



42B01SE0039 28 HORWOOD

010

DIAMOND DRILLING

TOWNSHIP: HORWOOD

REPORT NO: 28

WORK PERFORMED FOR: St. Joe Canada Inc.

RECORDED HOLDER: Same as Above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
964032/ 964033	PP-1	806.7'	Dec/87	(1)
964032	PP-2	492.1'	Dec/87	(1)
964033	PP-3	459.2'	Jan/88	(1)
964034	PP-4	483.9'	Dec/87-Jan/88	(1)
	PP-5	396.3'	Jan/88	(1)
	PP-6	162.1'	Jan/88	(1)
		<u>2800.3</u>		

Notes: (1) W8806.095, filed in Aug/88

Hole No.	PP-1	Northing	Grid Orient	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	December 10, 1987	Logged by	P. Huxhold
Property	Pinecone Point	Easting	Grid Azim.	0.0	- 45	036		100.0	- 47			Finished	December 15, 1987	Checked by	P. Huxhold
Section		Elevation	Length (M)	245.90								Drill Co.	Falcon Drilling	Core	BQ
Claim No.		Survey N.	Dip-Collar	-45NE								Drill No.		Comments:	
Target	Main Zone	Survey E.	Comp Bearing	36.00								Drill For.			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
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SUMMARY

0.00	5.18	Casing
5.18	56.46	Mafic Intrusion
41.60	42.00	Silicified Zone
56.46	59.22	Mafic Intrusive

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
APR 22 1988
RECEIVED

A circular stamp with a signature written over it. The signature appears to be 'J. Huxhold'.

