LOUBEL Exploration's Massey Project

Diamond Drilling Report Massey Township Porcupine M.D., Ontario NTS 42A/12

By

J.D. Chris Dupont P.Eng. October 29, 1997

2.18075



42A12SW0002 2.18075 MASSEY

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42A12SW0002 2.18075 MASSEY

1.0 SUMMARY

LOUBEL Exploration Inc. has completed 3 BQ size diamond drill holes for a total of 964 feet (294M) on a property in Massey Township between August 18 and September 05, 1997. Drilling was contracted to Nighthawk Drilling Ltd. of Timmins, Ontario. The core was logged by J. Boissoneault, and assisted by Mr. Chris Dupont.

The drillholes were located to test two coincident northerly - trending magnetic "highs" with associated zones of electrical conductivity over a total length of approximately 250 meters.

The coincident mag and E.M. anomalies were interpreted as being due to massive or semimassive sulfide zones because field survey on the property has shown the presence of gossan zones, sulfide mineralization, and in the sulfides, copper in the form of chalcopyrite.

All 3 holes drilled intersected significant and extensive alteration to chlorite. The chlorite alteration increases as one goes north. The volcanics encountered were observed to be fragmetal and brecciated. Rocks have undergone alteration from Feldspar to chalky clay minerals, and from pyroxene to amphibole.

In holes 97-03 and 97-02 an infusion of smoky blue/grey silica containing pyrite and pyrrhotite was observed. Analysis of the core indicated anomalous and increasing values of copper and zinc as one goes north along the silica infusion.

This alteration is indicative of hydrothermal activity commonly associated with the formation of some types of ore deposits. It is recommended that the other electromagnetic conductors on the property be drilled, and a search for deeper mineralized zones using I.P. be undertaken. Lithogeochemical studies are also recommended.

2.0 INTRODUCTION

A re-interpretation of the VLF and Ground Magnetometer survey conducted in 1991 was undertaken by Loubel Exploration Inc. in the fall of 1997. This study concluded that several EM anomalies located in favourable geology merited drill testing. Two of the four selected EM anomalies were drilled and the results are the subject of this report.

3.0 LOCATION, ACCESS, PHYSIOGRAPHY

The subject claims are located about 22 miles (35 km.) due west of the town centre of the City of Timmins, Ontario, in Massey Township. They may be reached by travelling southwest along Highway 101 to a point 1 kilometre beyond the Malette Timber Company plant, where a gravel road may be followed westward a further 22 miles. This road reaches within a half mile (1km.) of the northeast corner of the ground. Walking trails, claim lines, and cut grid lines permit access and location from there.

The ground, like most of Northern Ontario, especially near the clay belt, is monotonously flat, except on the claims themselves, where north-trending diabase dikes form modest ridges which rise some 50 feet (15 metres) above the local level of the land.

The area is covered by a moderately dense forest of mixed deciduous and coniferous trees and shrubs.

4.0 **PROPERTY**

The property consists of a contiguous block of unpatented mining claims situated in the northwestern part of the Township of Massey, Porcupine Mining Division, District of Cochrane, Ontario.

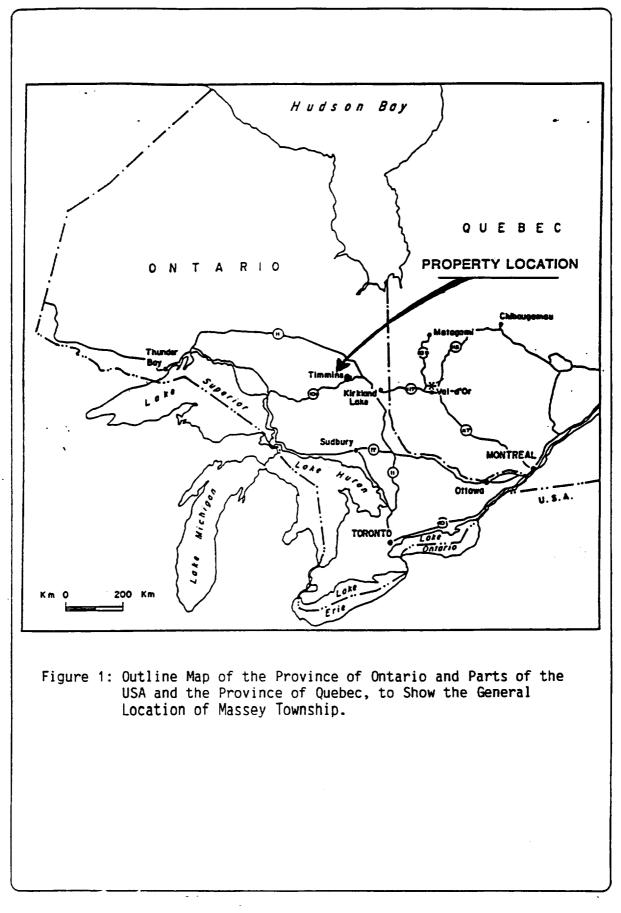
Figure 1, page 3, and Figure 2, page 4, show the general location of the area in the Province of Ontario, and the specific location of the claims in Massey Township, respectively. The claims themselves form a north-south oriented rectangle with a aggregate area of about 240 acres (approximately 97 hectares) and are numbered:

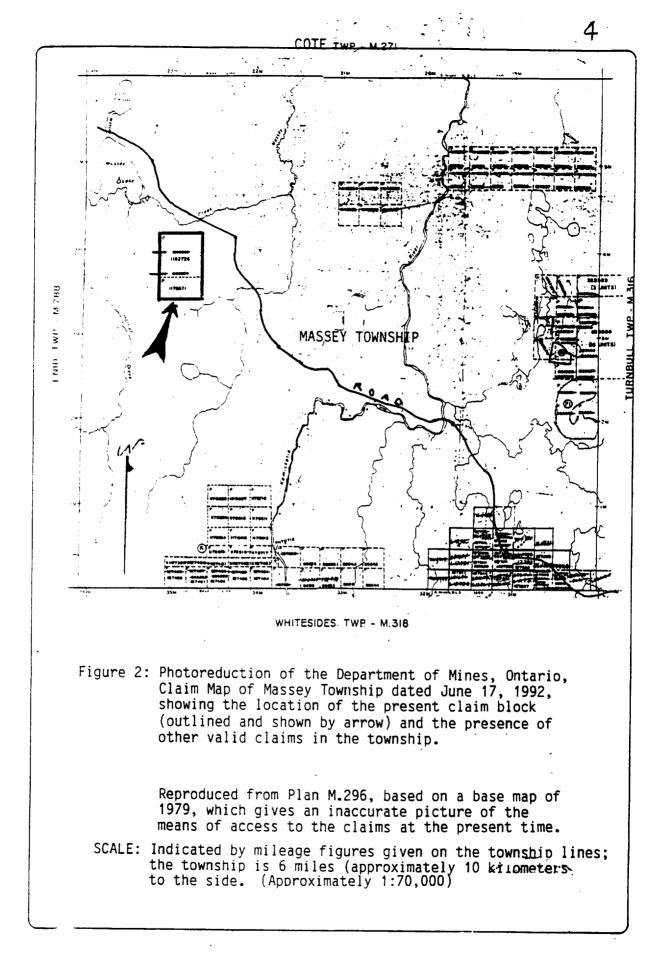
P.1176671, approximately 80 Acres P.1182726, approximately 160 Acres.

