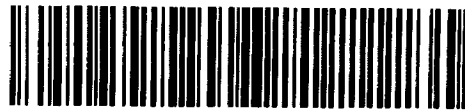


Diamond Drilling



31M04SW0017 30 STRATHCONA

010

Township of STRATHCONA

Report NO 30

Work performed by: I. Savard

Claim NO	Hole NO	Metres	Date	Note
S 437828-9	189-4	182.6	Aug/78	(1)
	189-5	257.9	Aug/78	(1)
		<u>440.5</u>		

Notes:

(1) #14-79





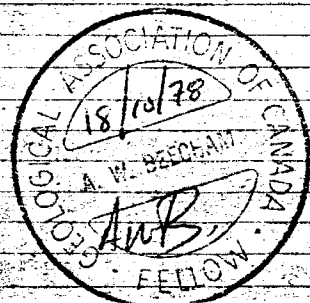




FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	g/tonne ASSAYS		
FROM	TO							EST Cu	Ag	Au
125.4	170		<p><b>MASSIVE MAFIC FLOW</b> Dark grey - green f. m.g. Partly re-crystallized ?</p> <p><b>STRUCTURE:</b> Massive, especially in upper part. Some incipient (flow ?) breccia elsewhere. A few possible sheared pillow selvages. 155.9 - 157.3 Broken core with minor gouge and 50 cm. mafic dyke marks small fault.</p> <p><b>ALTERATION:</b> Numerous felsic and epidotic veins.</p> <p><b>VEINS:</b> 127.2 - 20 cm. qtz. - calcite and acicular green min. tr Po 50° -150.3 3cm. vein as above at 45° -148.2 2cm. " " " " 40° - 1 cm. qtz. tr Po &amp; 3 cm. calc. tr Po -160m. 15mm. qtz. calc minor Po. -160.6 3 cm. calc. -162.7 1 cm. calc. minor Po -163.3 0.5 - 1 cm. Po calc. tr Cp -4 cm. qtz. epidote minor Po 50°</p> <p><b>MINERALIZATION:</b> Minor Po and tr Cp as scattered small belbs mainly in qtz. - calc. veins - SEE VEINS</p> <p><b>REMARKS:</b> Feldspar porphyry dyke. Same as unit 117 - 125 from 130.1 - 131.4m. with Cts. at 85° and 20°. Upper part of this looks dyke-like, but probably massive flow. Lower Contact arbitrary.</p>							
				3188	127	127.4	0.4		1.4	tr
				3189	151.7	152.3	0.6		1.0	tr
				3190	162.6	163.4	0.8	tr	tr	.15
				3191	168.8	169.0	0.20		tr	.15
170	182.6		<p><b>PILLOWED (?) MAFIC FLOW</b> Med. grey, fine grained.</p> <p><b>STRUCTURE:</b> Thin foliated felsic ribbons at about 20° to core are probably sheared pillow selvages. Drill hole may be at small angle to flows. Possible altered amygdules.</p> <p><b>VEINS:</b> 7 cm. qtz. - epidote at 45°. Sample incl. 5 cm felsic - epidotic veins with 4% diss'd. Po.</p> <p><b>MINERALIZATION:</b> Minor Po and tr Cp in epidotic - felsic veins and pillow selvages.</p>							
				3192	178.6	179.1	0.5		tr	tr

End of hole 183.6 metres (599 FT)

