



52F04NE0332 20 BROOKS LAKE

010

Diamond Drilling

Area Brooks Lake

Report N^o 20

Work performed by: Frances Resources Ltd.

Claim N ^o	Hole N ^o	Footage	Date	Note
K 590290	8	46	Feb/83	(1) (3)
	9	406	Feb/83	(1) (3)
	13	566	Feb/83	(1) (3)
K 590624 365049	12	540	Feb/83	(1) (3)
K 590298	10	586	Feb/83	(1) (2) (3)
K 590296	11	1077	Feb/83	(1) (2) (3)
K 590294	14	656	Feb/83	(1) (2) (3)

Notes: (1) #57-83
(2) Drilling performed on Heronry Lk.
(3) O.M.E.P. Submittal: #OM83-3-C-27



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#57-83 FRANCES RESOURCES LTD.
Brooks LK.

Fill in on every page → Hole No. 8 Page No. 1

Drilling Company <i>LONGYEAR</i>		Collar Elevation <i>1106±</i>	Bearing of hole from true North <i>S10°E</i>	Total Footage <i>46' 80</i>	Dip of Hole at Collar <i>-45</i>	Location of hole in relation to a fixed point on the claim. <i>GRID 69+60 EAST 1+50 NORTH</i>	Map Reference No. <i>NTS. 52 F/4</i>	Claim No. <i>K 590290</i>
Date Hole Started <i>FEB. 9/83</i>	Date Completed <i>FEB. 10/83</i>	Date Logged <i>MAR. 19/83</i>	Logged by <i>R.M. BLAIS</i>		<i>32 Ft. -46</i>		Location (Twp., Lot, Con. or Lat. and Long.) <i>BROOKS LAKE SHEET M. - 2473</i>	
Exploration Co., Owner or Optionee <i>MARTIN OPTION BARRIER REEF RESOURCES</i>		Date Submitted <i>MAY 9, 1983</i>	Submitted by (Signature) <i>R.M. Blais</i>		Ft.			
							Property Name <i>MARTIN PROPERTY</i>	

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †
From	To						From	To			
<i>0</i>	<i>35</i>		<i>CASING</i>								
<i>35</i>	<i>36</i>		<i>LOST 1' CORE</i>								
<i>36</i>	<i>46</i>		<i>MED. GREY, MED. HARD, MED-COARSE STRETCHED CHLORITIC FRAGS, MED.-HEAVY SERICITE BANDING</i>	<i>45°</i>		<i>88219</i>	<i>36</i>	<i>41</i>	<i>5</i>	<i>35</i>	
		<i>Int. lapilli Tuff</i>	<i>1 CM IN WIDTH - BEIGE IN COLOR. FOLIATION 45° TO CORE AXIS, SILICEOUS MATRIX WITH BLACK MINERAL DISSEM. THRU SECTION. SALT + PEPPER EFFECT O.P.P.?</i>			<i>88220</i>	<i>41</i>	<i>46</i>	<i>5</i>	<i>40</i>	
			<i>PY DISSEM. AND HEAVY PY BANDING 15-20% PY.</i>								
			<i>HOLE ABANDONED DUE TO THIN ICE CONDITIONS</i>								
			<i>END OF HOLE 46'</i>								



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Hole No. **9** Page No. **1**

Drilling Company LONGYEAR		Collar Elevation 1109.0	Bearing of hole from true North N10°W	Total Footage 406' BQ	Dip of Hole at Collar -56	Location of hole in relation to a fixed point on the claim. GRID 69+42 EAST. 0+98 NORTH	Map Reference No. NTS 52 F/4	Claim No. K590290
Date Hole Started FEB. 11/83	Date Completed FEB. 12/83	Date Logged FEB. 15/83	Logged by R.M. BLAIS		200 Ft. -47		Location (Twp., Lot, Con. or Lat. and Long.) BROOKS LAKE SHEET M. - 2473	Property Name MARTIN PROPERTY
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES		Date Submitted MAY 9, 1983	Submitted by (Signature) R.M. Blais		390 Ft. -41			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Plinar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Assays †
From	To						From	To		
0	10		CASING							
9.0	17.8	FELSIC LAPILLI TUFF	GREY, FINE GRAINED TEXTURE, FOLIATION NOT PRONOUNCED, BEIGE SERICITE BANDS // TO FOLIATION 30° TO CORE AXIS, SMALL LIGHT AND DARK GREEN FRAGMENTALS (50-50), SECTION VERY SILICEOUS, HARD BROKEN CORE WITH WHITE QTZ.-CARB STRINGER @ 11.5-11.9 DISSEM. PY 1% OR LESS THRU SECTION	30°		85264	9	17.8	8.8	65
17.8	18.8	DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT TO MED. HARD, 2 - QTZ.-CARB. WHITE STRINGERS @ 17.6 & 18.1 17.6 COULD BE LARGE QTZ.-CARB FRAG. FOLIATION TO CORE AXIS 20°			85265	17.8	18.8	1.0	5
18.8	20.5	FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8 19.2 - 19.5 WHITE QTZ.-CARB STRINGER			85266	18.8	20.5	1.7	40
20.5	22.5	DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT-MED. HARD QTZ.-CARB. STRINGERS AT VARIOUS ANGLES TO CORE AXIS - 40°			85267	20.5	22.5	2.0	5
22.5	23.3	FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8			85268	22.5	23.3	1.2	25



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Fl.			
					Fl.		Property Name	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PDB AU	Assays †
From	To						From	To			
23.3	24.5	DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT - MED. HARD QTL. - CARB. STRINGERS, STRINGER @ 24.5 (0.30 WIDE) 35° TO CORE AXIS			85269	23.3	24.5	1.2	5	
24.5	27.3	FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8			85270	24.5	27.3	2.8	15	
27.3	30.5	DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT - MED. HARD QTL. - CARB. STRINGER 20° TO CORE AXIS			85271	27.3	30.5	3.2	5	
30.5	33.0	FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8 COLOR CHANGING TO LT. GREY, MORE LT. FRAGS (60% OF SECTION), SILICEOUS, MINOR QTL. - CARB. STRINGERS PY INCREASE 1-5%			85272	30.5	33.0	2.5	20	
33.0	36.0	DIKE	GREENISH, FINE GRAINED (DIKE), VERY SMALL DARK CHLORITIC MINERAL INCREASE, BECOMING MORE SILICEOUS TOWARD 36.0, MINOR QTL. - CARB. STRINGERS.			85273	33.0	36.0	3.0	5	
36.0	38.8	FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8 DISSEM. PY 1%			85274	36.0	38.8	2.8	25	
38.8	42.4	DIKE	DIKE - DESCRIBED. DESCRIBED BAND 9.0 - 17.8 IN THIS SECTION 40 - 40.3			85275	38.8	42.4	3.6	5	
42.4	45.2	FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8			85276	42.4	45.2	2.8	30	



Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole-Started	Date Completed	Date Logged	Logged by	FL	Location (Twp., Lot, Con. or Lat. and Long.)			
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	FL				
				FL				
						Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †
From	To						From	To			
45.2	46.8	DIKE	GREENISH, FINE GRAINED (DIKE), QTZ - CARB. FRAGS. 90° TO CORE AXIS.			85277	45.2	46.8	1.6	5	
46.8	48.5	FELSIC LAPILLI TUFF	GREY, FINE GRAINED TEXTURE, SILICEOUS, FOLIATION NOT PRONOUNCED, FAINT BANDS OF BEIGE SERICITE SMALL LT. FRAGS 0.05 mm OR LESS, SOME DARK FRAGS. DISSEM. PY. 1-5%			85278	46.8	48.5	1.7	20	
48.5	51.0	DIKE	GREENISH, FINE GRAINED (DIKE), LITTLE COARSER, QTZ - CARB STRINGERS 1 cm, 90°-75° TO CORE AXIS, MED. HARD.			85279	48.5	51.0	2.5	5	
51.0	56.4	FELSIC TUFF + LAPILLI TUFF	GREY, FINE GRAINED TEXTURE, SILICEOUS, FOLIATION NOT PRONOUNCED, BANDS OF BEIGE SERICITE 45°-50° TO CORE AXIS DISSEM. PY 1-2%	50°		85280	51.0	56.4	5.4	50	
56.4	59.0	DIKE	GREENISH, FINE GRAINED TEXTURE (DIKE) FRAG. .005 mm CHLORITIC COLORED FRAGS. IN MATRIX, MED. HARD, QTZ - CARB STRINGERS (2 - 0.04 WIDE) 85° TO CORE AXIS								
59.0	60.0	FELSIC TUFF	GREY, HARD, BECOMING SILICEOUS, QTZ - CARB. STRINGER 85° TO CORE AXIS AT CONTACT 59.0-59.1 - BAND OF .005 mm DARK FRAGS. PY 5%+			85281	56.4	60.0	3.6	5	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays ‡
From	To						From	To			
98.4	107.4	FELSIC TUFF	GREY, FINE GRAINED TEXTURE, MED. HARD, SILICEOUS FOLIATION NOT PRONOUNCED PY 5-15% DISSEM. WITH CONCENTRATIONS @ 107.0-107.4 BANDS PY // TO FOLIATION 50° TO CORE AXIS.			85203	100	105	5	30	
						85204	105	110	5	90	
107.4	137.8	FELSIC LAPILLI TUFF	GREY, MED. HARD, FRAGMENTAL, LT. COLORED STRENGTHENED FRAGS (CARBONATE) 1mm-3mm // TO CORE AXIS. LESS THAN 20% DARK CHLORITIC FRAGS, FOLIATION 40° TO CORE AXIS. SHISTOSITY INCREASING 128.3-132.0 MINOR QTZ-CARB STRINGERS, CORE BROKEN 128.3-132.0 PY DISSEM 1% P.S.S. 128'-132' PY INCREASE 124.0-137.8	40°		85205	110	115	5	35	
						85206	115	120	5	25	
						85207	120	125	5	20	
						85208	125	130	5	50	
						85209	130	135	5	25	
						85210	135	140	5	20	
137.8	143.0	FELSIC LAPILLI TUFF	GREY, (DARKER THAN PREVIOUS SECTION), FINE GRAINED, 1mm LIGHT FRAGS IN GREY MATRIX (PORPHYRITIC) MINOR QTZ-CARB STRINGERS PY DECREASE PY BAND @ 138.5 75° TO CORE AXIS.			85211	140	145	5	20	
143.0	157.0	FELSIC LAPILLI TUFF	GREY, FRAGMENTAL, MED. HARD, FOLIATION 70° TO CORE AXIS, SERICITE BANDS // TO FOLIATION, FOLIATION INCREASING, BLACK PUNKY MINERAL (COAL LIKE) ASSOCIATED WITH QTZ-CARB. FRAGS // TO CORE AXIS PY 1-5%	70°		85212	145	150	5	45	
						85213	150	155	5	40	



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Hole No. 9 Page No. 7

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.				
					Ft.			Property Name	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †
From	To						From	To			
176.0	237.0	Q.S.S. (Q.F.P.)	196.7 - 222.0 CORE BECOMING MORE SILICEOUS, GREY QTZ, SERICITE BANDING AND PYRITE BANDING // TO FOLIATION OF CORE AXIS 70°-75°			85222	195	200	5	105	
			BLACK MINERAL DEGRADING ABOUT 198.5.			85223	200	205	5	1500	
			GREY QTZ. IS // TO CORE AXIS ALSO AS BLEBS UP TO 1 cm IN SIZE. ODD BLEB OF QTZ. CARB. FRAGS. PY INCREASE 20-30%, PY SURROUNDS QTZ. BLEBS	70°		85224	205	210	5	1700	
			202.5 - SERICITE BANDING WITH MARIPOSITE?			85225	210	215	5	3600	
			199.5 - 197± DIKE?			85226	215	220	5	975	
			222.0 - 237.0 - GREY, LESS GREY QTZ., COLOR DARKER DUE TO INCREASE OF CHLORITE.	70°		85227	220	225	5	325	
			FOLIATION 70° TO CORE AXIS, SERICITE BANDING VERY FINE			85228	225	230	5	90	
			226.0 - 227.0 SWIRLY DARK MINERAL (COARSE SALT + PEPPER) Q.F.P. QTZ.-CARB. TRACHY APPEARANCE DISSEM. + BANDS PY 15-20%			85229	230	235	5	30	
237.0	255.0	Q.S.S.	DESCRIBED 222.0 - 237.0 FRAGS INCREASE, LESS SILICEOUS, FOLIATION LESS PRONOUNCED			85230	235	240	5	35	
			PY. DEGRADING 5-10%			85231	240	245	5	65	
						85232	245	250	5	20	
						85233	250	255	5	25	



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Hole No. 9 Page No. 8

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.	Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.	Ft.		Property Name	
				Ft.	Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb Au	Assays ‡
From	To						From	To			
255.0	354.4	INT. - FELSIC TUFF + LAPILLI TUFF	MED. GREY, FRAGMENTAL, FOLIATION 70° TO CORE AXIS, MED. HARD, FAIRLY SILICEOUS (GREY IN COLOR) LT. FRAGS STRETCHED // TO CORE AXIS 1-2 mm UP TO 5 cm LONG, CHLORITIC FRAGS 1mm-3mm SERICITE BANDS VERY THIN 0.05 mm WIDE DISSEM. PY 1-2%	70°		85234	255	260	5	15	
						85235	260	265	5	10	
						85236	265	270	5	20	
						85237	270	275	5	25	
						85238	275	280	5	5	
						85239	280	285	5	10	
						85240	285	290	5	55	
						85241	290	295	5	15	
						85242	295	300	5	25	
						85243	300	305	5	15	
						85244	305	310	5	5	
						85245	310	315	5	30	
						85246	315	320	5	75	
						85247	320	325	5	5	
						85248	325	330	5	5	
						85249	330	335	5	5	
						85250	335	340	5	5	
						85251	340	345	5	5	
						85252	345	350	5	5	
						85253	350	355	5	30	
354.4	372.0	FELSIC TUFF + LAPILLI TUFF	GREY (LIGHT), FINE GRAINED, FOLIATION NOT PRONOUNCED, MED. HARD, SILICEOUS, MINOR QTZ-CARB. STRINGERS 90° TO CORE AXIS 366.1 - 366.2 QTZ-CARB FRAGS DISSEM. PY 1%			85254	355	360	5	5	
						85255	360	365	5	25	
						85256	365	370	5	5	
						85257	370	375	5	5	



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Heronry Lk. (Brooks #57)

