	172.50	0.50	0.00
			E24647	172.50	173.10	0.60	0.01

Hole Number: **CZ17-008**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
173.10	208.80	VMP, VOLCANIC MASSIVE PILLOWED Similar to 99.5 to 120.3 Pillow salvages more frequent ranging in size from 1cm to 30cm, Altered with epidote and sericite, varioles ranging in size from 3mm to 3cm, Sulphides disseminated throughout at 1-2% with clustered zones occurring in the pillow salvages. Foliation at 50 to 60 tca, fractures in filled with epidote spaced every 3-10cm, along foliation, Sharp LC sharp irregular contact at 50 to 60 degrees TCA Starting @ 203 becoming more massive with variolitic texture dying out. Epidote fracture infills cross cutting at 0 to 10 degrees tCA, ~1mm in size.	E24649	173.10	173.60	0.50	0.01
			E24650	173.60	174.10	0.50	0.00
			E24651	174.10	174.90	0.80	0.06
			E24652	174.90	175.40	0.50	0.03
			E24653	207.00	207.70	0.70	0.01
			E24654	207.70	208.30	0.60	0.02
			E24655	208.30	208.80	0.50	0.04
208.80	223.20	ISO, SYENITIC INTRUSIVE Pinkish-brown syenite with whitish-grey Qtz-alb veinlets/sweats throughout. Dark green chlorite patchy. Whitish sub-rounded to sub-angular feldspar phenocrysts pervasive and supported by surrounding brown-pink syenite. Qtz-carb fractures sporadic throughout cross cutting at 50 to 60 TCA with reddish brown halo around. Trace fine-grained and disseminated sulphides throughout. Sharp LCA cutting at 50 - 60 degrees.	E24656	208.80	209.80	1.00	0.11
			E24657	209.80	210.40	0.60	0.04
			E24659	210.40	211.00	0.60	0.02
			E24660	211.00	211.90	0.90	0.07
			E24661	211.90	212.90	1.00	0.02
			E24662	212.90	213.40	0.50	0.10
			E24663	220.90	221.40	0.50	0.17
			E24664	221.40	222.00	0.60	0.15
			E24665	222.00	222.70	0.70	0.12
			E24666	222.70	223.20	0.50	0.36
223.20	267.00	VMP, VOLCANIC MASSIVE PILLOWED Similar to 99.5 to 120.30m Lightly sheared VMP with variolitic texture, along salvages, foliation 50 to 60 degrees TCA, Qtz-Carb veinlets sporadic throughout ranging in widths from 1cm to 7cm angled at 50 to 60 TCA.	E24667	223.20	223.70	0.50	0.25
			E24669	223.70	224.40	0.70	0.06
			E24670	224.40	225.10	0.70	0.01
			E24671	225.10	225.60	0.50	0.02
			E24672	225.60	226.20	0.60	0.00
			E24673	226.20	227.20	1.00	0.00
			E24674	264.00	265.00	1.00	0.00
			E24675	265.00	265.90	0.90	0.06
			E24676	265.90	266.40	0.50	0.04
			E24677	266.40	267.00	0.60	0.16
267.00	267.70	ZBX, FAULT BRECCIA Dark green to greyish green, Clast supported, Clasts sub rounded to sub angular, sulphides are within the matrix at 2-4%, Clasts are made up of mafic vmp and albite/silica altered clasts, with calcitic stringers ranging in size from 5mm to 1cm cutting across at 50-60 degrees, foliation is 50-60 degrees TCA, Sharp UC/LC at direction of foliation. Calcite stringers cutting Gouge at 267.0m	E24678	267.00	267.70	0.70	0.05

Hole Number: **CZ17-008**

Units: METRIC

Detailed Lithology		Lithology	Assay Data				
From	To		Sample Number	From	To	Length	Au_gpt_Final
267.70	300.00	VMP, VOLCANIC MASSIVE PILLOWED Dark green, light green. Sparse pillow salvages spaced every 1 to 3m, with widths varying from 3cm to 7cm, Salvages are made up of chlorite sericite, and epidote ,Tensional fractures of calcite/epidote every 3- 10 cm at 50 to 60 degrees TCA, being cut across perpendicular by calcitic epidote fractures, becoming less prominent down hole to 10 to 30cm., 2mm to 5mm in width, with bleached halows surrounding them. Sulphides trace to 1% finely disseminated throughout From 279.6- 280m milky white Qtz vein with sharp UC at 50 to 60 degrees TCA and a gradula lower contact with altered pillow salvage,with sericite epidote and chlorite,	E24680	267.70	268.20	0.50	0.00
			E24681	268.20	269.20	1.00	0.00
			E24682	269.20	270.00	0.80	0.00
			E24683	270.00	270.70	0.70	0.03
			E24684	277.90	278.50	0.60	0.01
			E24685	278.50	279.00	0.50	0.00
			E24686	279.00	279.50	0.50	0.00
			E24687	279.50	280.00	0.50	0.00
			E24689	280.00	280.70	0.70	0.00
			E24690	280.70	281.70	1.00	0.00

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24574	63.80	64.70	0.0050
E24575	64.70	65.20	0.0100
E24576	65.20	65.70	0.0025
E24577	65.70	66.90	0.0025
E24579	66.90	67.40	0.0025
E24580	67.40	68.00	0.0025
E24581	68.00	68.50	0.0025
E24582	93.70	94.20	0.0025
E24583	94.20	95.00	0.0025
E24584	95.00	96.00	0.0025
E24585	96.00	97.20	0.0025
E24586	97.20	98.00	0.0080
E24587	98.00	98.50	0.0025
E24589	98.50	99.00	0.0025
E24590	99.00	99.50	0.0080
E24591	99.50	100.10	0.0025
E24592	100.10	100.60	0.0090
E24593	100.60	101.60	0.0025
E24594	101.60	102.10	0.0025
E24595	118.80	119.30	0.0025
E24596	119.30	119.80	0.0025
E24597	119.80	120.30	0.0120
E24599	120.30	120.80	0.0025
E24600	120.80	121.70	0.0025
E24601	121.70	122.20	0.0050
E24602	122.20	122.70	0.0280

Hole Number: **CZ17-008**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24603	122.70	123.50	0.0060
E24604	123.50	124.00	0.1570
E24605	124.00	124.60	0.0500
E24606	124.60	125.10	0.0025
E24607	143.10	144.00	0.0140
E24609	144.00	144.50	0.0025
E24610	144.50	145.00	0.0025
E24611	145.00	145.90	0.0070
E24612	145.90	147.00	0.0025
E24613	147.00	147.50	0.0025
E24614	147.50	148.50	0.0025
E24615	148.50	149.00	0.0025
E24616	149.00	150.20	0.0025
E24617	150.20	151.20	0.0070
E24619	151.20	151.70	0.0070
E24620	151.70	152.20	0.0110
E24621	152.20	153.00	0.0025
E24622	153.00	154.50	0.0060
E24623	154.50	155.50	0.0060
E24624	155.50	156.00	0.0025
E24625	156.00	156.50	0.0025
E24626	156.50	157.40	0.0025
E24627	157.40	158.90	0.0025
E24629	158.90	159.50	0.0025
E24630	159.50	160.30	0.0025
E24631	160.30	160.80	0.0025
E24632	160.80	161.80	0.0070
E24633	161.80	162.50	0.0025
E24634	162.50	163.20	0.0025
E24635	163.20	163.70	0.0025
E24636	163.70	164.70	0.0025
E24637	164.70	165.20	0.0060
E24639	165.20	166.20	0.0070
E24640	166.20	167.30	0.0070
E24641	167.30	168.00	0.0060
E24642	168.00	169.20	0.0530
E24643	169.20	169.70	0.0070
E24644	169.70	170.70	0.0390
E24645	170.70	172.00	0.0060

Hole Number: **CZ17-008**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type	ASSAY		
E24646	172.00	172.50	0.0025
E24647	172.50	173.10	0.0110
E24649	173.10	173.60	0.0100
E24650	173.60	174.10	0.0025
E24651	174.10	174.90	0.0600
E24652	174.90	175.40	0.0340
E24653	207.00	207.70	0.0080
E24654	207.70	208.30	0.0220
E24655	208.30	208.80	0.0440
E24656	208.80	209.80	0.1070
E24657	209.80	210.40	0.0420
E24659	210.40	211.00	0.0150
E24660	211.00	211.90	0.0660
E24661	211.90	212.90	0.0190
E24662	212.90	213.40	0.0960
E24663	220.90	221.40	0.1670
E24664	221.40	222.00	0.1460
E24665	222.00	222.70	0.1210
E24666	222.70	223.20	0.3630
E24667	223.20	223.70	0.2510
E24669	223.70	224.40	0.0620
E24670	224.40	225.10	0.0140
E24671	225.10	225.60	0.0180
E24672	225.60	226.20	0.0025
E24673	226.20	227.20	0.0025
E24674	264.00	265.00	0.0025
E24675	265.00	265.90	0.0620
E24676	265.90	266.40	0.0370
E24677	266.40	267.00	0.1630
E24678	267.00	267.70	0.0460
E24680	267.70	268.20	0.0025
E24681	268.20	269.20	0.0025
E24682	269.20	270.00	0.0025
E24683	270.00	270.70	0.0270
E24684	277.90	278.50	0.0070
E24685	278.50	279.00	0.0025
E24686	279.00	279.50	0.0025
E24687	279.50	280.00	0.0025
E24689	280.00	280.70	0.0025

