

ASSESSMENT REPORT ON
2014 AND 2015 DIAMOND DRILLING
BORDEN GOLD PROJECT

COCHRANE TOWNSHIP
PORCUPINE DISTRICT, ONTARIO

Submitted to:
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Table of Contents

INTRODUCTION	1
LOCATION AND ACCESS	2
GEOLOGY	2
LOCAL GEOLOGY	3
PREVIOUS WORK	7
DIAMOND DRILLING	7
SAMPLE PREPARATION AND ANALYSES	11
Sampling Interval Criteria	11
Sampling Methodology	11
Sample Preparation	11
Description of Analyses	11
RESULTS	13
RECOMMENDATIONS	13
REFERENCES	14

List of Figures:

Figure 1- Location of the Borden Gold Project Claims	4
Figure 2- Regional Land Position	5
Figure 3 – General Geology of the Borden Gold Project Area	6
Figure 4 - Diamond Drill Hole Collar Locations and hole traces	8

List of Tables:

Table 1 – Unpatented Claim Information	2
Table 2 – Patented Claim Information	2
Table 3 – Diamond drill hole data (NAD 83, Zone 17)	9
Table 4 – Drill hole with Claim and applicable metres	9
Table 5 – Detection Limits for Aqua Regia 1E2	12

List of Appendices:

Appendix I: Large Scale Map	
Appendix II: Drill logs	
Appendix III: Drill cross sections	
Appendix IV: Results table (sample by metre)	
Appendix V: Laboratory Certificates	

INTRODUCTION

Between 10 December 2014 and 3 February 2015, Probe Mines Limited completed drilling on the Borden Gold Project as part of its ongoing program. This report describes the results of thirty-two (32) diamond drill holes on the Borden property.

A surface gold showing was present on the Borden Gold Project and had been identified over an area 150 metres long by up to 45 metres wide, hosted by a highly altered and metamorphosed suite of rocks within the volcano-sedimentary horizon. Grab samples from selected outcrop returned values of up to 3.4 g/t gold, and the property is considered to have excellent potential to host a low-grade, bulk tonnage-type gold deposit. Limited exploration work investigating the base metal potential of the volcanic horizon was previously undertaken by Noranda. Sulphide mineralized felsic fragmental units were identified which returned anomalous base metal concentrations, suggesting good potential for hosting volcanogenic massive sulphide ("VMS") deposits.

In July 2010, an initial drill program on the Borden Gold Project was completed to test the extent of the surface showing. Results indicated that there was excellent potential to host a low-grade, bulk tonnage gold deposit on the property. Additional drilling on the property continued to illustrate this potential and in late 2012 a High Grade Zone (HGZ) was intersected in the southeastern area of the deposit. In June 2014, Probe released an updated NI 43-101 compliant Resource Estimate on the Borden Gold Deposit which outlined a High-grade Underground Resource as well as an Open pit-constrained Resource. The High-Grade U/G is estimated to contain a constrained Indicated Resource of 1.60 million ounces of gold averaging 5.39 g/t Au and an additional constrained Inferred Resource of 0.43 million ounces of gold averaging 4.37 g/t Au, at a 2.5 g/t Au cut-off grade. In addition, the deposit is estimated to contain an Open pit-constrained Resource of 2.32 million ounces of gold averaging 1.03 g/t Au, at a 0.5 g/t Au cut-off grade.

Previous assessment for the first stage drilling on the Borden Gold project was filed under work report W1060.02610 in November 2010. Additional drilling in 2011 was filed under work report W1260.02025 in August 2012 and drilling from 2012 was filed under work reports W1260.02626 and W1360.02787 in November 2012 and November 2013 respectively.

The Borden Gold project is located in the Borden and Cochrane Townships, approximately 9 km east-northeast of the town of Chapleau, Ontario. The East Limb property, is located approximately 20 kilometres east of the Borden Gold project. As of 10 December 2014, Probe Mines acquired a large tract of patent claims located in between the Borden and East Limb projects. As such the two projects are now contiguous, extending a distance of 68 km.

All maps coordinates are UTM Nad 83, Zone 17. All costs are in Canadian dollars.

LOCATION AND ACCESS

The Borden Gold project is located in the Borden Lake area of the 1:50,000 NTS topographic sheet 41O/14, approximately 160 km southwest of the city of Timmins and 9 km east-northeast of the town of Chapleau, Ontario (Figure 1). Access to the property is via Highway 101. The East Limb property, is located approximately 20 kilometres east of the Borden Gold project. As of 10 December 2014, through its acquisition of Boies Landrienne Inc, Probe Mines acquired a large tract of patent claims in between the Borden and East Limb projects. As such the two projects are now contiguous, extending a distance of 68 km (Figure 2).

The current report details work applicable to unpatented claim 4242560 and patented (private) claims PINs 731020014, 731020016 and 731020020 located in Cochrane Township.

The amount of credits applied from the work completed as detailed in this report is \$1,218,118 and is being used towards keeping the project claims in good standing.

Mineral Claim information is displayed in Table 1 and Table 2.

Table 1 – Unpatented Claim Information

Mineral Claim	District	Claim Due Date	Township	G-Plan	NTS	Units
4242560	POR	September 13, 2017	Cochrane	G-1085	41O14	15

Table 2 – Patented Claim Information

PIN	TWP	Lot	Con	Parcel	G number	Description
73102-0014	COCHRANE	2	2	Parcel 2058, Sudbury West Section	60100167	S ½ LT 2 CON 2 COCHRANE; DISTRICT OF SUDBURY
73102-0016	COCHRANE	2	2	Parcel 5148, Sudbury West Section	60100771	N ½ LT 2 CON 2 COCHRANE; DISTRICT OF SUDBURY
73102-0020	COCHRANE	1	1	Parcel 5174, Sudbury West Section	60100806	PT BROKEN LT 1 CON 1 COCHRANE; PT BROKEN LT 1 CON 2 COCHRANE; DISTRICT OF SUDBURY

GEOLOGY

The Borden Gold Project is located in the Superior Province of Northern Ontario. The Superior Province is divided into numerous Subprovinces, bounded by linear faults and characterized by differing lithologies, structural/tectonic conditions, ages and metamorphic conditions. The Subprovinces are divided into 4 categories: Volcano-

plutonic; Metasedimentary; Gneissic/plutonic; and High-grade gneissic (Thurston, 1991). The rocks range in age from 3.5Ga to less than 2.76 Ga and form an east-west trending pattern of alternating terranes.

Regionally (Figure 3), the Kapuskasing Structural Zone (KSZ), an elongate north to northeast trending structure, transects the Wawa Subprovince to the west, and the Abitibi Subprovince to the east. The KSZ is approximately 500km long, extending from James Bay at its northeast end to the east shore of Lake Superior at its southwest end. Typically the KSZ is represented by high metamorphic grade granulite and amphibolite facies paragneiss, tonalitic gneisses and anorthosite-suite gneisses occurring along a moderate northwest dipping crustal scale thrust fault believed to have resulted from an early Proterozoic event (Percival and McGrath 1986).

The Wawa and Abitibi Subprovinces, which abut the KSZ, are volcano-plutonic terranes comprising low metamorphic grade metavolcanic-metasedimentary belts. They contain lithologically diverse metavolcanic rocks with various intrusive suites and to a lesser extent chemical and clastic metasedimentary rocks. The individual greenstone belts within the subprovinces have been intruded, deformed and truncated by felsic batholiths. The east trending Abitibi and Swayze greenstone belts of the Abitibi subprovince have historically been explored and mined for a variety of commodities; while the Wawa subprovince hosts the east-trending Wawa greenstone belt and the Mishibishu greenstone belt where much exploration and mining has occurred.

Several alkali rocks such as carbonatite complexes along with lamprohyric dykes intruded along the KSZ, approximately 1022 to 1141 Ma ago. The carbonatite occurrences appear to display close spatial relationships with major northeast-striking shear zones. Proximal to the project area, on the northern side of the KSZ, three (3) such complexes are known to occur. These include the Borden Township carbonatite complex, the Nemegosenda Lake alkalic complex; and the Lackner Lake alkalic complex.

LOCAL GEOLOGY

The Borden Lake greenstone belt is in Borden and Cochrane Townships. It is a west trending belt of supracrustal rocks, approximately 3 km wide, that includes mafic to ultramafic gneiss, pillow basalt, felsic metavolcanic rocks, felsic porphyries and tonalites which are overlain by a +30 m thick suite of Timiskaming-aged clastic metasediments (Moser 1989, Moser 1994, Moser 2008, Percival 2008). The metasediments comprise greywackes, arkose, arenite, quartz pebble conglomerate and polymictic cobble conglomerate, metamorphosed to upper amphibolites facies. Gneissic fabrics are evident and the rocks appear to have been affected by regional deformation. Several episodes of deformation are reflected in the structural imprint of the rocks, with the last deformation being related to the development of the KSZ.

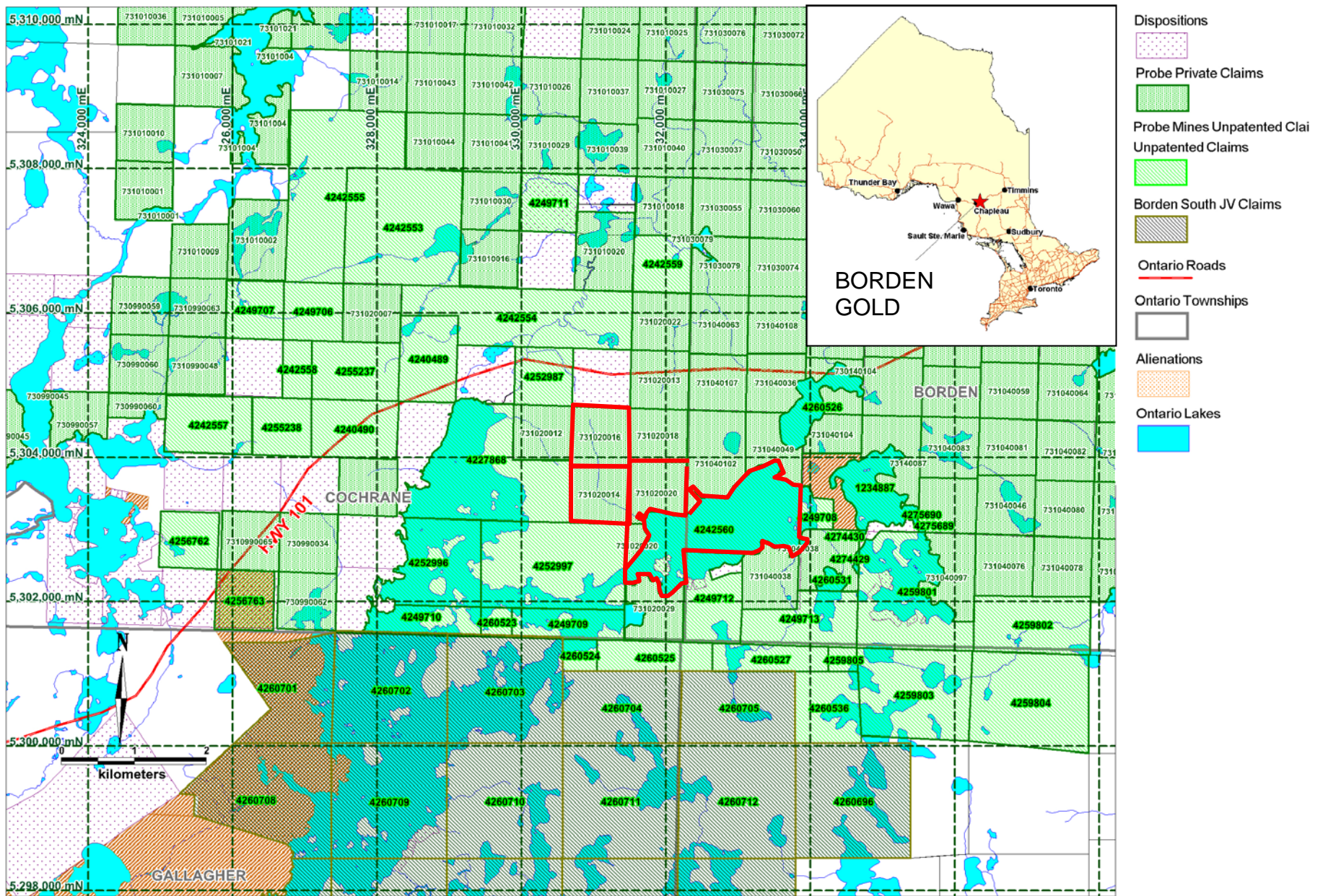


Figure 1- Location of the Borden Gold Project Claims (claims that are the subject of this report are outlined in red)

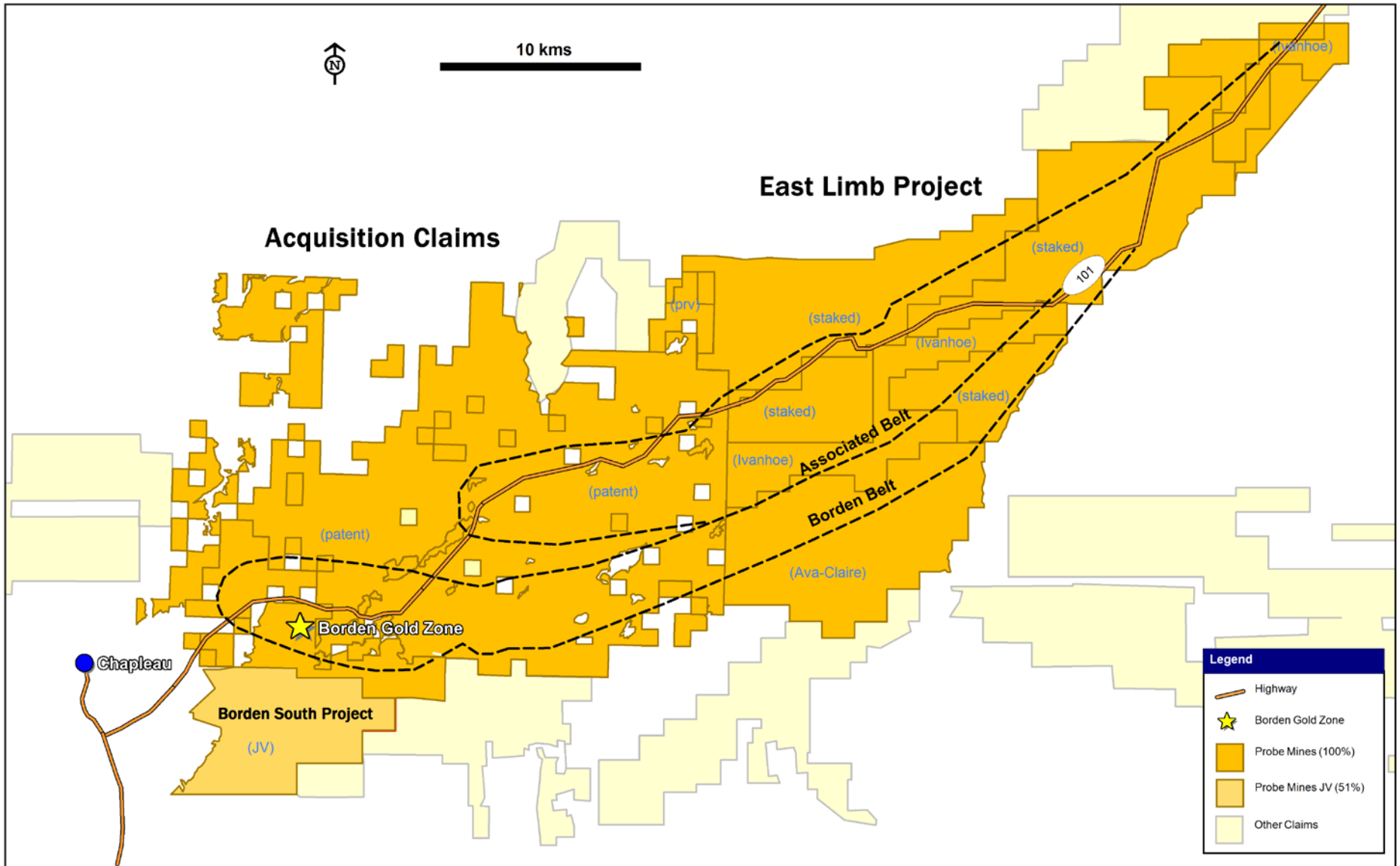


Figure 2- Regional Land Position

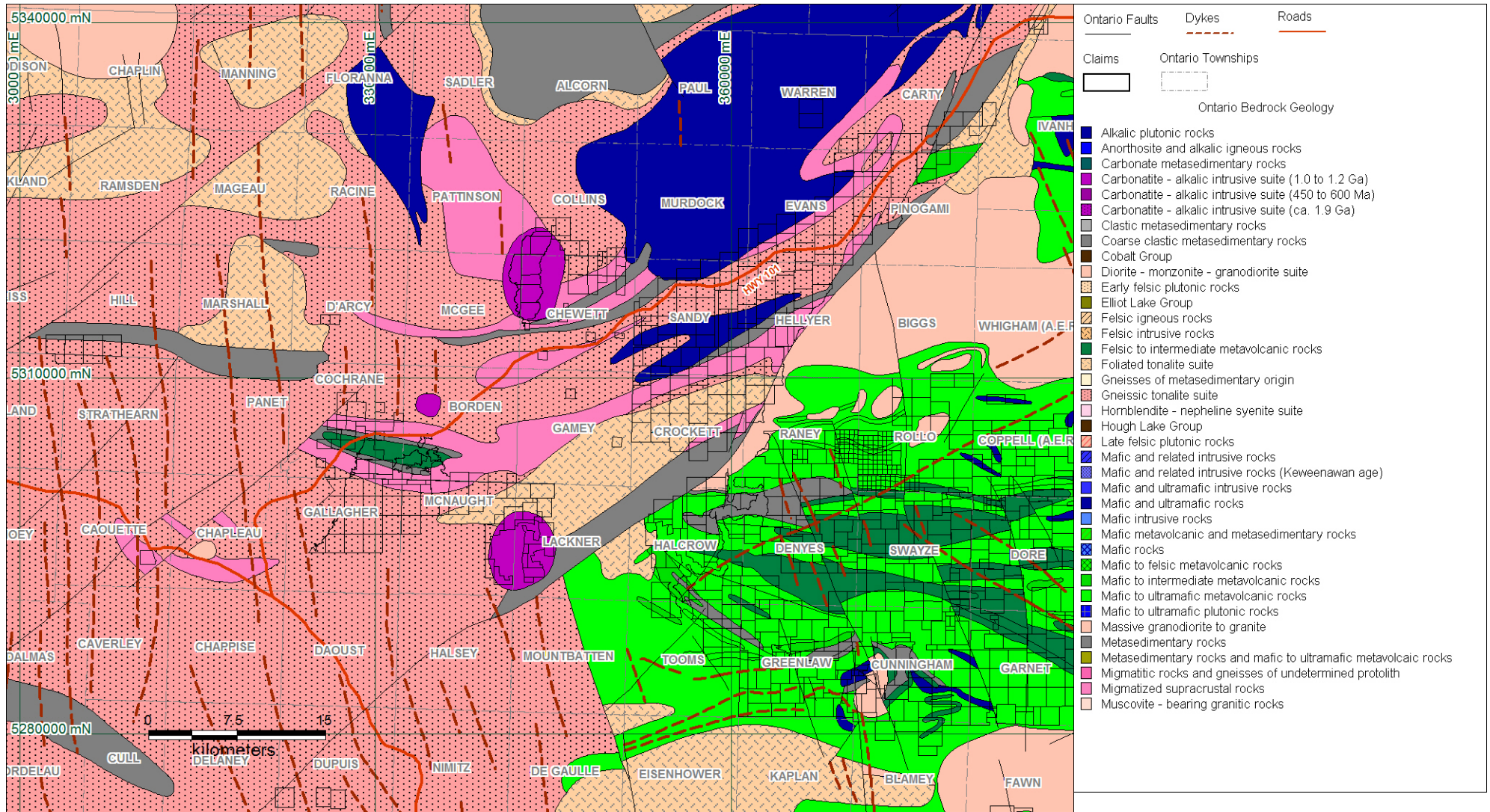


Figure 3 – General Geology of the Borden Gold Project Area

PREVIOUS WORK

Minimal previous work has been completed on the property. In the early to mid 1980s Noranda Exploration Co. Ltd. carried out an exploration program in the west-northwest section of the project area. The program consisted of geological mapping and geophysical surveys including magnetic and Max-min EM. A drill program was also conducted. AFRIs 41O14SW1003, 41O14SW0003 and 41O14SW0004 detail the results of this work.

Various assessment reports were also filed by M. Tremblay in the early 1990s. Work included VLF surveys, soil geochemical sampling and overburden stripping. The AFRIs that detail the work completed include 41O14SW9179, 41O14SW9180, 41O14SW9184, 41O14SW9200, 41O15NE0001 and 41O14SW0001.

In July 2010, Probe Mines completed a diamond drill program comprising eight holes and totaling 790m on claim number 4227868. An assessment report on the drilling was filed in November 2010 under work report W1060.02610. Results indicated that there is excellent potential to host a low-grade, bulk tonnage gold deposit on the property. A Geotech VTEM survey was flown by Probe Mines between January 5 and January 20 2011. Additional drilling in 2011 was filed under work report W1260.02025 in August 2012 and drilling from 2012 was filed under work reports W1260.02626 and W1360.02787 in November 2012 and November 2013 respectively.

DIAMOND DRILLING

Between 10 December 2014 and 3 February 2015, Probe Mines Limited completed drilling on the Borden Gold Project as part of its ongoing program. This report describes the results of thirty-two (32) diamond drill holes with a total meterage of 12,730m. Major Drilling was the drilling contractor. The program was overseen onsite by Probe geologists whom include Craig Yuill, Christine Shultis, Gordon McFadden, Kurt Kenny, Andrew Nette, Isabelle Therriault, Janine Klarner and Nathan Lintner. Data compilation was completed by Sharon Allan, who is also the author of this report.

The drill hole data for the 32 drill holes is summarized in Table 3. The unpatented or patented (private) mineral claim that each hole is located on is also listed in Table 4. In instances where the drill hole crossed a claim boundary, more than one claim is listed with the relevant meterage pertinent to each claim. Figure 4 illustrates the collar locations and hole traces. A larger scale map of these that show greater clarity is located in Appendix I at a scale of 1:4,000.

For the first three holes included, BC14-21, BL14-699 and BL14-700, only a portion of the costs for the actual drilling have been included as these holes were in progress as at 10 December 2014 (and the date of contiguity between projects).



Figure 4 - Diamond Drill Hole Collar Locations and hole traces (see Appendix I for 1:4,000 map)

Table 3 – Diamond drill hole data (NAD 83, Zone 17)

Hole	Depth (m)	UTM East	UTM North	Elevation (m)	Date Started	Date Completed	Azimuth	Dip
BC14-21	750	331253	5304025	458.0334	03/12/2014	12/12/2014	205	-85
BL14-700	303	331115	5303438	431.0334	08/12/2014	11/12/2014	205	-64
BL14-699	671	332324	5303301	431.12	03/12/2014	11/12/2014	152	-72
BL14-701	402	331614	5303312	431.817	12/12/2014	15/12/2014	205	-75
BL14-702	411	331564	5303338	429.917	12/12/2014	14/12/2014	205	-75
BL14-703	414	331652	5303285	431.45	12/12/2014	16/12/2014	205	-75
BL14-704	399	331564	5303338	429.917	15/12/2014	13/01/2015	205	-65
BL14-705	402	331615	5303313	431.817	15/12/2014	11/01/2015	205	-65
BL14-706	402	331652	5303285	431.45	08/01/2015	13/01/2015	205	-65
BL15-707	399	331712	5303283	429.3	12/01/2015	16/01/2015	205	-60
BL15-707A	21	331712	5303283	429.3	12/01/2015	12/01/2015	205	-58.5
BL15-708	399	331615	5303313	431.817	12/01/2015	14/01/2015	205	-60
BL15-709	399	331564	5303338	429.917	13/01/2015	18/01/2015	205	-60
BL15-710	402	331652	5303285	431.45	13/01/2015	18/01/2015	205	-60
BL15-711	387	331615	5303313	431.817	15/01/2015	18/01/2015	205	-55
BL15-712	390	331564	5303338	429.917	18/01/2015	21/01/2015	205	-55
BL15-713	375	331652	5303285	431.45	16/01/2015	19/01/2015	205	-55
BL15-714	426	331787	5303326	432	16/01/2015	20/01/2015	205	-58.5
BL15-715	396	331615	5303313	431.817	18/01/2015	22/01/2015	205	-50
BL15-716	381	331652	5303285	431.45	20/01/2015	22/01/2015	205	-50
BL15-717	393	331564	5303338	429.917	21/01/2015	24/01/2015	205	-48
BL15-718	456	331783	5303323	450	20/01/2015	23/01/2015	205	-48
BL15-719	420	331652	5303285	431.45	22/01/2015	27/01/2015	205	-70
BL15-720	417	331614	5303312	431.817	23/01/2015	27/01/2015	205	-70
BL15-721	381	331564	5303338	429.917	24/01/2015	27/01/2015	205	-45
BL15-722	397	331522	5303363	431	25/01/2015	29/01/2015	205	-75
BL15-722A	90	331522	5303363	431	24/01/2015	24/01/2015	205	-75
BL15-723	441	331652	5303285	431.45	27/01/2015	30/01/2015	205	-85
BL15-724	432	331614	5303312	431.817	27/01/2015	01/02/2015	205	-85
BL15-725	393	331564	5303338	429.917	28/01/2015	01/02/2015	205	-70
BL15-726	378	331652	5303285	431.45	31/01/2015	03/02/2015	205	-45
BL15-727	403	331522	5303363	431	29/01/2015	03/02/2015	205	-85

Table 4 – Drill hole with Claim and applicable metres

Hole	Section	Total Depth	Claim	Metres applicable
BC14-21	750m SE	750	731020016	225
BL14-700	875mSE	303	731020014	152
BL14-699	2200mSE	671	4242560	167
BL14-701	1400mSE	402	731020020	402

Hole	Section	Total Depth	Claim	Metres applicable
BL14-702	1350mSE	411	731020020	411
BL14-703	1450mSE	414	731020020	414
BL14-704	1350mSE	399	731020020	399
BL14-705	1400mSE	402	731020020	402
BL14-706	1450mSE	402	731020020	402
BL15-707	1500mSE	399	731020020 4242560	247 152
BL15-707A	1500mSE	21	731020020	21
BL15-708	1400mSE	399	731020020	399
BL15-709	1350mSE	399	731020020	399
BL15-710	1450mSE	402	731020020	402
BL15-711	1400mSE	387	731020020	387
BL15-712	1350mSE	390	731020020 731020014	371 19
BL15-713	1450mSE	375	731020020	375
BL15-714	1550mSE	426	731020020 4242560	271 155
BL15-715	1400mSE	396	731020020	396
BL15-716	1450mSE	381	731020020	381
BL15-717	1350mSE	393	731020020 731020014	328 65
BL15-718	1550mSE	456	731020020 4242560	343 113
BL15-719	1450mSE	420	731020020	420
BL15-720	1400mSE	417	731020020	417
BL15-721	1350mSE	381	731020020 731020014	319 62
BL15-722	1300mSE	397	731020020	397
BL15-722A	1300mSE	90	731020020	90
BL15-723	1450mSE	441	731020020	441
BL15-724	1400mSE	432	731020020	432
BL15-725	1350mSE	393	731020020	393
BL15-726	1450mSE	378	731020020	378
BL15-727	1300mSE	403	731020020	403
TOTAL		12730		11550

SAMPLE PREPARATION AND ANALYSES

Sampling Interval Criteria

Sample intervals were identified based on changes in lithology, structure, alteration and mineralization. Generally, samples of 1 m were taken in longer sections of similarly mineralized rocks. However, sample size was reduced to as low as 0.4 m in areas of particular interest or where lithology and mineralization were distinct.

Sampling Methodology

The geologist identified and marked the beginning and the end of the sampling intervals. Upon completion of the logging and demarcating the sample intervals, technicians sawed the core in half with a diamond saw. One half of the core was bagged, tagged with a sample number and then sealed; the other half was put back in the core boxes and kept as a reference and check sample in the event that duplicate assays are required.

All core samples were recorded in drill interval batch sheets and in a sample chain of custody spreadsheet. For quality control (QC) purposes, each series of 40 samples contained a duplicate, blank and two standards (certified reference material). These QC materials were inserted into the sample batches by Probe personnel, prior to shipping to the laboratory.

Subsequent to 10 December 2014 and into January and February 2015, the drillholes being reported on here, were cut into samples. All samples were organized into batches with the QAQC samples, and were shipped to Activation Laboratories in Timmins for processing. Results were received from Actlabs up until April 2015. All results were reviewed to ensure the batch passed the required QC protocol before compiling and entering the data into the master database.

Sample Preparation

Samples were prepared by drying, if necessary, then the entire sample was crushed to a nominal minus 10 mesh (1.7 mm), mechanically split (riffle) to obtain a representative sample and then pulverized to at least 95% minus 150 mesh (106 µm).

Description of Analyses

Aqua Regia ICP (1E2)

In the 1E2 Aqua Regia Analysis, 0.5 g of sample is digested with aqua regia for 2 hours at 95 ° C. The sample is cooled then diluted with deionized water. The samples are then analyzed using a Varian ICP for the 35 element suite. QC for the digestion is 15% for each batch, 2 method reagent blanks, 6 in-house controls, 8 sample duplicates and 5 certified reference materials. An additional 20% QC is performed as part of the instrumental analysis to ensure quality in the areas of instrumental drift. A series of

USGS-geochemical standards are used as controls. This digestion is near total for base metals however will only be partial for silicates and oxides. Detection Limits for the 1E2 analysis are displayed in Table 3 (www.actlabs.com).

Table 5 – Detection Limits for Aqua Regia 1E2

Element	Detection Limit	Upper Limit
Ag	0.2	100
Al*	0.01%	-
As*	3	10,000
B*	5	-
Ba*	1	-
Be*	1	-
Bi*	2	-
Ca*	0.01%	-
Cd	0.5	2,000
Co*	1	10,000
Cr*	2	-
Cu	1	10,000
Fe*	0.01%	-
K*	0.01%	-
La*	1	-
Mg*	0.01%	-
Mn*	1	100,000
Mo*	2	10,000

Element	Detection Limit	Upper Limit
Na*	0.001%	-
Ni*	1	10,000
P*	0.001%	-
Pb	2	5,000
S*	0.001%	20%
Sb*	5	-
Sc*	0.1	-
Sn*	5	-
Sr*	1	-
Te*	1	500
Ti*	0.01%	-
Tl*	2	-
V*	1	-
W*	1	-
Y*	1	-
Zn*	1	10,000
Zr*	1	-

* Element may only be partially extracted

Fire Assay Gold (1A2)

In Fire Assay Fusion, 30 g of the pulverized rock sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector. After being placed in a fire clay crucible, the mixture is preheated at 850°C, intermediate to 950°C and finished at 1060°C, with the full process lasting approximately 60 minutes. The crucibles are removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au. With an AA Finish, the entire Ag doré bead is dissolved in aqua regia and the gold content is determined by Atomic Absorption (AA). This is an instrumental method of determining element concentration by introducing an element in its atomic form, to a light beam of appropriate wavelength causing the atom to absorb light – atomic absorption. The reduction in the intensity of the light beam directly correlates with the concentration of the elemental atomic species. Detection limits for Fire Assay with AA finish are 5 to 3000ppb Au (www.actlabs.com).

RESULTS

Drill logs are presented in Appendix II and drillhole cross sections in Appendix III. The sections are illustrated at scale of 1:1,000. Each section contains multiple drillholes along lines that are perpendicular to the strike of the deposit and parallel the azimuth of the holes. Hole BL14-699 was drilled obliquely to the target section (azimuth = 152°), to allow access from land. As such the drillhole trace has been projected along section 2200mSE at 205°.

For holes BL14-699 and BL14-700, the gold assays have been illustrated as the samples were not analyzed by Aqua Regia ICP. For holes BC14-021, and BL14-701 to BL15-727, only the ICP results for Ag, Cu, Zn and Pb are illustrated in the cross sections.

Results tables and certificates are listed in Appendix IV and V respectively. Large sections of the drillhole were typically sampled at 1m intervals, as such given the number of samples per drill hole and per rock unit logged, ICP results are not included in the drill logs but as separate tables for ease and clarity. The corresponding rock type is listed in these tables as well as the meterage (Appendix IV).

All drill holes in this report were part of the infill program and intersected rock units representative of the Borden Gold deposit.

RECOMMENDATIONS

The Borden Gold Deposit remains open along strike in both directions. Ongoing drilling continues to define the deposit. Costs related to the drilling and sampling as detailed in this report are being applied to maintain the claims in good standing.

REFERENCES

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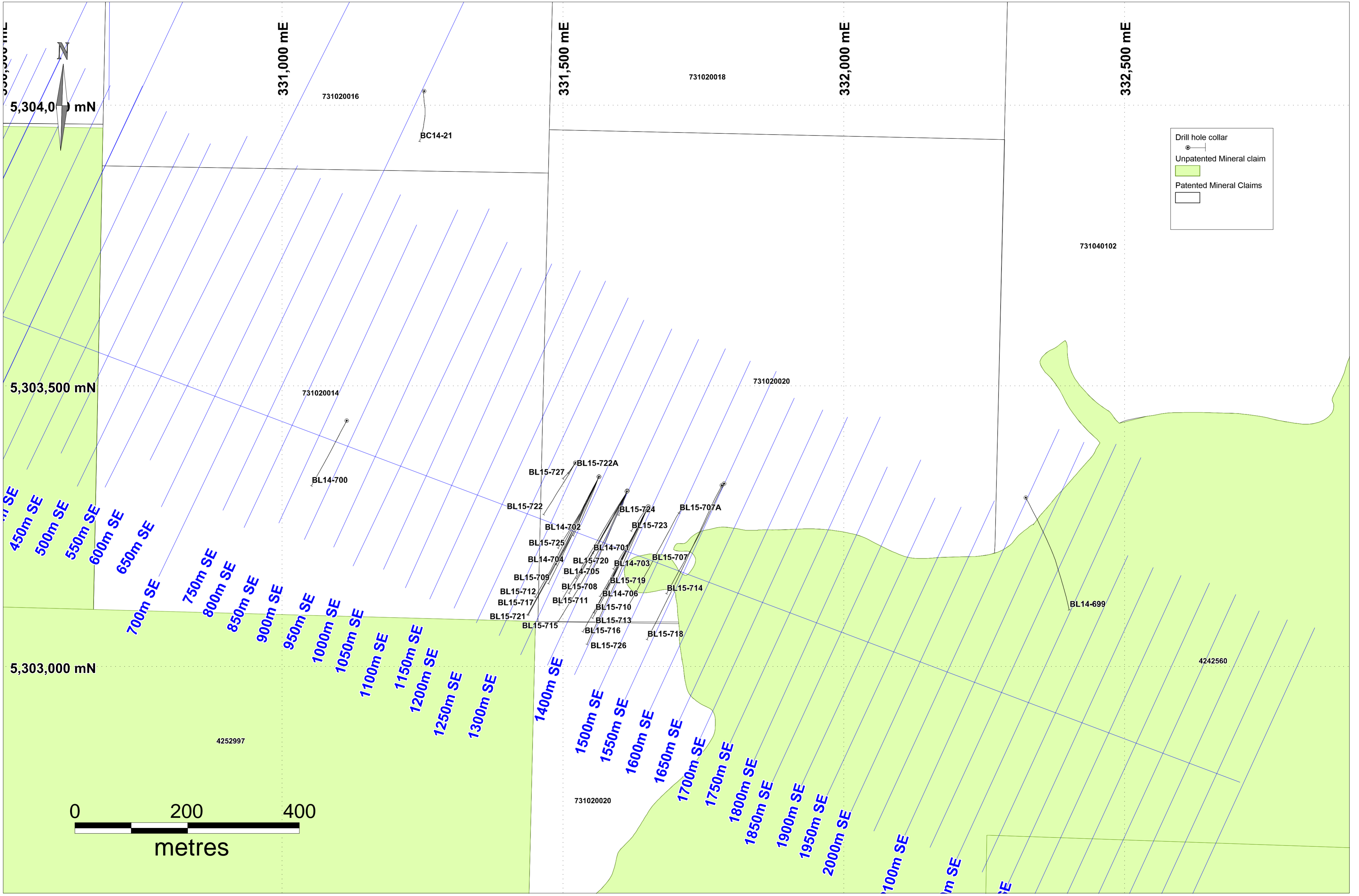
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APPENDIX I

Large Scale Collar Location and Drill hole trace Map (1:4,000)



5,304,0 mN

331,000 mE

331,500 mE

332,000 mE

332,500 mE

5,303,500 mN

731020014

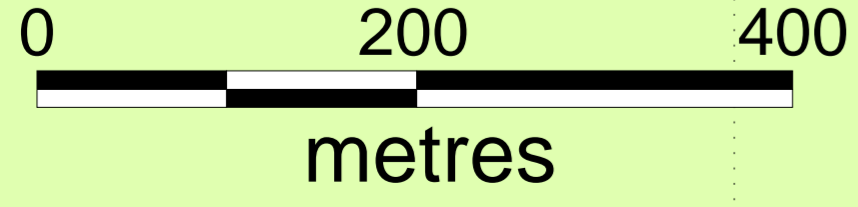
731020020

731040102

5,303,000 mN

4252997

4242560



Drill hole collar

Unpatented Mineral claim

Patented Mineral Claims

450m SE
500m SE
550m SE
600m SE
650m SE
700m SE
750m SE
800m SE
850m SE
900m SE
950m SE
1000m SE
1050m SE
1100m SE
1150m SE
1200m SE
1250m SE
1300m SE

1400m SE
1500m SE
1550m SE
1600m SE
1650m SE
1700m SE
1750m SE
1800m SE
1850m SE
1900m SE
1950m SE
2000m SE

BL15-727
BL15-722A
BL15-722
BL14-702
BL15-725
BL14-704
BL15-709
BL15-712
BL15-717
BL15-721
BL15-715
BL15-720
BL14-701
BL14-703
BL15-707
BL14-705
BL15-708
BL15-711
BL15-710
BL15-713
BL15-716
BL15-726
BL15-718
BL15-724
BL15-723
BL15-707A
BL15-719
BL14-706
BL15-714

BC14-21

BL14-700

BL14-699

731020018

APPENDIX II

Drill logs



Diamond Drilling Log

Hole No
DDH.
BC14-21

Page No
1 of 8

Drilling Company Major	Core Size NQ	Collar Elevation (m) 458	Bearing of Hole from true North 205	Total Depth (m) 750	Dip of Hole At Collar -85	Location where core stored Chapleau	Location of DDH (TWP, Lot, Con, LatLong) Cochrane TWP
Date Hole Started 03/12/2014	Date Completed 12/12/2014	Date Logged 03/12/2014 to 12/12/2014	Logged By G. McFadden	(m) degrees	(m) degrees	Property Name Borden	Easting 331253
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5304025
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	5.2	Casing							
5.2	9.2	Felsic Gneiss (S)	grey	FMG			10		
9.2	13.0	Diorite	grey	FCG	POR		10		2
13.0	14.7	Pegmatite	pink		PEG		0.5		100
14.7	20.1	Diorite	grey	FMG	POR		10		
20.1	23.3	Felsic Gneiss (S)	grey	FG			10		
23.3	25.5	Amphibolite	grey_green	FMG			2		
25.5	29.3	Felsic Gneiss (S)	grey_green	FMG	BND		10		0.5
29.3	33.8	Amphibolite	grey_green	FCG			1.5		0.5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
33.8	35.0	Diorite	grey	FMG	POR		10		
35.0	43.1	Amphibolite	grey_green	FMG			3		
43.1	45.6	Felsic Gneiss (S)	grey	FG			10		1
45.6	46.6	Amphibolite	grey_green	FG			3		
46.6	50.5	Felsic Gneiss (S)	grey	FG			5		1
50.5	55.1	Felsic Gneiss (S)	grey	FMG			5		
55.1	65.1	Diorite	grey_white	FCG	POR		12.5		1
65.1	72.1	Felsic Gneiss (S)	grey	FCG		UM/Lamp dyke 71.4-71.5m.	7.5		
72.1	73.4	Diorite	grey	FMG		Massive Diorite.	7		
73.4	74.6	UMLAMP Dike	green	FG		UM/Lamp dyke	0.5		
74.6	80.9	Felsic Gneiss (S)	grey	FMG	MELT	FG(s). Variable melt texture, and localized vugs.	7		
80.9	83.9	Felsic Gneiss (S)	grey	FG		Fine grained FG(S).	6		
83.9	97.6	Amphibolite	green	FG		Am with minor epidote. Diorite 84.7-85m, and quartz vein 85.4-85.7m.	1		
97.6	98.3	Diorite	grey	FMG		Massive Di.	7		
98.3	105.4	Amphibolite	green	FG		Amph with minor epidote. FG(s) 104.6-104.8m.	1		
105.4	106.8	Felsic Gneiss (S)	grey	FG		FG(S). Amph 106-106.2m.	7		
106.8	107.3	UMLAMP Dike	dk grey	FG		UM/Lamp dyke.	0.5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
107.3	108.2	Quartz Vein	white	CG		Quartz vein with blebby Py. One small clot (~3cm) of FG(s).			
108.2	110.9	Felsic Gneiss (S)	grey	FG		FG(s). Quartz veins 109.3-109.7m and 110.2-110.4m. Weak melt texture.	5		
110.9	113.5	Diorite	grey	FMG		Weakly foliated Dio. FG(s) 112.2-112.5m.	7		
113.5	135.7	Felsic Gneiss (S)	grey	FMG		FG(s) with abundant k-alteration halos. Amph 132.2-132.3m and 132.5-132.6m. Quartz veins 132.3-132.5m and 134.6-134.7m.	7		
135.7	140.4	Diorite	pink	FMG		Diorite, with variable k-alteration associated with a fault.	4		
140.4	155.5	Felsic Gneiss (S)	grey	FMG	MELT	FG(s) with weak melt textures.	7		
155.5	166.4	Amphibolite	green	FG		Amph with minor epidote. Localized vugs.	0.5		
166.4	191.0	Diorite	grey	FMG		Massive Di.	7		
191.0	192.6	UMLAMP Dike	black	FG		UM/Lamp dyke with mm scale phenocrysts.	1		
192.6	201.5	Diorite	grey	FMG		Diorite with abundant fractures. Amph 195.8-196.5m and 197.9-198.1m.	6		
201.5	202.7	Amphibolite	green	FG		Fine grained Amph with abundant fractures and mm scale vugs. Globular Diorite near lower contact.	1		
202.7	208.2	Diorite	grey	FMG	MELT	Dio with weak melt textures.	7		
208.2	210.9	Amphibolite	green	FG		Fine grained Amph. Diorite 209.6-209.8m.	0.5		
210.9	212.0	Diorite	grey	FMG	MELT	Dio with weak melt textures.	7		
212.0	221.8	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s). Intermixing sections with Dio texture, generally weakly foliated. FG(S) with amphibole 214.7-215.2m. Quartz carbonate vein with k-alteration 219.1-219.3m.	6		
221.8	232.1	Diorite	grey	FMG		Generally massive Dio, with weakly foliated sections.	7		
232.1	237.8	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s). Fine-med grained, with coarse quartz 236.1-237.8m.	6		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
237.8	255.2	Diorite	grey	FMG		Massive Dio.	7		
255.2	262.5	Felsic Gneiss (S)	grey	FMG		Massive-weakly foliated FG(s).	6		
262.5	268.4	Diorite	grey	FMG		Massive Dio.	6		
268.4	269.3	Amphibolite	green	FG		Fine grained Amph with weak k-alteration.	1		
269.3	274.0	Diorite	grey	MG		Massive-weakly foliated Dio. Peg 10-15cm.	6		2
274.0	280.6	Felsic Gneiss (S)	grey	FMG		FG(s) with weak melt textures.	5		
280.6	282.8	Amphibolite	green	FG		Fine grained Amph. Amphibole decreases to lower contact. Quartz vein 281.4-281.6m.	7		
282.8	284.8	Diorite	grey	FMG	MELT	Dio with melt textures.	7		
284.8	287.3	Amphibolite	green	FG		Fine grained Amph. Globular Diorite near upper contact.	3		
287.3	297.1	Diorite	grey	FMG		Diorite with weak melt textures, and variable amphibole.	7		
297.1	303.8	Felsic Gneiss (S)	lt grey	MG		Massive-weakly foliated FG(s). Quartz veining 298.2-298.7m, with massive blebby sulphides 298.2-298.4m.	5		
303.8	304.5	Quartz Vein	white	CG		Quartz vein, with minor feldspars and minor Py.			
304.5	307.4	Felsic Gneiss (S)	lt grey	MG		Massive-weakly foliated FG(s). Two Peg bands <5cm, quartz vein 305.9-306.3m.	5		0.2
307.4	308.5	UM\LAMP Dike	black	FG		UM/Lamp dyke.	2		
308.5	314.2	Felsic Gneiss (S)	lt grey	MCG		FG(s). Pegmatitic sections with gradational contacts 311-311.3m and 311.4-311.9m.	5		5
314.2	314.8	Pegmatite	white	CG		Peg, dominantly quartz and feldspar.			
314.8	324.0	Felsic Gneiss (S)	lt grey	MCG		Massive-weakly foliated FG(s). Fine grained FG(s) 323.2-323.4m.	6		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
324.0	325.1	Pegmatite	lt grey	CG		Peg with blebby sulphides.	1		
325.1	332.7	Felsic Gneiss (S)	lt grey	MCG		Massive-weakly foliated FG(s).	6		
332.7	333.7	Felsic Gneiss (S)	dk grey	FG		FG(S). Sharp, uneven contacts.	8		
333.7	347.4	Felsic Gneiss (S)	grey	MCG		Massive-weakly foliated FG(s). Fine-med grained 340.7-341.4m, med grained 341.4-343.5m.	7		
347.4	350.2	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR	QFP. Epidote near upper contact.	10		
350.2	362.1	Felsic Gneiss (S)	grey_green	FMG		FG(s) with clots/streaks of amphibole.	4		
362.1	377.8	Felsic Gneiss (S)	lt grey	MCG		Massive-weakly foliated FG(s). Peg sections 50-20cm.	6		0.5
377.8	379.8	Amphibolite	green	FG		Fine grained Amph. Diorite with amphibole 377.8-378.2m. Peg <5cm.	2		0.2
379.8	382.0	Felsic Gneiss (S)	grey	MG		Weakly foliated FG(s).	7		
382.0	385.9	Diorite	grey_green	FMG		Amphibole rich Diorite. Peg 384.9-385.2m.	5		
385.9	395.4	Felsic Gneiss (S)	grey	MCG		Weakly foliated FG(s). Peg 393-393.3, upper contact very low angle to core axis.	7		0.2
395.4	396.0	Quartz Vein	white	CG		Quartz vein with minor k-spar.			
396.0	415.2	Felsic Gneiss (S)	grey	MCG		Weakly foliated FG(S). UM/Lamp dyke (~2cm thick) 403.6-404m.			
415.2	418.3	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR	QFP.	10		
418.3	430.4	Felsic Gneiss (S)	grey	MCG		Weakly foliated FG(s).	6		
430.4	433.4	UM\LAMP Dike	black	FG		UM/Lamp dyke with mm scale phenocrysts.	2		
433.4	436.1	Felsic Gneiss (S)	grey	MCG		Weakly foliated FG(S).	4		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
436.1	446.0	Diorite	grey_green	FMG		Diorite with variable amphibole.	5		
446.0	450.6	Felsic Gneiss (C)	grey_green	FMG		Matrix supported, amphibole rich FG(c).	4		
450.6	467.1	Diorite	grey_green	FMG		Diorite with variable amphibole. Quartz vein 460-560.3m.	5		
467.1	468.6	UM\LAMP Dike	black	FG		UM/Lamp dyke with mm scale phenocrysts.	3		
468.6	489.5	Diorite	grey_green	FMG		Diorite with variable amphibole. Increased amphibole 475-476.6m, with minor garnets at 475.1m.	5	0.1	
489.5	491.1	Felsic Gneiss (C)	grey	FCG			2.5		
491.1	500.0	Diorite	grey	FCG	POR		10		
500.0	507.4	Felsic Gneiss (S)	grey	FMG			2.5		2
507.4	522.9	Diorite	grey	FCG	POR		12.5		1
522.9	527.0	Felsic Gneiss (S)	grey	FMG			3.5		
527.0	529.6	Diorite	grey	MG			12.5		
529.6	534.3	Felsic Gneiss (S)	grey	FG			10		1
534.3	551.8	Diorite	grey	MCG			10		1
551.8	554.1	Felsic Gneiss (S)	grey_green	FMG	BND		2		2
554.1	564.1	Diorite	grey	MCG			12.5		2
564.1	565.8	Felsic Gneiss (S)	grey_green	FCG			3		
565.8	569.3	Diorite	grey_green	MCG	POR		12.5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
569.3	572.9	Amphibolite	grey_green	FCG			0.25	0.5	
572.9	573.7	Garnet Biotite Felsic Gneiss	grey	FMG			30	0.75	
573.7	582.7	Felsic Gneiss (S)	grey	FMG		Localized sections of felsic gneiss (G) and garnet biotite felsic gneiss. Abundant 1-10 cm thick pegmatites.	12	1	4
582.7	584.3	Felsic Gneiss (G)	grey	FCG			7.5		5
584.3	600.5	Pegmatite	pink		GRH		2		100
600.5	612.5	Felsic Gneiss (S)	grey	FMG		Localized bands of biotite felsic gneiss.	10		1
612.5	613.2	Amphibolite	grey_green	MCG			5		1
613.2	618.7	Felsic Gneiss (S)	grey	FMG			5		1
618.7	620.2	Amphibolite	green	FCG			1.5		2
620.2	621.4	Felsic Gneiss (S)	grey	FMG			10		
621.4	623.0	Amphibolite	grey_green	FMG			2		2
623.0	629.4	Felsic Gneiss (S)	grey	FMG			10	0.25	2
629.4	634.3	Amphibolite	grey_green	FCG			5		
634.3	639.8	Felsic Gneiss (S)	grey_white	FMG		Coarse grained quartz crystals.	7.5		
639.8	644.1	Amphibolite	green	MCG				0.1	
644.1	662.4	Felsic Gneiss (S)	grey	FMG		Localized sections with varying grain size.	10		1
662.4	663.7	Quartz Vein	white	CG		Localized 3-5 cm thick bands of felsic gneiss (S).	0.1		98

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
663.7	666.8	Felsic Gneiss (S)	grey	FMG			10		1
666.8	672.3	Amphibolite	grey	FCG			1	0.1	
672.3	681.9	Felsic Gneiss (S)	grey	FCG			10		2
681.9	706.5	Pegmatite	pink		VUG	Vuggy section at 685.2-686.1m.	5		100
706.5	750.0	Amphibolite	green	FMG		Garnet percantage increases to 10% at 749m. EOH	1	0.2	



Diamond Drilling Log

Hole No
DDH.
BL14-699

Page No
1 of 5

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 152	Total Depth (m) 671	Dip of Hole At Collar -72	Location where core stored Chapleau	Location of DDH (TWP, Lot, Con, LatLong) Cochrane TWP
Date Hole Started 03/12/2014	Date Completed 11/12/2014	Date Logged 03/12/2014 to 11/12/2014	Logged By K. Kenny	(m) degrees	(m) degrees	Property Name Borden	Easting 332324
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5303301
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.6	Casing							
2.6	130.4	Diorite	grey	MG	POR	Amphibolite @ 19.8-20.0m, 24.1-24.4m; pegmatite @ 33.4-33.5, 44.5-44.7m, 47.7-48.0m; quartz vein @ 106.0-106.1m.	5		0.3
130.4	132.0	Diabase Dike							
132.0	213.6	Diorite	grey	MG	POR	Quartz vein @ 134.1-134.2m, 189.4-189.7m; diabase dike @177.9-178.6m.	6		1
213.6	236.5	Diabase Dike							
236.5	239.7	Diorite	dk grey	MG	POR		5		
239.7	241.8	Diabase Dike							
241.8	270.7	Diorite	grey	MG	POR	Quartz vein @ 249.6-249.9m.	5		
270.7	322.0	Diabase Dike				Diorite xenolith @ 271.5-271.8m.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
322.0	339.0	Diorite	dk grey	FMG	POR	Continuing with the large diorite overcap. Pegmatite @ 331.8-332.1m.	4		2
339.0	341.6	Pegmatite	grey_white	MCG	PEG	Discontinuous section of pegmatite hosting minor portions of well-mineralized felsic gneiss (s).	8		75
341.6	344.6	Felsic Gneiss (S)	grey	MG		Pegmatite @ 342.6-342.8m.	5		0.7
344.6	347.4	Quartz Feldspar Porphyry (QFP)	dk grey	CG	POR		10		
347.4	348.3	Felsic Gneiss (S)	grey	MG			5		
348.3	349.9	Amphibolite	green	FG		Felsic gneiss (s) @ 345.0-345.2m.	2		
349.9	356.6	Felsic Gneiss (S)	grey	MCG		Entering a large zone of felsic gneiss (s) with coarse grain quartz phenocrysts & a well-foliated biotite component with an occasional interrupting minor pegmatite. A few small instances blebs indicate the initial appearance of pyrrhotite. Pegmatite @ 352.5-352.8m.	6		5
356.6	357.6	Pegmatite	pink	CG	PEG	Not well-mineralized, feldspar dominates over the quartz component.	1		100
357.6	380.6	Felsic Gneiss (S)	grey	MG		Continuation of the previous felsic gneiss (s). Picking up a little muscovite moving towards the lower contact. Pegmatite @ 359.0-359.2m, 374.8-375.3m.	5		4
380.6	381.5	UM\LAMP Dike							
381.5	382.5	Felsic Gneiss (S)	grey	MG		A bound by dikes portion of felsic gneiss (s), carrying some potassic alteration & some extra micas. Not dissimilar from a felsic gneiss (g).	5		
382.5	383.7	UM\LAMP Dike							
383.7	423.3	Felsic Gneiss (S)	grey	MG		Continuation of the felsic gneiss (s) with fine to medium grain host with coarse quartz phenocrysts. Some brittle fracturing associated with the lamprophyre dike @ 388.0-388.7m. Pegmatite @ 392.7-393.0m.	6		0.75
423.3	424.2	UM\LAMP Dike				Part of the structural event that lead to all the surrounding potassic alteration.			
424.2	433.9	Felsic Gneiss (S)	red	FMG		Heavily faulted lamprophyre dike @ 426.1-426.6m, 427.8-427.9m, to the point where they are mostly just gouge. Another lamprophyre dike @ 428.2-428.5m, which coincides with a diminishment in the potassic alteration. Seeing a weak amphibolites @ 432.1-432.8m.	2		
433.9	437.1	Amphibolite	green	FMG		Weak amphibolite with a strong sulfide component.	8		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
437.1	455.9	Felsic Gneiss (S)	grey	MCG		Quartz vein @ 438.8-438.9m, 445.0-445.1m; pegmatite @ 442.9-443.2m, 443.6-443.7m, resulting in coarser grained rocks in the adjacent host. Diorite @ 445.7-446.5m.	4		3
455.9	457.8	Diorite	dk grey	MG			6		
457.8	462.6	Felsic Gneiss (S)	dk grey	FMG			5		
462.6	464.6	Diorite	dk grey	MG			6		
464.6	473.0	Felsic Gneiss (S)	grey	FMG			5		1
473.0	475.9	Diorite	dk grey	MG		Few small irregular diabase dikes crossing the core, comprising ~10% of the unit interval.	7		
475.9	485.8	Felsic Gneiss (S)	pink	MCG		Section of feldspathically altered felsic gneiss (s) displaying coarse grain quartz phenocrysts.	2		
485.8	487.1	Diorite	dk grey	MCG			8		
487.1	499.5	Felsic Gneiss (S)	grey	MCG		Continuation of the felsic gneiss (s). Amphibolite @ 498.0-498.5m.	4		2
499.5	507.6	Amphibolite	green	FG		Felsic gneiss (s) @ 500.5-500.7m, 501.7-502.3m.	2		
507.6	509.7	UM\LAMP Dike				Amphibolite @ 509.1-509.3m.			
509.7	510.5	Amphibolite	green	FG		Continuation of the previous of amphibolite.	2		
510.5	512.6	Felsic Gneiss (S)	grey	FMG		A structurally affected felsic gneiss (s), showing potassic alteration & brecciation.	5		
512.6	513.5	UM\LAMP Dike				Sheared lamprophyre dike.			
513.5	516.8	Felsic Gneiss (S)	red	FMG		Strong potassic alteration combined with brecciation adjacent to the upper contact. Lamprophyre dike @ 516.2-516.5m.	1		
516.8	519.3	Amphibolite	green	FG			2		
519.3	533.0	Felsic Gneiss (S)	grey	FMG		Something of a 'dirty' felsic gneiss (s) with localized patches of fine grain amphibole & selective weak potassic alteration. Amphibolite @ 525.8-523.2m, 532.2-532.3m, 532.4-532.8m; quartz vein @ 530.0-530.1m, 530.5-530.6m.	5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
533.0	533.9	Quartz Vein	white	CG					
533.9	561.5	Felsic Gneiss (S)	grey	MG		Large run of quartz-rich felsic gneiss (s) interrupted by instances of pegmatite & quartz. Pegmatite @ 538.3-538.6m, 538.9-539.2m, 546.9-547.3m; amphibolite @ 546.3-546.9, 540.5-540.7m; quartz vein @ 549.0-549.2m, 551.3-551.5m. Section of weak amphibolite @ 559.9-560.7 with a few instances of garnet.	4	0.1	2
561.5	563.3	Pegmatite	white	CG			2		100
563.3	565.0	Amphibolite	green	FMG	POC	Small portion of felsic gneiss (s) @ 564.7-565.0m that was cut by the diabase dike at the lower contact.	4		
565.0	599.0	Diabase Dike							
599.0	611.4	Felsic Gneiss (G)	grey	MG	MELT	Fairly standard felsic gneiss (g) showing increased concentrations of muscovite & sillimanite combined with localized melt textures & their associated alterations. Pegmatite @ 601.3-601.4m, 606.8-607.0m, 608.0-608.1m, 608.5-608.6m, 611.0-611.2m.	3		5
611.4	616.8	Garnet Biotite Felsic Gneiss	dk brown	FMG		Ore zone!	30	7	5
616.8	617.6	Quartz Vein	grey	CG		Nice crystalline quartz vein with the potential to grade well.	2		
617.6	618.7	Amphibolite	green	FG			3		
618.7	620.3	Garnet Biotite Felsic Gneiss	grey	FMG		A weaker garnet biotite felsic gneiss with only a few garnets.	25	0.5	10
620.3	623.1	Felsic Gneiss (S)	grey	FMG	MELT	Some portions have similarities to a felsic gneiss (g), but they are localized occurrences.	7		10
623.1	629.4	Garnet Biotite Felsic Gneiss	grey	FMG		A non-distinct collection of a garnet biotite felsic gneiss, with both portions abutting the unit boundaries showing some alteration of the biotite to amphibole.	25	0.5	10
629.4	630.8	Felsic Gneiss (S)	grey	FMG			5		
630.8	652.2	Diorite	dk grey	FMG		Quartz vein @ 649.1-649.3m with some minor blebby sulfides.	6		2
652.2	659.9	Amphibolite	green	FG		Foot wall amphibolite.	1		
659.9	664.6	Felsic Gneiss (S)	lt grey	MCG		Pegmatite @ 659.9-660.2m.	9		6

