

**ASSESSMENT REPORT ON
DIAMOND DRILLING
BORDEN LAKE PROJECT**

CLAIM # 4227868

**COCHRANE TOWNSHIP
PORCUPINE DISTRICT, ONTARIO**

Submitted to:
PROVINCIAL RECORDING OFFICE
Ministry of Northern Development and Mines and Forestry
933 Ramsey Lake Road
Sudbury, Ontario
P3D 6B5

Prepared by:

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Date: 3 November 2010

INTRODUCTION

Between July 1st and 19th, 2010 Probe Mines Limited completed an eight-hole diamond drilling program on the Borden Lake Project.

A surface gold showing is present on the Borden Lake Project and has 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 of 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. The 2010 drill program was designed to test the extent of the surface showing.

The property is located in the Borden and Cochrane Townships, approximately 9 km east-northeast of the town of Chapleau, Ontario.

This report describes the results of the diamond drilling program on the Borden Lake property. All drill holes were completed on one claim, 4227868, which consists of 15 units and requires an expenditure of \$6,000 to fulfill work requirements to maintain good standing.

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

LOCATION AND ACCESS

The Borden Lake 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 current report details work applicable to Claim 4227868, located in Cochrane Township. Claim information is displayed in Table 1. Probe Mines has entered into an option agreement with M. Tremblay and J. Robert and has the right to 100% according to the terms of the agreement.

Table 1 – Claim Information

Claim#	Ownership	District	Assessment Period		Township	G-Plan	NTS	Units	Assess Required
			From	To					
4227868	M Tremblay (50.00 %) J Robert (50.00 %)	POR	10-Nov-08	11-Nov-10	Cochrane	G-1085	41O14	15	\$ 6,000.00

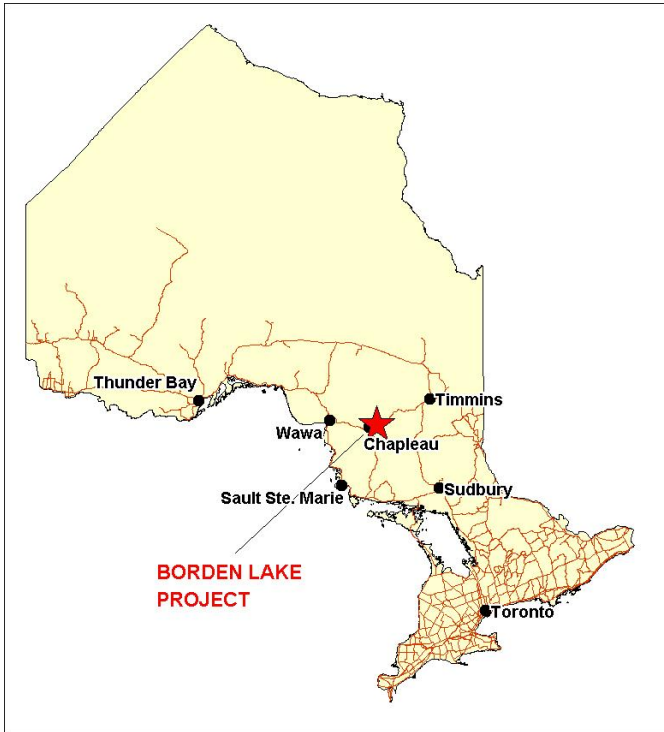
GEOLOGY

The Borden Lake 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 2), 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.

Figure 1- Location of the Borden Lake Project



- Roads
- Claims
- Dispositions
- Claim 4227868 (subject of this report)

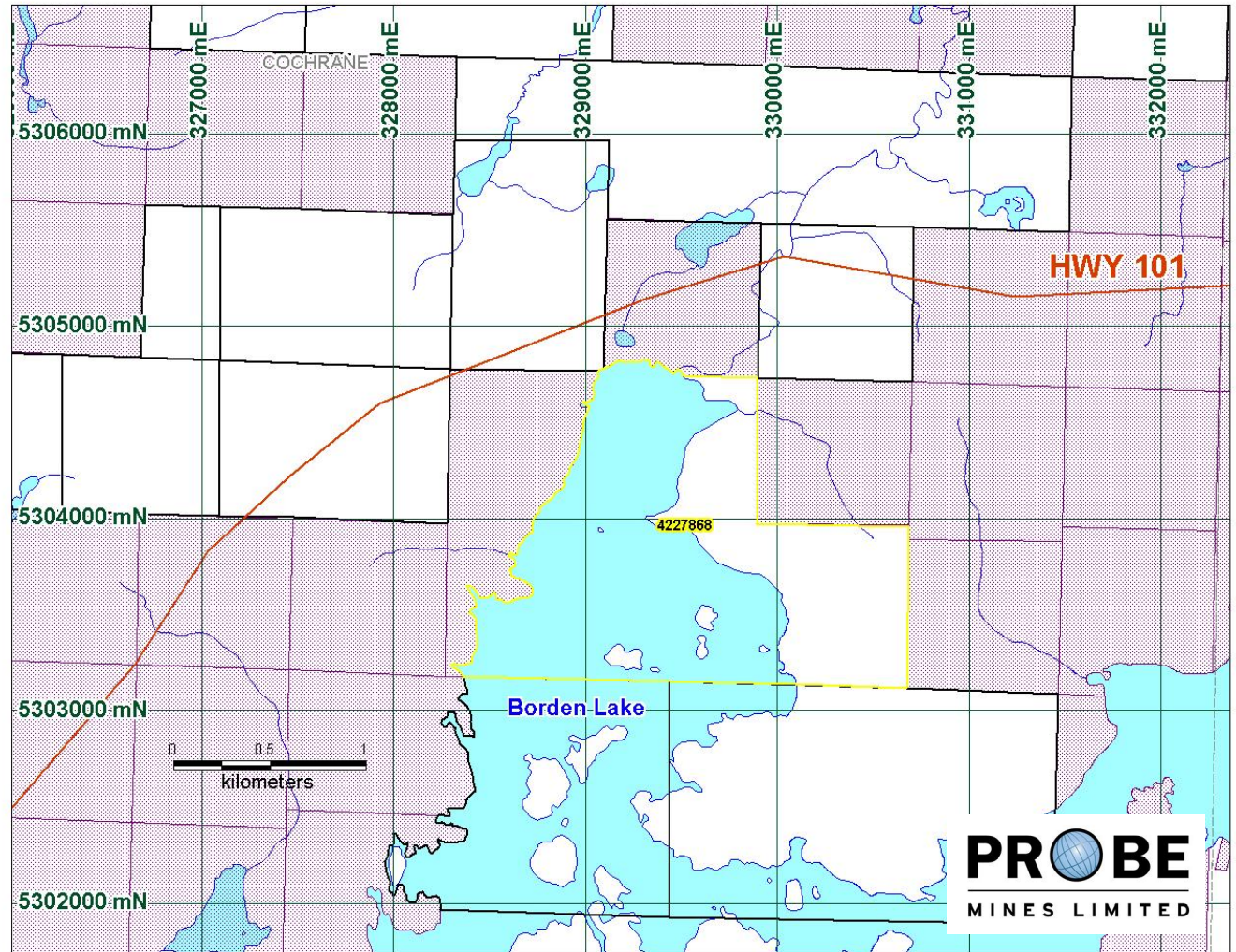
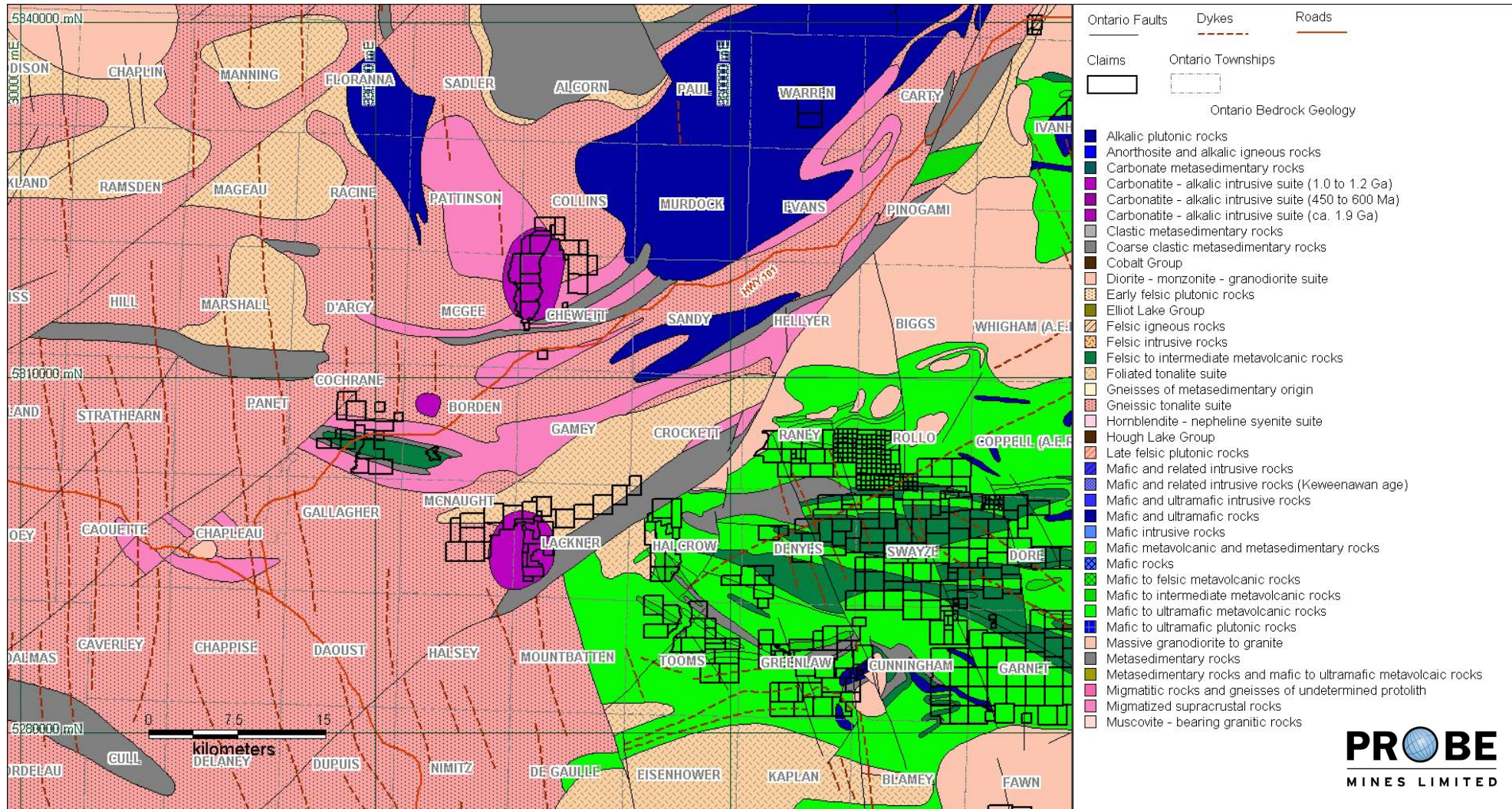


Figure 2 – General Geology of the Borden Lake Area



Several alkali rocks such as carbonatite complexes along with lamprophyric 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.