DM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
00	5.18	Casing					
18	56.46	Mafic Intrusion					
		- grey-green, medium-grained (1mm diameter), massive; 20-25% biotite; trace very finely disseminated pyrite; occasional scattered hairline fracture at low angles to CA with chlorite; gouge, ground core plus yellowy-brown limonitic staining from 5.40-5.65m; 5.78-6.35m; 6.65-7.10m; 7.20-9.26m; 10.15-10.34m.					
		10.53-10.66m; after approx. 20.00m gradual increase in chloritization of matrix - from 5.18m to approx. 37.00m approx. 20-25% of core is highly broken due to drilling down fracture system at shallow angles to CA; at 10.42m - hairline fracture with chlorite; 20 deg. to CA; at 11.42m - hairline fracture with chlorite; approx. 80 deg. to CA; at 12.65m - hairline fracture with chlorite. approx. 15 deg. to CA; at 12.77m - hairline fracture with chlorite; approx;					
		20 deg. to CA; at 13.70m - hairline fracture with chlorite; approx. 10 deg. to CA; at 14.12m - hairline fracture with chlorite plus trace finely disseminated pyrite; approx. 20 deg. to CA; at 14.75m - hairline fracture with chlorite approx. 15 deg. to CA; at 14.87m - hairline fracture with chlorite; approx. 15 deg. to CA; at 16.40m - 1cm wide epidotized band; approx. 75 deg. to CA; weak carbonatization; at 17.45m - 2cm wide epidotized band; approx. 75 deg. to CA. at 17.75m - hairline fracture with chlorite; approx. 15 deg. to CA; at 19.38m -					
		1cm wide epidotized band; approx. 75 deg. to CA; weak carbonatization; at 19.80m - hairline fracture with chlorite; approx. 15 deg. to CA; weak carbonatization; at 20.27m - hairline fracture with chlorite; approx. 60 deg. to CA; weak carbonatization; at 20.40-21.00m - zone of increased hairline fracturing at shallow angles to CA (15-20 deg.) and crosscutting high angles to CA (60-75 deg.); chlorite; + trace pyrite on fracture planes; weak carbonatization; at 21.57m - hairline fracture with chlorite; approx. 15 deg; to CA; slickensides at 70 deg. to CA; at 21.89m - hairline fracture with chlorite; approx. 20 deg. to CA; slickensides at 70 deg. to CA (as above) -					
		at 22.10m - hairline fracture (0.5cm) with quartz vein, chlorite; approx; 20 deg. to CA with slickensides on fracture plane at approx. 70 deg. to CA; at					
		22.255-23.30m - zone of hairline fractures with chlorite; approx. 50 deg. to CA - very weak scattered carbonatization along fractures; at 24.74m -					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		hairline fracture with chlorite; approx. 80 deg. to CA; at 25.12m - hairline fracture with chlorite; approx. 75 deg. to CA; at 26.00m - hairline fracture with chlorite; approx. 15 deg. to CA with crosscutting slickensides (as above) ; at 26.45m - hairline fracture with chlorite; approx. 35 deg. to CA with crosscutting slickensides approx. 80 deg. to CA; at 27.50m - hairline fracture with chlorite; approx. 20 deg. to CA with crosscutting slickensides approx. 75 deg. to CA; moderate carbonatization; at 29.60m - hairline fracture with chlorite; approx. 30 deg. to CA; at 30.30m - hairline fracture with chlorite. approx. 45 deg. to CA; at 33.40m - hairline fracture with chlorite; approx. 15 deg. to CA; weakly carbonatized; at 34.53m - hairline fracture with chlorite. 20 deg. to CA with crosscutting slickensides approx. 80 deg. to CA; at 35.50m - hairline fracture with chlorite; approx. 65 deg. to CA; at 36.60m - hairline fracture with chlorite; approx. 10 deg. to CA with crosscutting slickensides approx. 70 deg. to CA; at 38.09m - hairline fracture with chlorite; approx; 45 deg. to CA with moderate carbonatization; at 39.30m - hairline fracture with chlorite; approx. 15 deg. to CA; at 40.07m - felsite dyke; salmon colour. fine-grained, sharp contacts approx. 60 deg. to CA; 1cm wide					
41.60	42.00	Silicified Zone - very weak	6601	41.60	42.60	1.00	0.
	42.60 - 43.22	- zone of increased fractures with chlorite; + trace pyrite; approx. 30-45 deg; to CA	6602	42.60	43.30	0.70	10.
	43.50 - 43.60	Silicified Zone - very weak	6603	43.30	44.30	1.00	0.
56.46	59.22	Mafic Intrusive - dark green-grey, fine-grained, massive; upper contact arbitrary; lower contact gradational; massive-looking, little/no brittle deformation; estimated 15-20% biotite	6604	59.22	60.00	0.78	0.
	60.22 - 84.70	Mafic Intrusive (Altered) - dark green-grey, fine-grained; 1-3Z (1mm diameter) irregular-shaped buff-coloured blotches (chloritized biotite) ; upper contact gradational; massive	6605	60.00	61.00	1.00	0.
			6606	61.00	62.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		looking unit except for minor ground sections where shallow-angled fractures were intersected; trace-1% disseminated and "bleby" pyrite throughout (N.B. blotchy nature of unit is a hydrothermal overprint) ; 1-2% (0.1-0.2mm diameter) biotite; at 61.00m - hairline fracture with chlorite; approx. 15 deg. to CA with crosscutting slickensides approx. 55 deg. to CA; at 68.89m - hairline fracture with chlorite; approx. 30 deg. to CA with crosscutting slickensides at approx. 75 deg. to CA; at 69.14m - 4cm long bull quartz "sweat"; at 69.97m - 3cm long bull quartz "sweat"; at 83.25m - hairline fracture with chlorite. approx. 50 deg. to CA	6607	62.00	63.00	1.00	0.
			6608	63.00	64.00	1.00	0.
			6609	64.00	65.00	1.00	0.
			6610	65.00	66.00	1.00	0.
			6611	66.00	67.00	1.00	0.
			6612	67.00	68.00	1.00	0.
			6613	68.00	69.00	1.00	0.
			6614	69.00	70.00	1.00	0.
			6615	70.00	71.00	1.00	0.
			6616	71.00	72.00	1.00	0.
			6617	72.00	73.00	1.00	0.
			6618	73.00	74.00	1.00	0.
			6619	74.00	75.00	1.00	0.
			6620	75.00	76.00	1.00	0.
			6621	76.00	77.00	1.00	0.
			6622	77.00	78.00	1.00	0.
			6623	78.00	79.00	1.00	0.
			6624	79.00	80.00	1.00	0.
			6625	80.00	81.00	1.00	0.
			6626	81.00	82.00	1.00	0.
			6627	82.00	83.00	1.00	0.
			6628	83.00	84.00	1.00	0.
			6629	84.00	84.70	0.70	0.
84.70 -	91.68	Feldspar Porphyry - grey-salmon-pink, fine-grained, massive-looking with approx. 2-4% (1mm diameter) irregular shaped feldspar shards; salmon-pink sections due to probable iron-staining of feldspars; trace-1% very finely disseminated pyrite. minor brittle fractures with carbonate-quartz (less 0.5cm wide) ; upper contact ground; lower contact sharp approx. 40 deg. to CA; salmon-pink "hematized" patches at 84.95-85.45m; 85.70-85.94m; 86.90-87.65m; 89.00-90.65m; carbonate- quartz fractures generally trend approx. 25 deg. to CA	6630	84.70	86.00	1.30	0.
			6631	86.00	87.00	1.00	0.
			6632	87.00	88.00	1.00	0.
			6633	88.00	89.00	1.00	0.
			6634	89.00	90.00	1.00	0.
			6635	90.00	91.00	1.00	0.
91.68 -	91.72	Mafic Flow - fine-grained; grey-green, massive; trace very finely disseminated pyrite. moderately carbonatized; lower contact sharp approx. 40 deg. to CA					
91.72 -	93.12	Feldspar Porphyry - (as above) ; grey-salmon-pink; massive looking with approx. 2-5% (1-2mm	6636	91.00	92.00	1.00	0.
			6637	92.00	93.12	1.12	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		diameter) irregular-shaped feldspar shards and chloritized pseudomorphs. salmon-pink coloured sections probably represent hematized zones; trace very finely disseminated pyrite; lower contact sharp approx. 70 deg. to CA; at 92.66m - 0.5cm wide quartz-carbonate-chlorite vein; approx. 45 deg. to CA; at 92.80m - hairline fracture approx. 10 deg. to CA with weak indications of slickensides					
93.12	129.13	Mafic Flow	6638	93.12	94.00	0.88	10.
		- dark green, very fine to fine-grained; pillowed?; trace very finely disseminated pyrite; minor scattered brittle fractures; scattered weakly epidotized (0.5-1.0cm wide) zones suggest pillow selvages; dark green colour suggests chloritization; at 96.50m - 2cm wide quartz-carbonate vein; approx; 60 deg. to CA; at 94.05m - 1cm wide quartz-carbonate-epidote vein approx. 25 deg. to CA; at 94.63m - hairline fracture with carbonate-hematite-quartz. approx. 45 deg. to CA; at 107.55m - hairline fractures with carbonate; early set at 45 deg. to CA and late set at approx. 15 deg. to CA in opposite sense	6639	94.00	95.00	1.00	20.
			6640	111.00	112.00	1.00	10.
			6641	112.00	113.00	1.00	10.
			6642	113.00	114.00	1.00	0.
			6643	114.00	115.30	1.30	40.
			6644	123.00	124.00	1.00	20.
			6645	127.00	128.00	1.00	0.
			6646	128.00	129.00	1.00	0.
111.00	115.30	- flow becomes increasingly altered; pronounced sections of epidote; increased chloritization; weak to moderate carbonatization along fractures; increased sulphidization associated with epidotized zones (1-2% pyrite) ; weak development of foliation approx. 45 deg. to CA; minor scattered quartz-carbonate-hematite veinlets/fractures approx. 35-45 deg. to CA; at 112.40m - hairline fracture approx. 15 deg. to CA; at 117.29m - 0.3cm wide quartz vein; contacts approx; 35 deg. to CA; at 117.63m - 0.3cm wide quartz vein; contacts approx. 30 deg; to CA; at 123.26m - 4.0cm wide quartz vein; contacts approx. 80 deg. to CA					
129.00	129.13	- contact zone; chlorite schist; foliation approx. 65 deg. to CA with wisps of white carbonate and pink ankerite; trace disseminated pyrite					
129.13	131.74	Feldspar Porphyry	6647	129.00	130.00	1.00	0.
		- as above; light grey-salmon-pink; fine-grained with 5-10% (0.1cm diameter) irregular shaped feldspar shards; salmon-pink rich matrix sections due to weak to moderate hematization; trace very finely disseminated pyrite; massive looking with 12 brittle fractures with white carbonate; fractures commonly 20 to 30 deg. to Ca; upper contact 65 deg. to CA; lower contact approx. 45 deg. to CA	6648	130.00	131.00	1.00	0.
131.74	132.00	Mafic Flow	6649	131.00	132.00	1.00	10.
		- dark green, strongly epidotized; 2-5% "bleby" pyrite; weakly carbonatized					
132.00	132.72	Feldspar Porphyry					
		- as above; salmon-pink (hematized) with 5-7% (0.1cm diameter) irregular-					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		shaped buff-coloured feldspar shards; massive looking with 1% brittle fractures generally trending approx. 70 deg. to CA; contacts sharp; upper contact approx; 55 deg. to CA; lower contact approx. 60 deg. to CA					
132.72	145.70	Mafic Flow	6650	132.00	133.00	1.00	0.
		- green to dark green; fine-grained; pillowed? with weakly developed epidotized pillow selvages at approx. 20-40cm spaced intervals; pillow margins exhibit weak evidence of vesiculation; trace-1% disseminated and "bleby" pyrite along pillow margins; trace disseminated pyrite along fractures cutting pillows	6651	133.00	134.50	1.50	0.
			6652	134.50	136.00	1.50	0.
133.90	134.25	- zone of increased epidotization; 1cm quartz-carbonate veins at 133.90m and 134.06m; contacts of veins approx. 70 deg. to CA; at 138.80m - 2cm wide quartz-carbonate-ankerite-epidote vein; contacts approx. 75 deg. to CA					
139.06	139.74	- zone of increased epidotization (as above)					
144.00	144.40	- zone of minor scattered hairline fractures approx. 55-60 deg. to CA with hematite along fracture planes					
145.70	146.10	Mafic Intrusive					
		- grey to dark grey, fine to medium-grained; massive looking; biotitic (20-30%) with occasional scattering (.2-.3cm) biotite book; contacts sharp approx. 60 deg. to CA					
146.10	160.38	Mafic Flow	6653	148.00	149.00	1.00	0.
		- dark green, fine-grained, pillowed? with weakly developed 1-3cm wide pillow selvages with epidote development and trace-1% disseminated and "blebby" pyrite; minor scattered crosscutting brittle fractures normally at approx; 30-40 deg. to CA and crosscutting fractures at approx. 15 deg. to CA; N.B. - low angle fractures are later than higher angle set	6654	149.00	150.00	1.00	0.
			6655	159.00	160.00	1.00	0.
148.48	149.04	- zone of increased epidotization					
149.40	149.90	- zone of increased epidotization with a 1cm wide carbonate-quartz vein at 149.90m; contacts approx. 80 deg. to CA					
		158.25 - 1cm wide carbonate-quartz vein; approx. 70 deg. to CA					
160.00	160.38	- fractures contain hematite					
160.38	160.72	Feldspar Porphyry					
		- as above; salmon pink (hematized) ; fine-grained with 5-7% (.1cm) irregular-shaped feldspar shards and pseudomorphs (chloritized) ; trace finely disseminated pyrite; contacts sharp approx. 60 deg. to CA; minor brittle fractures (white carbonate) at large angles to CA (60-80 deg.)					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
160.72	165.72	Mafic Flow	6656	160.00	161.00	1.00	20.
		- dark green, fine-grained, pillowed with weakly developed 1-3cm wide pillow margins; trace very finely disseminated pyrite along selvages; weak development of hairline fractures at approx. 70 deg. to CA; at 161.35m - 2cm wide carbonate-hematite band; approx. 70 deg. to CA; trace pyrite	6657	161.00	162.00	1.00	0.
			6658	162.00	163.00	1.00	40.
			6659	163.00	164.00	1.00	0.
			6660	164.00	165.00	1.00	10.
165.60	165.72	- contact zone; increased epidotization; moderate carbonatization	6661	165.00	165.72	0.72	0.
165.72	166.69	Feldspar Porphyry	6662	165.72	166.69	0.97	0.
		- as above; salmon-pink (hematized) ; fine-grained massive-looking with 20-40% (less 0.1mm) buff feldspar shards and chloritized pseudomorphs; contacts sharp approx. 65 deg. to CA; trace finely disseminated pyrite; at 165.88m - 2cm wide quartz-carbonate vein; approx. 65 deg. to CA; at 166.05m - 1cm wide quartz-carbonate-hematite vein; approx. 20 deg. to CA; at 166.30m - 0.5cm wide carbonate-quartz-chlorite vein; approx. 25 deg. to CA					
166.69	172.95	Mafic Flow	6663	166.69	168.00	1.31	10.
		- dark green, fine-grained; pillowed with weakly developed 1-3cm pillow selvages with epidote development; trace finely disseminated pyrite					
166.69	167.00	- contact zone of increased epidotization and minor quartz veining					
172.75	172.95	- contact zone of increased epidotization and carbonate-quartz banding conformable to contact; trace-1% disseminated pyrite					
172.95	173.18	Feldspar Porphyry					
		- as above; grey-salmon-pink (hematized) ; fine-grained; 5-10% (0.1cm) buff-coloured irregular-shaped feldspar shards; trace very finely disseminated pyrite; contacts sharp approx. 80 deg. to CA; minor hairline fractures with carbonate approx. 45 deg. to CA					
173.18	194.93	Mafic Flow	6664	172.50	173.50	1.00	0.
		- dark green; fine-grained; pillowed with weakly developed pillow selvages characterized by 1-3cm wide moderate epidotization and vesiculation of pillow margins; trace finely disseminated pyrite in selvages; unit weakly fractured as above with 2 sets of fractures approx. 30-40 deg. and 65-80 deg; fractures are hairline and commonly are coated with white carbonate; at 179.95m - 2cm wide carbonate-quartz-chlorite-hematite band; approx. 70 deg. to CA; trace-1% pyrite	6665	182.00	183.00	1.00	20.
			6666	183.00	184.00	1.00	0.
			6667	184.00	185.00	1.00	0.
			6668	185.00	186.00	1.00	0.
			6669	186.00	187.00	1.00	10.
			66780	187.00	187.80	0.80	40.
			6671	187.80	188.34	0.54	30.
182.50	183.10	- zone of increased epidotization (pillow margin)					
185.30	185.50	- zone of increased epidotization (pillow margin)					
		185.61 - 1cm wide quartz-carbonate-ankerite band; approx. 70 deg. to CA					
		185.90 - 1cm wide quartz-ankerite band; approx. 75 deg. to CA					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
187.80	188.34	Fault Gouge	6672	188.34	189.00	0.66	20.
			6673	189.00	190.00	1.00	0.
190.50	191.50	ground/broken core	6674	190.00	191.00	1.00	0.
			6675	191.00	192.00	1.00	0.
192.00	194.93	slight increase in hairline fractures with carbonate approx. 65-75 deg. to CA - minor hematite-limonite along some of the fractures	6676	192.00	193.00	1.00	0.
			6677	193.00	194.00	1.00	0.
			6678	194.00	194.93	0.93	20.
194.93	202.45	Feldspar Porphyry - grey-salmon-pink (hematized) ; fine-grained; massive-looking with 10-15% (0.1cm diameter) irregular-shaped feldspar phenocrysts; approx. 30% of dyke is hematized; trace finely disseminated pyrite; minor brittle fractures with carbonate + chlorite + hematite + trace pyrite averaging approx. 60-70 deg. to CA; contacts sharp approx. 50 deg. to CA	6679	194.93	196.00	1.07	10.
			6680	196.00	197.00	1.00	0.
			6681	197.00	198.00	1.00	0.
			6682	198.00	199.00	1.00	0.
			6683	199.00	200.00	1.00	0.
			6684	200.00	201.00	1.00	0.
			6685	201.00	202.00	1.00	0.
202.45	207.40	Mafic Flow - dark green, fine-grained, pillowed? with weak development of pillow selvages. weak epidotization along selvages; minor brittle fractures with carbonate + hematite approx. 45 deg. to CA and approx. 20 deg. to CA; trace-1% finely disseminated pyrite	6686	202.00	203.00	1.00	10.
			6687	203.00	204.00	1.00	0.
			6688	204.00	205.00	1.00	0.
			6689	205.00	206.00	1.00	30.
			6690	206.00	207.00	1.00	0.
207.40	207.68	Feldspar Porphyry - salmon-pink (hematized) ; fine-grained, massive-looking with 3-5% (0.1cm diameter) irregular-shaped feldspar shards; trace very finely disseminated pyrite; contacts sharp approx. 20 deg. to CA					
207.68	210.76	Mafic Flow - dark green, fine-grained; pillowed?; very weak epidotization along pillow rims; minor 2-3% (0.1-0.2cm diameter) epidote clots (dalmationitic appearance) ; minor scattered hairline fractures + carbonate + hematite and large angles to CA (i.e. approx. 45-75 deg. to CA) ; trace finely disseminated pyrite; after approx. 210.00m section becomes dalmationitic with the development of 2-4% (0.1-0.2cm) epidote clots	6691	207.00	208.00	1.00	0.
			6700	208.00	209.00	1.00	0.
			6692	209.00	210.00	1.00	100.
210.76	229.40	Porphyritic Mafic Intrusive - grey to salmon-pink (hematized) ; fine-grained massive-looking with	6693	210.00	211.00	1.00	0.
			6694	211.00	212.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		variable (5-10%) buff-coloured irregular-shaped feldspar shards and chloritic pseudomorphs; brittly fractured with minor quartz + carbonate + hematite + pyrite stringers; upper contact sharp approx. 55 deg. to CA	6695	212.00	213.00	1.00	0.
			6696	213.00	214.00	1.00	0.
210.76	212.10	- pronounced salmon-pink colour; moderately to strongly hematized; minor chlorite; trace-1% disseminated pyrite; minor scattered hairline fractures (approx. 45 deg. to CA) with carbonate + hematite; lower contact pronounced but irregular; chilled margin	6697	214.00	215.00	1.00	0.
212.10	217.00	- mottled dark green to yellow-green section characterized by elongated epidotized feldspar laths (0.2-0.5cm long) exhibiting a preferred orientation (approx. 0-10 deg. to CA); the preferred orientation of the feldspar pseudomorphs may represent a flow feature; trace finely disseminated pyrite. lower contact arbitrary	6698	215.00	216.00	1.00	10.
			6699	216.00	217.00	1.00	0.
217.00	220.30	- medium grey, fine-grained, phase with 5-7cm wide "apophyses" of mottled green to yellow-green (212.10-217.00m) material; no apparent flow structure. the "apophyses" may represent differential cooling; trace-1% pyrite "blebs" and disseminations; lower contact gradational; at 220.00m - 10cm wide strongly epidotized section; gradational contacts	7501	217.00	218.00	1.00	0.
			7502	218.00	219.00	1.00	0.
			7503	219.00	220.00	1.00	10.
220.30	225.00	- light grey, fine-grained phase with 8-12% (0.3-0.5cm) buff to light green feldspar pseudomorphs (epidotized) showing a weak alignment subparallel to CA. pseudomorph edges weakly hematized; trace disseminated pyrite	7504	220.00	221.00	1.00	0.
			7505	221.00	222.00	1.00	0.
			7506	222.00	223.00	1.00	0.
		221.95 - 2cm wide carbonate + hematite band approx. 40 deg. to CA					
		222.00 - 10cm wide strongly epidotized section; gradational contacts; minor carbonate + hematite along fractures	7507	223.00	224.00	1.00	0.
			7508	224.00	225.00	1.00	0.
225.00	228.30	- as 220.30-225.00m only moderate salmon-pink hematitic alteration; 10-15% buff coloured feldspar shards weakly aligned subparallel to CA	7509	225.00	226.00	1.00	0.
			7510	226.00	227.00	1.00	10.
225.00	226.20	- zone of quartz-carbonate-epidote-hematite brecciation; approx. 10-15 deg. to CA with epidote alteration halo; trace-1% disseminated pyrite in brecciated zone					
		227.08 - 1cm wide quartz-carbonate-hematite band; approx. 55 deg. to CA					
30	229.40	- grey coloured zone with little/no feldspar phenocrysts; upper contact gradational; zone may form a chilled margin; lower contact sharp approx. 45 deg. to CA	7511	227.00	228.00	1.00	0.