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
664.6	671.0	Amphibolite	green	FMG		Felsic gneiss (s) @ 668.9-669.4m. EOH @ 671.0m!	2	8	

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 303	Dip of Hole At Collar -64	Location where core stored Chapleau	Location of DDH (TWP, Lot, Con, LatLong) Cochrane TWP
Date Hole Started 08/12/2014	Date Completed 11/12/2014	Date Logged 08/12/2014 to 11/12/2014	Logged By C. Shultis	(m) degrees	(m) degrees	Property Name Borden	Easting 331115 Northing 5303438 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	11.8	Casing							
11.8	18.6	Diorite	grey	FMG		Massive Diorite with broken/blocky sections.	7		
18.6	21.7	Felsic Gneiss (S)	grey	FMG		Weakly-well foliated FG(s).	7		
21.7	23.4	Felsic Gneiss (S)	grey	FMG		Massive-well foliated FG(s) with amphibole. Minor Po.	7		
23.4	30.8	Felsic Gneiss (S)	grey	MG		Weakly foliated FG(s).	7		
30.8	48.7	Diorite	pink	FMG		Massive Diorite. Faulting and pervasive k-alteration that destroyed texture. UM/Lamp dykes 35.4-35.9m and 36.3-36.8m.	6		
48.7	50.8	Felsic Gneiss (S)	grey_green	FMG		FG(s) with amphibole. Massive with (porphyroblastic?) amphibole 48.7-49.5m, well foliated 49.5-50.8m.	2		
50.8	51.5	UM\LAMP Dike	black	FMG		UM/Lamp dyke with bands (1-2cm) of FG(S) with amphibole.	2		
51.5	58.7	Felsic Gneiss (S)	grey_green	FMG		Foliated FG(s) with amphibole defining foliation. Variable amphibole, with sections of AMP.	2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
58.7	69.8	Felsic Gneiss (S)	grey	FMG		FG(s), massive to foliated. Peg 1-15cm.	7		0.2
69.8	75.7	Diorite	grey	FCG		Massive Diorite, FMG coarsening downhole to QFP. FG(s) 71.6-72.m.	7		
75.7	78.2	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s).	7		
78.2	87.9	Amphibolite	green	FG		Fine grained Amph. Diorite 79-79.4m and 80.4-80.8m. Locally magnetic.	1		
87.9	90.8	Diorite	grey	FMG		Dio, massive at upper contact to weakly foliated at lower contact. Dyke at 90.6m (~5cm thick).	7		
90.8	91.5	Amphibolite	green	FMG		Am with sharp contacts.	2		
91.5	93.8	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s).	6		
93.8	95.2	Amphibolite	green	FMG		Am with variable bt concentration. Locally (weakly) magnetic.	7		
95.2	99.3	Diorite	dk grey	FMG		Diorite. AMP 97.7-98.1m.	7		
99.3	102.2	Amphibolite	green	FMG		Am.	0.5		
102.2	109.1	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s). Peg 107-107.2m.	6		0.2
109.1	138.6	Diorite	grey_green	FMG		Diorite with variable AM. UM/Lamp dykes 113.1-113.3m, 129.1-129.3m, and 129.5-129.7m.	5		
138.6	153.0	Felsic Gneiss (S)	grey	MG		Weakly-moderately foliated fG(s).	6		
153.0	166.6	Felsic Gneiss (G)	lt grey	MG		FG(g) with Peg <5-10cm.	5		
166.6	175.2	Felsic Gneiss (S)	grey	MG		Weakly foliated FG(s) with minor muscovite.	6		
175.2	178.3	Felsic Gneiss (S)	grey	FMG		FG(s) with garnets.	15	0.2	
178.3	180.9	Amphibolite	green	FG		Am, with felsic bands (<1cm) and variable bt concentration.	4		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
180.9	183.7	Felsic Gneiss (S)	grey	MG		Weakly foliated FG(s). Peg (5cm and 10cm) near upper contact.	7		
183.7	190.1	Amphibolite	green	FG		Fine grained Am.	1		
190.1	196.0	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s).	8		
196.0	197.3	Amphibolite	green	FMG	POB	Am, looks like fine grained Amphibole Felsic Gneiss.	1		
197.3	198.0	Felsic Gneiss (S)	grey	FG		Foliated FG(s).	12		
198.0	201.2	Amphibolite	green	FG		Fine grained Am with variable bt concentration.	5		
201.2	201.7	Felsic Gneiss (S)	grey	FG		FG(s).	7		
201.7	202.4	Pegmatite	grey	CG		Peg with minor sulphides.	2		
202.4	203.9	Biotite Felsic Gneiss	dk grey	FMG		Bt FG, with Peg 202.8-203.2m.	30		20
203.9	204.7	Pegmatite	grey	CG		Peg with sharp contacts.	4		
204.7	205.5	Felsic Gneiss (S)	grey	FMG		FG(s) with amphibole.	3		
205.5	206.0	Felsic Gneiss (S)	grey	FMG		FG(s). Quartz rich (less bt) bands.	15		
206.0	208.3	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s) with amphibole.	5		
208.3	209.5	Pegmatite	grey	CG		Peg FG(s) 208.3-208.5m.	3		
209.5	214.0	Felsic Gneiss (S)	grey	FMG		FG(s) with variable bt concentration. Bands (<5cm) of Diorite/QFP. Quartz vein 211.8-212.1m. FG(S) with porphyroblastic amphibole and bt 213.6-214m.	12	0.1	
214.0	218.8	Felsic Gneiss (G)	grey	MG		FG(g) with intermixing Peg. Peg 217.9-218.4m.	6	0.1	25
218.8	220.0	Felsic Gneiss (S)	grey_green	FG		Fine grained FG(s) with amphibole.	5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
220.0	224.5	Garnet Biotite Felsic Gneiss	dk grey	FMG		Gt Bt, coarser grained near contacts. Garnets concentrated near lower contact.	30	0.8	
224.5	225.5	Pegmatite	pink	CG		Peg.	3	0.2	
225.5	226.2	Felsic Gneiss (G)	grey	MG		FG(g) with bands of finer grained Gt Bt.	10	0.5	
226.2	229.8	Felsic Gneiss (S)	grey	FMG		FG(s) with garnets, and bands (<5cm) of Gt Bt. Diorite 227.8-228.2m.	8	0.3	
229.8	239.0	Felsic Gneiss (G)	grey	MG		FG(g) with muscovite and sillimanite. Fine grained garnets generally concentrated in bands.	5	1	0.5
239.0	243.4	Garnet Biotite Felsic Gneiss	dk grey	FMG		Gt Bt with muscovite and sillimanite. Peg generally <5cm.	25	10	25
243.4	244.3	Pegmatite	grey	CG		Peg with blebby sulphides.	5		
244.3	247.3	Garnet Biotite Felsic Gneiss	dk grey	FMG		Gt Bt with muscovite and sillimanite.	25	10	0.6
247.3	248.0	Felsic Gneiss (S)	grey	FMG		FG(s) with garnets. Peg at upper contact, and BFG 247.8-248m.	10	0.6	5
248.0	249.2	Diorite	grey	FCG		Massive to foliated Diorite with plag.	10		
249.2	254.9	Pegmatite	grey	CG		Peg. Sections of med grained quartz rich BFG, one 252.8-259.2m.	15		
254.9	258.0	Felsic Gneiss (S)	grey	MG		Weakly foliated FG(s). Intermixing Peg and quartz clots (generally <5cm).	10		1
258.0	259.2	Felsic Gneiss (S)	grey	FG		Fine grained FG(s) with garnets and quartz veining.	3	0.6	
259.2	260.9	Pegmatite	grey	CG		Peg.	5		
260.9	265.1	Felsic Gneiss (S)	grey	FMG		Massive-weakly foliated FG(s) with Diorite texture. Peg 261.5-261.8m.	7		0.2
265.1	266.3	Pegmatite	white	CG		Peg.	3		
266.3	268.9	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s) with minor amphibole. Peg 266.4-266.6m and 267.5-267.9m.	5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
268.9	274.0	Amphibolite	green	FG		Am with CL alteration. Peg 272-272.4m.	0.5		0.2
274.0	275.1	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s) with Diorite texture.	6		
275.1	283.0	Amphibolite	green	FG		Am with patchy CL alteration.	0.5	0.6	
283.0	283.7	Pegmatite	pink	CG		Peg, with no visible sulphides.	1		
283.7	303.0	Amphibolite	green	FG		Am, with CL alteration and garnets. Bands with increased bt near lower contact. E.O.H.	1	2	



Diamond Drilling Log

Hole No
DDH.
BL14-701

Page No
1 of 5

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 402	Dip of Hole At Collar -75	Location where core stored Chapleau	Location of DDH (TWP, Lot, Con, LatLong) Cochrane TWP
Date Hole Started 12/12/2014	Date Completed 15/12/2014	Date Logged 12/12/2014 to 15/12/2014	Logged By K. Kenny	(m) degrees	(m) degrees	Property Name Borden	Easting 331614
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5303312
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	1.8	Casing							
1.8	2.9	Amphibolite	green	FMG			2		
2.9	16.5	Diorite	grey	FG		Amphibolite @ 10.2-11.0m.	3		
16.5	19.0	Amphibolite	green	FG			2		
19.0	20.1	UMLAMP Dike							
20.1	23.9	Amphibolite	green	FG		Continuation of the previous amphibolite. Lamprophyre dike @ 21.0-21.2m.	2		
23.9	30.0	Diorite	dk grey	FMG			8		
30.0	31.3	Amphibolite	green	FG			2		
31.3	51.4	Diorite	grey	FMG		Lamprophyre dike @ 34.7-34.8m; quartz veins @ 38.0-38.4m, 38.9-39.3m, 40.3-40.7m, 42.1-42.2m, 45.5-45.8m.	4		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
51.4	53.7	Amphibolite	grey_green	FMG		Weak amphibolite with a healthy biotite component & an abundance of magnetite.	15		
53.7	57.0	Quartz Feldspar Porphyry (QFP)	grey_white	MCG			8		
57.0	61.0	Amphibolite	green	FMG		Continuation of the previous amphibolite. Dimished biotite but still a fair amount of magnetite. Diorite @ 58.5-59.0m, 59.5-59.8m.	2		
61.0	79.8	Diorite	grey	FMG		The pyrite is occasionally associated with magnetite. Pegmatite with some blebby pyrite & pyhotite @ 66.2-66.3m.	4		0.5
79.8	98.6	Felsic Gneiss (S)	lt grey	MG			4		
98.6	111.8	Amphibolite	green	FG		Fair amount of interspersed among the amphibole. Couple minor patches of diorite break up the homogeneity of the amphibolite.	2		
111.8	143.7	Amphibole Felsic Gneiss	green	MCG	POB	Distinct unit with ~1cm sized amphibole porphyroblasts in a felsic matrix.	2		
143.7	151.0	Felsic Gneiss (S)	red	FCG		Felsic gneiss (s) with coarse grain quartz phenocrysts. Lamprophyre dike @ 144.2-144.6m, 150.6-150.9m; amphibolite @ 150.1-150.3m.	4		
151.0	152.7	Amphibole Felsic Gneiss	grey_green	FMG	POB	Porphyroblast density is less than the previous amphibole felsic gneiss.	1		
152.7	156.5	Amphibolite	green	FMG		Also with disseminated magnetite. Diorite @ 153.5-153.8m, 155.5-155.8m.	2		
156.5	169.1	Diorite	grey	FMG		Much disseminated & patchy amphibole, generally associated with increased concentrations of pyrite. Amphibolite @ 157.5-157.7m, 161.4-162.2m.	4		
169.1	171.5	Amphibolite	green	FG			1		
171.5	173.7	Felsic Gneiss (S)	grey	FG			4		
173.7	176.1	UM\LAMP Dike							
176.1	202.5	Felsic Gneiss (S)	lt grey	FMG		The unit acquires more amphibole after 195m moving towards the lower contact, as such there is an increase in sulfides. Amphibolite @ 179.0-180.2m (weak), 190.1-190.8m, 191.1-191.3m, 192.6-192.9m, 199.0-200.0m (weak); pegmatite @ 187.8-187.9m, 189.4-189.5m.	7		1
202.5	204.5	Quartz Feldspar Porphyry (QFP)	grey_white	CG			6		5
204.5	207.4	Felsic Gneiss (S)	grey	FMG			4		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
207.4	209.5	Amphibolite	green	FMG		Defined run of amphibolite with books of biotite.	10		
209.5	211.3	Felsic Gneiss (S)	grey	FMG			5		
211.3	213.5	Diorite	grey	FMG			6		
213.5	222.4	Felsic Gneiss (S)	grey	FMG		Lamprophyre dike @ 217.4-218.2m; pegmatite @ 222.1-222.2m.	5		10
222.4	223.3	Amphibolite	green	FMG			3		
223.3	246.4	Felsic Gneiss (S)	grey	FMG		Lamprophyre dike @ 227.9-228.1m; pegmatite @ 232.6-232.8m; amphibolite @ 239.9-240.2m.	4		2
246.4	247.6	Amphibolite	green	FG			1		
247.6	260.5	Felsic Gneiss (S)	lt grey	FMG		Amphibolite @ 253.9-254.0m.	4		
260.5	261.9	Pegmatite	white	CG		The final 10cm could be considered a quartz vein, with potential for a little grade bump.	1		100
261.9	263.2	Felsic Gneiss (S)	grey	FMG		Something of a 'dirty' felsic gneiss (s) with a slightly higher amphibole percentage, with an associated sulfide increase.	5		10
263.2	264.6	Diorite	grey	MG			5		
264.6	265.8	Amphibolite	green	FG		Start of a series of short to medium length runs of amphibolite with interrupting diorites / felsic gneiss (s). This initial unit has a strong biotite component reinforcing the foliation.	8		
265.8	267.2	Diorite	grey	MG			6		
267.2	271.8	Amphibolite	green	FG		Continuation of the previous amphibolite. Quartz vein @ 267.5-267.7m, 271.7-271.8m; felsic gneiss (s) @ 270.0-270.3m.	5		
271.8	273.2	Felsic Gneiss (S)	grey	FMG		The portion through to 272.3m has a dioritic texture.	4		5
273.2	278.3	Amphibolite	green	FG		Starting to see a greater introduction of pyrrhotite into the system. Quartz vein @ 276.6-277.0m.	8		
278.3	280.0	Felsic Gneiss (S)	grey	MG		Slightly dioritic with a pegmatite 278.4-278.7 which also has an effect on the adjacent grain size.	15		20

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
280.0	284.0	Amphibolite	grey_green	FMG		Felsic gneiss (s) @ 280.3-280.5m, 281.1-281.2m, 281.5-281.6m, 282.7-283.0m; pegmatite @ 283.0-283.3m.	5		8
284.0	287.5	Felsic Gneiss (S)	grey	MG		The felsic gneisses are becoming more quartz rich, with an increase amount of sulfides present. Amphiboolite @ 285.7-286.3m.	5		5
287.5	290.3	Amphibolite	green	FG		Felsic gneiss (s) 288.7-289.0m.	3		
290.3	293.7	Felsic Gneiss (S)	grey	MG		Nice looking felsic gneiss (s), with a high quartz content, moderate amounts of biotite & a strong sulfide presence.	18		5
293.7	295.6	Amphibole Felsic Gneiss	grey_green	FMG	POB	What appears to be a weakly altered section of amphibole felsic gneiss with medium grain porphyroblasts of amphibole.	6		
295.6	297.0	Felsic Gneiss (S)	grey	FG		Introduction of the first visible garnets.	6	1	
297.0	298.5	Garnet Biotite Felsic Gneiss	dk brown	FG		Apart from some select garnets, the unit is quite fine grained.	25	2	
298.5	301.2	Amphibolite	green	FG		Well mineralized portion of amphibolite with some minor localized patches of chlorite alteration,	2	0.5	
301.2	303.0	Garnet Biotite Felsic Gneiss	grey	FMG		A variable section of garnet biotite felsic gneiss with a pegmatite @ 301.5-301.7m.	25	1	10
303.0	316.0	Felsic Gneiss (G)	pink	MG		Distinctively altered unit, showing much muscovite & sillimanite. Lamprophyre @ 304.5-305.3m.	3		5
316.0	321.6	Garnet Biotite Felsic Gneiss	dk brown	FMG		Strong section of garnet biotite felsic gneiss sandwiched between two felsic gneiss (g). Abundant, coarse garnets @ 318.7-319.7m.	30	8	5
321.6	331.7	Felsic Gneiss (G)	pink	MG		Continuation of the granitic felsic gneiss suite, with laths of muscovite & partial brecciation.	3		5
331.7	336.7	Amphibolite	grey_green	FMG		Garbage bag of a unit, mostly fine grain amphibole, but also areas of garnet biotite felsic gneiss & granitic felsic gneiss.	10	1	
336.7	338.0	Felsic Gneiss (G)	pink	MG			3		20
338.0	345.0	Felsic Gneiss (S)	grey	FMG		Return to a more tradional felsic gneiss (s), with some localized brecciation & minor pegmatites.	4		10
345.0	346.5	Pegmatite	white	CG			3		100
346.5	361.2	Felsic Gneiss (G)	grey	FCG		Real chunky granitic felsic gneiss with clots of muscovite & pegmatite @ 347.9-348.5m, 353.9-354.2m.	4		8

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
361.2	362.7	Diabase Dike							
362.7	367.6	Felsic Gneiss (G)	grey	FCG		Continuation of the previous felsic gneiss (g), with a diminishment in intensity. Amphibolite @ 365.6-365.9m.	4		2
367.6	373.0	Pegmatite	grey_white	MCG		Combination of pegmatite with intermixed portions of garnet biotite felsic gneiss @ 368.2-369.0m, 370.8-371.2m, 371.7-372.4m. Coincides with the high-grade zone seen in drill holes on adjacent sections.	15	1	65
373.0	376.6	Felsic Gneiss (S)	grey_green	FG		Plain felsic gneiss with a moderate contribution of amphiboles.	3		
376.6	379.1	Pegmatite	grey_white	FCG		With felsic gneiss (s) containing amphibole @ 377.6-378.4m, as seen in the previous unit.	5		70
379.1	383.7	Felsic Gneiss (S)	grey	MG		Traditional plain felsic gneiss (s) with foliated biotites & the occasional pegmatite knot @ 381.4-381.7m, 381.8-381.9m.	6		10
383.7	384.8	Amphibolite	green	FG		First hint of foot wall amphibolite.	1		
384.8	391.5	Felsic Gneiss (S)	grey_white	FCG		Continuation of the previous felsic gneiss (s) with numerous interrupting pegmatites @ 384.8-385.3m, 387.4-387.2m, 388.6-388.9m, 389.9-390.3m.	5		30
391.5	402.0	Amphibolite	green	FG		Continuous run of foot wall amphibolite. EOH @ 402.0m!	1	2	



Diamond Drilling Log

Hole No
DDH.
BL14-702

Page No
1 of 7

Drilling Company Major	Core Size NQ	Collar Elevation (m) 430	Bearing of Hole from true North 205	Total Depth (m) 411	Dip of Hole At Collar -75	Location where core stored Chapleau	Location of DDH (TWP, Lot, Con, LatLong) Cochrane TWP
Date Hole Started 12/12/2014	Date Completed 14/12/2014	Date Logged 12/12/2014 to 14/12/2014	Logged By C. Shultis	(m) degrees	(m) degrees	Property Name Borden	Easting 331564 Northing 5303338 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.0	Casing							
3.0	12.4	Diorite	grey	FMG		Diorite with melt textures near top of hole.	6		
12.4	14.8	Amphibolite	green	FMG		Am with variable bt concentration.	7	0.2	
14.8	15.3	Diorite	grey	FMG		Diorite with sharp contacts.	7		
15.3	16.1	Amphibolite	green	FMG		Am with bt.	5		
16.1	24.2	Diorite	grey	FMG		Diorite. Am 23.5-23.8m.	6		
24.2	34.6	Amphibolite	green	FG		Fine grained Am. Diorite 33.1-33.4m, and 34.1-34.6m.	1		
34.6	40.6	UM\LAMP Dike	black	FG		UM/Lamp dyke. Phenocrysts mm scale, and xenoliths up to 2cm.	1		
40.6	46.8	Felsic Gneiss (S)	dk grey	FMG		Massive FG(s) with amphibole, magnetite and high quartz percentage. Minor very fine grained garnets.		0.1	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
46.8	50.4	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR	Massive QFP. Fine grained Am 48.8-49.3m.	8		
50.4	52.5	Amphibolite	green	FG		Fine grained Am. Diorite 51.2-51.4m.	1		
52.5	54.5	Diorite	grey	FMG		Diorite.	7		
54.5	55.3	Felsic Gneiss (S)	dk grey	FMG		FG(s) with amphibole, Po and Py.	10		
55.3	76.6	Diorite	grey	FMG		Massive-weakly foliated Di.		7	
76.6	77.3	UMLAMP Dike	black	FG		UM/Lamp dyke.	0.5		
77.3	91.0	Diorite	grey	FMG		Massive-weakly foliated Di with coarse quartz.	7		
91.0	91.9	UMLAMP Dike	green	FG		Green dyke, with increased bt 91.7-91.9m.	3		
91.9	111.4	Diorite	grey	FMG		Massive-weakly foliated Di.	7		
111.4	129.1	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amph FG. Decreased amphibole and bt 114.2-114.7m.	5		
129.1	135.0	Felsic Gneiss (S)	grey	FG		Weakly foliated FG(s). Minor mm scale vugs. Am 133.6-134m.	10		
135.0	143.2	Felsic Gneiss (S)	grey	FCG		Massive-weakly foliated FG(s) with 15% coarse grained quartz. Gradational lower contact with Diorite.	7		
143.2	145.6	Diorite	grey	FMG		Massive-weakly foliated Di.	7		
145.6	148.6	Amphibolite	green	FG		Fine grained Am.	1		
148.6	151.5	Amphibole Felsic Gneiss	grey_green	FCG		Foliated Am FG with high bt concentration.	35		
151.5	154.2	Amphibolite	green	FMG		Am.	1		
154.2	164.3	Diorite	grey	FMG		Di. Am 154.5-154.9m and 155.8-156m.	6		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
164.3	168.9	Amphibolite	green	FG		Fine grained Am. Bands of Diorite, one section 167.4-168.1m.	2		
168.9	171.8	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(S) with Po and Py. Mm scale vugs, and minor amphibole.	7		
171.8	173.0	Quartz Vein	white	CG		Quartz vein with blebby sulphides.			
173.0	184.1	Felsic Gneiss (S)	grey	FMG		Weakly-foliated FG(s). Peg 183-183.2m and 183.3-184.1m.	7		0.2
184.1	188.1	Amphibolite	green	FG		Fine grained Am. Very fine grained garnets.	2	0.1	
188.1	194.8	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s) with Po. Am 188.9-189.2m. Minor mm scale vugs.	8		
194.8	197.1	Amphibolite	green	FMG		Am with variable amphibole. Peg 195.2-195.3m. Magnetite and minor Po 195.8-196.1m. FG(s) with amphibole 196.3-196.8m.	1		0.1
197.1	200.7	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s) with Po. Contains amphibole, garnets and magnetite 197.1-197.6m and 198.6-197.1m.	5	0.1	
200.7	204.4	Diorite	grey	FCG		Diorite with intermixing QFP. Peg sections 204-204.4m.	7		0.3
204.4	206.7	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s).	6		
206.7	208.3	Amphibolite	green	FMG		Am with variable bt concentration. Fault gouge 206.7-206.9m.	3		
208.3	210.0	Felsic Gneiss (S)	grey	FMG		Weakly foliated FG(s).	7		
210.0	211.8	Diorite	grey	FMG		Massive Diorite	7		
211.8	212.8	Felsic Gneiss (S)	grey	FMG		Massive-weakly foliated FG(s)	6		
212.8	213.6	Diorite	grey	FMG		Massive Di	7		
213.6	222.6	Felsic Gneiss (S)	grey	FMG		Weakly-well foliated FG(s). Am 218.6-218.8m, and 219.3-219.5m.	7		
222.6	223.1	Pegmatite	pink	CG		Peg.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
223.1	223.6	Amphibolite	green	FG		Am	0.5		
223.6	226.9	Felsic Gneiss (S)	grey	FMG		Foliated FG(s) with variable k-alteration	6		
226.9	227.8	Quartz Feldspar Porphyry (QFP)	grey	FCG		QFP	10		
227.8	245.2	Felsic Gneiss (S)	grey	FMG		FG(s) with variable k-alteration. Quartz veins 1-5cm, Peg <5cm.	7		0.2
245.2	245.9	Amphibolite	green	FG		Amphibolite with weak k-alteration.	3		
245.9	256.5	Felsic Gneiss (S)	grey	FMG		Foliated FG(s).	7		
256.5	258.1	UM\LAMP Dike	black	FG		UM/Lamp dyke.	3		
258.1	262.6	Diorite	grey	FMG		Di with weak k-alteration.	6		
262.6	264.0	Amphibolite	green	FG		Fine grained Am. Sulphides associated with veinlets.	1		
264.0	265.7	Diorite	pink	FMG		Broken/blocky Diorite with weak k-alteration. Diabase dyke crosscutting blocky section.	3		
265.7	266.8	Diabase Dike	black	VFG		Very fine grained Diabase dyke.			
266.8	268.2	Amphibolite	green	FMG		Am with weak k-alteration.	4		
268.2	269.0	UM\LAMP Dike	black	FG		UM/Lamp dyke.	2		
269.0	270.3	Felsic Gneiss (S)	pink	FMG		FG(s) with weak k-alteration and epidote.	3		
270.3	274.1	Amphibolite	green	FMG		Am with variable bt and epidote. FG(s) with coarse quartz 273.1-273.4m.	3		
274.1	275.5	Pegmatite	pink	CG		Peg with minor PY.	6		
275.5	277.0	Diorite	pink	FMG		Massive-weakly foliated Diorite with weak k-alteration.	8		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
277.0	278.0	Felsic Gneiss (S)	pink	FMG		Massive FG(s). UM/Lamp dyke crosscutting at low angle 277.6-278m.	3		
278.0	280.0	Amphibolite	green	FMG		Am. UM/Lamp dyke crosscutting at low angle 278-278.3m, and 278.9-279.3m.	0.5		
280.0	281.1	Felsic Gneiss (S)	pink	MCG		Massive FG(s) with intermixing Peg.	3		35
281.1	282.3	Diorite	pink	FMG		Foliated Diorite with k-alteration.	8		
282.3	283.4	Felsic Gneiss (S)	pink	FCG		Massive-weakly foliated FG(s), with k-alteration. Gradational lower contact.	3		
283.4	288.2	Amphibolite	green	FMG		Am with weak k-alteration. Weakly-well foliated.	2		
288.2	289.3	UMLAMP Dike	beige	FG		UM/Lamp dyke with mm scale xenoliths.	2		
289.3	290.2	Amphibolite	green	FG		Foliated Am 289.3-289.9m. Strongly k-altered felsic unit 289.9-290.2m.	3		
290.2	291.3	UMLAMP Dike	black	FG		UM/Lamp dyke with breccia. K-altered unit 290.6-290.7m.	0.5		
291.3	293.6	Biotite Felsic Gneiss	grey_black	FMG		Bt Gns with variable bt, brecciated PEG, and abundant healed fractures. Minor fault gouge.	30		
293.6	295.0	Pegmatite	grey	CG		Peg with minor PY.	7		
295.0	295.8	Felsic Gneiss (S)	grey	MG		Massive-weakly foliated FG(s). Peg 295.6-295.8m with coarser blebby sulphides.	2		1
295.8	296.7	Amphibolite	green	FG		Fine grained Am.	2		
296.7	297.3	Felsic Gneiss (S)	grey	MG		Massive-weakly foliated FG(s).	3		
297.3	299.5	Amphibolite	green	FG		Fine grained Am.	1		
299.5	305.2	Felsic Gneiss (S)	grey	FMG		FG(s) with variable bt. PEG 5-15cm.	7		2
305.2	306.5	Garnet Biotite Felsic Gneiss	grey_black	FG		Fine grained Gt Bt.	30	0.3	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
306.5	308.5	Amphibolite	green	FG		Fine grained Am. Fault gouge at 306.7m.	0.5		
308.5	313.0	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt with variable garnet concentration. Peg 308.6-309.2m.	30	7	0.2
313.0	315.7	Felsic Gneiss (G)	lt grey	MCG		FG(g) with muscovite, and minor sillimanite.	2		
315.7	316.3	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt. FG (S) bands at lower contact.	30	3	
316.3	320.5	Felsic Gneiss (G)	lt grey	MCG		FG(g) with muscovite and sillimanite.	2		
320.5	321.2	Garnet Biotite Felsic Gneiss	grey_black	FG		Gt Bt, coarsening to lower contact. Sericitic alteration.	25		
321.2	324.4	Felsic Gneiss (G)	lt grey	MCG		MCG FG(g).	2		
324.4	327.8	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt with sericitic alteration. Intermixing bands of Am.	30	5	
327.8	330.0	Felsic Gneiss (S)	lt grey	MCG		Massive-weakly foliated MCG FG (S).	5		
330.0	332.4	Garnet Biotite Felsic Gneiss	grey_black	FG		Fine grained Gt Bt.	35	0.2	
332.4	333.4	Felsic Gneiss (S)	grey	FG		FG(s). Breccia 333-333.2m, with increased PY.	5		
333.4	335.6	Garnet Biotite Felsic Gneiss	grey_black	FG		Fine grained Gt Bt.	25	0.2	
335.6	337.3	Felsic Gneiss (S)	grey	FMG		Massive FG(s). UM/Lamp dyke 336.5-336.6m.	5		
337.3	339.3	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt. One quartz vein (~3cm) with Po at 337.9m.	30	0.3	
339.3	341.5	Felsic Gneiss (G)	lt grey	MG		FG(g) with MU and SL. PEG at lower contact (10cm and 5cm.).	4	0.2	0.5
341.5	344.2	Felsic Gneiss (S)	grey	MG		Massive-weakly foliated FG(s). Minor MU and SL	5	0.2	
344.2	360.1	Felsic Gneiss (G)	lt grey	MG		FG(g). Minor PEG sections <5cm.	5	0.2	0.2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
360.1	364.6	Felsic Gneiss (S)	grey	MG		FG(s) with quartz veining. Tr garnets, and variable bt concentration. Peg 364.3-364.6m.	8	0.3	0.3
364.6	366.5	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt, with RIE.	35	5	
366.5	367.0	Felsic Gneiss (S)	grey	MG		FG(s) with MU.	10		
367.0	372.0	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt. FG(s) with SL 367.9-368m.	35	10	
372.0	374.1	Felsic Gneiss (S)	dk grey	FMG		FG(s) with variable bt. Two quartz flooded sections with CL: 372.4-372.6m and 373.7-374.1m. Am 372.6-372.9m.	12		
374.1	376.6	Garnet Biotite Felsic Gneiss	grey_black	FMG		Gt Bt. PEG and QV ~3cm. FG(s) 374.7-375.1m.	30	3	0.2
376.6	378.5	Quartz Vein	white	CG		Quartz vein. Quartz flooded felsics 376.6-376.9m with increased sulphides.	0.2		
378.5	379.5	Felsic Gneiss (S)	grey	MG		Quartz flooded FG(s).	12	0.1	
379.5	381.5	Amphibolite	grey_green	MG		Quartz flooded Am.	1		
381.5	382.7	Felsic Gneiss (S)	grey	MG		Quartz rich FG (S). Peg 381.6-382.1m.	8		40
382.7	383.5	Amphibolite	green	FMG		Quartz rich Am	1		
383.5	384.9	Felsic Gneiss (S)	grey	FMG		FG(S) with variable bt.	8		
384.9	386.7	Diorite	dk grey	FMG		Massive Diorite, no visible sulphides.	10		
386.7	388.6	Amphibolite	green	FMG		Am with PAT CL. PEG 388-388.4m.	0.5		
388.6	390.5	Diorite	grey	MG		Massive Di. No visible sulphides.	7		
390.5	411.0	Amphibolite	green	FG		Am with PAT CL. Quartz veining 401-401.5m and 402.3-402.6m. EOH	1	0.2	

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 414	Dip of Hole At Collar -75	Location where core stored Chapleau	Location of DDH (TWP, Lot, Con, LatLong) Cochrane TWP
Date Hole Started 12/12/2014	Date Completed 16/12/2014	Date Logged 12/12/2014 to 16/12/2014	Logged By G. McFadden	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.0	Casing							
3.0	33.1	Diorite	grey	FCG	VUG	Localized sections with varying grain size. Localized sections of amphibolite with magnetite.	10		0.5
33.1	59.3	Felsic Gneiss (S)	grey	FMG			10		0.5
59.3	61.8	Felsic Gneiss (S)	grey_green	FMG			10		
61.8	81.2	Diorite	grey_white	FMG	POR		10		
81.2	92.0	Amphibole Felsic Gneiss	grey_green	FCG	POB		30		
92.0	99.4	Diorite	grey	FMG			10		
99.4	110.2	Felsic Gneiss (S)	grey	FMG			10		
110.2	112.0	Felsic Gneiss (S)	grey_black	FMG			15		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
112.0	115.6	Felsic Gneiss (S)	grey	FMG			10		0.5
115.6	126.6	Amphibole Felsic Gneiss	grey_green	FCG	POB	Intermixed sections of felsic gneiss (S) near lower contact.	25		
126.6	130.1	Felsic Gneiss (S)	grey	FMG	BND	Localized sections with medium grained amphibole crystals and siliceous alteration. 20 cm thick UMLAMP dike at 128.6m.	10		
130.1	133.6	Diorite	grey			Intermixed sections of felsic gneiss (S).	10		
133.6	143.4	Felsic Gneiss (S)	grey_white	FCG			10		
143.4	152.0	Amphibolite	grey_green	FMG		Inteemixed sections of felsic gneiss (S).	1		
152.0	155.8	Felsic Gneiss (S)	grey	MG			5		
155.8	156.8	Felsic Gneiss (S)	grey_black	FCG			20		
156.8	163.2	Felsic Gneiss (S)	grey	FMG			5		1
163.2	168.0	Amphibolite	grey_green	FG			0.25		3
168.0	174.4	Felsic Gneiss (S)	grey	FMG	VUG	UMLAMP dike at 171.1-171.5m. Localized sections of amphibolite.	10		1
174.4	178.1	Felsic Gneiss (S)	grey	FMG			8		
178.1	182.2	Felsic Gneiss (S)	grey	FG			10		2
182.2	186.8	Felsic Gneiss (S)	grey	MG			10		1
186.8	187.6	Amphibolite	green	FMG			0.25		
187.6	188.4	Felsic Gneiss (S)	grey	FMG			5		
188.4	188.9	Amphibolite	green	FMG			0.1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
188.9	193.1	Felsic Gneiss (S)	grey	FCG	AUG		10		1
193.1	194.5	Diorite	grey	MG			20		1
194.5	195.0	Felsic Gneiss (S)	grey	FMG			7.5		
195.0	196.6	Quartz Feldspar Porphyry (QFP)	grey_white	MCG	POR		20		
196.6	204.5	Felsic Gneiss (S)	grey	FMG			10		
204.5	206.3	Diorite	grey_white	FCG	POR		15		
206.3	209.4	Felsic Gneiss (S)	grey	FMG			10		
209.4	210.8	Amphibolite	grey_green	FG			0.5		
210.8	218.9	Felsic Gneiss (S)	grey	FMG			10		2
218.9	220.8	Amphibolite	grey_green	FMG			0.5		
220.8	222.4	Felsic Gneiss (S)	grey	FMG			10		
222.4	223.4	Diorite	grey	MCG	POR		20		
223.4	224.4	UM\LAMP Dike					5		
224.4	237.8	Felsic Gneiss (S)	grey	FMG			10		1
237.8	238.4	Felsic Gneiss (S)	grey_green	FMG			5		
238.4	240.1	Felsic Gneiss (S)	grey	FCG			10		
240.1	245.5	Felsic Gneiss (S)	grey	FMG			10		2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
245.5	246.4	Amphibolite	grey_green	FMG			2.5		1
246.4	257.2	Felsic Gneiss (S)	grey	FMG			10		2
257.2	258.7	Diorite	grey_white	FCG	POR		15		1
258.7	265.7	Amphibolite	grey_green	FMG			0.5		1
265.7	269.0	Felsic Gneiss (S)	grey	FMG			10		1
269.0	270.7	Diorite	grey_white	FMG	POR		15		
270.7	271.5	Felsic Gneiss (S)	grey	FMG			10		5
271.5	281.7	Amphibolite	grey_green	FMG			2		3
281.7	284.2	Felsic Gneiss (S)		FMG			10		1
284.2	285.8	Amphibolite	green	FMG			2		
285.8	288.6	Felsic Gneiss (S)	grey	FMG			10		1
288.6	289.3	Felsic Gneiss (G)	grey	MCG			7.5		5
289.3	290.0	UM\LAMP Dike	black	FG			5		
290.0	291.1	Amphibole Felsic Gneiss	grey_green	FCG	POB	Section of felsic gneiss (S) at 290-291.1m	1		
291.1	293.0	Felsic Gneiss (S)	grey	FMG			10		
293.0	293.9	Amphibolite	green	FG			2.5	1	
293.9	296.5	Garnet Biotite Felsic Gneiss	grey_black	FCG			35	3.5	5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
296.5	298.1	Felsic Gneiss (G)	grey	FMG			10		2
298.1	305.4	Felsic Gneiss (G)	grey	MCG			5		1
305.4	307.0	UM\LAMP Dike	black	FMG			5		
307.0	309.5	Felsic Gneiss (G)	pink	CG			3		
309.5	312.7	Garnet Biotite Felsic Gneiss	grey_black	FMG			35	2	2
312.7	315.2	Garnet Biotite Felsic Gneiss	grey_black	MCG			40	7.5	2
315.2	317.4	Garnet Biotite Felsic Gneiss	grey_black	FG			30	3	
317.4	322.0	Pegmatite	white			Granitic pegmatite. Sections of felsic gneiss (S) at 318.2-318.7m and 321.6-321.8m.	1		95
322.0	322.7	Felsic Gneiss (G)	grey	MCG			7.5		5
322.7	323.8	Felsic Gneiss (S)	grey	FMG			10	0.25	2
323.8	326.8	Garnet Biotite Felsic Gneiss	grey_black	MG			40	5	5
326.8	337.6	Felsic Gneiss (G)	grey	MCG			5		5
337.6	341.6	Diorite	grey	FMG	POR		7.5		
341.6	343.0	Felsic Gneiss (S)	grey	FMG			15		10
343.0	345.1	Felsic Gneiss (G)	grey	FMG			7.5		2
345.1	346.3	Garnet Biotite Felsic Gneiss	grey_black	FMG			35	0.5	
346.3	347.9	Diorite	grey_white	FMG	POR		15		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
347.9	351.0	Felsic Gneiss (S)	grey	FMG			10		1
351.0	360.3	Felsic Gneiss (G)	grey	FMG			5		2
360.3	367.2	Diorite	grey_white	FMG	POR		15		10
367.2	369.4	Felsic Gneiss (S)	grey	FMG			12.5		1
369.4	370.0	Diorite	grey	FMG	POR		15		
370.0	371.7	UMLAMP Dike					5		
371.7	373.6	Diorite	grey	FMG			15		10
373.6	375.2	Felsic Gneiss (S)	grey	FMG			12.5		2
375.2	377.2	UMLAMP Dike	black	FG			5		
377.2	380.5	Garnet Biotite Felsic Gneiss	grey	FMG		Intermixed sections of amphibolite.	30	0.5	2
380.5	382.7	Felsic Gneiss (S)	grey	FMG			10		5
382.7	383.9	Pegmatite	pink				1		99
383.9	385.2	Felsic Gneiss (S)	grey_green	FMG			0.5		1
385.2	387.1	Felsic Gneiss (S)	grey	FMG			10		1
387.1	391.9	Felsic Gneiss (S)	grey	FMG			10		3
391.9	394.1	Pegmatite	pink				2		95
394.1	394.7	UMLAMP Dike	black	FG			5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
394.7	400.7	Felsic Gneiss (S)	grey	FCG			10		2
400.7	401.8	Amphibolite	grey_green	FMG			5		
401.8	404.1	Felsic Gneiss (S)	grey	FMG			5		
404.1	408.7	Amphibolite	green_pink	FMG			1	2	
408.7	409.8	Felsic Gneiss (S)	grey	FG			10		
409.8	411.5	Amphibolite	green_pink	FCG	POB		0.5	10	
411.5	414.0	Felsic Gneiss (S)	grey	FG		EOH	10		



Diamond Drilling Log

Hole No
DDH.
BL14-704

Page No
1 of 8

Drilling Company Major	Core Size NQ	Collar Elevation (m) 430	Bearing of Hole from true North 205	Total Depth (m) 399	Dip of Hole At Collar -65	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 15/12/2014	Date Completed 13/01/2015	Date Logged 15/12/2014 to 13/01/2015	Logged By C. Shultis	(m) degrees	(m) degrees	Property Name Borden	Easting 331564 Northing 5303338 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.7	Casing							
2.7	12.4	Diorite	grey	FMG	MELT	Massive Di with melt texture. Vuggy throughout.	8		
12.4	16.2	Amphibolite	green	FMG		Am with variable bt and clotty Diorite. PO 14-16.2m.	3		
16.2	25.8	Diorite	grey	FMG		Massive Di. AMP 17.2-17.6m.	8		
25.8	28.3	Felsic Gneiss (S)	grey	FMG		FG(s) with variable amphibole and magnetite. AMP 28-28.3m.	7	0.1	
28.3	29.1	Diorite	grey	FMG		Di.	7		
29.1	31.2	Amphibolite	green	FMG		FMG Am. Locally magnetic.	1		
31.2	33.7	Diorite	grey	FMG		Di.	7		
33.7	37.1	Felsic Gneiss (S)	grey	FMG		Massive-weakly foliated FG(s). FG(s) with amphibole 33.7-34.2m and 34.8-35.1m.	10		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
37.1	39.4	Amphibolite	green	FMG	VUG	Am, with variable bt.	3		
39.4	42.2	Felsic Gneiss (S)	grey	FG		Massive-weakly foliated FG(s).	12		
42.2	45.0	Amphibolite	green	FG		Fine grained Am. Locally weakly magnetic.	0.5		
45.0	47.1	Diorite	grey	FMG		Di. AMP 46.5-46.8m.	7		
47.1	53.0	Felsic Gneiss (S)	grey_green	FMG		FG(s) with AM, MG and very fine-fine grained garnets.	3	2	
53.0	57.6	Diorite	grey	MG		Diorite.	7		
57.6	59.0	UMLAMP Dike	black	FG		UM/Lamp dyke with no visible sulphides.	1		
59.0	80.7	Diorite	grey	MG		Diorite. UM/Lamp dyke roughly parallel to core axis 72.8-73.1m. Minor MAS QV, one QV 69.8-70.1	7		
80.7	83.4	UMLAMP Dike	black	FG		UM/Lamp dyke. Very low angle contacts.	1		
83.4	85.4	Diorite	pink	FMG		Di with k-alteration and RIE. No visible sulphides.	3		
85.4	88.1	UMLAMP Dike	black	FG		UM/Lamp dyke.	2		
88.1	96.8	Felsic Gneiss (S)	grey	FMG		Massive-foliated FG(s) with <1% quartz eyes.	6		
96.8	99.6	UMLAMP Dike	black	FG		UM/Lamp dyke with xenoliths up to 2cm.	1		
99.6	103.2	Felsic Gneiss (S)	grey	FMG		FG(s) with little to no texture preserved. RIE present. UM/Lamp dyke crosscutting at very low angle 100.5-101.1m.	3		
103.2	104.1	Amphibole Felsic Gneiss		FCG	POB	Blue AM FG, with RIE. AMP 103.9-104.1m.	3		
104.1	106.1	UMLAMP Dike	black	FG		UM/Lamp dyke.	1		
106.1	117.5	Amphibole Felsic Gneiss	grey_green	FCG	POB	AM FG, with fairly consistent bt and amphibole.	6		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
117.5	120.2	UM\LAMP Dike	black	FG		UM/Lamp dyke with xenoliths up to 1cm. AMPG roughly parallel to core axis 118.4-118.7m.	2		
120.2	121.9	Amphibolite	green	FG		Am with CL alteration. AMPG 120.2-120.6m.	0.5		
121.9	122.7	Diorite	dk grey	FMG		Massive Diorite	7		
122.7	124.4	Amphibole Felsic Gneiss	grey_green	FCG		Am FG, with variable amphibole.	5		
124.4	129.1	Amphibolite	green	FG		Fine grained Am. Patchy Diorite, Diorite and quartz veining 126.5-127.1m, and quartz rich felsic unit 127.3-127.6m.	3		
129.1	131.3	Diorite	grey	MG		Massive Di with patchy AMP. AMP 129.4-130m.	7		
131.3	133.9	Amphibole Felsic Gneiss	grey_green	FCG		AMFG with fairly consistent bt and amphibole.	5		
133.9	137.2	Felsic Gneiss (S)	grey	MG		FG(s), with amphibole 135.1-135.9m. Diorite texture 135.9-137.2m.	7		
137.2	139.2	Diorite	grey_white	FMG	VUG	Massive Di	7		
139.2	141.5	Felsic Gneiss (S)	grey	FMG		Dirty FG(s) with epidote.	7		
141.5	148.6	Amphibolite	green	FG		Fine grained Am with CL and EP	2		
148.6	159.3	Felsic Gneiss (S)	grey	FMG		Dirty FG(S) with intermixing Diorite texture. Patchy AMP sections.	7		
159.3	160.3	Amphibolite	green	FMG			1		
160.3	170.4	Felsic Gneiss (S)	grey	FG		Felsic gneiss (s) with cm to dm-scale pegmatite between 162.8-163.7m. Lower 2.4m more altered.	5		2
170.4	174.5	Amphibolite	green	FMG		AMP. Amphibole content varies throughout. Localised concentrations up to 5% biotite but generally up to 1%. Magnetite also variable, locally strongly magnetic. Weak foliation visible locally.	1		
174.5	181.1	Felsic Gneiss (S)	grey	FCG		FG(s). Very heterogeneous unit. Weakly foliated in upper portion, becomes more massive towards lower contact. Localised mm to cm-scale pegmatite in lower portion of unit.	2		1
181.1	183.2	Amphibolite	green	FMG		AMP. Foliation is generally weak to locally moderate.	5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
183.2	185.8	Felsic Gneiss (S)	grey	FMG		FG(s). Contains fine to medium grained disseminated amphiboles. Localised dm-scale quartz rich zones between 184-185.35m. Weak foliation visible locally.	2		
185.8	193.4	Diorite	grey	MCG		Relatively homogeneous diorite with medium-coarse grained quartz and feldspar. FG(s) between 191.7-192.2m. Generally weakly foliated, becomes stronger near lower contact.	1.5		
193.4	195.1	Felsic Gneiss (S)	grey	FG		FG(s). 10cm quartz rich interval between 193.7-193.8m. Foliation locally visible.	2		
195.1	196.2	Felsic Gneiss (S)	grey_green	FMG		FG(s). Differs from previous unit because of amphibole and magnetite content.	1		
196.2	200.1	UMLAMP Dike	dk grey	FCG		Brownish grey lamprophyre dyke. Contains 1-2% fine to medium-coarse grained soft black minerals. 3.5cm light green silicified chilled margin at upper contact with chlorite+calcite filled fractures.	5		
200.1	204.0	Felsic Gneiss (S)	pink			FG(s) with strong potassic alteration. Biotite content varies between 0.5-2%. Upper portion is moderately foliated then becomes weak to invisible down unit.	1		
204.0	211.2	UMLAMP Dike	dk grey	FMG		Dark brownish grey lamprophyre dyke. Contains locally up to 3% fine to medium-coarse grained soft black minerals. Approx 4cm large chilled margin at lower contact that contains a 2cm large calcite vein with talc on vein walls plus calcite filled fractures	3		
211.2	218.4	Felsic Gneiss (S)	grey	FMG		FG(s) with weak to strong potassic alteration throughout. Contains minor diorite (211.3-211.45m and 212.2-212.85m) and a lamprophyre dykelet near the lower contact (folded, 217.75-218.1m). Contains small intervals of pegmatite (215.2-215.4m)	0.5		5
218.4	222.6	UMLAMP Dike	dk grey	FMG		Dark brownish grey lamprophyre dyke. Contains locally up to 3% fine to medium-coarse grained soft black minerals. A few hematized minerals mostly near upper contact. Trace pyrite.	2		
222.6	224.9	Felsic Gneiss (S)	pink	FMG		FG(s) with strong potassic alteration. Localised aggregates of fine grained amphiboles (overall <0.5%).	0.2		
224.9	226.5	UMLAMP Dike	dk grey	FMG		Dark brownish grey lamprophyre dyke. Contains locally up to 1% fine to medium-coarse grained soft black minerals. Trace pyrite.	0.5		
226.5	230.0	Felsic Gneiss (S)	pink	FMG		FG(s) with weak to strong potassic alteration. Contains a 17X4cm lens of lamprophyre dyke at 227.5m. Localised disseminated fine grained amphiboles.	0.3		
230.0	230.8	UMLAMP Dike	dk grey	FMG		Dark brownish grey lamprophyre dyke. 2cm chilled margin at both upper and lower contacts. Trace pyrite.	0.2		
230.8	233.8	Felsic Gneiss (S)	pink	FG		FG(s) with strong potassic alteration. Generally massive but becomes weakly foliated towards lower contact.	0.2		
233.8	235.9	Felsic Gneiss (S)	grey	FMG		FG(s) with approx. 25% amphiboles. Weakly to moderately foliated throughout.	0.5		
235.9	237.0	Felsic Gneiss (S)	grey	FMG		FG(s) with moderate to strong potassic alteration. Massive to poorly foliated.	0.2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
237.0	240.4	UM\LAMP Dike	dk grey	FCG		Light greenish grey to dark brownish grey lamprophyre dyke. Trace pyrite.	3		
240.4	241.1	Felsic Gneiss (S)	grey_green	FMG		FG(s) with 5-25% amphiboles. Weakly to moderately foliated.	1.5		
241.1	242.0	Felsic Gneiss (S)	grey	FMG		FG(s) with less amphiboles and stronger potassic alteration than previous FG(s).	0.2		
242.0	243.0	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke with 1-2% fine to medium grained soft dark minerals.	4		
243.0	248.1	Felsic Gneiss (S)				FG(s), very heterogeneous unit: upper portion has weak to moderate potassic alteration, quartz eyes are present between 246.7-247.2m. Overall approximately 10-12% quartz veining,	4		
248.1	250.2	UM\LAMP Dike	dk grey	FG		Lamprophyre dyke, locally weakly magnetic.	2		
250.2	255.9	Amphibolite	grey_green	FG		Amphibolite with important quartz veining at top of unit containing sulphides (locally up to 2% pyrite and 45% pyrrhotite). Minor FG(s) 252.55-253.05m. Weakly to moderately foliated throughout.	0.1		
255.9	258.2	Diorite	grey	FMG		Diorite. Weakly to locally moderately foliated.	3		
258.2	259.4	Felsic Gneiss (S)	grey	MCG		FG(s). Contains up to 1.5cm large quartz crystals (10%).	2		
259.4	260.8	Amphibolite	grey_green	FMG		Amphibolite. Moderately to well foliated throughout. Contains diopside near lower contact.	0.5		
260.8	262.6	Felsic Gneiss (S)	grey	FMG		FG(s), contains quartz eyes 260.75-261.6m. Massive to weakly foliated.	2		
262.6	264.0	Amphibolite	grey	FG		Amphibolite.	0.2		
264.0	268.0	Felsic Gneiss (S)	grey	FG		FG(s). Silica flooded intervals 264.4-265.75 and 265.9-266.1m with coarse biotite near upper contact. Locally moderately foliated.	0.5		
268.0	271.9	Amphibolite	grey	FG		Amphibolite. Weak to moderately foliated throughout. Quartz veining with pyrite and pyrrhotite mineralisation.	2		
271.9	276.0	Felsic Gneiss (S)	grey	FMG		FG(s). Weakly vuggy 272.3-274.6m.	4	0.2	
276.0	278.5	Garnet Biotite Felsic Gneiss	grey	FCG		Garnet biotite FG. Moderately foliated throughout.	10	2	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
278.5	297.1	Felsic Gneiss (S)	grey	FMG		FG(s). A few fine grained garnets near upper contact. Grey fine grained intermediate dykelets 284.15-284.35m and 287.35-287.55m plus a few fingers. Diorite 290.4-290.6m. Unit is faulted and locally brecciated between 293.05-296.35m. Overall 3% biotite	3	0.1	
297.1	300.8	Garnet Biotite Felsic Gneiss	grey	FMG		Garnet biotite FG. Minor FG(g) 299.7-300.1m and 300.45-300.6m. Fine to rare coarse grained garnets, occur as clusters.	10	2	
300.8	305.8	Felsic Gneiss (G)	pink	FCG		FG(g). FG(s) between 302.85-303.0m. Massive to weakly foliated.	1		
305.8	309.1	Felsic Gneiss (S)	grey	FCG		Unit is actually a mix of FG(s) and FG(g). FG(g) between 306-306.4m, 306.65-307.3m, 308.3-309.05m but with cm-scale FG(s) in that last interval.	1.5		
309.1	309.8	Pegmatite		FCG		Pegmatite. Unit contains coarse grained biotite.	0.2		100
309.8	312.3	Felsic Gneiss (S)	grey	FMG		FG(s) with minor GBFG (309.75-310.15m) and fine grained diorite (311.5-311.9m). Weakly to locally moderately foliated.	1.5	0.2	
312.3	315.8	Pegmatite	beige	FCG		Pegmatite. Lamprophyre dykelet 314.5-314.65m.	2		
315.8	316.7	UMLAMP Dike	dk grey	FCG		Lamprophyre dyke (starts at 315.9m; diorite 315.8-315.9m). Very fine grained biotite. Dyke contains soft dark and also light grey minerals. No visible mineralisation.	5		
316.7	317.5	Diorite	dk grey	FMG		Fine grained diorite.	1		
317.5	318.3	UMLAMP Dike	brown	FMG		Ultramafic dyke. A few dykelets/pulses near the end with small amount of diorite. Not typical lamprophyre dyke; contains abundant fine grained black and beige minerals. No visible mineralisation.			
318.3	318.8	Diorite	grey	FG		Probable diorite, looks like an altered and finer grained version of the diorite that is just above, intruded by dykes.	2		
318.8	323.0	Pegmatite	beige	FCG		Pegmatite. Altered, weakly mineralised.	1		100
323.0	329.7	Felsic Gneiss (S)	grey	FMG		FG(s). Upper portion is altered and mineralised (3% pyrite). Rest of unit fairly homogeneous, relatively well foliated throughout. Localised clusters of fine to medium grained garnets.	2	0.2	
329.7	343.1	Felsic Gneiss (G)	pink	FCG		FG(g), fairly homogeneous, generally moderately foliated. Lower interval 341.65-343.1 is more quartz rich, locally pegmatitic.	1.5		1
343.1	345.3	UMLAMP Dike	dk grey	FMG		FG(s) at very top in contact with dyke (low angle, around 25deg) between 343.35-343.55m. 2cm large chilled margins at top and at bottom of dyke; light green and silicified and contain what look like fine grained garnets (whitish colour).	1.5		
345.3	348.3	Diorite	dk grey	FMG		Diorite. Locally deformed. Contains 2% fine grained amphiboles.	2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
348.3	351.2	Felsic Gneiss (S)	grey	FG		FG(s). Weakly to moderately foliated.	2	0.1	
351.2	353.7	Diorite	dk grey	FMG		Diorite. Weakly to locally moderately-strongly foliated.	6		
353.7	358.8	Garnet Biotite Felsic Gneiss	grey	FCG		GBFG. Minor FG(s) between 357.6-358.35m. Localised small-scale folding. Mineralised with up to 3% pyrite.	10	3	
358.8	360.3	Quartz Vein	grey	FCG		This is not a 1.55m massive quartz vein, rather an approx. 75% quartz veined interval, probably in FG(s) (but hard to tell for sure). 1 speck of VG at 359.72m	2		
360.3	362.5	Felsic Gneiss (S)	grey	FMG		FG(s). Unit contains minor diorite (360.3-360.65m) and amphibolite (360.65-360.8m).	1		10
362.5	363.7	Pegmatite	pink	FCG		Pegmatite. Altered and weakly mineralised.	0.5		100
363.7	366.1	Felsic Gneiss (S)	grey	FCG		FG(s). Contains minor diorite (363.75-363.95m). Contains biotite altered amphiboles. Up to approx. 20% pegmatite and quartz veining (some clear, some a mix of both); host rock around them is often strained. Locally moderately foliated.	4		12
366.1	368.7	Pegmatite	white	FCG		Pegmatite. Biotite stronger near upper contact. Locally fractured.	0.2		99
368.7	370.4	Quartz Vein	lt grey	FCG		Massive quartz vein in interval 368.65-369.5m and then probable quartz veining with increased biotite. 2 specks of VG disseminated within quartz vein at 368.7m.	0.5		
370.4	373.3	Felsic Gneiss (S)	grey	FMG		FG(s). Weakly to moderately foliated.	5		
373.3	375.1	Pegmatite	white	FCG		Pegmatite with about 15% FG(s).	2		85
375.1	376.1	Felsic Gneiss (S)	grey	FMG		FG(s). Moderately foliated.	5		
376.1	377.0	Amphibolite	green	FMG		Amphibolite. Weakly to moderately foliated.	0.2		
377.0	377.9	Felsic Gneiss (S)	grey	FG		FG(s). Weakly to moderately foliated.	4		
377.9	378.6	Amphibolite	green	FMG		Amphibolite.	0.1		
378.6	379.7	Felsic Gneiss (S)	grey	FG		FG(s).	5		
379.7	380.9	UMLAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	0.5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
380.9	381.8	Amphibolite	green	FMG		Amphibolite.	0.3		
381.8	382.9	Felsic Gneiss (S)	grey	FCG		FG(s) with quartz eyes (5%, between 382.2-382.85m) up to 1.5cm large.	3		
382.9	389.1	Amphibolite	grey_green	FMG		Footwall amphibolite. Locally weakly to moderately foliated. Interval 384.45-385.1 is a fine grained version of an amphibolite FG.	0.5	0.2	
389.1	390.5	Felsic Gneiss (S)	grey	FMG		FG(s).	3		
390.5	399.0	Amphibolite	grey_green	FCG		Footwall amphibolite. EOH=399m.	1	1.5	