FOOTAGE		SECTION " =	DESCRIPTION	SLUDGE SAMPLES			Au g/tonne	ASSAYS		Au g/tonne	
FROM	TO			SAMPLE NO.	FROM	TO		LENGTH	FROM		TO
					7.3	9.1		tr	134.1	137.2	tr
					9.1	12.2		"		140.2	"
						15.2		"		143.3	"
						18.3		"	143.3	146.3	"
						21.3		"	143.3	146.3	" *
						24.4		"		149.4	"
						27.4		"		152.4	"
						30.5		"		155.4	"
						33.5		"		158.5	"
						36.6		"		161.5	"
						39.6		"		164.6	"
						42.7		"		167.6	"
						45.7		"		170.7	"
					45.7	48.8		"		173.7	"
						51.8		"			
						54.9		"	176.8	179.8	"
						57.9		"			
						61.0		"			
						64.0		"			
						67.1		"			
						70.1		"			
						73.2		"			
						76.2		"			
						79.2		"			
						82.3		"			
						85.3		"			
						88.4		"	* Samples with duplicate depths.		
						91.4		"			
					91.4	94.5		"			
						97.5		"			
						100.6		"			
						103.6		"			
						106.7		"			
						109.7		"			
						112.8		"			
						115.8		"			
						118.9		"			
						121.9		"			
						125.0		"			
						128.0		"			
						131.1		"			
						134.1		"			



*A.W. Beecham*  
 18 Oct. 1978  
*A.W. Beecham* 19/1/79

ST JOSEPH EXPLORATIONS LIMITED

DRILL LOG

HOLE NO. 189-5

Copy 1 SEEDBURY  
SHEET 1 OF 1

PROPERTY Lowell Lk. Savard	TP OR AREA Strathcona	AZIMUTH 200°	DATE STARTED 23 August 1978	CORRECTED DIP TESTS		<del>LOCATION OF HOLE</del> <u>TROPARI TESTS</u> DEPTH    DIP    MAG. BEG.    TRUE A. 183 m    -53°    543.5°W    213.5°
PROJECT Option 189	LOT & CONC.	DIP -50°	DATE COMPLETED 31 August 1978	Collar 50		
CLAIM NO. S-437829 & S-437828	CO-ORDINATES. L6+50E 19+30N	LENGTH 257.9 metres	DRILLED BY N. Morissette	61m 50		
GRID NO.	N.E. of Lowell Lk.	COLLAR ELEV. Approx. 20.8 metres	LOGGED BY A. W. Beecham	91m 50		
				152m 51		

FOOTAGE		SECTION	DESCRIPTION (by Brunton Survey)	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS																									
			above elevation large beaver pond																														
			DESCRIPTION (by Brunton Survey)																														
			Down Hole Deviations																														
			<table border="1"> <thead> <tr> <th>Depth</th> <th>Horiz. Dist. along Section line (200°)</th> <th>Elev'n. relative to large Beaver Pond</th> <th>Horiz. Dist. Perpendicular to Section line (right pos., left negative)</th> </tr> </thead> <tbody> <tr> <td>30m</td> <td>19.28m</td> <td>-2.18</td> <td>+0.37</td> </tr> <tr> <td>76m</td> <td>48.76</td> <td>-37.42</td> <td>+2.67</td> </tr> <tr> <td>122m</td> <td>78.13</td> <td>-72.66</td> <td>+6.14</td> </tr> <tr> <td>182m</td> <td>115.17</td> <td>-119.29</td> <td>+13.47</td> </tr> <tr> <td>235m</td> <td>147.25</td> <td>-160.77</td> <td>+21.17</td> </tr> </tbody> </table>	Depth	Horiz. Dist. along Section line (200°)	Elev'n. relative to large Beaver Pond	Horiz. Dist. Perpendicular to Section line (right pos., left negative)	30m	19.28m	-2.18	+0.37	76m	48.76	-37.42	+2.67	122m	78.13	-72.66	+6.14	182m	115.17	-119.29	+13.47	235m	147.25	-160.77	+21.17						
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182m	115.17	-119.29	+13.47																														
235m	147.25	-160.77	+21.17																														
0	3.4		CASING																														
3.4	16.0		PARA CONGLOMERATE MINOR ORTHOCONGLOMERATE Hard med. grey, silt-sand matrix. 5-10% pebbles, cobbles, bldrs. lm. granodiorite bldr. near bottom. Short 20-30cm. gritty orthocongl. Various clasts f.g. mafic, granitic.																														
			STRUCTURE: massive, except gritty sections which are bedded at 60-75°.																														
			MINERALIZATION: tr diss. Py here and there & rare Po.																														
16.0	50.7		PARACONGLOMERATE As above but 2-4% pebbles. Matrix feldspathic Qtzite. sand size. A few gritty layers. Most clasts about 1 - 2 cm. Significant portion of clasts are f.g. felsic volcanics.																														
			STRUCTURE: Most is massive some gritty layers at 35° - 45°. Suggests some relatively steep dips.																														
			ALTERATION: 31- 31.5 bleached, mod. calcite	3193	31.0	31.6	0.6	tr	tr																								

g/Tenue  
(gram per metric tonne)