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Drilling Company <i>LONGYEAR</i>		Collar Elevation <i>1107.7</i>	Bearing of hole from true North <i>N10°W</i>	Total Footage <i>586' BQ</i>	Dip of Hole at Collar <i>-45</i>	Location of hole in relation to a fixed point on the claim. <i>GRID 16+50 EAST 2+32 NORTH.</i>	Map Reference No. <i>NTS 52F/4</i>	Claim No. <i>K590298</i>	
Date Hole Started <i>FEB. 13/83</i>	Date Completed <i>MAR. 6/83</i>	Date Logged <i>MAR. 8/83 FEB. 22/83</i>	Logged by <i>RM BLAIS</i>		<i>40 Ft. -44</i>		Location (Twp., Lot, Con. or Lat. and Long.) <i>HERONRY LAKE M.-2475</i>	Property Name <i>MARTIN PROPERTY.</i>	
Exploration Co., Owner or Optionee <i>MARTIN OPTION BARRIER REEF RESOURCES</i>		Date Submitted <i>MAY 9, 1983</i>	Submitted by (Signature) <i>RM Blais</i>		<i>200 Ft. -47</i>				
					<i>400 Ft. -46</i>				
					<i>566 Ft. -39</i>				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPB	Assays ‡
From	To						From	To			
<i>0</i>	<i>7</i>		<i>CASING</i>							<i>All</i>	
<i>7.0</i>	<i>8.0</i>	<i>INT. TUFF + LAPILLI TUFF</i>	<i>GREY (BLUE), FINE FRAGMENTAL, FOLIATION NOT PRONOUNCED, CORE BREAKING 60° TO CORE AXIS. SERICITE ON SLIPS, 60° MED. HARD, QTZ.-CARB. FRAGS. 5% OF CORE PY 1-2%</i>								
<i>8.0</i>	<i>9.4</i>	<i>INT. TUFF</i>	<i>GREY, FINE GRAINED, BECOMING HARD, SILICEOUS, SERICITE BANDING, CARBONATE IN CORE DISSEM PY INCREASE 1-5%</i>			<i>85289</i>	<i>7</i>	<i>10</i>	<i>3</i>	<i>170</i>	
<i>9.4</i>	<i>56.0</i>	<i>INT. TUFF + LAPILLI TUFF</i>	<i>DESCRIBED 7.0 - 8.0 MED. HARD, FRAGMENTALS INCREASING IN SIZE FROM FINE TO MED. SECTIONS WITH TRACHY APPEARANCE, QTZ.-CARB. STRINGERS INCREASE (HAVE PURPLISH HUE), FOLIATION NOT PRONOUNCED. DISSEM PY INCREASE @ 36.0 (CONTACT WITH TRACHY SECTION) - DESCRIBED 7.0 - 8.0 @ 56.0 PY IN 1mm BLEBS PY 3-6%</i>			<i>85290</i>	<i>10</i>	<i>15</i>	<i>5</i>	<i>100</i>	
						<i>85291</i>	<i>15</i>	<i>20</i>	<i>5</i>	<i>5</i>	
						<i>85292</i>	<i>20</i>	<i>25</i>	<i>5</i>	<i>125</i>	
						<i>85293</i>	<i>25</i>	<i>30</i>	<i>5</i>	<i>25</i>	
						<i>85294</i>	<i>30</i>	<i>35</i>	<i>5</i>	<i>25</i>	
						<i>85295</i>	<i>35</i>	<i>40</i>	<i>5</i>	<i>50</i>	
						<i>85296</i>	<i>40</i>	<i>45</i>	<i>5</i>	<i>125</i>	
						<i>85297</i>	<i>45</i>	<i>50</i>	<i>5</i>	<i>100</i>	
						<i>85298</i>	<i>50</i>	<i>55</i>	<i>5</i>	<i>65</i>	
<i>56.0</i>	<i>82.5</i>	<i>FELSIC LAPILLI TUFF</i>	<i>GREY (NOT AS BLuish-GREEN), HARD, FINE-MED FRAGMENTAL, BECOMING SILICEOUS, GREY QTZ.-CARB. INCREASING 20% OF CORE, SERICITE BANDING INCREASE WITH FOLIATION 60° TO CORE AXIS. PY AND QTZ.-CARB INCREASE PY. 5-10% PY CONCENTRATIONS 56.0-66.0 (10-15%) @ 57.0 SLIP SHOWS RED-BROWN OXIDATION WITH HEAVY PY. ALSO OCCURS @ 72.0 - 72.0 ± 77.7-78.5 .005 mm - .01 mm FRAGS 30% CORE IN CHLORITIC COLORED MATRIX.</i>			<i>85299</i>	<i>55</i>	<i>60</i>	<i>5</i>	<i>135</i>	
						<i>85300</i>	<i>60</i>	<i>65</i>	<i>5</i>	<i>110</i>	
						<i>85301</i>	<i>65</i>	<i>70</i>	<i>5</i>	<i>60</i>	
						<i>85302</i>	<i>70</i>	<i>75</i>	<i>5</i>	<i>225</i>	
						<i>85303</i>	<i>75</i>	<i>80</i>	<i>5</i>	<i>95</i>	
						<i>85304</i>	<i>80</i>	<i>85</i>	<i>5</i>	<i>30</i>	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays ‡
From	To						From	To			
82.5	150.0	INT. LAPILLI TUFF	GREY (GREENISH HUE), HARD, MED.-COARSE STRETCHED FRAGS. NUMEROUS BANDS PURPLISH QTZ.-CARB. BANDS 1cm - 5cm WIDE, HARD // TO FOLIATION 50° TO CORE AXIS. PURPLISH BANDS SURROUNDED WITH COARSE CHLORITIC COLORED FRAGS. DISSEM. PY 1-4% PY INCREASE AROUND PURPLISH BANDS 5-10% Q.F.P. (SALT + PEPPER) 135.0 - 150.0 PY INCREASE 5-8%			85305	85	90	5	160	
						85306	90	95	5	25	
				50°		85307	95	100	5	290	
						85308	100	105	5	130	
						85309	105	110	5	5	
						85310	110	115	5	70	
						85311	115	120	5	25	
						85312	120	125	5	40	
						85313	125	130	5	15	
150.0	185.0	Q.S.S. (Q.F.P.)	GREY (LIGHT), FINE GRAINED, MED. HARD, FOLIATED 65° TO CORE AXIS. BEIGE SERICITE BANDING INCREASE VERY SCHISTY. PY DISSEM. 1-2% PY INCREASE. WERE GREY QTZ.-CARB INCREASES.			85314	130	135	5	65	
				65°		85315	135	140	5	155	
						85316	140	145	5	135	
						85317	145	150	5	795	
						85318	150	155	5	40	
						85319	155	160	5	35	
						85320	160	165	5	25	
						85321	165	170	5	30	
185.0	230.5	INT. LAPILLI TUFF	GREY, FINE GRAINED, MED. HARD, STRETCHED CHLORITIC FRAGS (.005mm - .01mm) 10-15% OF CORE // TO FOLIATION 60° TO CORE AXIS DISSEM PY 1-2% SOME LOCAL BANDING			85322	170	175	5	85	
				60°		85323	175	180	5	15	
						85324	180	185	5	45	
						85325	185	190	5	20	
						85326	190	195	5	15	
						85327	195	200	5	5	
						85328	200	205	5	10	
						85329	205	210	5	15	
						85330	210	215	5	25	
						85331	215	220	5	110	
						85332	220	225	5	25	
						85333	225	230	5	5	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.				
					Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb Au	Assays †
From	To						From	To			
230.5	286.0	INT. LAPILLI TUFF	DESCRIBED 82.5 - 150.0	60°		85334	230	235	5	85	
						85335	235	240	5	150	
			INCREASE IN SERICITE BANDING 244.0 - 246.0			85336	240	245	5	20	
						85337	245	250	5	115	
			PY INCREASE 1-5%			85338	250	255	5	70	
						85339	255	260	5	250	
						85340	260	265	5	20	
						85341	265	270	5	125	
						85342	270	275	5	30	
						85343	275	280	5	35	
						85344	280	285	5	20	
						85345	285	290	5	5	
286.0	361.0	FELSIC TUFF + LAPILLI TUFF	GREY, FINE GRAINED, HARD, SILICEOUS, SOME CARBONATE PRESENT IN CORE, FOLIATION NOT PRONOUNCED, SERICITE BANDING INCREASING - Q.S.S.			85346	290	295	5	45	
						85347	295	300	5	265	
						85348	300	305	5	185	
						85349	305	310	5	205	
			PY INCREASING 5-10%			85350	310	315	5	40	
			317.0 - 320.0 PY BANDING 10-15%			85351	315	320	5	15	
			330.0 - 332.0 PY BANDING 10-15%			85352	320	325	5	65	
			356.0 PY 10-15%			85353	325	330	5	150	
						85354	330	335	5	790	
						85355	335	340	5	95	
						85356	340	345	5	275	
						85357	345	350	5	80	
						85358	350	355	5	135	
						85359	355	360	5	80	
						85360	360	365	5	65	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.		Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †
From	To						From	To			
361.0	406.0	Q.S.S.	GREY (LIGHT), HARD, SILICEOUS, SERICITE BANDING INCREASING, VERY SCHISTY, FINE FRAGMENTAL, FOLIATION 45° TO CORE AXIS	45°		85361	365	370	5	130	
						85362	370	375	5	350	
						85363	375	380	5	420	
						85364	380	385	5	835	
			PY INCREASE DISSEM. 5-10%			85365	385	390	5	90	
						85366	390	395	5	115	
						85367	395	400	5	125	
						85368	400	406	6	200	
			HOLE DEEPEMED.								
406.0	439.7	FELSIC TUFF + LAPILLI TUFF	GREY (MED.), FINE GRAINED, MED. HARD, MINOR SERICITE BANDING 45° TO CORE AXIS, SOME VERY SMALL FRAGS.	45°		88182	406	410	4	55	
						88184	410	415	5	50	
			PY 406.0 - 436.0 DISSEM. 1-2%			88185	415	420	5	20	
			406.0 - 426.0 PY BANDING 1-5%+			88186	420	425	5	5	
						88187	425	430	5	60	
						88188	430	435	5	25	
						88189	435	440	5	5	
439.7	461.0	FELSIC TUFF + LAPILLI TUFF	GREY (MED.), MED. HARD, MED. FRAGS, LT. COLOURED. FRAGS INCREASING 15-20% OF CORE WITH INTERMEDIATE MATRIX			88190	440	445	5	20	
						88191	445	450	5	5	
			PY VERY MINOR 1% OR LESS			88192	450	455	5	5	
						88193	455	460	5	175	
						88194	460	465	5	85	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.	Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.	Ft.			
				Ft.	Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	P.P.O. AL	Assays †
From	To						From	To			
461.0	464.0	Q.S.S.	LIGHT GREY, FINE GRAINED, SERICITE BANDING INCREASE - SCHISTY								
464.0	475.0	FELSIC TUFF + LAPILLI TUFF	DESCRIBED 439.7-461.0 PY INCREASE 5-10%+			88195	465	470	5	130	
						88196	470	475	5	625	
						88197	475	480	5	5	
475.0	513.0	Q.S.S. (Q.F.P.)	WHITISH-GREY (RHYOLITE), HARD, SILICEOUS, SERICITE BANDING HEAVY 45° TO CORE AXIS 476.0 - 496.0 Q.F.P. (SALT+PEPPER) PY 15-20% 501.0 - 513.0 Q.F.P.	45°		88198	480	485	5	15	
						88199	485	490	5	20	
						88200	490	495	5	20	
						88201	495	500	5	15	
						88202	500	505	5	30	
						88203	505	510	5	5	
						88204	510	515	5	5	
513.0	571.0	FELSIC LAPILLI TUFF	GREY, LT. FRAGS, DARK MATRIX, FRAGS STRETCHED // TO CORE AXIS 50° PY 1-2% DISSEM.	50°		88205	515	520	5	5	
						88206	520	525	5	5	
						88207	525	530	5	5	
						88208	530	535	5	5	
						88209	535	540	5	5	
						88210	540	545	5	95	
						88211	545	550	5	5	
						88212	550	555	5	5	
						88213	555	560	5	20	
						88214	560	565	5	15	
						88215	565	570	5	5	
						88216	570	575	5	5	