Both digital and the original records pertaining to these claims were searched at the Office of the Mining Recorder of the Ontario Ministry of Northern Development and Mines, Timmins. These records indicate that the claims:

- a. were staked on July 24 and July 25, 1991,
- b. were recorded on July 25, 1991,
- c. are currently registered in the name of John Raymond Boissoneault, 670 Spruce Street North, Timmins, Ontario,
- d the claims were in good standing until July 24, 1997,
- e. no assessment work credits have been applied against the claims to extend this date but an order has been issued by the Mining Recorder granting an extension for performance of the deficiency of the work on the mining claims, to July 24, 1998.
- f. have no liens, encumbrances, cautions, or other impediment recorded against them but have been optioned by Mr. Boissoneault to Loubel Exploration Inc. of Noranda, Quebec.

Table 1 lists the claims, ownership, and current status of assessment work requirements prior to filing credits resulting from the work described in this report.





Claim No.	Units	Rec. Date	\$ Filed	Due Date	Required	Reserves
P1176671	2	25 Jul 91	\$3414	25 Jul 98	\$1386.	\$ 0.00
P1182726	4	25 Jul 91	\$6829	25 Jul 98	\$2771	\$ 0.00

 TABLE 1
 Claim Status

Notes:

- (1) Claims are registered in the name of J.R. Boissoneault
- (2) Claim status table is dated as of October 28, 1997.
- (3) Claims have been optioned to Loubel Exploration Inc.

5.0 PREVIOUS WORK ON THE PROPERTY

The Assessment Files at the Ontario Resident Geologist's office in Timmins were searched without locating any indication of previous geological or prospecting activity, or of geophysical or geochemical surveys, or of diamond drilling on or near the property prior to staking of the claims in 1991. Noranda Mines Limited are recorded as having staked the ground in 1988, but do not appear to have dome any exploration on the ground before it was allowed to lapse.

6.0 DRILL PROGRAM

Nighthawk Drilling Ltd. Of Timmins, Ont. was contracted to drill the holes. A unitized skid mounted Longyear 38 drill rig was used for this work. A total of 964 feet (294.0 m) of BQ size core drilling was completed at 3 sites in the period from August 18 to September 5, 1997. The locations of the drill sites are shown on Figures 3A and 3B, which accompany the drill logs in Appendix 1. Drill sections are presented in Figure 4-97-01, Figure 5-97-02, Figure 6-97-03, which are also in Appendix 1.

Drill Hole 97-01

This drill hole was sited at location 0 + 48S and L 398W and drilled at azimuth of 250° with an inclination of -55° for a total depth of 110 meters. The target was an EM/VLF anomaly located on claim P1182726 which was recognized in the geophysical interpretation as possibly caused by massive or semi-massive sulfides.

The overburden was found to be a 0.4 meters.

Fine to medium grained metagabbro persisted to a depth of 37 meters.

Dark fine grained amphibololite was noted from 37 to 44 meters with repeating zones of intensive silicification with numerous stringers of disseminated pyrite and pyrrhotite. Some smoky grey quartz stringers were observed.

The remaining core to 110 meters was highly chloritized with one area containing silicified bands up to 3.0 meters in width containing sparse dissemination of pyrite and pyrrhotite.

Drill Hole 97-02

This drill hole was sited at location 0 + 67N and L 503W and drilled at azimuth of 250° with an inclination of -45° for a total depth of 74 meters. The target was another EM/VLF anomaly located to the north and east of the first anomaly on claim P1182726 which was also recognized in the geophysical interpretation as possibly caused by massive or semi-massive sulfides.

The overburden was found to be at approximately 1.0 meters.

The hole was collared in granular, medium grained metagabbro, with slightly sheared and fractured sections with some chlorite. At 5.7 meters a sharp contact with greenish, fine grained to medium grained highly chloritized amphibolite was encountered. The zone was noted as extremely hard and massive.

- 6 -

From 10 to 18 meters, dark, fine grained amphibolite was encountered in a band which was intensely silicificied. The silicified areas were well mineralized with continuous streaks of pyrite and pyrrhotite with the odd specks of chalcopyrite. The quartz had a smoky blue grey colour and contained anomalous zinc values.

The remaining core was dark, fine grained, greenish rock containing containing cemented fragments and some remnant amygdules. Section 25 to 30m was similar to sections 10 to 15m. Hole bottomed out in medium to course grained metadiortite with well formed gneissic bands.

Drill Hole 97-03

The drill hole was sited at location 0 + 32N and L 469W and drilled at azimuth of 250° with an inclination of -45° for a total depth of 110 meters. The target was the fault zone located on claim P1182726 which was recognized in the geophysical interpretation as a possible cause to the offset of the EM/VLF anomaly and contained sulfide mineralization at surface.

The overburden was found to be at 1.0 meters.

The hole was collared in a granular medium to coarse grained metagabbro that was lightly chloritized and becoming coarser down hole. The core was generally unmineralized until at about 26 meters down hole after which some stringers of pyrite and pyrrhotite with the odd tiny speck of chalcopyrite was observed in a silicified zone down to 45 meters in a metagabbro.

At 45 meters, dark, fine grained, extremely hard amphibolite was encountered and the occurance of sulfides diminished.

There is some sparse mineralization of pyrite down the hole at 88 to 93 meters. Otherwise, the bottom of hole was relatively unmineralized and ended in a gneissic metadiorite.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The 3 diamond drill holes tested 2 Airborn EM conductors in the west central part of the property which had been precisely located by the VLF method. No economically significant Cu or Ni mineral accumulations were noted in the cores. Rather the causative sources for the airborn EM anomalies at both locations were attributed to pyrite/pyrrhotite disseminated zonal mineralization.

The lithologies traversed by the diamond drilling suggest that the area is situated on the apron of a mafic eruptive centre. The flows and pyroclastic units encountered suggest intensive tectonic activity has taken place along the intrusive front. This concept is compatible with the local geology, and with geology interpreted from airborne magnetic data, which indicate that a north-trending volcanic intrusive contact is located slightly east of the current drill locations. These contacts have long been favoured as exploration targets for base metal massive sulphide deposits.

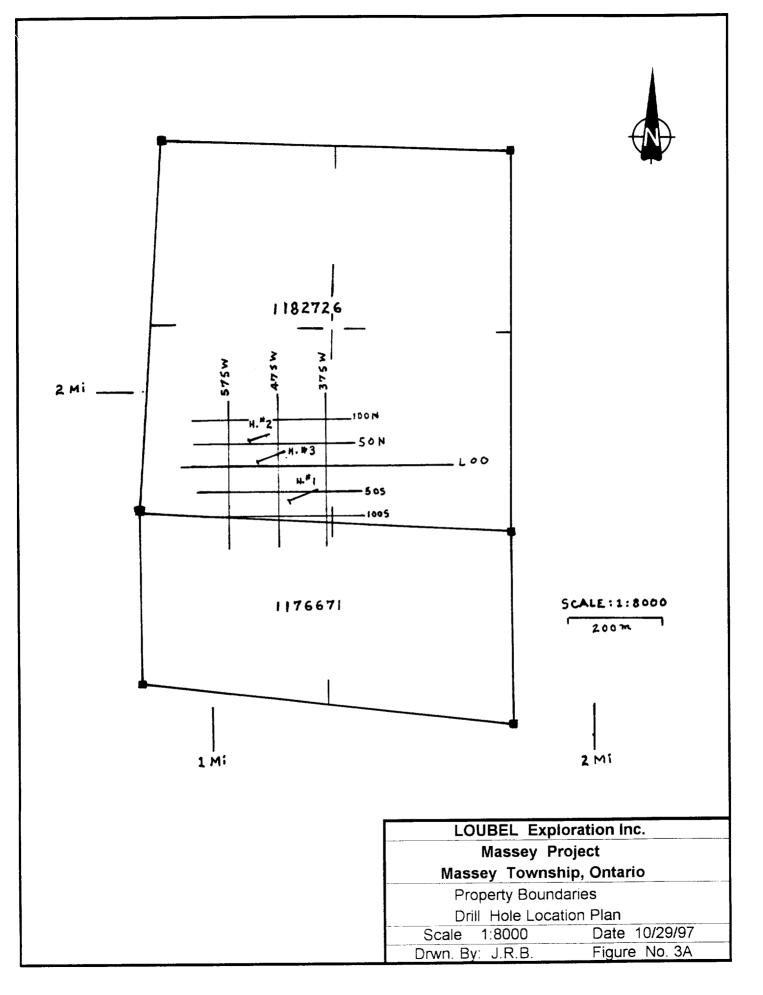
The alteration present in all of the cores is encouraging from the viewpoint of base metal massive sulphide exploration. Extensive alteration to chlorite is a common wall rock feature in proximity to volcanogenic massive sulphide deposits in the Abitibi Greenstone Belt. The presence of increasing annomalous values of Cu and Zn in the zone of silicification as well as disseminated pyrite in the quartz vein in diamond drill hole 97-02 and 97-03 indicates that intense hydrothermal activity has occurred in this area. Further exploration along these alteration zones could lead to the discouvery of significant mineralized zones.