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 402	Dip of Hole At Collar -65	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 15/12/2014	Date Completed 11/01/2015	Date Logged 15/12/2014 to 11/01/2015	Logged By K. Kenny	(m) degrees	(m) degrees	Property Name Borden	Easting 331615
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5303313
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.5	Casing							
2.5	16.6	Diorite	grey	FMG		Collared in a minor amphibolite @ 2.5-3.2m, with another @ 9.1-9.9m.	5	0	0
16.6	20.5	Amphibolite	green	FG			4	0	0
20.5	24.0	UMLAMP Dike							
24.0	51.1	Diorite	grey	FMG		Fairly plain uniform diorite with pegmatite @ 32.1-32.2m, 36.3-36.5m.	3	0	2
51.1	53.3	Quartz Feldspar Porphyry (QFP)	dk grey	FCG			15	0	0
53.3	56.4	Amphibolite	green	FG			4		0
56.4	74.3	Diorite	grey	FMG			6	0	2
74.3	78.7	Felsic Gneiss (S)	grey	MCG			5	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
78.7	83.8	Amphibole Felsic Gneiss	green	MG	POB		20	0	0
83.8	96.6	Diorite	grey	MG		Coarse chunks of pyrite centred around the quartz veins @ 88.3-88.4m, 88.5-88.7m.	6	0	2
96.6	99.2	Amphibolite	green	FG			4	0	0
99.2	101.1	Felsic Gneiss (S)	grey	MG			4	0	0
101.1	113.1	Amphibole Felsic Gneiss	green	MCG	POB		8	0	0
113.1	120.7	Felsic Gneiss (S)	grey	FMG		Numerous small patches of amphibolite.	5	0	0
120.7	128.6	Amphibolite	green	FG		Diorite @ 122.6-123.2m.	3	0	0
128.6	131.1	Diorite	grey	FMG		Amphibolite @ 29.6-29.7m.	5	0	0
131.1	132.6	Amphibolite	green	FG			2	0	0
132.6	140.5	Felsic Gneiss (S)	grey	FCG		Lamprophyre dike @ 139.9-140-3m.	4	0	5
140.5	150.3	Amphibolite	green	FG			2	0	5
150.3	178.7	Felsic Gneiss (S)	grey	FMG			6	0	2
178.7	180.5	Pegmatite	red	CG			2	0	100
180.5	181.4	Amphibolite	green	MG		Strong continuous section of amphibolite with a crystalline structure.	1	0	0
181.4	183.5	Felsic Gneiss (S)	grey	FMG		Pegmatite @ 181.4-181.8m.	2	0	20
183.5	191.7	Diorite	dk grey	FMG		Non-mineralized quartz vein @ 185.1-185.4m.	5	0	0
191.7	195.3	Felsic Gneiss (S)	grey	FMG			4	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
195.3	199.1	Amphibolite	grey_green	FMG		Weak amphibolite with intermixed felsic gneiss (s) @ 196.2-197.0m, 197.4-197.9m.	2	0	0
199.1	202.1	UMLAMP Dike							
202.1	210.3	Felsic Gneiss (S)	grey	FMG		Return to a more regular run of felsic gneiss (s) with disseminated fine grain biotite & minor amphibolite @ 203.6-203.7m, 207.3-207.6m; pegmatite @ 209.4-209.7m.	6	0	4
210.3	212.3	Amphibolite	grey_green	FMG		Similar to the previous weak amphibolite with intermixed felsic gneiss (s) @ 210.7-210.8m, 211.1-211.4m.	3	0	0
212.3	238.2	Felsic Gneiss (S)	grey	FMG		Continuation of the previous felsic gneiss (s). Amphibolite @ 234.2-235.1m.	5	0	3
238.2	239.5	Amphibolite	green	FG			2	0	0
239.5	249.5	Felsic Gneiss (S)	grey	FMG		Starting to show increased alteration, with sericite associated with and adjacent to fractures. Also includes a few small patches of amphibolite with sporadic garnets.	2	0.2	2
249.5	253.6	Amphibolite	green	FG		First instance of substantial pyrrhotite.	1	0	0
253.6	256.0	Diorite	grey	MG		Crystalline & quartz-rich with an elevated amount of disseminated sulphides for a diorite.	6	0	10
256.0	259.0	Amphibolite	green	FG		Similar to the previous amphibolite.	2	0	0
259.0	261.1	Felsic Gneiss (S)	grey	MG		Showing a strong silica content with some trailing sulphides coming from the grational upper contact with the amphibolite.	4	0	10
261.1	266.1	UMLAMP Dike							
266.1	270.2	Amphibolite	green	FG		Similar to the previous fine grain amphibolites with elevated sulphides.	2	0	0
270.2	275.5	Felsic Gneiss (S)	grey	FMG		Contains some weak localized concentrations of amphibolite, which are associated with sulphide mineralization. Lamprophyre dyke @ 270.2-270.6m.	6	0	10
275.5	280.4	Amphibolite	green	FG		Continuation of the previous amphibolite with the minor addition of some @ ~276.3m. Wedges of felsic gneiss (s) @ 278.5-278.7m, 278.9-279.1m; lamprophyre dyke @ 279.7-280.1m.	2	0.5	0
280.4	287.1	Felsic Gneiss (S)	grey	MG		Crystalline and silicious with numerous instances of pegmatite @281.2-281.4m, 284.3-284.4m, 284.8-285.0m, 285.2-285.4m; and a amphibole felisc gneiss @ 285.5-285.9m.	5	0	15
287.1	289.9	Amphibolite	green	FG			2	1	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
289.9	299.0	Felsic Gneiss (G)	pink	MCG		Rich in muscovite with occasional sillimanites along with variable potassic alteration. Garnet biotite felsic gneiss @ 289.9-290.3m.	1	0	5
299.0	301.1	Pegmatite	pink	CG	PEG		2	0	90
301.1	302.7	Felsic Gneiss (S)	grey	FMG		Slightly elevated in fine grain biotite.	10	0.3	0
302.7	306.3	Garnet Biotite Felsic Gneiss	dk grey	FMG		Not a particularly strong garnet biotite felsic gneiss, with lesser amounts of biotite & some weak pervassive potassic alteration.	20	0.5	0
306.3	308.0	Felsic Gneiss (S)	dk grey	FG		Continuation of the previous unit, with a complete diminishment of biotite.	3	1	0
308.0	309.3	Pegmatite	grey_white	MCG	PEG		1	0	80
309.3	313.2	Felsic Gneiss (S)	red	FG		A feldspathically altered felsic gneiss (s), most like as of a result of the lamprophyre dikes @ 310.0-310.3m, 311.2-311.7m. Pegmatite @ 312.4-312.6m,	3	0	5
313.2	314.5	Biotite Felsic Gneiss	dk grey	FG		A weak fine grain biotite felsic gneiss. Does not hold any particular promise.	18	0	5
314.5	316.4	Diorite	dk grey	FMG		A porphyritic unit with the phenocrysts feldspathically altered,	3	0	0
316.4	328.7	Felsic Gneiss (S)	grey_white	FCG	PEG	A busy unit with numerous pegmatites @ 318.5-318.9m, 320.7-321.0m, 321.3-321.5m, 322.5-322.8m; along with a garnet biotite felsic gneiss @ 317.8-318.5m, a diabase dike @ 319.2-319.6m & an amphibolite @ 324.9-325.5m.	2	0.3	20
328.7	332.2	Pegmatite	white	CG	PEG	Larger pegmatite with some local brecciation & a portion of felsic gneiss (s) @ 330.7-330.9m.	2	0	90
332.2	333.8	Felsic Gneiss (S)	grey	FMG		A somewhat felsic gneiss (s) with a pegmatite @ 333.3-333.6m.	4	0	15
333.8	334.8	Pegmatite	white	CG	PEG	A moderately brecciated pegmatite, with numerous re-cemented disjointed fractures. There is some medium grain sized blebs of pyrite hosted within some of the fractures.	1	0	100
334.8	337.8	Felsic Gneiss (S)	grey	MG		Just a small inter-section containing a pegmatite @ 336.8-336.9m.	5	0	3
337.8	338.8	Pegmatite	white	MCG	PEG	Quartz-rich pegmatite with some biotite-rich gneissic material intermixed within.	4	0	90
338.8	348.0	Felsic Gneiss (G)	lt grey	MG		Slightly altered from a regular felsic gneiss, with elevated muscovite content & a coarser, more randomized presentation. Fairly silicious in nature with knots of pegmatite distributed throughout the run.	3		8
348.0	350.2	Diorite	dk grey	FMG		Interrupting diorite.	5	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
350.2	353.0	Felsic Gneiss (G)	grey	FG		Continuation of the previous felsic gneiss (g) unit. Showing some alteration due to the adjacent intrusives. Lamprophyre dike @ 351.6-352.1m.	2	0	0
353.0	354.0	UMLAMP Dike							
354.0	356.5	Felsic Gneiss (G)	grey	FMG		Continuation of the previous felsic gneiss (g).	3	0	0
356.5	357.4	UMLAMP Dike				Small lamprophyre dike with a stub of diorite @ 356.5-356.7m.			
357.4	358.3	Diorite	grey	FMG			4	0	0
358.3	360.0	UMLAMP Dike				Includes a stub of diorite @ 359.5-360.m.			
360.0	369.1	Garnet Biotite Felsic Gneiss	grey_black	FMG		The portion to 363m is a little weaker, having felsic gneiss (g) tendency in locations along with scattered minor pegmatites. Thereafter the unit solidifies into a strong garnet biotite felsic gneiss with a lamprophyre dyke @ 366.3-366.7m and a potential QFP @ 367.0-367.7m.	30	3	5
369.1	376.0	Pegmatite	white	CG	PEG	Quartz-rich pegmatite with showings of visible gold @ 369.3m, 371.5m, 373.6m, 373.7m, 373.9m.	1	0	100
376.0	389.7	Felsic Gneiss (S)	grey	FMG		Change in grain size from fine to medium @ 382.2m with increasing amounts of biotite thereafter. Pegmatite @ 388.2-388.8m.	12	0	5
389.7	390.9	Amphibolite	green	FG		Small hint of foot wall amphibolite. Pegmatite @ 390.6-390.9m.	2	0	20
390.9	392.5	UMLAMP Dike				Ground core / lost core @ 391.5-392.5m.			
392.5	399.0	Pegmatite	pink	CG	PEG	Feldspathically altered felsic gneiss (s) @ 392.9-393.7m.	10	0	88
399.0	402.0	Amphibolite	green	FG		Proper foot wall amphibolite. EOH @ 402.0m!	5	0.5	0



Diamond Drilling Log

Hole No
DDH.
BL14-706

Page No
1 of 6

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 402	Dip of Hole At Collar -65	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 08/01/2015	Date Completed 13/01/2015	Date Logged 08/01/2015 to 13/01/2015	Logged By G. McFadden	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	4.1	Casing							
4.1	14.6	Diorite	grey	FCG		Localized sections of felsic gneiss (S).	7.5	0	1
14.6	16.7	Amphibolite	grey_green	MG			1.5	0	1
16.7	21.7	Diorite	grey	FCG			7.5	0	0
21.7	26.2	Diorite	grey_green	FMG		Intermixed sections of amphibolite.	2	0	0.5
26.2	55.2	Felsic Gneiss (S)	grey	FMG		10 cm thick QFP at 53.9-54.0m	10	0	1
55.2	55.9	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR		10	0	0
55.9	58.0	Felsic Gneiss (S)	grey	FMG			7.5	0	0
58.0	71.8	Diorite	grey	FMG	POR	Localized sections of mm to cm scale vugs.	10	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
71.8	81.5	Amphibole Felsic Gneiss	grey_green	FCG	POB	Unit composed of coarse grained amphibole porphyroblasts surrounded by medium grained biotite crystals within a fine grained felsic matrix.	15	0	0
81.5	88.8	Felsic Gneiss (S)	grey	FMG		Localized sections of diorite. Localized sections of variable biotite content.	5	0	0
88.8	93.3	Felsic Gneiss (S)	grey	MG			7	0	0.5
93.3	114.8	Felsic Gneiss (S)	grey	FMG		Localized 1-10cm sections of pegmatite.	7.5	0	2
114.8	116.5	Pegmatite	pink			Granitic pegmatite. Localized 1-2cm thick salvages of felsic gneiss (S).	1	0	98
116.5	124.5	Felsic Gneiss (S)	grey	FMG		Localized 10-30cm sections of amphibolite near lower contact. Localized mm to cm sections of vugs near lower contact.	10	0	1
124.5	128.9	Felsic Gneiss (S)	grey	FMG		5-10% coarse grained quartz. UM/Lamp at 125.5-125.6m.	10	0	0
128.9	132.6	Amphibolite	grey_green	FMG			2	0	0
132.6	134.7	Felsic Gneiss (S)	grey	FMG			5	0	0.5
134.7	137.2	Felsic Gneiss (S)	grey	FMG			3	0	0
137.2	140.2	Felsic Gneiss (S)	grey	FMG		Localized 10-20cm sections of diorite.	3	0	0
140.2	143.9	Felsic Gneiss (S)	grey_green	FMG		Intermixed with 20-40cm sections of amphibolite.	10	0	0
143.9	148.4	Felsic Gneiss (S)	grey	FMG		Pegmatite at 146.2-146.8m	10	0	1
148.4	149.8	Diorite	grey	FCG	POR		7.5	0	0
149.8	170.9	Felsic Gneiss (S)	grey	FMG		Pegmatite at 149.8-150.1, 150.2-150.5m, 159.8-160.2m, and 168.8-169.0. Amphibolite from 161.6-162.2m. UM/Lamp from 164.4-164.7m.	10	0	2
170.9	174.6	Amphibolite	green	MG		Intermixed with 10-30cm sections of amphibole felsic gneiss and ultramafic amphibolite.	7	0	0
174.6	175.7	Felsic Gneiss (S)	grey	FMG			7	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
175.7	177.8	Felsic Gneiss (S)	grey	FMG			3	0	10
177.8	179.1	Felsic Gneiss (S)	grey	FMG			2	0	0
179.1	184.1	Diorite	grey	FCG	POR		10	0	0
184.1	186.5	Felsic Gneiss (S)	grey	FMG			10	0	0
186.5	191.0	Amphibolite	green	FMG			2	0	0
191.0	196.6	Felsic Gneiss (S)	grey	FMG			3	0	0
196.6	198.9	Amphibolite	green	FMG		Biotite content increases slightly downhole.	7	0	0
198.9	201.0	Felsic Gneiss (S)	grey	FMG			7	0	2
201.0	204.2	Amphibolite	green	FMG			10	0	2
204.2	210.4	Felsic Gneiss (S)	grey	FMG		Localized variations in the biotite content.	10	0	0.5
210.4	211.1	Diorite	grey	FCG	POR		7	0	
211.1	214.0	Felsic Gneiss (S)	grey	FMG		Biotite content decreases slightly towards bottom contct.	10	0	0
214.0	218.6	Felsic Gneiss (S)	grey	FMG		Grain size increases slightly down hole.	5	0	0.1
218.6	228.7	Felsic Gneiss (S)	grey	MG		Localized variations in the biotite content	10	0	1
228.7	236.4	Felsic Gneiss (S)	grey	FMG		Amphibolite at 233.0-233.4m.	3	0	0
236.4	237.3	Amphibolite	green	MG			15	0	0
237.3	239.1	Felsic Gneiss (S)	grey	FMG		UM/Lamp dyke at 237.7-238.3m.	5	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
239.1	245.3	Felsic Gneiss (S)	grey	FCG	POR	Amphibolite at 250.0-250.1m. 3-5% coarse grained quartz.	5	0	0
245.3	247.5	Amphibolite	green	FMG		Intermixed with 10-15cm wide sections of felsic gneiss (s).	10	0	0
247.5	248.2	Felsic Gneiss (S)	grey	FMG			20	0	0
248.2	251.5	Amphibolite	green	MG		Diorite at 250.4-250.7m.	15	0	0
251.5	255.0	Diorite	grey	MG			10	0	3
255.0	257.7	Felsic Gneiss (S)	grey	MG			3	0	2
257.7	259.3	Felsic Gneiss (S)	grey	FG			10	0	0
259.3	261.7	Felsic Gneiss (S)	grey	FMG		Localized 10-15cm sections of diorite.	7	0	0
261.7	263.1	Amphibolite	green	FMG			10	0	0
263.1	272.1	Diorite	grey	FCG	POR	Pegmatite at 269.3-270.0m. UM/Lamp at 268.0-268.7m. Biotite content increases to 10-15% at 270.40-271.1m.	7	0	3
272.1	275.1	Amphibolite	green	FMG			15	0	0
275.1	279.4	Felsic Gneiss (S)	grey	FCG		Contains 2-5% coarse grained quartz eyes. Higher concentrations are towards the centre of the unit.	7	0	2
279.4	280.9	Amphibolite	green	FMG			15	0	0
280.9	283.1	Felsic Gneiss (S)	grey	FMG		Diorite at 290.1-290.3m.	20	0	0.25
283.1	286.7	Amphibole Felsic Gneiss	grey_green	FCG	POB	Unit composed of coarse grained amphibole porphyroblasts surrounded by medium grained biotite crystals within a fine grained felsic matrix.	20	0	0
286.7	288.2	Felsic Gneiss (S)	grey_black	FMG		Intermixed sections of garnet biotite felsic gneiss. Localized 10 cm thick pegmatites.	20	1	3
288.2	291.5	Amphibolite	grey_green	FMG			2	3	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
291.5	294.6	Garnet Biotite Felsic Gneiss	grey_black	FMG			30	2.5	5
294.6	300.5	Felsic Gneiss (G)	pink	MCG			1	0	1
300.5	301.9	Diorite	pink	FMG	POR	Unit contains 15% medium grained feldspar phenocrysts.	5	0	0
301.9	306.6	Felsic Gneiss (G)	grey	FMG			3	0	1
306.6	310.1	Garnet Biotite Felsic Gneiss	grey_black	FMG		10 cm thick section of amphibolite at 308.8m.	30	3	2
310.1	312.3	Amphibolite	grey_green	FMG			0.5	0.5	0
312.3	324.1	Felsic Gneiss (S)	grey	FMG		Intermixed sections of felsic gneiss (G). Section of diorite at 314.7-315.0m.	10	0	2
324.1	324.6	UM\LAMP Dike	beige	FG			0	0	0
324.6	334.9	Felsic Gneiss (G)	grey	FMG		Intermixed sections of felsic gneiss (S).	7.5	0	2
334.9	338.2	Garnet Biotite Felsic Gneiss	grey_black	FCG			35	3	0
338.2	340.2	Diorite	grey_black	FMG	POR		20	0	2
340.2	343.1	Garnet Biotite Felsic Gneiss	grey_black	FCG		Intermixed sections of granitic pegmatites.	30	1	50
343.1	345.2	Pegmatite	pink			Quartz rich granitic pegmatite.	1	0	100
345.2	346.5	Felsic Gneiss (G)	grey	FMG			5	0	10
346.5	352.4	UM\LAMP Dike	black	FMG		Localized salvages of altered felsic gneiss.	5	0	0
352.4	356.3	Amphibolite	green_pink	FMG		Looks like footwall amphibolite.	0.5	1.5	0
356.3	358.7	UM\LAMP Dike	black	FMG			10	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
358.7	359.7	Felsic Gneiss (G)	grey	FCG			3	0	0
359.7	363.9	Garnet Biotite Felsic Gneiss	grey_black	FCG			30	1.5	2
363.9	368.4	Quartz Vein	white			Quartz pegmatite with quartz flooding at margins. Visible gold at 365.1m, 367.9m, and 368.1m. Localized sections of amphibolite at 365.6-366.0m.	0.5	0	98
368.4	372.1	Felsic Gneiss (S)	grey	FMG		Section of amphibolite at 368.5-368.7m.	5	0	3
372.1	379.8	Felsic Gneiss (S)	grey	FMG			7.5	0	2
379.8	387.3	Felsic Gneiss (S)	grey	MG			10	0	2
387.3	402.0	Amphibolite	green_pink	FMG		Footwall amphibolite. EOH	0.5	0.5	0

Drilling Company Major	Core Size NQ	Collar Elevation (m) 429	Bearing of Hole from true North 205	Total Depth (m) 399	Dip of Hole At Collar -60	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 12/01/2015	Date Completed 16/01/2015	Date Logged 12/01/2015 to 16/01/2015	Logged By N. Lintner	(m) degrees	(m) degrees	Property Name Borden	Easting 331712 Northing 5303283 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	6.0	Casing							
6.0	7.1	Felsic Gneiss (S)	grey	FMG			5	0	2
7.1	10.4	Diorite	grey	FMG	POR	Porphyritic texture is moderately well developed. UM/Lamp dyke at 7.8-8.0m.	5	0	0
10.4	17.5	Felsic Gneiss (S)	grey	FMG		UM/Lamp dyke at 15.9-16.3m.	12.5	0	0
17.5	55.5	Diorite	grey	FCG	POR	Localized variability in porphyritic texture as well as biotite content (7-12%). Coarser grained section at 49.7-50.3m.	10	0	0
55.5	61.4	Diorite	grey	FMG	POR	Unit is similar to previous unit but is finer grained. Only weakly porphyritic.	5	0	0
61.4	65.5	Amphibolite	green	FMG			15	0	0
65.5	68.8	UM\LAMP Dike	dk grey	FG		Irregular contacts.	3		0
68.8	76.2	Diorite	grey	FMG		Weakly foliated. Several small 1-2cm UM/Lamp stringers throughout unit. Lower contact is sharp. Quartz vein at 70.0-70.2m.	7	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
76.2	77.8	Quartz Feldspar Porphyry (QFP)	dk grey	FCG	POR		10	0	0
77.8	103.1	Felsic Gneiss (S)	grey	FMG		Intermixed with sections of diorite. Several 30-60m sections that are completely sericite/potassic altered. Biotite content increases slightly down unit. Biotite rich section at 82.9-83.5 with up to 15% biotite.	7	0	0.5
103.1	119.6	Felsic Gneiss (S)	grey	FMG			7	0	0
119.6	121.7	Felsic Gneiss (S)	grey	FMG			10	0	0
121.7	123.7	Felsic Gneiss (S)	grey	FMG			5		0.5
123.7	129.6	Felsic Gneiss (S)	grey	FMG		Amphibolite at 126.5-126.6m.	10		0
129.6	130.6	Felsic Gneiss (S)	grey	FMG		Siliceous altered giving weak "banded" appearance.	3		0
130.6	133.3	UMLAMP Dike	dk grey	FG		Sharp but irregular contacts.	3		0
133.3	137.7	Felsic Gneiss (S)	dk grey	FMG			20	0	0
137.7	162.2	Felsic Gneiss (S)	grey	FMG		Amphibolite at 144.9-144.4m. Pegmatite at 153.3-154.0m. Localized dioritic sections.	12	0	3
162.2	177.1	Felsic Gneiss (S)	grey	FMG		Heavily altered. Amphibolite at 170.3-170.6m and 171.8-172.3m	3	0	0.1
177.1	179.3	Amphibole Felsic Gneiss	dk grey	FMG			15	0	0
179.3	179.8	Felsic Gneiss (S)	grey	FG			7	0	0
179.8	182.2	Quartz Feldspar Porphyry (QFP)	dk grey	FCG	POR	Pegmatite at 182.6-188.8m.	12	0	5
182.2	188.0	Amphibolite	green	FMG		UM/Lamp at 182.8-183.4m and UM/Amphibole at 186.2-187.1m. Biotite content increase up to 20% in this interval.	10	0	0
188.0	189.9	Felsic Gneiss (S)	grey	FMG			3	0	0
189.9	192.7	Amphibolite	green	FMG			3	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
192.7	196.1	Diorite	grey	FCG	POR		5	0	0.5
196.1	204.1	Felsic Gneiss (S)	grey	FMG			10	0	0
204.1	206.3	Amphibolite	green	FMG		Small section of FGS at 206.1-206.2m. Non-magnetic.	2	0	
206.3	210.7	Felsic Gneiss (S)	grey	FMG		Small sections containing hornblende after 210.0m. Quartz vein at 206.7-207.1m.	7	0	
210.7	211.8	Amphibolite	green	FMG			3	0	1
211.8	214.8	Diorite			POR	Pegmatite at 213.2-213.3m.	3	0	2
214.8	217.4	Amphibolite	green	FMG		Felsic gneiss (S) at 214.9-215.0m.	7	0	0
217.4	222.5	Felsic Gneiss (S)	grey	FMG		Localized diorite sections.	7	0	0.5
222.5	223.4	Quartz Feldspar Porphyry (QFP)	dk grey	FCG	POR		7	0	0
223.4	231.1	Felsic Gneiss (S)	grey	FMG		"Dirty" felsic gneiss (S). Weak banded appearance due to clustering of biotite and felsic minerals. Localized sections of diorite.	10	0	0.1
231.1	232.1	Diorite	grey	FMG	POR		3	0	0
232.1	240.7	Felsic Gneiss (S)	grey	FMG		Localized sections of diorite.	7	0	2
240.7	242.2	Amphibole Felsic Gneiss	grey_green	FMG		"Dirty" Felsic gneiss with bands containing hornblende. Band thickness is irregular (under 10cm thickness) and hornblende content varies.	10	0	0
242.2	248.2	Felsic Gneiss (S)	grey			Localized sections of diorite. Amphibolite at 247.1-247.2m.	3	0	1
248.2	251.5	Amphibolite	green	FMG		Felsic gneiss (S) at 249.2-250.4m.	15	0	1
251.5	253.9	Felsic Gneiss (S)	grey	FMG		Quartz vein @ 251.6-251.7m.	3	0	1
253.9	256.0	Amphibolite	green	FMG		Felsic gneiss (S) at 254.6-255.2m.	10	0	0.1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
256.0	258.2	Felsic Gneiss (S)	grey	FCG	POR	3-5% coarse grained quartz eyes. Quartz vein at 257.4-257.6m.	5	0	0.1
258.2	259.1	Amphibolite	green	FMG			12	0	0
259.1	260.6	Felsic Gneiss (S)	grey	FCG	POR	3-5% coarse grained quartz eyes.	3	0	0
260.6	265.7	Amphibolite	green	FMG		Banded appearance due to thin, more felsic rich bands (1cm scale) as well as intermixed sections of felsic gneiss (S). Felsic gneiss (S) at 262.5-262.9m.	10	0	0
265.7	268.8	Diorite	grey	FCG	POR	Biotite and alteration increases after 267.9m.	7	0	1
268.8	270.2	Amphibolite	green	FMG			12	0	3
270.2	275.4	Diorite	grey	FMG	POR	Intermixed with sections of felsic gneiss (S). Amphibolite with pyrrhotite at 270.7-270.9m.	10	0	2
275.4	277.6	Amphibolite	green	FMG			3	0	0
277.6	278.9	Diorite	grey	FMG	POR		7	0	0
278.9	280.8	Diorite	grey	FMG		Alternating sections (10-30cm) of amphibolite and diorite.	7	0	0
280.8	282.5	Amphibolite	green	FMG			15	0	0
282.5	286.0	Diorite	grey	FMG	POR	Amphibole felsic gneiss at 285.3-285.5m.	10	0	7
286.0	287.0	Amphibolite	green	FMG		Felsic gneiss (S) at 286.4-286.5m.	20	0	0
287.0	287.9	Diorite	grey	MG			3	0	1
287.9	290.0	Felsic Gneiss (S)	lt grey	FCG		Pegmatite at 282.1-282.3m, 282.6-282.8m, and 283.0-283.2m. Unit is heavily altered (silicified) and resembles more of a granitic gneiss.	10	0	15
290.0	293.4	Felsic Gneiss (S)	grey	FMG		Biotite content increases slightly after 290.7m.	20	0	2
293.4	298.4	Amphibolite	green	FMG		Garnets have irregular, clustered distribution. UM/Lamp dyke at 297.6-298.0m	5	2	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
298.4	300.7	Felsic Gneiss (G)	pink	FCG			2	0	2
300.7	303.3	UM\LAMP Dike	dk grey	FG		Lower contact is irregular and at a small angle TCA (<10) with several stringers.	25	0	0
303.3	308.0	Felsic Gneiss (G)	pink	MCG		Biotite felsic gneiss at 304.7-304.9m.	1	0	0
308.0	310.3	Diorite	grey	FCG	POR		3	0	0
310.3	313.9	Felsic Gneiss (G)	lt grey	FCG		Pegmatite at 313.7-313.9m.	3	0	2
313.9	315.9	Garnet Biotite Felsic Gneiss	green_pink	MG			35	3	0
315.9	318.0	Amphibolite	green	FMG		Quartz vein at 316.2-316.3m.	15	2	0
318.0	321.0	Garnet Biotite Felsic Gneiss	green_pink	FCG		Pegmatite at 319.3-318.7	40	3	20
321.0	321.8	Amphibolite	green	FMG			5	2	0
321.8	324.8	Felsic Gneiss (G)	lt grey	FMG		Biotite felsic gneiss at 322.4-322.7m and 323.3-323.5m.	5	0	1
324.8	328.5	Garnet Biotite Felsic Gneiss	green_pink	FMG			35	2	0
328.5	331.4	Felsic Gneiss (G)	pink	FCG		Localized sections of Felsic Gneiss (S).	4	0	0.5
331.4	332.5	Felsic Gneiss (S)	grey	FMG			3	0	5
332.5	334.9	Felsic Gneiss (G)	orange	FG		Intermixed with small sections of Felsic Gneiss (S).	3	0	0.2
334.9	335.8	Felsic Gneiss (S)	grey	FG			7	0	0
335.8	337.2	Felsic Gneiss (S)	grey	FMG		Intermixed with sections of Felsic Gneiss (S).	3	0	0.2
337.2	345.3	Felsic Gneiss (G)	pink	FMG		Quartz vein at 340.3-340.5m and quartz rich pegmatite at 343.7-343.8m.	3	0	3

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
345.3	349.1	Garnet Biotite Felsic Gneiss	green_pink	FMG		Small section of Felsic Gneiss (G) at 346.3-346.5m. Pegmatite at 345.3-345.6m and 347.6-348.1m. Heavily altered.	30	2	5
349.1	351.1	Pegmatite	pink	CG		35	1		98
351.1	352.6	Quartz Vein	lt grey	FG		5 flecks of visible gold.	2	0	2
352.6	355.1	Felsic Gneiss (S)	dk grey	FG		Strongly foliated and siliceous. Quartz vein at 353.4-353.6m.	10	0	0
355.1	356.0	Amphibolite	green	FG			20	0	65
356.0	357.8	Quartz Vein	grey	FG		30% of the unit is made up of thin sections of Felsic Gneiss (S).	5		0
357.8	362.9	Felsic Gneiss (S)	grey	FMG			12	0	1
362.9	368.9	Amphibolite	green	FMG		Start of footwall amphibolite.	10	1	0
368.9	371.2	Felsic Gneiss (S)	grey	FG			3	0	2
371.2	399.0	Amphibolite	green	FMG		Diorite at 372.5-373.1m. Quartz vein at 376.4-377.0m, 394.9-395.4m, and 396.0-396.2m. Localized variations in garnet content with local concentrations up to 5% over 5cm.	7	2	2

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 399	Dip of Hole At Collar -60	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 12/01/2015	Date Completed 14/01/2015	Date Logged 12/01/2015 to 14/01/2015	Logged By K. Kenny	(m) degrees	(m) degrees	Property Name Borden	Easting 331615 Northing 5303313 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.5	Casing							
3.5	20.9	Diorite	grey	MG		Large over cap of diorite with some localized variations in texture. Amphibolite @ 8.8-9.4m.	4	0	0
20.9	22.6	Amphibolite	green	FG		Diorite @ 22.2-22.6m.	8	0	0
22.6	26.3	UMLAMP Dike							
26.3	51.0	Diorite	grey	FMG		Continuation of the previous diorite. QFP @ 49.8-50.4m.	4	0	1
51.0	56.0	Amphibolite	grey_green	FG		Weak amphibolite with a moderate amount of pyrite mineralization.	5	0	0
56.0	66.7	Diorite	grey	FMG		Continuation of the previous diorite. Quartz vein @ 64.7-65.1m	5	0	0
66.7	74.0	Felsic Gneiss (S)	grey	FG			4	0	0
74.0	84.0	Amphibole Felsic Gneiss	grey_green	FCG	POB		3	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
84.0	90.0	Diorite	grey	FMG		Quartz vein @ 88.0-88.2m.	5	0	0
90.0	114.3	Felsic Gneiss (S)	grey	FMG		Quartz vein @ 96.9-97.1m, 109.6-109.7m. Some scattered minor amphibolites towards the lower contact.	4	0	0
114.3	116.3	Amphibolite	grey	FG			1	0	0
116.3	122.5	Felsic Gneiss (S)	grey	FCG		Continuation of the previous felsic gneiss (s). Amphibolite @ 118.2-119.1m.	4	0	0
122.5	123.9	Amphibolite	green	FG			2	0	0
123.9	126.4	Felsic Gneiss (S)	grey	FCG		Continuation of the previous felsic gneiss (s).	4	0	0
126.4	138.8	Amphibolite	grey_green	FG		Felsic gneiss (s) @ 129.4-130.4m; pegmatite @ 134.6-135.1m.	4	0	0
138.8	144.0	Felsic Gneiss (S)	grey	FMG		Lamprophyre dike @ 140.2-140.9m; pegmatite @ 143.3-144.0m.	4	0	15
144.0	148.2	Amphibolite	green	FG			2		0
148.2	151.0	Diorite	grey	FMG			4	0	0
151.0	152.7	Amphibolite	grey_green	FG			2	0	0
152.7	154.7	Felsic Gneiss (S)	grey	FMG		Something of a mixed unit with disseminated amphiboles and elevated biotite.	8	0	3
154.7	160.8	Amphibolite	green	FG			2	0	4
160.8	166.1	Felsic Gneiss (S)	grey	FMG			5	0	2
166.1	171.5	Amphibolite	green	FMG	POB	Fine grain amphibole host with a biotite porphyroblasts.	30	0.1	0
171.5	175.1	Felsic Gneiss (S)	grey	FMG			5	0	0
175.1	179.3	Diorite	grey	FMG			6	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
179.3	181.1	Felsic Gneiss (S)	grey	FMG			5	0	0
181.1	183.3	Quartz Feldspar Porphyry (QFP)	dk grey	FCG			10	0	0
183.3	186.4	Felsic Gneiss (S)	grey	FMG			5	0	1
186.4	187.6	Amphibolite	green	FG			2	0	0
187.6	189.3	Felsic Gneiss (S)	grey	FMG			5	0	0
189.3	191.0	Amphibolite	green	FG			2	0	0
191.0	245.2	Felsic Gneiss (S)	grey	FMG		A couple of weak zones with elevated amphibole @ 202.7-204.6m & 207.1-207.9m. Not particularly foliated. Some localized minor feldspathic alteration adjacent to fractures.	4	0	1
245.2	250.1	Amphibolite	green	FG		Starting to see more sulphides in the rock; therefore, from this unit henceforth will be sampled. Quartz vein @ 248.6-248.9m.	2	0	0
250.1	251.5	Diorite	grey	FMG			5	0	0
251.5	253.4	Amphibolite	green	FG		Felsic gneiss (s) @ 252.2-252.5m.	2	0	1
253.4	263.4	Felsic Gneiss (S)	grey	FMG		Pegmatite @ 253.4-253.7m; quartz vein @ 254.0-254.3m; amphibolite @ 255.5-256.1m, 259.3-260.1m.	5	0	3
263.4	269.3	Amphibolite	green	FG			2	0	0
269.3	273.4	Pegmatite	white	MCG	PEG	Felsic gneiss (s) @ 271.1-271.7m, 271.9-272.0m, 273.1-273.4m.	2	0	80
273.4	275.0	Amphibolite	green	FG			2	0	0
275.0	276.1	Diabase Dike							
276.1	279.1	Felsic Gneiss (S)	grey	FMG			4	0	2
279.1	281.5	Amphibolite	green	FG		First appearance of garnet, combined with moderate amounts of pyrrhotite and pyrite.	2	0.3	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
281.5	287.4	Felsic Gneiss (S)	grey	FMG		Showing slight hints of garnet biotite felsic gneiss	0	0.3	3
287.4	290.6	Garnet Biotite Felsic Gneiss	dk grey	FMG		First run of garnet biotite felsic gneiss, representing the transition to the low-grade ore zone. Also includes some muscovite and sillimanite.	25	1	3
290.6	292.7	Felsic Gneiss (G)	grey	FG			7	0	0
292.7	294.3	Amphibolite	green	FG		Fairly weak amphibolite interrupting the run of felsic gneiss (g).	1	0	0
294.3	305.6	Felsic Gneiss (G)	pink	MG		Continuation of the previos felsic gneiss (g). Pegmatite @ 295.1-295.5m.	1	0	5
305.6	307.3	Amphibolite	green	FG		Another weak amphibolite, possibly just an extension of the fine grain garnet biotite felsic gneiss at the lower contact.	3	0.3	0
307.3	309.4	Garnet Biotite Felsic Gneiss	grey	FG		A weak, fine-grain, garnet biotite felsic gneiss.	25	1	0
309.4	316.2	Felsic Gneiss (G)	grey	FMG		Feldspathic alteration associated with the lamprophyre dikes @ 313.7-313.8m, 315.8-316.2m. Diorite @ 311.6-312.0m.	5	0	2
316.2	318.3	Garnet Biotite Felsic Gneiss	dk grey	FMG		A section of classic garnet biotite felsic gneiss with abundant biotite & elevated sulphides.	30	0.3	5
318.3	320.4	Pegmatite	grey_white	MCG	PEG	Quartz-rich felsic gneiss (s) @ 318.7-318.8m, 319.7-320.0m.	5	0	80
320.4	321.8	Felsic Gneiss (S)	grey	MG			3	0	0
321.8	323.2	Diorite	dk grey	FMG			5	0	7
323.2	334.7	Felsic Gneiss (G)	pink	FMG		Continuing in a similar simialr style as was observed with previous granitic felsic gneisses. Showing random large muscovite clots with occasional blebs of sillimanite.	4	0	5
334.7	336.5	Garnet Biotite Felsic Gneiss	dk grey	FG		Pegmatite @ 336.3-336.5m.	25	0.5	10
336.5	345.0	Felsic Gneiss (S)	grey	FMG		Some localized fg(g) tendencies, by and large mostly barren. Pegmatite @ 339.5-339.6m; amphibolite @ 341.4-342.3m.	2	0	3
345.0	346.2	Diorite	dk grey	FMG		Sheared / altered diorite.	5	0	0
346.2	354.7	Felsic Gneiss (G)	lt grey	FMG		Similar to the previous felsic gneiss (g), with above average sillimanite levels. Pegmatite @ 351.0-351.3m.	2	0.3	4

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
354.7	357.7	Garnet Biotite Felsic Gneiss	dk grey	FMG		Entering the zone of higher grade gold mineralization.	25	5	0
357.7	358.5	Diorite	dk grey	FMG		Interrupting diorite with poor potential to grade, mainly dilution. Pegmatite @ 358.4-358.5m.	4	0	10
358.5	360.0	Garnet Biotite Felsic Gneiss	grey_white	FMG		Continuation of the previous garnet biotite felsic gneiss. Pegmatite @ 358.6-358.7m, 359.8-360.0m.	25	0.5	20
360.0	361.5	Felsic Gneiss (G)	grey	FMG		Perhaps an alteration product of the two garnet biotite felsic gneisses on either side of this unitl.	5	0.3	0
361.5	362.7	Garnet Biotite Felsic Gneiss	grey_black	FMG		Becoming very silicious with increasing amounts of sulphides. Starting to lose some of the biotite.	20	0.5	0
362.7	365.9	Quartz Vein	white	CG		Localized, massive, bleebly pyrite & pyrrhotite within a quartz vein that has appeared to have consumed a garnet biotite felsic gneiss. sulphides are notcieable concentrated @ 363.0-364.2m.	1	0.3	0
365.9	367.7	Pegmatite	white	CG		Mostly quartz, with the odd knot of feldspar. Mostly barren, opaque quartz lacking sulphides.	0.2	0	100
367.7	369.3	Quartz Vein	white	CG		Continuation of the previous quartz vein, although slightly more fractured. Multiple specs VG @ 368.2-368.8m.	0.5	0	0
369.3	370.8	Felsic Gneiss (G)	grey	FMG		Transitional zone from the quartz vein ore zone to the foot wall felsic gneiss (s). Pegmatite @ 370.4-370.8m.	6	0.5	25
370.8	385.2	Felsic Gneiss (S)	grey	FMG		Pegmatite @ 384.2-384.6m.	6	0	5
385.2	399.0	Amphibolite	green	FG		The foot wall amphibolite. EOH @ 399.0m!	2	0.3	0

Drilling Company Major	Core Size NQ	Collar Elevation (m) 430	Bearing of Hole from true North 205	Total Depth (m) 399	Dip of Hole At Collar -60	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 13/01/2015	Date Completed 18/01/2015	Date Logged 13/01/2015 to 18/01/2015	Logged By I. Therriault	(m) degrees	(m) degrees	Property Name Borden	Easting 331564 Northing 5303338 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.1	Casing							
3.1	12.2	Diorite	lt grey	FMG	MELT	Diorite. Massive. Localised melt textures on cm-scale. Locally vuggy (minor). Not much alteration.	3		
12.2	12.7	Amphibolite	green	FMG	VUG	Amphibolite.	0.5		
12.7	13.4	Diorite	lt grey	FCG		Diorite. Locally vuggy (minor). Contains rare cm-scale finer grained darker enclaves of diorite.	3		
13.4	16.7	Amphibolite	green	FMG		Amphibolite. Locally vuggy (minor). Contains locally up to 3% pyrite and minor pyrrhotite.	0.3		
16.7	18.6	Diorite	grey	FMG		Diorite that contains patches of amphiboles and quartz, no preferred orientation. Minor discontinuous and discordant amphibolite (18.2-18.4m).	5		
18.6	19.2	Amphibolite	grey_green	FMG		Amphibolite. Weakly to moderately foliated.			
19.2	26.1	Diorite	lt grey	FMG		Diorite. Locally vuggy (minor). Massive to weakly foliated.	2		
26.1	29.8	Amphibolite	green	FMG		Amphibolite. Includes diorite between 26.4-26.55m. Upper portion well foliated. Locally vuggy (very minor). 2% pyrite.	0.2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
29.8	33.8	Diorite	grey	FMG	MELT	Diorite. Includes amphibolite 32.5-32.65m. Massive to locally foliated. Includes cm-scale intervals of coarse quartz-biotite (melt?)	1		
33.8	38.8	Amphibolite	green	FMG		Amphibolite. Includes more felsic looking, less amphiboles interval (35.25-37.4m). Vuggy (strong) between 35.5-36m and minor in rest of unit. Contains locally up to 2% pyrite and 0.5% pyrrhotite.	0.5		
38.8	40.1	Diorite	grey	FMG		Diorite. Massive.	1.5		
40.1	43.3	Amphibolite	green	FMG		Amphibolite. Locally vuggy (minor). 2% pyrite and 0.3% pyrrhotite.	1		
43.3	45.5	Diorite	grey	FG		Diorite. Strongly altered between 44.15-45.1m. Variable biotite content.	2		
45.5	55.4	UMLAMP Dike	dk brown	FCG		Lamprophyre dyke. Localised lenses of diorite up to 10cm large.	1		
55.4	58.6	Diorite	grey	FG		Diorite with lamprophyre dykelets. Altered near contacts.	0.2		
58.6	59.8	UMLAMP Dike	dk brown	FCG		Lamprophyre dyke similar to one above.	3		
59.8	64.1	Diorite	grey	FG		Diorite. Contains cm-scale localised lamprophyre dykelets. 20cm quartz vein, 1.5% pyrite above and below.	0.2		
64.1	65.6	UMLAMP Dike	dk brown	FMG		Lamprophyre dyke. Interval 64.4-65.15m is diorite intruded by several irregular lamprophyre dykelets.	0.5		
65.6	66.6	Diorite	grey	FMG		Diorite. Massive and heterogeneous.	0.1		
66.6	67.4	UMLAMP Dike	dk brown	FCG		Lamprophyre dyke. Contains up to 3cm large white subangular fragments that themselves sometimes contain dark fragments. No visible mineralisation.	0.2		
67.4	69.8	Diorite	grey	FG	MELT	Diorite. Massive. Localised cm-scale melt textures.	0.2		
69.8	70.5	UMLAMP Dike	dk brown	FG		Lamprophyre dyke.	0.1		
70.5	80.5	Diorite	grey	FCG		Diorite. Massive to locally weakly foliated (possible FG(s) cm-scale intervals). Heterogeneous unit. Rare up to 2cm large lamprophyre dykelets. Biotite content is variable. Near upper contact cm-scale coarser grained quartz rich sections.	1		
80.5	81.4	Amphibolite	green	FMG		Amphibolite. Foliated but foliation tends to be wavy and inconsistent. Contains 12cm large lamprophyre dykelet.	5		
81.4	86.7	Diorite	grey	FCG		Diorite. Heterogeneous unit, contains cm-scale irregular coarse grained sections. Vuggy section in quartz vein 84.1-84.15m. Dykelet 86.1-86.2m.	2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
86.7	87.2	UM\LAMP Dike	dk brown	FMG		Lamprohpyre dyke. No visible mineralisation.	3		
87.2	91.1	Diorite	grey	FMG		Diorite to locally FG(s)-looking. Vuggy (minor) 88.25-88.4m.	1		
91.1	97.5	Felsic Gneiss (S)	lt grey	FMG		FG(s). Locally weakly to moderately foliated. Locally vuggy (minor).	1.5		
97.5	116.7	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amphibole FG. Amphibole and biotite content vary. Unit contains up to 30cm large felsic intervals with no more than 2-3% amphiboles, minor riebeckite. Biotite is often rimming and (at least partially) replacing amphiboles. Weakly to locally strongly foliated	10		
116.7	120.4	Diorite	grey	FMG		Diorite. Massive to very weakly foliated. Locally vuggy (very minor).	1		
120.4	124.8	Amphibolite	green	FG		Amphibolite but contains felsic intervals, usually cm-scale but up to 35cm (123.05-123.4m). Generally weakly to moderately foliated. Locally vuggy (very minor).	0.5		
124.8	129.9	Felsic Gneiss (S)	grey	FCG		FG(s) with quartz eyes. Weakly foliated. Contains minor fine grained amphiboles. Not very much altered.	1		
129.9	131.1	Amphibolite	green	FG		Amphibolite with felsic intervals (generally mm-scale). Minor vugs.	0.5		
131.1	132.5	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amphibole FG. Looks like diorite down to 131.2m then felsic down to 131.45m. This is AMPG but looks like the more felsic portions of the previous AMPG. At 131.85m appears that biotite are almost completely replacing amphiboles.	10		
132.5	134.6	Amphibolite	green	FG		Amphibolite. Vuggy and crumbly 134.15-134.25m. Weakly to moderately foliated. 0.5-1% pyrite.	0.5		
134.6	136.2	Diorite	grey	FMG		Diorite. Contains mm to cm-scale amphibolite. Massive to weakly foliated. Trace pyrite.	1		
136.2	141.8	Amphibolite	green	FG	VUG	Amphibolite. Amphibole content is variable, 5-40%. Foliated. Locally vuggy (minor). Up to 2% pyrite.	1.5		
141.8	146.1	Diorite	grey	FG		Diorite to locally more FG(s). Minor mm-scale amphibolite intervals. Locally weakly to moderately foliated. 0.5-0.75% pyrite.	1.5		
146.1	148.8	Amphibolite	green	FG		Amphibolite. Weakly to moderately foliated. 2% pyrite.			
148.8	150.8	Diorite	grey	FG		Diorite. Contais mm to cm-scale amphibolite. Altered. 1.5% pyrite.	1		
150.8	152.2	Felsic Gneiss (S)	grey	FG		FG(s) (or is it foliated diorite?). Weakly to moderately foliated. 0.5% pyrite.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
152.2	155.4	Amphibolite	grey_green	FG		Amphibolite. Interval 152.5-153.1m contains FG(s); two lithologies are in low angle contact. The contact of the amphibolite appears intrusive. Weakly foliated, foliation is variable.0.5 to 1.5% pyrite.	1		
155.4	157.1	Felsic Gneiss (S)	grey	FMG		FG(s). Foliated. 0.5% pyrite.	1.5		
157.1	161.3	Amphibolite	green	FCG		Amphibolite. Weakly to moderately foliated. Quartz vein at 157.2 turning into pegmatite around 157.45, down to 157.85m, mineralised with pyrite and pyrrhotite. Rest of unit has up to 2% pyrite and 0.2% pyrrhotite	2		10
161.3	170.0	Felsic Gneiss (S)	grey	FG		FG(s) with amphibolite (162.15-162.65m, 163.55-163.75m; unit also contains amphibole-rich intervals. Weakly to moderately foliated. Locally vuggy (minor). 168.05-168.45m pegmatite. 0.5% pyrite.			5
170.0	171.0	Amphibolite	green	FG		Amphibolite. Foliated. Trace pyrite.	1		
171.0	180.9	Felsic Gneiss (S)	lt grey	FMG		FG(s) with diorite-looking cm-scale intervals. Amphibole-rich intervals in diorite-looking rock starting at 178.3m. 3% quartz eyes 176-178.3m. Trace pyrite.	2		
180.9	187.8	Amphibolite	green	FG		Amphibolite. Contains up to 35cm large diorite intervals. Well foliated. Trace pyrite.	5		
187.8	202.2	Felsic Gneiss (S)	lt grey	FMG		FG(s). Weakly to locally moderately foliated. Trace up to 0.5% pyrite.	2		
202.2	202.7	UMLAMP Dike	dk brown	FMG		UM dyke.	2		
202.7	204.2	Amphibolite	green	FG		Amphibolite. Looks altered because of close proximity to dykes, weakly fractured (healed). 0.5% pyrite.	0.5		
204.2	212.8	Diabase Dike	dk grey	FG		Diabase dyke. 204.15-204.7m is brecciated chilled margin. Fractured over dm-scale intervals. No visible sulphides.			
212.8	229.4	Felsic Gneiss (S)	pink	FCG		FG(s). Intense potassic alteration down to 216.3 then intensity decreases down to 219.15m. Biotite content is variable, mostly absent in potassic altered intervals. Trace pyrite.	1.5		
229.4	232.0	Diorite	grey	FMG		Amphibole-rich diorite. 20cm FG(s). Trace pyrite.	3		
232.0	248.1	Felsic Gneiss (S)	grey	FG		FG(s). Foliated. 5% quartz veining in upper portion. Up to 1% pyrite, pyrrhotite visible starting at 245.5m.	2		
248.1	250.2	Diorite	grey	FMG		Diorite 248.1-249.7m then FG(s) to lower contact. Foliated. 5cm bleb of pyrrhotite with minor pyrite, otherwise trace pyrite and pyrrhotite.	1		
250.2	251.5	Quartz Vein	white	FCG		Quartz vein with localised blebs of pyrrhotite (5% overall) plus trace pyrite and chalcopyrite.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
251.5	255.0	Felsic Gneiss (S)	grey	FCG		FG(s). Weakly foliated. A few quartz eyes near lower contact. Unit contains cm to dm-scale pegmatitic intervals, largest 253.85-254.15m. Trace pyrite and up to 0.5% pyrrhotite.	2		15
255.0	257.4	Amphibolite	green	FMG		Amphibolite, amphibole content decreases after 256.65m. Trace pyrite and 0.5% pyrrhotite.	2	0.2	
257.4	262.7	Felsic Gneiss (S)	grey	FMG		FG(s). Foliated. 45cm quartz vein. 0.75% pyrite and 0.5% pyrrhotite.	1.5		4
262.7	267.8	Amphibolite	grey	FCG		Amphibolite with variable amphibole content. 0.4% pyrite and 0.75% pyrrhotite.			
267.8	273.1	Felsic Gneiss (S)	grey	FMG		FG(s). Locally amphibole rich. Biotite content is variable, higher in amphibole-rich intervals. Up to 1.5% pyrite and trace pyrrhotite.	3		
273.1	274.3	Quartz Vein	white	FCG		Quartz vein between 273.3-273.85m, rest is pegmatite. 0.5% pyrite in pegmatite.	2		50
274.3	278.5	Felsic Gneiss (S)	grey	FCG		FG(s), very heterogeneous. Localised amphiboles. Garnet biotite FG 276.25-276.45m. 30cm interval with up to 3% pyrite.		0.1	1
278.5	279.3	Amphibolite	grey	FMG		Garnet rich amphibolite. Foliated. 3% pyrite.	1	3	
279.3	285.4	Felsic Gneiss (S)	grey	FCG		FG(s), very heterogeneous. Locally foliated. Up to 10cm large pegmatitic intervals. In upper first metre mm-scale up to a few cm large diorite looking intervals. Garnet biotite FG 283.2-283.4m. Lamprophyre dykelet 285.15-285.35m.	2	0.2	10
285.4	290.5	Felsic Gneiss (G)	grey	FCG		FG(g), contact with FG(s) gradational. Heterogeneous. Lamprophyre dykelet near lower contact. Locally foliated. Trace pyrite.	1	0.1	15
290.5	295.0	UMLAMP Dike	green	FMG		Ultramafic dyke, upper portion similar to lamprophyre; several dyke pulses. Note: piece of core missing at 294.75m. No visible sulphides.			
295.0	299.5	Felsic Gneiss (G)	pink	FCG		FG(g). Includes minor ultramafic dykelet (296.45-296.75m). Moderate to strong potassic alteration. Trace up to 1% pyrite, localised higher concentrations.	1		5
299.5	300.2	UMLAMP Dike	grey	FMG		UMD. No visible sulphides.	0.1		
300.2	309.4	Felsic Gneiss (G)	grey	FCG		FG(g). Faulted and brecciated near the top of the unit down to 304.9m; rest of unit fairly homogeneous. Includes UM dykelets (303.55-303.75m and 304.05-304.55m). Potassic alteration moderate to strong. Up to 0.3% pyrite. *start of mineralisation envelope	0.1		3
309.4	310.9	Pegmatite	pink	CG		Pegmatite. Altered. Trace pyrite.	0		100
310.9	312.1	Felsic Gneiss (S)	grey	FG		FG(s) or other altered lithology, amphibole-rich. Trace pyrite.	0.2		35
312.1	314.1	Felsic Gneiss (G)	pink	FCG		FG(g). Trace up to 1% pyrite.	0.1		20

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
314.1	319.8	Garnet Biotite Felsic Gneiss	grey	FMG		Garnet biotite FG. Weakly to moderately foliated. Occasional slickenlines visible on fractured surfaces. Trace pyrite.	12	3	
319.8	323.2	Felsic Gneiss (G)	grey	FCG		FG(g). Foliated near upper contact. Total of 0.5% pyrite and pyrrhotite.	1	0.1	5
323.2	329.8	Felsic Gneiss (S)	grey	FCG		FG(s). Rare quartz eyes down to 326m. Very weakly foliated in upper half then becomes moderate. Up to 2% pyrite.	1		
329.8	334.9	Felsic Gneiss (G)	grey	FMG		FG(g). Locally weakly to moderately foliated. Up to 0.3% pyrite.	2		2
334.9	335.9	Diorite	grey	FMG		Foliated diorite, amphibole-rich, amphiboles define the foliation. 0.5% pyrite.	3		
335.9	336.9	Felsic Gneiss (S)	grey	FMG		FG(s). Irregular foliation. Biotite is disseminated throughout and also 4cm pod at 336.65m in quartz rich interval. Total 0.5% pyrite and pyrrhotite.	1		
336.9	338.0	Diorite	grey	FG		Diorite, different from the one just above; this one looks like a finer grained version of the QFP located downhole. Trace pyrite.	2		
338.0	338.6	Felsic Gneiss (S)	grey	FG		FG(s). Foliated although foliation is slightly variable. Trace pyrite.	1.5		
338.6	340.4	Pegmatite	pink	FCG		Pegmatite. Trace pyrite.	1	0.2	100
340.4	340.9	Garnet Biotite Felsic Gneiss	green	FMG		GBFG or altered AMP. Trace pyrite.	7	5	
340.9	342.3	Amphibolite	grey	FMG		Amphibolite with low amount of amphiboles. Foliated although foliation is variable. Trace pyrite.	2		
342.3	350.3	Felsic Gneiss (G)	grey	FCG		FG(g). Weakly to moderately foliated. 8% quartz veining, some pegmatitic. Up to 0.5% pyrite.	2	0.1	4
350.3	351.8	Garnet Biotite Felsic Gneiss	grey	FMG		GBFG. Upper portion is altered, 351-351.45 is recognizable GBFG. Foliated. 0.3% pyrite. Note: 351.45-351.8m is foliated diorite, amphibole-rich, 3% biotite. Trace pyrite.	5	4	
351.8	355.0	Felsic Gneiss (G)	grey	FCG		FG(g) with pegmatite 352.65-353m, abundant quartz veining (locally pegmatitic). Up to 0.5% pyrite and pyrrhotite plus 30cm interval with 2% pyrrhotite.	2		10
355.0	355.8	UMLAMP Dike	brown	FMG		Lamprophyre dyke. No visible sulphides.			
355.8	356.7	Quartz Vein	lt grey	FCG		White to dark grey massive quartz vein. Up to 3% pyrrhotite, trace pyrite. *Total of 12 pin pricks and 9 larger (up to 0.5mm) specks of VG separated in 2 clusters between 356.0-356.02m.	1		
356.7	357.8	UMLAMP Dike	dk grey	FG		Lamprophyre dyke. No visible sulphides.	0.2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
357.8	363.2	Quartz Vein	white	FCG		Massive quartz vein with minor ultramafic dykelets (2 13cm large between 358.15-358.6m and one 359.7-359.75m) and altered amphibolite between 361.35-361.6m. *1 speck of VG 0.5mm large at 357.9m, at 359.3m and at 361.8m.	0.2		
363.2	364.5	Quartz Feldspar Porphyry (QFP)	grey	FCG		QFP. Weakly to moderately foliated. No visible sulphides.	1.5		
364.5	365.0	Pegmatite	lt grey	FCG		Pegmatite. No visible sulphides. Note: ends at 364.95m.	1		100
365.0	368.8	Felsic Gneiss (G)	grey	FCG		FG(g). Quartz flooded. Up to 0.7% pyrite and 4% pyrrhotite. *4cm interval at 365.35m with 8 VG specks up to 0.5mm large plus 1 pin prick found in 6 isolated clusters.	2	0.1	
368.8	377.1	Felsic Gneiss (S)	grey	FMG		FG(s). Locally weakly foliated. Patchy alteration. Fault in interval 373.95-374.45m and 376.45-376.8m. Trace to close to 1% combined pyrite and pyrrhotite.	2		
377.1	378.0	UMLAMP Dike				UMD.			
378.0	378.5	Amphibolite	green	FG		Altered amphibolite. Total 1% pyrite and pyrrhotite.	0.5		
378.5	384.8	Felsic Gneiss (S)	grey	FMG		FG(s). Foliated. Trace pyrite and pyrrhotite.	1.5		7
384.8	394.2	Amphibolite	grey	FCG		Footwall amphibolite. Contains minor FG(s). Foliated. Trace pyrite and up to 0.5% pyrrhotite. Lamprophyre dykelet (irregular low angle lens 391.5-391.7m. Lamprophyre dyke 392.1-392.45m with no visible sulphides.	3	2	
394.2	397.8	UMLAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.			
397.8	399.0	Amphibolite	grey	FG		Footwall amphibolite. No visible sulphides.			