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.

DIAMOND DRILLING

Between July 1st and 19th 2010, a diamond drill program comprising eight holes, totaling 790m, was completed on the property, all within one claim, 4227868 (Figure 3; Table 3). The holes were drilled to test the surface gold showing on the property. Drill hole traces and depths are illustrated in Figure 4. Norex drilling of Timmins, Ontario was contracted to complete the drilling. The drill program was completed and overseen by Dr. David Palmer of Probe Mines.

Drill hole cross sections are presented in Figures 5 to 12. Appendix I contains the drill logs.

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

Hole ID	Easting	Northing	Azimuth	Dip	Depth
BL10-01	330275	5303741	200	-60	38
BL10-02	330244	5303682	20	-60	128
BL10-03	330244	5303683	20	-45	92
BL10-04	330244	5303682	200	-45	95
BL10-05	330293	5303650	200	-60	97
BL10-06	330317	5303698	200	-60	134
BL10-07	330449	5303535	200	-45	101
BL10-08	330135	5303520	200	-45	104

Total: 789

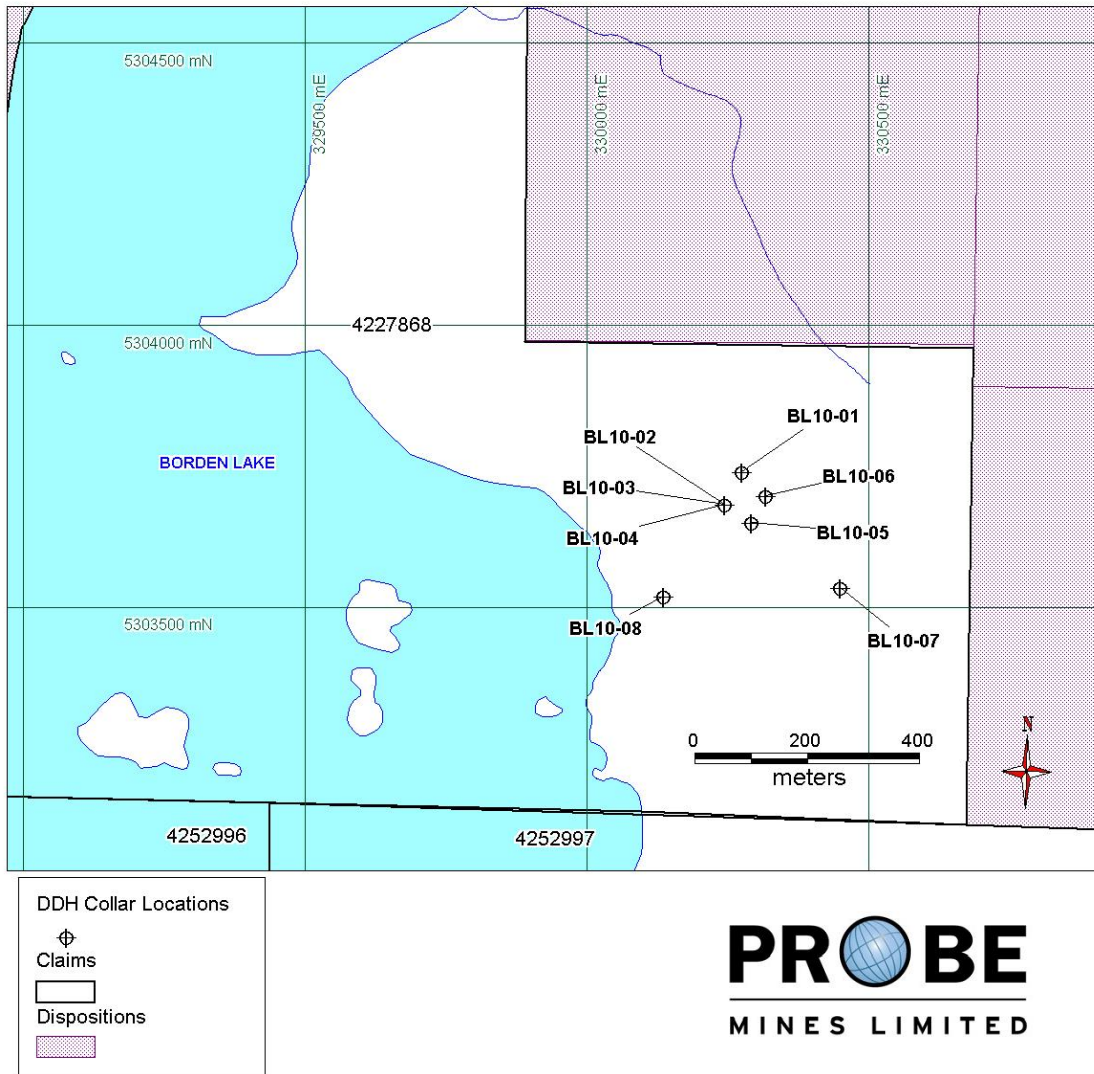


Figure 3 - Diamond Drill Hole Locations

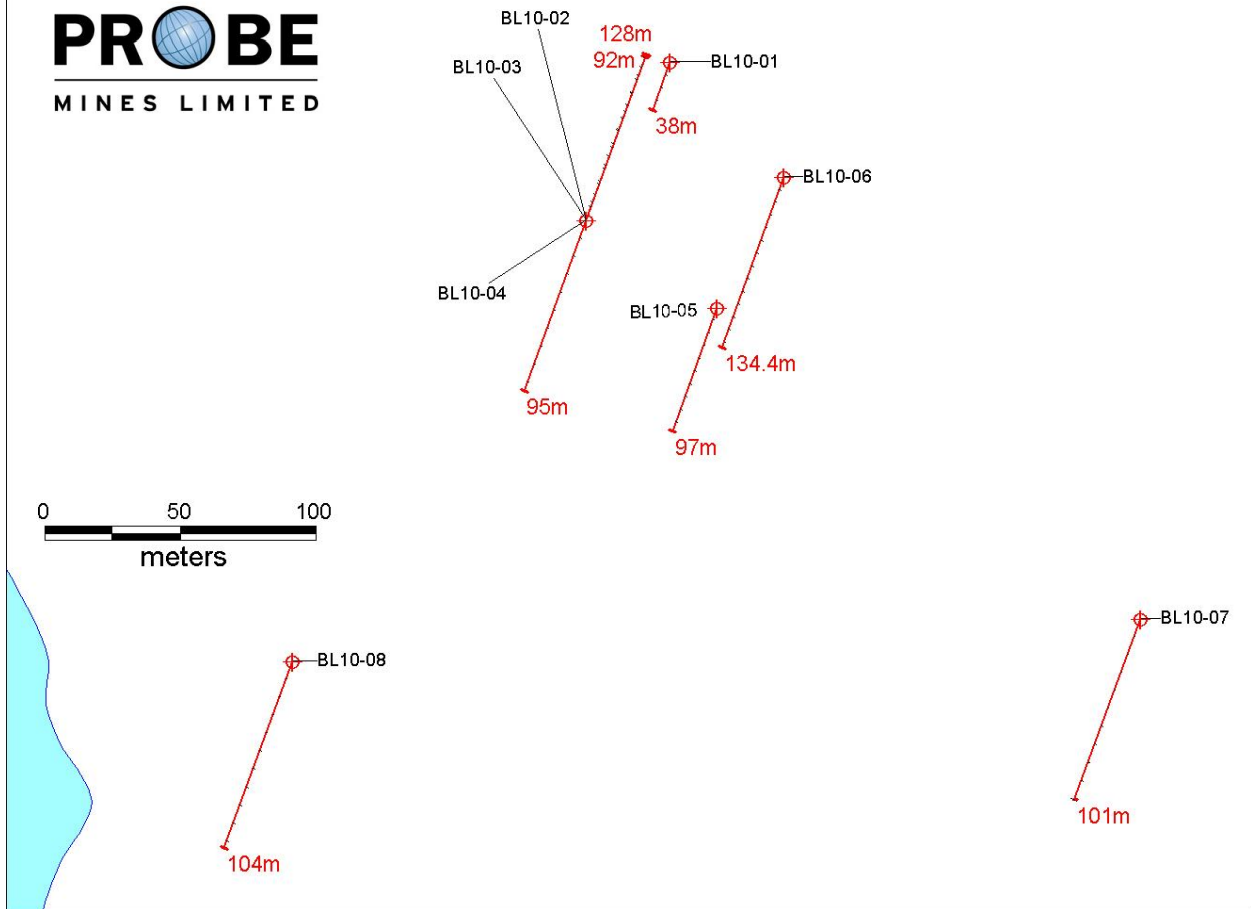


Figure 4 - Diamond Drill Hole Traces and Depths

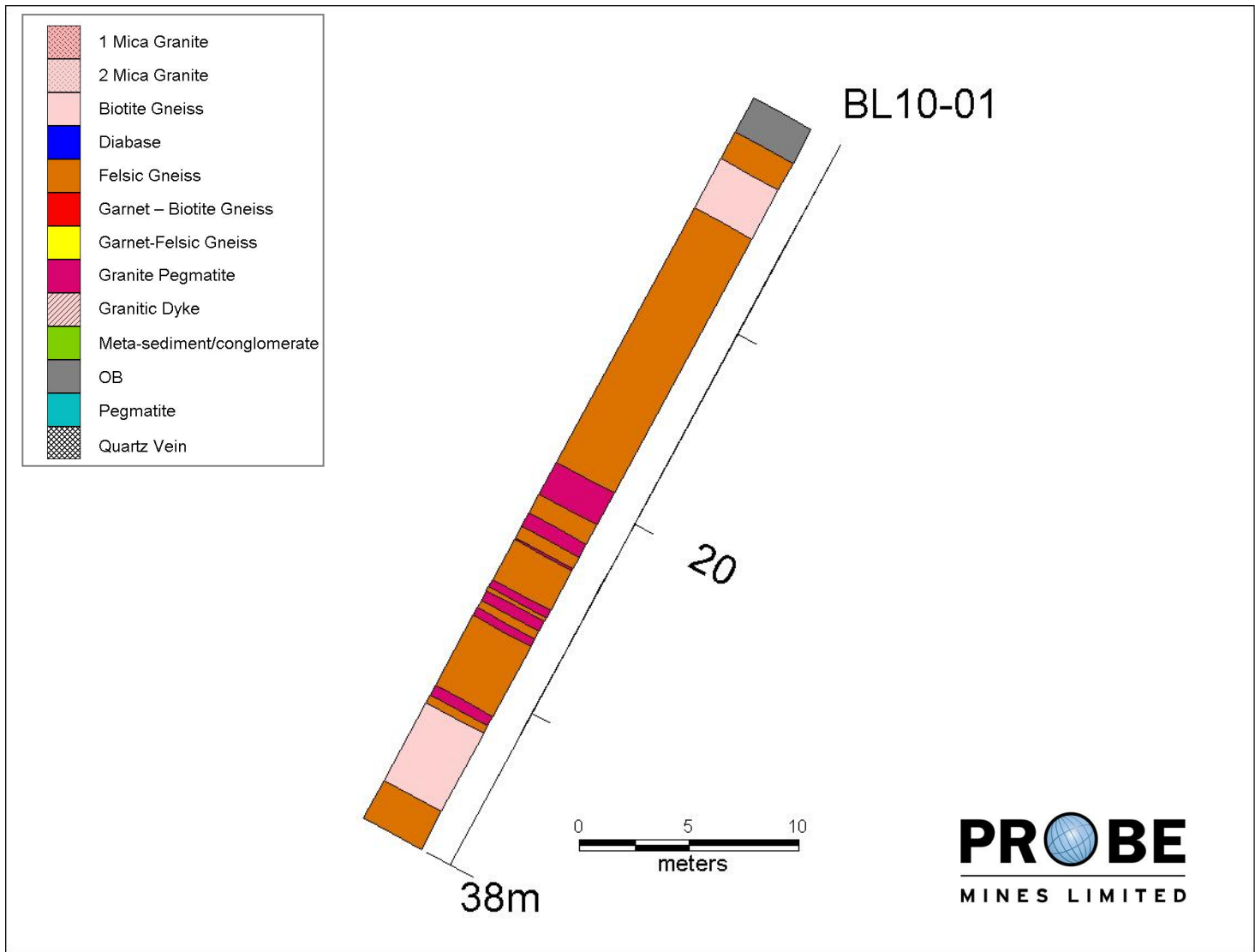