It is recommended that further exploration on this property be conducted by drilling the other 2 Airborn EM targets. It would be highly adviseable to conduct a deep penetrating I.P. Survey, and geochemical studies of the alteration horizons along the intrusive/volcanic contact to the north.

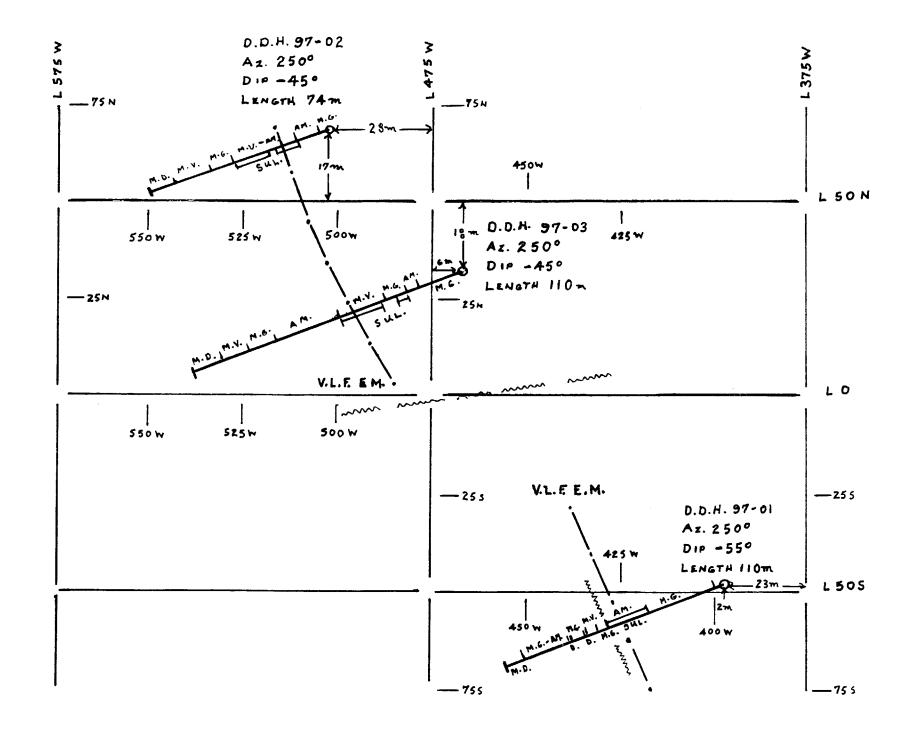
8.0 **REFERENCES**

- Barrie, C.T., <u>Geology of the Kamiskotia Area: Ontario Geological Survey Open File</u> <u>Report 5829</u>, 1992.
- Boissoneault, J.R., <u>Geological and Geophysical Report of the Massey Township</u> Claim Blocks in the Porcupine Mining Division, 1993.
- Kirwan, J.L., Geology of the Porcupine Area, University of London, 1968.
- Luhta, L.E., <u>Timmins Resident Geologist's District Annual Report</u>, Ministry of Northern Development and Mines, Ontario Geological Survey, pp. 229-260.
- <u>Aeromagnetic/Airborne Electromagnetic Map, Timmins Area, Massey Township,</u> <u>Sheet 81075</u>, Ministry of Northern Development and Mines, 1998.
- Geological Survey of Canada Aeromagnetic Contour Map 2300G, 1972.
- Geological Survey of Canada Aeromagnetic Contour Map, Kamiscotia lake Sheet 292G, 1958.
- Geological Survey of Canada Aeromagnetic Contour Map, Kamiscotia Lake Sheet 299G, 1958.
- Ontario Geological Survey Map 2205, Timmins-Kirkland Lake Sheet, 1972.
- Ontario Ministry of Natural Resources, <u>Vertical Air Photograph 61-4821-61-145</u>, 1961.
 - Wolfe, W.J., Distribution of Copper, Nickel, Cobalt and Sulfer in Mafic Intrusive Rocks of the Kamiscotia - Whiteside Area, District of Cochrane, 1970.

APPENDIX # 1



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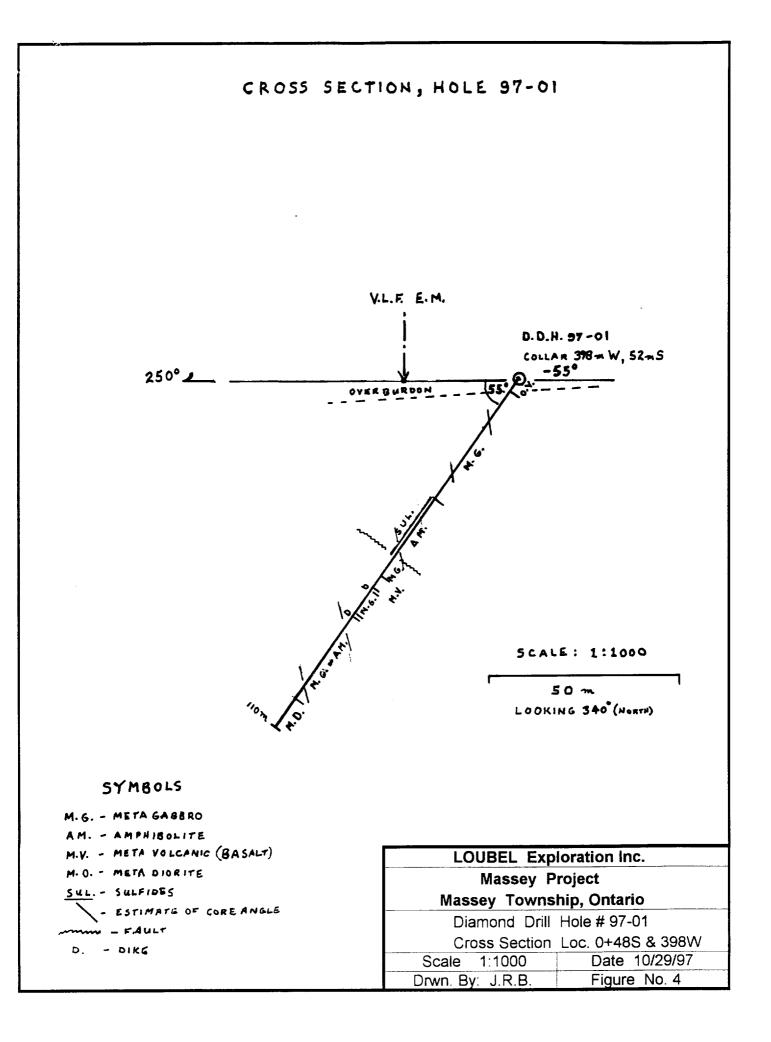