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 402	Dip of Hole At Collar -60	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 13/01/2015	Date Completed 18/01/2015	Date Logged 13/01/2015 to 18/01/2015	Logged By G. McFadden	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	4.5	Casing							
4.5	15.0	Diorite	grey	FMG	POR		10	0	0.5
15.0	17.0	Amphibolite	grey_green	FMG	VUG		3	0	0
17.0	21.9	Diorite	grey	FMG	POR		10	0	0
21.9	25.4	Diorite	grey_green	FMG			5	0	0
25.4	54.4	Felsic Gneiss (S)	grey	FMG			7.5	0	0.5
54.4	55.1	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR		20	0	0
55.1	57.7	Felsic Gneiss (S)	grey	FMG			5	0	0
57.7	59.3	Amphibolite	grey_green	MG			0.5	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
59.3	68.1	Diorite	grey	FMG	POR	Localized sections of felsic gneiss (S).	12.5	0	2
68.1	70.8	UM\LAMP Dike	black	FMG			5	0	0
70.8	73.9	Felsic Gneiss (S)	grey	FMG			10	0	0
73.9	77.3	Amphibole Felsic Gneiss	grey_green	FCG	POB	Unit composed of coarse grained amphibole porphyroblasts surrounded by medium grained biotite crystals within a fine grained felsic matrix.	10	0	0.5
77.3	78.5	UM\LAMP Dike	black	FMG			5	0	0
78.5	93.0	Felsic Gneiss (S)	grey	FMG		Localized sections with 5-10% coarse grained quartz crystals. 20 cm thick UM\LAMP dike at 79.8m.	7.5	0	1
93.0	98.5	UM\LAMP Dike	dk grey	FMG			5	0	0
98.5	109.7	Diorite	grey	FMG		Localized sections of felsic gneiss (S).	10	0	0.5
109.7	121.7	Felsic Gneiss (S)	grey	FMG		Localized sections of diorite.	10	0	1
121.7	125.4	Pegmatite	pink				2	0	98
125.4	127.4	Diorite	grey	MCG			10	0	2
127.4	130.2	Pegmatite	pink				3	0	98
130.2	133.5	Diorite	grey	MG			15	0	1
133.5	144.0	Amphibolite	grey_green	FMG	VUG	Folited amphibolite with 1-2% py-po mineralization. Minor quartz strigers throughout. Vuggy chlorite altered patches towards bottom of contact.	1	0	0.5
144.0	145.5	Felsic Gneiss (S)	grey	FMG	VUG	Localized 1-10cm sections of amphibolite. Localized sections of 2cm vugs.	10	0	0
145.5	147.5	Amphibolite	grey_green	FMG		10cm quartz vein at 146.9-147.0m.	0.5	0	0
147.5	154.2	Felsic Gneiss (S)	grey	FMG		Localized 1-3cm bands of amphibolite.	15	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
154.2	160.3	Felsic Gneiss (S)	grey	FMG		Localized sections with increased biotite and amphibole. Pegmatites intrude towards bottom of unit, up to 10cm wide.	10	0	1
160.3	162.7	Amphibolite	grey_green	FMG		5cm wide pegmatite right at top contact of unit. Hornblends and biotite moderately altered by chlorite with local areas up to 50%biotite. Potassium alteration down unit. Fault cuts right through unit around 162.8m. Lamprophyre dyke (5cm) at 161.2m.	30	0	2
162.7	166.2	Felsic Gneiss (S)	grey	FMG		Strong potassic alteration at top of unit. Biotite increases towards bottom of unit.	7	0	0
166.2	170.6	Diorite	grey	MCG			15	0	0
170.6	174.0	Felsic Gneiss (S)	grey	FMG		1% Stringers of strong-moderate qtz-potassic alteration.	7	0	0
174.0	176.1	Quartz Feldspar Porphyry (QFP)	grey_green	MCG		Quartz vein at 175m 2-3cm wide with local potassium altered quartz-carboonate stringers. At about 176m there is a 10cm long lamprophyre dyke with moderate epidote alteration along contact edges.	15	0	0
176.1	178.4	Felsic Gneiss (S)	grey	FMG			7	0	0
178.4	181.4	Amphibolite	grey_green	FMG		Potassic alteration following foliation locally. Amphiboles increase in rock down unit.	5	0	0
181.4	190.3	Felsic Gneiss (S)	grey	FMG	VUG	Amphibolite minor unit from 182.1 to 182.5m. 1-2%py disseminated throughout in tiny blebs. Locally vuggy patches of pegmatite (5cm) with associated pyrite.	13	0	0.1
190.3	194.3	Amphibolite	grey_green	FMG		2% qtz stringers throughout, not following foliation.	5	0	0
194.3	199.0	Felsic Gneiss (S)	grey	FMG		Towards top of unit there is lots of potassic and sericitic altered stringers nd veinlets or qtz-carb (mm thick). Localized areas of higher dissmeinated pyrite and pyrrhotite. Lamprophyre dyke about 5cm wide at 198.6m.	12	0	1
199.0	201.1	Amphibolite	grey_green	FMG			3	0	0
201.1	206.2	Felsic Gneiss (S)	grey	FMG		Local lamprophyre dykes less than 5cm wide at 202.7m and 203m.	10	0	2
206.2	206.9	Quartz Feldspar Porphyry (QFP)	dk grey	MCG	POR		17	0	4
206.9	215.5	Felsic Gneiss (S)	grey	FMG		Grain size slightly coarsens to the bottom of contact. Lamprophyre dyke at 209.3m (3cm wide). Alteration (potassic, sericite) increase down unit, but still weak-mod. Quartz Feldspar Porphyry at 213m (10cm wide).	7	0	1
215.5	216.2	UM\LAMP Dike	dk grey	VFG		Lamprophyre dyke with up to cm zenoliths. Chill margins have weak-mod sericite-reibekite? Alt.	0	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
216.2	241.2	Felsic Gneiss (S)		MCG		Coarse-medium grained felsic gneiss, grading to a fine-medium grained gneiss and then coarsens again down unit. Locally altered by qtz-carb stringers and possibly altered because of lamprophyre dyke? Lamprophyre dyke at 217.7m about 10cm wide. Minor unit that has more amphiboles in it (30%) at 229.5m to 230.1m. Sulphides increase down unit. Qtz eyes increase down unit.	10	0	0.5
241.2	246.5	Amphibolite	grey_green	FMG		Sections of felsic gneiss (S) at 242.7-243.0m and 244.3-244.7m. 10 cm thick section of diorite at 245.4m.	2	0	0
246.5	249.2	Diorite	grey_white	FMG	POR		15	0	0
249.2	250.5	Felsic Gneiss (S)	grey	FMG		Section of amphibolite at 249.2-249.6m.	7.5	0	0
250.5	251.5	UM\LAMP Dike	black	FG			1	0	0
251.5	253.0	Amphibolite	grey_green	MCG		Grades into garnet biotite felsic gneiss at 252.7-253.0m.	5	0.1	0
253.0	258.8	Felsic Gneiss (S)	grey	FMG			10	0	1
258.8	261.7	Felsic Gneiss (S)	grey	FMG			12.5	0	0
261.7	264.3	Felsic Gneiss (S)	grey_green	FMG		Intermixed sections of amphibolite.	10	0	0
264.3	265.6	Felsic Gneiss (S)	grey	FMG			10	0	0
265.6	266.4	Felsic Gneiss (S)	grey_green	FMG			15	0	0
266.4	267.8	Felsic Gneiss (S)	grey	FMG			10	0	10
267.8	268.4	Diorite	grey_white	FMG	POR		20	0	0
268.4	269.0	Felsic Gneiss (S)	grey	FMG			10	0	5
269.0	272.8	Amphibolite	green	FMG			0.5	0	0
272.8	276.0	Felsic Gneiss (S)	grey	FMG			10	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
276.0	278.4	Amphibolite	grey_green	FMG			0.5	0	0
278.4	281.6	Felsic Gneiss (S)	grey	FMG			10	0.25	2
281.6	282.6	Amphibole Felsic Gneiss	grey_green	FCG	POB		5	0	0
282.6	284.6	Felsic Gneiss (S)	grey	FMG			10	0	2
284.6	288.3	Garnet Biotite Felsic Gneiss	grey_black	FMG			30	0.75	2
288.3	290.3	Amphibolite	grey_green	FMG			2	1	0
290.3	291.7	Garnet Biotite Felsic Gneiss	grey_black	FMG		Localized sections of felsic gneiss (G).	30	1	0
291.7	294.2	Amphibolite	grey_green	FMG			0	1	0
294.2	294.9	Garnet Biotite Felsic Gneiss	grey_black	FMG			35	5	0
294.9	295.7	Felsic Gneiss (G)	grey	FMG			7.5	0	2
295.7	297.1	Felsic Gneiss (S)	grey	FMG			10	0	1
297.1	302.2	Felsic Gneiss (G)	pink	MG			1	0	5
302.2	303.5	Felsic Gneiss (S)	grey	FMG	BND		7.5	0.5	1
303.5	307.7	Felsic Gneiss (G)	grey	FMG			2.5	0	2
307.7	310.3	Garnet Biotite Felsic Gneiss	grey_black	FMG			35	2	1
310.3	311.7	Felsic Gneiss (G)	pink	MCG			3	0	0
311.7	313.1	Biotite Felsic Gneiss	grey_black	FMG		Section of diorite at 311.7-312.2m.	30	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
313.1	314.2	Felsic Gneiss (S)	grey	FMG			10	0	5
314.2	316.4	Garnet Biotite Felsic Gneiss	grey	FMG			30	1	15
316.4	318.7	Felsic Gneiss (S)	grey	FMG			10	0	1
318.7	319.8	Diorite	grey_green	FMG			1	0	0
319.8	326.3	Felsic Gneiss (G)	pink	MCG			2	0	1
326.3	327.3	Garnet Biotite Felsic Gneiss	grey_black	FMG			30	1	0
327.3	332.8	Felsic Gneiss (G)	pink	MCG			3	0	2
332.8	333.9	Felsic Gneiss (S)	grey	FMG			20	1	5
333.9	334.5	UMLAMP Dike	dk grey	FG			1	0	0
334.5	336.7	Garnet Biotite Felsic Gneiss	grey_black	FCG			40	1	15
336.7	337.2	Diorite	grey_white	FMG	POR		15	0	0
337.2	340.8	Garnet Biotite Felsic Gneiss	grey_black	FCG			35	3	0
340.8	342.7	Quartz Vein	white				1	0	98
342.7	347.8	Felsic Gneiss (S)	grey	FMG			15	0	2
347.8	348.7	Pegmatite	grey				2	0	98
348.7	351.4	Felsic Gneiss (S)	grey	FMG			12.5	0	1
351.4	357.8	Felsic Gneiss (S)	grey	FMG			10	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
357.8	358.5	Amphibolite	grey_green	FMG		Footwall amphibolite. Intermixed sections of garnet biotite felsic gneiss.	10	1	0
358.5	359.3	Quartz Vein	white				0	0	98
359.3	374.0	Amphibolite	grey_green	FCG		Footwall amphibolite. Localized sections of garnet biotite felsic gneiss.	5	2	0
374.0	375.1	UMLAMP Dike	dk grey	FG			1	0	0
375.1	380.2	Felsic Gneiss (S)	grey	FMG			10	0.5	1
380.2	402.0	Amphibolite	green_pink	FMG		Footwall amphibolite. EOH.	0.5	2	1

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 387	Dip of Hole At Collar -55	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 15/01/2015	Date Completed 18/01/2015	Date Logged 15/01/2015 to 18/01/2015	Logged By A. Nette	(m) degrees	(m) degrees	Property Name Borden	Easting 331615 Northing 5303313 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
3.6	4.9	Amphibolite	green	FMG		weakly foliated	2		
4.9	24.0	Diorite	grey	MG		Diorite wth variable texture and elevated pyrite; disseminated and locally massive. Local quartz vein from 21-21.1m. Local potassic alteration proximal to structures.	1		
24.0	27.4	UMLAMP Dike	grey_black	MCG	POR	Lamprophyre dike; porphyritic with sharp, chilled margins 30-40 dca.	2		
27.4	49.0	Diorite	grey	MG	POR	Diorite, semi-massive and locally foliated. Local pegmatite from 42.1-42.2m and 44.5-44.9 as well as potassic alteration proximal to structures.	2		2
49.0	51.2	Quartz Feldspar Porphyry (QFP)	grey_black	MCG	POR	Dominant qtz phenos with occasional biotite phenos. Local diorite from 50.4-51.2m	3		
51.2	55.5	Amphibolite	grey_green	FMG		Weakly foliated and disseminated/blebby pyrite throughout.	1		
55.5	73.0	Diorite	grey	MG	POR	Massive, occasional foliation, local potassic alteration along veinlets and fractures, local pegmatite from 64.4-64.6m, 66.5-66.6m and 70.6-70.7m.	2		2
73.0	79.0	Amphibole Felsic Gneiss	black	MG	POB	weakly foliated, 60-70% amphibole porphyroblasts	0.1		
79.0	87.0	Diorite	grey	MG	POR	Same as previous DIO.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
87.0	98.2	Felsic Gneiss (S)	grey	MCG	MD	Common to abundant quartz eyes throughout, common veinlets with mm-cm scale potassic alteration on halos.	0.3		
98.2	111.0	Diorite	grey	FMG	PHN	Local weak foliations. Possibly AmpFg from 105.10-105.40m; elongate amphiboles in a felsic groundmass.	0.2		
111.0	138.5	Felsic Gneiss (S)	grey	MCG	POR	Weak to moderately foliated, disseminated PY throughout. Local pegmatites from 116.50-117m, 119.60-120.20m, 129.40-129.70, 133.75-133.90m; commonly contain patchy potassic alteration. Gradational boundary from previous diorite unit.	2		4
138.5	139.5	UMLAMP Dike	green	FG	APHAN	Light to dark green UM dyke, sharp upper and lower contacts.	2		
139.5	142.4	Amphibolite	green	FMG		medium to dark green, moderate to well foliated amphibolite with common epidote.			
142.4	152.0	Felsic Gneiss (S)	grey	FMG	VUG	Occasional carbonate vugs and local qtz-carb veins with mm-cm scale biotite.	2.5		0.5
152.0	153.0	Pegmatite	red	VCG	PHN	Local pegmatite with pervasive potassic alteration.	0.5		90
153.0	154.6	Amphibolite	green_pink	FMG	CHL	Amphibolite with weak local potassic alteration along veinlets and fractures.	3		
154.6	162.3	Felsic Gneiss (S)	grey	FMG	PEG	weakly foliated felsic gniess with local intervals of pegmatite; 157-157.2m, 158.5-158.8m, and 160.4-160.5m. Trace disseminated pyrite.	3		5
162.3	164.6	Amphibolite	green	FG		Weakly foliated amphibolite with local interval of diorite from 162.20-164.20m. Local quartz vein but no mineralization associated. Trace disseminated pyrite.	1		
164.6	172.1	Diorite	grey	MCG	POR	Porphyritic diorite with local interval of weakly foliated amphibolite from 167.10-167.70m.	3		
172.1	177.7	Amphibolite	green	FG	BND	Amphibolite, weak-moderately foliated with occasional medium grains of biotite. Local interval of diorite from 173.80-174.80m.	3.5		
177.7	179.1	Quartz Feldspar Porphyry (QFP)	grey	MCG	POR	QFP with gradational contacts. Local pegmatite from 178.7-179.0m with weak potassic alteration.	5		20
179.1	226.3	Felsic Gneiss (S)	dk grey	FMG	BND	Weakly foliated felsic gniess with local lenses of more dioritic texture and composition. Local intervals of Amphibolite from 182.6-183m, 197.40-197.50m, and 198.8-199m; Increased Py and lesser Po mineralization local to amphibolite.	2		1
226.3	228.4	Amphibolite	green	FG	PHN	Short interval of amphibolite, alteration intensity becomes very weak compared to previous unit.	2		
228.4	241.8	Felsic Gneiss (S)	grey	FMG	POR	Weakly foliated felsic gniess with patchy moderate potassic and sericitic alteration.			
241.8	243.5	Amphibolite	green	FG	APHAN	Weakly foliated amphibolite with increasing Py/Po mineralization.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
243.5	244.8	Diorite	grey	FMG	PHN	Very weak foliation, and trace Py mineralization.	1		
244.8	250.1	Amphibolite	green	FG	BND	Moderately foliated amphibolite with increasing Py/Po mineralization, local mineralized veins with massive aggregates of Py/Po. Local interval of diorite from 246.20-246.80m. Patchy cream-purple alteration (possibly albite?).	1		
250.1	253.7	Felsic Gneiss (S)	grey	FMG	BND	Moderately foliated felsic gneiss, minor disseminated pyrite throughout.	3		
253.7	255.4	Pegmatite	pink	CG	POR	Mostly pegmatite with minor intercalated felsic gneiss and patchy potassic alteration.	2		
255.4	271.1	Felsic Gneiss (S)	grey	FMG	BND	Mostly felsic with intercalated minor pegmatites and amphibolites. Local diabase dyke from 259.90-260.65m. Banded amphibolites with associated Py/Po mineralization from 262-266m. Minor pegmatites with associated potassic alteration from 267-270m.	3		3
271.1	274.5	Amphibolite	green	FG	BND	Weak to moderately foliated amphibolite, very minor and local dioritic textures, common disseminated Py/Po mineralization increasing near vein margins.	1		
274.5	276.8	Pegmatite	grey	CG	PEG	Mostly pegmatite with minor intercallations of felsic gneiss.	2		
276.8	281.9	Felsic Gneiss (S)	grey	FMG	BND	Mostly felsic gneiss with local intervals of pegmatite from 278.50-279.10m, 281.60-281.90m and minor lenses throughout. Local amphibolite from 276.30-276.60m. Weak potassic alteration increasing near lower contact.	3		10
281.9	283.8	Diorite	red	FMG	POB	Highly strained diorite with pervasive potassic alteration throughout groundmass, common biotite and trace sericite.	5		
283.8	288.5	Felsic Gneiss (S)	grey	FMG	BND	weak-moderately foliated felsic gneiss with increasing silicification and weak local sericitic alteration proximal to veins and fractures.	5		
288.5	289.8	Diorite	red	FMG	BND	weak to moderately foliated diorite with weak pervasive potassic alteration, trace disseminated pyrite.	2		
289.8	294.5	Felsic Gneiss (S)	grey_green	FMG	POR	Weak to moderately foliated felsic gneiss with increased silicification. Local pegmatites from 290.10-290.70m with patchy epidote and potassic alteration.	2		10
294.5	298.2	Felsic Gneiss (G)	orange	MCG	PHN	Felsic gneiss with moderate and pervasive potassic alteration, common sillimanite and muskovite.	3		
298.2	300.6	Garnet Biotite Felsic Gneiss	grey_green	FG	POB	Moderately foliated garnet-biotite felsic gneiss, with patchy sericite alteration. Local FGG from 299.2-299.7m; same as previous lithology.	10	2	15
300.6	309.6	Felsic Gneiss (G)	orange	MCG	PHN	Similar to previous FGG. Local FGS interval from 305.8-306.2m with increased foliation intensity and biotite. Interfingered pegmatite intervals with patchy potassic alteration; 5-10cm scale.	2		5
309.6	312.7	Diorite	red	FMG	POR	Highly strained diorite, similar to previous diorite unit. Pervasive potassic alteration.	4		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
312.7	336.0	Felsic Gneiss (G)	orange	MCG	PHN	Felsic gniess with common sillimate/muskovite; weak to moderate and pervasive potassic alteration. Local ultramafic dyke from 313.60-314.10m with broad potassic alteration envelope approximately 1m on either side. Increasing biotite alteration starting at 329.5m and some rare garnets.	10		1
336.0	339.0	Quartz Vein	grey_green	FMG	BT	Grey to white large brecciated and strained quartz vein with abundant lithc fragments. Visible gold found from 337-338m; multiple flakes from pinpoint to 1mm.	5		
339.0	341.5	Garnet Biotite Felsic Gneiss	grey_black	FG	MD	Moderate to well foliated garnet-biotite felsic gniess with minor disseminated py/po mineralization. Abundant biotite with few garnets.	15	1	5
341.5	342.7	Quartz Vein	grey	FCG	PEG	Light to dark grey strained and brecciated quartz vein with common lithic fragments and minor pegmatic texture in the center. Common disseminated and sggregates of Py/Po along vein margins parallel to foliation.	10		5
342.7	356.0	Felsic Gneiss (G)	green_pink	FCG	BT	Variable textures throughout; faulted and fractured rock, well foliated FGS intervals and local pegmatite. Faulted and fractured rock from 345.50-348.50m with occasional graphitic slips and gouge up to cm scale; structure angles are variable. Short patchy	4	0.5	3
356.0	359.7	Quartz Vein	grey_white	FCG	BT	Large massive quartz vein with abundant lithic fragments throughout and local massive aggregate of PY/Po at 358.4m. Local pegmatic texture from 359-359.7m.	1		10
359.7	367.9	Garnet Biotite Felsic Gneiss	grey_black	FG	POR	Moderate to well foliated garnet-biotite gniess with abundant biotite and minor garnets. Rare pegmatite intervals up to 1-10cm. Minor disseminated Py/Po throughout.	20	3	5
367.9	378.4	Felsic Gneiss (S)	grey	FG	BND	Moderate to well foliated felsic gniess with common biotite along foliation, occasional quartz veins 1-10cm and margins parallel to foliation.	6		
378.4	387.0	Amphibolite	green	FG	POR	Massive amphibolite with patches of disseminated garnet; mm-cm scale. Patchy aggregates of Py/Po.	2	5	

Drilling Company	Core Size	Collar Elevation (m)	Bearing of Hole from true North	Total Depth (m)	Dip of Hole At	Location where core stored	Location of DDH (TWP, Lot, Con, LatLong)
Major	NQ	430	205	391	Collar -55	Chapleau Ont	Cochrane Township
Date Hole Started	Date Completed	Date Logged	Logged By	(m) degrees	(m) degrees	Property Name	Easting 331564
18/01/2015	21/01/2015	18/01/2015 to 21/01/2015	I. Therriault	(m) degrees	(m) degrees		Northing 5303338
Exploration Co., Owner or Optionee				(m) degrees	(m) degrees		Datum NAD83_Z17
Probe Mines Limited						Borden	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.2	Casing							
3.2	11.9	Diorite	grey	FMG	VUG	Diorite. Locally vuggy. 0.5% pyrite.	1.5		4
11.9	15.4	Amphibolite	green	FMG		Amphibolite. Includes minor diorite (13.35-13.75m). 0.75% pyrite, trace pyrrhotite.	1		1
15.4	16.1	Diorite	grey	FG		Diorite. Trace pyrite.	0.5		
16.1	19.7	Amphibolite	green	FMG		Amphibolite. Lower amphibole content/grading to locally amphibole-rich diorite 17.7-19.65m. Poorly foliated.	3		
19.7	27.0	Diorite	grey	FMG		Diorite. Massive to locally weakly foliated. Contains mm to cm-scale quartz rich intervals. 1% pyrite.	2		
27.0	29.7	Amphibolite	green	FG	VUG	Amphibolite. Homogeneous. Locally vuggy. 1% pyrite and 0.5% pyrrhotite.	1		
29.7	32.4	Diorite	grey	FG		Diorite. Massive to inconsistently foliated. Trace pyrite.	1.5		
32.4	34.3	Amphibolite	green	FG		Amphibolite. Minor vugs. Includes 4-6cm large minor diorite intervals. 1% pyrite.	2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
34.3	39.6	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	1.5		
39.6	40.8	Diorite	grey	FG		Altered diorite. Trace pyrite plus 5cm interval with 1%.	0.5		
40.8	41.9	UM\LAMP Dike	dk grey	FG		Lamprophyre dyke. No visible sulphides.	0.5		
41.9	43.8	Amphibolite	grey_green	FG		Amphibolite. Trace pyrite , 1% pyrrhotite.	3		
43.8	47.9	Quartz Feldspar Porphyry (QFP)	grey	FCG		QFP. Massive to weakly foliated. Trace pyrite.	4		
47.9	50.2	Diorite	grey	FG		Diorite, amphibole-rich. Minor amphibolite 50.1-50.45m plus cm-scale intervals. Up to 1% pyrite and 0.3% pyrrhotite.	3		
50.2	53.2	Amphibolite	green	FG		Amphibolite. Weakly foliated. 2% pyrite.	3		
53.2	71.9	Diorite	grey	FG	MELT	Diorite. Minor vugs. Pegmatite 55.7-56m. A few mm to cm-scale quartz-rich, coarser grained intervals, possibly melt textures. Locally up to 1% pyrite.	2		2
71.9	72.8	UM\LAMP Dike	brown	FMG		Lamprophyre dyke. Contains minor lens of altered diorite. No visible sulphides.	0.5		
72.8	74.2	Diorite	grey	FG		Altered diorite.	2		
74.2	80.7	Amphibole Felsic Gneiss	grey_green	FMG	POB	Amphibole FG but fine to medium grained and with strong fabric throughout. Trace pyrite.	15		
80.7	85.7	Diorite	grey	FMG	MELT	Foliated diorite to locally FG(s) looking. A few mm up to 2-3cm large quartz-rich slightly coarser grained intervals (melt textures?) 0.5% pyrite.	3		2
85.7	86.4	UM\LAMP Dike	green	FG		Ultramafic dyke. No visible sulphides.			
86.4	91.9	Felsic Gneiss (S)	grey	FG		FG(s). Weakly foliated. Up to 1% pyrite.	1.5		
91.9	107.5	Amphibole Felsic Gneiss	green	FCG	POB	Amphibole FG. Fabric not as strong as in uphole AMPG, but still present. Biotite rimming and replacing amphiboles. Interval with lesser amount of amphiboles (93.6-93.9m). Trace pyrite plus 0.5% in last 20cm.	12		
107.5	109.4	Felsic Gneiss (S)	grey	FG		FG(s). Weakly foliated. 2% pyrite.	0.3		
109.4	111.2	Amphibole Felsic Gneiss	green	FMG	POB	Amphibole FG with FG(s) between 109.7-110.05m. Trace up to 0.5% pyrite.	5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
111.2	125.0	Diorite	grey	FCG	VUG	Diorite. Very heterogeneous unit, locally more FG(s) looking, locally foliated. Locally vuggy. 0.3% pyrite.	1		3
125.0	129.3	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amphibole FG, more on the felsic side than the typical AMPG. Foliated. Biotite replacing amphiboles. 0.5% pyrite.	4		
129.3	132.1	Diorite	grey	FMG		Diorite. Similar to uphole diorite just above AMPG, heterogeneous. Minor vugs. 0.3% pyrite.	0.5		
132.1	133.0	Amphibolite	green	FG		Amphibolite. Foliated. Trace pyrite.	0.5		
133.0	141.9	Felsic Gneiss (S)	grey	FCG		FG(s). Amphibole-rich in upper portion. Larger unit, locally altered and locally foliated. Pegmatite in interval 138.3-141.9m. Trace up to 1% pyrite.	1.5		5
141.9	144.8	Amphibolite	green	FMG		Amphibolite or amphibole-rich, altered FG(s). Locally up to 3% pyrite.	3		
144.8	152.8	Felsic Gneiss (S)	grey	FG		FG(s). Minor vugs. Up to 1.5% pyrite, minor pyrrhotite in last 2.75m.	1.5		
152.8	153.5	Pegmatite	grey	FCG		Pegmatite, minor FG(s) with 0.3% pyrite.	1		90
153.5	154.0	Felsic Gneiss (S)	grey	FG		FG(s). 0.3% pyrite.	1		
154.0	156.2	Amphibolite	green	FMG		Amphibolite, likely altered ultramafic dyke. Amphiboles are being replaced by biotite, strong chlorite alteration of matrix (possibly other alteration minerals too). Trace pyrite.	35		
156.2	159.1	Amphibolite	green	FMG		Amphibolite with variable concentration of amphiboles. Includes 40cm altered ultramafic dyke at 157.9m (previous unit 153.95-156.15m). Trace pyrite.	2		
159.1	163.0	Felsic Gneiss (S)	grey	FCG	POR	FG(s) with up to 1.5cm large feldspars that are deformed with foliation. Trace pyrite.	1		
163.0	164.2	Amphibolite	green	FG		Amphibolite. Trace pyrrhotite.	0.5		
164.2	167.7	Diorite	grey	FMG		Diorite. Massive to very weakly foliated. No visible sulphides.	2		
167.7	169.8	Felsic Gneiss (S)	lt grey	FG		FG(s). Trace pyrite.	1		
169.8	171.0	Amphibolite	green	FG		Amphibolite. Trace pyrite.	0.2		
171.0	172.9	Felsic Gneiss (S)	lt grey	FMG		FG(s). Minor vugs. Trace pyrite.			5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
172.9	174.8	Amphibolite	green	FG		Amphibolite. Unit contains 9cm diorite near the lower contact (4cm of amphibolite after). 0.5% pyrite.	1		
174.8	185.3	UM\LAMP Dike	brown	FCG		Lamprophyre dyke. Includes 40cm lens of FG(s).	2		
185.3	185.9	Amphibolite	green	FG		Amphibolite. 0.75% pyrite.	1.5		
185.9	198.9	Felsic Gneiss (S)	grey	FMG		FG(s). Heterogeneous unit. Includes minor lamprophyre dykelet (194.65-195.05m) and diorite (197.4-197.7m). Trace up to 2% pyrite. Note: mismatched core pieces in a few locations between 186-192m, so measurements are not necessarily accurate.	1		2
198.9	204.1	Amphibolite	green	FG		Amphibolite. Quartz veining. Faulted, altered and locally brecciated between 201.4-202.75m. Locally up to 1% pyrite.	0.2		
204.1	205.2	Diorite	pink	FCG		Diorite. Weakly foliated. Trace pyrite.	0.5		
205.2	219.1	Felsic Gneiss (S)	grey	FG		FG(s). Trace up to 0.5% pyrite.	1		3
219.1	219.6	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. Altered. No visible sulphides.			
219.6	221.1	Felsic Gneiss (S)	grey	FG		FG(s). Trace pyrite.	1.5		5
221.1	225.2	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	2		
225.2	228.0	Amphibolite	grey_green	FMG		Amphibolite. Lamprophyre dykelet lens 225.4-225.65m. Trace pyrite.	5		2
228.0	228.5	Felsic Gneiss (S)	grey	FG		FG(s). No visible sulphides.	1		
228.5	229.0	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. Includes 15cm lens of FG(s). No visible sulphides.	0.5		
229.0	230.7	Felsic Gneiss (S)	grey	FG		FG(s). Trace pyrite.			
230.7	231.8	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.			
231.8	233.8	Felsic Gneiss (S)	grey	FG		FG(s). Trace pyrite.			
233.8	236.5	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. No visible sulphides.	0.5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
236.5	239.0	Felsic Gneiss (S)	grey	FCG		FG(s). Weakly foliated. 0.75% pyrite.	1		
239.0	241.6	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. Includes up to 4cm large subangular to subrounded white clasts that have inclusions in them, occur mainly in the lower 50cm of the unit. No visible sulphides.	1		
241.6	243.2	Felsic Gneiss (S)	grey	FG		FG(s). Minor cm-scale lamprophyre dykelet. Altered. 1% pyrite.	0.5		
243.2	246.0	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.			
246.0	248.5	Amphibolite	grey	FCG		Amphibolite or other altered unidentified lithology. Includes a lamprophyre lens between 248.35-247.85m. Up to 0.5% pyrite.	0.2		35
248.5	257.0	UM\LAMP Dike	dk grey	FCG		Ultramafic dyke; looks like more typical lamprophyre dyke near contacts but middle portion has large clasts and is much softer, dark green.	0.5		
257.0	268.9	Felsic Gneiss (S)	grey	FG		FG(s). Very heterogeneous unit. Localised amphibolite sections: 263.45-263.7m, 264.15-264.35m, 265-05-65.5m. Pegmatite and quartz-amphibole rich starting at 267.5m. Up to 0.5% pyrite; amphibole-rich sections have up to 1% pyrrhotite.	1.5		2
268.9	270.2	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. Trace pyrite.	0.5		
270.2	271.1	Diorite	grey_green	FMG		Foliated diorite. 0.3% pyrite.			
271.1	284.8	Felsic Gneiss (S)	grey	FCG		FG(s). Pegmatite mostly present between 275.6-278.8m. Locally diorite-looking. Includes low angle ultramafic dykelet 282-282.5m and amphibole felsic gneiss 279.55-279.75m and 283.65-284.2m. Up to 0.5% pyrrhotite in upper half and up to 1% pyrite in lower half.	2		12
284.8	285.5	Diorite	grey	FMG		Diorite. Massive to weakly foliated. 1% pyrite.			
285.5	286.0	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	1		
286.0	288.4	Diorite	grey	FMG		Diorite. 286.3-286.9m looks more like a FG(s) with 25cm pegmatite and 1% pyrite.	1.5		10
288.4	290.6	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke and minor FG(g) (288.75-289.15m and 289.4-289.5m; 0.5% pyrite).	0.3		
290.6	300.6	Felsic Gneiss (G)	pink	FCG		FG(g). Contains mm-scale up to 10cm large lamprophyre dykelets. GBFG 296.3-296.45m; possibly larger and also other interval but very altered so hard to tell. Brecciated in lower portion. Trace up to 0.75% pyrite.	3	0.1	1
300.6	301.7	UM\LAMP Dike	green	FG		Ultramafic dyke, light green colour. No visible sulphides.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
301.7	304.4	Garnet Biotite Felsic Gneiss	grey	FG		Garnet biotite FG, very altered. Contains pegmatite 302.0-302.6m. Up to 2% pyrite.	10	3	20
304.4	308.8	Diorite	grey	FG		Foliated, altered diorite. Foliation often wapping around quartz pods. Trace pyrite.			2
308.8	312.0	Felsic Gneiss (G)	pink	FG		FG(g) or other altered lithology. Top portion is brecciated. Trace pyrite. *start of mineralisation envelope.			
312.0	316.3	Garnet Biotite Felsic Gneiss	grey	FMG		GBFG. Biotite content is variable. Altered. 0.5% pyrite.	8	5	
316.3	316.9	Felsic Gneiss (G)	pink	FCG		FG(g). 10cm pegmatite at the end. Trace pyrite.		3	15
316.9	317.7	Garnet Biotite Felsic Gneiss	grey	FMG		GBFG. 0.75% pyrite.	8	3	
317.7	320.2	Felsic Gneiss (G)	grey	FMG		FG(g). Pegmatite lower 15cm with 3% pyrite and 1.5% pyrrhotite. Trace pyrite and pyrrhotite.	1.5		6
320.2	323.7	Garnet Biotite Felsic Gneiss	grey	FG		GBFG. Foliated. 2% pyrite, 0.5% pyrrhotite.	25	8	
323.7	324.8	Felsic Gneiss (G)	grey	FMG		FG(g). Massive to weakly foliated. 0.4% pyrite.	0.5		
324.8	325.5	Garnet Biotite Felsic Gneiss	grey	FMG		GBFG. Biotite content higher near upper and lower contacts. 0.6% pyrite and 1% pyrrhotite.	15	3	
325.5	327.1	Felsic Gneiss (S)	grey	FG		FG(s). Total 0.5% pyrite and pyrrhotite.	2		
327.1	330.4	Garnet Biotite Felsic Gneiss	grey	FMG		GBFG. Biotite contents varies between 10-20%. Up to 1% pyrite and up to 1.5% pyrrhotite.	12		5
330.4	346.7	Felsic Gneiss (G)	grey	FCG		FG(g). Fairly homogeneous. Contains mm-scale up to a few cm large lamprophyre dykelets plus a larger one 337.4-337.95m. Massive to locally foliated. Trace pyrite and pyrrhotite, coarser in pegmatites.	1.5		12
346.7	348.0	Pegmatite	grey	FCG		Pegmatite with minor cm-scale lamprophyre dykelets. 1.5% pyrite.	1		
348.0	349.9	UM\LAMP Dike	dk grey	FG		Lamprophyre dyke. No visible sulphides.	1.5		
349.9	356.7	Pegmatite	lt grey	FCG		Pegmatite. 15cm GBFG at 355.6m. Biotite content variable. Up to 1.5% pyrite and up to 1% pyrrhotite. *1 speck of VG at 351.19m, 1 speck of VG at 351.85m and cluster of 8 specks less than 0.5mm large at 352.06m.	4		95
356.7	360.2	Garnet Biotite Felsic Gneiss	grey	FMG		GBFG. 0.5% pyrite.	10	3	2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
360.2	379.3	Felsic Gneiss (S)	grey	FG		FG(s). Pegmatitic intervals are cm-scale up to 12cm large, scattered throughout the unit. Trace pyrite and pyrrhotite plus 10cm interval with 3% pyrrhotite.	1.5	0.1	5
379.3	390.6	Amphibolite	grey	FMG		Footwall amphibolite. Locally altered. 0.5% pyrrhotite. EOH=390.6m.	2	4	

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 375	Dip of Hole At Collar -55	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 16/01/2015	Date Completed 19/01/2015	Date Logged 16/01/2015 to 19/01/2015	Logged By J. Klarnar	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.0	Casing							
3.0	16.1	Diorite	grey	MCG		Trace potassic altered stringers. Slightly foliated. Sulphides increase down unit. Amphiboles increase down unit and are in lenses within foliation.	5	0	0
16.1	17.2	Amphibolite	grey_green	FMG	VUG	Small mm-cm wide vuggy patches with associated py and po.	2	0	0
17.2	20.4	Diorite	grey_green	MG		Slightly foliated, not as porphyritic as above diorite.	5	0	0
20.4	21.2	Pegmatite	grey_white	VCG	PEG	Biotite altering to chlorite weakly. Associated blebs of py along fractures. Minor kspar and sericite alt (weak-mod).	25	0	
21.2	39.6	Diorite	grey	MCG	POR	Porphyritic to slightly more foliated down unit. Qtz Vein 5cm wide at 35.8m with associated py blebs. Tr potassic altered qtz-carb stringers. Local coarser patches roughly around 31.5-34.0m	2	0	0
39.6	41.4	Felsic Gneiss (S)	grey	FMG		Slightly more foliated than above diorite.	3	0	0
41.4	46.8	Felsic Gneiss (S)	grey	FMG		Mixed amphibolite/felsic gneiss unit. Trace epidote altered stringers locally. Amphibolite about 65% amphiboles. 10cm wide qtz vein at bottom of contact with associated pyrite.	5	0	0
46.8	47.9	Diorite	grey	FMG		Slightly foliated. Not as coarse as previous units.	2	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
47.9	48.7	Amphibolite	grey_green	FMG			2	0	0
48.7	53.0	Diorite	grey	FG		Diorite with minor felsic gneiss (s) lenses. Grades to finer grade with less visible porphyroclasts down unit. Chill margin at lower contact due to dyke with minor hematite? Or potassic alteration.	3	0	0
53.0	55.8	UMLAMP Dike	grey_green	FG		Fg matrix with up to cm sized xenoliths. Chill margins have altered host rock at both ends.	3	0	0
55.8	60.8	Diorite	grey	FMG		Localized up to 5cm pegmatites in unit. Slightly foliated, almost a felsic gneiss? Slightly porphyritic. Trace stringers of qtz-carb.	5	0	8
60.8	61.9	Quartz Vein	grey_white	VCG		Qtz vein with chlorite and hematite? altered biotite in fractures (from wall rock). Bull white. Less than 1% pyrite in blebs.	2	0	0
61.9	66.6	Diorite	grey	FMG		Slightly foliated. Very minor porphyroclasts. Almost grades into a felsic gneiss (s).	2	0	0
66.6	78.7	Felsic Gneiss (S)	grey	FMG		Biotite grades to about 7% down unit. Trace potassic stringers throughout. Biotite Schist from 71.5m to 71.8m, crenulated and weakly chl altered.	3	0	0.5
78.7	79.8	Felsic Gneiss (S)	white	MCG		Weak to moderately altered rock (carbonate). Coarse-med grained. Looks like altered felsic gneiss to diorite? Trace garnets mm sized locally.	8	0.1	0
79.8	102.6	Felsic Gneiss (S)	grey	FCG		Unit looks like a felsic gneiss (s) because of foliation and texture. Coarser grained in sections which makes it look like diorite but still quite foliated and no sharp contact. Local stringers (1%) with weak potassic-sericite alt. Qtz eyes locally in pat	7	0	0.1
102.6	107.8	Diorite	grey	FCG		Diorite? Foliated and looks like fg(s) but very porphyritic.	4	0	0
107.8	125.2	Felsic Gneiss (S)	grey	FCG		Felsic gneiss (sedimentary) with moderate foliation but the texture of a porphyritic diorite?. Intermixing of the two units possibly. Qtz eyes predominately throughout. Locally weak-mod kspar alteration associated with 3% qtz-carb stringers.	7	0	0.5
125.2	128.0	Amphibolite	grey_green	FG		Amphibolite with 20 cm lamprophyre dyke cross-cutting lithology at 127.1m. Area above lamprophyre is chilled and looks silicified.	1	0	0
128.0	131.9	Felsic Gneiss (S)	grey	FMG		Local pegmatites, 2% qtz stringers with weak potassic alt. Trace reibekite closer to lower contact. Lower contact chilled.	3	0	5
131.9	134.7	Amphibolite	grey_green	FMG		40cm intrusive (pegmatite?) with granitic texture at 134.0-134.4m. Locally vuggy with about 3% epidote alteration associated.	1	0	5
134.7	138.4	UMLAMP Dike	dk grey	FCG		Up to cm sized lapilli/xenocrysts? Brecciated closer to bottom of unit. Weakly chlorite altered along fractures and qtz stringers.	1	0	0
138.4	144.7	Amphibolite	grey_green	FMG	VUG	Locally vuggy with associated pyrite and epidote-carb alteration. 1% stringers of qtz-carb. Epidote ~3%.	2	0	0.5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
144.7	149.7	Felsic Gneiss (S)	grey	FCG		Foliated felsic gneiss with more units that have more amphiboles in them. Pegmatites are at 145.2-145.3m (20cm wide), 146.7-147.0m (30cm), 147.5-147.7m (20cm). Grades to a coarser more felsic unit at lower contact.	10	0	20
149.7	154.2	Amphibolite	grey_green	FCG	POC	Amphibolite with local lenses of more ultramafic amphibolite (biotite porphyroblasts, weak-mod chlorite altered). Ultramafic units from 150.0-150.7m, 153.2-154.0m. Tr stringers of qtz-carb. Local potassic alteration following foliation.	6	0	2
154.2	157.5	Felsic Gneiss (S)	grey	FMG		Unit has more amphiboles down unit and local patches of qtz eyes. Trace stringers of associated potassic alteration down unit.	3	0	0.5
157.5	161.4	Amphibolite	grey_green	FMG		Minor units of felsic gneiss (s) following foliation that are med-coarse grained. 65% amph. Tr qtz-carbonate stringers.	2	0	0
161.4	163.4	Diorite	grey	FCG		Diorite with foliation. Possibly just a coarser grained felsic gneiss (s)? Feldspar phenocrysts (mm-cm) throughout.	4	0	0
163.4	166.9	Felsic Gneiss (S)	grey	FMG		Very minor lenses of amphibolite-rich rock. Down unit towards diorite contact there is weak to mod potassic alteration.	2	0	0
166.9	169.0	Quartz Feldspar Porphyry (QFP)	grey_white	FG		Porphyritic, biotite in rock has a green-blue tinge. 30cm bull white quartz vein from 168.45-168.8m. Very weak potassic alteration.	15	0	0
169.0	169.4	Amphibolite	grey_green	FMG		Amphibolite has a fair bit of biotite in it and ~65%amph.	10	0	0
169.4	169.9	Quartz Feldspar Porphyry (QFP)	grey_white	FCG			10	0	0
169.9	171.0	Felsic Gneiss (S)	grey	FMG		5cm pegmatite at bottom of unit. 1% qtz stringers with associated potasssic alteration.	5	0	3
171.0	172.8	Amphibolite	grey_green	FG		Biotite-rich amphibolite with a weak-moderate foliation. Almost schisty fabric and a very weak poikilitic? (egg carton) texture like an ultramafic.	20	0	1
172.8	177.7	Felsic Gneiss (S)	grey	FMG		Nice mm euhedral pyrite throughout. Tiny mm sized vuggs. Some very small areas of more amphibole rich rock. Trace stringers cross-cutting lithology.	6	0	0
177.7	186.2	Felsic Gneiss (S)	grey	FCG		Almost looks like a diorite, but foliated. 1% qtz stringers with potassic alteration throughout. Nice cm sized quartz eyes that get smaller down unit.	5	0	0
186.2	188.5	Amphibolite	grey_green	FMG		Local patches of epidote alteration. 1% qtz stringers cross-cutting foliation and associated to epidote alteration.	1	0	1
188.5	188.8	Felsic Gneiss (S)	grey	FMG		Trace reibekite at lower contact towards lamprophyre dyke.	2	0	0
188.8	191.0	UMLAMP Dike	dk grey	FG		No major alterations around chill margins, but small dyke.	0.1	0	0
191.0	192.2	Felsic Gneiss (S)	grey	FMG			2	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
192.2	192.5	UM\LAMP Dike	grey_green	FCG		Poikilitic texture on fractured surface. Looks slightly serpentized. Up to 0.5cm xenoliths/lappilli.	1	0	0
192.5	209.9	Felsic Gneiss (S)	grey	FMG		Very few qtz eyes, not too overly porphyritic. A mix of felsic gneiss and minor bands of amphibolite or amphibole rich layers in gneiss. Trace qtz veining with associated sericite (mod) and epidote (weak) alteration.	2.5	0	0.5
209.9	224.4	Felsic Gneiss (S)	grey	FCG		Felsic gneiss (s) with more of a coarser grained texture. Locally sericite and potassic altered (due to veining).	3	0	1
224.4	238.3	Felsic Gneiss (S)	grey	FMG		Finer grained unit than the felsic gneiss above with local bull white qtz veins (up to 3cm) and pegmatites of same size. More amphiboles in cm lenses following foliation. One major amphibolite unit from 227.5-227.75m and associated sericite alteration at both ends. Local patches of potassic alteration (weak-mod). Lower contact sericite altered and bleached from dyke. Trace qtz eyes.	5	0	2
238.3	239.0	UM\LAMP Dike	dk grey	VFG		1% qtz-carb stringers throughout following and cross-cutting foliation.	0.1	0	0
239.0	240.5	Felsic Gneiss (S)	grey	FMG		Felsic gneiss with local patches of potassic alteration. Qtz eyes throughout (cm)	4	0	0
240.5	242.4	Amphibolite	grey_green	FMG		Amphibolite with a minor unit of foliated diorite at 240.8-241.3m. Minor epidote/chlorite alteration along fractures.	2	0	0
242.4	243.2	Felsic Gneiss (S)	grey	FMG		Amphibole layers present ~30%amph.	7	0	0
243.2	245.0	Diorite	grey	FCG		mm sized phenocrysts of feldspar.	8	0	0
245.0	248.5	Amphibolite	grey_green	FMG		Garnets (mm) are found at the lower contact starting at 247.9 -248.45m. Within that pocket there is about 1-2% garnets. Pyrrhotite associated with unit.	1	0.5	0
248.5	250.1	Felsic Gneiss (S)	grey	FMG		Not well defined qtz eyes, but throughout hole, increase down unit. Minor lenses of more amphibole-rich rock. And associated po. Trace qtz stringers.	12	0	0.1
250.1	252.6	Amphibolite	grey_green	FG		About a 5-cm Qtz vein intruding at 250.6-250.7m with 5cm associated sericitic-potassic-chl-epid alteration at contact. Associated stockwerk po-py veining (only cm) at lower contact, at upper contact associated po blebs.	3	0	0
252.6	259.6	Felsic Gneiss (S)	grey	FCG		Local amphibolite in unit from 254.2-254.7m with 2%po and 3%biotite. Sulphides increase down unit.	3	0	0
259.6	264.2	Amphibolite	grey_green	FMG		tr qtz stringers cross-cutting foliation. Locally weakly chl altered.	1.5	0	0
264.2	267.6	Felsic Gneiss (S)	grey	FMG		Unit loses more amphibole-rich layers down unit. Trace garnets (1mm) locally. Lower contact slightly more ser-potassic altered due to qtz stringers.	5	0.1	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
267.6	269.3	Diorite	grey	FCG		Nicely defined feldspar phenocrysts. Minor epidote/chl alteration following foliation.	3	0	0
269.3	271.3	Amphibolite	grey_green	FMG		Local pegmatite/qtz vein from 269.7-270.0m.	1	0	20
271.3	278.2	Felsic Gneiss (S)	grey	FCG		Grades to a finer grained gneiss down unit, starts of a bit coarser grained. Pegmatite found in unit from 274.1-274.9m. Trace stringers of qtz with associated sericite alteration around 276m.	7	0	15
278.2	278.5	Amphibolite	grey_green	FMG		Amphibolite almost grades into the Amphibolite Felsic Gneiss (amphibole porphoroblasts with biotite rims).	3	0	0
278.5	282.4	Amphibole Felsic Gneiss	green_pink	FCG	POR	Amphibolite Felsic Gneiss with up to cm sized amphibole porphyroblasts with chlorite alteration and biotite rims. Matrix is potassium altered. Very local reibekite in contact zones with felsic gneiss units throughout.	30	0	1
282.4	285.9	Felsic Gneiss (S)	grey	FMG		Intermixed pegmatitic and fg(s) unit. Many pegmatitic veins throughout with associated weak sericite alteration. Foliation around pegmatites increases. Pegmatites with increased biotite are at: 282.4-282.5m, 282.8-282.9m, 283.1-283.2m .	3	0	35
285.9	293.1	Felsic Gneiss (S)	grey	FCG		Local pegmatites with foliation gneiss around contacts (possibly at the nose of folds?). Minor bands of diorite with weak potassic alteration Main one at 290.0-290.4m. Minor muscovite throughout. Increases slightly towards lower contact.	6	0	8
293.1	296.3	Diorite	dk grey	FCG	POR	Slightly potassic altered (seen in the feldspars). Locally sericite alteration in the foliation or qtz stringers following foliation.	12	0	0
296.3	299.7	Felsic Gneiss (G)	beige	FCG		Very local pegmatites (less than 4cm). Muscovite and sillimanite present in rock. Muscovite up to cm clusters elongated in foliation. Grades into a coarser grade down unit. Trace garnets at beginning of unit. Grades to a more potassic-ser alteration down unit.	2	0.1	2
299.7	300.2	Felsic Gneiss (S)	grey	FMG		Pegmatite (10cm) right in middle of unit with associated epidote and chl alteration. Vuggy around pegmatite with associated blebs of py.	10	0	30
300.2	306.2	Felsic Gneiss (G)	beige	FCG		Muscovite throughout unit in cm blebs. Also local clusters of mm sized sillimanite mostly following foliation, replacing muscovite. Sericite-potassic alteration weakens down unit. Local lenses of chlorite/epidote?	0.5	0	0
306.2	306.7	Diorite	dk grey	FCG		Weakly potassic altered throughout unit, foliation is moderate, not as defined phenocrysts. 1 0.5cm stringer of carb-qtz veining at about 302.5m with associated ser-potassic alt.	12	0	0
306.7	308.2	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (granite) with a minor unit of Garnet Biotite Felsic Gneiss at bottom contact of unit at 307.8-308.2m (with 1mm garnets, moderate foliation, associated py+po). Muscovite cm sized throughout with minor sillimanite replacement.	1	0	0
308.2	309.8	Diorite	grey_white	FCG		Local bands of potassic alteration and in feldspar phenocrysts. Local vuggs with associated epidote+carbonate at upper contact and lower contact. Phenocrysts are more defined down unit.	8	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
309.8	311.9	Felsic Gneiss (S)	grey	FCG			8	0	0.1
311.9	312.4	Diorite	green_pink	MG		Amphibole Diorite. Moderate foliation in diorite. Moderate potassic alteration in strained out feldspars in matrix. Upper and lower contacts are sericite altered.	0.1	0	0
312.4	314.7	Felsic Gneiss (S)	grey_white	FMG		Felsic gneiss (sed) with a qtz vein/pegmatite intruding from 313.2-313.9m that has associated pyrite+pyrrhotite as well as pods of weak chlorite-sericite alteration in pegmatite. There is a smaller vein of the same pegmatite/qtz vein at 312.75-312.85m.	5	0	50
314.7	315.3	Diorite	dk grey	FMG		Amphibole Diorite. Very strained foliation in diorite. More strained than above diorite. Lower contact has bands of qtz-carbonate and associated ser-chl alteration.	1.5	0	0
315.3	316.2	Felsic Gneiss (S)	grey	FMG		Local bands of pyrite and pyrrhotite following foliation. Unit almost grades to a felsic gneiss (granite). Muscovite present,	3	0.1	0
316.2	319.9	Felsic Gneiss (G)	grey	FMG		Localized bands of garnets (1mm in size). Pegmatitic quartz vein with associated pyrite biotite and chlorite in the selvages from 318.5-318.7m. Very local bands of potassic alteration. Unit otherwise not too altered.	2	0.5	0
319.9	331.6	Felsic Gneiss (G)	beige	FCG		Foliation increases down unit. Most of lithology is potassic altered along with weak to moderate sericite alteration. Local clusters of muscovite up to cm's big with very local sillimanite. Very small (1-2mm) garnets locally. Brecciated units around 320.0	0.5	0.1	1
331.6	335.1	Garnet Biotite Felsic Gneiss	grey_green	FCG		Garnet Biotite Felsic Gneiss. Garnets are more coherent down unit, near top they are altered/replaced. There is a massive sulphide unit of mainly pyrite from 332.4-333m. Pegmatite and brecciated at 333-333.5m. Reibekite interbedded in foliation.	8	1.5	15
335.1	341.0	Pegmatite	grey_white	VCG	POR	Pegmatite with minor units of garnet biotite felsic gneiss (335.6-336.0m) with less sericite alteration than previous unit and diorite (340.35-340.65m) that is very foliated and phenocrysts aren't as defined. Pegmatite has local clusters of albite/kspar? Getting coarser down unit. Green feldspars throughout.	15	0.1	80
341.0	342.4	Diorite	grey_green	FCG	VUG	Feldspar phenocrysts are being altered to chl/epidote. Vuggy locally.	5	0	1
342.4	343.7	Pegmatite	green_pink	FCG		Slightly interbedded with felsic gneiss (s). Feldspars are being weak-moderately sericite altered. Minor pegmatites at 343.9-344.2m, and at 345.1-345.3m.	10	0	85
343.7	345.3	Felsic Gneiss (S)	grey	FG		Felsic gneiss (s) with a prominent abundance of reibekite at upper contact. Silicified.	3	0	15
345.3	346.2	UM\LAMP Dike	dk grey	FCG		Margins are chilled. More prominent chill margin at upper contact. Xenoliths are mm sized.	4	0	0
346.2	352.0	Diorite	grey_white	FCG	POR	mm sized phenocrysts, locally vuggy with epidote/chl alt. Weakly foliated. Minor fg(s) unit at top contact from 346.2-346.45m.	3	0	0
352.0	360.7	Felsic Gneiss (S)	grey	FCG		Felsic gneiss with minor quartz vein/pegmatite at 353.4-353.65m. Unit coarsens down hole. Locally sericite altered, very trace qtz-carb stringers.	12	0	3