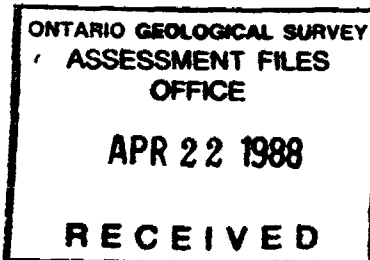
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		228.60 - 6cm wide zone of intense epidotization					
229.40	230.37	Mafic Flow - dark green, fine-grained; 1% "bleby" pyrite; minor scattered hairline fractures with quartz-carbonate + pyrite + hematite generally at 45-50 deg. to CA					
230.37	234.00	Feldspar Porphyry - grey, fine-grained with minor (less 2%) feldspar phenocrysts; weak epidotization of phenocrysts; moderate brittle fracture (weak brecciation) with carbonate-quartz-hematite (approx. 2-3%); generally random orientation; trace finely disseminated pyrite; contacts sharp; upper contact approx. 20 deg. to CA with 10cm wide zone of brittle fracture parallel to contact with 2-4% "bleby" pyrite; lower contact approx. 30 deg. to CA					
234.00	245.90	Mafic Flow - dark green, fine-grained; pillowed? with weak evidence for pillow rims. brittle fractures with trace-1% disseminated pyrite; fractures normally at 45-60 deg. to CA; after approx. 240.00m pillow rims with weak epidotization becomes more apparent					

Hole No.	PP-2	Northing	Grid Orient	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	December 15, 1987	Logged by	P. Huxhold
Property	Pinecone Point	Easting	Grid Azim.	0.0	- 45	036		150.0	- 42			Finished	December 18, 1987	Checked by	P. Huxhold
Section		Elevation	Length (M)	150.00								Drill Co.	Falcon	Core	RR
Claim No.		Survey N.	Dip-Collar	-45.00NE								Drill No.		Comments:	
Target	Main Zone	Survey E.	Comp Bearing	36.00								Drill For.			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au
							ppb

SUMMARY

0.00	3.20	Casing
3.20	12.30	Mafic Flow
12.30	14.80	Porphyritic Mafic Intrusive
14.80	47.15	Mafic Flow
47.15	48.60	Feldspar Porphyry
48.60	61.59	Mafic Flow
61.59	61.86	Feldspar Porphyry
61.86	74.40	Mafic Flow
74.40	76.70	Porphyritic Mafic Intrusive
76.70	81.80	Mafic Flow
81.80	83.7	Feldspar Porphyry
83.70	113.46	Mafic Flow



