



31M04SW0018 31 STRATHCONA

010

# Diamond Drilling

Township of STRATHCONA

Report N<sup>o</sup> 31

Work performed by: St. Joseph Exploration

Claim N <sup>o</sup>	Hole N <sup>o</sup>	Footage	Date	Note
S 418712	133.1-1	232.25 m	Aug/78	(1)
	133.1-2	196.9 m	Aug/78	(1)
		<hr/>		
		429.15 m		

## Notes:

(1) #18-79

PROPERTY Wackich	TP OR AREA Strathcona	AZIMUTH 358°	DATE STARTED 5/9/79	CORRECTED DIP TESTS		LOCATION SKETCH OF HOLE <i>Handwritten notes and diagrams</i>
PROJECT 133.1	LOT & CONC.	DIP 59.5°	DATE COMPLETED 11/9/78	Collar	-59.5°	
CLAIM NO. <i>5000-42</i>	CO-ORDINATES. 15E 0+41N	LENGTH 232.25	DRILLED BY N. MORISSETTE	61m	-64°	
GRID NO. Wackich Main Grid		COLLAR ELEV.	LOGGED BY A. W. Beecham	122m	-68°	
				183m	-67°	

SECTION		DESCRIPTION	ASSAYS			
FROM	TO		SAMPLE NO.	FROM	TO	LENGTH
0	3.35 metres	CASING				
3.35	19.0	<p><u>ARGILLITE - PARACONGLOMERATE</u>                      Dark grey f.g. silty in places. Moderate hardness. Composed mainly of fine feldspar (?) &amp; quartz. Scattered qtz. grains less than 1% small 1 cm., rounded pebbles.</p> <p><u>Structure:</u> massive</p> <p><u>Alteration:</u> Minor weak grid sil'n. at bottom.</p> <p><u>Mineralization:</u> 1/2% finely diss'd. Py.</p>				
19.0	23.8	<p><u>FRACTURE ZONE - ARGILLITE - PARA CGL.</u>                      As above</p> <p><u>Structure:</u> Highly fractured throughout but no gouge seen. One prominent fracture parallel to core axis.</p> <p><u>Mineralization:</u> Fractures strongly limonitic                      Minor Py diss'n. 1/2%</p> <p><u>Remarks:</u> Probably does not mark significant fault - wide fracture zone because core nearly parallel to fracture.</p>				
23.8	40.9	<p><u>ARGILLITE - PARACONGLOMERATE</u>                      As above.</p> <p><u>Structure:</u> Sections of broken core here and there throughout.</p> <p><u>Mineralization:</u> 1/2% diss'd. Py.</p>				

FOOTAGE		SECTION "="	DESCRIPTION				ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	g/tonne	Ag	Au
			Remarks: Fine arenite in middle part.							
40.9	44.8		<u>FELDSPATHIC QUARTZITE</u> Med. grey brown - hard 90% qtz.  Structure: beds 2mm to 0.5m. at 45-35°  Veins: 2cm qtz. epidote - chl. bleb and 2 cm pk f.sp qtz.	4460	43.3	43.7	0.4	0.5	tr	
			Mineralization: tr diss'd. Py.							
44.8	52.0		<u>ARGILLITE - PARACONGLOMERATE</u> As above. A few granitic clasts up to 6cm. Matrix variable mod. to hard. Some could be called f.g. quartzite or siltstone.  Mineralization: ½% diss'd. Py							
52.0	58.3		<u>FRACTURE ZONE - ARGILLITE</u> As above, but with 2-3% 0.5- 1cm. thick light grey chert-like beds.  Structure: small fault with 2-3cm calcareous gouge at 25° at 52.5m. Most of section strongly fractured probably minor faults at 55.7 57.1. However, fracture zone does not look like a major fault.  Alteration: "Chert-like" beds maybe selectively sil'd.  Mineralization: tr - minor diss'd. Py.							
58.3	83.5		<u>ARGILLITE - MINOR PARACONGLOMERATE</u> As above. Almost no clasts except for paracgl. beds.  Structure: Massive soft sediment deformation in felsic beds.  Alteration: 1-3% thin (0.3-2cm) beds and partings of f.g. felsic (chert like) material - probably due to alteration of certain beds. Some weak - moderate carb'n. of felsic beds.							

FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS				
FROM	TO							Ag	Au	g/tonne		
			Mineralization: tr diss'd. Py with conc'n. up to 3 or 4% over 10cm adjacent to thin felsic beds. tr Cp at 75.6 & 82.									
			Remarks: Sandy parogl. beds 73.3 - 74.1 and at 80.7.									
			Samples: 3 thin felsic beds with diss'd. Py on either side.	4461	62.7	63.6	0.9	1.0	tr			
83.5	97.0		<b>PARACONGLOMERATE</b> Dark grey silt - fine sand size, dirty quartzite matrix, abundant quartz sand grains. Rounded clasts granitic c.g. mafic and f.g. felsic from a few mm to 30cm.  Structure: Mostly massive. Silty layers at 85.2 well bedded at 60-70°.  Mineralization: Minor diss'd. Py in mafic clasts.									
97.0	112.2		<b>ARGILLITE - PARACONGLOMERATE</b> As above.  Structure: lm. broken core - minor fault zone at 98.3.  Veins: a few 1-3mm white calcite and cream carb. vein.  Remarks: Lower contact Huronian - Archean unconformity sharp at 60°. Bleaching and silicification of bottom 30 cm.									
112.2	133.0		<b>PILLOWED - MASSIVE MAFIC FLOW WITH COARSE GRAINED VOLCANICS</b> Med. grey, moderate hardness mainly f.g. material with about 15% m-c.g. material. Latter is mq and fol'd. or c.g. and spotted due to clusters of mafics. : G between 2 types both gradational, and sharp intercalations.  Structure: A few obvious pillow selvages near top. c.g. phase seems to be either re-crystallized hyaloclastite interstitial to pillows - re-crystallized pillows with f.g. rims ?	7796	125	127	2.0	SiO <sub>2</sub> 47.5	TiO <sub>2</sub> 0.84	Fe <sub>2</sub> O <sub>3</sub> 15.4	MgO 9.57	Na <sub>2</sub> O 2.97





FOOTAGE		SECTION (" =	DESCRIPTION				EST Cu Zn	3/ tonne ASSAYS						
FROM	TO			SAMPLE NO.	FROM	TO		LENGTH	Ag	Au	Cu	Pb	Zn	
			Remarks: Upper ct. abrupt. Lower ct. may be abrupt. finer grained near contacts. Either re-crystallized hyaloclastite or dyke. 162.6-162.7 Andesitic dyke											
165.6	171		<u>PILLOWED MAFIC FLOW WITH COARSE GRAINED SECTIONS</u> As above, 112-133.											
			Structure: A few foliated pillow selvages. A little fine bx. near top.											
			Alteration: some epidotic veining.											
			Veins: 166.3 - 2cm calc. qtz. with blebs Po tr Cp at 45											
			Mineralization: Minor Po at top - small veins and in qtz. carb veins. Minor Cp - Po conc. in felsic vein at 167.4.	4469	165.7	166.5	0.8		3.0	tr				
171	182.1		<u>COARSE GRAINED MAFIC VOLCANIC</u> As above 155 - 165.											
			Structure: Zones of shearing 45-30° with adjacent rock well foliated.	7798	178	180	2.0	SiO <sub>2</sub> 46.5	TiO <sub>2</sub> 0.79	Fe <sub>2</sub> O <sub>3</sub> 15.3	MgO 8.91	Na <sub>2</sub> O 3.03		
			Alteration: Minor dark chlorite along shears.											
			Mineralization: Minor Po diss'n. and tr Cp over 5cm. at 173.2. A few blebs Po near end of unit. lmm veins of Sph with tr Cp & diss Po at 174.5.	4470	173.9	174.7	0.8	tr	.2	2.0	.15	.024	.026	
				4471	181.2	182	0.8		1.0	.10				
182.1	192.6		<u>ALTERED MAFIC FLOW</u> Med. grey - lt. grey lt. grey brown where strongly altered.											
			Structure: Minor bx. a few pillow selvages.											
			Alteration: Upper 2 and bottom 1m. and short sections in between strongly sil'd. A few wisps dk. chl. here & there. similar to altered zone in 133.1-2 which carried Au values.	4472	182	183	1.0	tr	2.5	.20	0.022			
				4473	183	184	1.0	tr	tr	tr	0.018			







PROPERTY Wagkich	TP OR AREA Strathcona	AZIMUTH 178°	DATE STARTED 13/9/78	CORRECTED DIP TESTS			LOCATION SKETCH OF HOLE 265m North 197m East #3 post-cl. S-478712  TEST Depth 40m by Time Pz. D. 524 S21W 191° -39
PROJECT 133.1	LOT & CONC.	DIP 46.0°	DATE COMPLETED 16/9/78	Collar	-46°		
CLAIM NO. S 478712	CO-ORDINATES L5E, 2+72N	LENGTH 196.9m	DRILLED BY N. Morissette	30m	-46°		
GRID NO. Wagkich Main Grid		COLLAR ELEV. 21m below collar of	LOGGED BY A. W. Beecham	61m	-47°		
				22m	-44°		

