



31M04SW0019 28 STRATHCONA

010

Diamond Drilling

Township of STRATHCONA

Report NO 28

Work performed by: St. Joseph Exploration Limited

Claim NO	Hole NO	Footage	Date	Note
S 437828	189-1	220.98m.	Mar/78	(1)
S 437694	189-2	99.97m.	Apr/78	(1)
S 446583	189-3	77.72m.	Apr/78	(1)

Notes:

(1) #44-78

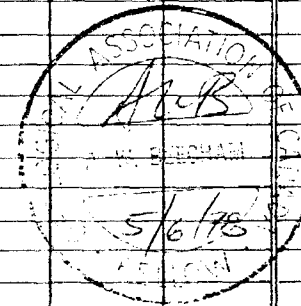
FOOTAGE		SECTION " =	DESCRIPTION				g/tonne		ASSAYS	
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag	Au	Zn %
			Structure: Well bedded at 60-70° some cross - laminations in pale layers.							
			Alteration: lt. green-brown colour due to strong carbonatization (calcite) along certain layers.	3091	60.5	62.0	1.5	2.7	tr	.012
				3092	62.0	64.0	2.0	3.8	tr	.025
			Mineralization: 1-3% diss'd Py esp. with Carb'n. tr Sph tr Cp.	AVG.	60.5	64.0	3.5	3.3	tr	
66.0	77.85		<u>PARACONGLOMERATE</u> Med. grey mod. hard silty matrix 10% pebbles cobbles, feldspar porphyry, grey granite, qtz. porph rhyolite, lamprophyre.							
			Structure: Mostly massive. Some bedded siltstone near bottom bedded at 75°.							
			Mineralization: tr diss'd Py a few small blebs Po near bottom ~3%/10cm.							
77.85	78.60		<u>BEDDED SILTSTONE</u> As above, med. grey.							
			Structure: Thinly bedded at 60°.							
			Mineralization: 2-3% sulphides diss Py and a few blebs Po.							
78.60	103.5		<u>PARACONGLOMERATE</u> Med. grey f.g. arkosic sand size matrix 90%. Clasts 10% - F.P., various granitoids, lamprophyre, mafic volc. mass. rhyolite.							
			Structure: Massive, unbedded. Clasts 3-5mm, 3-10cm & a few granite boulders to 30cm. Small fault at 20° at base, gouge, breccia over 15 cm.							
			Alteration: Relatively fresh, unaltered.							

FOOTAGE		SECTION " =	DESCRIPTION					g/Tonne ASSAYS				
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag	Au	Cu	Pb	Zn
			Veins: 5mm. Py minor Calc., & tr Arsenides? 45°	3093	78.65	78.85	0.20	8.9	tr			
			81.5 2-4 mm. qtz.calc. tr Cp, Sph	3094	78.85	81.00	2.15	2.1	tr	.03	.07	.11
				3095	81.0	82.5	1.5	21.9	.17*34	.03		.36
			No veins.	3096	82.5	84.0	1.5	1.0	tr	.06	.08	.12
				AVG.	78.65	82.5	3.85	10.2				.20
			7mm. Po, minor chl. at 45°.	3097	87.4	87.55	0.15	1.4	tr	.02	.10	.05
			Mineralization: 1% diss'd Py minor Po, as small blebs and veins. Dis'd. & qtz.carb. vein controlled Sph & Cp -see assays.					*duplicate run-probable free Au present.				
			Remarks: Bottom contact is a fault.									
103.5	171.3		DIABASE DYKE									
			Med. - dk. grey, typical ophitic texture Med. grained, in middle with feldspar laths up to 3mm. long - becomes gradually finer grained toward contacts.									
			Alteration: very weakly bleached throughout. Not a fresh-looking diabase.									
			Structure: Upper Ct. a fault - see above, but is f.g. must be close to intrusive Ct. Weak fracturing with qtz.calc. cement in top 5m. Minor broken core 147m. Small fault, gouge, breccia 162.4m. - at 75°.									
			Veins: 15mm. Py-Po-Calc. at 50° Hairline to 5mm. qtz- calc. vein about every 10cm. with minor Py & tr Cp.	3098	103.6	103.8	0.20	0.69	tr			
				3099	103.8	105.5	1.7	tr	tr			
			Sparse hairline qtz-calc. & one 1cm. vein 60°	3100	105.5	107	1.5	0.69	tr			
			Several 2-3mm. qtz. calc. at 60°	3101	107	108	1.0	1.0	tr			
			5mm. qtz. + Py, Po, tr Cp, with 3cm. bleached	3102	108.7	108.9	0.2	1.0	tr			
			7mm. Po tr Cp 25	3103	110.1	110.3	0.2	.69	tr			
			Qtz-calc. minor Po, Py, tr Cp several veins from 1-10cm.	3104	111.4	111.8	0.4	.69	tr			
			10-15mm. solid Po minor Calc. 20°	3105	130.9	131.2	0.3	7.5	.17	high Cu.		
			No Vein	3120	137.8	138.1	0.3	tr	tr			
			25 mm. Po, Py qtz. calc, 10% Cp at 80°	3106	138.1	138.4	0.3	5.8	5.8*7.2	.048		
			No Vein	3121	138.4	138.7	0.3	tr	tr			