Drilling Company LONGYEAR		Collar Elevation 1111.7	Bearing of hole from true North S10°E	Total Footage 1077'80	Dip of Hole at Collar -45	Location of hole in relation to a fixed point on the claim: GRID 28+86 EAST. 6+19 NORTH	Map Reference No. NTS 52F/4	Claim No. K590296
Date Hole Started FEB. 14/83	Date Completed FEB. 17/83	Date Logged FEB. 24/83	Logged by R.M. BLAIS		350 Ft. -47		Location (Twp., Lot, Con. or Lat. and Long.) HERONRY LAKE M. 2475	
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted MAY 9, 1983	Submitted by (Signature) R.M. Blais		707 Ft. -46			
					900 Ft. -44			
					1067 Ft. -52	Property Name MARTIN PROPERTY		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡
From	To						From	To		
0	10		CASING - LEFT IN HOLE - AD CEMENT PLUG							
10.0	42.7	INT. LAPILLI TUFF	GREENISH GREY, FOLIATED 65° TO CORE AXIS, MED. HARD, BANDED SERICITE, ALTERNATE LT. AND DARK BANDING, DARK BANDS 50-60% OF CORE (STRETCHED FRAGS?), SMALL DARK FRAGS 1mm OR LESS, STRETCHED // TO CORE AXIS. FRAGS INCREASE NEAR END OF SECTION. SERICITE BANDING ALSO INCREASES DISSEM PY 1-2%	65°						
42.7	67.7	INT. LAPILLI TUFF (PORPHYRITIC)	MED. GREY, HARD, FOLIATED 60° TO CORE AXIS, SMALL STRETCHED FRAGS (LIGHT) (PORPHYRITIC TEXTURE) HEAVY SERICITE BAND 48.0 - 49.0 - P.S.S. 3cm QTZ-CARB FRAG SCHISTY DISSEM PY 1%	60°						
67.7	78.0	INT. LAPILLI TUFF (PORPHYRITIC)	GREY (LIGHTER 42.7-67.7) TIGHT SERICITE BANDING // TO FOLIATION 60° TO CORE AXIS, SILICEOUS, FAINT PORPHYRITIC TEXTURE, SAME AS 42.7-67.7 SECTION MORE SCHISTOSE. HAS ODD 5mm TO 1cm QTZ-CARB FRAG SCATTERED THRU SECTION MINOR DISSEM PY.							
78.0	98.0	INT. TUFF + LAPILLI TUFF (PORPHYRITIC)	GREY, DESCRIBED 42.7-67.7 QTZ-CARB STRINGERS @ 88.0-88.5, 89.8-90.5 MORE MAFIC LOOKING THAN 10.0-42.7-67.7 SECTION 114.0-114.2 QTZ-CARB STRINGER 70° TO CORE AXIS, PURPLISH HUE TO STRINGER, HEAVY SERICITE BANDING ON EACH SIDE OF STRINGER							



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †
From	To						From	To			
224.7	267.0	INT. LAPILLI TUFF	GREY (GREENISH), MED. HARD SAME AS UNIT 98.0-223.4 BANDS IN WITH 2 cm - 6 cm OF SMALL STRETCHED CHLORITIC FRAGS. 0.005 mm // TO CORE AXIS 50°, FOLIATION NOT PRONOUNCED DISSEM PY 1-2% PY BANDING @ 260.0-262.0 263.0-264.0	50°		85439	225	230	5	5	
						85440	230	235	5	5	
						85441	235	240	MISSING		
						85442	240	245	MISSING		
						85443	245	250	5	5	
						85444	250	255	5	5	
						85445	255	260	5	5	
						85446	260	265	5	5	
						85447	265	270	5	5	
						85448	270	275	5	5	
267.0	299.0	INT. LAPILLI TUFF	DESCRIBED 98.0-223.4 BECOMING MORE SILICEOUS 277.0-299.0, CHANGING INTERMEDIATE-FELSIC NEAR END OF SECTION - CRITTY APPEARANCE ALSO Q.F.P. PY INCREASING 5-10%	45°		85449	275	280	5	5	
						85450	280	285	5	5	
						85451	285	290	5	5	
						85452	290	295	5	5	
						85453	295	300	5	5	
299.0	312.0	Q.S.S.	GREY-LIGHT GREY SERICITE BANDING BECOMING FELSIC (DACITE) VERY SILICEOUS DISSEM. PY 5-8%	45°		85454	300	305	5	5	
						85455	305	310	5	5	
						85023	310	315	5	5	
312.0	315.0	Q.S.S.	WHITISH GREY ALTERNATE BANDING OF SERICITE AND GREY QTZ. - Q.S.S.	45°		85024	315	320	5	5	
315.0	323.0	Q.S.S.	DESCRIBED 299.0-312.0 PY 5-8%	45°		85025	320	325	5	5	



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Hole No. // Page No. 4

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name		
				Ft.					

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Ppb. Au	Assays ‡
From	To						From	To			
323.0	347.0	Q.S.S.	DESCRIBED 312.0 - 315.0 Q.S.S. DISSEM PY 5-8%	50°		85026	325	330	5	5	
						85027	330	335	5	5	
						85028	335	340	5	5	
						85029	340	345	5	5	
347.0	445.0	Q.S.S.	DESCRIBED 315.0 - 323.0 394.0 ON TO END OF SECTION 104 DISSEM: PY 2-6%	50°		85030	345	350	5	5	
						85031	350	355	5	5	
						85032	355	360	5	5	
						85033	360	365	5	20	
						85034	365	370	5	5	
						85035	370	375	5	5	
						85036	375	380	5	5	
						85037	380	385	5	5	
						85038	385	390	5	10	
						85039	390	395	5	5	
						85040	395	400	5	40	
						* 85041	400	415	5	50	
						85042	415	420	5	50	
						85043	420	425	5	30	
						85044	425	430	5	25	
						85045	430	435	5	15	
						85046	435	440	5	30	
						85047	440	445	5	190	
445.0	470.0	INT. LAPILLI TUFF	DESCRIBED 267.0 - 299.0 NOTE Q.F.P.	45°		85048	445	450	5	40	
						85049	450	455	5	30	
						85050	455	460	5	25	
						85051	460	465	5	50	
						85052	465	470	5	25	



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Hole No. 11 Page No. 5

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPD. AU	Assays ‡
From	To						From	To			
470.0	475.0	FELSIC LAPILLI TUFF	LIGHT GREY, PORPHYRITIC, SILICEOUS, SERICITE BANDING, SOME CHLORITIC FRAGS.?			85053	470	475	5	435	
						85054	475	480	5	55	
						85055	480	485	5	100	
						85056	485	490	5	15	
475.0	485.5	INT. LAPILLI TUFF	DESCRIBED 445.0-470.0 PY 5-10%								
						85057	490	495	5	70	
485.5	681.5	FELSIC TUFF + LAPILLI TUFF	GREY, FOLIATED, MED FRAGMENTAL, FELSIC (DACITIC) CHANGING TO FINE FRAG OR TUFF, SERICITE BANDING, SMALL BANDS OF CROWNED COARSE MAFIC FRAGS. PY 1-5% DISSEM.			85058	495	500	5	25	
			568.8-572.0 WHITISH GREY Q.S.S.			85059	500	505	5	5	
			582.0-591.0 Q.S.S.			85060	505	510	5	30	
			605.0-628.0 MED. GREY, GRITTY LOOKING PY INCREASE 2-6%			85061	510	515	5	10	
			628.0-642.0 Q.S.S. PY 2-6%			85062	515	520	5	30	
			667.0-681.5 Q.S.S. SERICITE BANDING.			85063	520	525	5	25	
						85064	525	530	5	360	
						85065	530	535	5	5	
						85066	535	540	5	80	
						85067	540	545	5	40	
						85068	545	550	5	60	
						85069	550	555	5	70	
						85070	555	560	5	150	
						85071	560	565	5	35	
						85072	565	570	5	40	
						85073	570	575	5	170	
						85074	575	580	5	100	
						85075	580	585	5	30	
						85076	585	590	5		
						85077	590	595	5	315	
						85078	595	600	5	175	
						85079	600	605	5	55	
						85080	605	610	5	105	
						85081	610	615	5	85	
						85082	615	620	5	85	