FOOTAGE		SECTION	D.H. 133.1-1 DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS	
FROM	TO	"#						Ag	Au
0	8.0		Casing						
8.0	13.0		<u>ARGILLITE - PARACONGLOMERATE</u> Med. grey relatively soft. Clay - silt size with feldspar and qtz. sand. 1-3% clasts 3-6 mm  <u>Structure:</u> Massive unbedded.						
13.0	22.0		<u>PARACONGLOMERATE - ARGILLITE</u> As above unit but with up to 10% pebbles, cobbles & boulders. 20cm granites, 50cm m.g. mafic.						
22.0	30.1		<u>ARGILLITE - PARACONGLOMERATE</u> As above 8.0 - 13.0 m. A few cobbles toward base.  <u>Structure:</u> A few 10 cm sections broken core from 23 - 29 metres.  <u>Veins:</u> 1 cm red feldspar - calcite tr Cp 3 cm white qtz. and red feldspar 70°  1.5 cm cream calcite qtz. scattered blebs Po 45°	4442	23.0	23.15	0.15	tr	.15
				4443	28.2	28.4	0.20	tr	.50
				4444	29.2	29.4	0.2	tr	tr
			<u>Alteration:</u> Bottom 15 cm. strongly bleached with weak calcite.						
			<u>Remarks:</u> Bottom contact - unconformity sharp - at 15 - 20°.						
30.1	57.6		<u>BLEACHED PILLOWED MAFIC FLOW</u> light to med. grey. Even grained, moderate to hard. Fine grained.						

FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS	
FROM	TO							Ag	Au
			<u>Structure:</u> Well developed pillow selvages some with hyaloclastite up to 2 or 3 cm thick. Some incipient brecciation.						
			<u>Alteration:</u> Moderately to strongly bleached sections strong pervasive calcite stockwork. (45-58) Some strong black chl. in pillow selvages 48.5 & 50.4.						
			<u>Veins:</u> Stockwork white calcite from hairline to 3 cm from 45-58m.						
			Numerous 1 - 3 cm white calcite	4445	46.5	48	1.5	tr	tr
			Minor calcite veins tr Cp, Po.	4446	48	49	1.0	tr	tr
			Blebs and veins white calcite up to 3 cm with a few blebs Cp.	4447	49.8	50.3	0.5	2.5	0.35
			<u>Mineralization:</u> See veins tr Po here & there.						
57.6	61.2		<u>INTERMEDIATE LAMPROPHYRE DYKE</u> Med. dk. grey, medium grained, Mica pheno at contacts. Elsewhere flakes mica same size as other minerals.						
			<u>Veins:</u> 0.5 - 1cm calcite at top with tr Cp & Gn.						
			<u>Remarks:</u> Inclusions at contacts, or small parallel dykes and contacts at 50						
61.2	72.65		<u>ALTERED PILLOWED MAFIC FLOW</u> As above.						
			<u>Alteration:</u> Only moderately bleached, dark chl. in pillow selvages here and there. Weak to moderate light brown fracture controlled (grid) silicification(?) in bottom 5m.						
			<u>Veins:</u> Calcite stockwork. 3-4% calcite veinlets up to 1 cm. 61.2 - 63m.						
			<u>Mineralization:</u> tr minor Po ( 1%) as streaks and blebs here and there, with tr Cp.						