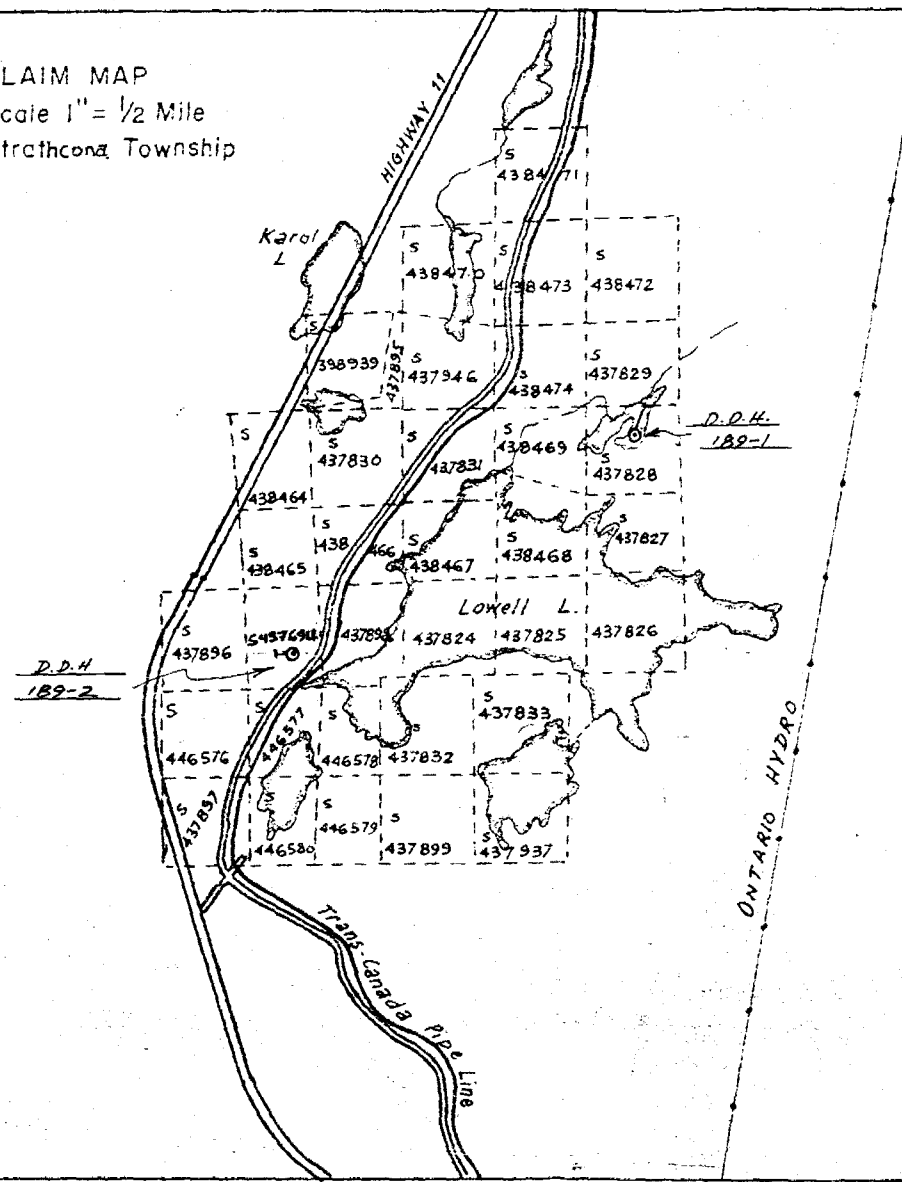
FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	g/tonne		ASSAYS		
FROM	TO							Ag	Au	Cu		
			141.5 - 15cm. stockwerk 1-2mm. qtz. calc. with tr Cp, Py.									
			20 mm. Po-calc. at 80°.	3107	143	143.2	0.2	0.7	tr			
				3122	146.8	147.1	0.3	tr	tr			
			Broken core & 20 mm. Po vein tr Cp 80°	3108	147.1	147.3	0.2	2.7	0.7-0.9*			
				3123	147.3	147.6	0.3	0.7	tr			
			40mm. qtz. with Po, Cp at 70°	3109	159.3	159.5	0.2	1.0	tr			
			10mm. qtz-Po; 20mm. qtz. Py; 20mm. Calc-Po, Cp.	3110	165.4	167.1	1.7	4.1	tr			
			Small blebs Cp	3124	170.8	171.2	0.4	1.4	0.1			
			Mineralization: See 'Veins'. 2 cm. bleb Cp in volc. inclusion at 171m. Abnormal am't Po Cp, probably re-mobilized from volcanics.									*duplicate run - probable free Au
			Remarks: Lower Ct. at 20° or less to core axis - maybe nearly parallel - Inclusion near bottom maybe due to hole going in and out of irregular dyke Ct. This dyke clearly intrusive into underlying altered mafic volcanic.									