Hole Number: **CZ17-008**

Units: METRIC

Samples

Sample Number	From	To	Au_gpt_Final
Sample Type ASSAY			
E24690	280.70	281.70	0.0025



Appendix 4

Assay Certificates

***** Certificate of analysis *****

Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510


Date : 2017/08/08

Page : 1 of 1

Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : P. Perlock	Folder : 48872
	Your order number : 4500055071
	Project : C.Z
	Total number of samples : 13

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005	Au FA-GRAV g/t 0.03
E24259	0.009	0.010	----- N.A
E24260	0.008		----- N.A
Blk-01	<0.005		
E24261	0.011		----- N.A
E24262	0.024		----- N.A
E24263	0.307		----- N.A
SE86-01	0.581		
E24264	0.049		----- N.A
E24265	0.857		----- N.A
E24266	4.229		----- N.A
E24267	1.958		----- N.A
E24268	0.340		----- N.A
E24269	0.035		----- N.A
E24270	0.027		----- N.A
E24271	0.022	0.018	----- N.A

N.A Non applicable



 Joe Landers, Manager

*** Certificate of analysis ***

Laboratoire Expert Inc.

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48975
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E241136	<0.005	<0.005
SE86-01	0.591	
E241137	<0.005	
E241138	<0.005	
E241139	<0.005	
E241140	<0.005	
E241141	0.023	
Blk-01	<0.005	
E241142	<0.005	
E241143	<0.005	
E241144	0.106	
SG84-01	1.017	
E241145	0.324	
E241146	0.035	
E241147	<0.005	
E241148	2.216	2.198
E241149	0.124	
E241150	0.151	
E241151	<0.005	
E241152	<0.005	



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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48975 Your order number : 4500055071 Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E241153	<0.005	
E241154	0.005	
E241155	<0.005	
E241156	0.007	
E241157	<0.005	
E241158	<0.005	
E241159	<0.005	
E241160	0.013	0.011
E241161	0.009	
E241162	<0.005	
E241163	<0.005	
E241164	<0.005	
E241165	<0.005	
E241166	<0.005	
E241167	<0.005	
E241168	0.877	
Blk-02	<0.005	
E241169	0.009	
E241170	<0.005	
E241171	0.017	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48975 Your order number : 4500055071 Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
SE86-02	0.600	
E241172	<0.005	<0.005
E241173	<0.005	
E241174	<0.005	
E241175	<0.005	
E241176	<0.005	
E241177	<0.005	
E241178	<0.005	
E241179	<0.005	
E241180	<0.005	
E241181	<0.005	
E241182	<0.005	
E241183	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48976
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24184	<0.005	<0.005
E24185	<0.005	
E24186	0.012	
E24187	0.029	
E24188	0.337	
E24189	0.013	
E24190	0.011	
E24191	0.018	
Blk-01	<0.005	
E24192	0.015	
E24193	0.012	
E24194	0.022	
SG84-01	1.025	
E24195	0.137	
E24196	0.096	0.100
E24197	0.094	
E24198	<0.005	
E24199	0.280	
E24200	0.055	
E24201	0.205	



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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48976
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24202	0.017	
E24203	0.028	
E24204	0.150	
E24205	0.013	
E24206	0.012	
E24207	0.013	
E24208	0.862	0.870
E24209	0.032	
E24210	0.084	
E24211	0.080	
E24212	0.109	
E24213	0.045	
E24214	0.017	
E24215	0.017	
E24216	0.012	
E24217	0.026	
E24218	<0.005	
Blk-02	<0.005	
E24219	0.028	
E24220	0.013	0.012

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48976
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24221	0.019	
SE86-01	0.595	
E24222	0.009	
E24223	0.012	
E24224	0.010	
E24225	0.010	
E24226	0.008	
E24227	0.011	
E24228	0.344	
E24229	0.012	
E24230	0.029	
E24231	0.013	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48977
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24232	0.007	0.009
E24233	0.007	
E24234	0.007	
E24235	0.101	
E24236	0.044	
E24237	0.011	
E24238	<0.005	
E24239	0.007	
E24240	0.018	
E24241	0.005	
Blk-01	<0.005	
E24242	0.009	
E24243	0.015	
E24244	0.024	0.022
SG84-01	1.025	
E24245	0.044	
E24246	0.015	
E24247	0.016	
E24248	2.266	
E24249	0.039	



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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48977
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24250	0.022	
E24251	0.040	
E24252	0.128	
E24253	0.067	
E24254	0.177	
E24255	0.028	
E24256	0.028	0.029
E24257	0.015	
E24258	<0.005	
E24272	0.008	
E24273	0.037	
E24274	0.012	
E24275	0.009	
E24276	0.014	
E24277	0.011	
E24278	<0.005	
E24279	0.008	
E24280	0.009	
E24281	0.010	0.008
Blk-02	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : Mike Clarke	Folder : 48977 Your order number : 4500055071 Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24282	0.012	
E24283	0.014	
E24284	0.010	
SE86-01	0.586	
E24285	0.008	
E24286	0.011	
E24287	0.656	
E24288	0.864	
E24289	1.643	
E24290	0.033	
E24291	0.017	
E24292	0.027	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49007
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 49

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24293	0.051	0.051
SE86-01	0.584	
E24294	0.142	
E24295	0.029	
E24296	0.020	
E24297	0.039	
E24298	<0.005	
E24299	0.037	
E24300	0.129	
E24301	3.223	
E24302	4.337	
E24303	0.399	
E24304	0.692	
E24305	0.036	0.037
E24306	0.013	
E24307	0.014	
E24308	2.243	
E24309	0.031	
E24310	0.015	
E24311	0.008	



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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49007
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 49

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24312	0.065	
E24313	0.027	
E24314	0.020	
E24315	0.113	
E24316	1.391	
E24317	1.586	1.522
Blk-01	<0.005	
E24318	<0.005	
E24319	0.023	
E24320	0.012	
SG84-01	1.017	
E24321	0.028	
E24322	0.205	
E24323	1.684	
E24324	0.242	
E24325	3.326	
E24326	0.200	
E24327	0.312	
E24328	0.344	
E24329	0.150	0.145

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49007 Your order number : 4500055071 Project : CZ
	Total number of samples : 49

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24330	0.025	
E24331	0.024	
E24332	0.012	
E24333	0.013	
E24334	0.014	
E24335	0.006	
E24336	0.007	
E24337	0.012	
E24338	<0.005	
E24339	0.012	
E24340	0.005	
E24341	<0.005	0.005

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49008
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 49

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005	Au FA-GRAV g/t 0.03	Au-Dup FA-GRAV g/t 0.03
E24342	0.010	0.007		
SE86-01	0.595			
E24343	0.007			
E24344	0.022			
E24345	0.009			
E24346	0.011			
E24347	0.007			
E24348	0.862			
E24349	0.026			
E24350	0.012			
E24351	0.011			
E24352	0.035			
E24353	0.014			
E24354	0.041	0.038		
E24355	0.078			
E24356	0.027			
E24357	0.022			
E24358	<0.005			
E24359	0.041			
E24360	0.031			

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49008
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 49

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005	Au FA-GRAV g/t 0.03	Au-Dup FA-GRAV g/t 0.03
E24361	0.010			
E24362	0.011			
E24363	0.050			
E24364	0.101			
E24365	0.009			
E24366	0.017	0.013		
Blk-01	<0.005			
E24367	0.013			
E24368	2.232			
E24369	0.021			
SG84-01	1.023			
E24370	0.024			
E24371	0.015			
E24372	0.033			
E24373	0.010			
E24374	0.012			
E24375	0.010			
E24376	0.038			
E24377	0.099			
E24378	<0.005	<0.005		

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49008
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 49

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005	Au FA-GRAV g/t 0.03	Au-Dup FA-GRAV g/t 0.03
E24379	----- >DL		21.81	22.87
E24380	0.087			
E24381	0.092			
E24382	0.017			
E24383	0.019			
E24384	0.005			
E24385	<0.005			
E24386	0.027			
E24387	<0.005			
E24388	0.850			
E24389	0.012			
E24390	0.006	0.007		