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Hole No. 11 Page No. 5

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb	Assays †
From	To					Sample No.	From	To			
						85083	620	625	5	125	
						85084	625	630	5	125	
						85085	630	635	5	360	
						85086	635	640	5	320	
						85087	640	645	5	395	
						85088	645	650	5	75	
						85089	650	655	5	115	
						85090	655	660	5	280	
						85091	660	665	5	110	
						85092	665	670	5	40	
						85093	670	675	5	55	
						85094	675	680	5	55	
681.5	682.5	INT. LAPILLI TUFF	BAND INTERMEDIATE - MAFIC FRAGS.			85095	680	685	5	80	
						85096	685	690	5	105	
						85097	690	695	5	175	
682.5	702.0	FELSIC TUFF + LAPILLI TUFF	DESCRIBED 485.5 - 681.5			85098	695	700	5	230	
						85099	700	705	5	80	
702.0	787.0	FELSIC - INT. LAPILLI TUFF	MED. GRGY, BROKEN, MED. - COARSE FRAGMENTAL, FOLIATION 45° TO CORE AXIS PY 10-15%	45°		85100	705	710	5	185	
						85101	710	715	5	240	
						85102	715	720	5	140	
						85103	720	725	5	70	
			767.0 + BECOMING MAFIC.			85104	725	730	5	145	
						85105	730	735	5	185	
						85106	735	740	5	455	
						85107	740	745	5	150	
						85108	745	750	5	135	
						85109	750	755	5	100	
						85110	755	760	5	85	
						85111	760	765	5	55	
						85112	765	770	5	60	
						85113	770	775	5	105	
						85114	775	780	5	405	



Ontario

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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.				
					Ft.		Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	No. Assays ‡
From	To						From	To		
						85115	780	785	5	50
						85116	785	790	5	85
787.0	836.0	INT. LAPILLI TUFF	MED.-DARK GREY - CHANGING TO MED. GREY WITH DEFINITE LT. GREENISH HUE, APPLE GREEN COLOR APPEARS WITH BEIGE SERICITE, FOLIATION NOT PRONOUNCED, PATCHY MOTTLED LOOK DUE TO APPLE-GREEN COLOR.			85117	790	795	5	3200
						85118	795	800	5	200
						85119	800	805	5	300
						85120	805	810	5	50
						85121	810	815	5	5
						85122	815	820	5	150
						85123	820	825	5	60
						85124	825	830	5	140
						85125	830	835	5	715
836.0	1042.0	Q.S.S. (Q.F.P. REMAINING)	LT. GREY - MED. GREY, HEAVY SERICITE BANDING VERY SILICEOUS, HIGHLY BROKEN CORE, FOLIATION NOT EVIDENT. CORE RECOVERY 90% PY 15-20%			85126	835	840	5	350
						85127	840	845	5	90
						85128	845	850	5	5
						85129	850	855	5	215
						85130	855	860	5	180
			Q.F.P. @ 837.0, 855.0, 863.0, 880.0, 892.0 + 904.0			85131	860	865	5	230
			UNIT 787.0 - 836.0 SHOWS IN THIS SECTION CORE BROKEN AND POROUS @ 880.0			85132	865	870	5	60
						85133	870	875	5	75
						85134	875	880	5	70
						85135	880	885	5	35
						85136	885	890	5	85
			LOST CORE 965.0 - 967.0			85137	890	895	5	5
			969.0 - 976.0			85138	895	900	5	5
						85139	900	905	5	5
			SERICITE INCREASE 98% +			85140	905	910	5	5
						85141	910	915	5	5
						85142	915	920	5	5
						85143	920	925	5	15
						85144	925	930	5	30
						85145	930	935	5	5



Diamond Drilling Log

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Header section containing fields for Drilling Company, Collar Elevation, Bearing of hole from true North, Total Footage, Dip of Hole at Collar, Location of hole in relation to a fixed point on the claim, Map Reference No., Claim No., Date Hole Started, Date Completed, Date Logged, Logged by, Date Submitted, Submitted by (Signature), Exploration Co., Owner or Optionee, Location (Twp., Lot, Con. or Lat. and Long.), and Property Name.

Main data table with columns: Footage (From, To), Rock Type, Description (Colour, grain size, texture, minerals, alteration, etc.), Planar Feature Angle, Core Specimen Footage, Your Sample No., Sample Footage (From, To), Sample Length, PPD., and Assays.

1042.0 1044.0 QZ-CARB. VEIN

1044.0 1047.0 FELSIC TUFF GREY, SILICEOUS

1047.0 1050.0 MIXTURE QZ-CARB STRINGERS & Q.F.P.

1050.0 1077.0 FELSIC TUFF GREY, SILICEOUS, CORE BECOMING MORE COMPETENT BY 5-10%

END HOLE 1077 CORE RECOVERY 95%



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Drilling Company <u>LONGYEAR</u>		Collar Elevation <u>1107.6</u>	Bearing of hole from true North <u>S10°E</u>	Total Footage <u>540' BR</u>	Dip of Hole at Collar <u>45</u>	Location of hole in relation to a fixed point on the claim. <u>GRID</u> <u>82+00 EAST</u> <u>2+70 NORTH</u>	Map Reference No. <u>NTS 52F/4</u>	Claim No. <u>K 590624</u> <u>K 365049</u>
Date Hole Started <u>FEB. 18/83</u>	Date Completed <u>FEB. 20/83</u>	Date Logged <u>FEB. 22/83</u>	Logged by <u>R.M. BLAIS</u>		<u>250 Ft. 42</u>		Location (Twp., Lot, Con. or Lat. and Long.) <u>BROOKS LAKE</u> <u>M.-2473</u>	Property Name <u>MARTIN PROPERTY</u>
Exploration Co., Owner or Optionee <u>MARTIN OPTION</u> <u>BARRIER REEF RESOURCES</u>		Date Submitted <u>MAY 9, 1983</u>	Submitted by (Signature) <u>R.M. Blais</u>		<u>540 Ft. 37</u>			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †
From	To						From	To		
<u>0</u>	<u>11</u>		<u>CASING - LEFT IN HOLE - 40' CEMENT PLUG</u>							<u>ppd.</u> <u>9w</u>
<u>11.0</u>	<u>27.3</u>	<u>FELSIC LAPILLI TUFF</u>	<u>GREY, MED. HARD, FOLIATED FRAGMENTAL, STRETCHED FRAGS? 60° TO CORE AXIS, BANDING LT. (QTZ-CARB) DARK CHLORITIC AND BEIGE SERICITE</u>	<u>60°</u>						
			<u>22.7 - 23.0 QTZ-CARB. STRINGER BEIGE COLOR</u>			<u>85173</u>	<u>11</u>	<u>15</u>	<u>5</u>	<u>5</u>
						<u>85174</u>	<u>15</u>	<u>20</u>	<u>5</u>	<u>5</u>
						<u>85175</u>	<u>20</u>	<u>25</u>	<u>5</u>	<u>5</u>
						<u>85176</u>	<u>25</u>	<u>30</u>	<u>5</u>	<u>10</u>
			<u>DISSEM. PY INCREASE NEAR SECTION END 25.0-27.3</u> <u>PY 1-5%</u>							
<u>27.3</u>	<u>65.2</u>	<u>φ.S.S.</u>	<u>27.3-50.5 (CORE RECOVERY 85-90%)</u> <u>WHITISH GREY, MED. HARD, HIGHLY FOLIATED, CORE BROKEN ALONG FOLIATION 60° TO CORE AXIS</u>	<u>60°</u>						
			<u>BEIGE BANDS OF SERICITE</u>			<u>85177</u>	<u>30</u>	<u>35</u>	<u>5</u>	<u>15</u>
			<u>DISSEM. PY 2-8%</u>			<u>85178</u>	<u>35</u>	<u>40</u>	<u>5</u>	<u>5</u>
			<u>50.5-65.2 (DESCRIBED 27.3-50.5), CORE SOLID SLIGHTLY MORE CHLORITIC FRAGS.</u>			<u>85179</u>	<u>40</u>	<u>45</u>	<u>5</u>	<u>15</u>
			<u>60.5-61.5 GREY WHITE SECTION</u>			<u>85180</u>	<u>45</u>	<u>50</u>	<u>5</u>	<u>5</u>
			<u>GREY MATRIX WITH CHLORITIC STRETCHED FRAGS</u>			<u>85181</u>	<u>50</u>	<u>55</u>	<u>5</u>	<u>15</u>
			<u>0.005 mm - 0.01 mm, VERY SILICEOUS</u>			<u>85182</u>	<u>55</u>	<u>60</u>	<u>5</u>	<u>5</u>
			<u>PY 2-8%</u>			<u>85183</u>	<u>60</u>	<u>65</u>	<u>5</u>	<u>5</u>
<u>65.2</u>	<u>66.0</u>	<u>FELSIC LAPILLI TUFF</u>	<u>LIGHT GREENISH GREY, FINE GRAINED</u>							
<u>66.0</u>	<u>68.6</u>	<u>φ.S.S.</u>	<u>DESCRIBED 27.3-65.2</u>				<u>85184</u>	<u>65</u>	<u>70</u>	<u>5</u>
<u>68.6</u>	<u>71.0</u>	<u>DIKE</u>	<u>DIKE? DESCRIBED 65.2-66.0</u>							