171.3	187.3		ALTERED MAFIC FLOW Lt. grey-green tr dark grey, f.g. moderately hard, even grained.									
			Structure: Probable pillows upper 5m. Some incipient bx'n Minor hyaloclastite bx???									
			Alteration: Strongly bleached - sil'd?? & veined with felsic material. Some sauserite?									
			Veins: 20mm & 30mm. qtz. veins at 65° with minor Py	3111	174	174.9	0.9	0.7	tr			
			15mm Po 60°	3125	177.4	177.7	0.3	0.5	0.5			
			6mm. qtz. numerous small felsic veins	3126	177.7	178.5	0.8	tr	<0.1			
			3 mm. qtz.+ Po tr Cp 65° plus numerous felsic veins	3127	178.5	179.0	0.5	tr	tr			
			20mm. qtz. at 70° minor Py	3112	182.2	182.4	0.2	tr	tr			
			25mm. c.g. white calc. at 70°	3113	185.6	185.8	0.2	tr	tr			
			20mm. qtz - calc. 70°	3114	186.5	186.7	0.2	tr	tr			
			Mineralization: tr - minor Po & Py with tr Cp in veins & weak diss'n.	7789	172	174	2.0	14.9	7.10	1.74	49.1	0.88
												Semi-quantitative X.R.F.