>DL Value greater than detection limit

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49009
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24391	<0.005	<0.005
SE86-01	0.587	
E24392	<0.005	
E24393	<0.005	
E24394	<0.005	
E24395	<0.005	
E24396	<0.005	
E24397	<0.005	
E24398	<0.005	
E24399	0.007	
E24400	0.008	
E24401	<0.005	
E24402	<0.005	
E24403	<0.005	<0.005
E24404	<0.005	
E24405	<0.005	
E24406	<0.005	
E24407	0.015	
E24408	0.336	
E24409	0.147	



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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49009
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24410	0.037	
E24411	0.060	
E24412	1.112	
E24413	0.036	
E24414	0.015	
E24415	0.019	0.016
Blk-01	<0.005	
E24416	<0.005	
E24417	0.006	
E24418	<0.005	
SG84-01	1.015	
E24419	0.009	
E24420	<0.005	
E24421	0.007	
E24422	0.011	
E24423	<0.005	
E24424	0.033	
E24425	<0.005	
E24426	0.013	
E24427	0.008	0.006

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49009 Your order number : 4500055071 Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24428	0.858	
E24429	<0.005	
E24430	<0.005	
E24431	<0.005	
E24432	<0.005	
E24433	<0.005	
E24434	<0.005	
E24435	<0.005	
E24436	<0.005	
E24437	0.010	
E24438	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49010
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
Blk-01	<0.005	
E24439	0.006	0.008
E24440	0.009	
E24441	<0.005	
SE86-01	0.589	
E24442	0.018	
E24443	<0.005	
E24444	<0.005	
E24445	0.006	
E24446	0.011	
E24447	<0.005	
E24448	2.192	
E24449	<0.005	
E24450	0.078	
E24451	0.008	0.010
E24452	<0.005	
E24453	<0.005	
E24454	0.006	
E24455	<0.005	
E24456	<0.005	



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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49010 Your order number : 4500055071 Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24457	<0.005	
E24458	<0.005	
E24459	<0.005	
E24460	0.008	
E24461	<0.005	
E24462	0.028	
E24463	<0.005	0.005
E24464	<0.005	
E24465	<0.005	
Blk-02	<0.005	
E24466	<0.005	
E24467	<0.005	
E24468	0.856	
SG84-01	1.024	
E24469	<0.005	
E24470	<0.005	
E24471	<0.005	
E24472	<0.005	
E24473	<0.005	
E24474	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49010 Your order number : 4500055071 Project : CZ
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24475	0.010	0.007
E24476	0.006	
E24477	0.006	
E24478	<0.005	
E24479	<0.005	
E24480	0.007	
E24481	0.007	
E24482	0.009	
E24483	0.019	
E24484	0.008	
E24485	0.077	
E24486	0.060	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49011
	Your order number : 4500055071
	Project : CZ
	Total number of samples : 27

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24487	0.080	0.078
E24488	1.602	
Blk-01	<0.005	
E24489	0.329	
E24490	0.009	
E24491	0.026	
SE86-01	0.607	
E24492	0.085	
E24493	0.227	
E24494	0.689	
E24495	0.132	
E24496	1.234	
E24497	0.078	
E24498	<0.005	
E24499	0.006	0.007
E24500	0.547	
E24501	0.139	
E24502	0.009	
E24503	0.008	
E24504	0.034	

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Client : Kirkland Lake Gold/ Holt Exploration Project	
Addressee : REGIONAL EXPLORATION	Folder : 49011 Your order number : 4500055071 Project : CZ
	Total number of samples : 27

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24505	0.008	
E24506	0.023	
E24507	0.065	
E24508	2.191	
E24509	0.022	
E24510	0.020	
E24511	0.401	0.418
E24512	0.101	
E24513	0.012	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ-17-006-01
Addressee : REGIONAL EXPLORATION	Folder : 49156
	Your order number : 4500055071
	Project : CAMBELL ZONE
Total number of samples : 48	

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24514	<0.005	<0.005
E24515	0.012	
E24516	0.060	
Blk-01	<0.005	
E24517	0.010	
E24518	<0.005	
E24519	<0.005	
SG84-01	1.032	
E24520	0.006	
E24521	<0.005	
E24522	<0.005	
E24523	0.014	
E24524	<0.005	
E24525	0.010	
E24526	0.005	0.007
E24527	0.006	
E24528	0.862	
E24529	<0.005	
E24530	<0.005	
E24531	<0.005	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ-17-006-01
Addressee : REGIONAL EXPLORATION	Folder : 49156
	Your order number : 4500055071
	Project : CAMBELL ZONE
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24532	<0.005	
E24533	0.008	
E24534	0.006	
E24535	0.006	
E24536	0.005	
E24537	<0.005	
E24538	<0.005	<0.005
E24539	<0.005	
E24540	<0.005	
E24541	<0.005	
E24542	<0.005	
E24543	0.011	
Blk-02	<0.005	
E24544	0.014	
E24545	0.008	
E24546	0.018	
SE86-02	0.583	
E24547	0.007	
E24548	2.178	
E24549	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ-17-006-01
Addressee : REGIONAL EXPLORATION	Folder : 49156
	Your order number : 4500055071
	Project : CAMBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24550	<0.005	<0.005
E24551	0.109	
E24552	0.005	
E24553	0.018	
E24554	0.013	
E24555	0.030	
E24556	0.020	
E24557	0.007	
E24558	<0.005	
E24559	0.035	
E24560	0.016	
E24561	0.006	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ-17-006-02
Addressee : REGIONAL EXPLORATION	Folder : 49157
	Your order number : 4500055071
	Project : CAMBELL ZONE
	Total number of samples : 12

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24562	0.010	0.009
E24563	0.039	
E24564	<0.005	
E24565	0.056	
E24566	0.010	
Blk-01	<0.005	
E24567	<0.005	
E24568	0.846	
E24569	<0.005	
SG84-01	1.023	
E24570	0.007	
E24571	0.029	
E24572	<0.005	
E24573	0.019	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ1700801
Addressee : REGIONAL EXPLORATION	Folder : 49211
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24574	0.005	0.006
E24575	0.010	
E24576	<0.005	
E24577	<0.005	
E24578	<0.005	
E24579	<0.005	
E24580	<0.005	
E24581	<0.005	
SG84-01	1.022	
E24582	<0.005	
E24583	<0.005	
E24584	<0.005	
E24585	<0.005	
E24586	0.008	0.006
Blk-01	<0.005	
E24587	<0.005	
E24588	0.346	
E24589	<0.005	
SE86-01	0.587	
E24590	0.008	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ1700801
Addressee : REGIONAL EXPLORATION	Folder : 49211
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24591	<0.005	
E24592	0.009	
E24593	<0.005	
E24594	<0.005	
E24595	<0.005	
E24596	<0.005	
E24597	0.012	
E24598	<0.005	<0.005
E24599	<0.005	
E24600	<0.005	
E24601	0.005	
E24602	0.028	
E24603	0.006	
E24604	0.157	
E24605	0.050	
E24606	<0.005	
E24607	0.014	
E24608	<0.005	
E24609	<0.005	
E24610	<0.005	<0.005

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ1700801
Addressee : REGIONAL EXPLORATION	Folder : 49211
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24611	0.007	
E24612	<0.005	
E24613	<0.005	
Blk-02	<0.005	
E24614	<0.005	
E24615	<0.005	
E24616	<0.005	
SG84-02	1.018	
E24617	0.007	
E24618	2.190	
E24619	0.007	
E24620	0.011	
E24621	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00802
Addressee : REGIONAL EXPLORATION	Folder : 49212
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24622	0.006	0.005
E24623	0.006	
E24624	<0.005	
E24625	<0.005	
E24626	<0.005	
E24627	<0.005	
E24628	<0.005	
E24629	<0.005	
E24630	<0.005	
E24631	<0.005	
E24632	0.007	
E24633	<0.005	
E24634	<0.005	<0.005
E24635	<0.005	
E24636	<0.005	
Blk-01	<0.005	
E24637	0.006	
E24638	0.878	
E24639	0.007	
SE86-01	0.606	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00802
Addressee : REGIONAL EXPLORATION	Folder : 49212
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24640	0.007	
E24641	0.006	
E24642	0.053	
E24643	0.007	
E24644	0.039	
E24645	0.006	
E24646	<0.005	0.005
E24647	0.011	
E24648	<0.005	
E24649	0.010	
E24650	<0.005	
E24651	0.060	
E24652	0.034	
E24653	0.008	
E24654	0.022	
E24655	0.044	
E24656	0.107	
E24657	0.042	
E24658	2.224	2.126
E24659	0.015	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00802
Addressee : REGIONAL EXPLORATION	Folder : 49212
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24660	0.066	
E24661	0.019	
E24662	0.096	
E24663	0.167	
Blk-02	<0.005	
E24664	0.146	
E24665	0.121	
E24666	0.363	
SG84-01	1.023	
E24667	0.251	
E24668	<0.005	
E24669	0.062	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00803
Addressee : REGIONAL EXPLORATION	Folder : 49213
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 21