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
360.7	367.2	Amphibolite	grey_green	FMG		Footwall Amphibolite. Local clusters of garnets (up to 1cm big). Pyrrhotite in wispy disseminated layers following foliation. Local chlorite alteration.	30	5	2
367.2	375.0	Felsic Gneiss (S)	grey_green	FMG		Interbedded felsic gneiss (s), footwall amphibolite, and minor diorite lenses. Majority is felsic gneiss. Garnets in clusters throughout. Locally chl altered. Garnets up to cm in size. Pyrrhotite throughout in local clusters and wisps.	3	1.5	2

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 426	Dip of Hole At Collar -59	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 16/01/2015	Date Completed 20/01/2015	Date Logged 16/01/2015 to 20/01/2015	Logged By N. Lintner	(m) degrees	(m) degrees	Property Name Borden	Easting 331787 Northing 5303326 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.3	Casing							
2.3	23.0	Diorite	grey	FCG	POR	Biotite content increases to 10% between 21.4-22.1m.	5	0	0
23.0	32.0	Diorite	grey	FCG	POR	Similar to previous unit but more biotite content.	10		1
32.0	33.0	Quartz Vein	white	FG			0	0	0
33.0	66.7	Diorite	grey	FCG	POR	UM/Lamp dyke at 55.5-55.8m.	15	0	1
66.7	94.1	Diorite	dk grey	FMG	POR	Quartz vein at 86.2-86.6m.	20	0	0
94.1	114.4	Diorite	grey	FMG		Similar to previous unit but dioritic texture is less well defined and finer grained. Loses high biotite content.	5	0	1
114.4	116.9	Diorite	dk grey	FMG	POR	Contacts are sharp but generally irregular.	20	0	0
116.9	118.0	Diorite	grey	FMG	POR		5	0	2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
118.0	120.6	Diorite	dk grey	FMG	POR	Contacts are sharp but irregular.	20	0	0
120.6	129.2	Diorite	grey	FMG	POR	Biotite rich section (20%) at 123.3-123.7m and 123.9-124.0m.	5	0	0
129.2	130.7	Quartz Feldspar Porphyry (QFP)	dk grey	FCG	POR		25	0	0
130.7	132.7	Felsic Gneiss (S)	dk grey	FG			10	0	0
132.7	133.7	UM\LAMP Dike	dk grey	FG		Non-magnetic.	2	0	0
133.7	142.6	Felsic Gneiss (S)	grey	FMG		Unit is very blocky and has several rubble sections.	5	0	1
142.6	152.8	Amphibole Felsic Gneiss	grey_green	FCG	POB	Coarse grained hornblende porphyroblasts rimmed by biotite in a fine grained felsic matrix.	20	0	0
152.8	164.7	Diorite	grey	FCG	POR	Pegmatite at 155.2-155.5	10	0	2
164.7	174.6	Felsic Gneiss (S)	grey	FMG		Localized dioritic texture. 3-5% coarse grained quartz eyes.	3	0	1
174.6	189.1	Amphibole Felsic Gneiss	grey_green	FCG	POB	Coarse grained hornblende porphyroblasts, rimmed by medium grained biotite, in a fine grained felsic matrix. Pegmatite at 179.9-180.2m. Unit loses porphyroblasts between 184.9-185.1m (fault?). Unit becomes finer grained after 188.6m.	25	0	2
189.1	190.9	Felsic Gneiss (S)	grey	FMG		Localized dioritic texture, 2-3% medium grained quartz eyes.	7	0	1
190.9	192.4	Amphibolite	green	FG			10	0	5
192.4	199.9	Felsic Gneiss (S)	grey	FMG		Localized dioritic texture. Localized hornblende near lower contact. Lower contact is in rubble.	4	0	1
199.9	202.4	Amphibolite	green	FG			15	0	1
202.4	204.0	Amphibolite	green	FMG	POB	30% fine to medium grained hornblende porphyroblasts.	15	0	0
204.0	206.7	Amphibolite	green	FMG			15	0	0
206.7	212.6	Felsic Gneiss (S)	grey	FMG		Localized, thin sections of dioritic texture.	7	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
212.6	214.2	Diorite	grey	FMG	POR		7	0	0
214.2	216.5	Felsic Gneiss (S)	grey_green	FG		Intermixed, alternating amphibole rich bands on a 3-5cm scale.	10	0	0
216.5	225.4	Felsic Gneiss (S)	grey	FMG		Diorite at 217.3-217.7m. Amphibolite at 218.1-218.3m. Quartz vein at 222.2-223.3m Unit appears more felsic then other Felsic Gneiss (S) units (partial melt?).	12	0	2
225.4	234.0	Felsic Gneiss (S)	grey	FG			10	0	1
234.0	246.7	Felsic Gneiss (S)	grey	FMG		Appears more felsic then the previous unit. QFP at 236.4-236.6m and 237.0-237.5m. Pegmatite at 238.5-239.1m. Amphibolite at 240.1-240.2m, 240.9-241.1m, 242.9-243.4, and 243.8-244.0m. Diorite at 241.9-242.5 and 246.0-246.7m.	5	0	3
246.7	248.7	Amphibolite	green	FG		Felsic gneiss (S) at 247.4-247.6m.	10	0	0
248.7	255.0	Felsic Gneiss (S)	grey	FG		Amphibolite at 251.8-252.3m and 253.4-253.6m.	7	0	2
255.0	259.3	Amphibolite	green	MG		Ultramafic Amphibolite at 255.7-257.2m. Biotite content increases to 30%	15	0	0
259.3	262.6	Felsic Gneiss (S)	grey	FG		Heavily sericite and potassic alteration. Localized sections of diorite. UM/Lamp dyke at 260.6-261.0m.	3	0	0
262.6	263.5	Amphibolite	green	FG			5	0	10
263.5	274.5	Felsic Gneiss (S)	beige	FG		Intense sericite and potassic alteration. QFP at 269.0-269.4m and 269.9-270.1. UM/Lamp dyke at 269.3-269.7m. Amphibolite at 264.6-265.0m. Foliation has been destroyed.	2	0	3
274.5	279.5	UM\LAMP Dike	dk grey	FG		Contacts are sharp but irregular.	5	0	0
279.5	281.3	Felsic Gneiss (S)	grey	FG		Moderately altered. 1% coarse grained quartz eyes.	2	0	0
281.3	283.8	Amphibolite	green	FG			15		0.5
283.8	290.3	Felsic Gneiss (S)	grey	FCG		1-3% coarse grained quartz eyes. Amphibolite at 288.4-288.7m.	3	0	1
290.3	302.2	Felsic Gneiss (S)	grey	FMG		Localized dioritic sections. Heavily potassic altered sections. Amphibolite ate 296.9-297.3m and 297.8-298.1m.	5	0	2
302.2	305.1	Diorite	grey	FCG	POR	Quartz vein at 307.7-307.8m.	3	0	3

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
305.1	306.9	Felsic Gneiss (S)	grey	FCG	POB	2-3% coarse grained quartz eyes. Amphibolite at 306.8-306.9m.	3	0	1
306.9	311.0	Felsic Gneiss (S)	grey	FMG		Amphibolite at 308.5-308.6m and 309.2-309.4m.	5	0	1
311.0	314.3	Felsic Gneiss (S)	grey	FG		Localized, alternating amphibole rich bands with hornblende concentrations up to 40%. The Felsic Gneiss (S) sections are similar to the previous unit but finer grained and more strongly foliated.	5	0	2
314.3	315.7	Amphibolite	green	FG		Unit is finer grained and darker then previous amphibolites.	5	0	1
315.7	320.1	Felsic Gneiss (S)	grey	FMG		Unit has sections that appear to have some weak melt textures resulting in a weak porphyritic appearance. Occurs near the pegmatite units. Amphibolite at 316.4-316.7m. Pegmatite at 319.4-319.5m.	4	0	5
320.1	323.1	Amphibolite	green	FG			7	0	0.5
323.1	325.7	Felsic Gneiss (S)	grey	FMG		Pegmatite at 324.6-325.3m.	7	0	30
325.7	326.7	Pegmatite	pink	CG			0.5	0	
326.7	328.8	Amphibolite	green	FG			2	0	
328.8	332.1	Felsic Gneiss (S)	grey	FMG		Quartz vein at 330.5-330.8m.	10	0	0
332.1	333.1	Amphibolite	green	FMG			15	0	0
333.1	334.2	Felsic Gneiss (S)	grey	FMG		Pegmatite at 333.6-333.7m and 334.1-334.2m. Localized thin (<2cm) bands of amphibolite.	12	0	15
334.2	335.3	Amphibole Felsic Gneiss	green	FCG	POB	15% coarse grained hornblende porphyroblasts in a fine grained felsic matrix. Prophyroblasts are stretched out defining foliation.	15	0	0
335.3	337.6	Felsic Gneiss (S)	grey	FMG		Becomes diorite after 337.0m. Pegmatite at 335.4-335.6m and 336.1-336.3m.	15	0	5
337.6	339.2	Garnet Biotite Felsic Gneiss	green_pink	FCG			30	2	0
339.2	351.2	Felsic Gneiss (G)	pink	FCG			1	0	1
351.2	356.3	Garnet Biotite Felsic Gneiss	green_pink	FMG		Pegmatite at 252.2-352.6m.	30	3	2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
356.3	357.7	Felsic Gneiss (G)	lt grey	FMG		Localized sections of Felsic Gneiss (S). Localized pegmatitic textures.	7	0	3
357.7	358.9	Garnet Biotite Felsic Gneiss	green_pink	FG	REL	Heavily altered unit (siliceous and sericite alteration). Relic texture is present.	3	5	0
358.9	360.3	Felsic Gneiss (G)	grey	FG		Localized sections of Felsic Gneiss (S).	3	0	1
360.3	362.2	Felsic Gneiss (S)	grey	FCG		1-2% coarse grained quartz eyes. Diorite at 360.8-361.2m. Garnet biotite felsic gneiss at 361.9-362.2m.	5	0	1
362.2	363.2	Pegmatite	white	MCG			3	0	
363.2	364.3	Felsic Gneiss (S)	grey	FG			7	0	0
364.3	366.8	Garnet Biotite Felsic Gneiss	green_pink	FG		Pegmatite at 365.6-366.1m.	35	2	20
366.8	370.7	Felsic Gneiss (S)	lt grey	FG		Localized sections of Felsic Gneiss (G).	5	0	3
370.7	372.4	Pegmatite	pink	CG			1	0	
372.4	373.3	Diorite	grey	FG			3	0	25
373.3	375.9	Pegmatite	pink	CG		Localized sections of Felsic Gneiss (S).	2	0	95
375.9	380.4	Diorite	dk grey	FMG	POR	Amphibolite at 379.6-379.9m	3	0	2
380.4	388.5	Felsic Gneiss (S)	beige	FG		Heavily altered. Garnet Biotite Felsic Gneiss at 387.4-387.7m. Quartz vein at 383.5-383.7m.	5	0	2
388.5	389.8	Diorite	grey	FMG	POR		3	0	0
389.8	390.4	Pegmatite	white	MCG			7	0	90
390.4	392.3	Amphibolite	green	FG		Heavily altered	15	0	1
392.3	393.1	UMLAMP Dike	beige	VFG		Intense sericite alteration.	1	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
393.1	394.4	Amphibolite	green	FG		Localized sections of Felsic Gneiss (S).	15	0	3
394.4	396.5	Biotite Felsic Gneiss	grey	FMG		Pegmatite at 294.6-294.9m.	50	0	10
396.5	398.8	Pegmatite	pink	MCG		Localized sections with biotite content up to 15%. Dioritic section at 397.9-398.1m.	7		85
398.8	399.9	Quartz Vein	white	FG		High grade zone.	0.5		
399.9	404.7	Felsic Gneiss (S)	grey	FMG			12	0	2
404.7	406.0	Amphibolite	green	FMG		First appearance of footwall unit.	15	3	1
406.0	407.5	Felsic Gneiss (S)	grey	FG		Localized dioritic texture.	7	0	0.5
407.5	412.7	Amphibolite	green	FMG		Start of footwall unit.	10	2	1
412.7	414.6	Pegmatite	white	MCG		Localized sections of amphibolite.	2	0	80
414.6	416.3	Felsic Gneiss (S)	grey	FMG		Localized dioritic textures.	7	0	1
416.3	426.0	Amphibolite	green	FG		EOH	12	3	1

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 396	Dip of Hole At Collar -50	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 18/01/2015	Date Completed 22/01/2015	Date Logged 18/01/2015 to 22/01/2015	Logged By A. Nette	(m) degrees	(m) degrees	Property Name Borden	Easting 331615
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5303313
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.3	Casing				Casing			
2.3	5.1	Amphibolite	green	FG		Weakly foliated amphibolite.	3		
5.1	12.9	Diorite	grey	FMG	PHN	Diorite with variable texture and local potassic alteration. Fault gouge from 9.3-9.34	2		
12.9	13.8	UMLAMP Dike	black	VFG	APH	Ultramafic dyke with shrp contacts, common fragments of diorite and large 5cm clast of gniess near center. Faulted lower contact with about 1.5cm of gouge.			
13.8	71.0	Diorite	grey	MG	PHN	Diorite with local variation in texture, alteration and sulphides. Occasional weak foliation. Minor UM dyke (similar to previous dyke) from 15.55-16m.	3		
71.0	76.0	Amphibole Felsic Gneiss	green	FCG	POR	Porphyritic amphibolite with sharp upper and lower contacts, chilled margins into adjacent lithologies suggests intrusive.	5		
76.0	85.9	Diorite	dk grey	FMG	MD	Diorite with increasing foliation, mottled FGS textures increasing towards lower contact. Occasional disseminated pyrite with local aggregates along foliation planes. Minor pegmatite from 85-85.12m with moderate and pervasive potassic alteration.	3		2
85.9	115.9	Felsic Gneiss (S)	grey	FCG	BND	Felsic gniess with local intervals of more dioritic texture, common quartz eyes and common foliation. Locally quartz/biotite rich with biotite aligned to foliation. Patchy potassic alteration halos around veinlets.	4		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
115.9	130.9	UMLAMP Dike	black	FMG	BT	Ultramafic dyke with common xenoliths and occasional amphibolite dykes. Amp dykes occur from 121.1-121.6m, 125.6-125m, and 126.3-127m. From 127-127.60 there is a short interval felsic gniess.	2		
130.9	135.3	Felsic Gneiss (S)	grey	FMG	POR	Felsic gniess with patchy potassic alteration local to UMD contact and minor amphibolite interval from 132.4-133.40m.	3		
135.3	138.3	Amphibolite	green	FMG	PHN	Amphibolite with some local FGS texture and increased quartz. Local pegmatite from 137.2-137.7m containing minor pyrite aggregates and biotite crystals near margins.	3		20
138.3	144.5	UMLAMP Dike	black	FMG	POR	Large ultramafic dyke with abundant xenoliths mm-cm scale. Sharp upper and lower contacts ~20 degrees tca.			
144.5	147.7	Felsic Gneiss (S)	pink	FCG	CHL	Strongly altered felsic gniess; biotite is mostly been altered to sillimanite. Local pegmatite from 146.3-147m.	2		30
147.7	148.8	UMLAMP Dike	black	FMG	XENO	Same as previous UMD.			
148.8	159.5	Felsic Gneiss (S)	grey	FMG	POR	Weakly foliated felsic gniess with a local UMD from 152.6-152.7m with chilled margins. Moderate to strong alteration near UMD contacts. Minor amphibolite at lower contact from 159-159.50m.	5		
159.5	161.0	Diorite	grey	MG	PHN	Short interval of diorite, sharp contacts with amphibolites.	5		
161.0	167.4	Amphibolite	green	FG	BND	Amphibolite with some minor intercalations of diorite containing small carbonate vugs. Sharp lower contact.	3		
167.4	170.3	Diorite	grey	MG	PHN	Diorite similar to previous diorite. Weak and pervasive potassic alteration.			
170.3	172.0	UMLAMP Dike	black	FMG	XENO	Ultramafic dyke, similar to previous dykes. Large amphibolite xenoliths near lower contact.			
172.0	177.5	Amphibolite	green	FG		Massive amphibolite with short local pegmatites 2-5cm. Weak foliation with trace fine-grained disseminated pyrite.	1		2
177.5	187.1	Felsic Gneiss (S)	grey	FCG	PHN	Weak to moderately foliated felsic gniess with minor biotite along foliation and associated fine-grained disseminated pyrite. Weak and patchy potassic alteration halos around veinlets.	3		
187.1	190.6	Amphibolite	green	FG	BND	Amphibolite with weak to moderate foliation. Massive quartz vein from 188.20-188.80m with disseminated pyrite and local aggregates near vein margins and in amphibole fragments within vein.	1		
190.6	195.1	Felsic Gneiss (S)	grey	FMG	PHN	Weak to moderately foliated felsic gniess with weak and patchy potassic alteration halos around veinlets. Local sericitic alteration halos around fractures.	2		
195.1	196.0	UMLAMP Dike	black	FMG	XENO	Same as previous ultramafic dykes.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
196.0	225.3	Felsic Gneiss (S)	grey	FMG	BND	weak to moderately foliated felsic gniess. Minor and local diorite from 200.8-201.50m and 206.1-207m; fine to medium grained, grey and weakly foliated. Moderate and patchy potassic and sericitic alteration from 209.3-220.4m. Trace disseminated pyrite, inc	4		
225.3	227.6	Amphibolite	green	FG	BND	Short interval of moderately foliated amphibolite with local intercallations of felsic gniess from 225.48-225.58 and 225.83-226.0m.	3		
227.6	242.5	Felsic Gneiss (S)	grey	FMG	BND	Similar to previous felsic gniess unit. Local amphibolite from 230-23.3m and 231.70-231.75m. Increased potassic and sericitic alteration from 235.50-241.50m; locally moderate to strong and pervasive.	5		
242.5	246.3	Diorite	grey	FMG	PHN	Weakly foliated diorite with weak and pervasive potassic alteration. Local amphibolite from 244.95-245.20m. Local xenolithic texture on amphibolite margin (intrusive?).	3		
246.3	247.2	Amphibolite	green	FG	CHL	Short interval of amphibolite with unique fractured and healed margin, xenoliths of amphibolite at margin.	3		
247.2	269.7	Felsic Gneiss (S)	grey	FMG	POR	Weak to moderately foliated felsic gniess with minor ultramafic dyke from 260.1-260.6m. Patchy cm scale quartz veins with large biotite crystals along margins. Local pegmatite from 267.8-268.5m; intercallated with FGS.	5		
269.7	271.3	Amphibolite	green	FG	BND	Weak to moderately foliated amphibolite. Patchy aggregates of sulphides along foliation.	2		
271.3	273.0	Diorite	dk grey	FMG	PHN	Short interval of diorite.	5		
273.0	275.1	Amphibolite	green	FG	BND	Short interval of amphibolite; similar to previous amphibolite. Minor disseminated sulphides. Massive quartz vein from 273.8-274m containing common aggregates of Py/Po.	2		
275.1	287.9	Felsic Gneiss (S)	grey	FMG	BND	Weak to well foliated felsic gniess. Biotite alteration increasing. Minor and local pegmatite from 277.4-277.7m. Ultramafic dyke from 278.4-279.2m with strong poatassic alteration halos on margins. Very minor and local amphibolite; cm scale.	5		3
287.9	289.0	Diorite	orange	FMG	POR	Highly strained diorite with weak to moderate and pervasive potassic alteration.	2		
289.0	291.0	Felsic Gneiss (S)	grey	FMG	BND	Same as previous felsic gniess, alteration intensity increasing near lower contact.	6		
291.0	299.8	Felsic Gneiss (G)	pink	FCG	PEG	Felsic gniess with moderate to intense alteration, increased strain and local intervals of pegmatite interfingered throughout. Larger interval of pegmatite from 291.9-292.3m. Sillimanite alteraion increasing along with potassic alteration.	10	0	15
299.8	301.5	Pegmatite	red	CG	PEG	Strongly potassicaly altered pegmatite with biotite, sillimanite and muscovite. Rare disseminated sulphides.	3		
301.5	302.2	UMLAMP Dike	black	FMG	CHL	Ultramafic dyke with common xenoliths. Chilled margins.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
302.2	304.0	Felsic Gneiss (G)	red	MCG	PHN	Poassically altered felsic gniess with common biotite, sillimanite and muscovite. Chilled margins adjacent to ultramafic dykes.	3		
304.0	306.5	UMLAMP Dike	beige	FMG	XENO	Ultramafic dyke with common xenoliths. Chilled margins. Creates strong potassic alteration in host rock.			
306.5	327.5	Felsic Gneiss (G)	green_pink	FMG	PEG	Felsic gniess (G) with intervallations of FGS from 306.5-314m. Alteration intensite increases downhole with more biotite, sillimanite and strong patchy potassic alteration. Local ultramafic dyke from 325.4-325.6m; chilled margins and broad potassic alteration.	10		
327.5	331.9	UMLAMP Dike	black	MCG	XENO	Large ultramafic dyke with common xenoliths and chilled margins. Contacts cut foliation alomost perpendicukar. It appears this dyke may be cutting out the upper portion of the main ore zone.			
331.9	336.8	Garnet Biotite Felsic Gneiss	grey_green	FG	BND	Strongly foliated and altered garnet-biotite felsic gniess with multiple massive grey quartz-sulphides veins from 333.3-333.5m and 333.8-334.5m. These veins are similar to mineralized veins in BL15-711 at similar depth. No visible gold observed.	20	5	
336.8	347.9	Diorite	pink	FMG	PHN	Diorite with weak and pervasive potassic alteration. Short intervals of ultramafic dyke slightly undulating into diorite and associated chilled margin.Trace sulphides and minor patches of increased biotite alteration.	5		
347.9	348.9	UMLAMP Dike	black	FMG	XENO	Ultramafic dike with common xenoliths and sharp contacts.			
348.9	359.8	Felsic Gneiss (G)	grey	FCG	PEG	Felisc gniess very variable in texture and strain. Local pegmatites throughout with larger intervals from 331.2-331.8m and 355.1-355.4m. Sulphide disseminations throughout along foliation planes and local aggregetes along small quartz veinlets and pegmatite	10	0	10
359.8	368.6	Amphibolite	grey_green	FMG	POB	Moderately strained amphibolite; common bands of garnet porphroblasts with occasional pressure shadows. Local grey colouring that appears to localized albite (sodic) alteration. Common mm-1cm quartz-carbonate veinlets with varied orientation to foliation.	5	7	
368.6	374.8	Diorite	grey_green	FMG	PHN	Diorite with weak and patchy potassic alteration; minor biotite along local foliation planes. Mafic dyke from 373.90-374.8m with amphibole crystls in a more felsic groundmass. Appears much different than previous UMDs and has sharp carbonate healed contacts.	3		
374.8	381.4	Felsic Gneiss (S)	grey	FCG	PEG	Weak to moderately foliated felsic gniess with local intercalated pegmatites from 378.1-379m with local biotite-epidote alteration and occasional sulphide aggregates. Trace disseminated sulphides throughout.	5	0	20
381.4	396.0	Amphibolite	grey_green	FMG	BND	Moderate to weakly foliated footwal amphibolite with common aggregates of red garnets, local grey albite altered intervals and a brecciated interval from 382.4-382.8m with quartz carbonate infill, abundant bands of biotite alteraion and sulphide aggregate	4	5	

Drilling Company Major	Core Size HQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 381	Dip of Hole At Collar -50	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 20/01/2015	Date Completed 22/01/2015	Date Logged 20/01/2015 to 22/01/2015	Logged By J. Klarner	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	4.6	Casing				Boulders of mainly Diorite and minor Amphibolite.			
4.6	11.4	Diorite	grey	FCG		Diorite, but foliated and not as clearly defined phenocrysts, could be felsic gneiss (s)? Minor felsic gneiss (s) unit from 5.2-5.9m.	3	0	0
11.4	11.9	UMLAMP Dike	dk grey	FCG	XENO	Moderate chl/epidote alteration at chill margins of upper and lower contact. Xenoliths are mm sized.	0.1	0	0
11.9	32.2	Diorite	grey	FCG		Diorite and Felsic Gneiss (s) intermixed unit. 0.5% qtz stringers locally potassic altered. Phenocrysts aren't well defined. Local patches of sulphides (py) disseminated associated with pegmatitic areas. Trace lenses of amphiboles.	2	0	0.5
32.2	39.9	Felsic Gneiss (S)	grey	FMG		Felsic gneiss (s) with minor lamprophyre dykes cross-cutting lithology at 35.7-35.9m and 39.3-39.5m. Down unit potassic alteration picks up around a brecciated zone with chlorite infilling.	2	0	0
39.9	50.9	Amphibolite	grey_white	FCG	VUG	Amphibolite with minor felsic gneiss throughout, one major unit from 42.4-43.9m. Locally epidote-carb-chl altered. Slightly vuggy is altered zones. High amount of amphibole. Grades down unit into more of a amphibole-rich felsic gneiss (no sharp contact). Trace garnets throughout (look altered).	2	0.5	0
50.9	54.2	Felsic Gneiss (S)	grey	FMG		Felsic gneiss with a slight porphyritic texture like the diorite but foliated. Banding of more amphibole-rich layers.	8	0	0
54.2	56.6	Diorite	grey_white	FCG	POR	Phenocrysts of feldspar have a weak carb alteration. Biotite weak chlorite alteration.	15	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
56.6	103.2	Felsic Gneiss (S)	grey	FMG		Felsic gneiss with very minor units of amphibolite and local clusters of not-well defined phenocrysts (like a diorite?) throughout. Mainly a felsic gneiss. 1% qtz-carb stringers throughout (with local potassic alteration).	13	0	5
103.2	109.1	Amphibole Felsic Gneiss	green	FCG		Sharp contact following foliation. Amphibole porphyritic rock where the amphiboles are altering to chlorite surrounded by a biotite matrix. Strong foliation, almost crenulated. Unit grades down hole into bigger sized (cm) amphibole porphyroblasts.	50	0	0
109.1	109.5	Felsic Gneiss (S)	grey	FMG			2	0	0
109.5	115.4	Diorite	grey	FCG		Diorite with a strongly potassic altered zone from 109.7-111.4m. Qtz eyes prominent in potassic zone. Alteration down unit weakens.	2	0	0
115.4	123.4	Amphibole Felsic Gneiss	green	FCG		Sharp contact following foliation. Amphibole porphyritic rock where the amphiboles are altering to chlorite surrounded by a biotite matrix. Strong foliation, almost crenulated. Core of unit has larger prophyroblasts (cm) than the margins of the unit.	50	1	0
123.4	126.6	Amphibolite	grey_green	FCG		Amphibolite, minor Amphibolite Felsic Gneiss with Diorite and minor Felsic Gneiss (s) mixed unit. Amphibolite has sharp contacts following foliation with other units. Local vugs down unit. Foliation is not so crenulated, more coherent rock.	3	0	0
126.6	131.5	Felsic Gneiss (S)	grey	FMG		Chlorite in selvages. 4% qtz-carb stringers throughout with associated sericite and potassic alteration. Ultramafic Lamprophyre dyke at 130.1-130.3m with sharp contact.	5	0	0
131.5	138.2	Amphibolite	green	FMG	VUG	Amphibolite with weak-moderate epidote-chl alteration throughout and associated pyrite. Very local (mm-cm) vugs. Grades into an amphibolite with lenses of more porphyritic rock (like the amphibolite felsic gneiss but not as defined or biotite rich).	3	0.5	2
138.2	149.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (s) with minor units of Amphibolite. Fault t 144m (60 degrees to core axis) potassic alteration just below fault. Felsic gneiss Amphibolite from 149.3-140.4m, 143.8-144m, 144.4-144.9m.	3	0	2
149.8	159.4	Amphibolite	grey_green	FMG		Amphibolite with minor units of diorite and felsic gneiss. Diorite from 153.6-154.25m, 155.25-156.3m. Felsic Gneiss (s) from 156.8-157.75m. Minor 5cm pegmatites throughout locally.	2.5	0	5
159.4	161.4	UMLAMP Dike	dk grey	FCG		Rounded up to cm sized xenoliths/lapilli. Chill margins minorly chilled. Amphibolite unit from 160.1-160.5m. Hematite nodules (mm) as xenoliths.	0.1	0	0
161.4	162.6	Diorite	green_pink	FCG		Diorite with moderate-strong potassic alteration. Minor amphiboles.	1	0	0
162.6	164.0	UMLAMP Dike		FCG		Minor lenses of diorite with potassic alteration from 163.1-163.2m. Contacts and fractures weakly epidote-sericite altered.	1	0	0
164.0	166.6	Diorite	green_pink	FCG		Diorite with minor lenses of amphibolite. Feldspars are weakly-moderately potassic altered. 1.5% qtz-carb stringers throughout.	2	0	0
166.6	178.5	Felsic Gneiss (S)	grey	FMG		Felsic gneiss with lenses throughout of amphibolite with a weak-moderate patchy silica alteration. Almost grades into Felsic Gneiss (s) with qtz eyes (next unit). 1% qtz-carb stringers. Trace-1% py disseminated throughout.	4	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
178.5	180.4	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (s) with qtz eyes. 3% qtz-carb stringers with associated potassic alteration. Locally altered bands of chlorite and associated with pegmatite veinlets.	5	0	0.5
180.4	183.2	Felsic Gneiss (S)	grey	FMG		Felsic gneiss (s) without qtz eyes and minor amphibolite layers. Ultramafic dyke cross-cuts from 181.1-181.3m. Lower contact of dyke chl-epiote altered and possibly has reibekite.	8	0	0
183.2	184.9	Amphibolite	grey_green	FMG		Amphibolite with cross-cutting ultramafic dykes throughout 183.4-184.1m, 184.5-184.6m. Defined contacts, but no major alteration at contacts.	1	0	0
184.9	197.0	Felsic Gneiss (S)	grey_green	FMG		Felsic Gneiss (s) with minor lenses of amphibolite. Brecciated zone from 187.6-187.8m. Pegmatite from 190.65-190.75m (coarse grained, potassic, trace blebs of pyrite). Locally coarse grained areas. T	10	0	0.5
197.0	198.8	Amphibolite	grey_green	FMG		Amphibolite with a fair % of biotite. Pyrrhotite disseminated throughout, pyrite associated with qtz veinltes/pegmatites.	8	0	2
198.8	206.6	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (s) with minor amphibolite layers and minor diorite units. Diorite from 402.7-403.0m, 204.7-204.9m. Minor 1% qtz-carb stringers with sericite alteration halos. Almost has a coarser grained texture like the undefined diorite.	3	0	1
206.6	208.1	Amphibolite	grey_green	FMG		Minor felsic gneiss (s) unit at bottom contact from 207.6-208.1m with bands of amphibolite throughout it.	4	0	0
208.1	222.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss, coarser grained locally almost like the diorite unit, but still quite foliated. Down unit towards contact (Ultramafic dyke) potassic alteration increases to mod-strong. Pegmatites have associated pyrite in fg blebs.	3	0	4
222.8	228.0	UMLAMP Dike	grey_green	FCG		Lamprophyre dyke with up to cm rounded xenoliths. One major section of felsic gneiss (s) wall rock from 224.7 to 225.9m mod-strongly potassic altered. Dyke contacts are chlorite/epidote altered. Trace reibekite? In alteration halo at contact.	0.5	0	0
228.0	239.1	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (s) with minor lenses of amphibolite. Potassic altered Ultramafic Dyke (Lamprophyre) from 231.5-232.0m. Local qtz eyes throughout unit. 4% stringers of qtz-carb with potassic alteration associated.	4	0	3
239.1	240.8	Amphibolite	grey_green	FMG		Amphibolite with epidote-chlorite alteration following foliation.	4	0	0
240.8	242.6	Diorite	grey_white	FCG	POR	Biotite rich diorite. Phenocrysts of feldspar about mm's big. Unit fairly foliated.	30	0	0
242.6	246.1	Amphibolite	grey_green	FMG		Amphibolite with minor units of diorite and felsic gneiss (s) intermixed in the foliation.	4	0.1	0.5
246.1	251.7	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (s) with minor band of amphiboles. (intermixed amphibolite+felsic gneiss). Major biotite-rich amphibolite unit from 251.5-251.7m.	5	0	0
251.7	259.3	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (s) with a coarser texture than the previous unit. Biotite in pegmatites are in local 3cm books. Brown biotite, possibly phlogopite? Trace mm garnets near bottom of unit. Coarse grained, almost qtz eyes but not quite as defined.	7	0.1	5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
259.3	263.1	Amphibolite	grey_green	FMG		Amphibolite with minor bands of felsic gneiss (s) (interbedded). Possibly start of minor zone above ore zone?	8	0	0
263.1	266.1	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (s) with minor amphibole-rich layering. Pegmatite at 263.5-263.8m.	5	0	4
266.1	267.1	Amphibolite	grey_green	FMG		Amphibolite with trace mm garnets and minor epidote. 1% qtz-carb stringers.	8	0.5	0
267.1	269.0	Diorite	grey_white	FCG		Diorite with mm feldspar phenocrysts. Foliated weak-moderately.	6	0	0
269.0	273.0	Amphibolite	grey_green	FMG		Bands of pyrrhotite following foliation locally. Muscovite present. Garnets are less than a mm.	3	1	0
273.0	279.0	Felsic Gneiss (S)	grey_green	FCG		Felsic Gneiss (s) with minor units of amphibolite. Pegmatite at 274.3-274.7m. Amphibolite 277.3-277.6m (with epidote-carb-chl alteration) and increased sulphides.	3	1	4
279.0	282.2	Amphibolite	grey_green	FMG		Amphibolite with minor felsic gneiss interbedded. Pegmatite at 280.7m (15cm wide with blebs of py+po) associated.	3	0.75	3
282.2	285.9	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (s) with minor Amphibole Felsic Gneiss unit from 282.5-283.1m (strained and potassic altered weakly). Minor bands of amphibole interbedded.	9	0.1	2
285.9	288.8	Amphibole Felsic Gneiss	green_pink	FCG	POR	Amphibole Felsic Gneiss, Amphiboles are being replaced by chlorite and biotite. Matrix is potassic altered.	20	0	0
288.8	295.1	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (s) with minor muscovite and a unit of Amphibole Felsic Gneiss (very strained, minerals stretched out, weak sericite alteration?) from 294.5-295.1m. Almost grades into the Felsic Gneiss (G).	25	0	0
295.1	305.1	Felsic Gneiss (G)	beige	FCG		Sillimanite replacing muscovite in clusters locally. Local potassic alteration. Felsic Gneiss (s) from 299.3-299.m	1	0	0
305.1	306.5	Diorite	dk grey	FCG	POR	Looks like a strained diorite. Phenocrysts are amphiboles. So possibly a Amphibole Felsic Gneiss strained out, not enough biotite though.	2	0.1	0
306.5	314.0	Felsic Gneiss (G)	grey	FCG		Felsic Gneiss (G) with minor units that look more like sedimentary derived (Fg(s) from 310.2-313.3m but still considered part of this unit. Bleached Amphibolite from 311-311.6m (strong potassic alteration, chlorite rims around qtz in pegmatites within unit)	2	0.1	1
314.0	314.8	Pegmatite	dk grey	VCG		Silicified pegmatite. Locally potassic altered. Possibly a good zone for gold? Blue-quartz silicification.	15	0	85
314.8	329.0	Felsic Gneiss (G)	beige	FCG		Lithology grades into a coarser grained unit as well as picks up potassic alteration down unit. Intermixed pegmatites throughout with associated sulphides in selvages. Possibly felsic gneiss (s) from 315.5-315.9m. Major pegmatite from 318.1-318.5m.	3	0	20
329.0	336.8	Garnet Biotite Felsic Gneiss	green_pink	FCG		Barnet Biotite Felsic Gneiss. Lenses of sulphide in the bands of foliation. Pegmatitic Quartz Vein from 333.2-333.7m. Down unit sericite alteration increases. Good unit for gold mineralization? Unit is weakly-moderately silica altered in patches.	25	8	15

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
336.8	339.0	Diorite	grey_white	FCG	POR	Diorite with minor lenses of Felsic Gneiss (s). Mm sized phenocrysts of feldspar. Local weak potassic-sericite-epidote alteration. Silicified pegmatite with associated sulphides from 337.9-338.2m.	5	0	5
339.0	347.4	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (s) with minor patches of amphibolite from 343.2-343.4m, 343.8-343.9m, 345.2-345.4m, and a minor unit of Quartz Feldspar Porphyry from 339.2-339.9m. Local lenses of more coarse-grained gneiss.	8	0	3
347.4	358.3	Felsic Gneiss (S)	grey	FCG		Fine to coarse-grained Felsic Gneiss (s) with pegmatites throughout with associated pyrrhotite and pyrite in selvages. Major pegmatite from 358.3-359.3m.	10	0	20
358.3	359.3	Pegmatite	white	CG		Local po associated in selvages, silicified weakly.	5	0	95
359.3	381.0	Amphibolite	grey_green	FCG	BND	Footwall Amphibolite. Amphibolite with interbedded minor lenses of more felsic gneiss (s) with garnets throughout. Subhedral garnets up to cm size in clusters. Local alteration zone moderately epidote altered at 363.3-364.1m.	10	20	0

Drilling Company Major	Core Size NQ	Collar Elevation (m) 430	Bearing of Hole from true North 205	Total Depth (m) 393	Dip of Hole At Collar -48	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 21/01/2015	Date Completed 24/01/2015	Date Logged 21/01/2015 to 24/01/2015	Logged By I. Therriault	(m) degrees	(m) degrees	Property Name Borden	Easting 331564 Northing 5303338 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.6	Casing							
3.6	12.3	Diorite	lt grey	FMG	VUG	Diorite. 0.2% pyrite.	1		
12.3	15.4	Amphibolite	green	FMG	VUG	Amphibolite. Irregular weak to moderate foliation. 0.5% pyrite.	2		
15.4	17.1	Diorite	lt grey	FG		Amphibole-rich diorite. 0.2% pyrite.	1.5		
17.1	18.9	Amphibolite	green	FMG		Amphibolite. Irregular, weak foliation. 0.5% pyrite.	3		
18.9	28.8	Diorite	lt grey	FCG	MELT	Diorite. Minor amphibolite 23.5-23.9m. Overall 0.7% pyrite.	2		
28.8	31.8	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. Trace pyrite.	2		
31.8	32.6	Diorite	grey	FMG		Diorite. Altered. Trace pyrite.			
32.6	33.7	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. Trace pyrite.	2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
33.7	37.6	Diorite	lt grey	FMG	MELT	Diorite. Includes minor amphibolite (36.15-36.35m) with 0.4% pyrite. Otherwise trace pyrite.	2		
37.6	41.0	Amphibolite	grey_green	FMG		Amphibolite. 2% pyrite and trace pyrrhotite.	2		
41.0	42.0	Diorite	grey	FMG		Diorite. Trace pyrite plus 1.5% in last 20cm.	1		
42.0	43.4	Amphibolite	green	FG		Amphibolite. 0.5% pyrite plus 3% in upper 30cm.	0.5		
43.4	47.9	Quartz Feldspar Porphyry (QFP)	grey	FCG	POR	QFP. Trace pyrite.	2		
47.9	50.3	Diorite	grey	FG		Diorite. 1.5% pyrite in upper 50cm otherwise 0.5% pyrite.	1.5		
50.3	53.6	Amphibolite	green	FG		Amphibolite. Includes diorite 51.5-51.95, 52-1-52.2m. 1% pyrite.	2		
53.6	71.9	Diorite	grey	FMG		Diorite. Minor vugs. Fairly homogeneous unit. Massive to locally weakly foliated. Up to 1% pyrite.	1.5		
71.9	77.7	Amphibole Felsic Gneiss	grey_green	FCG	POB	AMPG but generally medium grained and with strong fabric throughout. Trace pyrite.	15		
77.7	86.4	Diorite	grey	FMG		Diorite. Minor vugs. Massive to weakly foliated. 0.75% pyrite.	1.5		
86.4	91.3	UM\LAMP Dike	dk grey	FCG		Series of lamprophyre dykes intruding diorite (diorite at 86.85-87.55m, 88.5-89m with 0.3% pyrite).			
91.3	96.0	Amphibole Felsic Gneiss	grey_green	FCG	POB	AMPG, similar to above AMPG with strong fabric. More felsic interval between 93.5-93.8m. Trace pyrite.	10		
96.0	100.3	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. No visible sulphides.	1.5		
100.3	109.9	Felsic Gneiss (S)	grey	FMG		FG(s), locally diorite-looking but good foliation throughout, so FG(s). Minor vugs. 2% pyrite.	0.5		2
109.9	111.6	Amphibolite	green	FMG	VUG	Amphibolite. Vuggy in upper portion then broken up in lower. Trace pyrite and pyrrhotite.	3		
111.6	114.8	Diorite	grey	FMG		Diorite; includes sharp contacts within unit. 0.5% pyrite.	0.5		
114.8	130.9	Felsic Gneiss (S)	grey	FCG		FG(s); very altered with some more diorite-looking sections. Includes 40cm lamprophyre lens starting at 122.9m. Locally foliated. 126.7-127.9m looks like felsic intervals of AMPG but in a diorite background (?) Trace up to 0.75% pyrite.			10

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
130.9	133.6	Diorite	grey	FG		Amphibole-rich diorite. 0.3% pyrite.	0.3		
133.6	136.0	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. No visible sulphides.	2		
136.0	139.2	Felsic Gneiss (S)	grey	FMG		FG(s). Weakly foliated. 1.5% pyrite.	2		2
139.2	141.8	Amphibolite	green	FMG		Amphibolite/altered ultramafic dyke. Biotite-replaced amphiboles on a light green matrix. Trace pyrite.	20		6
141.8	148.0	Amphibolite	green	FMG		Amphibolite. Includes altered ultramafic dyke (same as previous unit) 146-75-147.15m. 0.5-1% pyrite, up to 4% near lower contact.	3		7
148.0	159.8	Felsic Gneiss (S)	grey	FMG		FG(s). Amphibolite 154.85-155.25m. Better foliated in lower part of unit. Up to 2% pyrite.	1.5		
159.8	161.6	Amphibolite	green	FG		Amphibolite. Minor vugs. 0.5% pyrite.	1		
161.6	164.1	Diorite	grey	FMG		Diorite. Weakly foliated. Trace pyrite.	2		
164.1	165.9	Amphibolite	green	FG		Amphibolite. 1% pyrite.	1		
165.9	166.6	UM\LAMP Dike	dk grey	FG		Lamprophyre dyke. No visible sulphides.	1		
166.6	171.4	Amphibolite	green	FG		Amphibolite. Minor diorite 167.15-167.35m and FG(s) near lower contact. 1% pyrite.	1		
171.4	174.3	Quartz Feldspar Porphyry (QFP)	grey	FCG	POR	QFP. Includes amphibolite 173.55-173.85m with 0.5% pyrite.	2		
174.3	179.2	Amphibolite	green	FG		Amphibolite. Minor FG(s) 176.15-176.5m. 0.7% pyrite.	1		
179.2	199.0	Felsic Gneiss (S)	grey	FMG		FG(s). Heterogeneous unit, altered. Minor vugs. Most pegmatites occur between 191.35-197.1m. 0.5 to 1.5% pyrite.	1		5
199.0	199.9	Diorite	grey	FMG		Diorite. Altered. Trace pyrite.			
199.9	204.0	Felsic Gneiss (S)	pink	FG		FG(s). Altered and broken up, so could be something else. Possible ultramafic dyke between 202.85-203.65m but core is broken up and pieces are missing and misplaced, so hard to tell exactly what is going on. Trace up to 0.5% pyrite.			5
204.0	204.6	UM\LAMP Dike	green	FG		Ultramafic dyke. Trace pyrite.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
204.6	237.6	Felsic Gneiss (S)	grey	FMG		FG(s). Moderate to strong alteration (KS and sericite, minor epidote) throughout. Foliation tends to be weak to overprinted by alteration. Pegmatites (locally larger quartz veins that pegmatitic on the edges) tend to be cm-scale. Trace up to 0.5% pyrite.	1		10
237.6	238.9	Diorite	grey	FMG		Diorite. Moderate to strong fabric. Trace pyrite.	1.5		
238.9	241.4	Amphibolite	grey_green	FG		Amphibole-poor amphibolite. 15cm dykelet at the end of the unit. 0.3% pyrite and 1.5% pyrrhotite.	0.5		
241.4	242.2	Felsic Gneiss (S)	grey	FMG		FG(s). Trace pyrite and 0.3% pyrrhotite.	1		
242.2	243.3	Amphibolite	grey_green	FG		Amphibole-poor amphibolite, similar to 238.9-241.4m. 3% pyrite and 1% pyrrhotite.	0.5		10
243.3	245.1	UMLAMP Dike	dk grey	FMG		Lamprophyre dyke. Calcite and talc alteration. No visible sulphides.	0.5		
245.1	248.9	Amphibolite	grey_green	FG		Amphibole-poor amphibolite, similar to the units above but slight increase. 2.5% pyrite and 1% pyrrhotite.	0.5		
248.9	249.7	UMLAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.			
249.7	253.8	Felsic Gneiss (S)				FG(s). Quartz veining with epidote between 250.05-251.9m, become pegmatitic 251.4-251.9m; contain pyrite and pyrrhotite. Locally up to 3% pyrite and 1.5% pyrrhotite.	1		7
253.8	254.9	Amphibolite	grey_green	FMG		Amphibolite. FG(s) 254.4-254.6m. 2% pyrite and 1% pyrrhotite.	0.5		
254.9	264.9	Felsic Gneiss (S)	grey	FCG		FG(s) with a few quartz eyes at the top. Pegmatites cm to dm-scale in interval 256.7-257.40m. Garnets in interval 258.4-259.35m. Locally foliated and altered. Low angle lamprophyre dyke 259.9-260.65m. Up to 2% pyrite and 0.3% pyrrhotite.	2		7
264.9	265.5	UMLAMP Dike	dk grey	FG		Lamprophyre dyke. Trace pyrite.	0.2		
265.5	266.7	Pegmatite	grey	FCG		Pegmatite. 0.5% pyrite.	0.5		100
266.7	267.2	UMLAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	0.5		
267.2	269.2	Amphibolite	grey_green	FG		Amphibole-poor amphibolite. 0.75% pyrite, 0.2% pyrrhotite.	0.5		2
269.2	270.7	Felsic Gneiss (S)	grey	FG		FG(s) locally diorite looking. 1% pyrite.	4		
270.7	272.2	Amphibolite	grey	FG		Amphibole-poor amphibolite. Trace pyrite and 0.3% pyrrhotite plus pyrite in pyrrhotite in quartz vein (folded).	0.5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
272.2	272.9	Garnet Biotite Felsic Gneiss	grey	FG		Not best example of GBFG, just a lot of biotite and minor garnets. Trace pyrite and pyrrhotite.	5	0.3	
272.9	274.1	Amphibolite	grey_green	FMG		Amphibolite. 1% pyrite.	0.5	0.1	1
274.1	276.4	Pegmatite	lt grey	FCG		Pegmatite. 0.5% pyrite.	0.5		95
276.4	282.2	Felsic Gneiss (S)	grey	FG		FG(s). Minor vugs. Trace up to 2% pyrite.	2.5		10
282.2	288.0	Diorite	grey	FCG		Foliated, altered diorite (that's the one that looks like amphiboles on KS matrix). 1% pyrite.	0.5		
288.0	290.8	Felsic Gneiss (S)	grey	FG		FG(s). 1.5% pyrite.	1.5		2
290.8	295.9	Felsic Gneiss (G)	pink	FCG		FG(g). Trace pyrite.	1		17
295.9	296.9	Pegmatite	pink	FCG		Pegmatite. Trace pyrite.	0.5		100
296.9	304.5	Felsic Gneiss (G)	pink	FCG		FG(g). Trace pyrite.	2		10
304.5	305.5	Felsic Gneiss (S)	grey	FG		FG(s). Locally weakly foliated. 0.5% pyrite and 0.2% pyrrhotite.	2		
305.5	307.3	Felsic Gneiss (G)	grey	FCG		FG(g). 0.5% pyrite.	1		10
307.3	308.2	UM\LAMP Dike	green	FG		Light brownish green fine grained ultramafic dyke, several pulses. Trace pyrite.			
308.2	309.1	Felsic Gneiss (G)	pink	FCG		FG(g). Moderate-strong potassic alteration. 1% pyrite.			
309.1	309.8	Diorite	red	FMG		Altered (mainly potassic) diorite. Includes minor UMD similar to the one just uphole, 309.45-309.55m. Trace pyrite.			
309.8	314.0	Felsic Gneiss (S)	grey	FCG		FG(s). Includes altered UMD 313.75-314m. Up to 0.4% pyrite and 0.3% pyrrhotite.	2		4
314.0	336.1	Felsic Gneiss (G)	pink	FCG		FG(g). Fault including fracturing, brecciation and rubble zones in interval 323.75-334.6m. Includes cm-scale low angle ultramafic dykelets in interval 327.3-333.9m plus a larger one at 332.55-332.85m. Possible remnants of GBFG (very altered) 328.65-328.8m	0.5		10
336.1	339.0	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	0.2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
339.0	346.2	Felsic Gneiss (G)	grey	FCG		FG(g). Includes irregular UM dykelets down to 340.9m. Abundant quartz-epidote veining in last 0.85m. Up to 3% pyrite and 2% pyrrhotite. *start of mineralisation envelope.	2		10
346.2	347.0	Diorite	grey	FMG		Diorite. 0.5% pyrite.			
347.0	352.3	Pegmatite	beige	FCG		Pegmatite. Altered with potassic alteration and epidote. Trace pyrite and pyrrhotite. *higher grade zone	3		100
352.3	356.3	Felsic Gneiss (G)	grey	FCG		FG(g), not typical looking, more a FG(s) with a lot of muscovite. Foliated but very irregular 0.75% pyrite and 2% pyrrhotite.	4		20
356.3	359.6	Pegmatite	grey	FCG		Pegmatite. 359.15-359.6m is FG(s) with 10cm pegmatite, 0.4% pyrrhotite. Trace pyrite and pyrrhotite otherwise.			90
359.6	368.2	Diorite	grey	FMG		Diorite. Trace up to 0.5% pyrite.	4		
368.2	373.5	Felsic Gneiss (S)	grey	FMG		FG(s). Includes minor footwall amphibolite (373.05-373.15m and 372.0-372.55m) with 0.2% pyrrhotite. 0.5% pyrite and trace pyrrhotite in FG(s).	1.5	0.2	
373.5	393.0	Amphibolite	grey_green	FMG		Footwall amphibolite. 2% pyrrhotite. EOH=393m.	3	5	2