Figure 5 – Diamond Drill Hole Sections BL10-01

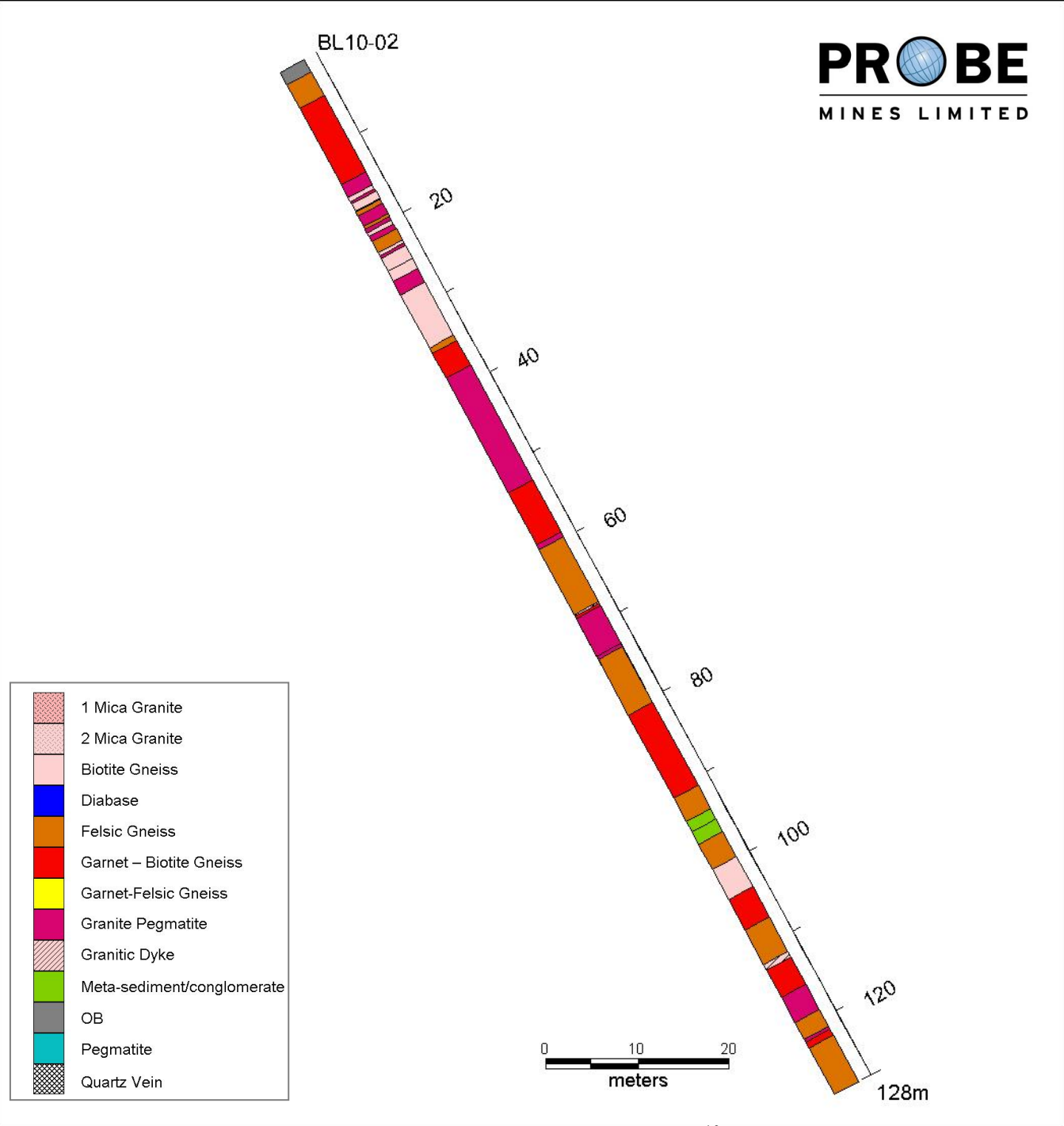


Figure 6 – Diamond Drill Hole Sections BL10-02

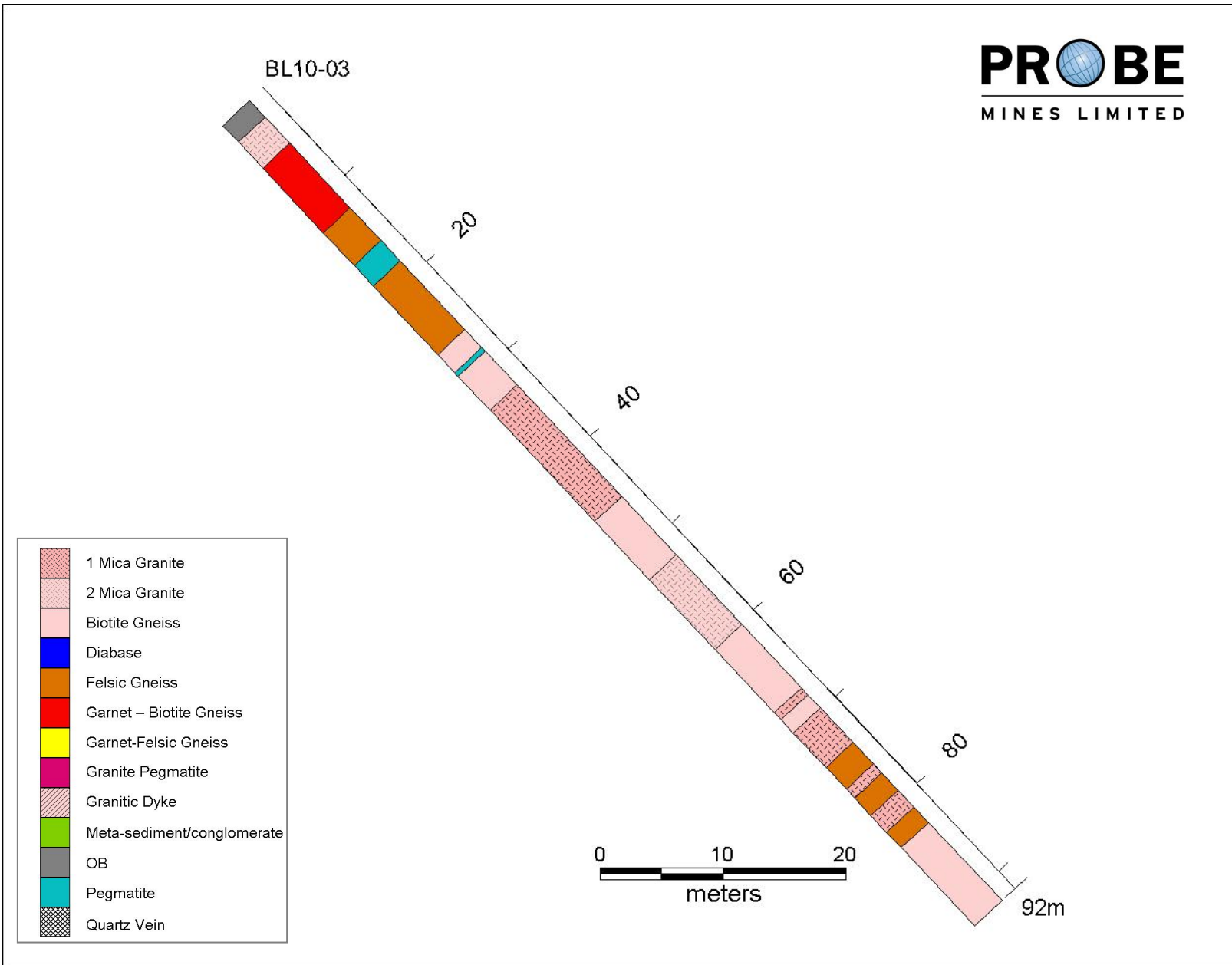


Figure 7 – Diamond Drill Hole Sections BL10-03

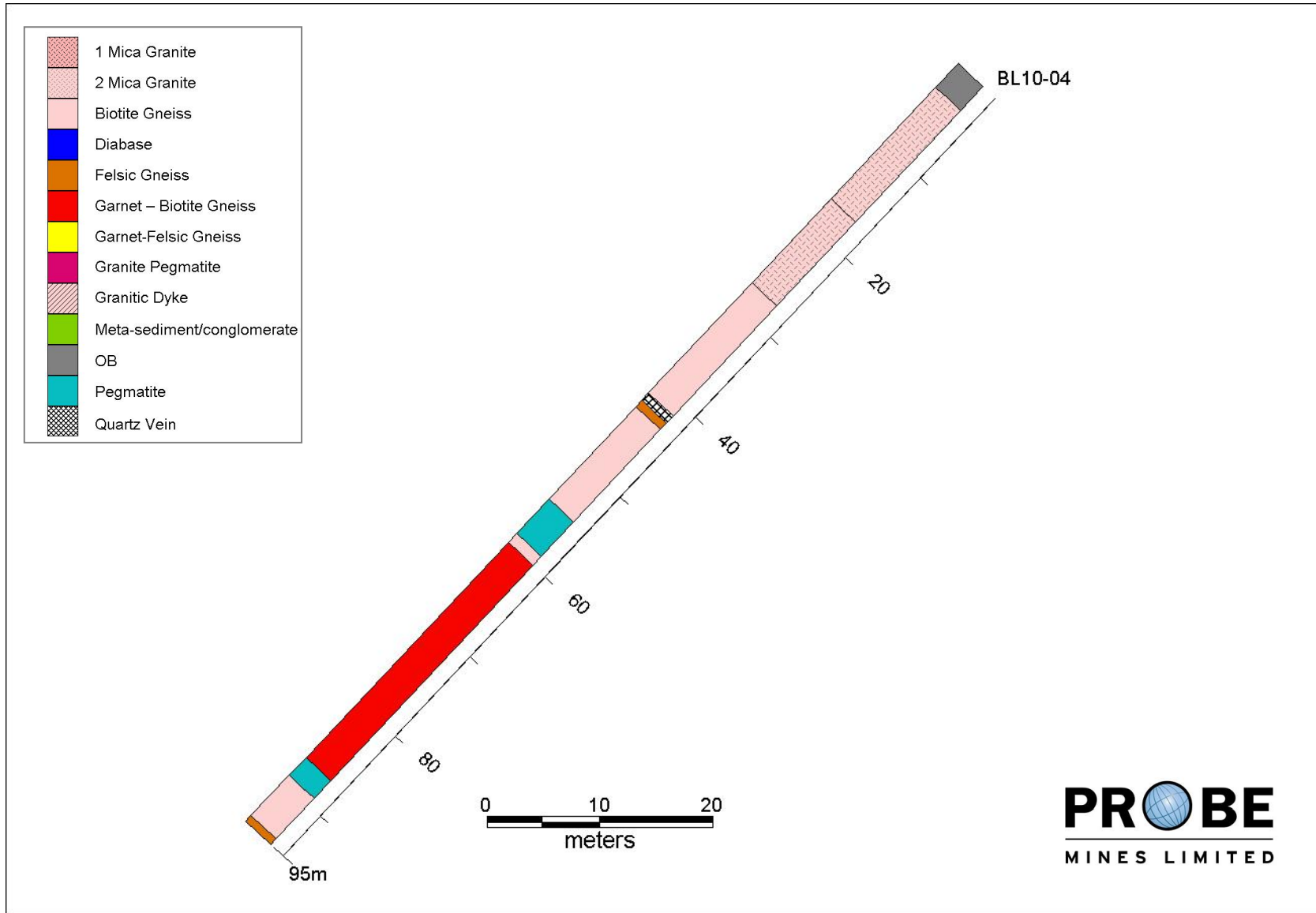


Figure 8 – Diamond Drill Hole Sections BL10-04

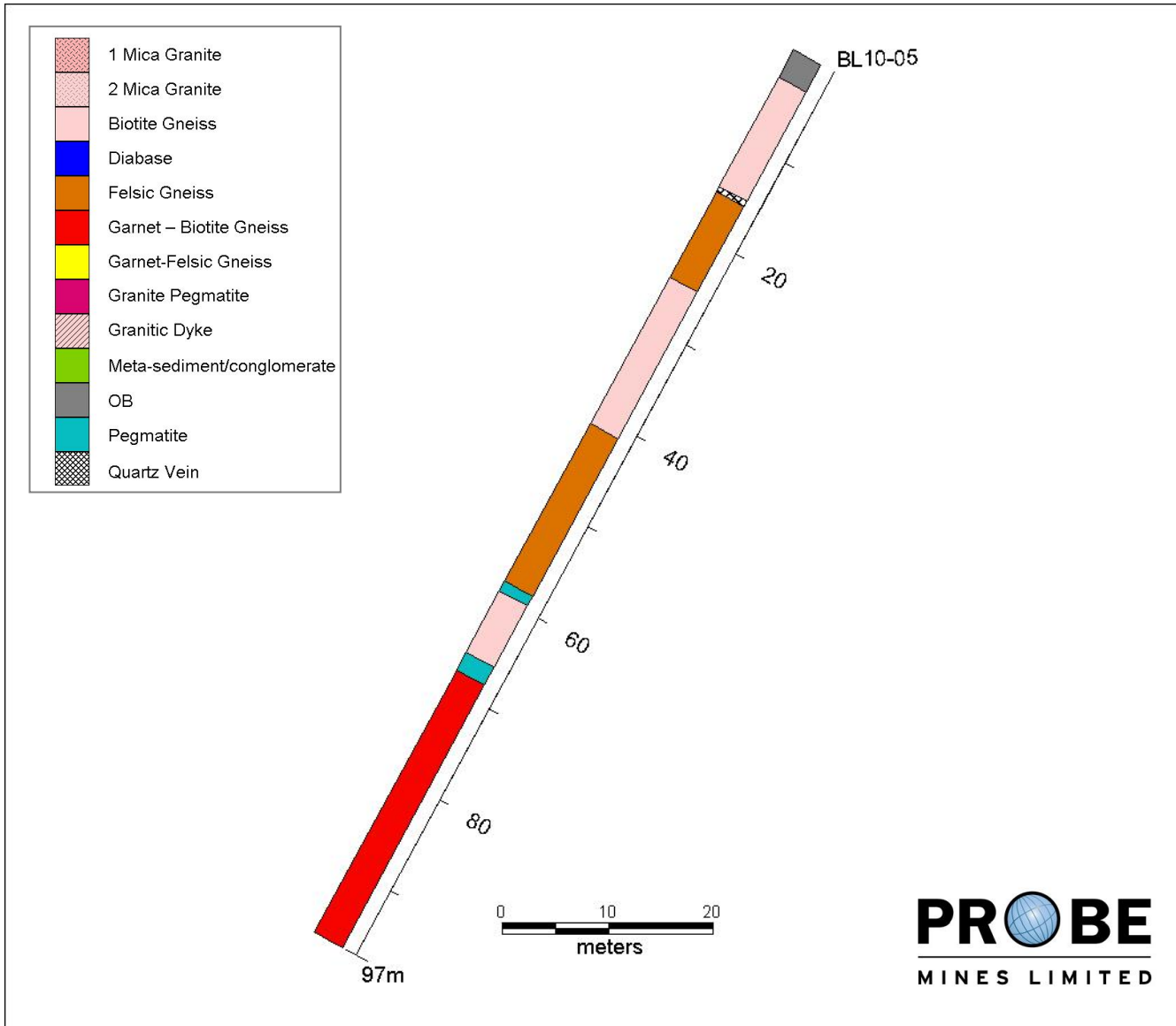


Figure 9 – Diamond Drill Hole Sections BL10-05

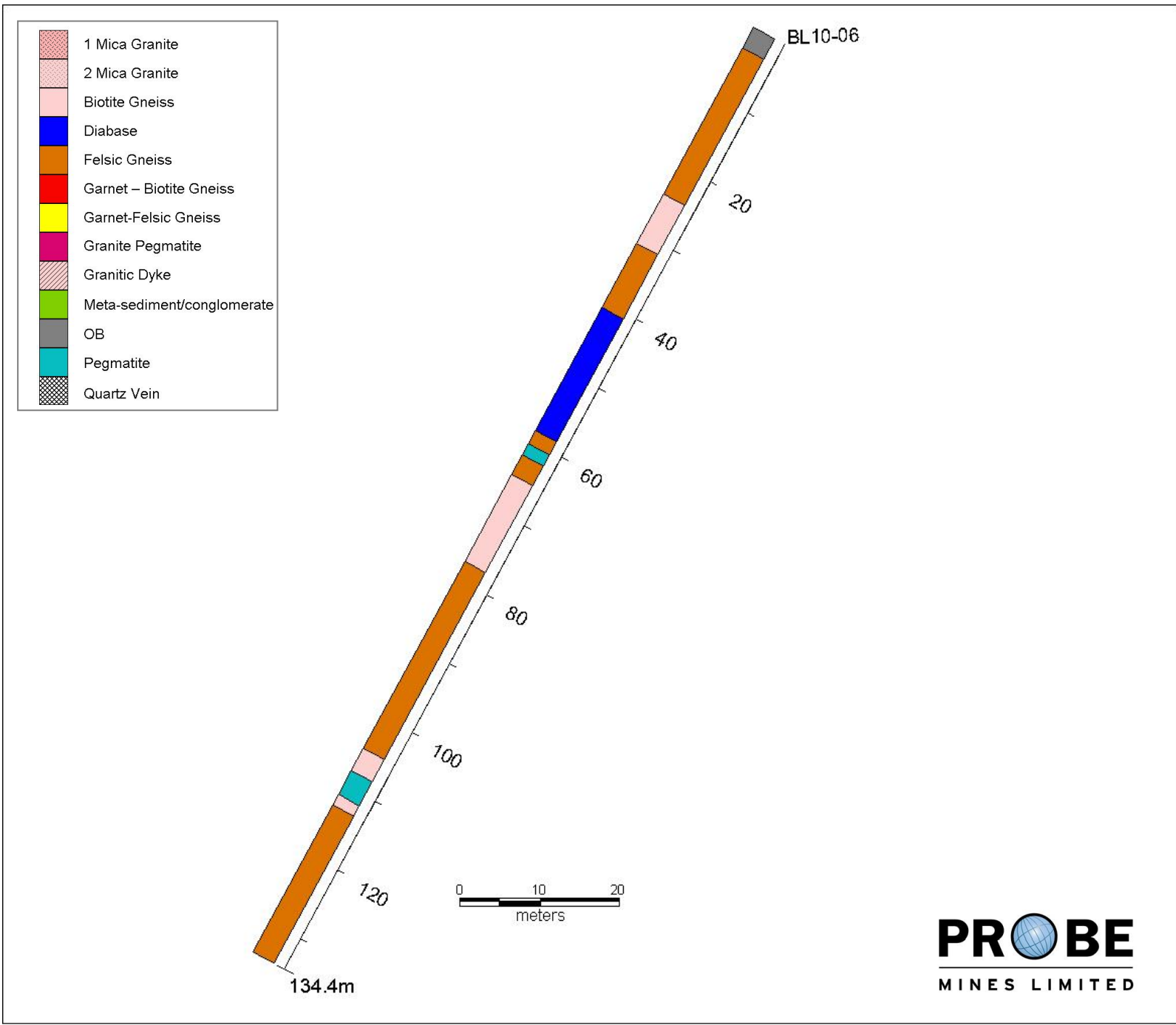


Figure 10 – Diamond Drill Hole Sections BL10-06



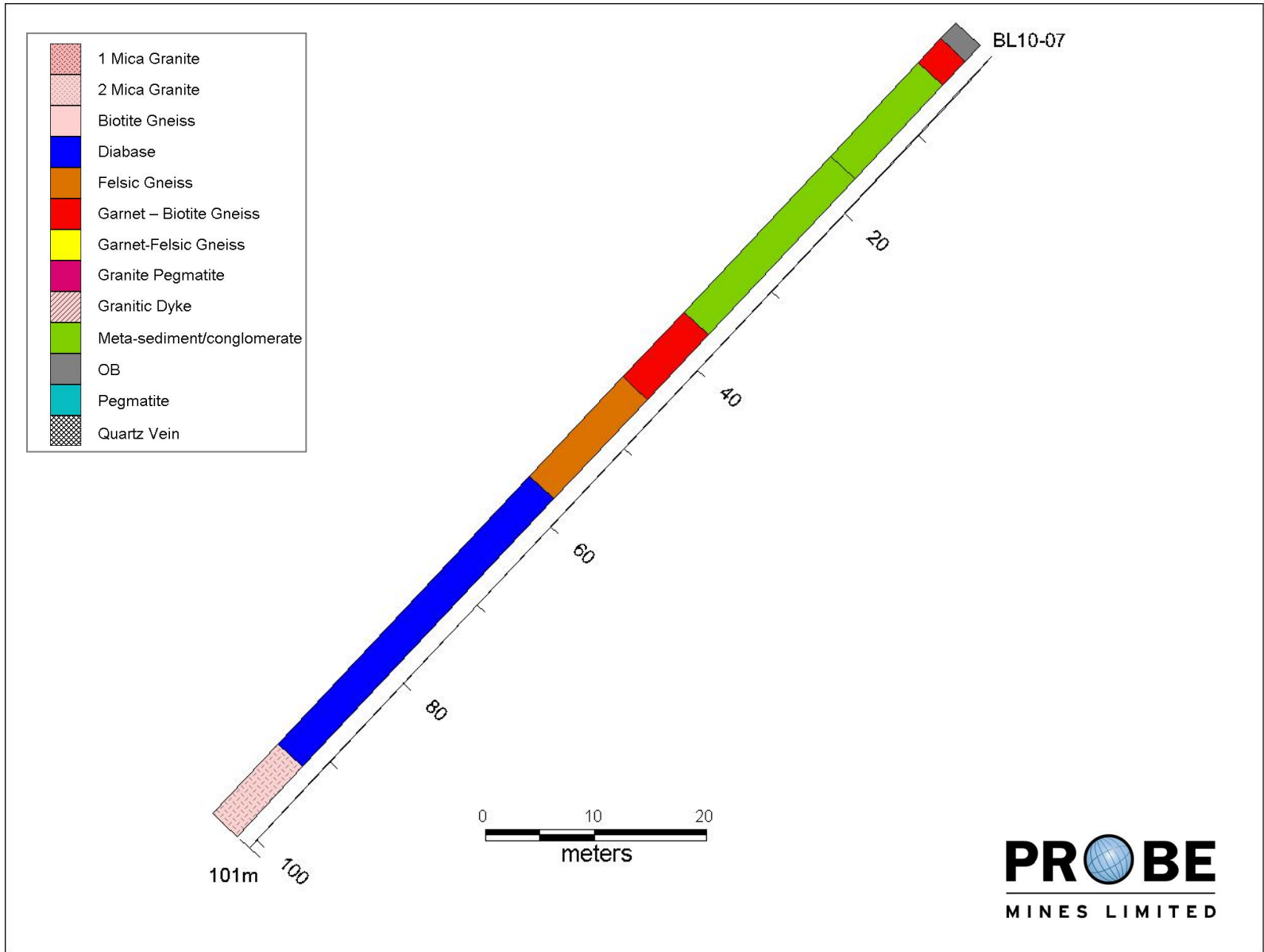


Figure 11 – Diamond Drill Hole Sections BL10-07

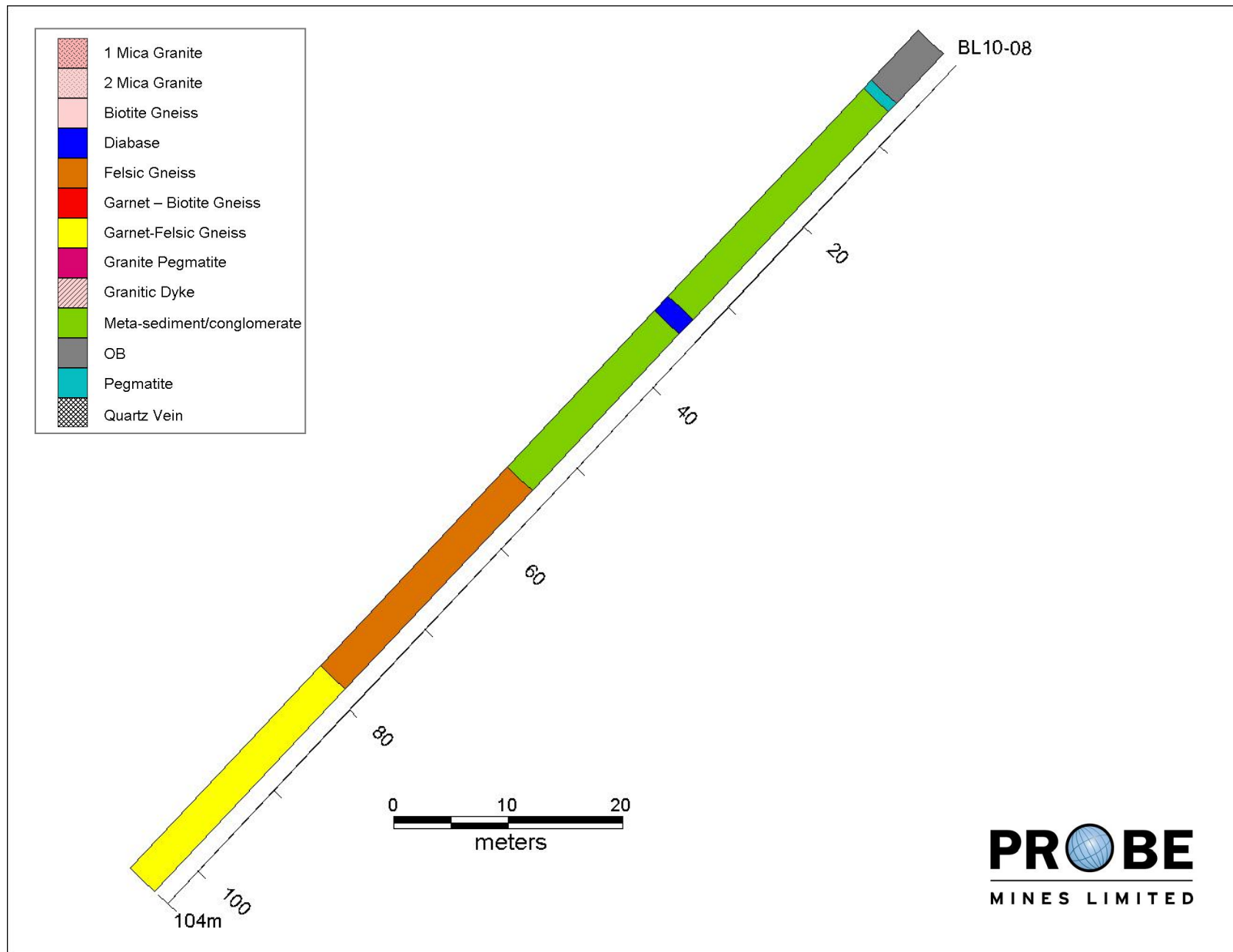


Figure 12 – Diamond Drill Hole Sections BL10-08

RECOMMENDATIONS

Drilling results from the 2010 program indicate that there is excellent potential to host a low-grade, bulk tonnage gold deposit. Further drilling to extend the potential zones of mineralization is recommended.

REFERENCES

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Percival, J. 2008. Field Guide to the Kapuskasing Uplift, Chapleau-Foleytransect: A window on the deep crust, in Geological Society of America Field Forum “Late Archean Crust: Magmatism and Tectonics of the Abitibi Subprovince, Canadian Shield” p. 46-76.