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24670	0.014	0.017
E24671	0.018	
E24672	<0.005	
E24673	<0.005	
E24674	<0.005	
E24675	0.062	
E24676	0.037	
E24677	0.163	
E24678	0.046	
E24679	0.334	
E24680	<0.005	
E24681	<0.005	
E24682	<0.005	<0.005
E24683	0.027	
E24684	0.007	
E24685	<0.005	
E24686	<0.005	
Blk-01	<0.005	
E24687	<0.005	
E24688	<0.005	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00803
Addressee : REGIONAL EXPLORATION	Folder : 49213
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 21

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24689	<0.005	
SE86-01	0.592	
E24690	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00701
Addressee : REGIONAL EXPLORATION	Folder : 49214
	Your order number : 4500055071
	Project : CAMPBELL ZONE
Total number of samples : 48	

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24691	0.008	0.007
E24692	0.008	
E24693	0.034	
E24694	0.530	
E24695	0.067	
E24696	0.632	
E24697	<0.005	
E24698	2.188	
E24699	0.016	
E24700	0.068	
E24701	0.038	
E24702	0.024	
E24703	0.046	0.051
E24704	0.459	
E24705	<0.005	
E24706	0.014	
E24707	0.018	
E24708	<0.005	
E24709	<0.005	
E24710	0.035	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00701
Addressee : REGIONAL EXPLORATION	Folder : 49214
	Your order number : 4500055071
	Project : CAMPBELL ZONE
Total number of samples : 48	

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24711	0.032	
Blk-01	<0.005	
E24712	0.012	
E24713	0.014	
E24714	0.030	
SG84-01	1.028	
E24715	0.016	0.013
E24716	<0.005	
E24717	0.006	
E24718	0.852	
E24719	0.013	
E24720	0.018	
E24721	0.044	
E24722	0.028	
E24723	<0.005	
E24724	<0.005	
E24725	<0.005	
E24726	0.023	
E24727	<0.005	<0.005
E24728	<0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00701
Addressee : REGIONAL EXPLORATION	Folder : 49214
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24729	0.019	
E24730	0.050	
E24731	<0.005	
E24732	0.378	
E24733	0.016	
E24734	0.019	
E24735	0.011	
E24736	0.019	
E24737	0.013	
E24738	2.228	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00702
Addressee : REGIONAL EXPLORATION	Folder : 49215
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24739	0.009	0.008
E24740	<0.005	
E24741	0.010	
E24742	0.072	
E24743	0.053	
E24744	0.010	
E24745	0.033	
E24746	0.006	
E24747	<0.005	
E24748	0.009	
E24749	0.015	
E24750	0.018	
E24751	0.056	0.052
E24752	<0.005	
E24753	0.011	
E24754	0.011	
E24755	0.006	
E24756	<0.005	
E24757	0.012	
E24758	0.894	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00702
Addressee : REGIONAL EXPLORATION	Folder : 49215
	Your order number : 4500055071
	Project : CAMPBELL ZONE
Total number of samples : 48	

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24759	0.007	
E24760	<0.005	
E24761	<0.005	
Blk-01	<0.005	
E24762	<0.005	
E24763	<0.005	<0.005
E24764	<0.005	
SG84-01	1.033	
E24765	<0.005	
E24766	0.008	
E24767	<0.005	
E24768	<0.005	
E24769	<0.005	
E24770	<0.005	
E24771	0.010	
E24772	0.008	
E24773	0.075	
E24774	<0.005	
E24775	<0.005	0.005
E24776	0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00702
Addressee : REGIONAL EXPLORATION	Folder : 49215
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24777	0.006	
E24778	2.182	
E24779	<0.005	
E24780	0.010	
E24781	<0.005	
E24782	0.008	
E24783	<0.005	
E24784	<0.005	
E24785	<0.005	
E24786	0.005	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00703
Addressee : REGIONAL EXPLORATION	Folder : 49216
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24787	0.007	0.009
SE86-01	0.588	
E24788	<0.005	
E24789	<0.005	
E24790	<0.005	
E24791	<0.005	
E24792	<0.005	
E24793	<0.005	
E24794	<0.005	
E24795	<0.005	
E24796	<0.005	
E24797	<0.005	
E24798	2.224	
E24799	0.010	0.009
E24800	<0.005	
E24801	<0.005	
E24802	0.009	
E24803	0.009	
E24804	0.008	
E24805	0.006	



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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00703
Addressee : REGIONAL EXPLORATION	Folder : 49216
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24806	0.009	
E24807	<0.005	
E24808	0.011	
E24809	<0.005	
E24810	<0.005	
E24811	<0.005	<0.005
Blk-01	<0.005	
E24812	0.021	
E24813	0.076	
E24814	0.018	
SG84-01	1.031	
E24815	0.008	
E24816	0.008	
E24817	0.022	
E24818	0.354	
E24819	0.007	
E24820	0.006	
E24821	0.009	
E24822	0.008	
E24823	0.012	0.012

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00703
Addressee : REGIONAL EXPLORATION	Folder : 49216
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 48

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24824	0.006	
E24825	0.015	
E24826	0.026	
E24827	0.009	
E24828	<0.005	
E24829	0.015	
E24830	0.043	
E24831	0.128	
E24832	0.019	
E24833	0.080	
E24834	0.011	

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Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00704
Addressee : REGIONAL EXPLORATION	Folder : 49217
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 20

<u>Designation</u>	<u>Au FA-AA ppm 0.005</u>	<u>Au-Dup FA-AA ppm 0.005</u>
E24835	0.024	0.025
E24836	0.036	
E24837	0.018	
SE86-01	0.585	
E24838	0.854	
E24839	0.010	
E24840	0.006	
E24841	0.021	
E24842	0.020	
E24843	0.280	
E24844	0.248	
E24845	0.158	
E24846	1.165	
E24847	0.054	0.058
E24848	<0.005	
E24849	0.036	
E24850	0.009	
E24851	0.019	
E24852	0.036	
E24853	0.021	



Joe Landers, Manager

***** Certificate of analysis *****

Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Date : 2017/09/11

Page : 2 of 2

Client : Kirkland Lake Gold/ Holt Exploration Project	CZ00704
Addressee : REGIONAL EXPLORATION	Folder : 49217
	Your order number : 4500055071
	Project : CAMPBELL ZONE
	Total number of samples : 20