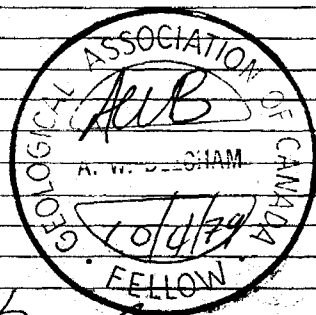
FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	EST		ASSAYS						
FROM	TO							Cu	Zn	Ag	Au	Cu	Zn			
146.8	148.6		SILICIFIED MAFIC (?) VOLCANIC Hard f.g. dk. grey & lt. brown.  Structure: Possible pillow selvages 147.7  Alteration: lt. brown blotches and streaks f.g. in- tense sil'n. or feldspathization ?? Streaks and lens c.g. amphiboles could be meta- morphosed chl.  Mineralization: Diffuse blebs, scattered grains. Po with minor Cp 2-3% Po overall. Isolated large blebs and scattered grains dk. Sph.	4455	146.7	147.7	1.0	tr	tr	1.0	tr	.013	.018			
				4456	147.7	148.6	0.9	.1	.3	1.5	0.85	.038	.16			
				4476	148.6	149.6	1.0			1.5	0.35					
148.6	151		FOLIATED MAFIC VOLCANIC As above 135 - 146. f.m.g.  Structure: Sections of fine bx. hyaloclastie wall fol'd. at 45-50.  Remarks: Grades gradually: to underlying unit. Probably re-crystallized hyaloclastie.													
151	158.8		COARSE - GRAINED MAFIC VOLCANIC OR DYKE Med. grey med. c.g. spotting due to clustering of mafics.  Structure: Massive  Veins: blebs, small veins qtz. - calc. over 5cm. with blebs Po and 5% Cp.  Remarks: Possibly a re-crystallized mafic hyaloclastite.	4457	151.2	151.5	0.3	.2	--	5.5	.15	.33				
158.8	196.9		BLEACHED PILLOWED MAFIC FLOW Med. to light grey f.g. even textured.  Structure: Well developed pillow selvages throughout. Some hyaloclastite selvages. Selvage strongly foliated sheared at 25-45.		181.0	183.0	3.0									
										SiO <sub>2</sub>	TiO <sub>2</sub>	Na <sub>2</sub> O	MgO	Fe	Total	

Probably Sample # 7800 - See pg 5





FOOTAGE		SECTION	DESCRIPTION	SLUDGE SAMPLES			ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	g/tonne	From	To
					7.9	12.2		Au		
					12.2	15.2		tr	134.1	137.2
						18.3		tr		140.2
						21.3		tr		143.3
						24.4		0.1		146.3
						27.4		tr		149.4
						30.5		tr		152.4
						33.5		tr		155.4
						36.6		tr		158.5
						39.6		tr		161.5
						42.7		tr		164.6
						45.7		tr		167.6
						48.8		tr		170.7
						51.8		tr		173.7
						54.9		tr		176.8
						57.9		tr		179.8
						61.0		tr		182.9
						64.0		tr		185.9
									189	189.0
					67.1	70.1		tr		192.0
						73.2		tr	195.1	198.1
						76.2		tr		
						79.2		0.1		
						82.3		tr		
						85.3		0.1		
						88.4		tr		
						91.4		tr		
						94.5		tr		
						97.5		tr		
						100.6		tr		
						103.6		0.1		
						106.7		tr		
						109.7		tr		
						112.8		tr		
						115.8		tr		
						118.9		tr		
						121.9		tr		
						125.0		tr		
					125.0	128.0		0.30		
						131.1		0.10		
						134.1		0.15		