ST. JOE CANADA

PROPERTY - Pinecone Point

HOLE - PP-2

PAGE # 2

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
113.46	118.85	Porphyritic Mafic Intrusive					
118.85	123.50	Mafic Flow					
123.50	123.90	Mafic Intrusive					
123.90	127.06	Mafic Flow					
127.06	148.90	Porphyritic Mafic Intrusive					
148.90	150.00	Mafic Flow					
150.00	150.00	End of Hole					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
0.00	3.20	Casing					
3.20	12.30	Mafic Flow					
		- dark green, fine-grained; pillowed with weak development of pillow selvages. 1-2cm wide zones of epidotization + trace-1% pyrite along pillow rims; minor scattered hairline fractures with epidote + pyrite approx. 30-40 deg. to CA	7520	11.00	12.00	1.00	0.
12.30	14.80	Porphyritic Mafic Intrusive					
		- grey to light grey; fine to medium-grained; massive; trace-1% disseminated pyrite; weakly chloritic; moderate to strong pervasive carbonatization from approx. 11.50-15.00m; chilled fine-grained margins from 12.30-12.70m and 14.00 -14.80m; upper contact ground; lower contact approx. 40 deg. to CA; medium-grained porphyritic centre contains scattered 0.1cm diameter quartz porphyroblasts	7521	12.00	13.00	1.00	0.
			7522	13.00	14.00	1.00	0.
14.80	47.15	Mafic Flow					
		- dark green, fine-grained; pillowed with weak development of pillow selvages. selvages approx. 1-2cm wide with chloritization and trace-1% disseminated pyrite; minor scattered hairline fractures with epidote + carbonate generally at approx. 25-30 deg. to CA and a 2nd crosscutting fracture set at approx. 45 deg. to CA; the shallower set of fractures (25-30 deg. to CA) appear to post-date the earlier system	7523	14.00	15.00	1.00	0.
17.60 -	18.00	- zone of brittle cross fractures with chlorite, carbonate and hematite	7524	17.00	18.00	1.00	10.
	21.45	- 0.2cm wide carbonate vein; approx. 30 deg. to CA with 3cm wide zone of epidotization; at 21.80 - carbonate-quartz-pyrite vein; 0.3cm wide; approx; 35 deg. to CA; at 23.70m - 1cm wide carbonate-quartz-hematite veins approx; 20 deg. to CA; at 28.00m - hairline fracture approx. 10 deg. to CA; at 28.56m - 2cm wide carbonate-quartz-sericite band; approx. 60 deg. to CA; at 30.00m - 1cm wide carbonate-quartz-chlorite-pyrite-hematite band; approx. 45 deg. to CA; at 33.80m - 0.5cm wide carbonate-epidote-chlorite vein (5 deg. to CA) crosscuts					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		earlier 20 deg. to Ca epidotized hairline fractures					
35.00	44.00	- flow becomes increasingly chloritized (darker green colour) ; most intensive chloritization at about 42.00m; at 41.27m - 1cm wide quartz-chlorite-carbonate vein; approx. 25 deg. to CA	7525	40.00	41.00	1.00	0.
			7526	41.00	42.00	1.00	0.
			7527	42.00	43.00	1.00	0.
			7528	43.00	44.00	1.00	0.
			7529	44.00	45.00	1.00	0.
			7530	45.00	46.00	1.00	20.
46.30	47.15	Contact Zone - zone of increased pervasive epidotization and weak matrix carbonatization. increase in hairline fractures approx. 75-80 deg. to Ca with carbonate (approx; 5%) ; 1-2% "bleby" and cube pyrite disseminated; at 46.40m - 14.0cm wide quartz- carbonate-pyrite-epidote-chlorite-hematite vein; contacts approx. 80 deg. to CA; vein is zoned with quartz-carbonate core and epidote-pyrite-chalcopyrite- arsenopyrite?; chlorite margins	7531	46.00	47.00	1.00	50.
47.15	48.60	Feldspar Porphyry - grey-green, fine to medium-grained; massive-looking; strongly chloritized with 80-90% chlorite flakes; moderate to strong carbonatization; 2-4% disseminated "bleby" and euhedral pyrite; trace hematite around porphyroblasts. 1% (0.1cm) feldspar porphyroblasts; porphyry is weakly fractured (brittle) , generally at 60-70 deg. to CA with carbonate; upper contact sharp approx. 75 deg. to CA; lower contact less distinct approx. 80 deg. to CA; at 47.28m - 3cm with quartz-carbonate-pyrite band; contacts approx. 80 deg. to CA	7532	47.00	48.00	1.00	0.
48.60	61.59	Mafic Flow - dark green, fine-grained, pillowed with weakly developed pillow selvages characterized by the presence of 1-2cm wide zones of epidotization + disseminated pyrite; pyrite tenor trace-1%					
48.60	49.20	Contact Zone - (as above; 46.30-47.15m) ; zone of increased epidotization, weak to moderate carbonatization which decreases in intensity down hole; scattered 0.1-0.2cm wide bands of carbonate (approx. 60-70 deg. to CA) near upper contact; 1-2% "bleby" pyrite disseminated; weak hematization	7533	48.00	49.00	1.00	0.
50.00	50.40	- zone of increased epidotization and minor quartz-carbonate-epidote veining.	7534	49.00	50.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		at 50.07m - 2cm wide carbonate-quartz-epidote veins; contacts approx. 55 deg; to CA; at 50.38m - 2cm wide carbonate-quartz-epidote vein; contacts approx. 55 deg. to CA	7535	50.00	51.00	1.00	0.
			7536	51.00	52.00	1.00	0.
55.40	56.00	- zone of increased epidotization; minor hairline fractures with hematite. approx. 65 deg. to CA; trace finely disseminated pyrite; at 56.90m - 1cm wide quartz-carbonate-epidote veins; approx. 20 deg. to CA					
59.80	60.20	- zone of increased epidotization with 5% (0.5-1.0cm) quartz-carbonate-pyrite stringers at approx. 50 deg. to CA					
			7537	60.00	61.00	1.00	40.
61.59	61.86	Feldspar Porphyry - salmon-pink (weakly hematized) ; fine-grained with minor discrete pink feldspar phenocrysts; 1-2% finely disseminated pyrite; 2-4% chlorite flakes. minor hairline fractures (1-3%) with carbonate approx. 65 deg. to CA; contacts sharp approx. 70 deg. to CA; moderately to strongly carbonatized					
61.86	74.40	Mafic Flow - dark green, fine-grained, pillowed with weak development of pillow selvages due to presence of epidote and trace-1% disseminated pyrite on pillow rims. some pillow margins exhibit vesiculation features					
	61.86 - 62.50	- zone of increased brittle fracture; 2 fracture sets distinguishable; approx; 70 deg. to CA and a second crosscutting set at 40 deg. to CA (later set) ; at 72.72m - 1cm wide quartz-carbonate-epidote vein; approx. 10 deg. to CA	7538	61.00	62.00	1.00	0.
			7539	62.00	63.00	1.00	0.
			7540	73.00	74.00	1.00	10.
74.40	76.70	Porphyritic Mafic Intrusive - (as 12.00-14.50m) ; grey to dark grey-grey-green; fine-grained; unit appears mafic and may represent a phase of the mafic intrusive; this unit is similar in appearance to the mafic flow with similar grain size; margins of unit appear chilled with little/no development of feldspar phenocrysts; core of unit contains sections with 5-10% weakly epidotized feldspar laths (randomly oriented) approx. 0.1-0.3cm long with gradational contacts; upper contact approx. 65 deg. to CA; lower contact approx. 80 deg. to CA; (N.B. similar mafic fyke at bottom of PP-1) ; trace-1% finely disseminated pyrite					
	74.40 - 74.70	- chilled margin; 5-7% (0.1-0.3cm) epidote "blotches"					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
	74.70 - 75.03	porphyritic section	7541	74.00	75.00	1.00	0.
	75.03 - 75.68	non-porphyritic section with a 25cm wide quartz-carbonate-epidote vein at 75.28m; contacts approx. 45 deg. to CA					
	75.68 - 76.18	porphyritic section	7542	75.00	76.00	1.00	60.
	76.18 - 76.70	chilled margin (non-porphyritic) ; minor epidote "blotches"					
76.70	81.80	Mafic Flow - dark green, fine-grained, pillowed; weak development of pillow selvages and 1-2cm wide zones of epidotization along pillow margins; trace-1% finely disseminated pyrite are pillow margins	7543	76.00	77.00	1.00	0.
			7544	77.00	78.00	1.00	20.
			7545	80.00	81.00	1.00	0.
81.80	83.70	Feldspar Porphyry - grey to light grey, fine-grained, massive-looking with minor (1-2%) 0.1cm diameter irregular-shaped feldspar phenocrysts; weakly hematized; moderately chloritized; moderate to strong pervasive carbonatization; trace finely disseminated pyrite; minor scattered less 0.5cm carbonate-quartz fractures at approx. 45 deg. and 65 deg. to CA; 2cm wide quartz-carbonate-chlorite-pyrite vein along upper contact; upper contact approx. 60 deg. to CA; lower contact approx. 50 deg. to CA; lower contact moderately carbonatized approx. 20cm into mafic flow	7546	81.00	82.00	1.00	0.
			7547	82.00	83.00	1.00	0.
83.70	113.46	Mafic Flow - dark green, fine-grained, pillowed; weak development of pillow selvages with 1cm wide zones of epidotization commonly along pillow margins; trace finely disseminated pyrite along margins of pillows; at 109.20m - pyrite band; 50% pyrite blebs; 1cm wide; approx. 85 deg. to CA; at 109.38m - pyrite band; 60% pyrite blebs; 1cm wide; approx. 80 deg. to CA	7548	83.00	84.00	1.00	0.
			7549	84.00	85.00	1.00	0.
	106.50 - 113.46	slight increase in intensity of epidotization	7550	108.00	109.00	1.00	10.
			7551	109.00	110.00	1.00	340.
			7552	110.00	111.00	1.00	0.
			7553	111.00	112.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
113.46	118.85	Porphyritic Mafic Intrusive - grey; fine to medium-grained; massive-looking with chilled margins at 113.46-114.20m and 118.70-118.85m; trace-1% "bleby" disseminated pyrite; 3-6% (0.1-0.2cm) irregular-shaped feldspar phenocrysts in a grey fine to medium-grained groundmass; phenocrysts randomly oriented; contacts sharp; upper contact approx. 40 deg. to CA with a 10cm wide zone of increased sulphidization (2-3%); lower contact approx. 25 deg. to Ca with a 3.0cm wide conformable quartz vein; unit is moderate pervasively carbonatized; minor hairline fractures (50-60 deg. to CA) with carbonate	7554	112.00	113.00	1.00	0.
			7555	113.00	114.00	1.00	0.
			7556	114.00	115.00	1.00	30.
			7557	115.00	116.00	1.00	10.
			7558	116.00	117.00	1.00	30.
			7559	117.00	118.00	1.00	10.
118.85	123.50	Mafic Flow - dark green, fine-grained; pillowed?; weak evidence for presence of minor epidotization along pillow margins; trace-1% disseminated pyrite; unit is weak to moderately fractured with epidote alteration halos along hairline fracture; pervasive carbonatization to about 120.00m; after 120.00m carbonatization along fractures; two apparent fracture sets; early at 45-50 deg. to CA and late 5-15 deg. to CA	7560	118.00	119.00	1.00	10.
			7561	119.00	120.00	1.00	0.
			7562	120.00	121.00	1.00	0.
			7563	121.00	122.00	1.00	0.
			7564	122.00	123.00	1.00	0.
	123.00 - 123.50	- contact zone; ground; abundant carbonate veining/stockwork (20%); 1% pyrite. strongly chloritized					
123.50	123.90	Mafic Intrusive - grey-green; fine to medium-grained; chloritic; trace-1% disseminated pyrite. strong pervasive carbonatization; upper contact ground; lower contact approx; 65 deg. to CA					
123.90	127.06	Mafic Flow - dark green, fine-grained, pillowed?; trace disseminated pyrite					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
123.90	126.00	- zone of weak to moderate alteration; chloritized; carbonatized along fractures; moderately to strongly fractured (one set approx. 45 deg. to CA. late set approx. 5-10 deg. to CA)	7565	123.00	124.00	1.00	0.
			7566	124.00	125.00	1.00	0.
			7567	125.00	126.00	1.00	0.
123.90	124.10	- dark grey-black weakly silicified zone					
124.10	124.35	- zone of intense pervasive carbonatization					
124.35	124.37	- zone of brittle fracture (random) with carbonate-pyrite					
124.37	125.10	- zone of intense chloritization which minor 0.2cm wide quartz-carbonate-pyrite stringers approx. 45 deg. to CA					
126.80	127.06	Contact Zone - moderate pervasive carbonatization	7568	126.00	127.00	1.00	0.
127.06	148.90	Porphyritic Mafic Intrusive - grey, fine to medium-grained; massive-looking; 5-10% chloritic-biotite books. 5-7% (0.1-0.2cm) irregular-shaped and lath-shaped feldspar phenocrysts; trace- 1% "bleby" pyrite disseminated; units become increasingly darker grey with depth (i.e. after approx. 130.30m); colour change due to increased chloritization; moderate to strong pervasive carbonatization; minor hairline brittle fractures at high angles to CA (50-85 deg.) with carbonate; lower contact approx. 35 deg. to CA	7569	127.00	128.00	1.00	0.
			7570	128.00	129.00	1.00	0.
			7591	129.00	130.00	1.00	0.
			7592	130.00	131.00	1.00	0.
			7593	131.00	132.00	1.00	0.
			7594	132.00	133.00	1.00	0.
			7571	133.00	134.00	1.00	0.
			7572	134.00	135.00	1.00	0.
135.45	136.00	- moderately silicified zone (1-2% disseminated pyrite); gradational contacts	7573	135.00	136.00	1.00	0.
			7574	136.00	137.00	1.00	0.
137.50	143.00	- moderately silicified zone (trace-1% disseminated pyrite); gradational contacts; no carbonatization; at 138.35m - 3cm wide pyrite-carbonate band. approx. 70 deg. to CA	7575	137.00	138.00	1.00	0.
			7576	138.00	139.00	1.00	0.
			7577	139.00	140.00	1.00	0.