M.G. - META GABBRO AM. - AMPHIBOLITE M.V. - META VOLCANIC (BASALT) M. D. - META DIORITE SKL. - SKLPHIDES

SCALE : 1:1000

50m

LOUBEL Exploration Inc.						
Massey Project						
Massey Townsh	nip, Ontario					
Surface Project	ion of Drill Hole					
Collar Location	S					
Scale 1:1000	Date 10/29/97					
Drwn. By: J.R.B.	Figure No. 3B					



		DIAMON	D DRIL	L RECORD	Hole No	97-01	Sheet No	1 of 4	
			Dip						
Property	Loubel Exploration Inc.	-55		23 meters		Elev. Collar			
· · · -		-55		98 meters		Datum	atum		
Location	Massey Township					Date Started	18 Aug. 1997	7	
_	claim # 1182726					Date Completed	22 Aug. 199		
-	Massey Project					•			
Latituda						Drilled by	Nighthawk dr	liling	
Latitude						Logged by	J.Boissoneau	lt	
Departure						209900 - ,	<u></u>		
Bearing	250 degees	Total Footage 1	10 me	ters					

Faat	to a o	Formation	Sample	Sample	Assay	Assay	Assay	Assay	Remarks
From	tage To		Number	Footage	Cu	Ni	Au	Zn	
0	0.4								Cu, Ni, Zn, in PPM
0	0.4	Casing							Au in PPB
0.4	24,5	Granular medium grained metagabbro (hornblend crystals in a							
		groundmass of silica and chalky felspathic material).						ļ	
		Lightly sheared and chloritized with narrow streaks of chlorite						<u> </u>	
		and some white quartz veins 40 degrees - 50 degrees.							
		Some slightly silicified areas with the odd specks of pyrite.							
24.5	37	Fine to medium grained metagabbro becoming coarser							
2		down section. Increase in shearing and chloritizatin at 40 degrees	6						
		to the core. Thin barren quartz veins 40 degrees.					ļ	ļ	
		Relatively unminerilized.							
37	44	Dark,hard, very fine grained amphibolite (60 % hornblende	6762	38-39	77	36	Nil	-	
37	44	and 30% silica). Moderately sheared and chloritized at 45	6763	39-40	228	41	2	-	
		degrees to the core. Repeating zones of intensive	6764	40-41	18	11	Nil	-	
		silicification containing numerous stringers and dissemination of	6765	41-42	27	12	Nil	77	
		pyrite and pyrrhotite at 40 degrees . Some smoky grey quartz							
		stringers at 40 degrees.	<u> </u>						· ·
44	53.5	Dark , fine grained amphibolite. Well sheared and chloritized.	6751	44-45	41	25	Nil	40	
***	55.5	Highly silicified with numerous bands of silica and quartz veins	6752	45-46	193	41	2	-	
		at 45 degrees . Mineralized throughout with streaks	6753	46-47	42	33	2	-	
		dissemination and massive sections of pyrrhotite and pyrite	6754	47-48	167	40	Nil		
<u> </u>		which coincide with conform to bands of intensive silification	6755	48-49	114	28	Nil	68	

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Date of Examination 23 Aug. 1997

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		DIAMOND [DRILL RECORD	Hole No	97-01
		Ĩ	Dip		
D. Jantas, Janhol Explor	ation Inc	-55	23 meters		Elev. Collar
Property Loubel Explor		-55	98 meters		Datum
Location Massey Town					Date Started
claim # 1182	726				Date Completed
Massey Proje	ct				Drilled by
Latitude			• 		Logged by
Departure		- 110) meters		
Bearing 250 degrees		Total Footage 110	meters		

Foot	tage	Formation	Sample Number	Sample Footage	Assay Cu	Assay Ni	Assay Au	Assay Zn	Remarks
From	То		6756	49-50	76	34	Nil	-	Cu, Ni, Zn, in PPM
44	53.5	alternating with chlorite sections.Odd speck of chalcopyrite.		<u>49-50</u> 50-51	80	27	7	-	Au in PPB
			6757		231	30	3		
			6758	51-52	72	40	Nil	-	
			6759	52-53	12	40			
53.5	54	Highly chlorictic badly broken core (fault?)				· · · · · · · · · · · · · · · · · · ·			
54	59	Medium graine metagabbro. Slightly gneissic and moderately		<u> </u>					
		sheared along the darker bands with slight chloritization.	<u> </u>						
		Streak of silification with slight sulfide disseminations at 45							
		degrees.	+						
		the lite Mell shoared and	6760	59-60	196	55	Nil	44	
59	63.5	Dark green , fine grained amphibolite. Well sheared and	6761	62-63	232	44	9	-	
		chloritized with chlorite blocks in a groundmass of fine grey	07.51	02.00					
		silicified material. (tectonic breccia or inclusions in metabasalt)							
		Pyrite and pyrrhotite in numerous stringers at 45 degrees.							
63.5	65	Sheared chloritic rock grades into fine grained metagabbro,							
		which is slightly gneissis with bands at 45 degrees ,			<u> </u>				
		Irregular quartz stringe and silicification, relatively unmineralized	. 		<u> </u>				
65	67.5	Massive, unsheared chloritic section with small well formed							
		hornblende crystals (Dike?)			<u> </u>		<u> </u>		

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	Sheet No	201 4
	18 Aug. 1997	
ed	22 Aug. 1997	
	Nighthawk Drilling	ļ
	J. Boissoneault	

		DIAMONE	DRILL RECORD	Hole No	97-01
			Dip		
Property	Loubel Exploration Inc.	-55	23 meters		Elev. Collar
Location	Massey Township	-55	98 meters		Datum
	claim # 1182726		i		Date Started
	Massey Project				Date Complet
Latitude					Drilled by
Departur	8				Logged by
Bearing	250 degrees	Total Footage 11	IO meters		

Footage		Formation		Sample	Assay	Assay	Assay	Assay	Remarks
From	То		Number	Footage	Cu	Ni	Au	Zn	
67.5	69	Fine grained mettagabbro like section 63.5 m to 65 m.							Cu, Ni, Zn, in PPM
									Au in PPB
69	74	Medium grained metagabbro grades into a pinkish medium graine	ed						
		metadiorite (remnants of albite crystals in a chalky groundmass							
		with quartz hornblende). Gneissic bands and shears at 45 degree	es.						
		Some irregular quartz veins, some pink in color							
		relatively unmineralized.							
74	75	Chloritic sections with small hornblende crystals (Dyke)?							
75	80.5	Dark granular, medium grained metagabbro.						:	
		Slightly gneissic with bands at 50 degrees. Very light							
		silicification in some areas but only the odd fine pyrite grains.							
80.5	95	Alternating sections of fine grained, dark, and slightly chloritized							
		Massive amphibolite and slightly gneissic medium grained							<u> </u>
		metagabbro. Weakly developed shearing at 40 degrees. Slicified							
		streaks up to 3.0 meters wide confined mainly to the metagabbr	0						
		sections and containing sparse dessimination of pyrite and pyrrh	otite.						
95	102	Dark granular, medium grained metagabbro. Slightly gneissic							
		Bands of silica at 40 degrees. Odd quartz veins or stringers							
		some containing coarse pyrite. A few extremely fine grained							
		lightly sheared and chloritized sections, almost massive.							
	<u> </u>								