<u>Designation</u>	Au FA-AA ppm 0.005	Au-Dup FA-AA ppm 0.005
E24854	0.020	



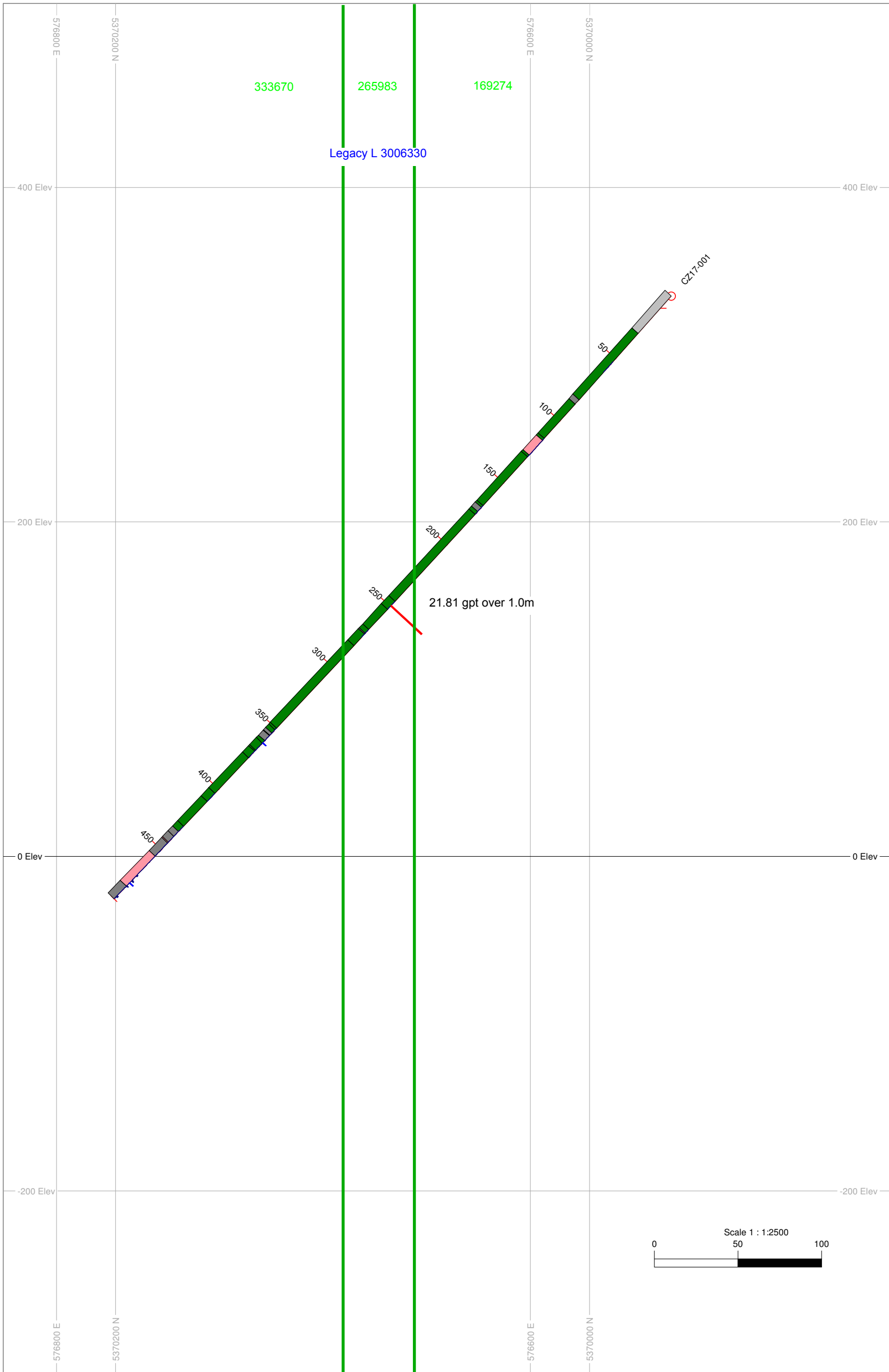
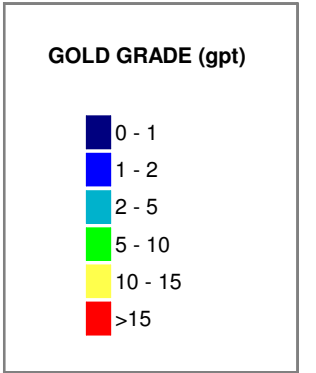
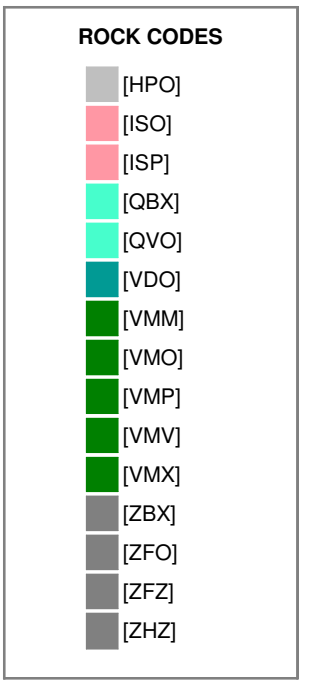
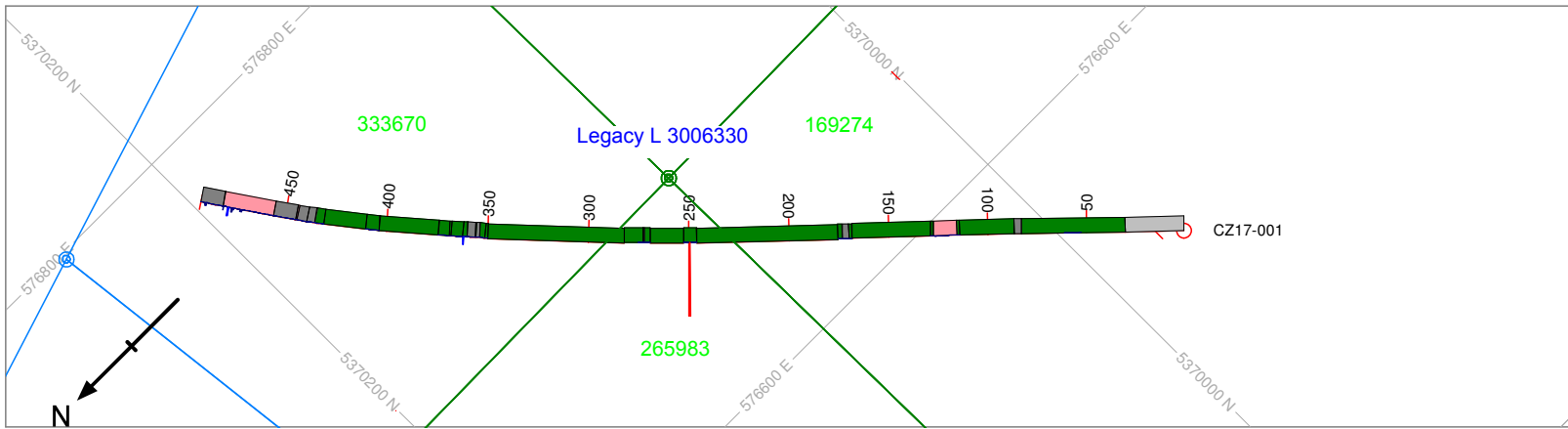
Appendix 5