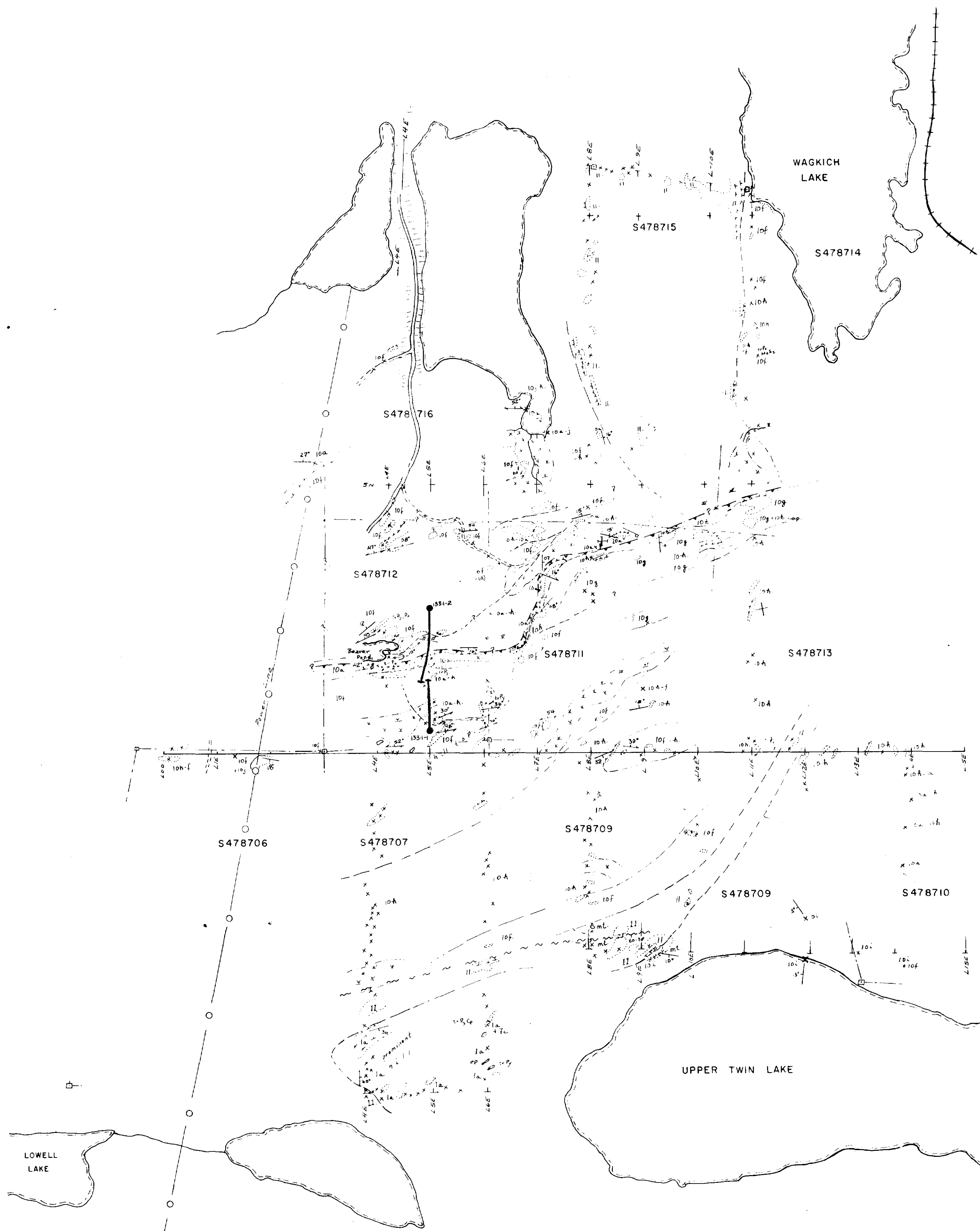


*A. W. Bisham*





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**LEGEND**

DIABASE - NIPISSING TYPE  
 II 932 undifferentiated

**HURONIAN SUPERGROUP**

**COLEMAN (GOWGANDA) FORMATION**

- 10(f) 943 POLYMICCTIC PARACONGLOMERATE, WITH MINOR FELDSPATHIC QUARTZITE mostly massive 5-20% pebbles-cobbles of granitic rocks, volcanics etc. in a sandy matrix
- 10(h) 942 FELDSPATHIC QUARTZITE, GREYWACKE
- 10(g) 944 ORTHO, POLYMICCTIC CONGLOMERATES 50-80% pebbles-boulders
- 10(i) 945 THINLY BEDDED SILTSTONE hard felsic
- 10(a) 947 ARGILLITE - SILTSTONE
- 10(l) 947 THINLY-BEDDED, MAGNETITE-BEARING SILTSTONE - ARGILLITE (IRON FORMATION)

**ARCHEAN**

- 9(a) 933 GABBROIC ROCKS
- 7(c) 929 FELDSPAR PORPHYRY DYKES
- 1(a) 909 MAFIC FLOW ROCKS

**SYMBOLS**

- outcrop, small outcrop, area of outcrop
- bedding strike and dip
- cross-bedding and current direction
- foliation, schistosity parallel to bedding
- schistosity
- fault - definite, approx. location, assumed
- thrust, low angle fault
- geological contact definite, approx. location, assumed
- diamond drill hole
- powerline
- claim post
- claim corner, post not located
- road - motorable, trail
- esker
- py pyrite
- pa pyrrhotite
- cp chalcopyrite
- mt magnetite

Geology by A.W. Bascham, 1978

ST. JOSEPH EXPLORATIONS LIMITED

**GEOLOGY** *DIAMOND DRILLING PLAN*  
 TEMAGAMI AREA - STRATHCONA TWP.

1:5000

DATE OF ISSUE	3133-1	SHEET NO.	1
PROJECT NO.		PROJECT NO.	
DATE OF REVISION		DATE OF REVISION	
BY		BY	
CHECKED BY		CHECKED BY	
APPROVED BY		APPROVED BY	
DATE OF APPROVAL		DATE OF APPROVAL	