Sheet No	3 of 4

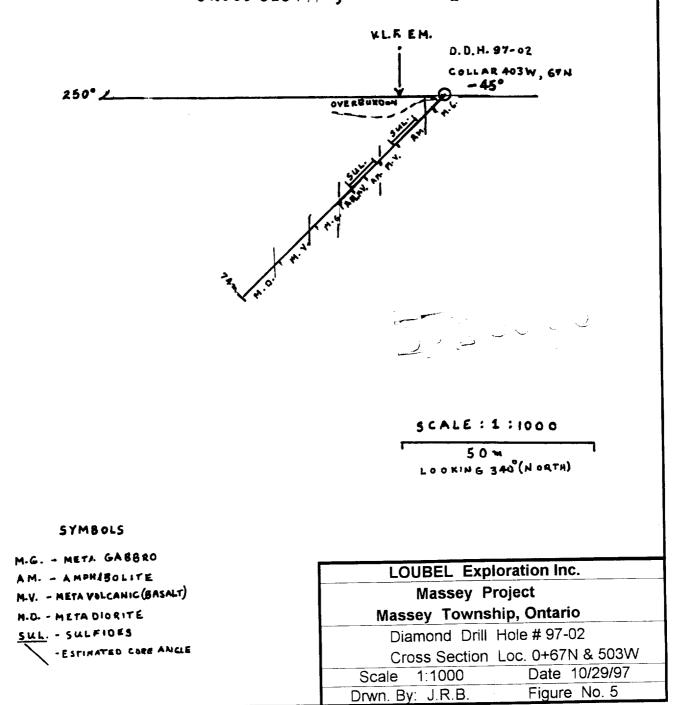
	18 Aug. 1997	
ted	22 Aug. 1997	
	Nighthawk Drilling	
	J. Boissoneault	

		DIAMOND [RILL RECORD	Hole No	97-01	Sheet No	4 of 4			
		Γ	Dip		lev. Collar					
		-55	-55 23 meters							
Property		-55	98 meters	D	Datum					
Location					ate Started	18 Aug. 1997				
-					ate Completed	1007				
-						Nighthawk Drilling				
Latitude						J. Boissoneault				
Departure	3				ogged by					
Bearing	250 degrees	Total Footage 110	meters							

Foota	a0e	Formation	Sample	Sample	Assay	Assay	Assay	Assay	Remarks
From	To		Number	Footage	Cu	Ni	Au	Zn	
102	110	Coarse grained metadiorite (albite remnants in chalky white							Cu, Ni, Zn, in PPM
		groundmass with chlorite) Slightly gneissec with bands at 40			•••••				Au in PPB
		degrees. A number of thin treaks of fine chlorictic material							
		irregular and almost massive. Silicified areas and the odd quartz							
		vein (some pink) somecontaining coarse pyrite at 45 degrees							
		Very sparse fine pyrite or pyrrhotite disseminations.							
	110	end of hole						<u>`</u>	
									
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			+						
				<u> </u>	<u> </u>	+			

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Date of Examination 23 Aug. 1997



CROSS SECTION , HOLE 97-02

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		DIAMOND D	DIAMOND DRILL RECORD		97-02
		D	ip		
Property	Loubel Exploration Inc.	-45	21 meters		Elev. Collar
• • •	Massey Township	-45	74 meters		Datum
	claim # 1182726				Date Started
-	Massey Project				Date Complete
Latitude					Drilled by
Departure	9				Logged by
Bearing	250 degees	Total Footage 74 m	neters		

Footage F		Formation	Sample	Sample	Assay	Assay	Assay	Assay	Remarks
From	То		Number	Footage	Cu	Ni	Au	Zn	
0	0.5	Casing						·	Cu, Ni, Zn, in PPM
									Au in PPB
0.5	5.7	Granular medium grained metagabbro (hornblende crystals in a							
		groundmass chalky white material containing silica).							
		Slightly sheared and fractured sections with some chlorite. White							
		barren quartz veins and the odd pyrite at 40 degrees.							
			· · · · · · · · · · · · · · · · · · ·						
5.7	10	Sharp contact with greenish fine grained to medium grained high	γ						
		chloritized amphibolite (50% to 60% hornblende in a matrix of							
		silica and chlorite) Some silicified streaks and barren quartz veins							
		at 45 degrees. Slightly sheared and fractured sections with							
		chloritization, but generally extremely hard and massive.							
10	18	Dark fine grained amphibolite. Bands of intensive silicification	6766	10-11	38	40	5	80	
10	10	(up to 70% silica), from 0.5 m to 3.0 m wide at 45 degrees, an	6767	11-12	186	40	Nil	486	
		repeating throughout the section. Silicified areas, well mineralize	/	12-13	142	110	15	442	
		with continuous streaks and dissemination of pyrite and pyrrhoti		13-14	262	52	3	890	
		with the odd speak of chalcopyrite at 50 degrees. Concordant	6770	14-15	870	58	3	4830	
		quartz stringers and shears containing biotite mica and chlorite,	6771	15-16	524	74	Nil	4250	
		but generally quite massive and very hard. Smoky blue/grey	6772	16-17	142	52	Nil	882	
		quartz colour.	6773	17-18	272	64	5	2050	
18	25	Dark fine grained lightly chloritized rock with remnants of white							
		amgdules of quartz, some with epidote centers. (meta-basalt).							
		Faint streaks of chlorite and the odd barren quartz stringer at 50°	#			<u> </u>		<u> </u>	

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Date of Examination 30 Aug. 1997

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Sheet No	1 of 3

	25 Aug. 1997	
ed	27 Aug. 1997	
	Nighthawk drilling	
	J.Boissoneault	

		DIAMONE	D DRILL RECORD	Hole No_	97-02	Sheet No 2	2 of 3			
			Dip							
Property	Loubel Exploration Inc.	-45	21 meters		Elev. Collar					
Location			74 meters		Datum					
	claim # 1182726				Date Started	25 Aug. 1997				
-	Massey Project				Date Completed	27 Aug. 1997				
Latitude			·····		Drilled by	Nighthawk Drilling				
Departure)				Logged by	J. Boissoneault				
Bearing	250 degrees	Total Footage 1	10 meters							

Foot	tage	Formation	Sample	Sample	Assay	Assay	Assay	Assay	Remarks
From	То		Number	Footage	Cu	Ni	Au	Zn	
18	25	relatively unmineralized.							Cu, Ni, Zn, in PPM
									Au in PPB
25	30.5	Dark fine grained amphibolite similar to sections at 10 m to 18	6851	25.5-26.5	150	40	10	110	
	:	Less intensive silicification, but well mineralized with stringers a	6852	26.5-27.5	74	32	5	80	
		dissimination of pyrite and minor pyrrhotite. Thin streaks of silica	6853	27.5-28.5	164	34	7	97	
		and quartz veins at 45 degrees to 50 degrees. Some narrow	6854	28.5-29.5	106	41	Nil	100	
		medium grained sections with the outline of chloritic fragments.	6855	29.5-30.5	113	22	Nil	262	
		(tectonic breccia or inclusuions in a meta-basalt).							
30.5	35	Dark greenish fine grained rock containing some remant amygdu	«≤ 6856	33.7-34.7	235	103	Nil	144	
		(meta-basalt). Fine, well foliated and chloritized sections at 50							
		degrees alternating with medium grained sections with grey quar	tz						
		veins and thin streaks of pyrite at 50 degrees near the end.							
		Outlines of dark fragments in several places.							
			-				ļ		
35	48.5	Medium grained, pale greenish grey, slightly gneissic metagabbro	•						
		dark bands at 55 degrees. Some finer grained more intensively					-		
		chloritized sections. Quartz stringers, some of them pink in color							
		and usually barren, conform to the gnessic bands.							
48.5	64	Dark, fine grained lightly chloritized rock with the odd quartz							
		filled amygdule (meta-basalt). Slightly sheared in places, with							
		bands of chlorite and barren quartz stringers at 55 degrees to 60							
		degrees. Sparse disseminations of fine pyrite.							