FOOTAGE		SECTION " =	DESCRIPTION				ASSAYS							
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag	Au					
			Remarks: Lower Contact vague & lower 1/2 may contain some mafic dyke material.											
			Two 10mm. qtz.calc. Po at 55°	3129	206	207	1.0	tr	tr					
			Several 1-10mm. qt. calc. Py tr Cp	3130	207	208	1.0	tr	tr					
			10mm. qtz. Calc. tr Cp; 10mm. qtz.calc. tr Cp Sph 65°	3131	208	209	1.0	tr	tr					
187.3	215.8		DIABASE (or META-DIABASE) DYKE As above 103-171.											
			Alteration: Pale green - brown bleached zones - strong calcite alt'n. as short section (up to 10cm.) here & there & on margins of veins.											
			Veins: Numerous hairline to 3mm. qtz. & qtz. carb. some with epidote Minor Py, Po. 50mm. qtz.-carb + Po 50° plus 25mm. qtz. 50° and carb'd. zones.	3115	187.2	188.4	1.2	tr	tr					
			10mm. qtz-Po; 3mm. qtz. Po, 8mm. qtz. carb' felsic tr Cp.	3128	188.4	189.6		0.5	0.2					
			25 mm. & 40mm. qtz.-carb minor Po 50°	3116	192.9	193.6	0.7	tr	tr					
			199.4 - 15mm. calc.											
			50mm. white qtz. calc.	3117	204.4	204.6	0.2	tr	tr					
			20mm. white qtz. in 12 cm. carb. in } bleach zone - minor Py, Po, Cp	3118	209	209.2	0.2	1.0	2.9-1.4*				2.16avg	
			Several 2-5mm. qtz-galc + Po	3132	209.2	210.2	1.0	tr	tr					
			10 mm. Calc-Po -35	3119	213.4	213.6	0.2	.7	tr					
			Mineralization: Minor Po & tr Cp in veins mainly as described above.											
			Remarks: 40cm. rhyolite 'inclusion' at 214.5 - probably drillhole nearly parallel to irregular dyke contact. Could be same dyke as 103-171.											
215.8	219		MASSIVE GREY, RHYOLITE											
			Fine grained, hard siliceous, med. grey, even textured.											
			Structure: Incipient brecciation & fracturing with calcite cement.	7790	216	218	2.0	Fe ₂ O ₃ 4.86	MgO 3.75	Na ₂ O 6.44	SiO ₂ 61.5	TiO ₂ 0.57		
								(Semi quantitative - X.R.F.)						
			Mineralization: Minor Py as scattered blebs with tr Cp					*duplicate run - probable free Au						