FOOTAGE		SECTION " =	DESCRIPTION	SPLIT CORE SAMPLES			ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Cu	Au	Cu
68.1	77.6		<p><u>PARACONGLOMERATE MINOR ORTHOCONGL. &amp; GRIT</u> As above. Mainly congl. with about 5% pebbles boulders.</p> <p><u>STRUCTURE:</u> Mostly massive. Grit sections are bedded at 55°.</p> <p><u>MINERALIZATION:</u> at 73.8 - 4% Po, tr Cp over 20 cm. - Po as blebs or clasts and veinlets. tr Cp at around pebble at 74.9m. tr diss'd. Py.</p> <p><u>REMARKS:</u> 70.8 - 71.2 polymictic orthocongl. 72.5 - 73.1 well bedded grit, sandstone. A few pebbles intensely chloritized rock e.g. at 73.1.</p>	3194	73.5	73.9	0.4	tr	tr	tr
77.6	78.5		<p><u>WELL BEDDED SILTSTONE</u> As above.</p>							
78.5	81.1		<p><u>PARACONGLOMERATE</u> As above 4-5% pebbles</p>							
81.1	83.8		<p><u>ORTHOCONGLOMERATE</u> 80% rounded - subrounded clasts of mafic volcanic, diorite, F.P., Q.F.P., and granite up to 20cm.</p> <p><u>STRUCTURE:</u> Massive, unbedded.</p> <p><u>MINERALIZATION:</u> 81.3 minor Cp-Po veinlets 81.9 - 10cm. clast mafic volcanic with 15-20% impregnation Po &amp; tr Cp.</p> <p><u>REMARKS:</u> A few strongly chloritized rounded clasts near top. Cts. sharp, well defined - lower (unconformity) at 40°.</p>							
83.8	92.2		<p><u>MASSIVE MAFIC FLOW OR DYKE</u> Dark grey f.g. med. grained at top. Moderate hardness.</p> <p><u>STRUCTURE:</u> Massive uniform. Foliated section 20cm. at 89 at 30°.</p> <p><u>VEINS:</u> A few 1 - 3mm. white calcite.</p>							

FOOTAGE		SECTION " =	DESCRIPTION				ASSAYS		
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	g/tonne	
92.9	105.5		<p><u>MAFIC FLOW (Pillowed?)</u> Dark grey with short lt. grey foliated sections f.g.</p> <p><u>STRUCTURE:</u> Foliated sections - pillow selvages or thin interflow sediments at 30-45° avg. 35°.</p> <p><u>ALTERATION:</u> A little bleaching-grid type calc. here &amp; there. Mod - strong calc. 100.8 - 101.8. Some grid - type silicification.</p> <p><u>VEINS:</u> 2.5 cm. c.g. calc. 45° at 101.5</p> <p><u>MINERALIZATION:</u> Minor Po in selvages or sediments in upper part. Best conc. 4-5% over 10cm.</p>	3195	100.9	101.9	1.0	tr	tr
105.5	116.2		<p><u>FRACTURED MAFIC FLOW</u> Med. dk. grey fine to med. f.g.</p> <p><u>STRUCTURE:</u> 10 cm. mafic tuff? at 111 fol'd. at 45°.</p> <p>Sections of broken core affects at half of unit - throughout. Most prominent fractures nearly parallel to core. No lost core - does not look like significant fault. Amount of broken core probably due to fractures being parallel to core.</p> <p><u>ALTERATION:</u> Strong grid type calc. 109 - 112.5m.</p> <p><u>VEINS:</u> 1 to 15 cm. white calc. parallel to core.</p> <p><u>MINERALIZATION:</u> tr Py films on fractures.</p>	3196	107.2	108.7	1.5	tr	tr
116.2	125.5		<p><u>MAFIC FLOW</u> Med. dk. grey f.g. Weakly f.sp porphyritic at top.</p> <p><u>STRUCTURE:</u> Possible Amygdules at top. Fine bx. probably hyaloclastite pillow selvages at 122 foliated at 45°.</p> <p><u>VEINS:</u> A few thin hard white veins here &amp; there.</p>						

FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Estimate	g/tonne ASSAYS	
FROM	TO							Cu%	Ag	Au
			MINERALIZATION: Minor Po 1% as streaks, scattered blebs with tr Cp. tr Py as films on fractures							
125.5	139.6		C.G. MAFIC FLOW OR METADIABASE Dark grey, med. grained, locally med. coarse. Even grained but with small dark clumps of mafic crystals.							
			STRUCTURE: Massive							
			VEINS:							
			1.5 cm. Calc. Po 35°	3197	126.3	126.5	0.20	.3	.10	
			1 cm. carb-minor Py 25°	3198	129.5	129.9	0.40	tr	tr	
			3 cm. calc. bx. tr Po, Cp 80°	3199	132.8	133.0	0.20	.3	.10	
			MINERALIZATION: See 'veins'. Elsewhere minor Po veinlets and isolated blebs.							
			Remarks: No intrusive contact (gradational) with enclosing flows - probably part of thick flow.							
139.6	150.9		ALTERED MAFIC FLOW Dk. grey f.g. even grained, possible feldspar pheno near bottom.							
			STRUCTURE: Short foliated sections (pillow selvages ?) at 35° - 80°.							
			ALTERATION: Strong epidote - calcite alt'n. as streaks, veins etc.							
			VEINS: See alteration.							
			1 cm. qtz. - calc. epidote at 40° and 2 cm. calcite Py - Cp parallel to core.	3200	149.9	150.7	0.8	tr	tr	.15
			MINERALIZATION: See 'veins'.							
150.9	189.2		DIABASE DYKE (NIPISSING ?) Dark grey, med. - med. coarse grained well developed ophitic texture. Feldspar somewhat 'stubby'.							
			STRUCTURE: Very massive & uniform. Minor fracturing & broken core towards 'bottom' of dyke. 177.3 Minor gouge on 45° fracture.							

FOOTAGE		SECTION " =	DESCRIPTION				EST % Cu	g/tonne ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO		LENGTH	Ag	Au	Cu %
			ALTERATION: A few minor sections pervasive calc.								
			VEINS: 1.5 cm. qtz - calc. epid. (?) Po at 6°	4401	152.6	153.6	1.0	1.0	.70		
			2 cm. qtz. calc. epid. minor Cp 20°								
			1-2 cm. qtz. - calc. Po, tr Cp at 0 - 5°	4402	154.4	155.4	1.0	.5	.15		
			0.5 cm. " " "								
			0.5 cm. qtz. - Cp - Po 23°	4403	155.4	156.0	0.6	.30	tr		
			1 cm. plus Po - qtz. 0°	4404	156.0	156.8	0.8	.50	.15		
			1.5 cm. qtz. Po - Cp 13°	4405	157.7	158.0	0.3	1.4	1.70		
			1 cm. Po - Qtz. 20°	4406	161.55	161.75	0.2	1.0	.35		
			4 cm. Qtz-carb. banded 50°	4407	180.1	180.4	0.3	tr	tr		
			1 cm. qtz. calc. with minor Po, tr Cp at 50°	4408	187.9	188.1	0.7	tr	tr		
			REMARKS: Well developed chilled contacts at 60°. This looks like Nipissing type diabase.								
189.2	203.2		ALTERED PILLOWED (?) MAFIC FLOW								
			Med. grey, lt. gry, pale green where altered. Most is fine grained but some m.g. sections.								
			STRUCTURE: Short sections angular and undeformed to strongly foliated fine breccias. Flow and hyaloclastic bx. Foliation at 0 - 70° Probably follows pillow selvages. Apparent fold at 196 is probably pillow selvaige. 30 cm. broken core and a little gouge at 40° (?) at 202.8.								
			ALTERATION: Blotches, streaks, veins of pale green, hard alt'n. probably sil'n. and epidote, but also with strong pervasive calcite. Mod. - strong calc. in bottom 2 m. associated with calcite vein and small fault.	4409	190.0	191.0	1.0	.2	.30	.05	.07
				4410	191	192	1.0	tr	tr	tr	
			VEINS: 9 cm. qtz. epidote tr Po 55°	4411	195.4	195.6	0.2		tr	tr	
			1.5 cm. white calcite minor Py at 40° in small fault								
			1.5 cm. calcite minor Po infract. zone 25°	4412	201.7	202.5	0.8		tr	tr	
			MINERALIZATION: Minor Po here and there in veins as indicated above. Up to 4% Po/20 cm. near top in altered zone. Cp about 1% over 20 cm. in altered zone near top.								
203.2	204.8		FRACTURE ZONE - RHYOLITE DYKE OR FLOW (?) See Following.								