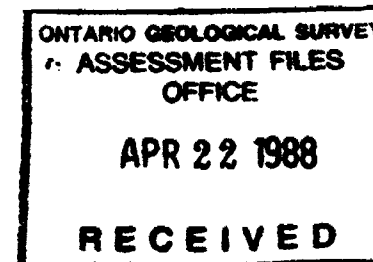
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
			7578	140.00	141.00	1.00	0.
			7579	141.00	142.00	1.00	0.
			7580	142.00	143.00	1.00	0.
		143.00 - 144.20 - moderate pervasive carbonatization; contacts gradational; at 148.23m - 3cm wide silicified zone	7581	143.00	144.00	1.00	0.
			7582	144.00	145.00	1.00	0.
			7583	145.00	146.00	1.00	0.
48.90	150.00	Mafic Flow					
		- dark green, fine-grained, pillowed; trace disseminated pyrite					
50.00	150.00	End of Hole					

Hole No.	PP-3	Northing	Grid Orient	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	January 12, 1988	Logged by	Lynn Broughton
Property	Pinecone Point	Easting	Grid Azim.	0.0	- 45	036		140.0	- 48			Finished	January 14, 1988	Checked by	P. Muxhold
Section		Elevation	Length (M)	139.98								Drill Co.	Falcon Drilling	Core	BQ
Claim No.		Survey N.	Dip-Collar	-45.00								Drill No.		Comments:	
Target		Survey E.	Comp Bearing	36.00								Drill For.			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au
							ppb

SUMMARY

0.00 4.60 Casing
 4.60 139.98 Mafic Intrusive
 139.98 139.98 End of Hole



FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
0.00	4.60	Casing					
4.60	139.98	Mafic Intrusive					
		- dark grey-green; medium-grained (approx. 1mm diameter) ; massive; 5-10% fine-grained biotite; minor (<<1%) scattered hairline fractures at 0-10 deg; to CA; fractures contain dark to bright green chlorite + carbonate and have 0.4-4m wide darker grey-green, speckled halos containing 15-20%, 0.5-1mm chlorite (possibly altered biotite) grains; trace fine-grained disseminated pyrite; at 5.91m - a 0.5-4cm wide very coarse-grained (up to 1.2cm) pegmatitic texture; similar composition; nil pyrite; at 8.87m - hairline fracture with chlorite at approx. 40 deg. to CA with crosscutting slickensides at approx; 55 deg. to CA; at 14.80m - hairline fracture with chlorite at approx. 20 deg; to CA with crosscutting slickensides at approx. 75 deg. to CA					
16.19	19.22	- increase in brittle fracturing to approx. 3%; all chlorite + carbonate-filled and with speckled halos	7660	16.40	17.40	1.00	0.
			7661	17.40	18.40	1.00	0.
16.75	16.78	- medium-grained felsic dyke with approx. 1mm lath-like feldspar grains. contains at approx. 70 deg. to CA; very weakly chloritized; fine-grained chloritic "baked" zone 4cm above and 8cm below dyke; trace pyrite; at 19.22m - slight decrease in fracturing to approx. 1-2%; at 20.68m - hairline fracture with chlorite-carbonate at approx. 45 deg. to CA with crosscutting slickensides at approx. 65 deg. to CA					
21.00	24.80	- gradual increase in chloritization of matrix; at 24.38m - hairline fracture at approx. 35 deg. to CA; crosscutting slickensides at approx. 55 deg. to CA. at 24.80m - weakly altered; slightly lighter dark to medium grey-green (white when dry) ; medium-grained (approx. 1mm diameter) ; massive; approx. 20% fine-grained to medium-grained biotite; 1-2% hairline fractures with chlorite (no carbonate) , same "speckled" halos; weak matrix chloritization; weak sericitization of plagioclase; trace fine-grained disseminated pyrite; at 24.59 - 2cm wide quartz vein with minor carbonate, chlorite at approx. 35 deg. to CA; trace fine-grained pyrite at contacts; 3cm wide speckled chlorite halo on either side; at 25.40m - hairline fracture at approx. 20 deg. to CA; cross-cutting slickensides at approx. 50 deg. to CA; at 25.82m - 1cm wide quartz vein with minor chlorite at approx. 25 deg. to CA	7662	18.40	19.40	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
			7663	24.00	25.00	1.00	0.
			7664	25.00	26.00	1.00	0.
			7665	26.00	27.00	1.00	0.
27.15 -	27.50	- broken rock due to drilling subparallel to a fracture system; crosscutting slickensides at 55-60 deg. to CA; some pieces contain streaky quartz up to 1.5 cm wide; trace pyrite; at approx. 29.00m - no change in abundance of fractures but fewer fractures have the dark speckled halos; still predominantly chlorite-filled; gradational change; at 35.66m - hairline fracture at approx. 35 deg. to CA; crosscutting slickensides at approx. 65 deg. to CA; at 36.90m - 1cm wide quartz-chlorite vein at approx. 45 deg. to CA; 15% chlorite; crosscutting slickensides at approx. 55 deg. to CA; nil pyrite					
			7666	27.00	28.00	1.00	0.
			7667	36.50	37.50	1.00	0.
			7668	37.50	39.00	1.50	0.
39.60 -	39.82	- abundant chlorite-filled fractures with overlapping "speckled" halos directly above a 6cm wide chloritized pegmatitic (up to 1.3cm lath-like feldspar) zone; trace pyrite; irregular but abrupt change in grain size from pegmatitic to medium-grained, doesn't appear to be fracture-controlled at lower contact. at 40.58m - hairline fracture at approx. 25 deg. to Ca; crosscutting slickensides at approx. 75 deg. to CA; at 41.12m - 7cm wide weakly chloritized pegmatitic zone at 70-90 deg. to CA; cut by a hairline fracture at approx. 25 deg. to CA with a narrow "speckled" halo; trace pyrite; at 41.28m - 4cm wide irregular pegmatitic zone; fracture at approx. 25 deg. to CA; at 41.49m - 4cm wide irregular pegmatitic zone at 60-85 deg. to CA; cut by hairline fracture at approx. 30 deg. to CA; at 42.00m - hairline fracture at approx. 25 deg. to CA; crosscutting slickensides at approx. 45 deg. to CA; at 45.37m - hairline fracture at approx. 20 deg. to CA; crosscutting slickensides at approx. 50 deg. to CA; at 49.06m - hairline fracture at approx. 45 deg. to CA; cross-cutting slickensides at approx. 70 deg. to CA; at 49.61m - 2cm wide quartz-chlorite vein at approx. 45 deg. to CA; 25% chlorite; crosscutting slickensides at approx. 70 deg. to CA; nil pyrite; at 51.61m - hairline fracture at approx. 25 deg. to CA; crosscutting slickensides at approx. 70 deg. to CA					
			7669	39.00	40.00	1.00	0.
			7670	40.00	41.00	1.00	0.
			7671	41.00	42.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
			7672	42.00	43.00	1.00	0.
			7673	49.00	50.00	1.00	0.
52.91 -	53.14 -	irregular 5cm wide pegmatitic band; no fracturing; nil pyrite; at 55.00m - irregular 0.2-0.9cm wide "streaky" quartz-chlorite-filled fracture with minor carbonate at approx. 5-20 deg. to CA; also a 2cm wispy "sweat" of quartz-carbonate; 6cm wide "speckled" alteration halo; nil pyrite; at 56.29m - 7cm wide pegmatitic zone subparallel and roughly centered about 2 hairline fractures at approx. 30 deg. to CA; trace pyrite; at 56.80m - 2-4cm wide pegmatitic zone at approx. 40 deg. to CA; crosscutting fracture at approx; 35 deg. (different direction) ; pegmatitic zone seems to also follow the fracture to a small extent; nil pyrite; at 57.35m - 0.5cm wide chlorite-filled fracture at approx. 25 deg. to CA; crosscutting slickensides at approx. 80 deg; to CA					
			7674	52.50	53.50	1.00	0.
			7675	56.00	57.10	1.10	0.
			7676	57.10	58.50	1.40	0.
			7677	58.50	59.50	1.00	0.
59.72 -	61.60 -	alteration a little stronger; weak to moderate sericitization, chloritization - 20-25% biotite; a little finer-grained; nil to trace pyrite; at 61.75m - hairline fracture at approx. 40 deg. to CA; crosscutting slickensides at approx. 80 deg. to CA; at 63.86m - hairline fracture at approx. 25 deg. to CA. crosscutting slickensides at approx. 75 deg. to CA; at 64.72m - hairline fracture at approx. 20 deg. to CA; crosscutting slickensides at approx. 50 deg. to CA; at approx. 65.75m - grain size gradually decreasing in size from approx. 1mm diameter to approx. 0.5mm diameter at approx. 71m; speckled medium-grained (approx. 1mm diameter) halos about some of the fractures; at 68.76m - hairline fracture at approx. 50 deg. to CA; crosscutting slickensides at approx. 55 deg. to CA.	7678	59.50	60.50	1.00	20.
			7679	60.50	61.60	1.10	0.
69.23 -	69.58 -	several hairline to 0.5cm wide chlorite-filled fractures at approx. 30 deg; and approx. 75-85 deg. to CA; all with 2-6cm wide "speckled" medium-grained to coarse-grained (up to 3mm diameter) halos which overlap; trace pyrite; at 69.88m - hairline fracture at approx. 45 deg. to CA; crosscutting slickensides at approx. 70 deg. to CA					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
			7680	69.00	70.00	1.00	0.
			7681	70.00	71.00	1.00	0.
74.78	74.90	- broken up rock; nil pyrite; possibly a small fault; at 76.44m - hairline fracture at approx. 50 deg. to CA; crosscutting slickensides at approx. 65 deg. to CA; at 77.10m - hairline fracture at approx. 20 deg. to CA; crosscutting slickensides at approx. 55 deg. to CA					
			7682	74.50	75.50	1.00	0.
79.82	79.93	- 17cm wide fine-grained interval; grain size approx. 0.2-0.5mm; similar composition and alteration; contacts at approx. 45 deg. to CA are vague (not sharp); nil pyrite; at approx. 80.00m - slow, very gradational (over 15m) change in rock; becomes slightly darker with a slightly higher mafic content. matrix chloritization increasing; sericitization decreasing; biotite content remains fairly constant at approx. 20%; trace pyrite; grain size gradually increasing back to approx. 1mm diameter					
			7683	79.40	80.40	1.00	0.
			7684	80.40	82.00	1.60	0.
			7685	82.00	83.00	1.00	0.
84.00	85.88	- altered zone about 4 individual quartz-carbonate veins; moderate chloritization; weak epidotization; minor sericitization; trace pyrite; up to 1% pyrite at/near vein contacts; weak matrix hematization from 84.42-84.98m; all 4 veins have a 2-6cm wide (on either side) chloritized-epidotized-hematite-stained halo with coarse (up to 3mm) interlocking grains; at 84.51m - 3cm wide quartz-carbonate vein at 55 deg. to CA; contains the most carbonate (approx; 25-35%) of the 4 veins; trace to 0.5% fine-grained pyrite at contacts; at 84.67m - 2cm wide quartz-carbonate vein at 45 deg. to CA; minor carbonate. trace to 0.5% fine-grained pyrite at contacts; at 84.85m - 1.5cm wide quartz-carbonate vein at 50 deg. to CA; approx. 10-20% carbonate; 0.5% fine-grained pyrite at contacts; at 85.47m - 2.5cm wide quartz-carbonate vein at 50 deg. to CA; approx. 10-20% carbonate; 1% fine-grained "bleby" pyrite at contacts. moderately carbonatized halo from 85.34-85.55m; at 89.80m - hairline chlorite-filled fracture at approx. 20 deg. to CA; crosscutting slickensides at approx; 50 deg. to CA; at 92.92m - hairline chlorite-filled fracture at approx. 25 deg. to CA; crosscutting slickensides at approx. 80 deg. to CA; 2cm wide altered "speckled" halo; at approx. 97.45m - gradational (over 2m) change in					
			7686	83.00	84.30	1.30	0.
			7687	84.30	85.00	0.70	0.
			7688	85.00	85.80	0.80	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
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rock. grain size increases from medium-grained (approx. 1mm diameter) to coarse-grained (approx. 103mm diameter) ; becomes slightly lighter with a slightly lower mafic content; matrix chloritization continues; no sericitization; trace pyrite; fractures may contain minor carbonate; at 98.11m - hairline fracture at a 15 deg. to CA; crosscutting slickensides at approx. 55 deg. to CA; 3cm wide "speckled" halo; at 101.63m - 6cm wide very coarse-grained zone (approx; 8mm lath-like grains) crosscut by a chlorite-filled hairline fracture at approx 25 deg. to CA; at 102.85m - 1cm wide vuggy carbonate-chlorite band at approx; 50 deg. to CA; trace pyrite; at 104.28m - hairline fracture at approx. 20 deg; to CA; crosscutting slickensides at approx. 70 deg. to CA; at approx. 107.40m - gradational decrease in grain size from coarse-grained (approx. 1-3mm) to medium-grained (approx. 1mm diameter) ; fractures contain chlorite + carbonate. nil to trace pyrite; matrix chloritization decreasing; at 108.24m - 0.5cm wide quartz-chlorite vein at approx. 40 deg. to CA; nil pyrite; 6cm wide "speckled" halo; at 110.22m - 6cm wide coarse-grained pegmatitic (approx. 0.8mm diameter) band, centered about and subparallel to a hairline fracture at approx. 50 deg; to CA with crosscutting slickensides at approx. 75 deg. to CA