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Hole No. **12** Page No. **3**

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPD. Au	Assays ‡
From	To						From	To			
157.8	160.8	DIKE	DIKE			88302	155	160	5	10	
						88303	160	165	5	5	
160.8	181.0	P.S.S.	DESCRIBED 76.2-141.0 QTZ.-CARB. STRINGERS 175.4-175.7, 176.0-176.3 45° TO CORE AXIS, MED.-COARSE FRAGS PY. DISSEM. 1-5%	45°		88304	165	170	5	1120	
						88305	170	175	5	25	
						88306	175	180	5	20	
181.0	182.0	DIKE	DIKE, QTZ.-CARB. FRAGS (COARSE)								
182.0	188.0	FELSIC LAPILLI TUFF	GREY FRAGS.			88307	180	185	5	5	
188.0	188.3	DIKE	DIKE, QTZ.-CARB STRINGER.								
188.3	192.6	FELSIC LAPILLI TUFF	GREY, COARSE FRAGS 186.0-192.6 CROWDED FRAGS			88308	185	190	5	5	
						88309	190	195	5	5	
192.6	198.8	DIKE	DIKE, QTZ.-CARB STRINGER.			88310	195	200	5	5	
198.8	299.0	FELSIC LAPILLI TUFF	GREY, FOLIATED, MED.-COARSE FRAGS 1cm-3cm, MED. HARD, LIGHT + DARK (CHLORITIC STRETCHED) TO FOLIATION 45° SERICITE BANDING 200.3-203.0 SERICITE BANDING DISSEM. PY 1-3% 253.5-259.0 DARK GREY, FINE GRAINED, HARD 266.0-273.0 SERICITE BANDS INCREASE	45°		88311	200	205	5	10	
						88312	205	210	5	5	
						88313	210	215	5	5	
						88314	215	220	5	5	
						88315	220	225	5	5	
						88316	225	230	5	5	
						88317	230	235	5	20	
				60°		88318	235	240	5	10	
						88319	240	245	5	5	
						88320	245	250	5	5	
						88321	250	255	5	5	
						88322	255	260	5	5	
						88323	260	265	5	45	
						88324	265	270	5	20	
						88325	270	275	5	5	
						88176	275	280	5	5	



**Diamond
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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.		Property Name		
					Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPB - Assays ‡	
From	To						From	To		AU	
						88177	280	285	5	5	
						88178	285	290	5	5	
						88179	290	295	5	5	
						88180	295	300	5	5	
299.0	311.8	FELSIC - INT. LAPILLI TUFF	DARK GREY, HARD, FINE GRAINED, FOLIATION NOT PRONOUNCED MINOR PY			88181	300	305	5	5	
						88182	305	310	5	5	
						85369	310	315	5	35	
311.8	370.4	FELSIC LAPILLI TUFF	GREY, HARD, FOLIATED, MED. FRAGS, SERICITE BANDING, SILICEOUS PY INCREASE 3-8%	45°		85370	315	320	5	55	
			PY INCREASE @ 340.0 + 10%			85371	320	325	5	25	
			313.4 - 313.7 QTZ-CARB STRONGER			85372	325	330	5	150	
			INCREASE SERICITE AROUND QTZ.			85373	330	335	5	50	
			315.4 - 315.7 SAME AS 313.4 - 313.7			85374	335	340	5	50	
						85375	340	345	5	90	
						85376	345	350	5	30	
						85377	350	355	5	40	
						85378	355	360	5	145	
						85379	360	365	5	90	
						85380	365	370	5	135	
						85381	370	375	5	60	
370.4	431.0	FELSIC TUFF + LAPILLI TUFF	GREY, HARD, FINE GRAINED, VERY FINE FRAGMENTAL, SILICEOUS, FOLIATION NOT PRONOUNCED, GREY SILICEOUS MATRIX - CHARITIC FRAGS .005 mm. PY 1-5%			85382	375	380	5	35	
						85383	380	385	5	60	
						85384	385	390	5	205	
						85385	390	395	5	250	
						85386	395	400	5	2100	
						85387	400	405	5	900	
						85388	405	410	5	180	
						85389	410	415	5	490	
						85390	415	420	5	230	
						85391	420	425	5	270	
						85392	425	430	5	290	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.		Property Name		
		Ft.							
					Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays ‡
From	To						From	To			
431.0	455.0	FELSIC - INT. LAPILLI TUFF	GREY, MED. FRAGMENTAL, SILICEOUS, HARD, FOLIATION AS° TO CORE AXIS, SOME SERICITE BANDING PY 1-5%			85393	430	435	5	90	
						85394	435	440	5	175	
						85395	440	445	5	170	
			444.0 - 444.3 QTZ-CARB. STRINGER			85396	445	450	5	80	
			444.3 - 445.6 DIKE - QTZ-CARB STRINGER.			85397	450	455	5	105	
455.0	540.0	FELSIC LAPILLI TUFF	CHANGING FROM ABOVE TO GREY, HARD, FINE GRAINED, FOLIATION NOT PRONOUNCED, MINOR SERICITE BANDING			85398	455	460	5	390	
			MINOR PY PY INCREASE 477.0-479.0 3-8%			85399	460	465	5	130	
			494.8 - 496.7 - DIKE?			85400	465	470	5	45	
			503.6 - 503.9 - DIKE?			85401	470	475	5	60	
			507.2 PY BANDING.	45°		85402	475	480	5	35	
						85403	480	485	5	40	
						85404	485	490	5	2800	
						85405	490	495	5	5	
						85406	495	500	5	30	
			END OF HOLE 540'			85407	500	505	5	80	
						85408	505	510	5	55	
			CORE RECOVERY 96% (EXCEPT WHERE NOTED OTHERWISE)			85409	510	515	5	305	
						85410	515	520	5	860	
						85411	520	525	5	45	
						85412	525	530	5	25	
						85413	530	535	5	340	



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Drilling Company LONGYEAR		Collar Elevation 1107.5	Bearing of hole from true North S10°E	Total Footage 566' BQ	Dip of Hole at Collar -45	Location of hole in relation to a fixed point on the claim. GRID 60+80 EAST 3+00 NORTH	Map Reference No. NTS. 52F/4	Claim No. K590290
Date Hole Started FEB. 20/83	Date Completed FEB. 24/83	Date Logged FEB. 28/83	Logged by R.M. BLAIS		232 Ft. -39		Location (Twp., Lot, Con. or Lat. and Long.) BROOKS LAKE SHEET. M. - 2473	Property Name MARTIN PROPERTY.
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted MAY 9, 1983	Submitted by (Signature) <i>R.M. Blais</i>		566 Ft. -32			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPB AU	Assays ‡
From	To						From	To			
0	229		CASING			85456	229	235	6	25	
						85457	235	240	5	30	
						85458	240	245	5	15	
						85459	245	250	5	5	
229	278	Q.S.S. VOLCANIC BRECCIA	DISTINCTIVE LAPILLI TUFF, VERY COARSE, LIGHT FELSIC FRAGS, STRETCHED // TO FOLIATION OF CORE 45° AXIS. SERICITE BANDING, MATRIX DARKER, AGGLOMERATE? ALMOST RHYOLITIC DISSEM PY 1-5%	45°		85460	250	255	5	5	
						85461	255	260	5	15	
						85462	260	265	5	35	
						85463	265	270	5	30	
						85464	270	275	5	30	
						85465	275	280	5	15	
						85466	280	285	5	20	
						85467	285	290	5	5	
						85468	290	295	5	10	
						85469	295	300	5	5	
						85470	300	305	5	10	
						85471	305	310	5	25	
						85472	310	315	5	45	
						85473	315	320	5	90	
						85474	320	325	5	30	
						85475	325	330	5	35	
278	437	FELSIC LAPILLI TUFF (Q.S.S.)	FELSIC BUT TRACHY LOOKING, DARKER FRAGS, FRAGMENTAL TEXTURE, LESS DISTINCT SERICITE BANDING, SILICEOUS, HARD, GREY. PY INCREASE 5-10%			85476	330	335	5	15	
						85477	335	340	5	10	
						85478	340	345	5	20	
						85479	345	350	5	40	
						85480	350	355	5	30	
			323.0 QTL. - CARB - LARGE FRAGS.			85481	355	360	5	50	
						85482	360	365	5	15	
			325-352 CORE BLOCKY AND BROKEN, SMALL FRAGS, LIGHTER IN COLOR, NOT QUITE WHITISH-GREY			85483	365	370	5	10	
						85484	370	375	5	25	
						85485	375	380	5	15	
						85486	380	385	5	10	
						85487	385	390	5	35	
			364-381 SEE SAMPLE			85488	390	395	5	95	

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

† Additional credit available. See Assessment Work Regulations.