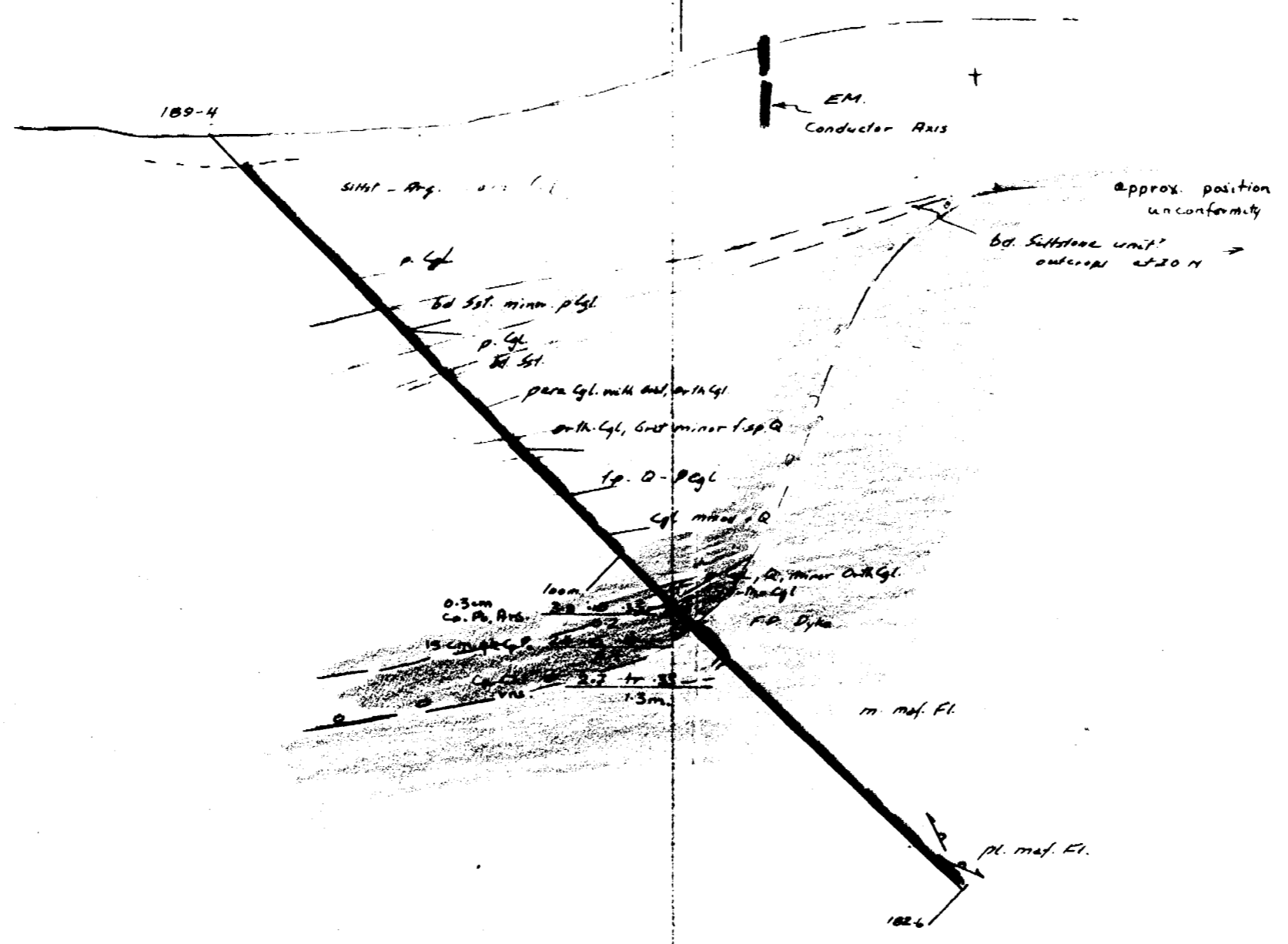








S.S.W.



N.N.E.