Drill Hole Sections

Table 3

LITHOLOGICAL LEGEND

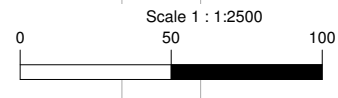
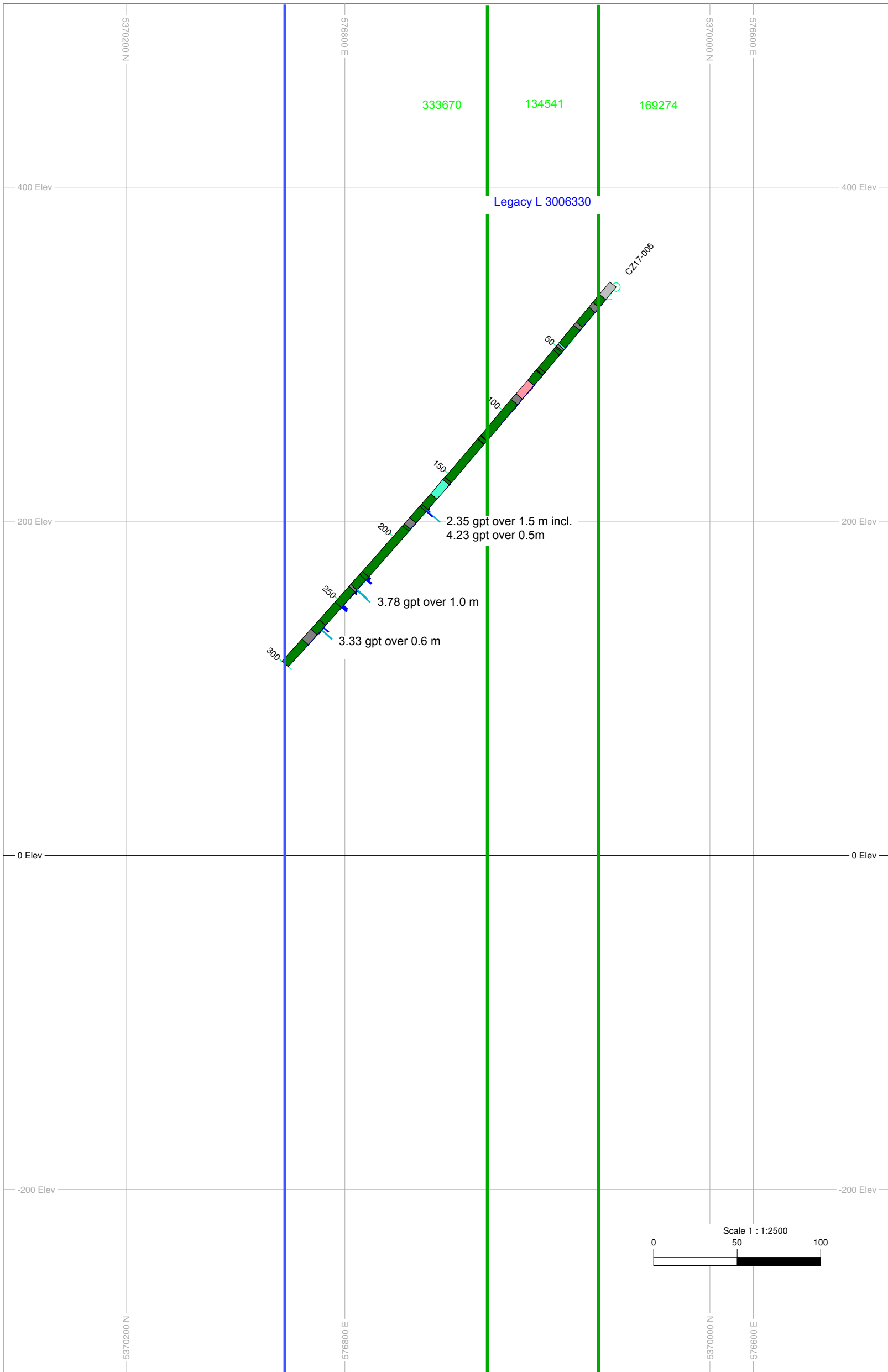
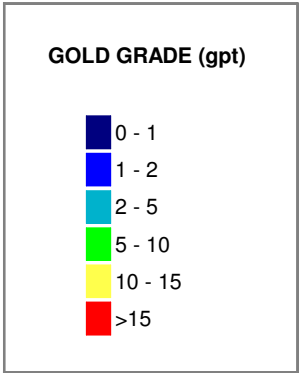
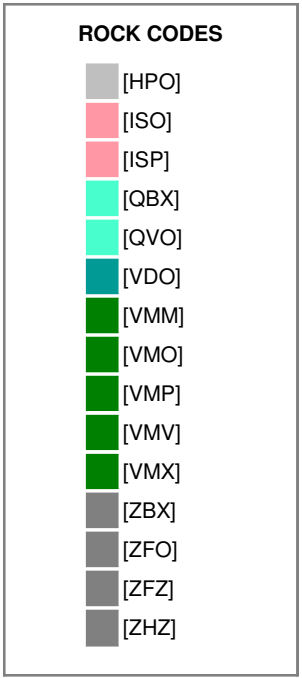
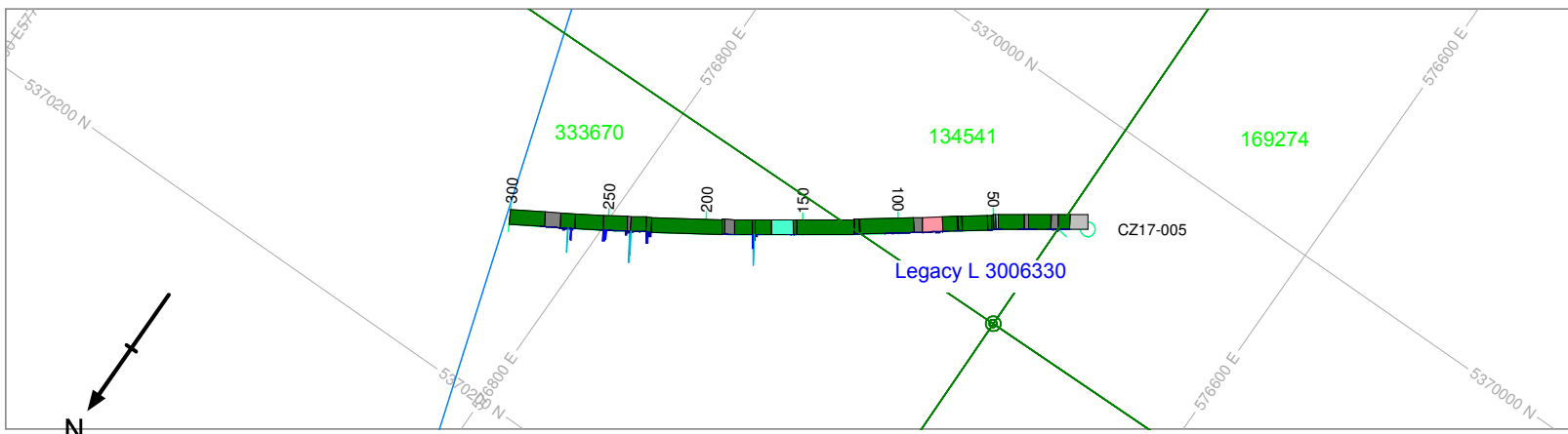
COLOUR	ROCK CODE	DESCRIPTION
	HPO	OVERBURDEN
	ISO	SYENITIC INTRUSIVE
	ISP	PORPHYRITIC SYENITE
	QBX	QUARTZ BRECCIA
	QVO	QUARTZ VEINS
	VDO	DIORITE/DOLERITE
	VMM	MAFIC VOLCANIC MASSIVE
	VMO	MAFIC VOLCANIC UNDIVIDED
	VMP	MAFIC VOLCANIC PILLOWED
	VMV	MAFIC VOLCANIC VARIOLITIC
	VMX	MAFIC BRECCIA
	ZBX	FAULT BRECCIA
	ZFO	FAULT
	ZFZ	FAULT ZONE
	ZHZ	SHEAR



CZ17-001		
Scale 1:2500	Date: 27 Nov 2018	Au Scale : 1mm=1gpt
Azimuth 44°	Dip -48.5°	EOH 491m

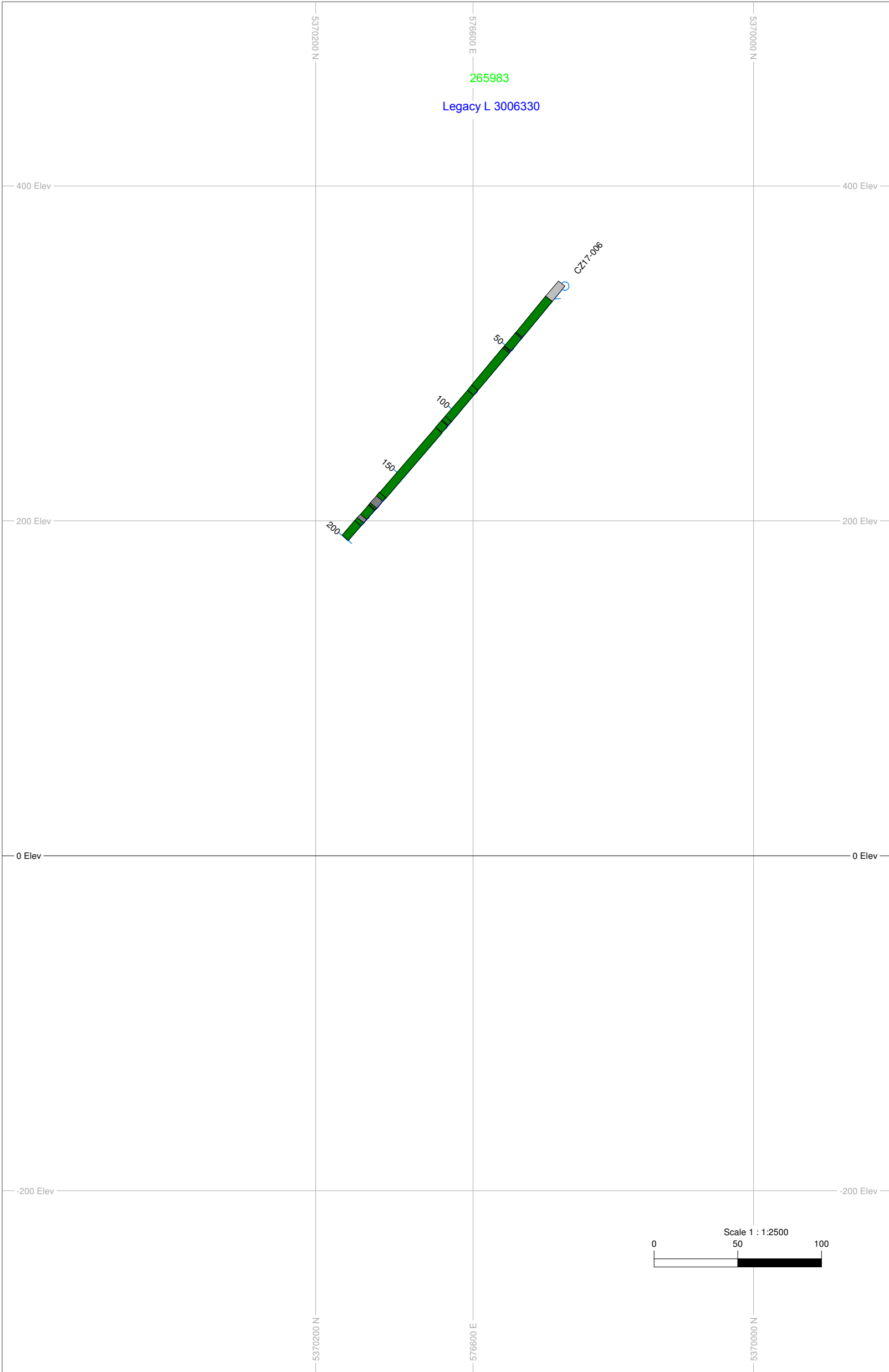
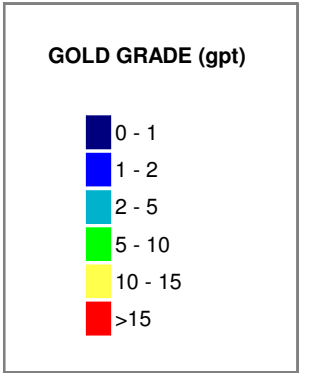
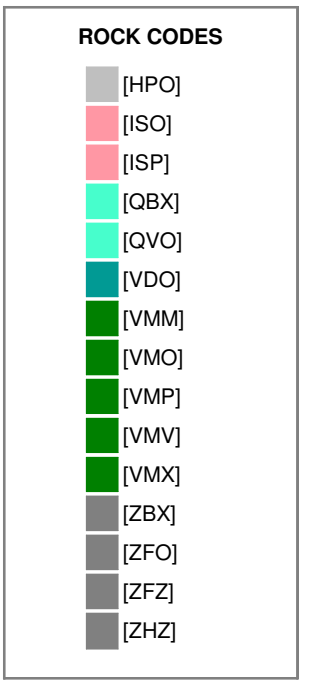
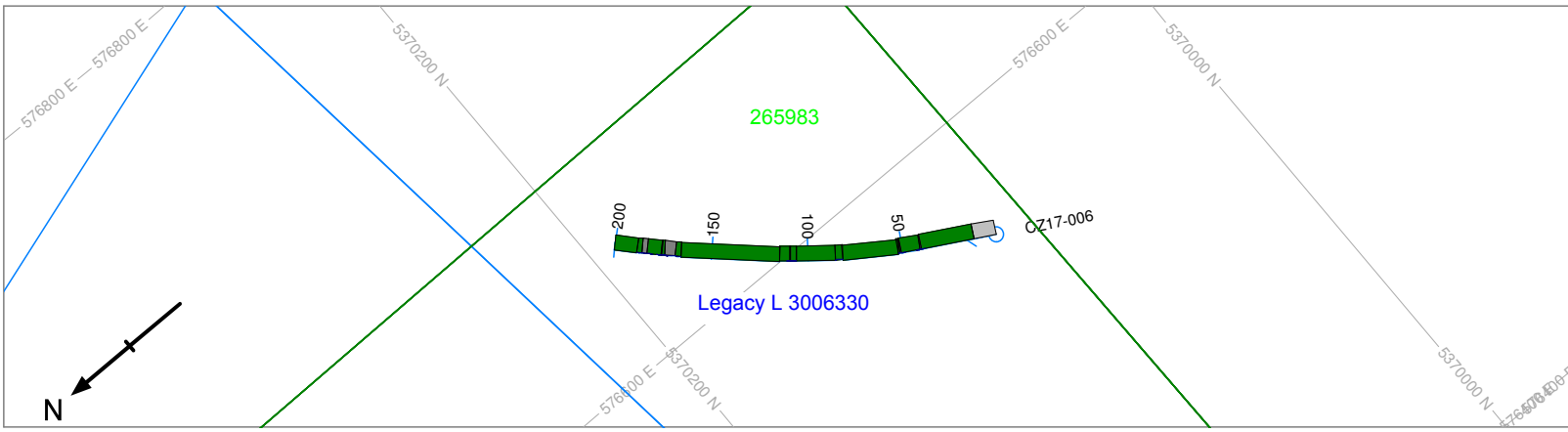