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APPENDIX I
Diamond Drill Hole Logs



Drilling Company Compagnie de forage NOREX	Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 200	Total Footage Avancement total du forage 38	Dip of Hole at Inclinaison du forage au Collar/collier 60°	Address/Location where core stored Chapleau	Map	Claim No.							
Date Hole Started Date de commencement du forage July 6, 2010	Date Completed Date d'achèvement July 7, 2010	Date Logged Date d'inscription au journal July 8, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer	<table border="1"> <tr><td>Ft./Pi</td><td>°</td></tr> <tr><td>Ft./Pi</td><td>°</td></tr> <tr><td>Ft./Pi</td><td>°</td></tr> <tr><td>Ft./Pi</td><td>°</td></tr> </table>		Ft./Pi	°	Ft./Pi	°	Ft./Pi	°	Ft./Pi	°	Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township	Property Name Borden Lake Project
Ft./Pi	°														
Ft./Pi	°														
Ft./Pi	°														
Ft./Pi	°														
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED			Logged by (Signature) Inscrit par (signature)	<table border="1"> <tr><td>Ft./Pi</td><td>°</td></tr> <tr><td>Ft./Pi</td><td>°</td></tr> <tr><td>Ft./Pi</td><td>°</td></tr> </table>		Ft./Pi	°	Ft./Pi	°	Ft./Pi	°				
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Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage		Sample Length
From/De (m)	To/A (m)						From/De	To/A	
0	1.8	OB	Casing	S ¹ 80 ⁸					
1.8	3.2	Felsic Gneiss	Medium- to coarse-grained grey granitic gneiss (Paragneiss) comprised of poorly layered groundmass of quartz-feldspar and variable biotite from 10-30%; minor coarse-grained to pegmatitic knots of quartz, typically less than 10 cm wide, locally 1-2% fine disseminated pyrite in more biotite rich sections, minor books of muscovite locally in groundmass, typically seen in coarser grained sections and associated with quartz knots (pegmatite?); unit is not magnetic; gneissic layering best shown by biotite orientation but can be highly variable, 30-80°	S ¹ 30 ¹⁴ S ¹ 40 ¹⁷ S ¹ 45 ²⁶ S ¹ 80 ³²					
3.2	5.8	Biotite Gneiss	Biotite bearing grey granitic gneiss, similar to "Felsic Gneiss but increased biotite content; 20-30% Biotite, 2-3% Pyrite;						
5.8	19.2	Felsic Gneiss	Same as previous						
19.2	20.9	Granite Pegmatite	Granite pegmatite comprised of 20-40% quartz, 30-40% Kspar (pale orange) and 30-40% plagioclase (pale green, striae) with 5-10% accessory biotite; crystals range from subhedral to almost euhedral, all minerals are pale translucent, typically contains 2-3% pyrite and pyrrhotite (locally up to 5-10%) as schlieren and coarse clots (up to 4 cm) within ground mass; sharp replacement textures between pyrite and pyrrhotite units are magnetic when pyrrhotite is present						
20.9	21.9	Felsic Gneiss	Same as previous; 1-2% pyrite and pyrrhotite schlieren and disseminated						
21.9	22.6	Granite Pegmatite	Same as previous; <5% Muscovite books, 1% disseminated pyrite						
22.6	23.2	Felsic Gneiss	Same as previous						
23.2	23.3	Granite Pegmatite	Same as previous						
23.3	25.4	Felsic Gneiss	Same as previous						

Drilling Company Compagnie de forage NOREX		Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 020	Total Footage Avancement total du forage 128	Dip of Hole at Inclinaison du forage au Collar/collier 60°		Address/Location where core stored Chapleau		Map	Claim No.	
Date Hole Started Date de commencement du forage July 7, 2010		Date Completed Date d'achèvement July 8, 2010	Date Logged Date d'inscription au journal July 9, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer		Ft./Pi °				Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township		
				Logged by (Signature) Inscrit par (signature)		Ft./Pi °						
						Ft./Pi °						
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED						Ft./Pi °				Property Name Borden Lake Project		
Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)					Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage	
From/De (m)	To/A (m)										From/De	To/A
0	1.6	OB										
1.6	4.5	Felsic Gneiss	Very coarse-grained granitic gneiss with 10-15% coarse grained biotite; 3-5% disseminated-blebby- schlieren pyrite ± pyrrhotite; unit has thin (<10cm) pegmatite dykes making up 5% of interval, also pyrite mineralized									
4.5	14.1	Garnet –Biotite Gneiss	Brown grey striped gneiss comprised of thin interlayered coarse-grained biotite and quartz-feldspar-biotite unit contains 5%, locally 5-10%, pyrite + pyrrhotite as disseminated, blebs and schlieren typically along biotite margins and cleavage; 3-5% garnet occurs as coarse-grained (2-8mm) porphyroblasts with greatest concentrations in biotite rich layers, interval contains ≤5% pegmatite dyklets (up to 10 cm) containing 3-5% pyrite; gneissic layering on mm-cm scale; unit is magnetic (pyrrhotite), biotite makes up to 50% of rock.									
14.1	15.7	Granite Pegmatite	Green orange white translucent with 5-10% large biotite books (up to 30 cm), 1% pyrite blebs									
15.7	16.2	Biotite Gneiss	Same as previous except garnet absent									
16.2	16.5	Granite Pegmatite	Same as previous, Pyrite blebs									
16.5	17.4	Biotite Gneiss	Same as previous but 5% pyrite along biotite foliation, locally 10% near contact with lower pegmatite dyklet									
17.4	17.5	Granite Pegmatite	Same as previous green orange white dyklet									
17.5	18	Felsic Gneiss	5% disseminated biotite in medium to coarse grained matrix; 1-2% pyrite + pyrrhotite as disseminated and blebs									
18	19.3	Granite Pegmatite	Green orange white with 5-10% biotite clots (maybe granitic gneiss fragments), 1% pyrite + pyrrhotite found mostly near pegmatite contacts as coarse grained blebs, and 3-5% pyrrhotite ± pyrite in biotite clots									
19.3	19.7	Felsic Gneiss	10% biotite, 2-3% fine disseminated pyrite + pyrrhotite along biotite margins, 5% locally in more biotite rich layers									
19.7	20.1	Granite Pegmatite	Green orange white, 1% disseminated pyrite									

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Hole No. BL10-02	Page No. 2 of 3
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Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Planar Feature Type	Planar Feature Angle	Sample No.	Sample Footage			Py	Cpy	Oth
From/De (m)	To/À (m)	Type de roche					from	to				
20.1	20.6	Biotite Gneiss	40% biotite with 2-3% pyrrhotite + pyrite									
20.6	21.2	Granite Pegmatite										
21.2	22.6	Felsic Gneiss	5-10% biotite in quartz-feldspar gneiss, 2-3% disseminated and blebby pyrite +pyrrhotite									
22.6	23	Biotite Gneiss	3-5% pyrrhotite + pyrite along biotite margins									
23	23.3	Granite Pegmatite	Green orange white, 1-2% disseminated pyrite + pyrrhotite									
23.3	24.9	Biotite Gneiss	30% medium-grained disseminated biotite in medium grained quartz feldspar gneiss, 3-5% pyrrhotite + pyrite blebs stretched parallel to layering									
24.9	26.2	Biotite Gneiss	30% coarse-grained disseminated biotite in coarse grained quartz feldspar gneiss; feldspar up to 1/2cm giving spotted appearance; 1% disseminated pyrite + pyrrhotite									
26.2	27.9	Granite Pegmatite	Green orange white with altered (milky green) plagioclase, <5% large (1-2cm) biotite books									
27.9	34.5	Biotite Gneiss	Same as 24.9-26.2; sharp contact with pegmatite dyke									
34.5	35.2	Felsic Gneiss	Felsic gneiss 5-10% medium grained biotite									
35.2	38.3	Garnet –Biotite Gneiss	Biotite rich (50-60%) gneiss/schist with 40-50% quartz feldspar and 5% garnet, unit becomes very coarse grained (up to 1cm) downhole with garnet concentrations increasing; 3-5% coarse grained blebby pyrite + pyrrhotite									
38.3	52.7	Granite Pegmatite	Green orange white pegmatite with 2-5% coarse (up to 3 cm) clots of pyrite +pyrrhotite; 5-10% large (up to 3cm) books of biotite; feldspar crystals up to 10cm long; interval contains 10% biotite rich gneiss layers up to 40cm wide with typically 5-10% pyrite + pyrrhotite along biotite layering									
52.7	59.2	Garnet –Biotite Gneiss	Medium to coarse-grained black biotite garnet schist with <5% garnet and 5-10% schlieren disseminated and stretched blebs of pyrite + pyrrhotite parallel to layering-foliation; minor (<5%) granitic pegmatite dyklets									
59.2	59.8	Granite Pegmatite	Orange white with 20% very coarse (2-3cm) biotite clots surrounding quartz-feldspar crystals; biotite contains coarse (up to 1 cm) pyrite-pyrrhotite grains									
59.8	67.9	Felsic Gneiss	5-10% disseminated biotite in medium grained grey quartz feldspar gneiss, 5% pyrite-pyrrhotite schlieren, blebs and disseminated parallel to layering-S ₁									
67.9	68.1	Granitic Dyke	Alkali feldspar rich coarse-grained granitic dyke									
68.1	68.4	Garnet –Biotite Gneiss	40-50% biotite and 3-5% garnet with 5% pyrite-pyrrhotite									
68.4	78.7	Granite Pegmatite	Green orange white									
68.7	73.1	Garnet –Biotite Gneiss	Same as previous, 5% pyrite-pyrrhotite									
73.1	73.5	Granite Pegmatite	Orange white, 5% pyrite-pyrrhotite as large (up to 4 cm) clots in quartz									