Elevation of large beaver pond

N.E. LOWELL LAKE

DIAMOND DRILL

SECTION 5+75E

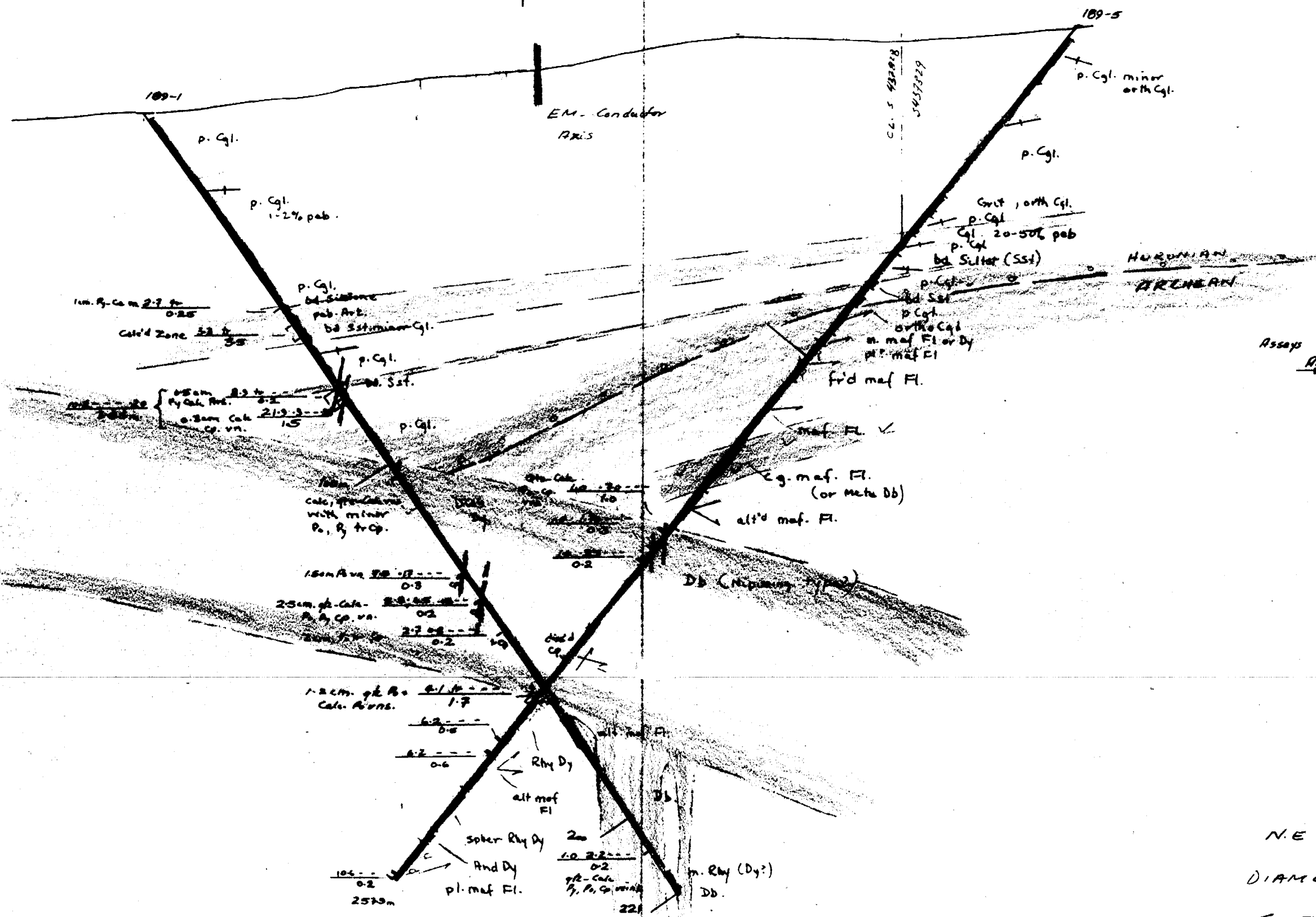
SCALE 1:1000