KIRKLAND LAKE GOLD



CZ17-005		
Scale 1:2500	Date: 27 Nov 2018	Au Scale : 1mm=1gpt
Azimuth 55°	Dip -50.3°	EOH 300m

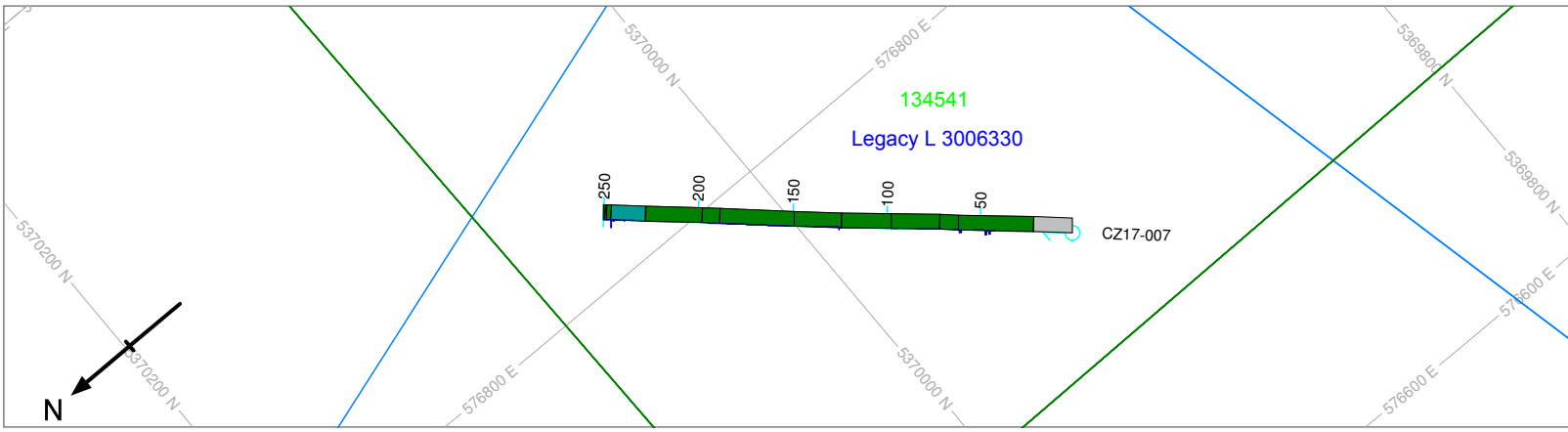




CZ17-006		
Scale 1:2500	Date: 27 Nov 2018	Au Scale : 1mm=1gpt
Azimuth 34°	Dip -49.8°	EOH 200m