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.		Property Name		
					Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays ‡
From	To						From	To			
278	437		LIGHTER COLOR, CORE BROKEN @ 420' + DISSEM. PY 5-8%			85489	395	400	5	60	
						85490	400	405	5	15	
				45°		85491	405	410	5	5	
			416'-437' CORE SUGARY LOOKING, FRIABLE			85492	410	415	5	5	
						85493	415	420	5	20	
						85494	420	425	5	5	
						85495	425	430	5	65	
						85496	430	435	5	35	
						85497	435	440	5	30	
						85498	440	445	5	85	
437	455	FELSIC TUFF + LAPILLI TUFF	GREY, FINE GRAINED (FELSIC TUFF); SILICEOUS FOLIATION NOT PRONOUNCED, MINOR SERICITE BANDING	45°		85499	445	450	5	45	
			DISSEM. PY 1-5%			85500	450	455	5	185	
						85001	455	460	5	700	
455	470	FELSIC - INT. LAPILLI TUFF	MED. - DARK GREY WITH GREENISH HUE APPLE GREEN COLOR WITH BEIGE SERICITE, FOLIATION NOT PRONOUNCED, HAS PATCHY, MOTTLED LOOK	45°		85002	460	465	5	240	
						85003	465	470	5	175	
						85004	470	475	5	35	
						85005	475	480	5	30	
						85006	480	485	5	195	
						85007	485	490	5	65	
						85008	490	495	5	100	
						85009	495	500	5	205	
						85010	500	505	5	105	
						85011	505	510	5	115	
						85012	510	515	5	15	
						85013	515	520	5	100	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.		Property Name		
					Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle †	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb Au	Assays †
From	To						From	To			
520	566	FELSIC TUFF + LAPILLI TUFF	GREY, FELSIC TUFF WITH LIGHT GREENISH BEIGE PHENOCRYSTS (PORPHYRITIC). ALSO SMALL BLACK FRAGS, FOLIATION NOT PRONOUNCED.	45°		85014	520	525	5	925	
						85015	525	530	5	105	
						85016	530	535	5	305	
						85017	535	540	5	35	
			DISSEM BY 1-5%			85018	540	545	5	80	
			END OF HOLE 566'			85019	545	550	5	20	
						85020	550	555	5	130	
						85021	555	560	5	210	
			CORE RECOVERY 95% PLUS.			85022	560	566	6	75	



Drilling Company LONGYEAR		Collar Elevation 1107.1	Bearing of hole from true North S10°W	Total Footage 656' BQ	Dip of Hole at Collar -45°	Location of hole in relation to a fixed point on the claim. GRID - 42+00 EAST 8+00 NORTH	Map Reference No. NTS 52F/4	Claim No. K590294
Date Hole Started FEB. 25/83	Date Completed MARCH 3/83	Date Logged MAR. 22/83	Logged by R.M. BLAIS		60 - 58		Location (Twp., Lot, Con. or Lat. and Long.) HERONRY LAKE M.-2475	Property Name MARTIN PROPERTY
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted MAY 9, 1983	Submitted by (Signature) <i>R.M. Blais</i>		170 Ft. - 62			
					370 - 59			
					435 Ft. - 58			
					495 - 56			
					565 Ft. - 54			
					616 - 52			
					637 Ft. - 49			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡
From	To						From	To		
0	173		BW CASING							
173	177		CORE BROKEN - RECOVERY 50%							
177	295	INT. TUFF + LAPILLI TUFF	GREENISH-GREY, MED. HARD, STRETCHED, FOLIATED LIGHT FRAGS. // TO FOLIATION, MINOR SERICITE. BANDING. LIGHT AND DARK BANDING. LIGHT BANDS 75% OF CORE. LIGHT BANDS - CARBONATE. 256'-295' GREENISH COLOR INCREASES. No PY.	75°						
295	302	INT. LAPILLI TUFF (PORPHYRITIC)	MED. GREY, FINE GRAINED MATRIX WITH LIGHT COLOURED PHENOCRYSTS - 3mm AND LESS (PORPHYRITIC) SOME QUARTZ - CARBONATE STRINGERS. No PY.	75°						
302	340	INT. TUFF + LAPILLI TUFF	DESCRIBED 177-295' LIGHT BANDING INCREASE TO 35% OF CORE, SERICITE BANDING INCREASING. - GREENISH No PY.	75°						



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every page

Hole No. **14** Page No. **2**

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.		Property Name	
				Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †
From	To						From	To			
340	352	INT.-FELSIC LAPILLI TUFF	MED. GREY, TRACHY LOOKING QTZ.-CARB. STRINGERS, SERICITE & FOLIATION HAVE SWIRLY APPEARANCE, LIGHT IN COLOR. MINOR PY 1%								
352	476	INT.-FELSIC TUFF + LAPILLI TUFF	MED.-GREY, FINE GRAINED, SILICEOUS, SERICITE BANDING (GIVE GREENISH HUE TO CORE) CHANGING I TO F, GREENISH STRETCHED FRAGS - 2mm 375'-403' DISSEM. PY INCREASE 1-2%	70°		88221	375	380	5		
						88222	380	385	5		
476	656	FELSIC-INT TUFF + LAPILLI TUFF	GREY, LIGHT BANDING 20% OF CORE, CARBONATE STRETCHED FRAGS // TO CORE AXIS 65°, NOT AS SILICEOUS AS 352'-476' 526' + SERICITE BANDING INCREASE 545' GREENISH TINGE QTZ.-CARB. VEIN 564.5 - 565.0 475'-491' INCREASE IN SERICITE WITH PYRITE + PYRRHOTITE 1% DISSEM. PY. INCREASE 555' + 1-5% 656' END OF HOLE CORE RECOVERY 95% PLUS.	65°							

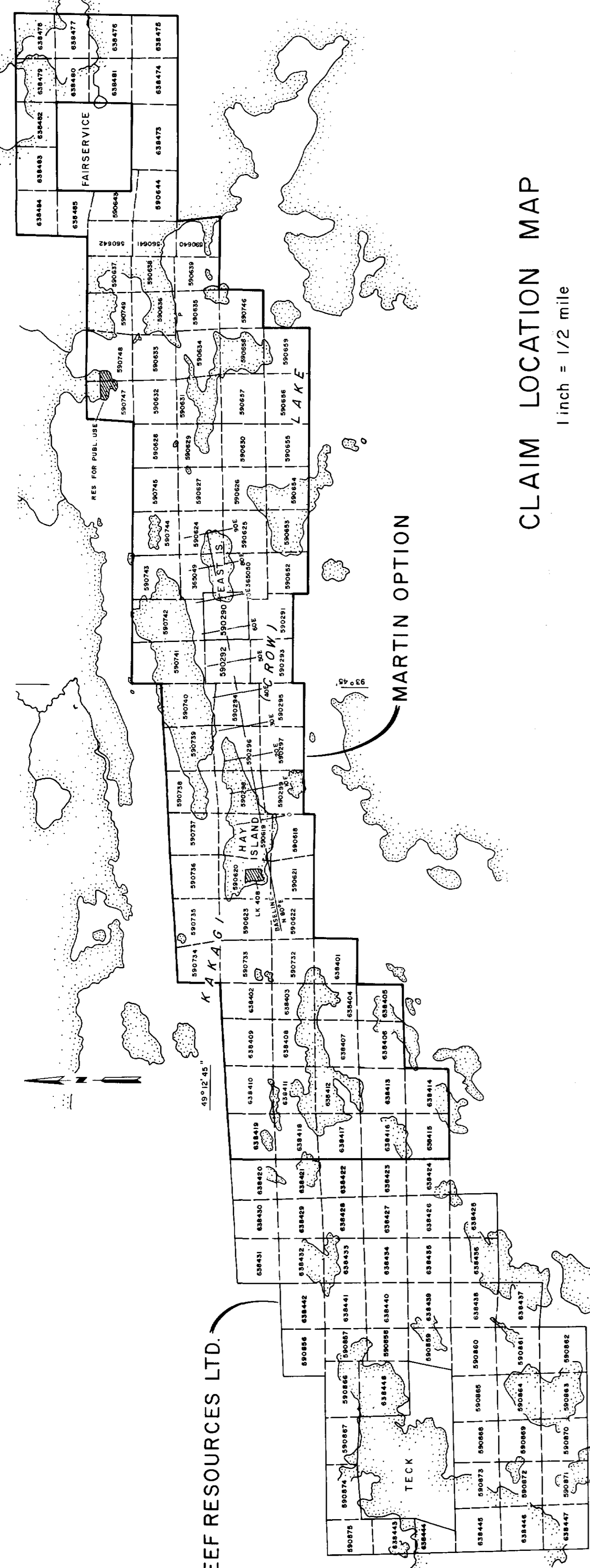
* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.