Drilling Company Major	Core Size NQ	Collar Elevation (m) 433	Bearing of Hole from true North 205	Total Depth (m) 456	Dip of Hole At Collar -48	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 20/01/2015	Date Completed 23/01/2015	Date Logged 20/01/2015 to 23/01/2015	Logged By N. Lintner	(m) degrees	(m) degrees	Property Name Borden	Easting 331783 Northing 5303323 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.4	Casing							
2.4	69.6	Diorite	grey	FCG	POR	Quartz vein at 27.8-28.3m and 35.2-35.4m. UM/Lamp at 54.4-54.6m. Pegmatite at 57.1-57.5m and 58.1-58.4m.	7	0	0
69.6	71.7	Amphibolite	green	FG			15	0	0.1
71.7	82.5	Diorite	grey	FCG	POR	Amphibolite at 74.9-75.0m.	3	0	1
82.5	102.0	Felsic Gneiss (S)	grey	FMG	MD	Locally multiple sections that are borderline pegmatite (some melting textures?). All sections have gradational boundaries and are generally <10cm in width. Quartz vein sub-parallel (<5 degrees TCA) to core at 88.1-90.2m.	12	0	10
102.0	106.4	Diorite	grey	FMG	POR	Localized sections of Felsic Gneiss (S). Thin sections of pegmatite have gradational contacts.	10	0	8
106.4	113.1	Diorite	grey	FMG		Lacks a well defined porphyritic texture but also lacks foliation. Localized sections of Felsic Gneiss (S).	7	0	5
113.1	114.1	UM\LAMP Dike	dk grey	FG		1cm wide vfg, light grey chill margins.	2	0	0
114.1	130.6	Diorite	grey	FMG	POR	A weak foliation is present but poorly defined (only by the alignment of the biotite).	7	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
130.6	147.1	Diorite	grey	MCG	POR	Upper contact is sharp but irregular. Very well developed porphyritic texture. Separate pulse? Pegmatite at 141.9-142.3m.	10	0	2
147.1	157.7	Felsic Gneiss (S)	grey	FMG		Pegmatite at 153.0-153.1m. Localized dioritic texture.	10	0	2
157.7	161.1	UM\LAMP Dike	lt grey	FG		1cm wide chill margins.	0	0	0
161.1	165.5	Felsic Gneiss (S)	grey	FG			7	0	2
165.5	166.8	Felsic Gneiss (S)	grey	FMG		Similar to surrounding units but contains higher biotite that highlights the foliation.	12	0	2
166.8	176.8	Felsic Gneiss (S)	grey	FMG			7	0	1
176.8	182.2	Diorite	grey	FMG	POR	Porphyritic texture is poorly to moderately developed.	10	0	0
182.2	183.2	UM\LAMP Dike	lt grey	VFG			0	0	0
183.2	198.8	Felsic Gneiss (S)				Biotite content varies slightly between 3-7%. Pegmatite at 185.6-186.3m, 190.8-191.1m, and 192.0-192.1m. Unit is slightly more felsic than surrounding units and less foliated.	5		2
198.8	201.4	Felsic Gneiss (S)	dk grey	FMG		Unit becomes more mafic and has stronger foliation. An increase in sulphides is also noted.	15	0	0
201.4	205.6	Felsic Gneiss (S)	grey	FG		Similar to unit from 183.2-198.8m. Becomes more felsic and finer grained. Foliation strength decreases. Contains rare pegmatic crystals up to 1.5cm in diameter.	7	0	2
205.6	218.0	Felsic Gneiss (S)	grey	FMG		Foliation strength varies slightly throughout the unit. Pegmatite at 206.5-206.7m, 214.1-214.2m, 214.8-215.0m, and 215.2-215.7m. Amphibolite at 215.8-216.0m.	12	0	5
218.0	222.3	Diorite	dk grey	FCG	POR	Fine grained Felsic Gneiss (S) at 220.4-221.0m. Similar unit except it lacks the porphyritic texture. Amphibolite at 218.2-218.6m.	10	0	2
222.3	224.5	Felsic Gneiss (S)	grey	FMG		Pegmatite at 222.3-222.6m and 222.9-223.2m. Lower contact is gradational.	7	0	15
224.5	230.1	Felsic Gneiss (S)	dk grey	FG		Upper contact is gradational. Unit is darker and slightly more siliceous than surrounding Felsic Gneiss (S). Localized dioritic textures.	15	0	0
230.1	233.8	Amphibolite	green	FMG	POR	UM/Amphibolite at 230.4-231.0m with biotite content up to 40%. The unit is porphyritic and intermixed with sections of Felsic Gneiss (S) that contain hornblende. The more felsic sections host the alteration.	15	0	0
233.8	236.9	Amphibolite	grey	MCG	POR	Ultramafic Amphibolite.	40	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
236.9	238.3	Amphibolite	green	FG		The unit is much finer grained than surrounding units but still contains 40-50% hornblende. The upper contact with the Ultramafic Amphibolite is sharp. Unit is strongly magnetic.	7	0	0
238.3	238.8	Diorite	grey	FMG	POR		5	0	0
238.8	242.6	Amphibolite	green	FG		Diorite at 239.4-239.8m. Unit becomes very fine to fine grained at 240.1-240.5m.	20	0	
242.6	247.3	Diorite	grey	FMG	POR		5	0	1
247.3	251.6	Amphibolite	green	FG			12	0	0
251.6	256.8	Diorite	grey	FMG	POR	Localized sections of Felsic Gneiss (S).	10	0	
256.8	257.9	Amphibolite	green	FG		Pegmatite at 257.5-257.8m.	12	0	35
257.9	259.9	Diorite	grey	FMG	POR		7	0	0
259.9	263.5	Amphibolite	green	FG			12	0	0
263.5	267.2	Felsic Gneiss (S)	grey	FG		Foliation is poorly defined. Amphibolite at 265.2-265.7m.	3	9	0
267.2	269.1	Quartz Feldspar Porphyry (QFP)	dk grey	FCG	POR	Amphibolite at 268.1-268.2m.	20	0	0
269.1	273.9	Felsic Gneiss (S)	grey	FMG			3	0	0
273.9	274.9	UM\LAMP Dike	green	FG			15	0	0
274.9	286.7	Felsic Gneiss (S)	grey	FCG	POR	3-5% coarse grained quartz eyes in a fine grained, foliated Felsic Gneiss (S). Biotite rich sections with up to 20% biotite at 282.5-282.7m, 283.5-284.0m, and 284.3-284.4m. Amphibole Felsic Gneiss at 279.1-279.2m.	3	0	0
286.7	289.1	Felsic Gneiss (S)	grey	FMG		Biotite rich sections with biotite up to 20% at 286.7-287.0m and 287.2-287.3m. Amphibolite at 287.7-287.8m. 2-3% coarse grained quartz eyes.	7	0	0
289.1	289.8	Amphibolite	green	FG			5	0	0
289.8	305.4	Felsic Gneiss (S)	grey	FG		Localized dioritic sections. Amphibolite at 296.0-296.2m and 296.4-296.9m. Quartz vein at 299.5-299.6m and 302.6-302.7m. Heavily altered.	3	0	2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
305.4	307.1	Diorite	grey	FMG	POR	Quartz vein at 306.1-306.2m and 306.6-306.8m.	5	0	2
307.1	308.9	Felsic Gneiss (S)	grey	FCG	POR	2-3 coarse grained quartz eyes.	3	0	1
308.9	311.1	Amphibolite	green	FG	BND	Strongly foliated and amphiboles are clustered in bands giving a banded appearance	5	0	0
311.1	313.0	Diorite	grey	FMG	POR		10	0	0
313.0	314.4	Amphibolite	green	FG			15	0	0
314.4	317.8	Diorite	grey	FMG	POR	Localized sections of Felsic Gneiss (S).	3	0	1
317.8	319.3	Amphibolite	green	FG		Diorite at 318.5-318.8m and 318.9-319.0m. The dioritic sections contain 10-15% hornblende.	12	0	0
319.3	326.4	Felsic Gneiss (S)	grey	FG		Pegmatite at 319.6-320.1m. Amphibolite at 320.6-320.8m and 321.0-321.3m. Diorite at 322.1-322.6m.	7	0	3
326.4	327.7	Diorite	grey	FMG	POR		5	0	0
327.7	328.5	Amphibolite	green	FG		Biotite has irregular distribution resulting in biotite rich and poor bands.	15	0	0
328.5	329.3	Felsic Gneiss (S)	grey	FG		Localized dioritic texture.	3	0	2
329.3	330.1	Amphibolite	green	FG			15	0	0
330.1	334.1	Felsic Gneiss (S)	grey	FMG		Pegmatite at 330.5-330.9m and 331.7-332.0m. Diorite at 331.0-331.3m. Amphibolite at 332.0-332.3m.	5	0	20
334.1	338.7	Felsic Gneiss (S)	grey	FMG		Localized sections of Felsic Gneiss (G). Pegmatite at 335.2-335.5m and 336.9-337.0m. Foliation is only defined by the alignment of biotite.	4	0	7
338.7	339.5	Amphibolite	green	FG			20	0	0
339.5	343.8	Felsic Gneiss (S)	grey	FMG		Localized concentrations of biotite up to 7% in thin bands giving rise to a banded appearance.	3	0	0
343.8	346.5	Garnet Biotite Felsic Gneiss	green_pink	FMG			40	7	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
346.5	354.7	Felsic Gneiss (G)	pink	FCG		Garnet Biotite Felsic Gneiss at 347.5-347.7m.	1	0	1
354.7	356.7	Diorite	dk grey	FCG	POR		7	0	0
356.7	361.1	Felsic Gneiss (G)	beige	FMG			2	0	2
361.1	362.1	Amphibolite	green	FMG			15	3	0
362.1	363.4	Felsic Gneiss (G)	beige	FMG			3	0	15
363.4	365.1	Felsic Gneiss (S)	grey	FG		Pegmatite at 364.2-364.7m.	10	1	25
365.1	366.9	Garnet Biotite Felsic Gneiss	green_pink	FMG			30	3	0
366.9	367.8	Amphibolite	grey	FMG		Very similar to the surrounding garnet biotite felsic gneiss but contains hornblende throughout.	15	3	0
367.8	372.1	Garnet Biotite Felsic Gneiss	green_pink	FMG		Pegmatite at 371.7-371.9m.	45	5	2
372.1	373.2	Felsic Gneiss (G)	lt grey	FG			3		0
373.2	374.4	Amphibolite	green	FG			20	3	0
374.4	375.9	Felsic Gneiss (S)	lt grey	FG			10	0	5
375.9	376.9	Garnet Biotite Felsic Gneiss	green_pink	FG			25	3	0
376.9	380.1	Pegmatite	pink	CG		Garnet Biotite Felsic Gneiss at 379.6-379.8m.	3	0	98
380.1	382.2	Felsic Gneiss (G)	grey	FG		Pegmatite at 381.6-381.8m. Localized sections of Felsic Gneiss (S).	5	0	5
382.2	383.5	Felsic Gneiss (S)	grey	FMG	POB	Contains 5-7% medium grained hornblende porphyroblasts that have been slightly stretched along the foliation plane.	15	0	2
383.5	384.8	Felsic Gneiss (S)	grey	FG			10	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
384.8	395.5	Felsic Gneiss (G)	pink	MG		Localized sections of Felsic Gneiss (S). Shear zone at 385.8-385.9m. Pegmatite at 386.3-386.5m, 391.2--391.4m, and 392.7-392.8m.	3	0.1	7
395.5	399.8	Garnet Biotite Felsic Gneiss	beige	FMG		Intensely altered and strongly foliated. Pegmatite at 398.9-399.2m. Localized banding with a higher concentration of biotite. Red to beige. Relict texture is present but most primary mineralization has been altered.	4	2	2
399.8	400.7	Diorite	grey	FMG	POR		12	0	0
400.7	403.0	Felsic Gneiss (G)	grey	FG		Diorite at 401.1-401.4m and 402.2-402.5m.	7	0	35
403.0	404.2	Pegmatite	white	CG			2	0	90
404.2	405.7	Biotite Felsic Gneiss	grey	FG		Biotite is concentrated into thin bands defining the foliation. Silicified.	30	0	15
405.7	409.1	Pegmatite	white	FCG			2	0	100
409.1	409.6	Amphibolite	green	FG			15		0
409.6	413.8	Quartz Vein	white	FCG		2 flecks of visible gold.	1	0	2
413.8	416.3	Garnet Biotite Felsic Gneiss	dk grey	FMG		Quartz vein at 414.9-415.1m.	30	3	7
416.3	417.9	Diorite	dk grey	FCG	POR		20	0	0
417.9	418.8	Pegmatite	white	FCG			3	0	100
418.8	422.4	Felsic Gneiss (S)	dk grey	FG		Localized sections of diorite. Pegmatitic section (partially melted and gradational into a pegmatite in the centre) at 420.1-420.7m.	12	0	5
422.4	428.7	UMLAMP Dike	dk grey	FG			2	0	0
428.7	432.2	Felsic Gneiss (S)	grey	FG			3	0	0
432.2	433.0	UMLAMP Dike	green	FG			2	0	0
433.0	447.9	Amphibolite	green_pink	FG		Footwall	15	7	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
447.9	452.2	Felsic Gneiss (S)	grey	FG		Intermixed sections of amphibolite.	3	1	1
452.2	456.0	Amphibolite	green_pink	FG		EOH	15	5	0

Drilling Company Major	Core Size HQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 420	Dip of Hole At Collar -70	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 22/01/2015	Date Completed 27/01/2015	Date Logged 22/01/2015 to 27/01/2015	Logged By J. Klarner	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.0	Casing							
3.0	9.7	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss with a slight porphyritic texture. Weakly silica altered. Almost diorite, but to foliated and not as defined.	5	0	0
9.7	12.5	Diorite	grey	FCG		Defined phenocrysts (mm), slight foliation.	8	0	0
12.5	16.2	Amphibolite	grey_green	FMG			5	0	0
16.2	26.9	Felsic Gneiss (S)	grey	FCG	VUG	Felsic Gneiss (s) with minor amphibolite lenses throughout. Amphibolite frm 23.3-23.8m. Local vuggy patches (cm wide) with carb-epidote alteration and associated pyrite (mm). 1% stringers of qtz-carb with weak potassic alteration throughout.	8	0	1
26.9	58.4	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (s) with minor qtz veining throughout. Qtz Vein from 43.8-44.2m. Small units of Quartz Feldspar Porphyry from 55-55.4m, 56.3-56.7m. Qtz eyes aren't well defined throughout, just locally (core of unit).	3	0	2
58.4	74.0	Diorite	grey	FCG	POR	Diorite with minor lenses of felsic gneiss (s), grades to a slightly more amphibole rich unit. Mm sized phenocrysts. Weak potassic alteration locally towards end of unit. Locally vuggy and weak carb alteration around pegmatites. Ultramafic dyke at 60.5-60.9m (about 20cm thick).	3.5	0	2
74.0	84.3	Amphibole Felsic Gneiss	grey_green	FCG	POC	Amphibole Felsic Gneiss, amphiboles being replaced by chlorite and biotite (rims). Porphyroclasts up to cm in size.	20	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
84.3	106.4	Felsic Gneiss (S)	grey	FCG	VUG	Felsic Gneiss (S) with coarser banding in sections: 84.3-90m, and from 92.3-106.4m. Coarser units have minor quartz eyes throughout, not too distinctive. Qtz vein at 94.4-94.5m. Locally matrix is weakly potassic altered. Local pegmatites are vuggy and weakly carbonate-epidote altered. 1% qtz-carb stringers with minor sericite alteration. Local area of increased biotite from 98.2-98.6m (10% as phenocrysts, not well defined in a more feldspar rich matrix).	7	0	3
106.4	119.0	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with coarser banded sections very local (not as distinctive as previous unit). Amphibole layering increases down unit. Qtz vein at 106.6-106.8m. 2% qtz-carb stringers with minor sericite-potassic alteration cross-cutting foliation. Stronger foliation than previous unit especially towards lower contact of amphibolite. Trace garnets associated with amphibole layering very locally.	8	0.1	2
119.0	123.3	Amphibolite	grey_green	FMG		Amphibolite unit with moderate qtz-carbonate veining throughout, weak-moderate carbonate alteration, hematite staining, very blocky core. Minor units of Felsic Gneiss (S) with interbedded diorite? from 121-121.4m, 122.3m-123m. Quartz Vein from 119.7-120m with associated pyrite and pyrrhotite in mm blebs.	2	0	2
123.3	125.1	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with very minor banding of more amphibolite-rich rock.	10	0	1
125.1	133.9	Felsic Gneiss (S)	grey	FCG		Coarse-grained Felsic Gneiss (S) with qtz eyes throughout (cm). Ultramafic Dyke from 127.2-127.35m (very altered, baked, sericite?). Weak-moderate potassic alteration throughout.	4	0	0
133.9	144.4	Amphibolite	grey_green	FMG	VUG	Amphibolite with minor units of Felsic Gneiss (S). Locally vuggy. Epidote alteration throughout. 4% qtz-carb stringers throughout with associated pyrite. Felsic Gneiss (s) from 136.5-137.4m, 140.7-141.25m. Nicely mineralized zone. Garnets less than a mm in size. Local strong potassic/hematite? Alteration in matrix.	10	1	1
144.4	145.7	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with 2% qtz-carb veining and associated strong potassic-weak sericitic alteration. Minor patches of amphiboles.	8	0	0
145.7	148.2	Pegmatite	grey_white	FCG	PEG	Pegmatite with minor Felsic Gneiss (s) in patches. Felsic Gneiss (s) from 146.3-146.8m, 146.9-147.4m, although more like intermixing of the two lithologies.	15	0	70
148.2	167.0	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with about 2% qtz-carb veinlets throughout with associated potassic-sericitic alteration cross-cutting and following foliation. Pegmatite from 150.25-150.9m, 164.4-164.6, 165.1-165.4m (last pegmatite has cm blebs of pyrite+pyrrhotite associated in selvages). Locally coarser grained areas and finer grained more foliated areas. Very locally carb alteration following foliation with very small vugs (tiny pits) in the rock.	15	0	4
167.0	167.6	UMLAMP Dike	green	VFG		Strong epidote/sericite alteration in dike. Whole dike looks baked. Margins in host rock moderate-strong potassic alteration.	0	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
167.6	181.7	Felsic Gneiss (S)	grey	FMG	AUG	Felsic Gneiss (s) with minor units of amphibolite and local areas of more amphibole-rich banding, especially at the lower contact where it grades to biotite rich amphibolite. Amphibolite from 169.6-170.5m, 173-173.95m, Felsic Gneiss (s) unit that has up to 3cm clast of quartz augened and following foliation (labelled porphyry in modifier for this unit). Pegmatites from 168.8-169.1m, 175.5-176.3m (moderate-strong sericite/epidote/potassic alteration throughout), 181.3-181.65m.	10	0	15
181.7	186.8	Amphibolite	grey_green	FCG	POC	Ultramafic Amphibolite (Biotite-Rich). Amphiboles are being replaced by biotite and chlorite, but not strongly porphyroclastic as Amphibolite Felsic Gneiss although possibly a greater strained version? Locally faults throughout. Faults at 184.2m, 185.3m. Pegmatite at 182.4-182.8m.	25	0	8
186.8	189.2	Felsic Gneiss (S)	grey	FMG		Unit 5% qtz-carb stringer with mod-strong potassic alteration cross-cutting foliation. Pegmatites at start of unit.	4	0	5
189.2	192.8	Diorite	grey_white	FCG	POR	Foliated with semi-coherent phenocrysts of feldspar (mm). Weak potassic alteration throughout. 1% qtz-carb stringers with potassic alteration.	12	0	0
192.8	197.6	Felsic Gneiss (S)	grey	FMG		weak sericite alteration throughout. Minor blebs of biotite+epidote+chlorite following foliation possibly replacing amphiboles? throughout. 1% quartz-carb stringers with weak potassic alteration.	5	0	0.5
197.6	218.9	Felsic Gneiss (S)	grey	FMG	VUG	Felsic Gneiss (S) with minor units of amphibolite as well as intermixed amphibolite lenses throughout that aren't as frequent down unit. Amphibolite from 200.1-202.2m, 206.6-207.05m, 207.2-207.35m, 214.25-214.35m. Minor diorite unit from 215-215.1m. Major pegmatites from 207.05-207.2m, 218.5-218.6m. 2% qtz-carb stringers with associated sericite alteration. Minor local vuggy blebs with associated epidote (in amphibolite banding). Trace garnets in amphibolite layers.	8	0.1	3
218.9	230.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (s) with a coarser texture and less amphibolite layers interbedded. Fair bit more pegmatites interbedded. Amphibolite from 221-221.2m (with a moderate ser-potassic alteration), 229.7-229.9m (with a moderate epid-ser-potassic alteration). Minor diorite unit from 221.25-221.3m. 3% qtz-carb stringers with associated sericite-potassic alteration. Pegmatite from 229.15-229.45m (associated ser-potassic alteration at contacts). Trace muscovite throughout.	5	0	8
230.8	238.0	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor banding of Amphibolite throughout. Also a local unit of Amphibole-rich Diorite (or phenocrystic amphibolite?) from 236.4-237.1m (lower contact strong sericitic to potassic alteration). 2% qtz-carb stringers throughout with associated potassic, minor sericitic alteration. Weak potassic alteration throughout unit.	5	0	3
238.0	239.1	Amphibolite	grey_green	FMG		Ultramafic Amphibolite? Lots of biotite. Upper contact has a fair bit of qtz-carb stringers with associated weak to moderate potassic-sericitic alteration, grades to a weaker potassic altered set of stringers. 1% qtz-carb stringers throughout.	15	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
239.1	247.4	Felsic Gneiss (S)	grey_green	FCG		Felsic Gneiss (S) with units of Amphibolite (ultramafic?, biotite-rich). Amphibolite from 241-242m, 242.15-243.5m, 244.6-244.85m. Amphibolite units have minor epidote alteration in them. Ultramafic Dyke (Lamprophyre) at 245.7-246.05m with chlorite altered contact and associated reibekite at the lower contact. 2% Quartz-Carbonate stringers with moderate sericite-potassic (weak) alteration in them especially towards the lower contact. Quartz eyes get prominent down unit also. Pegmatite from 240.2-240.35m.	10	0	5
247.4	251.8	Amphibolite	grey_green	FMG		Amphibolite with minor banding of Felsic Gneiss (S) and Diorite. Ultramafic Dike from 248.1-248.2m (with minor hematite blebs within it). Possibly a minor ore zone? Banding of pyrite+pyrrhotite. Trace (less than mm) garnets locally.	15	0.1	0
251.8	260.0	Diorite	grey_green	FMG	POR	Diorite with amphibole-rich layering and units of amphibolite. Nice pyrite, pyrrhotite, chalcopyrite mineralization through unit (nice mm banding at 255.25m. Amphibolite from 256.15-256.65m (weak-mod epidote-carb alteration), 259.5-259.95m. Feldspar phenocrysts throughout (mm sized).	10	0	1
260.0	262.4	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor units and banding of amphibolite and silica flooded pegmatites with associated py, cpy and molybdenite. Amphibolite from 260.8-261.05m. Pegmatite from 260-260.1, 260.3-260.5m, 261.05-261.85m. Lots of biotite associated around pegmatites. Bottom of unit weak-moderately potassic altered.	8	0	30
262.4	265.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss with pegmatites throughout, 262.4-262.7m, 263.8-264.1m. Local areas almost look like diorite unit with feldspar phenocrysts. Pegmatites are coarse grained, made up of quartz, feldspar, epidote, with blebs of pyrite associated in the chlorite selvages and in the quartz. Unit grades to a finer grained gneiss.	10	0	30
265.8	267.4	Amphibolite	grey_green	FMG		Amphibolite, trace garnets (mm). Nice po+py mineralization ~2%.	5	0.3	0
267.4	268.6	Diorite	grey_white	FCG	POR	Looks very much like Felsic Gneiss (S) but phenocrysts are well defined, still foliated like a gneiss.	20	0	0
268.6	270.6	Amphibolite	grey_green	FMG		Amphibolite with minor banding of Felsic Gneiss (S) and Diorite.	4	0	0
270.6	271.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with minor unit of Amphibolite at 271.15-271.3m.	4	0	0
271.8	272.9	Amphibolite	grey_green	FMG		Amphibolite with Felsic Gneiss (S) banded within. Mainly hornblend rich, more amphibolite than gneiss. Quartz Vein from 271.9-272.1m (associated 1% moly, trace py+cpy).	8	0.1	20
272.9	275.6	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with interbanded hornblend, Pegmatites throughout and an Ultramafic Dike (Lamprophyre) cross-cutting lithology. Pegmatitic unit from 273.3-273.9m, 274.05-274.15m. Dike from 274.6-274.9m (with 5% quartz-carbonate veining assoc.) Lower contact silicified and weak ser-epid alteration. Brecciated area from 274.4-274.6m. Very trace qtz eyes.	5	0	20
275.6	277.5	Amphibolite	grey_green	FMG		Amphibolite unit with interbanded layers of Felsic Gneiss (S). Nice unit, ~1.5%po, 0.5%py.	15	0.1	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
277.5	280.0	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor hornblend layering and trace garnets (2mm) locally. Qtz vein at 278.2-278.25m (associated 2% py in mm blebs). Moderately silicious unit.	5	0.1	1.5
280.0	281.3	Garnet Biotite Felsic Gneiss	grey_green	FCG		Garnet Biotite Felsic Gneiss with interbanding of Felsic Gneiss (S). Unit moderately silicified.	10	2	0.2
281.3	283.2	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) moderately silicious. Minor unit of Amphibolite at bottom contact from 282.85-283.2 (with minor FG(S)interbanded). Nice mm bands of pyrite along foliation. Quartz eyes throughout.	8	0.1	2
283.2	285.6	Amphibole Felsic Gneiss	green_pink	FCG	POC	Amphibolite Felsic Gneiss with one local pegmatite at 285.1-285.6m with associated reibekite in selvages. Up to 1.5cm porphyroclasts of hornblend being replaced by chlorite and biotite around the rims. Weakly potassic altered in matrix.	20	0	0.5
285.6	287.4	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor thin banding of amphibolite. Locally pegmatites (2-3cm wide) following foliation with associated po+py+cpy (about 2.5cmx1cm blebs) around 286.45m and at 287m. Silicious alteration in unit. Local garnets associated near pegmatites.	15	0.5	0.5
287.4	292.5	Amphibolite	grey_green	FMG	BND	Amphibolite (almost looks like footwall amphibolite) with very thin minor banding of Felsic Gneiss (s). Garnets up to 3mm throughout in bands and clusters. 1% qtz-carb veinlets throughout.	25	15	0
292.5	300.9	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with minor units of pegmatite. Pegmatites from 292.5-292.9m, 297.4-297.8m, 300.1-300.9m. Potassic-Sericitic alteration throughout in patches. Sillimanite replacing muscovite. Minor lenses of biotite-rich rock, one is locally epidote altered with associated po+py from 297.3-297.4 right beside pegmatite.	2	0	20
300.9	311.0	Diorite	grey_white	FCG	POR	Diorite with mm feldspar phenocrysts with a weak potassic alteration. 1%qtz-carb stringers with associated potassic-sericite alteration. Local area 301.2-301.4m with weak ser-sil alteration. Unit is moderate-strongly sil altered.	20	0	0.1
311.0	318.2	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with minor units of Ultramafic Dike (Lamprophyre), Diorite, and more Felsic Granite (G) areas (not muscovite rich). Ultramafic Dikes at 313.2-313.6m (chlorite-epidote-reibekite contact zone alteration), 315.95-316.1m. Diorite from 313.85-314.2m. Gneiss grades to a finer grained lithology down unit with associated increase of quartz-carb veinlets and stringers with associated potassic-sericite alteration. Pegmatite from 315.1-315.2m, 316.1-316.35m (slightly brecciated). Weak-moderately silicious. Local potassic alteration in gneiss.	5	0	5
318.2	321.3	Diorite	grey_white	FMG		Very potassic-hematite? altered diorite, strongly foliated, 3% qtz-carb veinlets (ptygmatic) and stringers. Alteration gets stronger down unit towards Ultramafic Dike contact. Moderate-Strongly silicious.	2	0	1
321.3	322.5	UM\LAMP Dike	green	VFG		Ultramafic Dike with fracturing and infill of quartz-epidote and hematite. Local gashes look like host rock? Dike is very baked up, aphanitic and chalky looking. Strong potassic alteration at contacts to host diorite.	0	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
322.5	330.4	Diorite	grey_white	FCG	POR	Diorite with a moderate-strong foliation. Feldspar phenocrysts have a weak-moderate potassic alteration throughout in patches. Top of unit very brecciated/fracture infilled with quartz due to ultramafic dike intrusion. Local bull quartz vein at 326.55-326.65m. Pegmatite with associated blebs of po (up to 0.5 cm long) from 327.75-327.9m. Minor Felsic Gneiss (S) unit from 328.2-328.6m.	5	0	3
330.4	338.8	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with units of pegmatite throughout as well as local units of Garnet Biotite Felsic Gneiss. Major Pegmatites from 330.4-330.95m, 333.4-334m (minor brecciated zone), 334.1-334.3m. Brecciated and infilled with silica at 333.85-334m. Garnet Biotite Felsic Gneiss from 334.3-334.5m, 334.8-335.0m. Whole unit is weak-moderately silicious. Nice veinlet of semi-massive pyrite 25% (3cm wide) at 334.7m. Local patches of potassic-sericite alteration (weak-mod).	6	1.5	25
338.8	341.1	Garnet Biotite Felsic Gneiss	grey_white	FCG		Garnet Biotite Felsic Gneiss with minor interbanding of diorite and felsic gneiss. Sulphides locally banded. Visible Gold at about 340.15-340.25m (3 less than 1mm specks) in more of a silicious pegmatite partial melt . Gold associated right along the grain boundary of a blue-quartz eyes.	30	8	3
341.1	342.1	Diorite	grey_white	FCG	POR	Diorite with feldspar phenocrysts up to mm big. Unit is locally weakly potassic-sericite altered. Lower contact has minor reibekite-chlorite alteration.	13	0	0
342.1	344.5	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with minor lenses of very sericite altered Garnet Biotite Felsic Gneiss, one unit at 342.95-343.4m. Pegmatites from 342.8-343.95m (minor py, 1%, qtz, feldspar, biotite selvages), 344.2-344.45m (2%py, 1%po, more potassic altered and bigger biotite+muscovite, more foliated). Unit locally moderately potassic altered, weak-mod silicious alt.	25	0.2	10
344.5	347.7	Garnet Biotite Felsic Gneiss	grey_white	FCG	BND	Garnet Biotite Felsic Gneiss with about 2% qtz-carb stringers with associated sericite alteration (mod). Pegmatite from 345.4-345.7m (with minor green feldspar/chlorite-epid alteration?, ~5%po, 2%py in selvages). Locally lenses of silicified pegmatite (up to 4cm wide) about 10%). Unit gets more silicified down hole towards lower contact (overprinting garnets?).	25	5	20
347.7	352.1	Pegmatite	grey_white	CG	PEG	Pegmatite/Qtz Vein. Very silicious pegmatite. Local crystals of green feldspar?/epid-chlorite alteration (about 15%). Visible Gold at 348.4m (<0.5mm speck associated at the edge of a pyrite crystal in quartz). No sharp contacts, silicious pegmatite contcat zone fades in and out. Suphides are more abundant towards upper and lower contacts and associated in fracturing of vein as well as along grain bounaries of feldspar or biotite. 1% stringers of chlorite-potassium feldspar throughout. Broken core from 348.6-350.9m associated with chlorite stringers. Local zones of strong sericite alteration in selvages/host lithology at 349.9-349.95m, 350.75-350.95m.	3	0	95
352.1	354.2	Felsic Gneiss (S)	grey_white	FCG		Silicious Felsic Gneiss (s). Pegmaties throughout. Transition zone from Pegmatites to Felsic Gneiss (S). Visible Gold at 353.6m, 1 <1mm speck inbetween some bitoite crystals along a fracture in quartz. Major pegmatite units from 352.3-352.5m, 353.15-353.3m.	15	0	40

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
354.2	357.2	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss become slightly less silicious down unit towards Ultramafic Dike intrusion. Almost a diorite, but very foliated. Pegmatites very local and no more than 4cm wide. 1%qtz-carb stringers throughout with associated chlorite. Weak carb-potassic-sericite alteration throughout (along with mod silicious).	15	0	3
357.2	358.5	UM\LAMP Dike	grey_green	VFG		Ultramafic Dike with a strong epidote-sericite alteration and very brecciated throughout. 4%carb-chlorite stringers throughout and entirely replaced and intact due to a silicious alteration. No defined contacts.	0.1	0	0
358.5	362.0	Felsic Gneiss (S)	grey_green	FG		Felsic Gneiss (S) with pegmatites throughout and a minor unit of amphibolite. Pegmatites get bigger and more pervasive down unit (with green feldspars/chl-epid alteration?). Whole unit is moderately silica altered. Pegmatites from 360.6-361m, 361.6-362m. Amphibolite from 359.25-360m (very silicious and weakly epidote altered). Trace garnets in amphibolite unit. 1% qtz-carb stringers through, not as prominent down unit.	13	0.1	30
362.0	367.2	Garnet Biotite Felsic Gneiss	grey_green	FCG		Garnet Biotite Felsic Gneiss, very silicious. Nice pyrrhotite and pyrite mineralization throughout. Lower unit is silicified pegmatite with visible gold so this is right above the ore zone.	30	20	0.5
367.2	370.4	Quartz Vein	dk grey	FCG		Silicified Garnet Biotite Gneiss? Very silicious unit. Ore host. Visible Gold at 367.55-367.9m (5 specks, 2 about 1mm, others less than 1mm), and also visible gold at 369.5m (1 speck, less than 1mm). Dark grey silicious unit with ~5% sulphides throughout. Mainly silicified gneiss, minor pegmatite. Garnets local to top of unit in clusters.	15	2	40
370.4	371.3	Diorite	grey_white	FCG	AUG	Diorite with up to 3mm feldspar phenocrysts. Local weak potassic alteration throughout, moderate chlorite alteration. Local bands of hematite alteration near bottom of contact (possibly kspar, but very red). Bottom contact has nice lithic quartz fragments augen in shape with increase of biotite and chlorite around edges, up to 5cm long, possibly just boudinaged pegmatite/qtz vein? Siliceous unit (mod-strong).	35	0	8
371.3	378.5	Pegmatite	grey_white	CG	PEG	Siliceous Pegmatite/Quartz Vein? Gold zone!!! Atleast 11 specks of visible gold through entire unit (up to 1mm big). Green feldspar/chlorite-epidote altered zones in pegmatite. Gold for the most part is associated at the grain boundary of biotite or muscovite or in fractures within quartz. Contacts aren't well defined, but irregular and semi-sharp. Hematite/potassium feldspar blebs throughout, more prevalent in upper lithology and lessens towards bottom. Chlorite altered feldspars increase down unit. Lower contact sericite altered (weakly). Ultramafic Dike (mod sericite alteration at 373.05m, 2cm). VG found at: 371.5m (1 speck, 0.5mm, associated with hem? Bleb in qtz), 371.6m (1 speck, same as previous), 372.8-372.9m (2 specks, less than 1mm), 373.7m (2 specks, 1mm each, around py crystal, and in fracture in qtz with biotite), 375m (1 speck, 0.5mm, assoc with muscovite), 375.6m (1 speck, 1mm, in fracture with biotite), 376.55m (1 speck, 1mm, bleb in qtz), 377m (1 speck, 0.5mm, in quartz).	2	0	95
378.5	385.8	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor hornblend and chlorite throughout. Trace qtz-carb stringers throughout. Bull quartz vein from 382-382.1m.	15	0	3

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
385.8	393.0	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with less biotite and amphiboles than previous unit. 1% qtz-carb stringers with sericite alteration (weak). Local sericite alteration (weak-mod), increases towards the lower contcat. Quartz eyes increase down unit. Major patchy pegmatitic unit from 391.9-392.7m.	5	0	2
393.0	394.1	Felsic Gneiss (S)	grey_green	FMG		Felsic Gneiss (S) with minor hornblend throughout, not enough to be an amphibolite. Trace qtz-carb stringers following and cross-cutting foliation. Minor pegmatites have mm blebs of associated py+po.	15	0	2
394.1	397.5	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor muscovite and weak-moderately sericite-sil altered, weak potassic. One minor pegmatite unit from 396.7-396.85m (minor green feldsapr/chl alteration?, trace stringers of qtz-carb throughout pegmatite). Qtz eyes throughout unit, but increase in size and abundance down unit.	12	0	3
397.5	420.0	Amphibolite	grey_green	FMG	POC	Footwall amphibolite with interbedded Felsic Gneiss (S) locally. One more prominent diorite interbedded unit from 418.6-419.75m. Pegmatite from 404.25-404.5m garnets, chlorite, biotite, epidote associated with qtz and feldspar). 2-3% qtz-carb stringers throughout with associated sericite-epidote alteration (weak-mod) cross-cutting foliation. Garnets porphyroclasts throughout.Minor epidote-chlorite alteration throughout. One more moderately altered sericite veined unit from 412-413.2m (qtz-carb stringer assoc.).	5	10	2

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 417	Dip of Hole At Collar -70	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 23/01/2015	Date Completed 27/01/2015	Date Logged 23/01/2015 to 27/01/2015	Logged By A. Nette	(m) degrees	(m) degrees	Property Name Borden	Easting 331614
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5303312
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	1.8	Casing				Casing			
1.8	16.3	Felsic Gneiss (S)	grey	FMG	POR	Felsic gniess with local amphibolite intervals from 2.3-2.6m and 9.6-10.4m; sharp contacts. Local pegmatite from 10.5-10.7m; quartz flooding and sulphide aggregates.		5	
16.3	22.5	Amphibolite	green	FG	BND	Amphibolite with common bands of diorite/felsic gneiss (s) in a sheared texture. Abundant sulphides throughout in disseminations and locally aggregates following foliation and fractures. Local interval of diorite from 20.5-20.8m and a local interval of fel	2		
22.5	24.8	Felsic Gneiss (S)	grey	FMG	BND	Felsic gniess with weak local foliation and occasional biotite along foliation plane which varies locally. Sharp lower contact with ultramafic dyke.	3		
24.8	27.6	UMLAMP Dike	black	FCG	POC	Ultramafic dyke with chilled margins and common xenoliths throughout.			
27.6	49.8	Diorite	grey	FMG	POR	Massive diorite with occasional patchy potassic alteration halos around veinlets and fractures.	3		
49.8	53.5	Felsic Gneiss (S)	dk grey	FG	BND	Felsic gniess with common mm-cm bands of amphibolite throughout. Disseminated pyrite local to amphibolite bands and common magnetite.	5		
53.5	57.4	Amphibolite	green	FG	VUG	Massive amphibolite with comon disseminated pyrite and ocassional carbonate vugs; mm-cm scale.	3		
57.4	76.1	Diorite	dk grey	FMG	POR	Massive diorite with occasional disseminated pyrite. Local FGS interv l with increased potassic alteration and abundant sulphides (10% locally) from 67.1-67.6m.	5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
76.1	82.3	Felsic Gneiss (S)	dk grey	FCG	POR	Moderately foliated felsic gneiss with common quartz eyes and patchy potassic alteration halos around veinlets running parallel-subparallel to core axis. Common biotite along foliation planes.	5		
82.3	85.0	Amphibole Felsic Gneiss	green	FMG	POR	Weak to moderately foliated amphibolite with slightly porphyritic texture. Abundant biotite and amphibole phenocrysts.	15		
85.0	94.1	Felsic Gneiss (S)				Moderately foliated felsic gneiss with common quartz eyes and patchy potassic alteration halos around veinlets running subparallel to core axis. Common biotite along foliation planes. Patchy dioritic texture. Minor patchy disseminated pyrite.			
94.1	100.7	Amphibolite	green	FG	VUG	Moderately foliated amphibolite with occasional calcite veins containing vugs. Minor disseminated pyrite.	3		
100.7	104.7	Felsic Gneiss (S)	grey	FCG	POR	Moderately foliated felsic gneiss with common quartz eyes and patchy potassic alteration halos around veinlets running subparallel to core axis. Common biotite along foliation planes.	2		
104.7	106.3	Amphibolite	green	FG		Moderately foliated amphibolite gradually grading into AMPG.	1		
106.3	122.8	Amphibole Felsic Gneiss	green	FCG	POR	Amphibolite with porphyritic texture and common biotite along foliation plane. Occasional short intervals of biotite felsic gneiss (BFG) from 109.1-109.7m, 112.3-112.5m, 116.4-116.60 and 122.5-122.8m. BFG contains abundant biotite-amphibole phenocrysts in	10		
122.8	129.0	Amphibolite	green	FG	BND	Moderately foliated amphibole with occasional bands of felsic gneiss. Local biotite felsic gneiss with weak pervasive potassic alteration from 126.7-127.5m.	3		
129.0	131.7	Diorite	grey	FMG	POR	Diorite with patchy potassic alteration.	2		
131.7	146.4	Felsic Gneiss (S)	grey	FCG	POR	Felsic gneiss with common quartz eyes and biotite along foliation plane. Patchy potassic alteration throughout and a local interval of pervasive alteration from 141.9-143.8m. Minor amphibolite interval from 132-132.3m containing abundant pyrite aggregate	4		
146.4	152.3	Biotite Felsic Gneiss	grey	FCG	POR	Felsic gneiss with abundant large biotite phenocrysts elongated parallel to foliation. Local ultramafic dyke from 147.8-148.50m with strongly chilled upper margin and associated alteration halo into adjacent lithology.	15		
152.3	155.8	Felsic Gneiss (S)	dk grey	FMG	BND	Felsic gneiss with occasional bands of more dioritic texture and minor disseminations of euhedral fine-grained pyrite. Gradational lower contact.	4		
155.8	160.3	Diorite	dk grey	MG	POR	Massive diorite with patchy local potassic alteration along veinlets. Local massive quartz-sulphide vein from 159.7-159.9m; irregular margins and cm scale pyrite aggregates along vein selvage.	5		
160.3	161.4	Felsic Gneiss (S)	grey_green	FG	BND	Felsic gneiss with moderate to strong foliation and local banding of DIO and AMP throughout. Common sulphide aggregates along foliation planes.	2		
161.4	163.3	Amphibolite	green	FG	VUG	Moderately foliated amphibolite with common pyrite along foliation planes in fine disseminations and minor aggregates. Rare carbonate vugs.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
163.3	188.8	Felsic Gneiss (S)	grey	FMG	POR	Felsic gniess with moderate foliation, rare biotite along foliation, trace potassic alteration halos around local veinlets. Minor interval of pegmatite from 170.6-170.7m and associated epidote alteration halo from 170.1-170.7m. Minor and local amphibolite	3		2
188.8	199.6	Amphibole Felsic Gneiss	green	FCG	POR	Moderately foliated amphibolite with abundant amphibole and biotite phenocrysts elongate to foliation planes. Phenocryst diameter appears to decrease gradually downhole.	10		
199.6	207.0	Felsic Gneiss (S)	grey	FMG	POR	Weak to moderately foliated felsic gniess with occasional quartz phenocrysts. Patchy potassic alteration halos around veinlets. Local ultramafic dyke intersected from 205.1-205.6m containing a chilled lower margin and common mm scale xenoliths near contact.	2		
207.0	211.4	UMLAMP Dike	black	FMG	POC	Ultramafic dyke with chilled margins and mm scale xenoliths throughout. Minor carbonate veinlets running parallel-subparallel to core axis.			
211.4	214.6	Felsic Gneiss (S)	grey	FCG	PEG	Weakly foliated felsic gniess with minor and local pegmatite intervals intersected from 212.88-212.95m and 213.7-213.95m containing localized potassic and epidote alteration.	2		5
214.6	216.2	Amphibolite	grey_green	FG	BND	Amphibolite with gradational and banded contacts containing more biotite along foliation planes.	2		
216.2	238.0	Felsic Gneiss (S)	grey	FMG	BND	Weak to moderately foliated felsic gniess with local amphibolite banding near upper contact and patchy alteration bands throughout. Massive quartz vein from 217.40-217.70m with common biotite alteration halos on margins.	3		2
238.0	239.0	Amphibolite	green	FG	BND	Minor unit of amphibolite with patcy potassic alteration.	2		
239.0	245.0	Felsic Gneiss (S)	grey_green	FMG	BND	Weak to moderately foliated felsic gniess with common banding of amphibolite lenses and potassic alteration. Massive quartz vein from 241.2-241.4m with weak potassic alteration on vein selvages. Local interval of amphibolite from 244.48-244.56m.	3		
245.0	246.8	Amphibolite	green	FG		Moderate to well foliated amphibolite; sharp contacts parallel to foliation.	3		
246.8	259.2	Felsic Gneiss (S)	grey_green	FMG	BND	Mostly felsic gniess with increasing biotite alteration towards lower contact, increased amphibolite banding and occasional amphibole phenocrysts. Common massive quartz veining from 246.8-248.8m; 5-20cm in thickness and irregular margins.	5		
259.2	262.1	Diorite	grey	FCG	POR	Weak to moderately foliated diorite with a local interval of pegmatite from 259.7-259.85m.	5		5
262.1	268.9	Felsic Gneiss (S)	grey	FCG	PEG	Felsic gniess with common biotite along foliation planes, moderate foliation and weak patchy potassic alteration halos around veinlets. Local interval of amphibolite from 263.6-264m; medium grained and contacts parallel to foliation trend.	5		5
268.9	270.9	Amphibolite	green	FG	BND	Amphibolite with moderate foliation, minor and local band of epidote alteration and slight felsic banding.			
270.9	272.0	Diorite	grey	FMG	POR	Weak to moderately foliated diorite with minor biotite along foliation plane and quartz phenocrysts.			

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
272.0	274.2	Amphibolite	green	FG	BND	Ampibolite with occasional felsic bands containing abundant biotite. Local massive quartz-sulphide vein from 273.7-274m with lithic fragments and coarse aggregates of PY/Po.	4		
274.2	279.8	Felsic Gneiss (S)	grey	FMG	PEG	Felsic gniess with biotite alteration along foliation planes and local banding of increased alteration. Local interval of amphibolite from 275.5-276.3m. Interval of interfingered pegmatite from 276.3-277.7m with bands up to 30cm.	7		10
279.8	280.7	Amphibolite	green	FG	BND	Moderately foliated amphibolite with occasional sulphide bands along foliation planes.	2		
280.7	282.2	Diorite	grey	FMG	POR	Moderately foliated diorite with common biotite along foliation planes and quartz phenocrysts. Local massive quartz vein from 283.4-283.5m; unmineralized.	7		
282.2	289.7	Felsic Gneiss (G)	grey_green	FCG	BND	Moderate to strongly foliated felsic gniess with patchy and strong biotite alteration. Local mafic banding and biotite banding increasing towards lower contact. Local interval of pegmatite interfingering from 283.5-284.5m with patchy potassic, epidote alteration.	10	1	10
289.7	293.5	Amphibolite	grey_green	FG	BND	Amphibolite with common felsic bands and associated abundant biotite alteration. Local bands of red garnet aggregates.	15	2	
293.5	300.6	Felsic Gneiss (G)	green_pink	FCG	MELT	Felsic gniess (g) with abundant sillimanite, muscovite and biotite throughout. Local pegmatite interfingering and minor amphibolite interval from 296.9-297.25m. Strongly altered, strained and appears recrystallized.	10	1	5
300.6	303.3	Pegmatite	green_pink	VCG	PEG	Pegmatite with patchy epidote and potassic alteration; occasional biotite crystals and local interval of FG from 302.85-303m. Patchy aggregates of Py/Po. Occasional quartz flooding.	5	0	
303.3	305.5	Diorite	red	FMG	POR	Moderately foliated diorite with pervasive potassic alteration and common amphibole-biotite alteration along foliation planes; quartz phenocrysts.	10		
305.5	308.4	Pegmatite	green_pink	VCG	PEG	Pegmatite with patchy biotite-muscovite alteration; fine-coarse grained crystals. Very silicious and trace fine-medium grained sulphides associated with local biotite.	4	0	100
308.4	314.7	Diorite	red	FMG	POR	Diorite with moderate to strong and pervasive potassic alteration. Local intense interval of sericite-epidote alteration from 309.4-310.3m that appears to be a chilled margin and contains common pegmatite bands.	4		5
314.7	318.4	Felsic Gneiss (G)	grey_green	FCG	BND	Felsic gniess with rare-common muscovite-sillimanite alteration and common biotite parallel to foliation planes. Local interval of pegmatite from 316.4-316.7m with common biotite-muscovite. Massive quartz-sulphide vein from 316.9-317.1m with common cgr Py.	7	2	10
318.4	319.0	Quartz Vein	grey_white	FG	BND	Massive smokey quartz vein with abundant biotite-pyrite-pyrrhotite aggregates along vein selvages. Deformed contacts and occasional muscovite grains. High potential for mineralization but no visible gold observed.	20		
319.0	320.8	Garnet Biotite Felsic Gneiss	dk grey	FMG	BND	Well foliated garnet-biotite felsic gniess with abundant biotite-muscovite and trace garnets. Common sericitic alteration along foliation and minor deformed quartz veining with common pyrite aggregates.	20	2	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
320.8	326.8	Felsic Gneiss (G)	dk grey	FMG	BND	Moderate to strongly foliated felsic gneiss with common biotite-muscovite-sillimanite. Weaker alteration from 323.95-325.8m and spotty epidote alteration from 325.8-326.8m. Local pegmatite from 320.95-321.2m and 324.8-325.1m.	10	2	5
326.8	331.2	Pegmatite	green_pink	VCG	PEG	Pegmatite with spotty potassic and epidote (chlorite?) alteration and occasional muscovite-biotite grains.	5	0	
331.2	333.1	Diorite	red	FMG	POR	Massive diorite with pervasive potassic alteration, quartz/feldspar phenocrysts and a mafic (amphibole?) groundmass.	2	0	0
333.1	350.4	Felsic Gneiss (G)	pink	FMG	BND	Felsic gneiss with variable texture and alteration intensity. Common biotite-muscovite-sillimanite and patchy potassic staining. Variable strain and foliation intensity.	5	0.1	2
350.4	355.0	Diorite	red	FMG	POR	Massive interval of diorite; similar to previous but weaker alteration intensity.	1		
355.0	357.8	Felsic Gneiss (S)	grey	FG	BND	Felsic gneiss with weak to moderate foliation and biotite alteration along foliation planes. Local white quartz vein from 356.95-357.10m; no associated mineralization.	4		
357.8	360.1	UMLAMP Dike	black	FMG		Local ultramafic dyke with sharp margins and minor fine-medium grained rounded xenoliths.			
360.1	369.8	Garnet Biotite Felsic Gneiss	grey	FMG	BND	garnet-biotite felsic gneiss with very abundant biotite and common garnet aggregates along strong foliation planes. Common quartz flooding/veining and local sheared amphibolite from 364.6-365.3m healed with quartz.	25	7	0
369.8	370.7	UMLAMP Dike	black	FG		Local ultramafic dyke with slight brecciated texture and carbonate fill,			
370.7	371.6	Felsic Gneiss (G)	grey	FMG	BND	Well foliated felsic gneiss with local pegmatite from 371.5-371.6m. Pyrite disseminations throughout.	5		10
371.6	373.1	UMLAMP Dike	black	FG		Ultramafic dyke with brecciated texture and carbonate fill. Sharp contacts.			
373.1	375.3	Felsic Gneiss (G)	grey	FMG	POR	Well foliated felsic gneiss with local dioritic texture. Pegmatite intervals from 374.4-374.8m with associated biotite banding. Gradation lower contact with increasing biotite alteration.	10		20
375.3	377.0	Garnet Biotite Felsic Gneiss	dk grey	FMG	BND	Well foliated garnet-biotite felsic gneiss with common disseminations and local bands of pyrite parallel to foliation planes. Gradational lower contact with increasing quartz banding, biotite, and Py/Po.	25	2	
377.0	378.5	Quartz Vein	grey_black	FCG	BND	Quartz-sulphide vein with abundant biotite alteration and Py/Po aggregates. Three small specks of visible gold from 377.8-378.1m where quartz increases. Banded and sheared texture throughout and slight pegmatitic texture towards lower contact.	40	0	
378.5	385.0	Felsic Gneiss (G)	grey	FMG	BND	Moderately foliated felsic gneiss with common pegmatite intercalations and weak potassic alteration. Local dioritic texture from 384-384.6m.	5	0.5	5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
385.0	387.0	Felsic Gneiss (S)	grey_green	FG	BND	Moderately foliated felsic gneiss with minor-common biotite alteration parallel to foliation plane. Local greenish banding; possibly minor amphibolite.	6	0	0
387.0	390.7	Biotite Felsic Gneiss	grey_black	FCG	PEG	Intensely biotite altered gneiss with abundant aggregates and disseminations of Po/Py and local pegmatic intervals/quartz flooding.	45	0	10
390.7	392.7	Felsic Gneiss (S)	grey_green	FG	BND	Well foliated felsic gneiss with common greenish banding and biotite parallel to foliation plane. Patchy pegmatic interval from 391-391.3m.	10	0	10
392.7	399.8	Pegmatite	green_pink	VCG	PEG	Pegmatite with minor banding of FGS with biotite alteration along local foliation planes. Patchy chlorite/epidote alteration.	5		
399.8	415.5	Amphibolite	green	FMG	BND	Footwall amphibolite with common banded aggregates of fine-medium grained red garnets. Occasional greyish banding and common carbonate veinlets. Occasional Po/Py aggregates along foliation planes and within small quartz veins near lower contact with diorite.	3	5	0
415.5	417.0	Diorite	grey	FMG	POR	Massive diorite with decreasing biotite alteration and patchy sulphides associated with local quartz vein near upper contact with amphibolite.	2		

Drilling Company Major	Core Size NQ	Collar Elevation (m) 430	Bearing of Hole from true North 205	Total Depth (m) 381	Dip of Hole At Collar -45	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 24/01/2015	Date Completed 27/01/2015	Date Logged 24/01/2015 to 27/01/2015	Logged By I. Therriault	(m) degrees	(m) degrees	Property Name Borden	Easting 331564 Northing 5303338 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.6	Casing							
3.6	12.4	Diorite	grey	FMG	MELT	Diorite. Localised melt textures. Minor vugs. Core is weakly jointed. 0.3% pyrite.	1		
12.4	15.9	Amphibolite	green	FMG		Amphibolite. Includes minor diorite 14.15-14.55m. 0.5-2% pyrite and locally up to 0.5% pyrrhotite.	1		
15.9	16.7	Diorite	grey	FMG	MELT	Diorite. Trace pyrite.	1.5		
16.7	18.9	Amphibolite	green	FMG		Amphibolite. Core is fractured. Minor vugs. 1% pyrite.	1		
18.9	23.8	Diorite	grey	FMG		Diorite. 1% pyrite and 0.2% pyrrhotite.	2		
23.8	26.9	Amphibolite	green	FMG		Amphibolite. 0.4% pyrite.	1		1
26.9	31.4	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. Includes altered diorite (29.55-30m, low angle). Trace pyrite.	1.5		
31.4	36.4	Diorite	grey	FMG	MELT	Diorite. Biotite content is variable. 1% pyrite.	3		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
36.4	40.1	Amphibolite	green	FMG		Amphibolite. Locally magnetic. Minor diorite 36.8-37.05m. 2.5% pyrite and 1% pyrrhotite.	1		
40.1	41.0	Diorite	grey	FMG		Diorite. Minor vugs. 1% pyrite, 0.3% pyrrhotite.	1		
41.0	43.0	Amphibolite	green	FMG		Amphibolite. Locally magnetic. 2% pyrite, 0.3% pyrrhotite.	3		
43.0	46.1	Quartz Feldspar Porphyry (QFP)	grey	FCG	POR	QFP. Trace pyrite.	2		
46.1	49.2	Diorite	grey	FMG		Diorite. Amphibole-rich intervals with 1-4% pyrite, otherwise 0.3% pyrite.			
49.2	52.4	Amphibolite	green	FMG		Amphibolite. Locally weakly foliated. Includes minor diorite 50.1-50.55m and 51.15-51.25m. Minor vugs. 2% pyrite.			
52.4	72.5	Diorite	grey	FMG	MELT	Diorite. Massive to locally weakly foliated. Minor vugs. Fairly homogeneous. 0.4-2% pyrite.	2		
72.5	77.1	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amphibole felsic gneiss, moderate to strong fabric throughout. Diopside-rich pegmatites found between 74.75-75.3m and containing minor pyrite and pyrrhotite.	10		3
77.1	85.1	Diorite	grey	FMG		Diorite. Minor vugs. 0.4% pyrite.	2		
85.1	85.7	UMLAMP Dike	dk grey	FMG		Lamprophyre dyke. Light green chilled margin on both sides. No visible sulphides.	2		
85.7	93.3	Diorite	grey	FCG		Diorite. Very altered, several ultramafic dykelets. Heterogeneous unit: quartz eyes between 88.8-89.25m; 91.4-91.95m looks like felsic portions that sometimes occur in AMPG, cm-scale up to 35cm large sections of amphibolite between 92.0-93.15m. 0.2% pyrite.	0.5		
93.3	102.2	Felsic Gneiss (S)	grey	FCG		FG(s). A few quartz eyes and localised foliation, so unit called FG(s). 101.6-101.9m is same felsic portion of AMPG as seen in unit above. Trace up to 0.5% pyrite.	1.5		1
102.2	104.3	Amphibolite	green	FG		Amphibolite. Trace pyrite.	2		
104.3	105.5	Diorite	grey	FG		Diorite. Minor vugs. 0.2% pyrite plus bleb at end of unit.	1		
105.5	106.7	Amphibolite	green	FMG		Amphibolite. Trace pyrite.	2		
106.7	109.8	Felsic Gneiss (S)	grey	FMG	VUG	FG(s). Includes minor amphibolite (108.4-108.7m). Trace up to 0.5% pyrite.	2		
109.8	110.6	Amphibolite	green	FMG		Amphibole-poor amphibolite. Minor vugs. No visible sulphides.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
110.6	120.7	Diorite	grey	FCG		Diorite, locally FG(s) looking. Minor vugs. Massive to locally weakly foliated. Lamprophyre dykelets at low angle in lower 1m of unit. 0.4% pyrite.	2		5
120.7	129.4	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	1		
129.4	135.5	Diorite	grey	FMG		Diorite. Massive to locally weakly foliated. Minor vugs. 0.75% pyrite.	1		2
135.5	136.6	Amphibolite	green	FMG		Amphibolite. Trace up to 0.3% pyrite.	1.5		
136.6	138.0	Pegmatite	pink	FCG		Pegmatite with very coarse grained biotite. 0.2% pyrite.	7		100
138.0	141.1	Amphibolite	green	FMG		Amphibolite. Trace pyrite.	2		2
141.1	149.1	Diorite	grey	FG		Diorite. Locally altered. Includes minor amphibolite 146.6-147.3m. Up to 3% pyrite.	0.5		
149.1	150.8	UM\LAMP Dike	dk grey	FG		Lamprophyre dyke. No visible sulphides.	1		
150.8	157.0	Felsic Gneiss (S)	grey	FMG		FG(s). Includes minor amphibolite 151.7-152.1m. Minor quartz eyes. Trace up to 0.4% pyrite.	1.5		
157.0	159.2	Amphibolite	green	FMG		Amphibolite. 0.4% pyrite.	0.5		
159.2	161.1	Diorite	grey	FMG		Diorite. Minor vugs. Massive to locally weakly foliated. Trace pyrite.	2		
161.1	165.6	Amphibolite	green	FG		Amphibolite. Near lower contact cm-scale intervals of diorite. 0.5% pyrite.	1		
165.6	168.9	Diorite	grey	FG		Diorite. Altered. Contains minor amphibolite 168.55-168.85m with 2% pyrite. Biotite varies between 1-4% (cm-scale sections with up to 4%). Minor vugs. 0.3% pyrite.	2		5
168.9	171.0	Quartz Feldspar Porphyry (QFP)	grey	FCG		QFP. Minor vugs. No visible sulphides.			
171.0	176.2	Amphibolite	green	FMG		Amphibolite. Magnetic (5). Contains minor FG(s) 171.0-171.45m and 174.1-174.35m. 0.3-1% pyrite.	1.5		2
176.2	179.9	Diorite	grey	FG		Diorite, becomes gradually more FG(s) looking around 179m. Minor vugs. Locally up to 1.5% pyrite.	1		1
179.9	181.7	Quartz Vein	lt grey	FCG		Series of quartz veins in interval with 15cm and 8cm large sections of FG(s). Trace pyrite; moly between 181.45-181.55m.	3		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
181.7	197.7	Felsic Gneiss (S)	grey	FG		FG(s). Heterogeneous, localised diorite-looking intervals, becomes gradually more FG(s) looking with better foliation towards end of unit. 1% pyrite in upper 10cm but otherwise not more than 0.4%.	0.5		3
197.7	198.7	Diorite	grey	FCG		Diorite. Potassic altered feldspars in amphibole-rich matrix. Trace pyrite.	2		
198.7	199.9	Felsic Gneiss (S)	red	FG		Altered FG(s) (or other lithology). Moderate-strong pervasive potassic alteration. Trace pyrite.	0.2		20
199.9	200.5	Diorite	grey	FCG		Diorite, similar to 197.7-198.65m, potassic altered feldspars in amphibole-rich matrix. Trace pyrite.	0.5		
200.5	203.0	Felsic Gneiss (S)	red	FG		Altered FG(s) (or other lithology), similar to 198.65-199.9m. Moderate pervasive potassic alteration. Trace pyrite.	0.3		20
203.0	204.0	UM\LAMP Dike	green	FG		Ultramafic dyke, greyish green. Trace pyrite.			
204.0	221.2	Felsic Gneiss (S)	grey	FG		FG(s). Locally strongly altered. Minor vugs. 0.2% pyrite.			4
221.2	225.0	Amphibolite	grey_green	FMG		Amphibole-poor amphibolite; cm-scale amphibole-rich bands near upper contact. FG(s) between 221.55-221.85 and 224.5-224.85m. Trace up to 0.4% pyrite.	1		2
225.0	234.7	Felsic Gneiss (S)	grey	FCG		FG(s). Altered (potassic and sericitic). A few quartz eyes. Trace up to 0.4% pyrite and trace pyrrhotite.	2		5
234.7	235.1	UM\LAMP Dike	dk grey	FMG		Ultramafic dyke. No visible sulphides.	0.2		
235.1	237.6	Diorite	grey	FMG		Diorite. Altered down to 237m, varying intensity. Interval 235.2-236.2m is much finer grained. Trace pyrite.	2		
237.6	238.2	Felsic Gneiss (S)	grey	FMG		FG(s). 0.6% pyrite	0.3		
238.2	239.7	Amphibolite	grey_green	FMG		Amphibole-poor amphibolite with FG(s) with quartz eyes between 238.45-238.65m; 239.25-239.65m is propably FG(s). Up to 5% pyrite and 1% pyrrhotite.			
239.7	240.9	UM\LAMP Dike	dk grey	FG		Lamprophyre dyke. No visible sulphides.	0.2		
240.9	242.5	Amphibolite	grey_green	FMG		Amphibole-poor amphibolite, with higher concentrations of amphiboles occurring as mm to cm-scale patches. Total 0.5% pyrite and pyrrhotite.	3		7
242.5	247.7	Felsic Gneiss (S)	grey	FMG		FG(s). 0.6% pyrite and trace pyrrhotite.	1		
247.7	248.7	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke.	0.3		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
248.7	264.5	Felsic Gneiss (S)	grey	FG		FG(s). Larger pegmatites 254.6-254.95m and 255.35-255.65m. Trace up to 1.5% pyrite, trace pyrrhotite.	0.5		15
264.5	265.3	UM\LAMP Dike	dk grey			Lamprophyre dyke. No visible sulphides.	0.5		
265.3	266.5	Pegmatite	grey	FCG		Pegmatite, FG(s) near end of unit (266.35-266.45m). Total 0.6% pyrite and pyrrhotite.	1		90
266.5	269.8	Amphibolite	grey_green	FMG		Amphibole-poor amphibolite. Magnetic (4). Contains what looks like altered diorite 268.3-269.1m with 0.3% pyrite. Lamprophyre dykelet lens 267.95-268.15m. Up to 1.5% pyrite and 0.3% pyrrhotite.	2	0.1	
269.8	277.6	Diorite	grey	FMG		Diorite. Contains minor FG(s) (273.8-274.35m). Localised weak fabric. 0.6% pyrite, increases to 2% near lower contact.			
277.6	283.5	Felsic Gneiss (S)	grey	FCG		FG(s). Locally altered (sericite and potassic). Up to 1% pyrite and 0.3% pyrrhotite.	1.5		25
283.5	284.5	Diorite	grey	FMG		Altered diorite, the one that looks like amphiboles on potassic altered matrix. 0.3% pyrite.	1.5		
284.5	286.1	Felsic Gneiss (S)	grey	FG		FG(s) but includes cm-scale intervals of altered diorite between 285.45-285.75m. 1.5% pyrite.	1.5		2
286.1	286.8	Diorite	grey	FMG		Diorite, similar to 283.5-284.5m. 0.5% pyrite.	0.5		
286.8	290.6	Felsic Gneiss (S)	grey	FG		FG(s). 2% pyrite and 0.3% pyrrhotite. *start full sampling at 288.6m.	1.5		
290.6	296.6	Felsic Gneiss (G)	pink	FCG		FG(g). 0.5% pyrite.	1		10
296.6	297.5	Diorite	grey	FMG		Diorite. Trace pyrite.	2		
297.5	302.6	Felsic Gneiss (G)	pink	FCG		FG(g). Trace pyrite and pyrrhotite.	1.5		5
302.6	304.9	Felsic Gneiss (S)	grey	FG		FG(s). Total 0.6% pyrite and pyrrhotite.	2		10
304.9	305.9	Diorite	grey	FMG		Altered diorite. Upper and lower contacts are altered, so looks gradational into units above and below. 1% pyrite.	2		
305.9	308.3	Felsic Gneiss (G)	grey	FMG		FG(g). 0.2% pyrite and 0.5% pyrrhotite.	2		
308.3	309.3	Diorite	grey	FG		Note: diorite 308.3-308.85m with 1% pyrite and quartz vein 308.85-309.3m.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
309.3	314.8	Felsic Gneiss (G)	pink	FCG		FG(g). Includes minor diorite (310.05-310.35m). Total 1% pyrite and pyrrhotite.	2		5
314.8	315.8	UM\LAMP Dike	green	FG		Series of light green ultramafic dykes, one is lamprophyre. 0.3% pyrite.			
315.8	323.9	Felsic Gneiss (G)	pink	FCG		FG(g). Up to 4% pyrite and 1% pyrrhotite.	1	0.1	10
323.9	329.4	Felsic Gneiss (S)	grey	FG		FG(s) (or could be altered remnant GBFG; there is lots of biotite but no garnets were noticed). Ultramafic dykelet near lower contact (328.95-329.35m). Most pegmatites occur between 327.65-328.95m. Up 5% pyrite.	4		20
329.4	341.5	Felsic Gneiss (G)	pink	FCG		FG(g). Minor fracturing, faulting and brecciation in interval 329.35-334.5m. Up to 0.7% pyrite.	0.2		7
341.5	343.2	UM\LAMP Dike	grey	FMG		Lamprophyre dyke. Trace pyrite.	2		
343.2	346.3	Felsic Gneiss (S)	grey	FG		Very altered, so unknown lithology. Somewhat similar to 323.85-329.35m but more altered, more muscovite, less biotite, less pyrite, better foliated. More like a FG(g) down to 348.8m. Foliated, locally crenulated. Minor UM dykelets 344.15-344.45m. 0.2% pyr	2		2
346.3	347.5	Pegmatite	green	FCG		Pegmatite (not 100%, contains a minor lithology, FG(s)??, same as the one found just downhole, with 1.5% pyrite. White and green, either the green feldspar or epidote or chlorite alteration.	3		70
347.5	348.6	Felsic Gneiss (S)	grey	FMG		FG(s); looks like a GBFG because of the amount of biotite, but lacks garnets. Pegmatites are mostly mm-scale up to a few cm large veins and veinlets with the green alteration/mineral as seen in pegmatite uphole. Up to 3% pyrite and 1% pyrrhotite.	15		5
348.6	349.3	Pegmatite	white	FCG		Looks more like a recrystallised quartz vein with a smooth, slightly sugary texture but also contains the green mineral/alteration seen above. Trace pyrite, mostly associated with biotite.	2		95
349.3	349.9	Felsic Gneiss (S)	grey	FCG		FG(s), similar to unit above at 347.5-348.55m	12		15
349.9	350.9	Pegmatite	white	FCG		Pegmatite, has this similar smooth/slightly sugary texture as the one in 348.55349.3 but a lot more biotite. 0.3-3% pyrite.	7		95
350.9	352.9	Felsic Gneiss (S)	grey	FG		FG(s). 0.2% pyrite.	2		3
352.9	353.7	Diorite	grey	FMG		Diorite. 0.3% pyrite.	2		20
353.7	359.8	Pegmatite	beige	FCG	PEG	Pegmatite with green patchy alteration. 0.2% pyrite and 0.2% pyrrhotite. *expected higher grade but not much in terms of sulphides, no VG.	2		100
359.8	364.8	Diorite	grey	FMG		Diorite. Locally foliated, grainsize varies across. Minor vugs. 0.2% pyrite.	2		1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
364.8	371.4	Felsic Gneiss (S)	grey	FG		FG(s). Locally up to 1% combined pyrite and pyrrhotite.	2		20
371.4	381.0	Amphibolite	grey	FCG		Footwall amphibolite. FG(s) between 372.05-373m. Up to 2% pyrrhotite as clusters, trace pyrite. EOH=381m.	1	5	