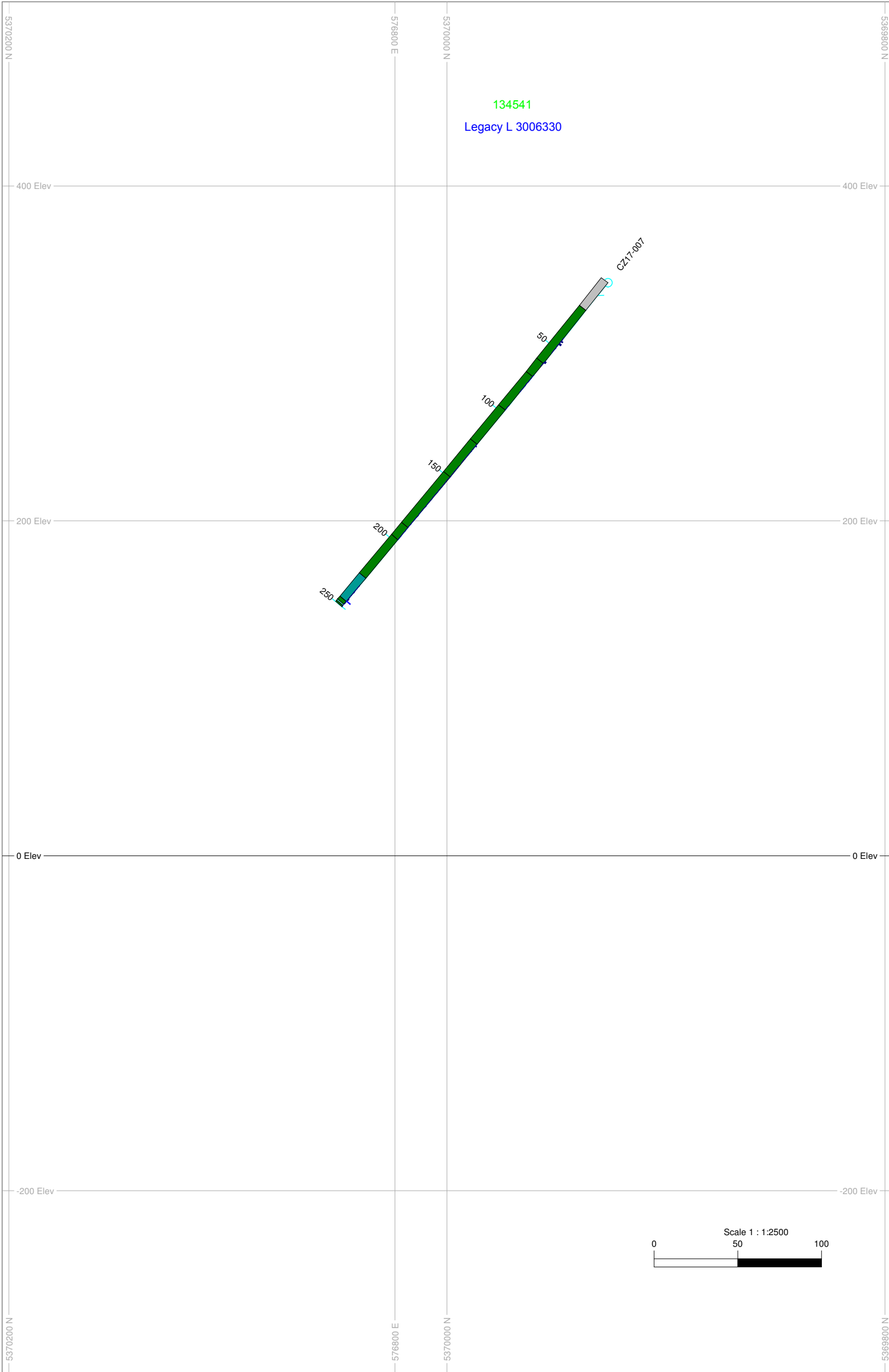


KIRKLAND LAKE GOLD



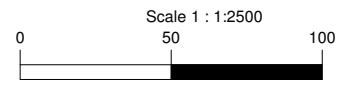
ROCK CODES

[HPO]
[ISO]
[ISP]
[QBX]
[QVO]
[VDO]
[VMM]
[VMO]
[VMP]
[VMV]
[VMX]
[ZBX]
[ZFO]
[ZFZ]
[ZHZ]



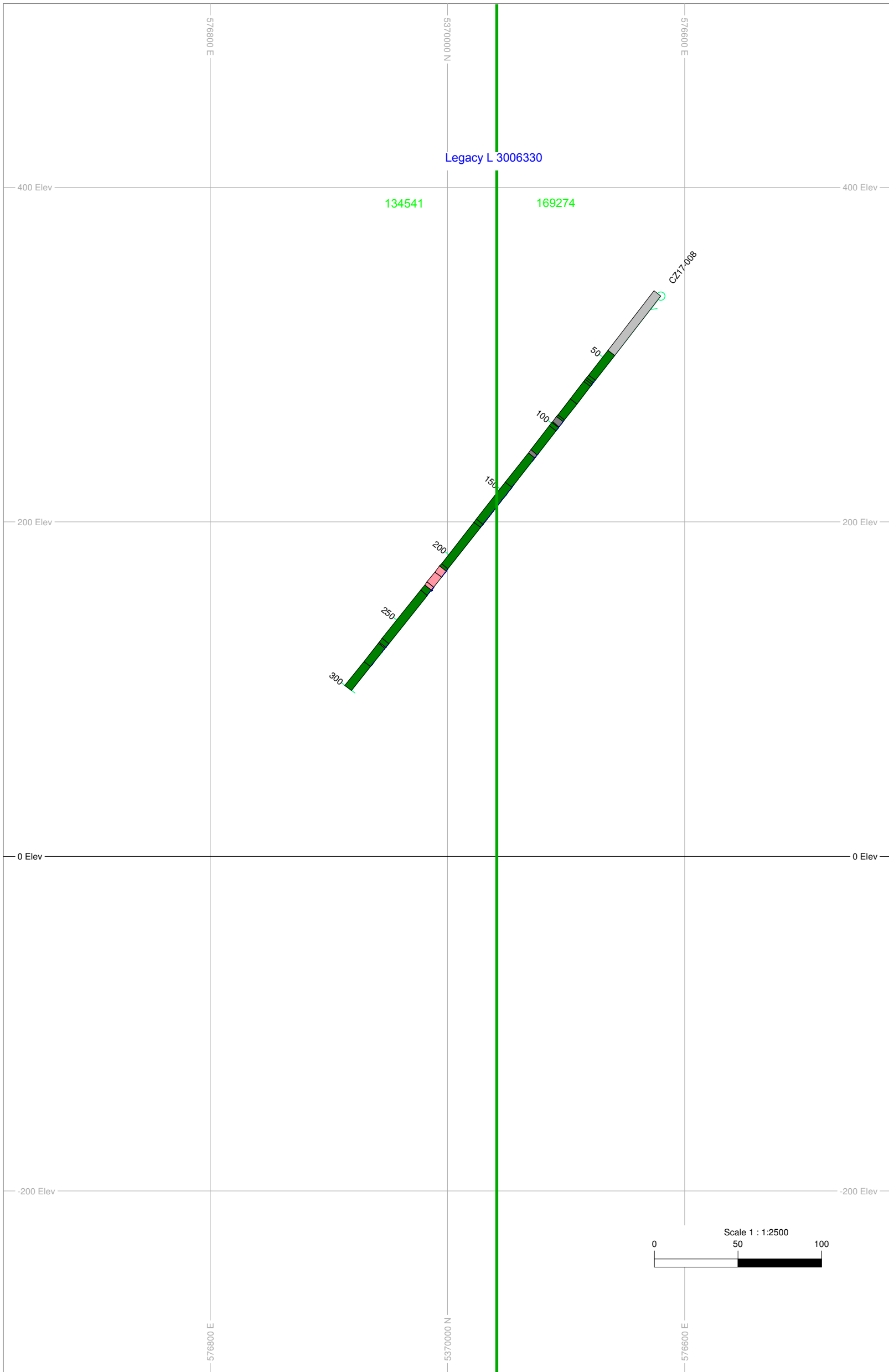
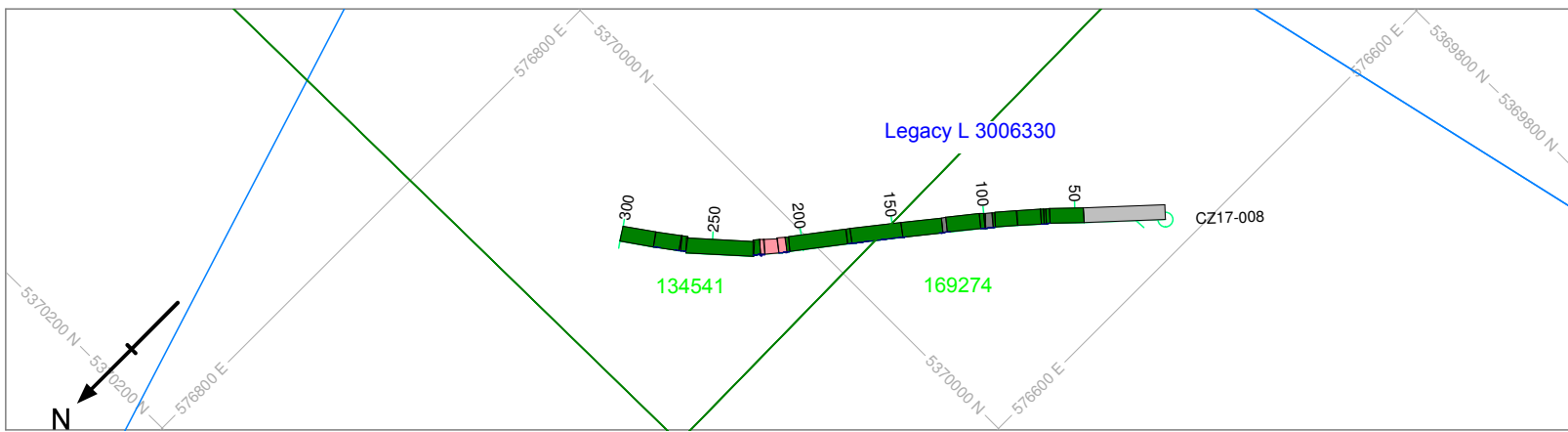
GOLD GRADE (gpt)

0 - 1
1 - 2
2 - 5
5 - 10
10 - 15
>15



CZ17-007		
Scale 1:2500	Date: 27 Nov 2018	Au Scale : 1mm=1gpt
Azimuth 41°	Dip -51.4°	EOH 250m





CZ17-008		
Scale 1:2500	Date: 27 Nov 2018	Au Scale : 1mm=1gpt
Azimuth 42°	Dip -52.3°	EOH 300m



KIRKLAND LAKE GOLD

Campbell - 2017 Project- Cost Summary			
	Time	Charge Amount	Cost
Core Cutter	12	\$225 /day	\$ 2,700.00
Geologist	21	\$375 / day	\$ 7,875.00
Project Geo	7	\$550 / day	\$ 3,850.00
Facility	17 days	\$500 / month	\$ 283.39
Supplies	18 days	\$1000 / month	\$ 599.94
Drill Move	Float Charge - invoice 10737		\$ 1,006.83
Reflex rental	17 days	\$2500 /month	\$ 1,416.61
Assays	See Attached Invoice		\$ 12,048.75
Drilling	See Attached Invoice		\$ 101,661.19
Total Project Cost			\$ 131,441.71