John Bannant

Date of Examination 30 Aug. 1997

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Sheet No	2 of 3

		DIAMOND [DIAMOND DRILL RECORD			
		ſ	Dip			
Property	Loubel Exploration Inc.	-45	21 meters		Elev. Collar	
Location	Massey Township	-45	74 meters		Datum	
-	claim # 1182726				Date Started	
-	Massey Project				Date Complet	
Latitude	· · ·				Drilled by	
Departure	8				Logged by	
Bearing	250 degrees	Total Footage 74 r	neters			

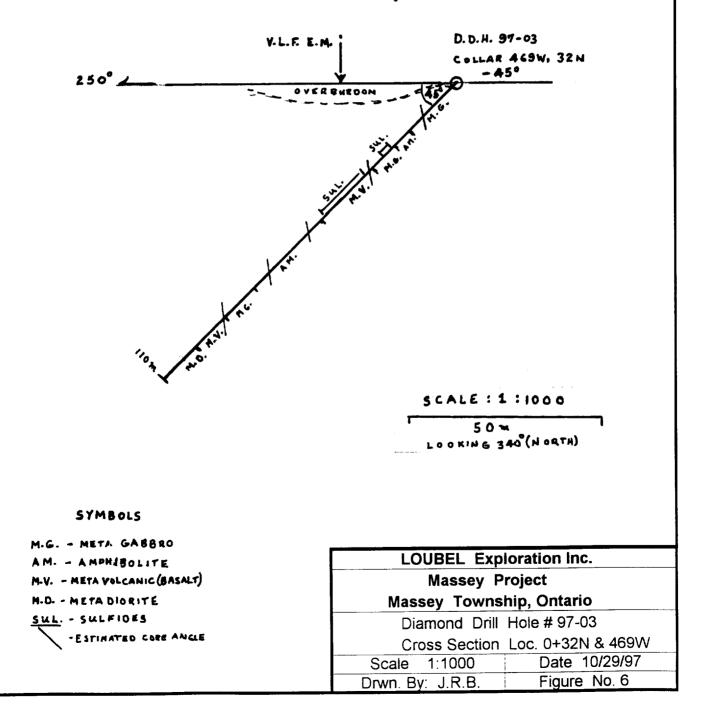
Footage		Formation		Sample	Assay	Assay	Assay	Assay	Remarks
From	То		Number	Footage	Cu	Ni	Au	Zn	
									Cu, Ni, Zn, in PPM
64	74	Medium to coarse grained metadiorite (hornblende crystals and							Au in PPB
		chlorite in a chalky white feldspar and quartz matrix). Well forme	d						
		gneissic bands at 60 degrees. Alternating dark and light sections							
		due to varying degrees of chloritization. Grain size deminishes							
		near the end.							······································
			<u>`````````````````````````````````</u>						
74		End of hole.							
									· ·
		·							
									<u> </u>

Yohn Samarian N

Date of Examination 30 Aug. 1997

2	Sheet No	3 of 3

d 25 Aug. 1997 eted 27 Aug. 1997 Nighthawk Drilling J. Boissoneault



CR055 SECTION, HOLE 97-03

I.

97-03 Hole No DIAMOND DRILL RECORD Dip Elev. Collar 20 meters -45 Datum_____ Property Loubel Exploration Inc. 110 meters -45 Date Started Location Massey Township Date Completed claim # 1182726 Drilled by Massey Project Logged by Latitude Departure 110 meters Total Footage Bearing 250 degees As Assay Assay Assay Sample Sample Formation Au Ni Cu Footage Footage Number То From Casing 0 1 Granular medium to coarse grained metagabbro. (hornblende 9 1 crystals in a chalky white groundmass containing quartz grains). Lightly chloritized and becoming coarser down section. Massive and relatively unmineralized Medium grained metagabbro. Slightly sheared and chloritized at 17 9 40°. A few barren quartz veins in the first three meters at 50°. Nil 40 17-18 136 6862 Dark fine grained, extremely hard amphibolite. (over 70% 10 5

17	19.5	Dark fine grained, extremely hard amprisoned	
		hornblende). Lightly sheared and chloritized in places with	
		concordant quartz stringers at 50° to 60°. Chloritic bands contain	
		sparse dissemination of fine pyrite at 50° to 60°.	
		sparse dissemination or mile pyras	
19.5	22	medium grained metagabbro similar to section 9m to 17m.	
19.5			
22	23.5	dark fine grained amphibolite similar to section 17-19.5.	
23.5	25	Medium to coarse grained slightly gneissic metagabbro. Strongly	
23.5	20	aboared and intensely chloritized at 60°, but sometimes in	
<u>, </u>		contented zones of chlorite shist. Areas with chloritic fragments	
		in a mostly silicious matrix (techtonic brecciation or inclusions	
		near contact). Some irregular streaks and disseminations of	
		pyrrhotite and pyrite.	

Jelm Barrow M

Date of Examination 05 Sept. 1997

Sheet No	1 of 3

	28 Aug. 1997	
d	02 Sept. 1997	
	Nighthawk drilling	
	J.Boissoneault	

ssay Zn	Remarks
	Cu, Ni, Zn, in PPM
	Au in PPB

		DIAMOND [RILL RECORD	Hole No	97-03	Sheet No	2of 3
		C	Dip				
Property	Loubel Exploration Inc.	-45	20 meters	E	lev. Collar		
• • • -	Massey Township	-45	110 meters	C	Datum		······
Location	claim # 1182726				Date Started	28 Aug. 1997	
-					ate Completed	02 Sept. 1997	
	Massey Project				Drilled by	Nighthawk Dril	
Latitude Departure						J. Boissoneaul	
			motors	L	.ogged by	0. 00100011044	
		Tatal Fastage 110	motore				

earing	250 degr	ees Total Footage	110 mete	rs						
			Sample	Sample	Assay	Assay	Assay	Assay	Remarks	
Footage		Formation		Sample Footage	Cu	Ni	Au	Zn		
From	То		Number	25.5-26.5		594	5	110	Cu, Ni, Zn, in PPM	
25	26.4	Metagabbro is intensely silicified and contains grey quartz veins,	6857	25.5-20.5					Au in PPB	
		along with stringers and desseminations of pyrrhotite and pyrite								
		varying from 30° to 60°. Odd tiny speck of chalcopyrite.								
26.4	32	Medium grained gneissic metagabbro. Generally slightly sheared								
		and chloritized, but with highly chloritic bands at 60°. Odd barre	en			<u></u>				
		quartz vein. Epidotized near end of section.								
			0 . 0050	22.22	274	51	Nil			
32	45.5	Dark, very fine grained, extremely hard amphibolite. (at least 60	<u>% 6858</u>	32-33		50	12	<u> </u>		
		hornblende in a matrix of silica and chlorite). Some greenish	6859	33-34	118		7	212		
		lightly sheared but well chloritized zones alternating with zones	6860	34-35	67	34		212		
		strong silicification containing quartz veins, all at 50° to 60°.	6861	41-42	95	23	27			
		Remnants of amygdules suggest a meta basalt. Well mineralized	6863	37.5-38.5		31	-	79		
		in several places with streaks of pyrrhotite and stringers of pyrit	6864	42-43	21	12	5	103		
•		Odd speck of chalcopyrite.	6865	43-44	29	30	7	93		
45.5	52	Grain size increases down section to medium grained. Bands								
45.5	52	suggesting cemented shears, lightly chloritized. Odd quartz vein								
		at 60°.								
52	78.4	Medium grained amphibolite, (30% to 60% hornblende crystals i	n					<u> </u>		
		a matrix of white chalky material, silica and chloritic fragments).					<u> </u>	───		
		Lightly sheared and chloritized. Alternating silicious zones and					<u> </u>			
		fine dark chloritic sections, lightly sheared at 50° to 60°.								
		Generally unmineralized						L		