7689	85.80	87.00	1.20	0.
7690	87.00	88.00	1.00	0.
7691	100.00	101.00	1.00	10.
7692	101.00	102.00	1.00	0.
7693	102.00	102.50	0.50	0.
7694	102.50	103.50	1.00	0.
7695	108.00	109.00	1.00	0.
7696	109.00	110.00	1.00	0.
7697	110.00	111.00	1.00	0.

111.10 - 111.20 - broken up rock; pieces contain quartz-rich band, a minimum of 1cm wide; trace pyrite; at 112.80m - chlorite-carbonate fracture at approx. 10 deg. to CA. crosscutting slickensides at approx. 65 deg. to CA; at approx. 113.60m - gradational decrease in grain size from medium-grained (approx. 1mm diameter) to fine to medium-grained (approx. 0.5mm diameter) ; fractures contain chlorite + carbonate; nil to trace pyrite; very weak matrix chloritization; some fractures have a narrow "speckled" halo with 15-20%, 0.5-1mm chlorite grains. at 114.25m - hairline fracture at approx. 10 deg. to CA; crosscutting

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		slicken- sides at approx. 80 deg. to CA; at 117.30m - 0.5mm chlorite-carbonate-filled fracture at approx. 40 deg. to CA; crosscutting slickensides at approx. 70 deg; to CA; at 121.53m - 4cm wide pegmatitic band at approx. 30 deg. to CA. truncated by a hairline fracture parallel to CA; nil pyrite	7698	111.00	112.00	1.00	0.
122.42	123.45	- fine-grained (<0.5mm diameter) ; fairly abrupt change in grain size at fracture-controlled "contacts"; nil pyrite					
123.45	127.52	- coarse-grained (2-4mm diameter) ; weak mottled appearance; no matrix chloritization; most fractures have a 2-8mm wide "speckled" alteration halo with 2-4mm chlorite blebs	7699	122.30	123.50	1.20	0.
			7700	123.50	124.50	1.00	10.
			7595	124.50	125.50	1.00	0.
			7596	125.50	126.50	1.00	30.
			7597	126.50	127.50	1.00	0.
127.52	130.50	- medium-grained (approx. 1mm diameter) ; nil pyrite					
130.50	139.98	- fine to medium-grained (<0.5mm diameter) ; 2-6cm wide medium-grained "speckled" alteration halos about most fractures; at 131.28m - 6cm wide pegmatitic zone between 2 subparallel chlorite-filled fractures at approx. 50 deg. to CA; at 133.25m - hairline fracture at approx. 20 deg. to CA; cross-cutting slickensides at approx. 60 deg. to CA; at 135.11m - 4-7cm wide pegmatitic zone subparallel and roughly centered about a chlorite-filled fracture at approx. 15 deg. to CA	7598	134.50	135.50	1.00	10.
139.98	139.98	End of Hole					

Hole No.	PP-4	Northing	Grid Orient	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	December 18, 1987	Logged by	P. Huxhold
Property	Pinecone Point	Easting	Grid Azim.	0.0	- 45	075		147.5	- 42			Finished	January 8, 1988	Checked by	P. Huxhold
Section		Elevation	Length (M)	147.50								Drill Co.	Falcon Drilling	Core	BQ
Claim No.		Survey N.	Dip-Collar	-45.00NE								Drill No.		Comments:	
Target		Survey E.	Comp Bearing	75.00								Drill For.			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au
							ppb

SUMMARY

0.00 1.40 Casing

1.40 31.40 Mafic Intrusive

31.40 31.96 Mafic Intrusive Dyke

31.96 54.07 Mafic Intrusive

54.07 57.90 Feldspar Porphyry

57.90 89.06 Mafic Intrusive

89.06 89.69 Mafic Intrusive Dyke

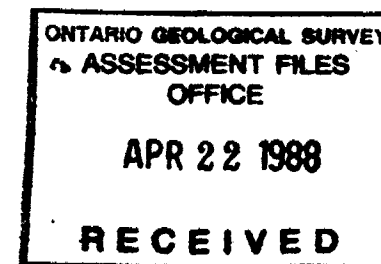
89.69 91.01 Mafic Intrusive

91.01 91.25 Mafic Intrusive Dyke

91.25 114.70 Mafic Intrusive

114.70 115.10 Mafic Intrusive Dyke

115.10 147.50 Mafic Intrusive



ST. JOE CANADA

PROPERTY - Pinecone Point

HOLE - PP-4

PAGE # 2

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
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147.50 147.50 End of Hole