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 397	Dip of Hole At Collar -75	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 25/01/2015	Date Completed 29/01/2015	Date Logged 25/01/2015 to 29/01/2015	Logged By N. Lintner	(m) degrees	(m) degrees	Property Name Borden	Easting 331522 Northing 5303363 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.9	Casing							
2.9	4.1	Diorite	grey	FG	POR		3	0	0
4.1	7.4	Amphibolite	green	FG			12	0	0
7.4	13.7	Diorite	grey	FMG	POR	Amphibolite at 7.1-7.m nd 7.8-8.0m.	5	0	0
13.7	20.3	Amphibolite	green	FMG			10	0	0
20.3	27.2	Amphibolite	green	FG		Same unit as surrounding but becomes much finer grained.	10	0	0
27.2	35.4	Amphibolite	green	FMG		Diorite at 27.5-28.1m and 33.3-33.5m.	10	0	0
35.4	41.1	Diorite	grey	FMG	POR	Porphyritic texture is poorly defined in some small sections. Lacks foliation. Amphibolite at 35.8-36.0m, 39.3-39.8m. Quartz vein at 39.0-39.1m.	15	0	0
41.1	43.2	Quartz Feldspar Porphyry (QFP)	grey	FCG	POR		15	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
43.2	51.4	Diorite	grey	FG	POR	Amphibolite at 43.1-43.3m and 43.5-43.8m. Heavily altered sections. Porphyritic texture is poor in a lot of sections due to alteration. Lower contact is broken up.	12	0	0
51.4	52.1	UM\LAMP Dike	green	FG			5	0	0
52.1	52.8	Quartz Vein	white	FG			0	0	0
52.8	62.8	Diorite	grey	FMG	POR	Becomes finer grained between 56.1-58.4m. Irregular pegmatite at 57.1-57.2m.	5	0	2
62.8	79.7	Felsic Gneiss (S)	grey	FCG	POB	2-5% coarse grained quartz eyes. Quartz vein at 67.7-67.9m.	3	0	2
79.7	82.9	UM\LAMP Dike	dk grey	FG			0	0	0
82.9	96.0	Felsic Gneiss (S)	grey	FMG	POB	1-2% coarse grained quartz eyes.	4		2
96.0	100.3	Diorite	grey	FMG	POR	Localized sections of foliated Felsic Gneiss (S).	4	0	1
100.3	107.2	Felsic Gneiss (S)	grey	FG		Localized sections of diorite.	10	0	0
107.2	110.3	Diorite	grey	FMG	POR	Localized sections of foliated Felsic Gneiss (S) at 108.7-109.1m and 109.4-109.6m	5	0	0
110.3	112.7	Amphibole Felsic Gneiss	green	FCG	POB	Coarse grained amphibolite porphyroblasts, surrounded by biotite, in a fine grained felsic matrix.	20	0	0
112.7	114.5	Felsic Gneiss (S)	grey	FMG			3	0	0
114.5	117.8	Amphibole Felsic Gneiss	green	FCG	POB	Coarse grained hornblende porphyroblasts, surrounded by biotite, in a fine grained felsic matrix.	20	0	0
117.8	120.1	UM\LAMP Dike	dk grey	FG		Massive	3	0	0
120.1	126.6	Amphibole Felsic Gneiss	green	FCG	POB		12	0	0
126.6	128.2	Diabase Dike	black	VFG			0	0	0
128.2	132.7	Amphibole Felsic Gneiss	green	FCG	POB		20	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
132.7	141.1	Felsic Gneiss (S)	red	FG		Localized sections with dioritic textures. Diorite at 138.4-138.7m. Heavily altered.	3	0	0
141.1	143.1	Diorite	grey	FMG	POR	Localized foliated sections that still retain a porphyritic texture. Lower contact is in rubble. Grey with red sections.	3	0	1
143.1	144.4	Amphibolite	green	FMG			12	0	0
144.4	147.0	Felsic Gneiss (S)	grey	FCG	POB	1-3% coarse grained quartz eyes.	5	0	0
147.0	148.4	Amphibolite	green	FMG		Biotite rich section of pegmatite at 147.4-147.6m. Felsic Gneiss (S) at 147.9-148.2m.	15	0	5
148.4	150.4	Diorite	grey	FMG	POR		3	0	10
150.4	153.9	Amphibolite	green	FMG		Ultramafic Amphibolite. Quartz rich section with semi-massive pyrite at 150.6-150.7m. Pegmatite at 151.9-152.0m. Section of Felsic Gneiss (S) at 153.4-153.7m.	15	0	2
153.9	155.2	Felsic Gneiss (S)	red	FG		Most of the unit is very blocky and has some rubble sections. Contains some small blocks of the surrounding amphibolite unit but cannot get any measurements off of them.	3	0	0
155.2	162.4	Amphibolite	green	FG			5	0	0.2
162.4	167.8	Felsic Gneiss (S)	grey	FG		Localized, thin sections of diorite. Sections of amphibolite at 166.4-166.6m and 166.9-167.2m.	5	0	0.2
167.8	174.3	Amphibolite	green	FG	BND	Small section of Felsic Gneiss (S) at 172.8-173.1m. Weak banded appearance due to the epidote alteration.	10	0	0
174.3	178.7	Felsic Gneiss (S)	grey	FMG		Quartz vein at 175.3-175.6m. Sections of Amphibolite at 174.9-175.1m and 177.5-177.8m. Siliceous and epidote altered section at 176.7-177.7m.	7	0	0
178.7	179.4	Amphibolite	green	FG			10		0
179.4	180.5	Felsic Gneiss (S)	grey	FMG			12	0	25
180.5	183.1	Amphibolite	green	FG	BND	Section of Felsic Gniess (S) at 181.2-181.6m.	10	0	0
183.1	187.7	Felsic Gneiss (S)	grey	FG		Pegmatite at 185.7-185.9m and 186.0-186.3m.	15	0	5
187.7	198.7	Felsic Gneiss (S)	grey	FG		Similar to previous unit but not as strongly foliated and contains less biotite. Contains sections with 1-2% coarse grained quartz eyes. Sections of Amphibolite at 191.6-191.9m, 192.2-192.3m, 192.5-192.6m, 193.4-193.8m, and 194.7-194.8m.	7	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
198.7	201.8	Diorite	red	FCG	POR		15	0	0
201.8	205.4	Pegmatite	pink	CG		Section of diorite at 204.6-204.9m.	1	0	98
205.4	208.3	Felsic Gneiss (S)	red	FMG			5	0	3
208.3	209.1	Amphibolite	green	FG			5	0	0
209.1	212.4	Felsic Gneiss (S)	grey	FG		Amphibolite at 211.2-211.5m.	3	0	0
212.4	213.2	Amphibolite	green	FMG			15	0	0
213.2	217.7	Felsic Gneiss (S)	grey	FG			3	0	0
217.7	221.3	Amphibolite	green	FG			15	0	0
221.3	224.3	Felsic Gneiss (S)	grey	FMG			15	0	0.5
224.3	226.0	Diorite	red	FCG	POR	Well developed diorite with sharp contacts.	20	0	0
226.0	245.5	Felsic Gneiss (S)	grey	FG		Variable alteration, some intense. Exhibits some red and beige sections dependant on the alteration. Pegmatite at 243.0-243.1m.	3	0	2
245.5	246.2	Amphibolite	green	FMG			12	0	0.1
246.2	253.3	Felsic Gneiss (S)	grey	FG		Localized sections that have a red colour due to alteration.	3	0	2
253.3	257.6	Felsic Gneiss (S)	grey	FCG	POB	Similar to previous unit but contains 2-5% coarse grained quartz eyes. Biotite rich section from 253.5-254.0m.	3	0	1
257.6	258.2	Amphibolite	green	FG			15	0	0
258.2	259.6	Felsic Gneiss (S)	grey	FCG	POB	1-3% coarse grained quartz eyes.	3	0	1
259.6	260.8	Amphibolite	green	FG	BND	Alternating bands with variable hornblende content defining the banded texture.	10	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
260.8	261.6	Felsic Gneiss (S)	grey	FG	BND	Banding is defined by biotite rich bands with local concentrations up to 20%. Bands contain up to 2% fine grained hornblende.	12	0	0
261.6	263.4	Diorite	grey	FMG	POR	Quartz vein at 263.0-263m. Biotite content decreases slightly down unit.	7	0	0.5
263.4	266.0	Amphibolite	green	FG	BND	Minor unit of diorite at 263.9-264.5m.	10	0	0
266.0	267.5	Diorite	grey	FMG	POR	Becomes more well developed and strongly altered after 266.8m.	8	0	2
267.5	268.4	Amphibolite	green	FG			20	0	5
268.4	272.4	Diorite	grey	FMG	POR	Pegmatite at 270.0-270.2m. Porphyritic texture is well developed but contacts are gradational (begins as more of a Felsic Gneiss (S) but grades into a diorite).	10	0	2
272.4	273.5	Felsic Gneiss (S)	grey	FCG	POB	1-2% coarse grained quartz eyes. Moderately altered.	3	0	0.2
273.5	276.1	Amphibolite	green	FG		Thin section of Felsic Gneiss (S) at 274.3-374.5m.	10	0	0
276.1	277.8	Amphibolite	beige	FG		Intensely altered. All original structure and texture have been destroyed. Unit is brecciated and weakly quartz-carbonate flooded. Large quartz vein at 277.4-277.7m. Colour ranges from beige to a bright red depending on alteration.	1	0	0
277.8	279.5	Amphibolite	grey	FMG	BND		15	0	0
279.5	283.0	Diorite	red	FMG	POR	The porphyritic texture becomes more well developed after 280.5m.	5	0	2
283.0	292.5	Amphibolite	green	FMG		Pegmatite at 288.5-288.9m. Biotite content varies slightly resulting in biotite rich bands.	20	0	3
292.5	297.9	Felsic Gneiss (S)	grey	FMG		Unit is more felsic and siliceous than the top of the hole units. Weak melting textures are close to the minor pegmatite units. Amphibolite at 293.1-293.3, 293.8-294.0m, and 296.4-296.6m. Sections of Pegmatite at 293.5-293.6m, 294.8-295.2m, 295.4-295.7m, and 295.9-296.0m. Very weakly porphyritic.	3	0	7
297.9	302.2	Amphibolite	green	FG		Section of diorite at 301.4-301.7m.	5	3	1
302.2	307.6	Biotite Felsic Gneiss	grey	FG	BND	Biotite is concentrated in thin bands defining the banding texture. Pegmatite with coarse grained biotite rich borders at 302.2-302.8m. Becomes slightly dioritic and loses some biotite after 306.6m. Small section of porphyroblastic amphibole felsic gneiss at 305.9-306.2m.	25	0.1	3

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
307.6	320.0	Amphibolite	green	FCG		Localized concentrations of garnet up to 50%. Highest concentrations are between 310.3-311.5m. Becomes moderately altered after 319.5m.	15	20	0
320.0	321.0	Felsic Gneiss (G)	pink	FMG			3	0	0
321.0	323.6	Garnet Biotite Felsic Gneiss	green_pink	FCG			30	5	0
323.6	326.1	Felsic Gneiss (G)	pink	FMG		Weak dioritic texture.	3	0	0
326.1	328.7	Felsic Gneiss (G)	beige	FG		Similar to previous unit but is strongly foliated and altered. Localized thin bands of Garnet Biotite Felsic Gneiss.	2	0	2
328.7	332.9	Garnet Biotite Felsic Gneiss	green_pink	FMG		Strongly altered. Localized sections of Felsic Gneiss (G) and Pegmatite. Pegmatite at 331.2-331.3m and 331.9-332.0m.	30	3	1
332.9	335.6	Felsic Gneiss (G)	pink	FMG		Pegmatite at 332.9-333.2m and 334.2-334.7m.	3	0	15
335.6	337.2	Garnet Biotite Felsic Gneiss	green_pink	FG		Unit is finer grained than previous Garnet Biotite Felsic Gneiss units.	35	2	0.5
337.2	343.7	Felsic Gneiss (G)	lt grey	FMG			3	0	1
343.7	345.8	Felsic Gneiss (S)	grey	FG			5	0	3
345.8	356.4	Felsic Gneiss (G)	pink	FMG		Localized sections of Felsic Gneiss (S). UM/Lamp dyke at 355.0-355.3m. Pegmatite at 350.5-350.7m and 355.3-355.6m.	3	0	2
356.4	357.7	Felsic Gneiss (S)	grey	FG		Rare, thin sections of Amphibolite.	5	0	0
357.7	360.7	Felsic Gneiss (S)	grey	FG		Heavily silicified unit. All primary texture has been destroyed.	5	0	5
360.7	362.2	Quartz Vein	white	FG			0.5	0	0
362.2	364.4	UM\LAMP Dike	dk grey	FG		Section of Felsic Gneiss (S) at 364.1-364.3m.	2	0	0
364.4	371.0	Garnet Biotite Felsic Gneiss	green_pink	FMG		Quartz vein at 365.2-265.8m. Pegmatite at 366.2-366.5m. Felsic Gneiss (S) at 367.5-367.7m and 368.5-368.7m. Biotite content is locally variable.	30	3	2
371.0	372.6	Quartz Vein	white	FG	BND	Contains thin sections of heavily silicified Garnet Biotite Gneiss throughout the unit. Results in a banded appearance.	25	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
372.6	378.1	Quartz Vein	white	FG		Highest grade zone. Almost entirely quartz vein. 5 flecks of visible gold.	1	0	0
378.1	378.9	Garnet Biotite Felsic Gneiss	green_pink	FMG		Strongly silicified with quartz flooded sections. Bottom of high grade zone.	25	3	0
378.9	380.5	Garnet Biotite Felsic Gneiss				Rare bands of amphibolite.	30	2	0
380.5	382.2	Amphibolite	green	FG		Weakly to moderately quartz flooded amphibolite.	20	3	5
382.2	386.6	Felsic Gneiss (S)	grey	FMG		Moderately to strongly altered.	3	0	2
386.6	388.2	Diorite	grey	FG		Amphibolite at 387.3-387.4m. Pegmatite at 387.4-387.5m.	10	0	5
388.2	391.3	Amphibolite	green	FMG		Footwall amphibolite. Diorite at 389.4-389.9m.	7	0	1
391.3	394.0	Diorite	grey	FMG		Pegmatite at 391.4-391.7m. And 393.7-394.0m.	10	0	3
394.0	397.0	Amphibolite	green	FMG	BND	EOH	15	5	0

Drilling Company Major	Core Size HQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 441	Dip of Hole At Collar -85	Location where core stored Chapleau, Ont.	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 27/01/2015	Date Completed 30/01/2015	Date Logged 27/01/2015 to 30/01/2015	Logged By J. Klarner	(m) degrees	(m) degrees	Property Name Borden	Easting 331652 Northing 5303285 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.2	Casing							
2.2	11.8	Diorite	grey	FMG	POR	Minor felsic gneiss (s) unit from 12.1-12.3m. Grain size decreases down unit.	3	0	0
11.8	12.6	Quartz Vein	white	FG		Lower contact is shallow and irregular.	0	0	0
12.6	15.0	Amphibolite	green	FMG		Small section of felsic gneiss (s) at 12.8-12.9m. Hornblende concentration increases slightly downunit.	15	0	2
15.0	16.1	Diorite	grey	FCG	MELT	Very siliceous and probably partially melted. Grades into the pegmatite from the top over 10cm. The bottom contact of the pegmatite is sharp but still exhibits melt textures on the margin. Grain size is variable throughout. Coarse grained pegmatite at 15.5-15.9m.	12	0	40
16.1	28.6	Amphibolite	green	FG	VUG	Minor diorite unit at 22.6-23.0m. Minor felsic gneiss (s) unit at 27.2-27m. Weakly brecciated throughout (stockwork of quartz-carbonate veining).	15	0	0
28.6	36.3	Felsic Gneiss (S)	grey	FMG		Localized sections with dioritic textures. Becomes finer grained after 33.1m. Biotite decreases slightly down unit.	5	0	0
36.3	42.9	Diorite	grey	FMG	POR	Localized sections of foliated felsic gneiss (s). Pegmatite at 37.2-37.4m.	3	0	0.5
42.9	65.0	Felsic Gneiss (S)	grey	FG			3	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
65.0	67.7	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR		15	0	0
67.7	73.2	Felsic Gneiss (S)	grey	FG		Localized sections with poorly developed dioritic texture.	3	0	0
73.2	84.8	Diorite	grey	FMG	VUG	Unit contains up to 1-3% fine grained hornblende with patchy distribution. Unit is borderline felsic gneiss (s) but has moderately well developed porphyritic texture in addition to foliation. Trace, small (<1mm) vugs throughout the unit.	3	0	0
84.8	87.6	Felsic Gneiss (S)	grey	FMG		Localized, poorly developed dioritic textures.	7	0	0
87.6	90.0	UMLAMP Dike	dk grey	FG		1cm wide light grey chill margin, xenocrysts increase near lower contact, up to 3cm wide lithic fragments.	0	0	0
90.0	99.1	Diorite	grey	FCG	POR	Diorite, foliated, looks almost like Felsic Gneiss (S), but moderate foliation and feldspar phenocrysts throughout. 0.5% qtz-carb stringers with weak associated potassic alteration.	5	0	0
99.1	110.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with quartz eyes throughout, more foliated than upper unit, not as prevalent phenocrysts. Qtz vein at 107.6m (5cm wide, 4cm long X 1cm wide band of pyrite). Bull quartz vein from 109.55-109.85m (1%py associated with chlorite selvages). 3% qtz-carb stringers with associated potassic alteration (weak-mod).	5	0	0.5
110.8	125.5	Diorite	grey_white	FCG	POR	Diorite, foliated, looks almost like Felsic Gneiss (S), but moderate foliation and feldspar phenocrysts throughout. 1.5% qtz-carb stringers with weak potassic-sericitic alteration associated (decrease down unit in abundance).	8	0	0
125.5	163.2	Amphibole Felsic Gneiss	grey_green	FCG	POC	Amphibole Felsic Gneiss. Possible fault at 128.25-128.4m, no good measurement for angle (possibly 55degrees to core axis?). 0.5% quartz-carb stringers throughout following and cross-cutting foliation. Ultramafic Dike (less than 10cm) around 135.8-135.9. Minor units of a more felsic gneiss with biotite porphyroclasts totally replacing the amphiboles and foliated moderate-strongly, chlorite alteration in biotite has also lessened in these units. These units are found from: 144.35-144.9m, 150.8-151.25m, 152.4-153.2m, 154.8-157.2m, 158.2-161.2m.	25	0	0
163.2	170.6	Diorite	grey_green	FCG	VUG	Diorite with weak to strong (locally) potassic-sericite altered zones due to presence of 2% qtz-carb stringers. Very blocky core, especially from 163.4-164.6m. Locally vuggy (weakly). Amphibolite from 169.25-170m. Weak-moderately siliceous unit at lower contact.	5	0	0.5
170.6	180.7	Amphibolite	grey_green	FMG		Biotite rich amphibolite with strong foliation and a Ultramafic Dikes following and cross-cutting foliation. Dikes (with chill margins) at 178.5m (3cm wide), 178.7-178.8m. 5% qtz-carb stringers throughout, cross-cutting and following foliation. About 2-3% sulphides (mainly pyrite). Almost the amphibolite felsic gneiss but with a strong foliation. Blocky core again from 174.3-174.5m and at 175.1-175.25m (likely due to the presence of faulting based on slickensides). Local strained garnets. Hematite staining along chlorite fractures and qtz-carb stringers.	10	0.5	0.5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
180.7	181.4	UM\LAMP Dike	grey_green	FG		Ultramafic Dike with large rounded clast (up to 10cm wide) with clasts fragmenting (due to chilling) and being infilled with garnets locally. Almost looks like unit beds upward towards top of hole. Possibly a weird magnetic sedimentary sequence? But more like the texture of the dikes. No defined chill margins (weird?). Clasts (xenoliths) consist of jaspar, feldspar, mudstone?, qtz.	0	2	0
181.4	188.6	Amphibolite	grey_green	FMG	VUG	Mixed Interbanded units of mainly (Biotite-rich) Amphibolite and Felsic Gneiss (S), with very minor units of Diorite. Felsic Gneiss from:187.9-188.6m. Diorite from 185.4-185.55m, 185.85-186.7m. 1% qtz-carb stringers throughout. Locally weakly vuggy in amphiboolite layers. Local bull-qtz veining at lower contact from about 187.6-187.9m (patchy).	20	0	2
188.6	189.5	Quartz Vein	grey_white	CG	PEG	Quartz Vein following foliation at upper contact and cross-cutting lithology at lower contact with semi-massive associated pyrite at lower contact.Looks like a quartz vein with coherent fragments of country rock brecciated and infilled in the selvages with pyrite and associated with alteration halos like possibly chlorite-epidote-reibekite (or possibly malachite, azurite?, associated with the sulphides, no visible chalcopryite though?).	4	0	30
189.5	196.1	Amphibolite	grey_green	FMG	VUG	Amphibolite with interbanded layers of Felsic Gneiss (S) with Diorite locally from 192.4-193.4m. Pegmatite/Qtz Vein from 189.9-190.1m with associated pyrite like previous vein, also more visible pyrrhotite and chalcopryite within vein. Local vuggy patches with assoc. pyrite. 2%qtz-carb stringers throughout. Local pegmatites has nice pyrite associated. Ultramafic Dike? From 194.6-194.8m with chlorite altered stringers coming off from it, baked up, 1% pyrite throughout, moderately sericite altered.	8	0.1	8
196.1	200.0	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S). Pegmatites from 197.2-197.4m, and 197.5-197.8m. 0.5% qtz-carn stringers with associated weak sericite alteration. Very local, not too prominent qtz eyes, increase down unit. Weak siliceous alteration.	8	0	5
200.0	201.6	Amphibolite	grey_green	FMG		Trace qtz-carb stringers with associated chl-epi calt.	2	0	0
201.6	205.5	Felsic Gneiss (S)	grey_green	FMG	VUG	Felsic Gneiss (S) with minor units of amphibolite throughout. Amphibolite from 202.5-202.8m, 201-205.5m (nice 3% associated Po+py). Weak local vugs of chlorite-carb-epidote alteration with associated pyrite+pyrrhotite throughout.	5	0	4
205.5	215.2	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor lenses of pegmatite, and local bands of weak carb alteration, bands of more amphibole-rich rock throughout. . Trace qtz-carb stringers throughout. Local amphibole-rich bands have associated pyrite. Minor pegmatite from 207.65-207.75m (potassic moderately altered),	4	0	8
215.2	223.7	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with 4% qtz-carb stringers with epidote-potassic-sericite alteration (weak-mod). One major extensional gash vein from 219.8- 220.4m with associated pyrite in vein following along core axis plane.	5	0	5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
223.7	230.8	Felsic Gneiss (S)	grey_white	FCG	VUG	Felsic Gneiss (S) with minor bands and units of amphibolite. Bands of more quartz-carbonate material with large biotite+epidote clusters within. Unit is locally potassic, sericite-epidote altered (along bands) or just very strained pegmatites?. Pegmatite from 225.15-225.13m (following foliation), 226.3-226.5m. Amphibolites from 226.6-226.9, 228-228.1m. Local vugs with epidote associated. 229.5-229.6m.	10	0	5
230.8	231.7	Amphibolite	grey_green	FMG		Weak potassic-chlorite alteration throughout.	6	0	0
231.7	235.4	Felsic Gneiss (S)	grey	FMG		Weak potassic-chlorite alteration throughout. Trace qtz-carb stringers with associated sericite alteration. Very local vuggy spots toward lower contact with associated carb alteration, epidote infilling vugs. Amphiboles increase towards lower contact.	6	0	0
235.4	239.3	Amphibolite	grey_green	FMG	BND	Amphibolite with a strong foliation and full of biotite. Foliation has almost become crenulated in spots. Potassic alteration in bands associated with pegmatites. Weak-moderate chlorite alteration throughout. Minor Felsic Gneiss (S) from 237.8-238.4m.	20	0	3
239.3	241.9	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) grading into a diorite down unit. 1%qtz-carb stringers with associated moderate potassic alteration (locally).	8	0	1
241.9	244.3	Diorite	grey_white	FCG	POR	Diorite with moderate foliation. Feldspar phenocrysts not too well defined, but throughout. Pegmatite veinlets throughout (up to 3cm wide). 1% qtz-carb stringrs with moderate potassic alteration locally.	10	0	5
244.3	249.9	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with pegmatites throughout. Main pegmatites from 247.5-247.6m, 248.5-248.6m. 1% qtz-carb stringers throughout (weak sericite/potassic alteration).	7	0	4
249.9	251.2	Diorite	grey_white	FCG	POR	Diorite, weak potassic alteration throughout, weak-mod siliceous alteration.	15	0	0.5
251.2	259.1	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with weak-mod siliceous alteration. Pegmatite from 255.9-256.2m(fine-med grained), 257.1-257.4m (coarse-grained). 3% qtz/carb stringers with weak sericite-epidote alteration. Lower contact of unit has a moderate potassic-sericitic alteration associated with qtz-carb stringers.	5	0	3
259.1	262.6	Amphibolite	grey_green	FMG		(Ultramafic) Biotite-rich Amphibolite with minor units of Felsic Gneiss (S) with Pegmatites from 259.7-260.1m, 261.6-262.1m. Moderate-strong silica alteration.	20	0	5
262.6	265.4	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with qtz eyes throughout, moderate siliceous alteration. 1% qtz-carb stringers with weak-mod potassic alt. Locally vuggy with carb+epid+py infilling.	7	0	0
265.4	267.4	Amphibolite	grey_green	FMG		Biotite-rich Amphibolite (Ultramafic). Mm sized garnets throughout. Foliation moderate. Chlorite infilling matrix (replacing amphiboles). Pegmatite from 267-267.2m (following foliation, minor fibrous feldspar in blebs).	30	1	5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
267.4	276.1	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with qtz eyes throughtout (cm big) but dissapear down unit. Diorite locally. Pegmatites throughout (mostly less than 10cm wide, mostly following foliation, associated cm crystals of biotite being replaced by chlorite and pyrite). Minor ones at 270.05-270.15m, 271.6-271.7m. 3.5% qtz-carb stringers with moderate-strong potassic alteration). Ultramafic Dike from 271.9-272.05m (chill margins and just a pod where the dike came in perpendicular to core-axis, small xenoliths down hole and fines uphole in xenolith size), 274.8-275m with chill margins and cross-cutting foliation at a low angle. Minor patches of feldspar phenocrysts (not big enough to break out as a unit), possibly little patches of diorite? (270.3-270.5m).	5	0	5
276.1	278.7	Amphibolite	grey_green	FCG		Biotite-rich Amphibolite interbanded with Felsic Gneiss (S). Pegmatite lenses throughout. Felsic Gneiss from 276.7-277.8m. Trace weak reibekite alteration associated with pegmatite lenses (along with potassic alt).	10	0	4
278.7	281.2	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor lenses of amphiboles. Minor pegmatite at 279.9-280.1m with associated pyrite and epidote in slevages with biotite (~3%py, 7%epid, 5%biot) potassic altered. Weak-moderate potassic alteration throughout (stronger up unit).	5	0	3
281.2	283.6	Diorite	grey	FCG	POR	Diorite with a moderate foliation. Weak potassic alteration throughout. Feldspar phenocrysts throughout. Very minor bands of pegmatites with nice cm sized biotite grains.	8	0	3
283.6	293.3	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with prominent (cm) qtz eyes throughout. 1%qtz-carb stringers with associated weak potassic-sericitic alteration. Sericitic alteration weak throughout with minor chlorite+epidote. Pegmtites hve cm blebs of pyrite sassociated. Upper contact is all broken and more pegmatitic that the lower units (283.55-284.3).	5	0	3
293.3	295.2	UM\LAMP Dike	dk grey	FMG		Ultramafic Dike with very minor chill margins and up to 2mm xenoliths of qtz-carb (sub angular).	20	0	0
295.2	298.0	Garnet Biotite Felsic Gneiss	grey_green	FCG	BND	Silicified Garnet Biotite Felsic Gneisswith minor bands of Amphibolite and Felsic Gneiss (S). Nice ~2%po, 1%py in minor stockwerk veining. At 297.2-297.45m there is strong sericite/epidote alteration with associated po+py due to a cm qtz-carb vein intruding and baking host rock. 1% qtz-carb stringers otherwise (with weak chl alt).	15	3	0
298.0	301.0	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with amphibolite in minor units. Amphibolite from 298.9-299.3m. Bull Quartz Vein with cm biotite crystals and no visible sulphides at 298.55-298.8m. Quartz eyes throughout. Moderate silica-sericite alteration. Weak chlorite alt.	5	0	2
301.0	303.2	Amphibolite	grey_green	FMG	BND	Amphibolite with minor lenses of Felsic Gneiss (S). Moderately siliceous throughout, weak chlorite-sericite alteration. Trace garnets in amphibolite units locally. Felsic Gneiss (S) from 301.55-301.9m.	4	0.1	2
303.2	304.0	Pegmatite	white	MCG		Pegmatite with large clusters of biotite, up to 1nch crystals. Local chlorite alteration (green feldspar?).Blebs of py+po associated along the grain bondaries of the biotite.	25	0	95

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
304.0	308.7	Amphibolite	grey_green	FMG		Amphibolite with minor units of Felsic Gneiss (S). Felsic Gneiss from 305.9-306.35m, 306.85-307.6m. 308-308.3m. Pegmatite from 304.75-304.9m (5%po, 2%py, trace cpy, with associated almost crenulated biotite that has been replaced by chlorite, following foliation). Veinlet of qtz-carb at 308.2m (2cm) with strong potassic alteration at contact and weakening out to a sericite alteration. Local epidote-carb blebs throughout felsic gneiss (s).	10	0.1	5
308.7	311.9	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with minor bands of Felsic Gneiss (G) and minor units of amphibolite. Amphibolite from 309.35-309.65m, 309.95-310.1m. Minor Diorite from 310.45-310.75m. Pegmatites throughout in bands following foliation, minor ones at 308.9-309.1m, 309.8-309.95m.	5	0	8
311.9	313.0	Amphibolite	grey_green	FG		Amphibolite, very folited. Lower contact grades into sericite-potassic altered felsic gneiss (S).	10	0	0
313.0	317.5	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor units of pegmatite throughout as well as minor lenses of more Felsic Gneiss (G). Pegmatites from 313.7-313.9m, 314.45-314.6m, 315.45-315.6m. Minor Garnet Biotite Felsic Gneiss at 317-317.45m. Pegmatites have reibekite alteration at the edges of the biotite crystals as well as minor chlorite (green feldspar) and 3mm blebs of pyrite associated in pegmatites. Weak-moderate silica alteration.	6	1	20
317.5	323.1	Felsic Gneiss (G)	grey	FCG		Felsic Gneiss (G) with Pegmatites at 317.45-317.8m, and 318.15-318.4m. Muscovite up to 2cm blebs in clusters and locally sillimanite replaced. Local weak potassic-sericitic alteration.	10	0.1	15
323.1	325.5	Garnet Biotite Felsic Gneiss	grey_green	FMG	POC	Silicified Garnet Biotite Felsic Gneiss with ultramafic dikes cross-cutting foliation. Dikes at 324.15-324.3m, 324.8-325.45m (breccia associated with qtz-carb infilling, very epidote altered). 1-2% qtz-carb stringers with associated mod potassic (and weak sericitic) alteration.	8	8	0
325.5	326.5	Amphibolite	grey_green	FG		Amphibolite, moderate-strongly silica altered, with weak chlorite alteration. 2% qtz-carb stringers with local stringers of potassic alteration (hematite?). Lower contact potassic altered (mod).	6	1	1
326.5	328.2	Diorite	grey	FCG	POR	Diorite but with a moderate-strong foliation. Somewhat prevalent feldspar phenocrysts throughout. Weak potassic-sericitic alteration, moderated silica alteration. 1% qtz-carb stringers with weak potassic alteration assoc.	15	0	0
328.2	329.1	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with minor bands of Garnet Biotite Felsic Gneiss. Weak potassic alteration throughout.	7	0.1	5
329.1	337.2	Garnet Biotite Felsic Gneiss	green_pink	FCG	BND	Garnet Biotite Felsic Gneiss with minor lenses of Felsic Gneiss (G). Moderate-strong silica alteration, weak sericite+chlorite+epidote alteration. Trace qtz-carb stringers.	10	5	1
337.2	342.3	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with pegmatite lenses throughout. Weak to moderate sericite-potassic alteration throughout. Local epidote-chlorite alteration (green feldspars?).	8	0	8
342.3	348.4	Garnet Biotite Felsic Gneiss	green_pink	FCG	POC	Garnet Biotite Felsic Gneiss almost grading to an amphibolite with garnets, silicified (mod-strongly) throughout. Very minor lenses of pegmatite and qtz-carb veining along with bands of moderately sericite altered rock. Weak chlorite alteration, minor reibekite associated along banding in more amphibole-rich rock.	30	10	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
348.4	350.0	Pegmatite	white	MCG	PEG	Silicified pegmatite with local chlorite alteration (green feldspar?). Throughout. Fliated bands of biotite throughout (almost crenulated). Py +po associated along selvages and interstitial to biotite mainly.	25	0	95
350.0	353.8	Garnet Biotite Felsic Gneiss		FMG		Garnet Biotite Felsic Gneiss with minor bands and units of Felsic Gneiss (S). Moderate-strongly sil altered. Local chlorite/epidote alteration in the banding. Unit almost grades into an amphibolite. Felsic Gneiss (S) from 250-250.5m, 253.1-253.4m.	10	4	1
353.8	358.8	Amphibolite	dk grey	VFG	BND	Amphibolite with a moderate-strong silica alteration. Minor bands and units of Felsic Gneiss (S). Felsic Gneiss unit from 355.1-355.7m. Pegmatite from 357.9-358.1m with associated fracturing and qtz-carb veining. 2-3% qtz-carb stringers throughout. Veining has brecciated and re-crystalized minor areas throughout (brittle deformation mostly). Localized mm crystals of possibly feldspar in little needles (356.7-357.3m). Blocky core from 356.2-356.5m.	5	0.1	2
358.8	363.0	Felsic Gneiss (G)	grey	FCG		Felsic Gneiss (G) with minor units of Felsic Gneiss (S), almost gradation from sedimentary derived to granite derived. Pegmatites from 359.3-359.9m, 360.6-360.7m, 362.55-362.7m. Foliation increases down unit, as well as biotite banding. Local patches in pegmatite with minor chlorite alteration (green feldspar?).	7	0	10
363.0	371.2	Pegmatite	green_pink	MCG	PEG	Pegmatite made out of Silicified Felsic Gneiss (G). Moderately siliceous, foliation moderate as seen in the biotite lenses. Chlorite/epidote alteration (Green feldspar?) throughout. Biotite crystals up to 2cm big, Pyrite associated at grain boundaries of biotite. Local vuggy and becciated areas infilled with feldspar and quartz. Very fragmented core throughout, following qtz-chlorite stringers cross-cutting foliation. Very blocky core from 366.6-366.8m, 367.2-367.3m, 368.5-368.6m. Whole unit is very broken up. Breccia from 369-369.2m (infilled with calcite and potassium feldspar). Minor more coarse-grained units, 363.6-367m, 366.5-370m, 370.4-371.15m.	15	0	80
371.2	377.5	Felsic Gneiss (G)	grey	FMG	PEG	Silicified Felsic Gneiss (G) with Pegmatites throughout. Pegmatites from 372-372.25m (5%py, 1%po), 372.6-372.9m, 373.1-373.3m, 374-375m, 376.2-376.3m, 376.7-377.5m (intermixed lithologies). Pegmatites has potassic and chlorite alteration (or green feldspar?) throughout.	8	0	35
377.5	380.0	Garnet Biotite Felsic Gneiss	green_pink	FCG		Garnet Biotite Felsic Gneiss with 0.5%qtz-carb stringers throughout with locally moderate sericite alteration. Moderately silica altered. Weak chlorite alteration.	30	10	1
380.0	391.5	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G), very locally brecciated and backed up by hydrothermal fluids? Big Fault zone? Very broken core throughout. Muscovite in elongated blebs following foliation. 2-3% qtz-carb stringers infilled with chlorite and fractured (breaking core and creating minute slickens). Tiny qtz vein from 387.1-387.2m. Very hard to tell composition because of the brecciating and grinding of rocks along the fault. Micro faulting planes are at 10 and 60 degrees to core axis.	15	0	2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
391.5	401.8	Garnet Biotite Felsic Gneiss	grey_green	FMG	BND	Garnet Biotite Felsic Gneiss with minor pegmatites, a small unit of felsic gneiss (S) from 395.4-396m (with a pegmatite in it), and a small unit of diorite (3mm feldspar phenocrysts) from 398.35-398.65m. Also minor interbedded layers of amphibolite. Pegmatites from 395.5-395.7m, 397.7-397.9m. Quartz Vein at 393.7-393.9m (with associated brecciated semi-hedral pyrite, and quartz that has deformation (grey)). Moderate-strong silica alteration. Weak reibekite alteration locally, but throughout. 0.5%qtz-carb stringers.	15	4	3
401.8	407.5	Biotite Felsic Gneiss	grey_white	FMG		Biotite Felsic Gneiss with pegmatites throughout. One major pegmatite from 406.3-407.2m. Weak sericite-chlorite alteration associated with trace qtz-carb stringers.	30	0	20
407.5	409.8	Felsic Gneiss (S)	grey	FMG	BND	Felsic Gneiss (S) with pegmatites throughout .Major brecciated zone from 409-409.8m (fault area?). Pegmatite from 408.2-408.3m.	10	0	5
409.8	414.1	Pegmatite	white	CG	PEG	Pegmatite with chlorite alteration (green feldspar?) locally. Weak-moderate potassic alteration (kspar). Local blebs of pyrrhotite and pyrite in selvages associated with biotite. Biotite increase closer to lower contact.	30	0	95
414.1	421.3	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with minor pegmatites throughout. Biotite is abundant at top of unit, lessens down hole. Main pegmatite from 416.2-416.5m. Almost texture of quartz eyes-rich felsic gneiss, but not prominent. Weak-moderately silica altered.	12	0	5
421.3	423.1	Amphibolite	green	FMG	BND	Footwall Amphibolite. Banded with localized areas of more moderate chlorite alteration. Local lensed of carb alteration (weak-mod).	5	0	0
423.1	424.3	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor pegmatites at 423.05-423.2m, 423.6-423.85m(1%po, 5%biot).	8	0	10
424.3	434.4	Amphibolite	grey_green	FMG		Footwall Amphibolite with minor Ultramafic Dikes cross-cutting lithology. Dikes from 430.8-432.15m. Weak qtz-carb-chlorite alteration throughout.	3	0	0
434.4	435.3	Diorite	grey_white	FCG	POR	Diorite with a moderate foliation. Phenocrysts well defined, mm sized.	15	0	0
435.3	438.7	Pegmatite	pink	CG	PEG	Pegmatite, mostly potassium feldspar. Minor lenses of amphibolite (footwall). Part of the footwall Amphibolite package.	10	0	85
438.7	441.0	Amphibolite	grey_green	FMG		Footwall Amphibolite. Trace Qtz-carb stringers.	5	5	0

Drilling Company Major	Core Size NQ	Collar Elevation (m) 432	Bearing of Hole from true North 205	Total Depth (m) 432	Dip of Hole At Collar -85	Location where core stored Chapleau Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 27/01/2015	Date Completed 01/02/2015	Date Logged 27/01/2015 to 01/02/2015	Logged By A. Nette	(m) degrees	(m) degrees	Property Name Borden	Easting 331614 Northing 5303312 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.0	Casing				Casing			
2.0	16.7	Felsic Gneiss (S)	grey	FMG	POR	Weakly foliated felsic gniess with patchy potassic halos around veinlets. Fine-grained and disseminated pyrite throughout and local medium to very coarse aggregates from 15-16.70m.	3	0	0
16.7	17.5	Amphibolite	green	FG	BND	Amphibolite with common fine-medium grained disseminated pyrite; common wispy carbonate.	0	0	0
17.5	18.8	UM\LAMP Dike	black	FMG	MELT	Ultramafic dyke with common xenoliths and chilled margins. Sharp contacts.	0	0	0
18.8	24.6	Amphibolite	green	FG	VUG	Weakly foliated amphibolite with abundant wispy carbonate, occasional coarse pyrite aggregates and minor carbonate vugs.	2	0	0
24.6	58.1	Felsic Gneiss (S)	grey	FMG	POR	Felsic gniess with variable weak to moderate foliation, occasional potassic halos around veinlets, trace fine-grained disseminated pyrite and local amphibolite interval from 33.24-33.50m.	3	0	0
58.1	62.3	Amphibolite	green	FG	BND	Amphibolite with abundant wispy carbonate, weak variable foliation and local intervals of FGS from 60.38-60.55m and 61.5-62.2m.	2	0	0
62.3	69.0	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR	Quartz-feldspar porphyry with occasional biotite alteration along weak foliation plane.	4	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
69.0	72.4	Amphibolite	grey_green	FMG	BND	Amphibolite with weak foliation, wispy carbonate and common felsic bands throughout. Local interval of felsic gniess with minor amphibolite bands from 69.75-70.7m; slightly dioritic texture.	2	0	0
72.4	131.3	Felsic Gneiss (S)	grey	FMG	POR	Felsic gniess with common quartz eyes, local dioritic textures and weak to moderate folition (locally variable). Common disseminated sulphides along foliation planes with biotite and local aggregates and banding associated with moderate foliation. Patchy potassic alteration halos around veinlets and fractures. Local and minor ultramafic dyke intersections from 84.7-84.85m and 88.3-88.9m with slight chill margins.	4	0	0
131.3	141.5	Amphibole Felsic Gneiss	green	FCG	POR	Porphyritic amphibolite with mm-cm size amphibole phenocrysts and common biotite along weak to moderate foliation plane. Felsic ground mass and local interval of abundant felsic groundmass from 137.7-138.8m.	10	0	0
141.5	143.6	UMLAMP Dike	black	FMG	POC	Ultramafic dyke with undulating contact and common xenoliths increasing towards contacts.	4	0	0
143.6	151.5	Amphibole Felsic Gneiss	green	FCG	POR	Porphyritic amphibolite with mm-cm size amphibole phenocrysts and common biotite along weak to moderate foliation plane. Local mafic dyke from 150.40-151.1m; similar texture to amphibolite.	10	0	0
151.5	154.4	UMLAMP Dike	black	FMG	POC	Ultramafic dyke with undulating contact and common xenoliths increasing towards contacts.	3	0	0
154.4	161.5	Amphibole Felsic Gneiss	green	FCG	POR	Porphyritic amphibolite with mm-cm size amphibole phenocrysts and common biotite along weak to moderate foliation plane.	10	0	0
161.5	178.5	Diorite	dk grey	FCG	POR	Diorite with ocaasional potassic stained haols around local veinlets and fractures.Minor UMD from 163-163.2m with common xenoliths and chilled margins.Trace local amphibolite banding from 173-174m.	4	0	0
178.5	179.9	Amphibolite	grey_green	FMG	BND	Moderately foliated amphibolite with common banding of felsic gniess/diorite parallel to foliation.	2	0	0
179.9	181.9	Felsic Gneiss (S)	grey	FG		Felsic gniess with slight dioritic texture and common potassic alteration halos around carbonate veinlets.	3	0	0
181.9	185.3	UMLAMP Dike	black	FMG	POC	Ultramafic dyke with undulating contact and common xenoliths increasing towards contacts.	1	0	0
185.3	189.3	Amphibolite	green	FG	BND	Weakly foliated amphibolite with occasional disseminated pyrite. Local amphibolite interval from 187.3-188.1m with patchy potassic alteration halos around veinlets.	1	0	0
189.3	192.9	Diorite	grey	FMG	POR	Diorite with occasional amphibolite banding and patchy potassic alteration halos around veinlets.	3	0	0
192.9	196.7	Amphibolite	grey_green	FG	BND	Moderately foliated amphibolite with common felsic bands, occasional pyrite aggregates and local spotty epidote alteration.	2	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
196.7	222.4	Felsic Gneiss (S)	grey	FG	BND	Weak to moderately foliated felsic gniess with silight silicification. Local amphibolite interval from 204.4-205m; patchy epidote in carbonate vugs. Fine grained and disseminated pyrite throughout; local increase through amphibolite interval. Minor pegmatite band from 217.8-218m.	4	0	1
222.4	223.5	Amphibolite	green	FG	BND	Minor interval of amphibolite with slight felsic banding parallel to foliation.	0.5	0	
223.5	231.0	UM\LAMP Dike	grey_black	VCG	POC	Ultramafic dyke with abundant xenoliths of various lithology; mm-15cm scale. Xenolith with kyante?	2	0	0
231.0	237.0	Felsic Gneiss (S)	grey	FG	BND	Moderately foliated felsic gniess with common potassic staining and increased silicification. Trace disseminated sulphides.	3	0	0
237.0	242.3	Amphibolite	green	FG	BND	Moderately foliated amphibolite with minor felsic banding and local fault gouge and associated breccia at 239.9m; 2mm gouge and potassic alteration halo.	2	0	0
242.3	264.7	Felsic Gneiss (S)	grey	FG	BND	Moderately foliated felsic gniess with common potassic staining and increased silicification. Local pegmatite/quartz vein from 358.8-359m and associated potassic staining. Occasional disseminated pyrite along foliation planes.	3	0	2
264.7	265.3	Amphibolite	green	FMG	VUG	Minor interval of amphibolite with common carbonate vugs and associated epidote alteration. Sharp contacts parallel to weak foliation.	1	0	0
265.3	276.4	Felsic Gneiss (G)	pink	FMG	BND	Felsic gniess with increased alteration; silica, muscovite and potassic staining throughout. Occasional intervals of FGS with decreased alteration and local pegmatite bands from 271.6-272.1m and 272.7-273m with common potassic staining. Moderately foliated throughout.	4	0	10
276.4	278.0	Amphibolite	green_pink	FCG	BND	Amphibolite with ocssional felsic groundmass and patchy pegmatite with aassociated coarse K-feldspar and biotite.	6		5
278.0	287.0	Felsic Gneiss (G)	pink	FMG	BND	Silicified felsic gniess with common muscovite, biotite and potassic staining. Occasion minor pegmatite banding with associated strong potassic alteration halos. Gradional lower contact with decreasing alteration.	6	0	2
287.0	292.6	Felsic Gneiss (S)	grey	FG	BND	Felsic gniess with patchy silicification and potassic alteration. Minor and local pegmatite bands with weak KF and BI alteration. Weak to moderate foliation throughout with biotite along foliation plane.	4	0	2
292.6	293.1	Quartz Vein	grey_white	FG		Massive quartz vein parallel to foliation and local grey strain with pyrrhotite aggregates and biotite along selvages.	2	0	0
293.1	301.7	Felsic Gneiss (S)	grey_green	FMG	BND	Intercallated felsic gniess and amphibolite; increased moderate to strong foliation in amphibolite, occasional garnet aggregates, local quartz flooding, common Po/Py disseminations and bands and biotite banding along amphibolite margins. Patchy silicification associated with increased biotite alteration.	7	2	10
301.7	303.2	Quartz Vein	grey_green	FCG	PEG	Quartz vein/flooding with local pegmatitic texture, common amphibolite and biotite banding with associated Po/Py.	15	0	10

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
303.2	306.0	Amphibolite	green	FMG	BND	Amphibolite with common felsic banding and groundmass, occasional quartz flooding, associated biotite banding and pyrrhotite mineralization.	10	0	2
306.0	307.0	Pegmatite	green_pink	CG	PEG	Short interval of pegmatite with patchy biotite alteration. Gradational lower contact into felsic gniess.	5	0	100
307.0	315.1	Felsic Gneiss (S)	grey_green	FMG	BND	Felsic gniess with abundant amphibolite banding throughout and associated biotite alteration. Minor and local quartz eyes from 312.3-313.1m and local pegmatite from 313.1-313.5m; associated very coarse biotite-po-py aggregate along upper margin, 5cm width.	10	0	5
315.1	318.4	Amphibole Felsic Gneiss	red	FCG	POB	Amphibolite gniess; felsic potassic altered ground mass with medium to coarse amphibole porphyroblasts containing biotite replacement and strain shadows. Moderate-strong strain and alteration; logged in adjacent holes as highly strained and altered diorite.	8	0	0
318.4	337.1	Felsic Gneiss (G)	pink	FCG	BND	Felsic gniess with increasing alteration/foliation from moderate to intense alteration strating at ~326m. Common muscovite-biotite-sillimanite, local quartz flooding and pyrite with subordinate pyrrhotite. Patchy moderate alteration with less potassic staining. Minor pegmatite interval from 330.30-330.50m with patchy Py aggregates and quartz flooding.	8	0	1
337.1	338.7	Garnet Biotite Felsic Gneiss	grey_black	FMG	BND	Moderate to well foliated garnet-biotite felsic gniess with banded garnet aggregates and common pyrite and sericite lenses parallel to foliation.	8	3	0
338.7	341.0	Felsic Gneiss (G)	green	FCG	PEG	Felsic gniess with strong alteration and weak pervasive chlorite. Occasional pegmatitic textures, some minor healed breccia and folding.	9	0	10
341.0	346.2	Pegmatite	green_pink	MCG	PEG	Large intersection of pegmatite with abundant potassic staining and local intense biotite alteratio with common Po/py aggregates from 341.4-341.8m and 342.3-343m. Massive quartz vein marking lower contact from 345.9-346.2m.	20	1	90
346.2	352.8	Garnet Biotite Felsic Gneiss	black	FG	BND	Garnet-biotite felsic gniess; well foliated, common undulating fracture/veinlets running parallel to core axis and contain abundant pyrite infill.	25	7	0
352.8	353.7	Quartz Vein	grey_green	FCG	PEG	Quartz flooded interval with common porphyritic texture and abundant pyrite aggregates. Patchy chlorite alteration in feldspars throughout.	5	0	20
353.7	355.8	Amphibolite	green	FG	BND	Moderate to well foliated amphibolite with common minor felsic banding with potassic staining.	3	1	0
355.8	361.0	Felsic Gneiss (G)	lt brown	FMG	BND	Felsic gniess with abundant breccia textures; carbonate and clay infill, localized folding and minor pegmatitic banding. Strong fault and breccia from 360-360.6m with strong potassic staining, rounded to angular clasts and carbonate healed gouge.	5	0	2
361.0	362.4	UM\LAMP Dike	grey_black	FMG	POC	Ultramafic dyke with common mm scale xenoliths and abundant carbonate fracture heal.	0	0	0
362.4	365.3	Felsic Gneiss (G)	pink	FCG	PEG	Felsic gniess with strong and pervasive potassic staining, common breccia texture and local pegmatite interval from 363.9-364.5m with common quartz flooding and minor pyrite aggregates. Common muscovite alteration and trace sillimantite.	5	0	20