FOOTAGE		SECTION " =	DESCRIPTION					ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	g/tonne.			
219	220.98		DIABASE - (META DIABASE) As above (187-215m)					Ag	Au		
			Veins: 15cm. zone qtz. vein, sil'n, calc. minor Py 80°	3133	218.4	218.8	0.4	tr			
			5-10mm. Po-Calc & 25 mm white c.g. calc at 80°	3134	219.5	219.9	0.4	tr			
			END OF HOLE 270.98 metres (725 feet)								
			NOTES: Drilled to test WNW-ESE trending EM conductor -5 channel INPUT anomaly (A.E.M.). No explanation obtained. However, probable that conductor dyked out by diabases. Anomalous amounts Po & Cp in diabase suggests it has been contaminated by nearby sulphides. The conductor is near mafic to felsic volcanic contact which adds to interest.								
			<i>A.W. Buchanan</i> 5 June 1978								
			<i>A.W. Buchanan</i> 6/6/78								



CLAIM MAP
Scale 1" = 1/2 Mile
Strathcona Township

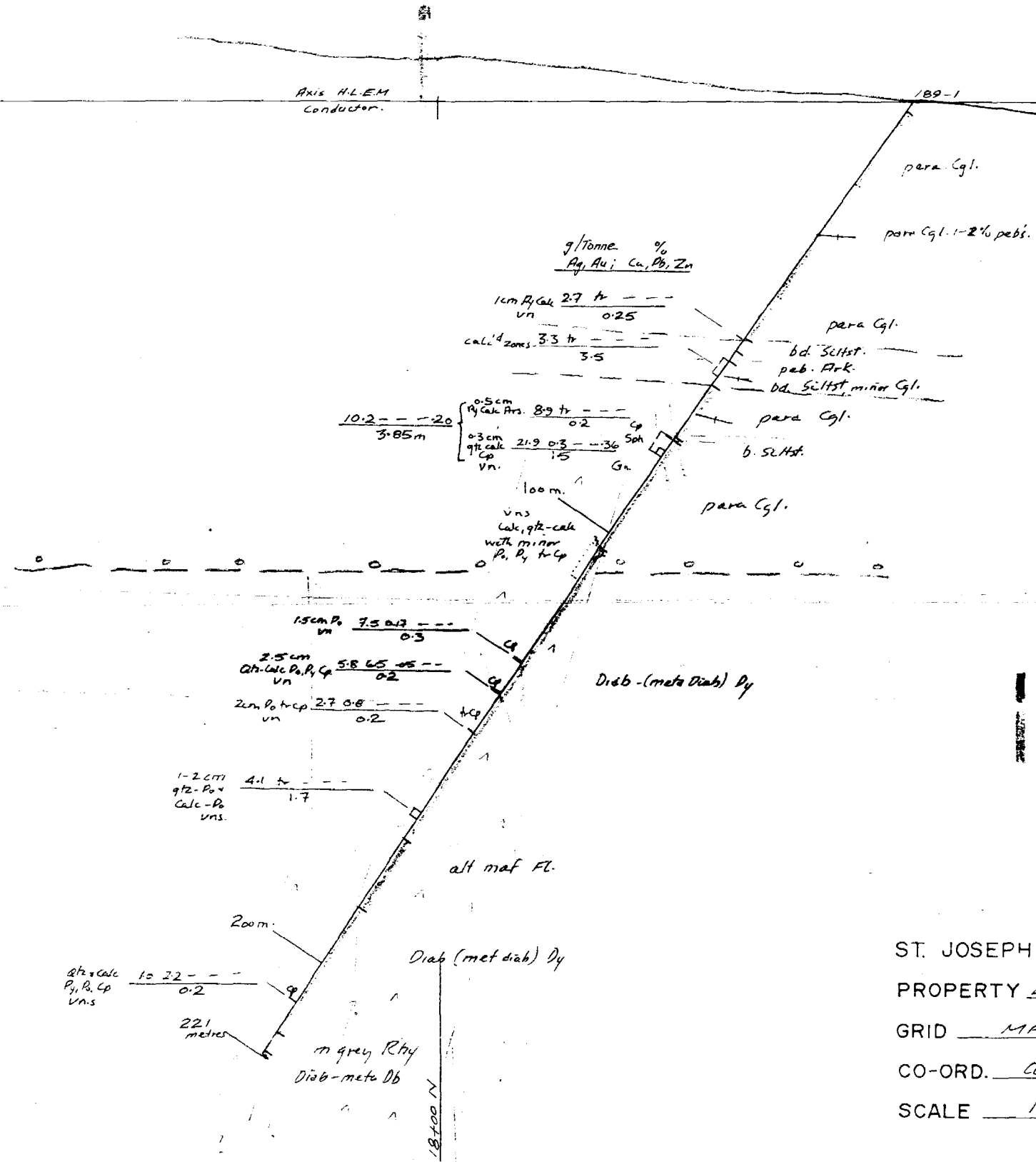


DIAMOND DRILLING

LOCATION PLAN.