*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Planar Feature Type	Planar Feature Angle	Sample No.	Sample Footage		Py	Cpy	Oth
From/De (m)	To/À (m)	Type de roche					from	to			
73.5	80.5	Felsic Gneiss	10-15% biotite, 5-10% schlieren, blebs and disseminated pyrite-pyrrhotite parallel to layering-S ₁								
80.5	90.9	Garnet –Biotite Gneiss	5-10% garnet (up to 1 cm), 5-10% schlieren, blebs and disseminated pyrite-pyrrhotite parallel to S ₁								
90.9	93.8	Felsic Gneiss	10-15% biotite; minor garnet (<2%), 5% schlieren, blebs and disseminated pyrite+pyrrhotite parallel to S ₁								
93.8	95.1	Meta-Conglomerate	Pink green conglomerate comprised of large (up to 5 cm) rounded and stretched pink, fine grained siliceous clasts/fragments in matrix (supported) of medium grained chlorite and biotite, 5-10%disseminated/blebby pyrite+pyrrhotite in matrix								
95.1	96.7	Meta-Conglomerate	10-15% biotite in siliceous groundmass with possible pale clasts/fragments, may belong to interval 93.8-95.1; 5-10% pyrite+pyrrhotite as schlieren, disseminated and blebs parallel to S ₁								
96.7	99.8	Felsic Gneiss	Grey –light grey, coarse-grained siliceous gneiss with 5-10% biotite disseminated in groundmass, maybe related to 93.8-96.7; 5% pyrite±pyrrhotite as schlieren, disseminated and blebs parallel to S ₁ and around grain boundaries								
99.8	103.6	Biotite Gneiss (Structural Zone)	Mixed, contorted zone of 1) siliceous fragments in chlorite-biotite matrix, 2) medium-grained bioite-rich fragments, possibly a healed structural zone, sharp contacts of fragments showing rotated S ₁ 's; 5-10% pyrite-pyrrhotite as schlieren, disseminated and blebs parallel to S ₁ , in matrix and within fragments								
103.6	107.4	Garnet –Biotite Gneiss	15-20% biotite in siliceous gneiss with 5% disseminated garnet; 5-10% pyrite-pyrrhotite as schlieren, disseminated and blebs parallel to S ₁								
107.4	111.7	Felsic Gneiss	10-15% biotite, <2% garnet, 5-10%pyrite+pyrrhotite as schlieren, disseminated and blebs parallel to S ₁								
111.7	112.4	Granitic Dyke	Coarse-grained pale white/pink granitic dyke 1-2% disseminated pyrite								
112.4	115.8	Garnet –Biotite Gneiss	30-40% biotite in felsic matrix (Quartz-feldspar), <2% garnet, 5% pyrite+pyrrhotite as schlieren, disseminated and blebs parallel to S ₁								
115.8	119	Granite Pegmatite	Grey green coarse-grained siliceous granite with pegmatitic zones and alkali feldspar rich zones, 3-5% disseminated/blebby pyrite±pyrrhotite, locally 5% in alkali feldspar rich zones.								
119	121.1	Felsic Gneiss	10% biotite in siliceous matrix, <2% garnet, 3-5% pyrite-pyrrhotite as schlieren/disseminated parallel to S ₁ , 5% thin (<1cm) quartz-carbonate veinlets displaying pale yellow (sericitic) alterations haloes, crosscut S ₁								
121.1	121.4	Granite Pegmatite	Thin quartz rich granite pegmatite with 5-10%clots of pyrite-pyrrhotite								
121.4	122.2	Garnet –Biotite Gneiss	40-50% Biotite, 3-5% garnet, 5-10% schlieren, blebs and disseminated pyrite±pyrrhotite parallel to S ₁								
122.2	128	Felsic Gneiss	5-10% Biotite, locally 20%, 3-5% schlieren, blebs and disseminated pyrite-pyrrhotite parallel to S ₁ , minor quartz clots with 5-10% blebby pyrite-pyrrhotite								
	128	EOH	End of hole								

*For features such as foliation, bedding, schistosity, measured from the long axis of the core.



Drilling Company Compagnie de forage NOREX		Core Size Dimensions de la carotte NQ	Collar Elevation Elévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 020	Total Footage Avancement total du forage 92	Dip of Hole at Inclinaison du forage au Collar/collier 45°	Address/Location where core stored Chapleau		Map	Claim No.	
Date Hole Started Date de commencement du forage July 8 2010		Date Completed Date d'achèvement July 9, 2010	Date Logged Date d'inscription au journal July 12, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer		Ft./Pi °		Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township Property Name Borden Lake Project			
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED		Logged by (Signature) Inscrit par (signature)		Ft./Pi °							
				Ft./Pi °							
				Ft./Pi °							
Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)				Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage	
From/De (m)	To/A (m)									From/De	To/A
0	1.9	OB									
1.9	4.9	2 Mica Granite	Very coarse-grained grey granite comprised of quartz-feldspar-muscovite-biotite, ~1% disseminated pyrite								
4.9	12.3	Garnet-Biotite Gneiss	Dark grey-black biotite garnet schist with 10-20% biotite; 3-5% garnet and 3-5% pyrite±pyrrhotite; interval contains 10% green orange white pegmatite as 10-20cm dyklets throughout with 3% blebby pyrite±pyrrhotite; biotite is variable and less biotized sections resemble coarse-grained granite above								
12.3	16.1	Felsic Gneiss	5-10% biotite; 4% garnet, 2-3% pyrite±pyrrhotite as blebs/disseminated parallel to S ₁ , biotite increases towards footwall contact								
16.1	18.4	Pegmatite	Green orange white pegmatite, large biotite books, 1-2% pyrite as large blebs								
18.4	26.3	Felsic Gneiss	10-20% biotite, <2% garnet, 3-5% pyrite-pyrrhotite as schlieren/blebs/disseminated parallel to S ₁ , minor sericitic alteration of spidery quartz veins between 23.7 and 24m.								
26.3	28.4	Biotite Gneiss	40-50% biotite, <1% garnet, 3% fine grained disseminated/blebby pyrite±pyrrhotite parallel to S ₁								
28.4	28.8	Pegmatite	Green orange white with 5% clots of pyrite-pyrrhotite associated with biotite patches								
28.8	32.7	Biotite Gneiss	Fine to medium-grained, 30% biotite, appears to have stretched felsic fragments (May correlate to conglomerate?) <1% garnet, 5-10% pyrite-pyrrhotite as schlieren/blebs/disseminated typically parallel to S ₁								
32.7	45.5	1 Mica Granite	Coarse-grained massive equigranular black (biotite) and white (feldspar crystal) spotted 1 mica granite with 1-2% pyrite as disseminated within groundmass, 10-15% biotite in groundmass								
45.5	52.2	Biotite Gneiss	Fine to medium-grained, black and green biotite (30%) and chlorite(15%) schist showing zonation of biotite and chlorite as layers parallel to S ₁ , groundmass is siliceous (quartz and feldspar), 5-10% fine disseminated and thin schlieren of pyrite-pyrrhotite parallel to layering-S ₁ , <1% garnet, footwall contact is coarse biotite flowers in quartz over 30 cm width								

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Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Planar Feature Type	Planar Feature Angle	Sample No.	Sample Footage			Py	Cpy	Oth
From/De (m)	To/À (m)	Type de roche					from	to				
52.2	60.2	2 Mica Granite	See 1.9 -4.9m, very coarse-grained muscovite-biotite granite, ~1% medium-grained disseminated pyrite									
60.2	67.5	Biotite Gneiss	Layered chlorite-rich (20%) – biotite-rich (30%) rock with pale purple pink siliceous layers (parts of coarse fragments) consisting of fine-grained siliceous rock (50%), 5-10% pyrite-pyrrhotite as schlieren/disseminated/blebs parallel to layering and typically in chlorite/biotite layers, (possibly analogous to meta-conglomerate)									
67.5	68.3	1 Mica Granite	Medium-grained granite with sharp footwall-hanging wall contacts with biotite-chlorite schist									
68.3	69.8	Biotite Gneiss	Predominantly biotite schist with minor chlorite, 10% schlieren/blebby pyrrhotite±pyrite parallel to layering									
69.8	73.8	1 Mica Granite	1 mica equigranular biotite granite with thick chilled (fine to medium-grained) margins (coarse-grained from 70.3 to 71.4), ~1& pyrite									
73.8	76.3	Felsic Gneiss	5-10% biotite, <1% garnet, ~5% pyrite-pyrrhotite as schlieren/disseminated/blebs parallel to S ₁									
76.3	77.3	1 Mica Granite	Same as previous									
77.3	79.3	Felsic Gneiss	Same as previous									
79.3	81.2	1 Mica Granite	Same as previous									
81.2	83	Felsic Gneiss	Same as previous									
83	92	Biotite Gneiss	Going down dip between granitic gneiss (II) and biotite schist, 3-5% pyrite-pyrrhotite as schlieren/disseminate/blebs, <1% garnet, medium to coarse-grained.									
	92	EOH	End of Hole									

*For features such as foliation, bedding, schistosity, measured from the long axis of the core.



Drilling Company Compagnie de forage NOREX		Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 200	Total Footage Avancement total du forage 92	Dip of Hole at Inclinaison du forage au Collar/collier 45°	Address/Location where core stored Chapleau		Map	Claim No.		
Date Hole Started Date de commencement du forage July 9, 2010		Date Completed Date d'achèvement July 10, 2010	Date Logged Date d'inscription au journal July 13, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer		Ft./Pi °		Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township		Property Name Borden Lake Project		
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED		Logged by (Signature) Inscrit par (signature)		Ft./Pi °								
				Ft./Pi °								
Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)				Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage		Sample Length
From/De (m)	To/A (m)									From/De	To/A	
0	3	OB										
3	17	2 Mica Granite	Grey black mottled, very coarse-grained 2 mica granite, highly biotized (altered), muscovite commonly occurs as snowflake crystals in matrix, 30% biotite, 10% muscovite, minor thin quartz veins with sericitic alteration haloes, local alkali feldspathization, 3-5% pyrite-pyrrhotite as blebs and disseminations									
17	27.5	2 Mica Granite	Pink-grey medium grained massive to moderately well layered granite containing 5% medium grained disseminated biotite and <5% muscovite in siliceous quartz-alkali feldspar matrix, minor pegmatite veins (<10cm), 3-5% (locally 5-10%) pyrite±pyrrhotite as schlieren/disseminated/blebs parallel to layering									
27.5	41.3	Biotite Gneiss	Black and grey mottled very coarse grained biotite schist comprised of 30-50% biotite and 50% quartz-feldspar appearing locally as siliceous fragments in biotite matrix or biotite patches in felsic matrix, local alkali feldspathization within biotite patches; 5%pyrite±pyrrhotite as schlieren/disseminated/blebs, locally 10% as stringers and clots									
41.3	42.2	Quartz Vein	White (bull) quartz vein with chlorite-biotite selvages, <1% sulphides									
42.2	43	Felsic Gneiss	Medium grained grey granitic gneiss with 20% biotite (disseminated), 1-2% disseminated/bleb pyrite±pyrrhotite parallel to S ₁									
43	54.6	Biotite Gneiss	Same as 27.5-41.3m; 5-10% pyrite-pyrrhotite, up to 20 cm zones of pink alkali feldspathization									
54.6	58.9	Pegmatite	Green-orange-white, feldspar-quartz pegmatite, muscovite dominates as mica, biotite restricted to wall rock selvages, quartz-alkali feldspar-plagioclase-muscovite, 3-5% pyrite-pyrrhotite as schlieren/disseminated/blebs interstitial to crystal boundaries									
58.9	60	Biotite Gneiss	Same as 27.5-41.3m; 3-5% pyrite									
60	87	Garnet – Biotite Gneiss	Medium grained 50-60% biotite, 5-10% garnet porphyroblasts, 3-5% pyrite±pyrrhotite between 60-67.7m, ~1% between 67.7-87m									