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
0.00	1.40	Casing					
1.40	31.40	Mafic Intrusive					
		- dark green (chloritic) ; fine to medium-grained; massive-looking; slightly mottled appearance with epidotized amphibole crystals; trace-1% finely disseminated pyrite; minor scattered hairline fractures with epidote + carbonate + pyrite; early set approx. 60 deg. to CA; late crosscut set at approx. 15 deg. to CA (approx. 1-2cm offset of early fractures by later crosscut fractures)	7584	15.50	16.40	0.90	20.
16.40	21.50	Altered/Deformation Zone	7585	16.40	17.86	1.46	30.
16.40	17.86	- zone of weak foliation and weak to moderate pervasive carbonatization. scattered wisps of buff-coloured carbonate conform to foliation approx. 40 - 45 deg. to CA; trace-1% "bleby" pyrite; zone is fine-grained without characteristic mottled appearance					
17.86	19.70	- zone of strong foliation and intense alteration + quartz veining; strongly chloritic; strong pervasive carbonatization; foliation approx. 40-45 deg. to CA; strong sulphidization; 2-4% euhedral pyrite; moderate hematization (mauve colour) ; at 18.36m - 16cm wide quartz-carbonate-chlorite-pyrite (SZ) vein conform to foliation approx. 45 deg. to CA; at 18.60m - 12cm wide quartz-carbonate-pyrite vein; conform to foliation approx. 45 deg. to CA; at 19.36m -	7586	17.86	18.80	0.94	320.
		5cm wide quartz-carbonate-chlorite-pyrite (SZ) vein; conform to foliation approx. 55 deg. to CA; at 19.60m - 15cm wide zone of SZ disseminated pyrite cubes; quartz-carbonate-chlorite-pyrite veining and strong hematization	7587	18.80	19.70	0.90	780.
19.70	21.50	- zone of weak foliation, weak pervasive carbonatization and minor wispy buff-coloured carbonate conformable to foliation approx. 45 deg. to CA. intensity of alteration/deformation decreases with depth	7588	19.70	20.70	1.00	20.
			7589	20.70	21.50	0.80	10.
			7590	21.50	22.50	1.00	20.
31.40	31.96	Mafic Intrusive Dyke					
		- dark grey-green; fine-grained; strongly chloritic; 1% (0.1-0.2) irregular-shaped feldspar porphyroblasts at centre of dyke; chilled margins; trace pyrite; contacts sharp; upper contact approx. 35 deg. to CA; lower contact approx. 45 deg. to CA; 1cm wide zone of increased sulphidization (1% pyrite) along contacts					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
31.96	54.07	Mafic Intrusive - as above (1.40-31.40m) ; dark green, chloritized, fine to medium-grained. massive-looking with mottled-looking epidotized amphibole needles; trace disseminated pyrite	501	39.00	40.00	1.00	20.
40.90	48.85	Altered Zone - pale grey-green colour; weakly carbonatized; lower contact is arbitrary	502	40.00	41.00	1.00	0.
40.90	45.92	High Strain Zone - zone of moderately developed foliation approx. 60-65 deg. to CA; weak to moderate matrix carbonatization and 2-3% wispy buff-coloured carbonate bands. 1-3% "bleby" pyrite associated with the wispy carbonate	503	41.00	42.00	1.00	0.
45.92	48.85	- zone of minor hairline fractures with buff-coloured carbonate generally at moderate to high angles to CA (25-65 deg. to CA) ; at 47.90m - cm long section of two 2-3cm wide quartz-carbonate-chlorite-pyrite-chalcopyrite veins; veins approx. 20-25 deg. to CA with intervening area sulphidized (1-3% pyrite)	504	42.00	43.00	1.00	0.
			505	43.00	44.00	1.00	30.
			506	44.00	45.00	1.00	20.
			507	45.00	46.00	1.00	0.
			508	46.00	47.00	1.00	0.
			509	47.00	48.00	1.00	20.
			510	48.00	49.00	1.00	0.
			511	49.00	50.00	1.00	0.
50.00	54.07	Altered Zone - zone of 1-5% (0.2-0.4cm) ; irregular-shaped chlorite clots; (dalmationitic appearance) ; occasional minor scattered hairline carbonate-pyrite stringers generally at 45-60 deg. to CA and 10-15 deg. to CA in opposite direction. trace finely disseminated pyrite	512	50.00	51.00	1.00	0.
			513	51.00	52.00	1.00	0.
			514	52.00	53.00	1.00	0.
			515	53.00	54.00	1.00	0.
54.07	57.90	Feldspar Porphyry - grey to light grey, fine-grained, masive with 1-2% (0.1-0.3cm) irregular-shaped and lath-shaped buff-coloured feldspar phenocrysts; trace-1% disseminated pyrite; weakly altered 1-2% (0.1-0.3cm) biotite books/flakes. minor scattered hairline fractures with carbonate + pyrite at moderate angles to CA (40-65 deg.) ; upper contact sharp approx. 30 deg. to CA with an 8cm wide zone of chlorite-epidote-pyrite alteration in mafic intrusive; lower contact sharp approx. 40 deg. to CA with 1-2cm size mafic intrusive apophyses in the feldspar porphyry	516	54.00	55.00	1.00	0.
			517	55.00	56.00	1.00	0.
			518	56.00	57.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
57.90	89.06	Mafic Intrusive - dark green, medium-grained, massive-looking; weakly dalmationitic with 5-7Z (0.2-0.3cm) chlorite clots; trace very finely disseminated pyrite; minor scattered hairline fractures (less 1%) with carbonate + pyrite; contacts 45-60 deg. to CA	519	57.00	58.00	1.00	0.
			520	58.00	59.00	1.00	20.
			521	69.00	70.00	1.00	0.
	70.30 - 71.00	Altered Zone - green to pale green colour; weak pervasive carbonatization; contacts gradational; at 70.65m - 2cm wide zone of carbonate-quartz-pyrite veining. - contacts approx. 50 deg. to CA; at 79.00m - 2cm wide quartz-carbonate band. contacts approx. 45 deg. to CA; at 80.88m - two crosscutting 0.5cm wide quartz-carbonate-filled fractures; contacts approx. 40 deg. to CA; trace fine-grained pyrite, one vein contained 3mm wide bleb of anhedral chalcopyrite-pyrite	522	70.00	71.00	1.00	0.
	81.30 - 81.50	- moderately fractured (10%) zone with quartz-carbonate + pyrite; fractures at 15-20 deg. and 45-50 deg. to CA; mm-scale weakly epidotized halos	523	71.00	72.00	1.00	0.
	83.00 - 86.50	- dalmationite texture gradually decreasing; rock develops a coarse-grained salt and pepper appearance; approx. 87.00m - EDM - rock has a glassy, smooth scratch resistant surface; possibly very weakly silicified; non-silicified at fracture contacts; at 87.76m - 3cm wide quartz-carbonate band; contacts approx; 45 deg. to CA; contains 2-3% mm-scale chlorite clots, trace fine-grained pyrite - at 88.84m - 1.5-2cm wide irregular quartz vein; contacts approx. 55-65 deg; to CA; contains several discontinuous thin chlorite wisps/bands possibly indicating a multiple event fracture; up to 10% fine-grained sulphides (pyrite with minor chalcopyrite and pyrrhotite) predominantly along contacts; weak finer-grained alteration/baked zone, 5-7cm either side	534	87.50	88.25	0.75	0.
			535	88.25	89.00	0.75	10.
89.06	89.06	Mafic Intrusive Dyke - dark grey-green; fine-grained; chloritic; sharp but irregular contacts. upper contact at 20-30 deg. to CA; lower contact at 35-40 deg. to CA; <1% very finely disseminated, euhedral pyrite					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
89.69	91.01	Mafic Intrusive - dark green with salt and pepper appearance; coarse-grained; trace very finely disseminated pyrite; minor scattered hairline fractures (<1%) with carbonate + pyrite	536	89.00	90.00	1.00	0.
	90.54 - 91.01	- slight increase in mafic constituents; several 0.5-1.5cm wide fracture-controlled chlorite-rich bands; fractures contain minor epidote, carbonate and are at 45-65 deg. to CA; trace pyrite	537	90.00	91.00	1.00	0.
91.01	91.25	Mafic Intrusive Dyke - same as 89.06-89.69m; contacts sharp and even; upper contact at 75-80 deg; to CA; lower contact at 80-85 deg. to CA; <1% very finely disseminated, uniformly distributed, euhedral pyrite; numerous carbonate-filled fractures at 45-80 deg;					
91.25	114.70	Mafic Intrusive - same as 89.96-91.01m					
	91.25 - 91.65	- similar to 90.54-91.01m but lacking chlorite bands; lower contact gradational; at 91.42m - 1cm wide quartz-carbonate-filled fracture at 50-60 deg.; weak finer-grained "baked" zone 3cm either side	538	91.00	92.00	1.00	0.
			539	92.00	93.00	1.00	10.
	94.00 - 96.20	- carbonate-filled hairline fracture subparallel to CA; contains medium-grained euhedral pyrite					
	98.40 - 112.00	- notable increase in hairline fractures (5% locally up to 15% as swarms) with carbonate + pyrite; contacts 5-20 deg. and 40-60 deg. to CA; crosscutting common; gradual decrease in fractures at 112.00m	540	98.00	99.00	1.00	10.
			541	101.00	102.00	1.00	10.
			542	102.00	103.00	1.00	0.
	98.64 - 98.87	- zone of very weak fracture-controlled epidotization; trace pyrite; at 101.06m - carbonate-filled hairline fracture at 15 deg. with a 2-3cm wide epidotized alteration halo					
	102.08 - 103.63	Altered Zone - dark green; fine-grained; weak generally pervasive chloritization; minor bleby slightly less altered zones with remnant salt and pepper texture; trace pyrite; gradational contacts					
	103.63 - 112.57	Altered Zone - discontinuous, patchy, weak chlorite alteration; predominantly fracture-controlled; trace pyrite; occasional <1cm quartz and quartz-carbonate-filled	543	103.00	104.00	1.00	0.
			544	104.00	105.00	1.00	0.
			545	105.00	106.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		fractures at 35-50 deg. to CA; gradational upper and lower contacts; from 109.23m to 109.61m chloritization is slightly more pervasive, less patchy. grain size slightly coarser throughout zone	546	106.00	107.00	1.00	0.
			547	107.00	108.00	1.00	0.
			548	108.00	109.00	1.00	0.
			549	109.00	110.00	1.00	0.
			550	110.00	111.00	1.00	0.
	111.00 - 122.00	- weak dalmationitic texture with 5-10% (0.2-0.4cm) chlorite clots develops. salt and pepper appearance continues; at approx. 114.00m - grain size in salt and pepper appearance gradually decreases to a finer but still coarse grain	551	111.00	112.00	1.00	0.
			552	112.00	113.00	1.00	0.
			553	113.00	114.00	1.00	0.
			554	114.00	114.70	0.70	0.
114.70	115.71	Mafic Intrusive Dyke - dark green; fine-grained; chloritic; sharp contacts; upper contact at 30-50 deg. to CA (broken up) ; lower contact sharp at 50-55 deg. to CA; 1-2% fine to medium-grained, euhedral, disseminated pyrite; 0.5cm wide chilled margins. below lower contact a 10cm wide weakly "baked" finer-grained zone in mafic intrusive	555	114.70	115.70	1.00	0.
			556	115.70	117.00	1.30	0.
115.71	147.50	Mafic Intrusive - same as from 89.69-91.01a					
	116.45 - 116.76	- zone of weak epidotization and chloritization alteration due to a swarm of carbonate-filled hairline fractures at 30-50 deg. to CA; 0.5% fracture-controlled very fine-grained pyrite					
	121.85 - 121.96	- same as above					
	122.00 - 142.90	- notable increase in hairline fractures (5-10%, locally up to 15% as swarms) with carbonate; fracture contacts at 20-50 deg. to CA	557	122.00	123.00	1.00	10.
			558	123.00	124.00	1.00	0.
	122.00 - 134.45	Altered Zone - discontinuous, patchy, weak chloritization, predominantly fracture-controlled - gradational upper and lower contacts; trace pyrite	559	124.00	125.00	1.00	0.
			560	125.00	126.00	1.00	0.
			561	126.00	127.00	1.00	0.
	124.05 - 130.72	- similar overall appearance but a slightly paler colour; felsic constituents very weakly sausseritized; occasional irregular <1cm wide quartz-carbonate-filled fractures at 40-60 deg. to CA	562	127.00	128.00	1.00	0.
			563	128.00	129.00	1.00	0.
			564	129.00	130.00	1.00	0.
	130.72 - 134.45	- weak dalmationitic texture re-appears	565	130.00	131.00	1.00	0.
	130.95 - 131.37	- broken up, blocky core due to intense fracturing; slickensides at approx; 45 deg. to CA on some fracture surfaces					
			566	131.00	132.00	1.00	0.
			567	132.00	133.00	1.00	0.
			568	133.00	134.00	1.00	0.

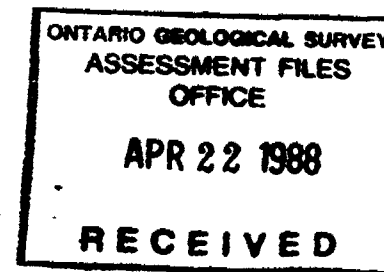
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
134.45	136.30	Altered Zone	569	134.00	135.00	1.00	0.
		- medium green; weak pervasive chloritization, doesn't completely obscure the salt and pepper appearance or dalmationitic (approx. 5% chlorite clots) texture; gradational contacts; minor epidote; trace fine-grained disseminated pyrite	570	135.00	136.00	1.00	0.
136.30	140.03	- same as from 122.00-134.45m with weak dalmationitic texture	571	136.00	137.00	1.00	0.
			572	137.00	138.00	1.00	0.
			573	138.00	139.00	1.00	0.
			574	139.00	140.00	1.00	0.
140.03	142.69	Altered Zone	575	140.00	140.60	0.60	0.
		- medium green; weak pervasive chloritization, doesn't completely obscure salt and pepper appearance or dalmationitic texture; gradational contacts. minor epidote; trace to 0.5% disseminated "bleby" pyrite	576	140.60	141.10	0.50	0.
			577	141.10	142.00	0.90	0.
140.63	141.07	- a mottled quartz-carbonate-rich zone; weakly chloritized and epidotized. quartz-carbonate occurs as wisps, mm-scale irregular blebs and fracture filling					
		- 1-2% pyrite with minor pyrrhotite as fine-grained bleby disseminations and fracture-controlled; at 141.32m - 1.5-2.5cm wide quartz-carbonate band at 60-65 deg. to CA; two 0.6cm wide quartz-carbonate bands parallel to and 3cm below wider band; trace pyrite along contacts					
142.69	147.00	- mottled coarse-grained salt and pepper appearance gradually decreasing. becoming massive-looking; fine to medium-grained; dark green; at approx; 142.80m - dalmationitic texture disappears	578	142.00	143.00	1.00	0.
			579	143.00	144.00	1.00	0.
			580	144.00	145.00	1.00	0.
			581	145.00	146.00	1.00	0.
			582	146.00	147.50	1.50	0.
147.50	147.50	End of Hole					