John Banarean

		DIA			Hole No	97-03	Sheet No	<u>3 of 3</u>
			Di	D				
Property	Loubel Exploration Inc.	-45)	20 meters		Elev. Collar	······	
Location	Massey Township	-45	; ;	110 meters		Datum	atum	
Looution	claim # 1182726					Date Started	28 Aug. 1997	
	Massey Project					Date Completed	02 Sept. 1997	
Latitude			:			Drilled by	Nighthawk Drilling	
Departure	9					Logged by	J. Boissoneault	
Bearing	250 degrees	Total Footage	110 r	neters				

Foo	tage	Formation	Sample	Sample	Assay	Assay	Assay	Assay	Remarks
From			Number	Footage	, Cu	Ni	Au	Zn	
78.4	88	Coarse grained metagabbro or metadiorite, (chalky feldspathic	6866	87-88	12	54	3	60	Cu, Ni, Zn, in PPM
		grains in a matrix of silica, chlorite and hornblende). Slightly							Au in PPB
	:	shearing with highly chloritic bands at 50° to 60°. Silicious							
		sections containing a few stringers of fine pyrite.							
88	93	Medium grained amphibolite. Lightly sheared and chloritized at	6867	89-90	80	25	3	49	
		60°. Siliceous sections containing sparse disseminations of fine							
		pyrite and bands of epidotization. Barren white quartz stringers							
······		50°.	· · · ·			<u> </u>		 	
93	99.5	Dark, hard, fine grained amphibolite, (in excess of 60%							
		hornblende). Lightly chloritized with remnants of amygdules of					<u> </u>		
		silica (some of them pink). Areas with highly chloritic fragment						<u> </u>	
		outlines in a siliceous groundmass. (inclusions in a meta-baslt?).							6-2
		Some thin barren quartz veins at 60°. A few thin fractures with			-				
·		pyrite.							
99.5	104	Dark, hard amphibolite, Fine grained sections, similar to							
		93m-99.5m, alternating with medium gained sections, similar to							
		88m to 93m. Generally unmineralized.					+		
104	110	Medium grained gneissic metadiorite, (green chlorite and							
		horblende crystals in a groundmass of chalky feldspar and silica)	•						
		Well sheared and chloritized, with chlorite bands and barren							-
		quartz stringers at 50° to 60°. Relatively un mineralized.						ļ	
110		End of hole						1//	

John Branneas

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Date of Examination 05 Sept. 1997

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	28 Aug. 1997	
ted	02 Sept. 1997	
-	Nighthawk Drilling	
	J. Boissoneault	

	rthern Development d Mines	Performed on Mini	ing Land	W980 00036
		Mining Act, Subsection 65(2)	_	Assessment Files Research Imaging
rsonal information """" ning Act, the info lestions about t 3 Ramsey Lake			ant work and cor	e Mining Act. Under section 8 of the respond with the mining land holder. evelopment and Mines, 6th Floor,
structions: - Please	type or print in in		900 aim, use form	n 0240.
Recorded holder(s)) (Attach a list if	necessary)	•	y :
	Boissonea	. . .	Telephone Number	563
670 Spruce	. Street	North	705 - 20 Fax Number	64-3177
Timmins O	ntario	P4N 6P3	Client Number	
Idress			Telephone Number	·
			Fax Number	
. Type of work perfo	ormed: Check (\sim) and report on only ON		oups for this declaration.
Geotechnical: pros	specting, surveys, under section 18 (drilling, stripping, and associated assa	
	d Drilling ted assault		Commodity	Office Use
assocrat	ed assaugh	ng. S	Total \$ Value Work Claimed	\$31,896
Di	ay Month 97	To 30 11 9 Day Month Yes		e
lobal Positioning System Data	a (if available)	wnship/Area MASSEY or G-Plan Number,	Mining Division Resident Geol	
)		M296	District	(minin)
-	complete and att	ermit from the Ministry of N otice to surface rights hole tach a Statement of Costs howing contiguous mining	, form 0212; lands that are linked	
	include two copie	es of your technical report		
-				
- - 3. Person or compa	nies who prepar	ed the technical report	(Attach a list if neces	sary) Per 0 - SAIL
- - 8. Person or compa	nies who prepar	ed the technical report	(Attach a list if neces	sary) 68-5416 BECEIVED
ame LOUBEL Exp God West Moun	nies who prepar	ed the technical report	(Attach a list if neces	RECEIVED
a. Person or company lame 204BEL Exp dodress 67 West Mourn Name	nies who prepar	ed the technical report	(Attach a list if neces	BECEIVED JAN 19 1993
address	nies who prepar	ed the technical report	(Attach a list if neces Telephone Numb Tolephone Number N 4N6 Telephone Num Fax Number Telephone Num	BECEIVED JAN 191993 GEOSCIENCE ASSESSMEN
a. Person or company lame LOUBEL Exp Nodress 67 West Mourn Name	nies who prepar	ed the technical report	(Attach a list if neces Telephone Numb Tolephone Number Telephone Num Fax Number Telephone Num Fax Number Telephone Num Fax Number PROVINCI	BECEIVED JAN 19 1993 GEOSCIENCE ASSESSMEN OFFICE
ame Loubel Exp Nodress Address Name Address	nies who prepar ploration I J Blud Tin	ed the technical report Inc. (Chris Dup mins, Ort P4	(Attach a list if neces Telephone Numb Tolephone Number Telephone Num Fax Number Telephone Num Fax Number Telephone Num Fax Number PROVINCI	AL RECORDING SUDEURY E I V E D 1 9 1998
Address Address Address Address Address	nies who prepar ploration I J Blud Tin	r or Agent	(Attach a list if neces Telephone Numb To 5-2 Fax Number N 4N6 Telephone Num Fax Number Telephone Num Fax Number PROVINCI OFFICI R E C JAM A.M. 718191101	AL RECORDING SUDEURY SEIVED 1993 GEOSCIENCE ASSESSMEN OFFICE 1 9 1998 7.00 N/DEM. 11211213141519
Address Address Address Address Address Address Address Address Address Address Address Address Address	nies who prepar ploration I J Blud Tin Recorded Holder	r or Agent, do hereby c	(Attach a list if neces Telephone Numb Tolephone Number Telephone Number Telephone Number Telephone Number Telephone Number PROVINCI OFFICI R E C JAM A.M. 71§191001 certify that I have pers	AL RECORDING E I V E D 1393 1121121314516 Sonal knowledge of the facts
3. Person or compar- Name LOUBEL Exp Address Address Address Address Address 1. Certification by F 1. Chrvs E	nies who prepara ploration I J Blud Tim Recorded Holder	r or Agent, do hereby c	(Attach a list if neces Telephone Numb Telephone Number N 4N6 Fax Number Telephone Num Fax Number Telephone Num Fax Number REC JAM A.M. 7181911011 certify that I have pers work to be performed	AL RECORDING E I V E D 1393 1121121314516 Sonal knowledge of the facts
3. Person or compar- Name Address Address Name Address Address 4. Certification by F 1,	nies who prepar ploration I t Blvd Tim Blvd Tim Recorded Holder (Print Name) on of Assessment n and, to the best	r or Agent work having caused the t of my knowledge, the an	(Attach a list if neces Telephone Numb Tolephone Number N 4N6 Telephone Num Fax Number Telephone Num Fax Number Telephone Num Fax Number PROVINC OFFICE R E C JAM A.M. 71819100 certify that I have pers work to be performed inexed eport is true.	AL RECORDING SUDEURY SEIVED 1393 GEOSCIENCE ASSESSMEN OFFICE 1393 AL RECORDING SUDEURY EIVED 13938 1.00 N/Dem. 1121121314516 Sonal knowledge of the facts 1 or witnessed the same duri