1cm = 10m.

M.B. 2/10/38

SSW

NNE



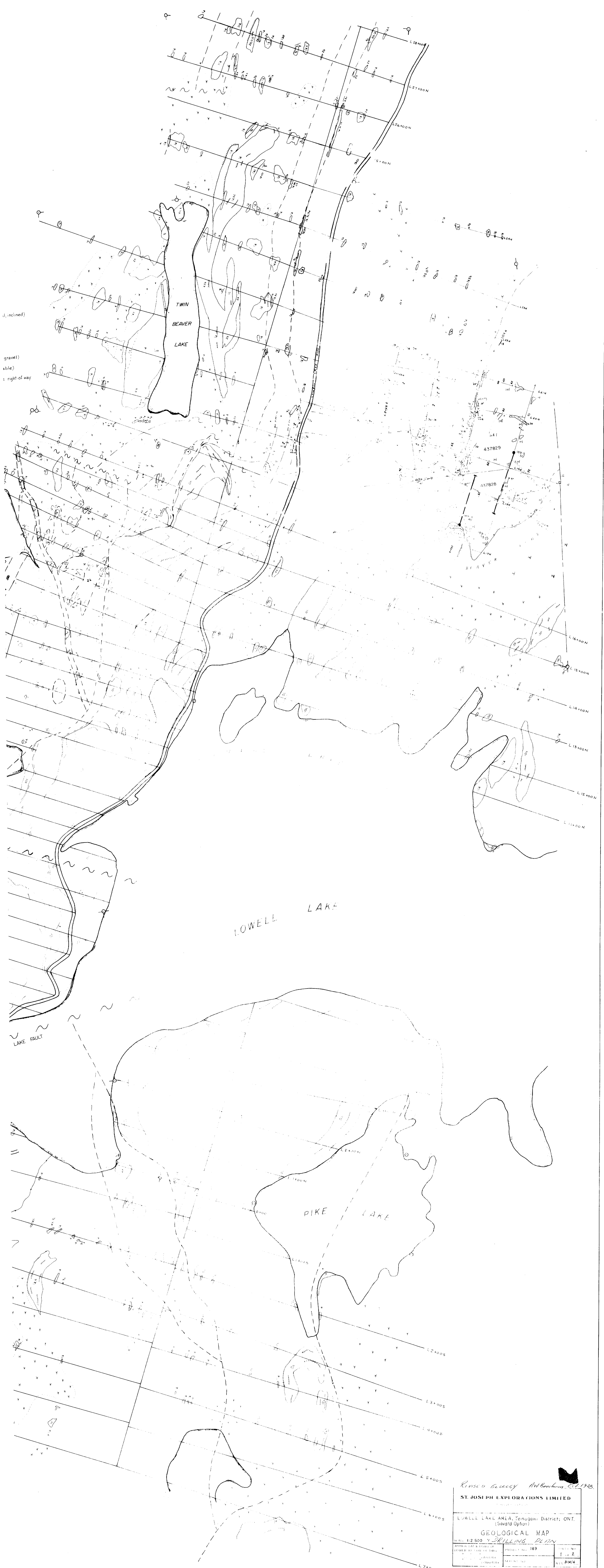
Assays  
 Ag, Au g/tonne Cu, Pb Zn %  
 metas.