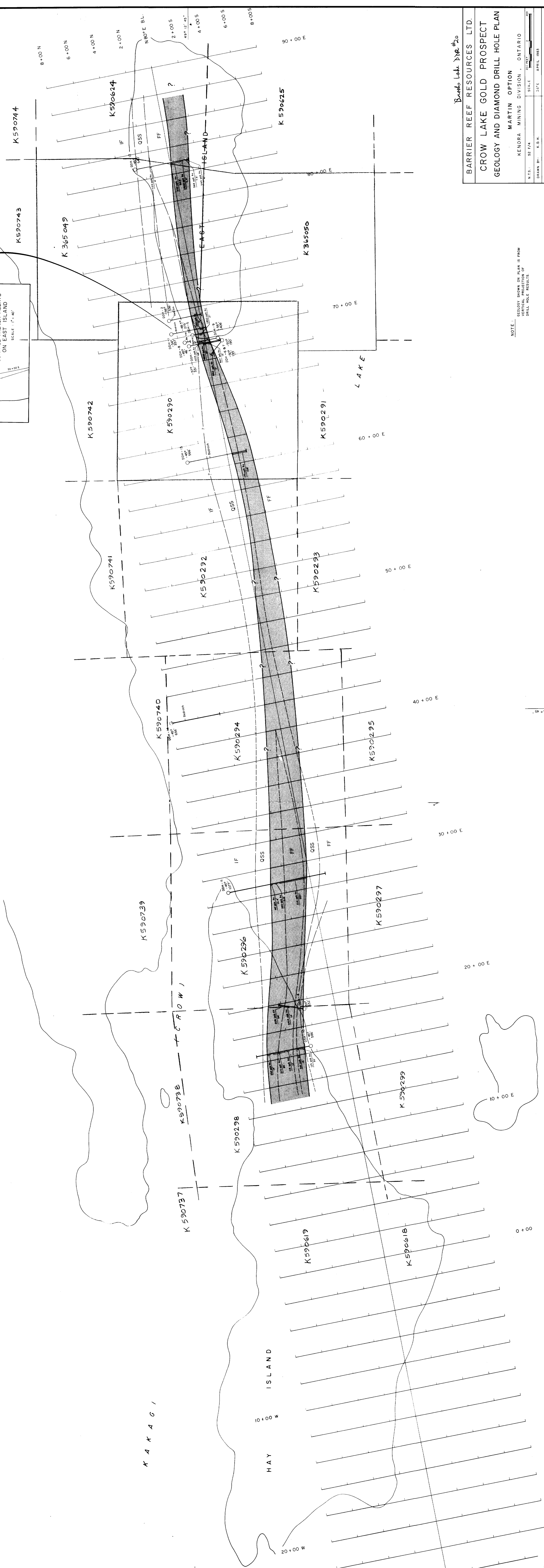
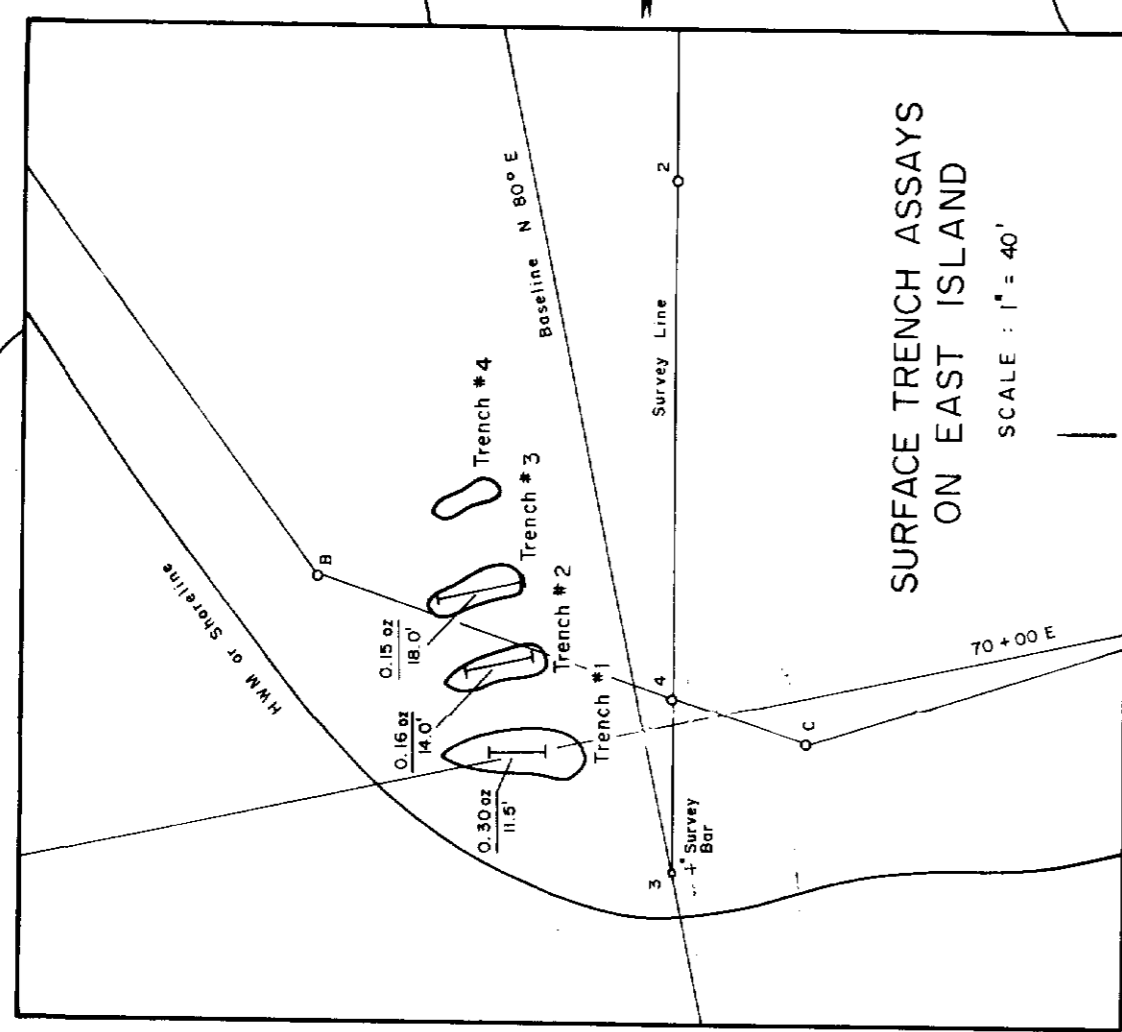
LEGEND

- INTERMEDIATE FRAGMENTAL
 - IF
 - QUARTZ SERICITE SCHIST
 - QSS
 - FELSIC FRAGMENTAL
 - FF
 - GOLD BEARING ZONE
 -
- INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS - Tuffs and lapilli tuff, greenish grey, intermediate to mafic. Moderately schistose with stretched fragments. Composition varies from andesite to dacite.
- QUARTZ SERICITE SCHIST - Siliceous schistose matrix with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.
- FELSIC VOLCANIC FRAGMENTAL ROCKS - Includes basaltic andesite, andesite, dacite and rhyolite. Includes lesser mafic material. Moderately schistose with stretched fragments. General composition of dacite.
- GOLD BEARING ZONE - Felsic fragmental rocks and quartz sericite schist containing 5 - 25% pyrite, 100 to 3000 part gold and minor silver.

BARRIER REEF RESOURCES LTD.



CLAIM LOCATION MAP
1 inch = 1/2 mile



NOTE: ASSAY SAMPLE PLAN IS FROM VERTICAL PROJECTION OF DRILL HOLE RESULTS

BARRIER REEF RESOURCES LTD.
CROW LAKE GOLD PROSPECT
GEOLOGY AND DIAMOND DRILL HOLE PLAN

MARTIN OPTION
 KENORA MINING DIVISION, ONTARIO

SCALE: 1" = 100'
 APRIL 1983

DRAWN BY: K.D.K.
 APPROVED BY: R.M.BLAS

STATISTICS NO. 83-001