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inin Inin Ium	g Claim Number, Or If as done on other eligible j land, show in this i the location number led on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of un to be distributed at a future date
	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
	1234587	12	0	\$24,000	0	0
	1234568	2	\$ 8,892	\$ 4,000	0	\$4.42
	1182726	4	31896	10771	5386	15739
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	Column Totals		31,896	16,157	5386	15,829
	CHRIS DU	PONT	, do h	ereby certify that I	he above work cred	its are eligible und
e	tion 7 (1) of the Assessi	ment Work Regulation				
e	the work was done.					
tu	e of Recorded Holder of Agent		Date	Januar	1 02/98	
	- Uma Dup			Juniar	<u>1 02/98</u>	
Ir	structions for cutting	back credits that a	re not approved.			· \
e	of the credits claimed in the deletion of credits 1. Credits are	this declaration may	y be cut back. Plea	se check (1) in th	e boxes below to shi	ow how wowish
iti	te the deletion of credits	:		••		

4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

GEOS Note: If you have not indicated how your credits are to be deleted, credits will be cut back from followed by option number 2 if necessary. n first,

0241 (03/87)	Approved for Recording by Mining	Recorder (Signature)
	Date Approved	Total Value of Credit Approved
Received Stamp	Deemed Approved Date	Date Notification Sent
For Office Use Only		

JAN 22 '98 08:01

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7052685416 PAGE.02 and appendix or as follows (describe):

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Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only		
Received Stamp		
•	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Record	rder (Signature)



Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

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ransaction Number (office use)

ور دا متعلق Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

		10 0 7 8	
Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilo- metres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
) iamond Drillerp	964 A O Diamond		31,896
(Drilling 1Km of road		
	brushedout, 160 Samples	······································	
	Core logging core splitting		
	report writing		
	I U		
	_	······································	
ssociated Costs (e.g. suppli	es, mobilization and demobilization).		
Tran	sportation Costs		
Foo	d and Lodging Costs		
	Total Value of	Assessment Work	31,896

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work. 2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total
- Value of Assessment Work. If this situation applies to your claims, use the calculation below: Total # alua of worked claimed ~ - ~

TOTAL VALUE OF ASSESSMENT WORK	× 0.50 =	lotal \$ value of worked claimed.

 Note: Work older than 5 years is not eligible for credit. A recorded holder may be required to verify expenditures claimed in this statement of request for verification and/or correction/clarification. If verification and/or correction/clarification. If verification and/or correction/clarification. 	contention is not made, the JAN 9 1998
Certification verifying costs:	GEOSCIENCE ASSESSMENT OFFICE

(please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Elevent for LOUBEL Export 101 I am authorized (record holder agent,)r state company position with signing authority)

to make this certification.

Date , AQ 1175

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

March 27, 1998

JOHN RAYMOND BOISSONEAULT 670 SPRUCE STREET NORTH TIMMINS, ONTARIO P4N-6P3



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (705) 670-5881

Dear Sir or Madam:

Submission Number: 2.18075

		Status
Subject: Transaction Number(s):	W9860.00036	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

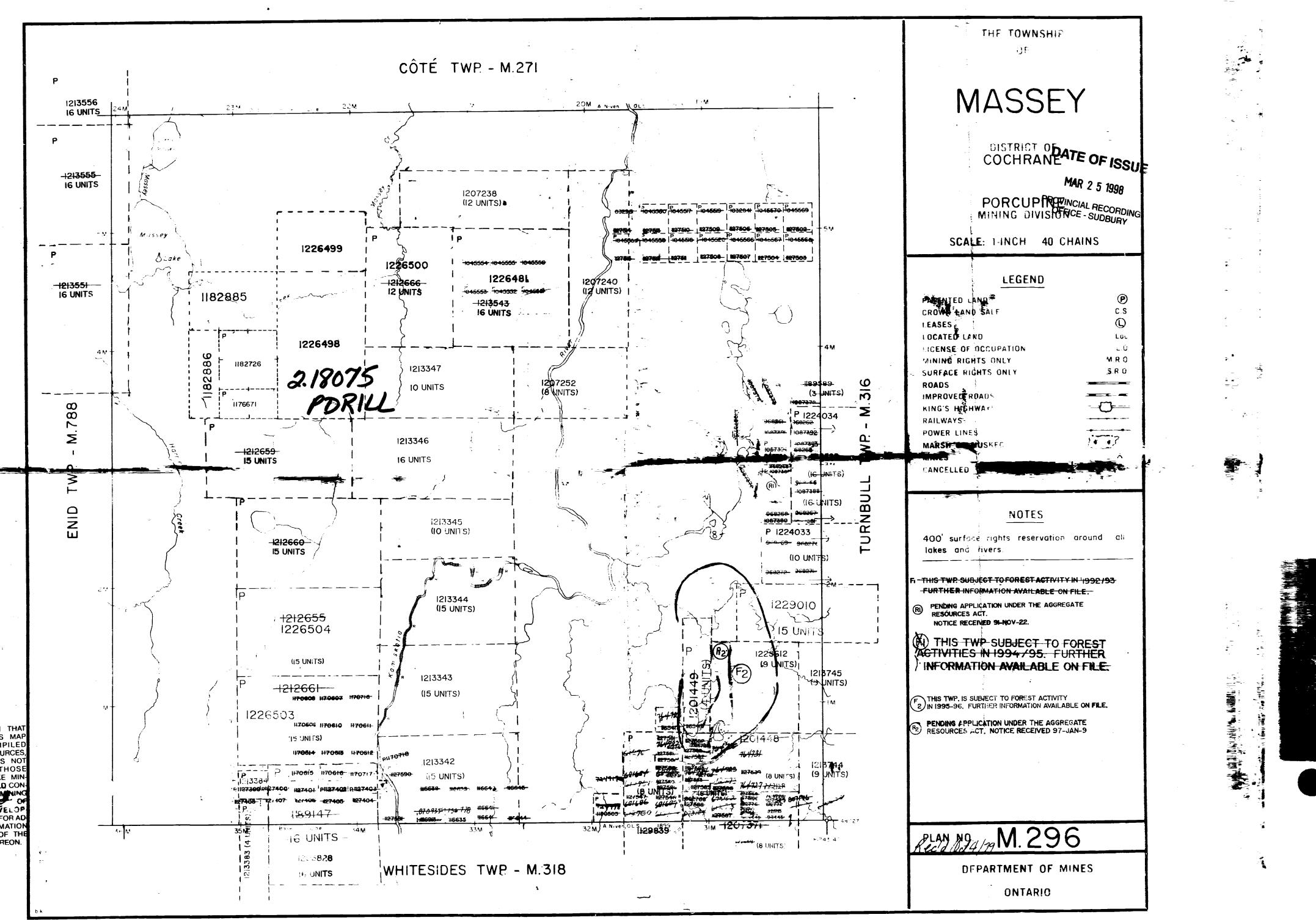
Yours sincerely,

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ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

Work Report Assessment Results

Submission Num Date Correspond	lence Sent: March 2	7, 1998	Assessor:Lucille Jero	ome
General Commer				
In all future submi	isssions, please prov	ide a detailed breakdown of your cos	ts.	
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9860.00036	1182726	MASSEY	Deemed Approval	March 25, 1998
Section: 16 Drilling PDRILL	L			
Correspondence	e to:		Recorded Holder(s)) and/or Agent(s):
Resident Geologis	st		Chris Dupont	
South Porcupine,	ON		TIMMINS, ON, CAN	
Assessment Files	Library		JOHN RAYMOND	BOISSONEAULT
Sudbury, ON	•		TIMMINS, ONTARIO	0



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MIN-ING CLAIMS SHOULD CON-SULT WITH THE MINING RECORDER, MINISTOR NORTHERN DEVELOP MENT AND MINES FOR AD DITION AL INFORMATION ON THE STATUS OF THE LANSE SHOWN HEREON.

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