N.E. LOWELL LK.  
 DIAMOND DRILL  
 SECTION 6+50E

SCALE 1:1000

1cm = 10m.

AUG. 2/10/78



*Revised Geology Holburnham, Ont. 1925.*  
**ST. JOSEPH EXPLORATIONS LIMITED**  
 LOWELL LAKE AREA, Temagami District, ONT.  
 (Seward Option)  
**GEOLOGICAL MAP**  
 SCALE 1:2,500 **DRILLING PLAN**  
 SHEET NO. 189  
 SHEET NO. 1 OF 2  
 PROJECT NO. 189  
 DATE 1925

- MIDDLE PRECAMBRIAN  
 Mafic Intrusive Rocks (Nipissing Type)  
 11a Quartz bearing diabase, gabbro 11c Medium grained diabase dykes  
 11b Quartz diorite
- Huronian Supergroup  
 Cobalt Group  
 Gowganda Formation
- 10a Greywacke, siltstone, argillite 10f Polymictic p. conglomerate  
 10c Polymictic conglomerate 10g Polymictic orthoconglomerate  
 10e Varved siltstone, minor pebbles 10h Feldspathic quartzite

- EARLY PRECAMBRIAN (ARCHEAN)  
 Mafic Intrusive Rocks  
 3a Altered diorite and diabase, dykes and sills  
 3b Chloritic mafic dykes  
 3c Biotite rich lamprophyre

- Intermediate to Felsic Intrusive Rocks  
 Hypabyssal Felsic Intrusive Rocks  
 7a Quartz porphyry  
 7b Quartz-feldspar porphyry  
 7c Feldspar porphyry  
 7d Quartz diorite porphyry  
 7e Hornblende-bearing feldspar porphyry

- Granitic Plutonic Rocks  
 6a Quartz monzonite  
 6b Hornblende trondhjemite  
 6c Hornblende quartz diorite, diorite  
 6g Aplite, felsite, pegmatite  
 6h Granite  
 6j Granodiorite

- Metavolcanics  
 Felsic to Intermediate Metavolcanics  
 2a Rhyolite to rhyodacite  
 2b Rhyodacite to dacite  
 2d Felsic tuff, lapilli tuff  
 2e Rhyolite (dykes and sills)  
 2j Cherty tuffaceous sediments

- Mafic to Intermediate Metavolcanics  
 1a Massive to foliated andesite to basalt  
 1b Porphyritic andesite to basalt  
 1c Pillowed lava  
 1d Fine-grained amphibolite  
 1e Massive, coarse grained amphibolite (in part early meta-diorite and meta-gabbro)  
 1f Gneissic metavolcanics  
 1h Mafic lapilli tuff  
 1k Altered andesite to dacite  
 1l Medium grained mafic flow

① May include some rocks of unit 11 (Nipissing Type)  
 ② In part is metamorphosed mafic volcanic rock (1a)

518, 032 1/4 Sec. 1, T. 10, R. 10

- po Pyrrhotite  
 py Pyrite  
 cpc Chalcocopyrite  
 sp Sphalerite
- bx Brecciation  
 cb Carbonate veins
- x Small bedrock outcrop  
 Area of bedrock outcrop  
 Bedding  
 Lava flow, top from pillow shape  
 Foliation  
 Geological boundary  
 Fault (assumed)
- o Drill hole, (vertical, inclined)  
 Trench  
 Claim post  
 Swamp  
 Road (paved or gravel)  
 Trail (not driveable)  
 Edge of pipeline right-of-way

SCALE 1:2500  
 0 50 100 200 meters