HOLE NO. 189-1

SECTION 6+50 E



Axis EM. CONDUCTOR

ST. JOSEPH EXPLORATIONS LIMITED
 PROPERTY LOWELL LK NE. PART
STRATHLONA TWP. TEMAGAMI
 GRID MAIN. NORTH
 CO-ORD. COLLAR. L6+50E 7+10N (met)
 SCALE 1:1000

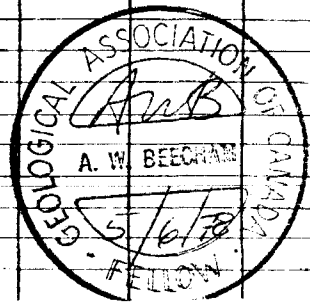
Am B. 11/5/51

FOOTAGE		SECTION " =	DESCRIPTION	SLUDGE SAMPLES			ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag	Au	grams/metric Ton
					7.3	8.5		2.4	tr	
					8.5	10.1		1.4	tr	
					10.1	11.6		3.4	tr	
					11.6	14.3		3.8	tr	
					14.3	17.1		1.0	tr	
						20.1		1.4	tr	
						23.4		0.7	tr	
						26.8		0.7	tr	
						29.9		tr	tr	
						32.9		tr	tr	
						36.0		1.4	tr	
						39.0		.7	tr	
						42.1		tr	tr	
						45.1		.7	tr	
						48.2		tr	tr	
						51.2		1.0	tr	
						54.3		0.7	tr	
						57.3		tr	tr	
						60.4		tr	tr	
						63.4		tr	tr	
						67.1		tr	tr	
						69.5		tr	tr	
						72.5		tr	tr	
						75.6		tr	tr	
						78.6		tr	tr	
						81.7		tr	tr	
						84.7		0.7	tr	
						87.8		0.7	tr	
						90.8		tr	tr	
						93.9		tr	tr	
						96.9		tr	tr	
						100		tr	tr	

A.W. Beecham

5 June 1978

A.W. Beecham
6/6/78



BL 0000E

HOLE NO. 189-2

SECTION RANDOM

270°

Magnetic Anomaly

189-2

Sludge 3.0 tr
7.0 m.

Ag Au
trcp
calc

Cgl. 30% pab's
siltst minor Cgl.

ortho Cgl.
fine Cgl, fsp. Qtzite
Ultra Mafic Dy (pyroxenite?)
meta Dac - Andesite
Amphibolit - meta Volc.
Q.F.P. Dy.

Amph. - meta Volc.
meta Diabase
alt felsic Dy.

magnetite

magnetite

100 metres

meta Diab Dy

ST. JOSEPH EXPLORATIONS LIMITED

PROPERTY LOWELL LAKE

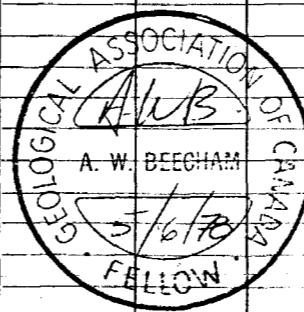
GRID MAIN

CO-ORD. 0467N; 0+35 W. (collar)

SCALE 1:1000

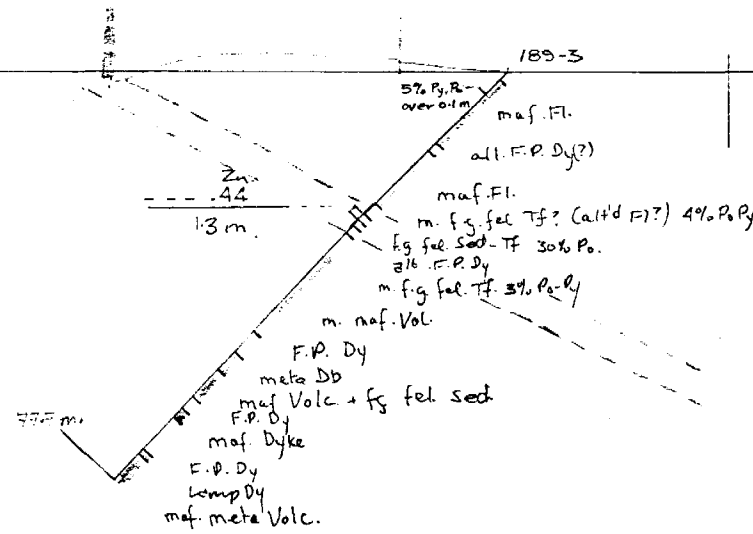
M.B.

FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS			
FROM	TO										
65.5	71.3		<p><u>F.P. DYKE</u> Med. dk. grey- matrix 35-40% 1-3mm subhedral f.sp. Bottom 2m. only weakly porph'ic. Probably dacitic composition.</p> <p><u>Structure:</u> most is massive - weakly foliated here & there at 70°.</p> <p><u>Mineralization:</u> tr Po, Py here & there.</p> <p><u>Remarks:</u> Same as fol'd. unit 61.5 - 63.9.</p>								
71.3	72.6		<p><u>MAFIC LAMPROPHYRE, DYKE</u> Med. f.g. mafic 'felty' textured with scattered pale, brown mica flakes. Lower ct. chilled at 60°.</p>								
72.5	77.72		<p><u>MAFIC METAVOLCANICS</u> Dk. grey green fine med. fine grained.</p> <p><u>Structure:</u> Strongly foliated - schistose banded - Could include some sediments.</p> <p><u>Alteration:</u> Blotchy pink feldspar at 73m. Some minor sil'n. here & there. Epidote in banded sections.</p> <p><u>Mineralization:</u> 1-2% diss'd Py.</p> <p><u>Remarks:</u> F.P. dykes 73.5 - 73.7; 76.5 - 77.5.</p> <p>END OF HOLE 77.72 metres (255 Feet)</p> <p><i>A.W. Beecham</i> 5 June 1978 <i>A.W. Beecham</i> 6/6/78</p>								



HOLE NO. 189-3

SECTION L 400E



AXIS EM CONDUCTOR.

ST. JOSEPH EXPLORATIONS LIMITED

PROPERTY LOWELL LK.

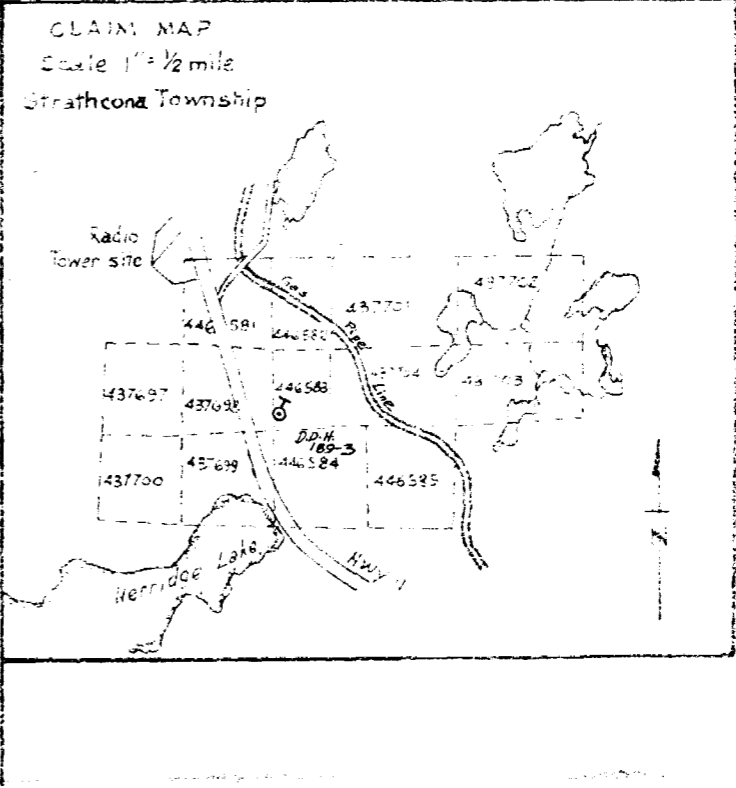
GRID SOUTH GRID.

CO-ORD. COLLAR L400E 1270S.

30 metres N of B.L. 135

SCALE 1:1000

Am. R. 11/51



DIAMOND DRILLING
 LOCATION PLAN.