Drilling Company Compagnie de forage NOREX		Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 200	Total Footage Avancement total du forage 97	Dip of Hole at Inclinaison du forage au Collar/collier 60°	Address/Location where core stored Chapleau		Map	Claim No.	
Date Hole Started Date de commencement du forage July 10 2010		Date Completed Date d'achèvement July 11, 2010	Date Logged Date d'inscription au journal July 15, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer		Ft./Pi °		Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township		Property Name Borden Lake Project	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED		Logged by (Signature) Inscrit par (signature)		Ft./Pi °							
				Ft./Pi °							
Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)				Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage	Sample Length
From/De (m)	To/A (m)									From/De	To/A
0	3	OB									
3	15	Biotite Gneiss	Very coarse grained grey mottled biotite schist with 5-10% pyrite-pyrrhotite as schlieren/bleb/disseminated parallel to S ₁ ; 1-2% garnet								
15	15.6	Quartz Vein	White grey quartz vein with 3-5% pyrite+pyrrhotite along crystal boundaries								
15.6	25	Felsic Gneiss	5-10% disseminated / clotty biotite in medium to coarse grained quartz-feldspar matrix, moderately developed layering, local zones of pink alkali feldspathization, 5% disseminated /bleb/schlieren parallel to S ₁								
25	41.1	Biotite Gneiss	medium to coarse grained biotite schist (20-40% biotite), ~1% garnet, 10% pyrite-pyrrhotite as schlieren/disseminated/blebs parallel to S ₁								
41.1	58.4	Felsic Gneiss	5-10% disseminated biotite, <1% garnet, 10% alkali feldspar zones 10-100 cm wide, minor pegmatite dyklets, 5-10% pyrite-pyrrhotite as schlieren/disseminated/blebs, locally semi-massive at 48.1m and 55.3-55.7m								
58.4	59.5	Pegmatite	Green-orange-white, feldspar-quartz pegmatite with biotite selvages, 1-2% disseminated/blebby pyrite-pyrrhotite								
59.5	66.2	Biotite Gneiss	Very coarse grained biotite-muscovite schist, 10% pyrite-pyrrhotite, locally semi-massive at 62-62.4m								
66.2	68.2	Pegmatite	Green-orange-white, feldspar-quartz pegmatite with 40% biotite, <5% pyrite-pyrrhotite								
68.2	97	Garnet – Biotite Gneiss	Medium to coarse grained biotite (30-50%) garnet (5-10%) schist with 1-2% pyrite-pyrrhotite disseminated parallel to S ₁ ; pegmatite dyklets at 82.9-83.4m; 88.1-88.9m and 95.1-95.7m								
	97	EOH	End of Hole								

Drilling Company Compagnie de forage NOREX	Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 200	Total Footage Avancement total du forage 134.4	Dip of Hole at Inclinaison du forage au Collar/collier 60°	Address/Location where core stored Chapleau	Map	Claim No.
Date Hole Started Date de commencement du forage July 11, 2010	Date Completed Date d'achèvement July 12, 2010	Date Logged Date d'inscription au journal July 15, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer	Ft./Pi °	Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township			
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED			Logged by (Signature) Inscrit par (signature)	Ft./Pi °				
				Ft./Pi °				

Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage		Sample Length
From/De (m)	To/À (m)						From/De	To/À	
0	3	OB							
3	24.2	Felsic Gneiss	Fine to medium grained grey-dark grey siliceous gneiss with 10-30% biotite, 1-2% pyrite in local patches of 2-3% fine to coarse disseminated						
24.2	31.4	Biotite Gneiss	30% biotite in siliceous matrix, 2-3% pyrite-pyrrhotite as fine to coarse grained disseminated						
31.4	40.7	Felsic Gneiss	5-10% disseminated biotite in fine to medium grained granitic gneiss, local sericite alteration around thin quartz veins, local feldspathization, ~1% fine disseminated sulphides						
40.7	58.6	Diabase	Fine to medium grained dark green massive diabase, <1% fine quartz veining, locally 3-5% at footwall contact, <1% sulphides						
58.6	60.5	Felsic Gneiss	Same as 31.4-40.7m, but 3-5% pyrite as schlieren/blebs/disseminated						
60.5	62.1	Pegmatite	Green-orange-white, feldspar-quartz pegmatite; 1-2% blebby pyrite-pyrrhotite						
62.1	65	Felsic Gneiss	5-10% biotite, locally 20%, 5% pyrite-pyrrhotite as schlieren/blebs/disseminated						
65	77.6	Biotite Gneiss	Medium to coarse grained biotite schist, 30-40% biotite, typically coarse grained, 5-10% pyrite-pyrrhotite as schlieren/blebs/disseminated parallel to S ₁						
77.6	104.8	Felsic Gneiss	5-20% biotite in siliceous matrix (locally 20-30%), interval contains minor biotite schist layers, 3-5% pyrite-pyrrhotite, locally 5-10% as schlieren/blebs/disseminated						
104.8	108	Biotite Gneiss	Interval of mixed pegmatite-biotite schist (20:80) with 5% pyrite-pyrrhotite as schlieren/blebs/disseminated parallel to S ₁						
108	111.5	Pegmatite	Green-orange-white, feldspar-quartz pegmatite with wallrock selvages, 1-2% disseminated/blebby pyrite-pyrrhotite						
111.5	113	Biotite Gneiss	30% biotite, 5% pyrite-pyrrhotite as schlieren/blebs/disseminated						
113	134.4	Felsic Gneiss	5-10% biotite, 2-3% pyrite-pyrrhotite locally 5% associated with pegmatite dykes, stringers at 121.2m & 128.8m						
	134.4	EOH	End of Hole						

Drilling Company Compagnie de forage NOREX		Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 200	Total Footage Avancement total du forage 101	Dip of Hole at Inclinaison du forage au Collar/collier 45°	Address/Location where core stored Chapleau		Map	Claim No.		
Date Hole Started Date de commencement du forage July 12, 2010		Date Completed Date d'achèvement July 13, 2010	Date Logged Date d'inscription au journal July 16, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer		° Ft./Pi		Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township		Property Name Borden Lake Project		
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED		Logged by (Signature) Inscrit par (signature)		° Ft./Pi								
				° Ft./Pi								
				° Ft./Pi								
Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)				Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage		Sample Length
From/De (m)	To/À (m)									From/De	To/À	
0	2	OB										
2	5.1	Garnet-Biotite Gneiss	40-50% biotite, 5-10% garnet, 1-2% pyrite-pyrrhotite disseminated/blebby									
5.1	17	Meta-conglomerate	Siliceous clasts (up to 6 cm) in biotitic matrix, clasts are stretched, 1-2% disseminated/blebby pyrite,									
17	36.9	Meta-sediment/ conglomerate	Intermixed medium to coarse grained siliceous units containing variable biotite, some conglomerate units, mixed sediments, 1-2% sulphides, @ 21.6-22.5m green-orange-white pegmatite; @ 31.7m is a 30cm quartz vein with pyrite; @ 34.4m is a 30cm quartz vein with pyrite									
36.9	45.2	Garnet-Biotite Gneiss	Same as previous, 2-3% sulphides, @ 42.5-43.3 – pegmatite									
45.2	57.9	Felsic Gneiss	5-10% biotite, siliceous matrix minor pegmatite, pervasive sericitic alteration at footwall contact with diabase (55.5-57.9m), 1-2% pyrite-pyrrhotite									
57.9	92.1	Diabase	Fine-grained diabase									
92.1	101	2 Mica Granite	Coarse to very coarse grained biotite muscovite granite, 1-2% pyrite, intense alkali feldspathization zone at 92.1-96.4m									
	101	EOH	End of Hole									

Drilling Company Compagnie de forage NOREX		Core Size Dimensions de la carotte NQ	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 200	Total Footage Avancement total du forage 104	Dip of Hole at Inclinaison du forage au Collar/collier 45°	Address/Location where core stored Chapleau		Map	Claim No.	
Date Hole Started Date de commencement du forage July 13 2010		Date Completed Date d'achèvement July 14, 2010	Date Logged Date d'inscription au journal July 16, 2010	Logged by (print) Inscrit par (écrire en lettres moulées) D. Palmer		° Ft./Pi		Location (Twp. Lot, Con. or Lat. and Long.) Cochrane Township		Property Name Borden Lake Project	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option PROBE MINES LIMITED		Logged by (Signature) Inscrit par (signature)		° Ft./Pi							
				° Ft./Pi							
				° Ft./Pi							
Footage/Avancement		Rock type	Description (Colour, grain size, texture, minerals, alteration, etc.)				Planar Featur	Ref Sample No.	Geochem Sample No.	Sample Footage	
From/De (m)	To/À (m)									From/De	To/À
0	6.2	OB									
6.2	7.2	Pegmatite	Green-orange-white feldspar-quartz pegmatite with muscovite, <1% sulphide								
7.2	33	Metasediment	Grey with white spotted metasediment consisting of medium grained feldspar-biotite matrix containing 20-30% coarse (up to 1cm) white feldspar clasts, unit is generally massive with occasional weak foliation defined by biotite, typically ~1% fine disseminated pyrite, locally 1-2%, throughout matrix At 31.7-32.2 m – white bull quartz vein, barren; At 45.7-46.1 quartz vein with chlorite selvadges and 2-3% pyrite-pyrrhotite clots								
33	34.8	Diabase	Fine-grained, dark green black diabase, <1% sulphides								
34.8	54.2	Metasediment	Same as previous, at 52.4-52.7m – quartz vein with 2-3% blebby pyrite-pyrrhotite								
54.2	78.9	Felsic Gneiss	Similar to biotite bearing, weakly to moderately well layered “gneiss” in previous DDHs, 10-15% biotite in siliceous matrix, <1% garnet, ≤1% sulphide								
78.9	104	Garnet-Felsic Gneiss	Similar matrix to 54.2-73.9 but 5% coarse grained (up to 1 cm) garnet porphyroblasts, ≤1% sulphide, garnet found concentrated in layers up to 10cm wide								
	104	EOH	End of Hole								