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
365.3	369.5	Garnet Biotite Felsic Gneiss	black	FG	POB	Well foliated garnet-biotite felsic gneiss with banded texture, garnet porphyroblasts and common pyrite disseminations and aggregates along foliation planes; trace Po. Minor interval of FGG from 365.85-366.30m. Patchy dark green banding; possibly local amphibolite.	20	5	0
369.5	388.8	Felsic Gneiss (G)	lt brown	FCG	BND	Strongly altered and moderately foliated felsic gneiss with minor pegmatite, and muscovite-biotite-sillimanite alteration and common breccia texture. Gradational lower contact into FGS. Minor interval of GBFG from 371.3-371.7m.	10	0	3
388.8	394.4	Felsic Gneiss (S)	grey	FG	BND	Felsic gneiss with weak to moderate foliation and minor biotite aligned to foliation trend. Minor patchy potassic and sericitic alteration halos around veinlets and fractures.	4	0	0
394.4	400.6	Garnet Biotite Felsic Gneiss	grey_black	FMG	PEG	Moderate to strongly foliated garnet-biotite felsic gneiss; local intense biotite, patchy garnet aggregates and common Po/Py aggregates along foliation planes. Local Pegmatite banding with abundant biotite; minor intervals from 395.3-395.7m and 400.4-400.6m.	25	3	10
400.6	403.2	Felsic Gneiss (S)	dk grey	FMG	POR	Felsic gneiss with patchy strong biotite banding, minor lenses of amphibolite and local pegmatite from 400.9-401m. Minor quartz vein with coarse Py/Po aggregates from 402.1-402.2m.	10	0	5
403.2	405.7	Garnet Biotite Felsic Gneiss	grey_black	FMG	POB	Moderately foliated garnet-biotite felsic gneiss with common garnet aggregates and strong biotite alteration throughout intersection. Rare disseminated sulphides.	20	10	0
405.7	411.3	Biotite Felsic Gneiss	black	FCG	BND	Strongly foliated and intensely altered biotite felsic gneiss with rare local garnet porphyroblasts. Local interval of pegmatite from 406.65-407.15m and local intervals of amphibolite banding from 408.9-409.1 and 409.4-409.9m. Minor disseminated Py/Po throughout intersection.	35	2	5
411.3	413.3	Quartz Vein	grey_black	FMG	PEG	Intense quartz veining/flooding in biotite gneiss with minor pegmatite banding; 3 specs of visible gold ~711.70m. Abundant sheared lithic fragments of felsic gneiss.	30	0	20
413.3	416.5	Quartz Vein	grey_green	FMG	BND	Intensely sheared and veined/flooded amphibolite; predominately quartz. Rare disseminated sulphides, increasing towards upper and lower contacts. Rare medium grained feldspar.	2	0	1
416.5	418.4	Biotite Felsic Gneiss	grey_black	FMG	BND	Felsic gneiss with abundant biotite alteration and moderate to strong foliation throughout. Common quartz flooding and patchy Py/Po aggregates along foliation planes.	30	0	0
418.4	423.4	Felsic Gneiss (S)	grey_green	FMG	BND	Felsic gneiss with rare biotite alteration along foliation planes and common amphibolite banding and associated chlorite alteration. Patchy and irregular quartz veining/flooding; 1-5cm. Trace disseminated sulphides.	3	0	0
423.4	424.5	Pegmatite	green_pink	VCG	PEG	Pegmatite with rare patchy biotite and Py/Po aggregates.	4	0	100
424.5	427.2	Felsic Gneiss (S)	grey	FCG	POR	Weakly foliated felsic gneiss with minor biotite and trace pegmatite bands. Trace disseminated sulphides.	2	0	1
427.2	428.3	Amphibolite	green	FMG	POR	Footwall amphibolite with medium grained amphibole phenocrysts and fine grained banding containing minor epidote alteration.	0	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
428.3	430.3	Pegmatite	white	VCG	PEG	Quartz flooded pegmatite with trace biotite and sulphide aggregates.	1	0	100
430.3	432.0	Amphibolite	green	FMG	POR	Footwall amphibolite with medium grained amphibole phenocrysts and fine grained banding containing minor epidote alteration. Local felsic laminations. EOH.	1	0	0

Drilling Company	Core Size	Collar Elevation (m)	Bearing of Hole from true North	Total Depth (m)	Dip of Hole At	Location where core stored	Location of DDH (TWP, Lot, Con, LatLong)
Major	NQ	430	205	393	Collar -70	Chapleau Ont	Cochrane Township
Date Hole Started	Date Completed	Date Logged	Logged By	(m) degrees	(m) degrees	Property Name	Easting 331564
28/01/2015	01/02/2015	28/01/2015 to 01/02/2015	I. Therriault	(m) degrees	(m) degrees		Northing 5303338
Exploration Co., Owner or Optionee				(m) degrees	(m) degrees		Datum NAD83_Z17
Probe Mines Limited						Borden	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	2.0	Casing							
2.0	12.8	Diorite	grey	FG	VUG	Diorite. 0.3% pyrite.	2		
12.8	15.1	Amphibolite	green	FG		Amphibolite. Minor vugs. 0.7% pyrite, 0.2% pyrrhotite.	2		
15.1	26.7	Diorite	grey	FMG		Diorite, amphiboles between 16.0-17.05m (foliated; approx. 1% combined pyrite and pyrrhotite) and 24.55-24.8m, 25.85-25.95m. Up to 0.4% pyrite and 0.2% pyrrhotite.	3		2
26.7	31.5	Amphibolite	green	FG	VUG	Amphibolite. Localised weak foliation. 1.4% combined pyrite and pyrrhotite.	1.5		1
31.5	41.3	Diorite	grey	FMG		Diorite. Contains up to 15cm large amphibolite intervals between 31.95-34.35m; amphiboles become more patchy downhole. Minor vugs. Biotite content increases downhole. Sulphides tend to cluster; locally up to 1.3% combined pyrite and pyrrhotite.	3		1
41.3	44.7	Amphibolite	green	FG		Amphibolite. Minor vugs. Contains minor diorite 43.7-44.1m. Massive to very weakly foliated locally. 1.5% pyrite, trace pyrrhotite.	2		1
44.7	47.6	UM\LAMP Dike	dk grey	FCG		Lamprophyre dyke. No visible sulphides.	1		
47.6	50.8	Amphibolite	grey_green	FMG		Amphibole-poor amphibolite. 2% pyrite and up to 1.75% pyrrhotite.	1		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
50.8	52.9	Diorite	grey	FG		Diorite. 0.2% pyrite.	0.5		
52.9	54.8	UM\LAMP Dike	dk grey	FMG		Lamprophyre dyke. No visible sulphides.	0.5		
54.8	74.2	Diorite	grey	FMG		Diorite. Minor vugs.0.35-0.5% pyrite.	1.5		2
74.2	88.6	Diorite	grey	FCG	MELT	Diorite but has localised attributes of FG(s): quartz eyes 74.2-78.25m, 83.35-86.6m and 87.3-88.5m but generally lacks even a weak foliation. Melt textures also observed, so overall more diorite-looking. Weak to moderate potassic alteration, becomes stronger near lower contact. Ultramafic dyke 80.65-81.0: lower 12cm has a blue matrix and contains clasts up to 5cm large that are subrounded to subangular and upper 23cm has mm-scale jasper clasts; looks like uphole fining sequence but with definite chilled margin at lower contact. Other ultramafic dykelet 86.6-87.0m, more typical of lamprophyre type, and 88.5-88.55m. 0.4% pyrite.	0.5		
88.6	98.5	Felsic Gneiss (S)	grey	FCG		FG(s). This unit has more quartz eyes than previous, is better foliated (weak to moderate throughout) and lacks melt textures. Minor vugs. Up to 0.7% pyrite.	0.5		2
98.5	107.5	Diorite	grey	FMG		Diorite. Amphiboles in interval 103.7-107.45m. 0.2-0.3% pyrite.	1.5		
107.5	113.0	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amphibole felsic gneiss. Contains more felsic intervals with less amphiboles. Generally weak to locally strong fabric. Amphiboles are being replaced by biotite, but the degree of replacement varies across unit. Trace pyrite.	10		
113.0	113.6	Pegmatite	beige	FCG		Pegmatite in amphibole felsic gneiss.	2		80
113.6	127.7	Amphibole Felsic Gneiss	grey_green	FCG	POB	Amphibole felsic gneiss. Contains more felsic intervals with less amphiboles. Generally weak to locally strong fabric. Amphiboles are being replaced by biotite, but the degree of replacement varies across unit. Pegmatites occur between 113.55-114.1m. Trace pyrite.	10		2
127.7	129.0	Diorite	grey	FMG		Diorite. 0.3% pyrite.	1		3
129.0	130.1	Amphibolite	grey_green	FMG	VUG	Amphibolite, not very typical looking. 0.5% pyrite.	0.5		
130.1	130.3	Diorite	grey	FMG		Diorite. Very small unit, trace pyrite.	1		
130.3	131.0	Amphibole Felsic Gneiss	grey	FCG	POB	This unit is similar to the felsic portion of the AMPG encountered above (110.3-111.05m). 0.5-1% pyrite.	7		
131.0	132.2	Amphibolite	green	FG		Amphibolite. Diorite 131.75-132m. 0.3-1.5% pyrite.	1.5		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
132.2	134.3	Diorite	grey	FMG		Diorite. Minor vugs. 1% pyrite.	2		
134.3	139.4	Felsic Gneiss (S)	grey	FCG		FG(s). Mostly massive to very weakly foliated. 0.3% pyrite.	1.5		2
139.4	141.7	Diorite	grey	FMG	VUG	Diorite. 0.5-1.5% pyrite.	1		
141.7	144.6	Amphibole Felsic Gneiss	green	FMG	POB	Amphibole felsic gneiss but amphiboles are finer grained than it is typical for this lithology. Biotite is replacing amphiboles and the foliation wrapping around the amphibole porphyroblasts, locally crenulated. Minor vugs. Trace pyrite.	10		
144.6	145.2	Diorite	grey	FMG		Diorite. Trace pyrite.			
145.2	150.5	Amphibolite	grey_green	FG		Amphibolite, amphibole-poor. Weak to moderate epidote alteration. 1% pyrite.	1		2
150.5	156.7	Diorite	grey	FMG		Diorite. Minor FG(s) intervals, up to 15cm large near upper contact. 0.7-1% pyrite.	1		
156.7	158.5	Felsic Gneiss (S)	grey	FMG		FG(s). This unit is nested between two diorites, could also be a more foliated interval of diorite. 0.5% pyrite and trace pyrrhotite.	1.5		
158.5	159.6	Diorite	grey	FMG		Diorite. 2% pyrite.			
159.6	161.1	Quartz Vein	white	FCG		Quartz vein. 1% pyrite and 1% pyrrhotite.	0.5		
161.1	171.5	Felsic Gneiss (S)	grey	FG		FG(s). 1.5% combined pyrite and pyrrhotite.	1.5		2
171.5	173.3	Amphibolite	grey_green	FG		Amphibole-poor amphibolite. 0.5% pyrite and 0.5% pyrrhotite.	1		
173.3	175.0	Diorite	grey	FMG		Foliated diorite. Trace pyrite.			
175.0	176.4	Amphibolite	grey	FCG		Amphibole-poor amphibolite. Total 1.6% combined pyrite and pyrrhotite.	2		10
176.4	177.4	Diorite	grey	FMG		Foliated diorite. Trace pyrite.	2		
177.4	179.9	Amphibolite	green	FG		Amphibole-poor amphibolite. 1% pyrite and 1% pyrrhotite.	2		
179.9	188.3	Felsic Gneiss (S)	grey	FCG		FG(s). Minor quartz eyes and cm-scale intervals with amphiboles. Up to 3% pyrite.			2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
188.3	188.9	Amphibolite	grey	FG		Amphibolite. 1% pyrite and 5% pyrrhotite.	5		
188.9	191.2	Felsic Gneiss (S)	grey	FCG		FG(s). 0.2% pyrite.	3		17
191.2	196.2	Amphibolite	green	FCG		Amphibolite, very heterogeneous, generally fine to medium grained, locally coarse grained. Contains what look like enclaves of the altered ultramafic dyke (amphiboles on fine, light green matrix) and locally some of the coarser grained sections are resembling a finer grained version of an amphibole felsic gneiss. The variation occurs mostly on cm-scale, so the different intervals have not been separated here. Fault 191.15-191.6m. Trace pyrite.	5		
196.2	199.5	Diorite	grey	FMG		Diorite. Weak to moderate potassic and sericitic alteration. Massive to very weakly foliated. Trace pyrite.	2		
199.5	204.6	Felsic Gneiss (S)	grey	FMG		FG(s). Weak to locally moderate-strong potassic and sericitic alteration. Interval 200.0-200.5m has feldspar phenocrysts and is more felsic-looking. 0.3-0.8% pyrite.	1.5		
204.6	205.2	Amphibolite	grey_green	FMG		Amphibolite. 0.4% pyrite.	0.5		
205.2	205.8	Felsic Gneiss (S)	pink	FCG		FG(s). 0.2% pyrite.			
205.8	206.8	UM\LAMP Dike	dk grey	VFG		Dark grey very fine grained ultramafic dyke. Trace pyrite.			
206.8	216.8	Felsic Gneiss (S)	grey	FMG		FG(s). Includes minor diorite (9-13cm large between 215.55-216.216.3m). Localised strong potassic, sericitic and epidote alteration. Biotite strongest in less altered intervals. Trace pyrite.	1.5		10
216.8	217.8	Diorite	grey	FMG		Altered and foliated diorite. No visible sulphides.	1		
217.8	229.1	Felsic Gneiss (S)	grey	FG		FG(s). Most pegmatites are cm to dm-scale and occur between 225.3-227.75m. UM dykelet 222.7-222.8m. Trace pyrite and pyrrhotite.	1		12
229.1	229.8	UM\LAMP Dike	dk grey	VFG		Dark grey very fine grained ultramafic dyke. Fractured. No visible sulphides.			
229.8	237.4	Felsic Gneiss (S)	red	FMG		FG(s). Localised cm-scale quartz pods. Contains minor diorite (232.15-232.4m and 236.3-236.35m). Strong pervasive potassic alteration throughout. Trace pyrite.	0.5		
237.4	238.4	Diorite	grey	FMG		Altered and foliated diorite. Trace pyrite.	1.5		
238.4	244.7	Felsic Gneiss (S)	grey	FMG		FG(s). 0.3% pyrite.	0.5		2
244.7	245.6	Amphibolite	green	FG		Amphibolite. No visible sulphides.	2		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
245.6	247.2	Felsic Gneiss (S)	grey	FMG		FG(s). Moderate pervasive potassic alteration throughout. 0.3% pyrite.	0.5		
247.2	247.7	Amphibolite	grey_green	FG		Amphibole-poor amphibolite. No visible sulphides.	0.5		
247.7	248.5	Felsic Gneiss (S)	grey	FMG		FG(s). 0.4% pyrite.	0.7		2
248.5	249.4	Amphibolite	grey_green	FG		Amphibole-poor amphibolite. Trace pyrite.	2		
249.4	255.1	Felsic Gneiss (S)	grey	FCG		FG(s). A few quartz eyes near upper contact. 4cm large low angle lamprophyre dyke between 253.55-253.9m and folded (fold nose) lamprophyre dyke between 254.2-254.65m. Up to 0.5% pyrrhotite.	2	0.1	4
255.1	258.9	Amphibolite	green	FMG		Amphibolite. Diorite 258.2-258.6m. Up to 1% pyrite and 1.2% pyrrhotite.	1		2
258.9	259.6	Felsic Gneiss (S)	grey	FCG		FG(s). Trace pyrite.	0.5		2
259.6	263.7	Diorite	grey	FMG		Diorite. Massive to weakly foliated. 0.4% pyrite.	1.5		10
263.7	265.8	Felsic Gneiss (S)	grey	FCG		FG(s). 0.5% pyrite and 10cm near lower contact with up to 2% pyrrhotite.			
265.8	267.2	Amphibolite	green	FMG		Amphibolite. 0.4% pyrite and 0.3% pyrrhotite.	0.5		
267.2	272.1	Felsic Gneiss (S)	grey	FCG		FG(s). Most pegmatites are cm-scale up to 15cm large and occur between 267.8-271.15m; very coarse grained biotite associated with them and veining. Diorite (weakly to moderately foliated) 270.45-271.0m (upper contact foliation parallel and lower contact gradational). Up to 1% pyrite.	4		15
272.1	274.2	Amphibolite	green	FMG		Amphibolite. 0.8% combined pyrite and pyrrhotite.	0.5		
274.2	275.2	Felsic Gneiss (S)	grey	FG		FG(s). 0.5% pyrite. *start full sampling	2		2
275.2	276.1	Diorite	grey	FMG		Foliated diorite. 0.5% pyrite.	2		
276.1	276.8	Amphibolite	grey_green	FCG		Amphibolite. 1% pyrite.	0.5		
276.8	278.7	Felsic Gneiss (S)	grey	FMG		FG(s) with several minors: pegmatite (277.1-277.55m), diorite (277.55-277.8m), amphibole-rich diorite (278.15-278.25m) and ultramafic dyke (278.25-278.65m). 0.5% pyrite.	1.5		20

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
278.7	279.2	Amphibolite	green	FG		Amphibole-poor amphibolite. Variable foliation. 0.75% pyrite.	0.5		
279.2	281.1	Felsic Gneiss (S)	grey	FCG		FG(s), becomes diorite-looking near lower contact. Minor quartz eyes. Up to 1% pyrite.	1.5		5
281.1	281.7	Amphibolite	green	FG		Amphibolite. 1% pyrite.	1		
281.7	284.2	Felsic Gneiss (S)	grey	FMG		FG(s). Minor diorite (282.65-283.05m). Up to 0.75% pyrite and trace pyrrhotite.	0.5		12
284.2	286.6	Amphibolite	green	FMG		Amphibolite. 1.2% pyrite and 0.5% pyrrhotite.	0.5	1	
286.6	287.5	UMLAMP Dike	green	VFG		Ultramafic dyke. Trace pyrite.	0.5		
287.5	288.4	Diorite	red	FMG	PEG	Diorite (?) with 80% pegmatite. 0.2% pyrite.			80
288.4	289.7	Amphibolite	grey_green	FG		Altered amphibole-poor amphibolite (?) 0.3% pyrite.	1.5	3	
289.7	290.4	UMLAMP Dike	green	VFG		Ultramafic dyke; contacts do not look like those of a dyke but the unit itself does.			
290.4	292.8	Amphibolite	green	FMG		Amphibolite with amphibole-poor intervals. Generally 1% pyrite and 0.5% pyrrhotite plus 10cm interval with 15% pyrite.	1		
292.8	298.1	Felsic Gneiss (S)	grey	FMG		FG(s). Higher biotite content near upper contact. Altered amphibole felsic gneiss 296.75-297.1m. Up to 1% pyrite and 0.7% pyrrhotite.	4	0.2	15
298.1	302.8	Amphibolite	grey_green	FMG		Amphibolite with sections of garnets (fine to coarse grained, tend to cluster but are found throughout unit; looks like footwall amphibolite almost). 0.5% pyrite and 1% pyrrhotite.	0.5	4	
302.8	305.1	Felsic Gneiss (G)	grey	FCG		FG(g); upper portion 302.75-303.2m is actually Garnet Biotite Felsic Gneiss with trace pyrite and 1% pyrrhotite. Trace pyrite in FG(g).	2		10
305.1	306.6	Felsic Gneiss (S)	grey	FG		FG(s) with high biotite; looks like an altered Garnet Biotite Felsic Gneiss but lacks garnets. 1% pyrite.	10		30
306.6	308.3	Felsic Gneiss (S)	grey	FG		FG(s). Trace pyrite and pyrrhotite plus 15cm interval with 1% pyrite and 0.4% pyrrhotite.	2		
308.3	316.4	Felsic Gneiss (G)	grey	FCG		FG(g). Minor vugs. Largest pegmatite 315.45-315.8m. Core is fractured 315.8-316.3m. Trace pyrite and pyrrhotite.	1		7
316.4	321.6	Amphibolite	grey_green	FCG		Amphibolite with garnets. Ultramafic dyke 321.5-321.6m. Core locally fractured 319.9-321.45m. 2% pyrite.	1	5	

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
321.6	323.4	Garnet Biotite Felsic Gneiss	grey	FG		GBFG with low amount of garnets (very fine to fine grained). 0.6% pyrite.	6	3	
323.4	325.6	Felsic Gneiss (S)	grey	FCG		FG(s); looks like altered Garnet Biotite Felsic Gneiss, but 25cm pegmatite near upper contact. Low garnet GBFG between 324.4-324.75m with 1.5% pyrite. Up to 0.5% pyrite in FG(s).	3		12
325.6	347.0	Felsic Gneiss (G)	grey	FCG		FG(g). Generally poorly foliated, locally moderate. Localised weak alteration. Trace pyrite and pyrrhotite.	2		15
347.0	350.3	Felsic Gneiss (S)	grey	FMG		FG(s). Possible altered GBFG 347.0-347.4m (dark brown, biotite-rich, very soft). 0.5% combined pyrite and pyrrhotite.	1.5		5
350.3	352.6	Diorite	grey	FMG		Diorite (not 100% sure, this is a weird looking unit and the upper 35cm look very different). No visible sulphides.	1		
352.6	353.4	Garnet Biotite Felsic Gneiss	yellow	FMG		Very altered (sericite) GBFG??? No visible garnets but possible remnants. Very soft. Upper 15cm is quartz vein. Trace pyrite.	15		
353.4	354.4	Felsic Gneiss (S)	beige	VFG		Unknown lithology. Upper 10cm are brecciated then down to 354.3m it is a light pinkish brown highly silicified rock; fine to medium grained quartz crystals (rounded to elongate) are visible. No visible sulphides.			
354.4	355.0	Felsic Gneiss (S)	grey	FCG		FG(s), strongly silicified. 0.3% pyrite.	1		2
355.0	357.4	Diorite	grey	FMG		Diorite, similar to 350.3-352.55m. No visible sulphides.	1		
357.4	358.1	Felsic Gneiss (S)	grey	FMG		FG(s). Massive to very weakly foliated. Trace pyrite.	2		
358.1	361.7	Garnet Biotite Felsic Gneiss	grey	FMG		Garnet Biotite Felsic Gneiss. Foliated but foliation tends to be irregular. 1% combined pyrite and pyrrhotite. *start of mineralisation envelope	12	5	
361.7	362.9	Felsic Gneiss (S)	grey	FMG		FG(s). Quartz flooded. 0.2% pyrite and 0.4% pyrrhotite. *One speck of VG at 362.29m and one speck at 362.75 (0.5mm large). *beginning of high grade zone.	2		15
362.9	365.0	Garnet Biotite Felsic Gneiss	grey	FMG		Garnet Biotite Felsic Gneiss; amount of garnet decreases downhole, so more a biotite-rich FG(s) near lower contact. Includes minor diorite (362.95-363.15m). 1.2% pyrite and 1.7% pyrrhotite.	15	3	15
365.0	366.2	Felsic Gneiss (S)	grey	FMG		FG(s). Quartz flooded. 1% pyrite and 1% pyrrhotite. *Seven specks of VG between 365.65-365.7m in a quartz vein.	5		
366.2	367.4	Quartz Vein	white	FCG		Quartz vein with minor pegmatitic sections. Trace pyrite. *Total of 5 isolated specks of VG between 366.19-366.24m, one at 366.39m, one at 366.42m, one at 366.44m (almost 2mm large) and one at around 366.6m.	1		5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
367.4	369.9	Felsic Gneiss (S)	grey	FMG		FG(s). Quartz flooded. Total 0.5% combined pyrite and pyrrhotite. *2 specks of VG occurring together at 367.45m on edge of biotite crystal, cluster of 5 specks plus 3 pin pricks at 367.68m on edge of altered feldspar, one speck at 367.73m in quartz vein.	4		15
369.9	372.2	Felsic Gneiss (S)	grey	FG		FG(s). 0.5% combined pyrite and pyrrhotite.	2		
372.2	373.5	Pegmatite	grey	FCG		Pegmatite. 0.5% pyrite and 2% pyrrhotite.	8		
373.5	374.5	Felsic Gneiss (S)	grey	FG		FG(s). 0.3% pyrrhotite.	2.5		
374.5	376.1	Amphibolite	green	FMG		Amphibolite. Foliated but foliation appears irregular. 0.5% pyrrhotite.	1		
376.1	378.3	Felsic Gneiss (S)	grey	FMG		FG(s). Largest pegmatite 377.1-377.75m. 0.2% pyrrhotite.	3		35
378.3	393.0	Amphibolite	grey_green	FCG		Footwall amphibolite. Up to 1% pyrite and 3% pyrrhotite. EOH=393m.	1	5	

Drilling Company Major	Core Size HQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 378	Dip of Hole At Collar -45	Location where core stored Chapleau, Ont.	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 31/01/2015	Date Completed 03/02/2015	Date Logged 31/01/2015 to 03/02/2015	Logged By J. Klarner	(m) degrees	(m) degrees	Property Name Borden	Easting 331652
Exploration Co., Owner or Optionee Probe Mines Limited				(m) degrees	(m) degrees		Northing 5303285
				(m) degrees	(m) degrees		Datum NAD83_Z17

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	6.0	Casing							
6.0	13.5	Diorite	grey	FMG	POR	UM/Lamp dyke at 6.4-6.5m.	5	0	0
13.5	23.8	Felsic Gneiss (S)	grey	FMG		1-3% hornblende in localized bands. Amphibolite at 18.6-18.8m. Foliation is very weak but lacks porphyritic texture of the diorite above.	10	0	0
23.8	28.9	Felsic Gneiss (S)	grey	FG		Similar to the unit above but lacks the hornblende mineralization. Contains thin sections that have 1-2% coarse grained quartz eyes. Pegmatite at 28.6-28.7m.	7	0	0.5
28.9	29.9	Diorite	grey	FMG	POR		5	0	0
29.9	39.8	Felsic Gneiss (S)	grey	FMG		Biotite is locally variable with localized concentrations up to 15%. Contains localized amphibole rich areas (<3% hornblende). UM/Lamp dyke at 33.6-33.8m. Amphibolite at 38.7-39.1m. Lower contact is gradational.	5	0	0
39.8	41.0	Amphibolite	green	FMG			15	0	0
41.0	47.0	Felsic Gneiss (S)	grey	FG		Amphibolite at 45.5-45.7m and 45.8-45.9m.	7	0	0.5
47.0	50.0	Amphibolite	green	FG		Sections of Felsic Gneiss (S) at 47.4-47.7m and 48.4-48.6m.	10	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
50.0	53.4	Felsic Gneiss (S)	grey	FMG	VUG	Felsic Gneiss (S) with minor lenses of amphibolite. Amphibolite from 52.4-53m. Vuggy locally.	12	0	0
53.4	56.7	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR	cm sized phenocrysts. Chlorite replacing biotite weakly.	30	0	0
56.7	101.9	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss with minor areas of coarser grained gneiss. 2%qtz-carb stringers with weak-mod potassic-sericitic alteration throughout. Pegmatite from 57.7-58.4m. Quartz Vein from 59.8-60.2m. Local patches of more moderate silica alteration. Lower contact of unit mod-strongly potassic altered (94.9-101.9m) with associated increase in pyrite mineralization. Weird totally baked up and altered unit from 73.7-73.9m, white, almost sandy?, possibly part of a fault or hydrothermal event?. Same alteration to a lesser extent is happening from 87.4-88m, and from 89-89.2m, only weakly carb altered.	7	0	2
101.9	108.0	Amphibole Felsic Gneiss	grey_green	FCG	POC	Amphibole Felsic Gneiss with cm-sized amphibole porphyroclasts, biotite rims being replaced with chlorite. Top of unit is strongly sericite altered.	25	0	0
108.0	109.9	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with cm sized qtz eyes. 1% qtz-carb stringers (potassic alteration assoc.), potassic alteration increases down unit towards amphibolite.	8	0	1
109.9	111.7	Amphibolite	grey_green	FMG		Biotite-rich amphibolite. Very locally epidote-sericitic altered (very yellow) at upper contact from 109.9-110.8m, and locally at 111.3-111.5m. 1%qtz veining recrystallized with quartz and biotite (along a 20degree to core axis plane).	6	0	0
111.7	113.1	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with moderate-strong potassic alteration throughout.	6	0	0
113.1	121.5	Amphibole Felsic Gneiss	grey_green	FCG	POC	1% qtz-carb veinlets throughout with strong associated epidote-sericitic and weak potassic alteration.	30	0	1
121.5	131.9	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with local zones of coarser grained gneiss. 1-2%qtz-carb stringers with associated weak potassic-sericitic alteration. Local lenses of more amphibole-rich gneiss with associated pyrite. Amphibolite from 123.5-123.9m. Pegmatites from 129.1-129.35m, 130.6-130.85m (coarse-grained, potassic, 1%py, 10%biotite).	8	0	5
131.9	132.0	Pegmatite	pink	MCG	PEG	Pegmatite with mod-strong potassic alteration. Breccia from 131.85-131.9m.	7	0	85
132.0	138.8	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor lenses of amphiboles and biotite rich rock. Local bands of amphiboles and biotite have associated pyrite. 3% qtz-carb stringers with assoc. weak sericite-potassic alteration. Ultramafic Dike from 137.25-137.4m (associated moderate potassic alteration). Pegmatite from 138.3-138.65m.	15	0	4
138.8	143.3	Amphibolite	grey_green	FMG		Amphibolite with minor lenses of Felsic Gneiss (S) and pegmatite. One more biotite rich (ultramafic amphibolite?) from 139.1-139.55m. Felsic Gneiss (S) from 140.2-140.55m. Fault from 140.8-141m (brecciated followed by fault gouge).	3	0	3
143.3	146.6	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S). 4% qtz-carb stringers with associated weak potassic-sericite alteration. Qtz eyes locally (up to cm big). Local lenses of more biotite-amphibole rich rock.	5	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
146.6	149.7	Amphibolite	grey_green	FG	VUG	Amphibolite with 1%qtz-carb stringers with associated weak potassic-reibekite alteration. Weak epidote alteration with local tiny mm vugs.	2	0	0
149.7	151.7	Diorite	grey_white	FCG	POR	Diorite with local potassic alteration from 151.3-151.65m (associated with a 2cm pegmatite and qtz-carb stringers). Bottom contact strongly sericite altered. 2% qtz-carb stringers with associated potassic-sericite (weak) alt.	10	0	1
151.7	152.8	Amphibolite	grey_green	FMG		Biotite-rich amphibolite.	15	0	0.5
152.8	155.2	Diorite	grey	FCG	POR	Diorite. 2% qtz-carb stringers with associated potassic-sericitic alteration (weak).	8	0	0
155.2	158.7	Amphibolite	grey_green	FMG		Biotite-rich amphibolite. 1% qtz-carb stringers with weak potassic alt. Local epidote-carb alteration with associated pyrite. Tiny less than 1mm specks of garnets.	15	0.5	0
158.7	159.9	Felsic Gneiss (S)	grey	FMG		1% qtz-carb stringers with associated sericite-potassic alteration (weak).	5	0	0
159.9	164.2	Diorite	grey_white	FCG	POR	Diorite with 2-3% qtz-carb stringers with associated weak-mod potassic alteration. Up to 0.75cm phenocrysts of feldspar.	6	0	0
164.2	173.9	Amphibolite	grey_green	FMG		Amphibolite with an ultramafic dike intruding from 165.85-166.2m, and at 166.8-167.6m. 3% qtz-carb stringers cross-cutting and following foliation (weak epidote-potassic alteration assoc.) as well as pygmatic. Lower contact of the dike has stringers of qtz with associated reibekite alteration (weak-mod). Minor Felsic Gneiss (S) unit from 172-173m. Minor quartz veining at lower contact with associated pyrite and moderate chlorite-potassic alteration along selvages.	2	0	1
173.9	175.2	Quartz Vein	white	CG		Bull white Quartz Vein with minor selvages of biotite, chlorite and associated potassic alteration and pyrite. Py and po associated in selvages in vein and along contact boundaries with the amphibolite.	0.5	0	0
175.2	182.2	Amphibolite	grey_green	FMG	BND	Amphibolite with minor lenses of felsic gneiss (S) and diorite throughout with bands of epidote-carb alteration and assoc. pyrite. Local qtz vein at upper contact from previous intrusion at 175.85-176.1m with nice blebs of pyrite (~7%py, 2%po) associated with chlorite along contact. Diorite from 178.5-178.95m. Felsic Gneiss (S) from 180.9-180.95m, 181.05-181.7m, 181.9-182m.	3	0	0.5
182.2	184.0	Felsic Gneiss (S)	grey	FCG			5	0	0
184.0	190.0	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with no qtz eyes grading into a coarser grained texture. Local qtz/pegmatite veining cross-cutting foliation at 187.3-187.5m, 187.6-187.8m, 187.9-188.1m, 188.3-188.55m (all coarse-grained, pyrite associated along selvages in up to 2cm blebs, minor biotite, trace po, trace cpy). No good contact measurement on veining (about 60 degrees to c.a.). Trace qtz-carb stringers with weak potassic-sericite alt.	13	0	30

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
190.0	197.5	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with lenses of amphiboles. Local vugs with associated epidote-carb and pyrite. 1%qtz-carb stringers with associated sericite (weak) alteration.	8	0	0.5
197.5	207.4	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with minor units and lenses of diorite, and amphibolite. Diorite from 199.65-199.9m, 201.2-202.1m following foliation. Trace-1% qtz-carb stringers with associated potassic-sericitic alteration (weak-mod). Locally a bit coarser grained. Pegmatite from 206.7-206.8m.	8	0	2
207.4	223.0	Felsic Gneiss (S)	grey	FCG		Coarse-grained Felsic Gneiss (S) with 2% qtz-carb stringers and veinlets with associated weak-moderate potassic+sericitic alteration. Minor zone of blocky core with associated breccia from 207.6-208m. Pegmatites throughout, one major at 219.25-219.55m (10%biot, 30%felds, 60%qtz).	7	0	3
223.0	224.9	UM\LAMP Dike	dk grey	VFG		Ultramafic Dike with cm chill margins on both ends. Magnetic, up to cm sized xenoliths of olivine? 2% qtz-carb stringers following foliation.	3	0	0
224.9	227.9	Amphibolite	grey_green	FMG		Biotite-rich Amphibolite. Trace qtz-carb stringers with weak potassic alteration assoc. Potassic alteration in banding that is moderate. Trace mm garnets throughout.	25	0.2	0.5
227.9	231.8	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with minor amphibole bands. Moderate-strong potassic alteration at 229.5-229.85m (possibly an amphibolite?). 3% qtz-carb stringers throughout with associated moderate potassic-sericitic alteration x-cutting foliation.	5	0	2
231.8	238.4	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with nice qtz eyes throughout (cm sized). Po starts to increase, start of bulk sampling. Py+po also associated with pegmatite bands. Weak-moderately siliceous. Moderate sericite and weak potassic-epid alteration from 234-234.2m.	12	0	4
238.4	239.4	Diorite	grey_white	FCG	POR	up to cm phenocrysts of feldspar, weak potassic alteration throughout. Trace qtz-carb stringers with weak sericitic-potassic alteration.	10	0	0.5
239.4	240.6	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with cm sized qtz eyes. Weak potassic alteration associated with trace qtz-carb stringers.	10	0	1
240.6	242.0	Felsic Gneiss (S)	grey_green	FMG	VUG	Felsic Gneiss (S) with minor bands of amphibolite and pegmatites with associated pyrite. Locally vuggy, carb-epidote alteration weak to moderate. Moderately silicified. Pegmatite with associated po+py from 241-241.2m (silicified 30%biotite). Amphibolite from 241.5-241.75m.	12	0	5
242.0	243.7	Diorite	grey_green	FCG	POR	mm feldspar phenocrysts, moderate foliation. Trace stringers of qtz-carb with weak potassic alteration. Trace qtz-carb veinlets (almost following foliation with moderate potassic alt).	6	0	0
243.7	252.0	Felsic Gneiss (S)	grey	FMG		Felsic Gneiss (S) with banding of amphiboles and minor pegmatites throughout. One pegmatite from 244.5-244.6m with nice euhedral feldspar and about 30%biot, 1.5%po, 1%py. Quartz Vein/Pegmatite from 250.6-251m with a nice 2cm bleb of po (2%po, 1.5%py) and chlorite alteration in selvages. One Major unit of amphibolite from 251-251.3m (with trace garnets and local epidote alt., 1.3%py, 0.5%po). Local chlorite and epidote blebs with associated py+po.	15	0	2
252.0	255.3	Amphibolite	grey_green	FMG		Amphibolite with minor lenses of Felsic Gneiss (S). Feldspars almost have a snowflake texture. Trace garnets locally.	4	0.5	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
255.3	265.8	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with minor pegmatites, coarse-grained. Pegmatite from 256.35-256.55m (with 5%biotite in cm crystals, 1%muscovite, 1%py, 0.5%po). Trace local garnets. Pegmatite rich at lower contact, pegmatites from 264.5-264.6m, 264.85-265.8m (with chlorite alteration (green feldspar?), 15%biot, weak potassic alteration, ~1% py+po).	10	0.1	4
265.8	267.1	UM\LAMP Dike	dk grey	VFG		Ultramafic Dike with mm feldspar xenoliths and olivine xenoliths? Upper contact has associated weak reibekite+chl alteration.	5	0	0
267.1	267.9	Felsic Gneiss (S)	grey_green	FCG		Felsic Gneiss (S) with a coarse-grained texture and lots of biotite, Weak-moderately ser-epid altered. Minor ultramafic dikes cross-cutting lithology.	20	0	0
267.9	269.0	UM\LAMP Dike	dk grey	VFG		Ultramafic Dike, magnetic, mm feldspar phenocrysts.	3	0	0
269.0	275.9	Amphibolite	grey_green	FMG	BND	Amphibolite and Felsic Gneiss (S) interbanded. Almost looks like footwall amphibolite? Local epidote-chlorite alteration throughout with nice associated po+py.	5	0	0.5
275.9	276.6	Pegmatite	white	MCG	PEG	Pegmatite with local weak chlorite (green feldspar?) alteration. Po+py associated together in blebs in fractures (and along vein selvages) and in qtz. Follows foliation.	15	0	95
276.6	281.5	Diorite	grey_white	FCG	POR	Silicified Diorite with mm feldspar phenocrysts. 1% tz-carb stringers cross-cutting and following foliation.	15	0	0
281.5	285.3	Felsic Gneiss (S)	grey	FMG	VUG	Felsic Gneiss (S) with minor vuggy spots and associated carb-epidote alteration (weak). Trace stringers following foliation with weak-moderate potassic alteration.	8	0	1
285.3	286.1	Amphibole Felsic Gneiss	green_pink	FCG		Very strained Amphibole Felsic Gneiss with minor pegmatite at the end of unit. Moderate-strong potassic alteration in feldspar matrix . Pegmatite at lower contact from 286-286.1m (strong potassic alt at selvages with 20%biotite (altered by chlorite) 1%py assoc.)	8	0	3
286.1	295.1	Felsic Gneiss (S)	grey	FCG		Felsic Gneiss (S) with 3%stringers cross-cutting and following foliation (associated weak potassic-sericitic alteration). Pegmatites throughout 288.8-288.9m, 289.4-289.5m, 292.25-292.45m.	12	0	10
295.1	296.2	UM\LAMP Dike	green_pink	VFG		Fingers of Ultramafic Dike intruding Felsic Gneiss (G?) Mainly dike, but almost 50/50. Chill margins on dike, dike is altered by epidote (moderate). Pyrite associated in the gneiss portions. Potassic alteration in gneiss portions is moderate.	4	0	0
296.2	298.3	Felsic Gneiss (G)	pink	FCG		Felsic Gneiss (G) but with major amounts of pegmatite and minor intrusions of ultramafic dike. Core is a bit blocky and there is a unit of very blocky core from 296.2-296.3m (assoc with contact of dike).	10	0	60
298.3	303.1	Felsic Gneiss (G)	pink	FCG		Felsic Gneiss (G) with nice cm blebs of muscovite. Moderate potassic-sericitic alteration throughout.	3	0	5
303.1	304.0	Felsic Gneiss (S)	green_pink	FCG		Very foliated Felsic Gneiss (S) with lots of hornblend.	5	0	0
304.0	315.4	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with minor cross-cutting ultramafic dikelets. Closer to lower contact there is an increase in banding of sulphides. Ultramafic Dikelets at 310.55-310.75m, 310.95-311.1m (both less than 4cm thick).	3	0	5

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
315.4	316.4	Diorite	grey_white	FCG	POR	mm phenocrysts of feldspar, weak potassic alteration throughout.	6	0	0
316.4	317.3	Felsic Gneiss (G)	beige	FCG		Felsic Gneiss (G) with mod potassic/ser alt.	2	0	0
317.3	318.4	Diorite	grey_white	FCG	POR	Mostly Diorite, minor qtz/pegmatite veining from 317.6-317.9m (with associated weak brecciation and 1%pyrite), minor Felsic Gneiss (S) that grades into diorite. Feldspar phenocrysts are not prominent, but overprinted by silica-sericite alt? Weak-mod riebeckite alteration from 317.9-318m.	5	0	20
318.4	327.0	Felsic Gneiss (G)	pink	FCG		Felsic Gneiss (G) with minor ultramafic dikelets cross-cutting lithology at 319.65-319.75m, 322-322.15m. Minor pegmatites throughout. One major one at 320.1-320.3m (Potassicly altered, trace py). Sulphides increase down unit in bands towards ultramafic dike. Small breccia from 324.3-324.4m. Potassic alteration increase down unit.	5	0	5
327.0	333.0	UM\LAMP Dike	grey_green	FMG		Biotite rich ultramafic dike with moderate-strong chlorite alteration. 1% qtz-carb veinlets with associated potassic alteration (strong) at contact and within veins. Biotite replacing the magnetite. Mm sized feldspar-calcite xenoliths.	30	0	0
333.0	335.2	Garnet Biotite Felsic Gneiss	green_pink	FMG	POC	Garnet Biotite Felsic Gneiss, highly silica altered and baked up from ultramafic intrusion. Hard to even distinguish otherthan presence of garnets. Strong riebeckite alteration. Moderate-strong chlorite alt in stringers. Moderate potassic alteration throughout. 1% qtz-carb veinlets with contact halos of strong potassic alteration.	8	20	0
335.2	341.1	UM\LAMP Dike	grey_green	FCG		Ultramafic Dike with strong chlorite alteration. 1-2% qtz-carb stringers. Biotite decreases down unit towards lower contact. Looks like dike intruded in pulses and the inner core has the most (and biggest) biotite and biggest feldspar xenoliths that decrease in size down unit. Chilled lower margin; 4-5cm with abundant mm scale xenoliths.	20	0	0
341.1	348.3	Quartz Feldspar Porphyry (QFP)	dk grey	FCG	POR	Weak to moderately foliated quartz-feldspar porphyry with local texture variation and finer grained banded intersection from 344.5-346.35m (possibly a small unit of fg(S)). Minor biotite alteration along foliation planes. Slight potassic staining In feldspar phenocrysts. Trace vf-fgr disseminated sulphides.	8	0	0
348.3	361.6	Felsic Gneiss (G)	grey	FCG	PEG	Felsic gneiss with local variable texture and common pegmatite intercallations. Moderate to strong biotite alteration, locally intense. Patchy sericitic alteration around mm veinlets. Common quartz flooding and minor pegmatite intervals from 353.60-355.30m, 358.90-359.45m and 360.20-360.70; minor feldspar and patchy sulphide blebs. Increased alteration from 357.50- 361.60m; common sillimanite-muscovite-biotite. Minor potassic alteration halos around veinlets/fractures local to pegmatite intervals.	10	0	10
361.6	375.8	Amphibolite	green	FCG	POB	Footwall amphibolite. Common fg-cgr garnet aggregates, minor felsic banding and occasional biotite bands. Local pegmatite band with coarse biotite aggregates, common feldspar and smokey quartz. Patchy sericitic bands along foliation planes. Ultramafic Dikes from 367.7-367.8m, 374.4-374.8m with minor chill contacts and look to have multiple pulses of magma, fg, chlorite altered.	3	10	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
375.8	378.0	Garnet Biotite Felsic Gneiss	grey_black	FCG	POB	Well foliated garnet-biotite felsic gneiss with abundant garnet aggregates; fg-cgr porphyroblasts. Intense biotite alteration throughout and common sillmanite wisps along foliation. Rare disseminated pyrite and local pyrrhotite aggregates. Trace qtz-carb stringers with weak potassic alteration, increasing down unit. (part of the footwall?).	50	30	0

Drilling Company Major	Core Size NQ	Collar Elevation (m) 431	Bearing of Hole from true North 205	Total Depth (m) 403	Dip of Hole At Collar -85	Location where core stored Chapleau, Ont	Location of DDH (TWP, Lot, Con, LatLong) Cochrane Township
Date Hole Started 29/01/2015	Date Completed 03/02/2015	Date Logged 29/01/2015 to 03/02/2015	Logged By N. Lintner	(m) degrees	(m) degrees	Property Name Borden	Easting 331522 Northing 5303363 Datum NAD83_Z17
Exploration Co., Owner or Optionee Probe Mines Limited					(m) degrees		
					(m) degrees		

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
0.0	3.7	Casing							
3.7	8.8	Amphibolite	green	FMG		Minor diorite at 7.6-8.2m. Lower contact is in rubble.	10	0	0
8.8	14.3	Diorite	grey	FG	POR	Poorly developed porphyritic texture. No strong foliation.	7	0	0
14.3	20.1	Amphibolite	green	FMG		Diorite sections at 16.1-16.3m and 17.1-17.3m.	15	0	0
20.1	23.0	Diorite	grey	FMG	POR	Poorly developed porphyritic texture.	10	0	0
23.0	26.8	Amphibolite	green	FMG			15	0	0
26.8	28.9	Diorite	dk grey	FMG	POR	Locally variable porphyritic texture. Lower contact is in rubble.	7	0	0.5
28.9	30.6	Amphibolite	green	FG			10	0	0
30.6	54.3	Diorite	grey	FMG	POR	Intermixed with sections of Felsic Gneiss (S). Amphibolite at 43.5-44.0m. Rare blue amphiboles from 37.3-38.3m. Pegmatite at 41.2-41.3m and 42.7-42.8m.	7	0	1

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
54.3	55.2	UM\LAMP Dike	beige	FMG		Weakly brecciated.	0	0	0
55.2	62.7	Diorite	grey	FMG	POR		10	0	0.1
62.7	71.4	Felsic Gneiss (S)	grey	FCG	POB	1-3% coarse grained quartz eyes. Weakly foliated.	7	0	2
71.4	72.7	Diorite	grey	FMG	POR		5	0	0
72.7	75.3	Felsic Gneiss (S)					5		0.3
75.3	84.8	Diorite	grey	FMG	POR	Localized sections of Felsic Gneiss (S). Felsic Gneiss (S) at 77.6-78.4m.	7	0	1
84.8	89.2	Felsic Gneiss (S)	dk grey	FG			15	0	0
89.2	104.0	Diorite	grey	FMG	POR	Amphibolite at 100.7-101.0m.	5	0	0
104.0	105.5	Felsic Gneiss (S)	dk grey	FG			7	0	0
105.5	149.7	Diorite	grey	FMG	POR	Localized variations in the colour of the rock dependant on the level of alteration. Some areas are red. Small section of Amphibole Felsic Gneiss at 126.5-126.8m. Biotite rich section from 129.0-129.5m. Pegmatite at 135.9-136.2m, 140.1-140.3m, and 141.6-141.7m.	7	0	0
149.7	151.2	Diabase Dike	dk grey	FG		Contacts are in rubble.	0	0	0
151.2	160.0	Felsic Gneiss (S)	red	FCG	POB	1-3% coarse grained quartz eyes. Amphibolite at 157.5-157.8m.	5	0	1
160.0	161.3	Amphibolite	green	FG			7	0	0
161.3	162.4	Felsic Gneiss (S)	red	FG		Amphibolite at 161.6-161.9m.	10	0	0
162.4	164.0	Amphibolite	green	FMG		Felsic Gneiss (S) at 162.7-162.9m.	10	0	0
164.0	165.2	Felsic Gneiss (S)	red	FG		Has a weak porphyritic texture. Amphibolite at 164.2-164.3m.	10	0	0
165.2	166.5	Amphibolite	green	FG			7	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
166.5	167.5	Felsic Gneiss (S)	red	FG		Hematite is concentrated within a vein. Alteration is pervasive but speckled.	2	0	0
167.5	168.6	Amphibolite	green	FG			10	0	0
168.6	170.2	Felsic Gneiss (S)	red	FG		Intermixed with amphibolite throughout in irregular patches.	10	0	2
170.2	173.8	Amphibolite	green	FG		Amphibolite has lots of contamination and alteration compared to units at the top of the hole. Several small (<10cm) of heavily altered Felsic Gneiss (S).	10	0	2
173.8	175.8	Felsic Gneiss (S)	red	FG		Heavily altered.	1	0	0
175.8	177.4	Amphibolite	green	MG		"Ultramafic amphibolite" Contains several cm sized inclusions of the altered Felsic Gneiss (S) unit.	20	0	0
177.4	182.9	Diabase Dike	black	VFG		Diorite at 180.4-180.8mm.	0	0	0
182.9	190.1	Amphibolite	green	FG		Diorite at 186.3-186.4m.	10	0	0
190.1	193.4	Diabase Dike	black	VFG			0	0	0
193.4	196.9	Amphibolite	green	FG		Becomes intermixed with thin (<10cm wide) sections of Felsic Gneiss (S) after 195.4m. Section of Felsic Gneiss (S) at 195.4-195.8m.	10	0	0
196.9	197.9	Amphibole Felsic Gneiss	pink	FCG	POB	3-10% coarse grained amphibole porphyroblasts in a fine grained felsic matrix.	3	0	0
197.9	204.7	Amphibolite	green	FG		Pegmatite at 198.3-198.6. Felsic Gneiss (S) at 200.5-200.7m.	5	0	2
204.7	210.5	Felsic Gneiss (S)	grey	FG		Foliation and alteration intensity decreases slightly after 206.6m.	7	0	2
210.5	214.5	Felsic Gneiss (S)	grey	FCG	POR	1-2% coarse grained quartz eyes. Quartz vein at 211.4-211.5m.	3	0	0.2
214.5	221.7	Felsic Gneiss (S)	red	FG		Well developed porphyritic texture and sharp contacts.	5	0	3
221.7	222.9	Diorite	red	FCG	POR		10	0	0
222.9	223.7	Felsic Gneiss (S)	red	FG		Localized dioritic sections.	10	0	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
223.7	226.5	Felsic Gneiss (G)	beige	FG		Pegmatite at 223.8-224.0m and 225.0-225.4m.	3	0	15
226.5	229.6	Pegmatite	red	CG		Felsic Gneiss (G) at 228.1-228.2m	2	0	90
229.6	230.4	Felsic Gneiss (S)	red	FG		Localized sections of Felsic Gneiss (G).	7	0	3
230.4	232.3	Diorite	red	FMG	POR	Well developed porphyritic texture with sharp contacts.	15	0	0
232.3	240.9	Felsic Gneiss (S)	red	FG			2	0	0
240.9	242.1	Amphibolite	green	FG		Felsic Gneiss (S) at 241.5-241.7m.	5	0	0
242.1	245.9	Felsic Gneiss (S)	grey	FG		Amphibolite at 223.8-224.0m and 244.4-244.6m. Several other thin (<3cm wide) of amphibolite throughout.	12	0	0
245.9	246.9	Amphibolite	green	FG			15	0	0
246.9	248.7	Felsic Gneiss (S)	grey	FG			10	0	2
248.7	249.9	Quartz Feldspar Porphyry (QFP)	grey_white	FCG	POR		30	0	0
249.9	258.9	Felsic Gneiss (S)	grey	FG		Pegmatite at 254.0-254.3m and 256.5-256.7m. Diorite at 257.2-257.4m. Biotite content decreases slightly downunit from 10% to 5%.	7	0	3
258.9	264.3	Amphibolite	green	FMG		Quartz vein at 261.3-261.4m. Felsic Gneiss (S) at 263.2-263.8m.	25	0	0
264.3	266.4	Felsic Gneiss (S)	grey	FCG	POR	1-2% coarse grained quartz eyes.	3	0	0
266.4	268.1	Amphibolite	green	FG			15	0	0
268.1	274.7	Felsic Gneiss (S)	grey	FG		Contains 2-3% coarse grained biotite porphyroblasts at 270.1-270.2m. Amphibolite at 272.6-272.7m and 274.3-274.4m.	3	0	1
274.7	277.1	Diorite	red	FMG	POR	Well developed porphyritic texture and sharp contacts.	7	0	0
277.1	281.2	Felsic Gneiss (S)	grey	FG		Pegmatite at 277.7-278.3m and 279.0-279.3m.	3	0	15

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
281.2	282.3	Amphibolite	green	FG			10	0	0
282.3	283.6	Amphibolite	green	FG		Heavily altered. UM/Lamp dyke at 282.7-282.8m. Quartz-carbonate flooding at 282.3-282.7m. Colour is a light olive green.	3	0	0
283.6	288.1	Amphibolite	green	FG			15	0	0
288.1	289.6	Pegmatite	pink	CG		Biotite content is locally variable from 7-20%.	15	0	98
289.6	290.4	Felsic Gneiss (S)	pink	FMG	POB	1-3% medium grained quartz eyes.	3	0	0
290.4	291.6	Diorite	red	FMG	POR	Well developed porphyritic texture and sharp contacts.	15	0	0
291.6	292.1	Felsic Gneiss (S)	beige	FMG	POB	1-3% medium grained quartz eyes.	2	0	0
292.1	295.4	Felsic Gneiss (S)	grey	FG		Large sections of breccia throughout.	2	0	1
295.4	297.7	Felsic Gneiss (S)	grey	FCG	POB	1-3% coarse grained quartz eyes. Pegmatite at 297.1-297.2m.	3	0	1
297.7	299.6	Felsic Gneiss (S)	grey	FMG		Localized variations in biotite content up to 20%.	15	0.1	3
299.6	300.3	Pegmatite	pink	MCG			15	0	100
300.3	302.5	Felsic Gneiss (S)	grey	FMG			3	0	3
302.5	303.4	Amphibolite	green	FMG		Amphiboles are coarse grained then most amphibolites in this units and the concentration is lower.	12	0	1
303.4	304.2	Felsic Gneiss (S)	grey	FG			3	0	0
304.2	306.6	Diorite	dk grey	FMG	POR	Porphyritic texture is only moderately well developed. Upper contact is gradational. UM/Lamp dykes at 304.4-304.9m and 305.5-306.3m	15	0	0
306.6	312.6	Amphibolite	green	FG	BND	Pegmatite at 310.3-310.6m. Biotite rich section at 310.6-311.1m with up to 30% biotite. Alternating dark and light green bands.	15	0	2
312.6	314.1	Felsic Gneiss (S)	grey	FG		1% medium grained quartz eyes. Lower contact is in rubble.	5	0	2

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
314.1	315.5	Amphibolite	green	FG			12	0	0
315.5	316.3	Pegmatite	beige	MG		Felsic Gneiss (S) at 315.5-315.8m.	3	0	60
316.3	316.9	Diorite	dk grey	FMG	POR		20	0	0
316.9	318.1	Felsic Gneiss (G)	lt grey	FG		Localized sections of Felsic Gneiss (S). Pegmatite at 316.9-317.1m and 317.9-318.0m.	3	0	30
318.1	318.8	Amphibolite	green	FG			20	2	0
318.8	320.0	Pegmatite	pink	MCG		Felsic Gneiss (S) at 319.5-319.8m.	2	0	70
320.0	324.0	Amphibolite	green	FMG		Diorite at 322.0-322.3m.	20	3	0
324.0	327.6	Felsic Gneiss (S)	grey	FMG	BND	Localized clustering of biotite defines the banding. Pegmatite at 326.7-326.8m.	12	0	3
327.6	328.9	Amphibole Felsic Gneiss	grey	FCG	POB	Coarse grained amphibole porphyroblasts are being replaced with biotite.	25	0	0
328.9	331.7	Diorite					4	0	1
331.7	333.5	Garnet Biotite Felsic Gneiss	grey_black	FCG		Pegmatite at 331.8-332.0m and 332.5-332.8m..	35	12	5
333.5	335.8	Amphibolite	green	FG			30	5	0
335.8	337.2	Garnet Biotite Felsic Gneiss	green_pink	FCG		Intermixed with sections of Amphibolite.	30	5	0
337.2	340.6	Felsic Gneiss (G)	pink	FG		Garnet Biotite Felsic Gneiss at 339.4-339.7m.	3	2	1
340.6	342.9	Garnet Biotite Felsic Gneiss	green_pink	FMG			30	2	1
342.9	344.2	Felsic Gneiss (G)	beige	FG		Heavily altered.	20	0	0
344.2	345.4	Garnet Biotite Felsic Gneiss	grey	FCG			30	5	0

From	To	RockType	Colour	Grain Size	Texture	Description	Bio %	Gt %	Peg %
345.4	346.5	Felsic Gneiss (G)	pink	FCG			3	0	10
346.5	350.4	Garnet Biotite Felsic Gneiss	dk grey	MG		Biotite rich section at 347.5-347.7m with biotite concentration up to 60%. Pegmatite at 347.7-347.9m and 348.0-348.1m. Seam of pyrite 3mm wide at 349.0m.	40	3	0
350.4	352.4	Amphibolite	green	FG			7	5	0
352.4	353.5	Felsic Gneiss (G)	pink	FMG			5	0	3
353.5	357.3	Amphibolite	green_pink	FG		Quartz vein at 353.6-353.9m and 354.6-355.0m. Pegmatite at 355.9-356.2m. Localized sections of Garnet Biotite Felsic Gneiss.	35	7	5
357.3	358.1	Felsic Gneiss (S)	grey	FG			5	0	0
358.1	358.9	Pegmatite	white	MCG			3	0	95
358.9	359.4	Felsic Gneiss (G)	lt grey	FMG			7	0	10
359.4	360.2	Garnet Biotite Felsic Gneiss	dk grey	FMG			15	2	5
360.2	361.5	Felsic Gneiss (G)	pink	FG			5	0	10
361.5	362.6	UMLAMP Dike	black	FG			0	0	0
362.6	364.4	Felsic Gneiss (G)	beige	FG			4	0	2
364.4	365.3	Garnet Biotite Felsic Gneiss	green_pink	FMG	BND	Clustering of biotite defines thin bands.	15	7	7
365.3	375.9	Felsic Gneiss (G)	lt grey	FG		1 fleck visible gold at 375.6m.	3	1	2
375.9	403.0	Amphibolite	green_pink	FMG		Footwall. Pegmatite at 377.9-378.1m and 380.6-380.8m. Quartz vein at 384.7-384.8m. EOH	20	3	2