Hole No.	PP-5	Northing	Grid Orient	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	January 9, 1988	Logged by	B. Paterson
Property	Pinecone Point	Easting	Grid Azi.									Finished	January 12, 1988	Checked by	P. Huxhold
Section		Elevation	Length (M)	120.80m								Drill Co.	Falcon Drilling	Core	BQ
Claim No.		Survey N.	Dip-Collar	-45.00								Drill No.		Comments:	Approx. 1m above
Target		Survey E.	Comp Bearing	36.00								Drill For.		lake level	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au
			ppb				

SUMMARY

0.00 1.51 Casing
 1.51 3.10 Overburden
 3.10 12.85 Mafic Intrusive
 12.85 120.80 Mafic Intrusive
 120.80 120.80 End of Hole



FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
0.00	1.51	Casing					
1.51	3.10	Overburden					
		- limonite-stained					
3.10	12.85	Mafic Intrusive					
		- dark grey-green; fine-grained; massive; 1-2% scattered carbonate-chlorite-filled hairline fractures at 5-20 deg. and 35-55 deg. to CA; 5-10% fine-grained biotite; 1-2% euhedral disseminated pyrite, predominantly fine-grained, local coarse grains (up to 5mm)					
	3.10 - 10.11	- very weak, rust red hematization, predominantly as staining within fractures. minor hematite content in matrix; 1-2% finely disseminated, euhedral pyrite. common hairline carbonate-chlorite-filled fractures with crosscutting slicken-sides: at 3.87m - fracture approx. 70 deg. to CA; slickensides approx. 75 deg; to CA; at 4.28m - fracture approx. 20 deg. to CA; slickensides approx. 60 deg; to CA; at 5.00m - fracture approx. 20 deg. to CA; slickensides approx. 60 deg; to CA; at 5.58m - fracture approx. 30 deg. to CA; slickensides approx. 60 deg; to CA; at 6.48m - fracture approx. 65 deg. to CA; slickensides approx. 80 deg; to CA; at 7.84m - fracture approx. 10 deg. to CA; slickensides approx. 50 deg; to CA; at 8.19m - fracture approx. 70 deg. to CA; slickensides approx. 80 deg; to CA; at 9.27m - fracture approx. 50 deg. to CA; slickensides approx. 90 deg; to CA; at 10.72m - fracture approx. 20 deg. to CA; slickensides approx. 50 deg; to CA					
	11.49 - 11.81	- several 2-7mm wide carbonate-chlorite-filled fractures at 10-15 deg. to CA. several euhedral 3-5mm pyrite grains; at 11.92m - carbonate-chlorite-filled hairline fracture at <10 deg. to CA with crosscutting slickensides at 90 deg; to CA					
	12.21 - 12.59	- broken up core along low angle (<10 deg.) fractures					
12.85	120.80	Mafic Intrusive					
		- dark to medium grey-green; medium to coarse-grained; massive; 2-3% scattered carbonate + chlorite + epidote + pyrite-filled fractures at 0-25 deg; and 40-70 deg. to CA; <1% fine-grained disseminated pyrite; upper contact gradational					
	12.85 - 26.79	- a few fractures have a thin (<3mm) weakly epidotized halo; 2-3% pyrite as fine-grained sub to euhedral disseminations, local anhedral blebs (up to 7mm) and fine-grained anhedral fracture-controlled aggregates; at 14.27m - 0.5-1cm wide weakly epidotized fracture at approx. 45 deg. to CA; trace pyrite; at 15.09m - hairline fracture approx. 45 deg. to CA with crosscutting	583	13.00	14.00	1.00	0.
			584	14.00	15.00	1.00	0.
			585	15.00	16.00	1.00	0.
			586	16.00	17.00	1.00	0.
			587	17.00	18.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		slickensides at approx. 70 deg. to CA; at 16.60m - very low angle multiple event fracture.	588	18.00	19.00	1.00	0.
			589	19.00	20.00	1.00	0.
19.00	24.00	2 stages of infilling with chlorite and carbonate respectively; nil pyrite	590	20.00	21.00	1.00	0.
		- slightly higher pyrite content, up to 5%; predominantly as anhedral blebs	591	21.00	22.00	1.00	0.
		and fracture-controlled aggregates; at 20.04m - 1.5cm wide quartz-carbonate-	592	22.00	23.00	1.00	0.
		pyrite vein at approx. 40-50 deg. to CA; contains 50-60% euhedral 0.5-2mm	593	23.00	24.00	1.00	0.
		pyrite grains					
			594	24.00	25.00	1.00	0.
			495	25.00	26.00	1.00	0.
26.79	31.36	Altered Zone	596	26.00	26.80	0.80	0.
		- slightly paler grey-green; fine-grained; weak to moderately pervasive,	597	26.80	28.00	1.20	0.
		matrix carbonatization; local cm-scale intervals are weakly foliated;	598	28.00	29.00	1.00	0.
		foliation defined by elongated felsics and chlorite; wisps of carbonate	599	29.00	30.00	1.00	20.
		aligned sub-parallel to foliation; 1-2% carbonate-filled fractures in					
		non-foliated zones,					
		5-7% in foliated zones; 1% (locally up to 3%) fine-grained pyrite as					
		euhedral disseminations, anhedral blebs (up to 3mm) and minor					
		fracture-controlled; at					
		27.13m - weak foliation at 40-50 deg. to CA; at 29.53m - weak foliation at					
		50-					
		55 deg. to CA; at 30.65m - weak foliation at 50-55 deg. to CA					
31.36	34.86	- few fractures have a thin (<3mm) weakly epidotized halo; trace to 1% fine-	600	30.00	31.40	1.40	0.
		grained pyrite; at 32.94m - 0.3-0.5cm wide weakly epidotized fracture at	7601	31.40	32.60	1.20	10.
		approx. 35 deg. to CA; a 6-7cm wide fine-grained halo surrounds the fracture.	7602	32.60	33.60	1.00	0.
		at 34.61m - 7cm wide swarm of hairline fractures at 60-70 deg. to CA	7603	33.60	34.60	1.00	0.
		containing carbonate-epidote + pyrite; pyrite occurs as very fine sub to					
		euhedral grains, up to 2% of fractures					
34.86	36.42	Altered Zone	7604	34.60	35.60	1.00	60.
		- similar appearance as 26.79-31.36m but no carbonatization; paler					
		grey-green. fine-grained; weak pervasive chloritization; 1% fine-grained					
		disseminated euhedral pyrite and anhedral blebs occurring throughout matrix					
		and fractures (locally up to 10%); contacts gradational; at 35.78m - 11cm					
		wide weakly foliated zones; foliations at 60-80 deg. to CA; at 35.92m - 9cm					
		wide quartz-rich zone containing chlorite-carbonate-pyrite; quartz and					
		pyrite major constituents; 10% pyrite as fine to coarse disseminated euhedral					
		grains and large (up to 4mm) anhedral, predominantly fracture-controlled,					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
36.42	36.83	blebs; weak fracturing at 70-80 deg. to CA - a few fractures have a thin (<3mm) weakly epidotized halo; trace-1% fine-grained pyrite	7605	35.60	36.60	1.00	90.
36.83	38.57	Altered Zone - dark grey-green; medium-grained; massive; weakly silicified; <1% hairline fractures at 15-20 deg. and 30-45 deg. to CA; 1-2% pyrite occurring generally as fine to coarse (up to 3mm) grained euhedral disseminations, minor pyrite on fracture surfaces; contacts gradational	7606	36.60	37.60	1.00	0.
38.57	41.03	<1% carbonate + epidote-filled hairline fractures; trace-1% fine-grained pyrite; at 40.29m - 0.3cm wide carbonate-epidote-filled fracture at 35 deg. to CA with 3cm fine-grained halo; at 40.63m - 0.5-1.5cm wide quartz-carbonate vein at 20 deg. to CA; trace pyrite	7607 7608 7609	37.60 38.60 39.90	38.60 39.90 40.90	1.00 1.30 1.00	0. 20. 0.
41.03	45.69	Altered Zone - weakly silicified; same as 36.83-38.57m	7610 7611	40.90 41.60	41.60 43.00	0.70 1.40	0. 100.
41.53	45.34	- weak silicification continues but appearance changes; medium grey-green; fine to medium-grained (variable); 1-2% carbonate-epidote-pyrite-filled fractures. lighter colour possibly due to a higher epidote content; 1-2% pyrite; at 41.96m - 0.5-1.5cm wide pyrite-carbonate vein at 60-80 deg. to CA; 70-80% very fine-grained, subhedral pyrite; at 42.12m - 1cm wide pyrite-carbonate vein at approx 90 deg. to Ca; 70-80% very fine-grained, sub to euhedral, bleby pyrite; at 42.93m - 4cm wide zone with several epidote-carbonate + pyrite fractures at approx. 70-85 deg. to CA; at 43.86m - 7cm wide quartz-rich zone containing minor carbonate, chlorite; 3-4% fine-grained bleby pyrite in neighbouring mafic intrusive; mafic intrusive below (for 10cm) zone is highly chloritic and weakly foliated at 40-65 deg. to CA	7612 7613	43.00 44.00	44.00 45.00	1.00 1.00	0. 10.
46.09	47.56	- very broken up, blocky core; possibly a fault zone	7614	45.00	46.00	1.00	0.
47.56	49.53	- 1-2% carbonate + pyrite hairline fractures weakly epidotized; <1% fine-grained disseminated pyrite	7599 7615	46.00 47.60	47.60 49.00	1.60 1.40	0. 0.
49.53	49.71	- very weak dalmationitic texture with <5% chlorite clots (<2mm wide)					
49.71	50.77	- same as from 47.56-49.53m; at 49.83m - 2-3cm wide carbonate-quartz-pyrite-filled fracture at 30-40 deg. to CA; 7-10% fine to medium-grained sub to euhedral pyrite	7616	49.00	50.00	1.00	0.
50.77	62.90	Altered Zone - dark to medium grey-green; medium-grained to coarse-grained; weak to	7617 7618	50.00 51.00	51.00 52.00	1.00 1.00	0. 0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		moderate dalmationitic chloritization; 5-10% (0.1-0.4cm) chlorite clots; 1% carbonate + epidote + pyrite-filled hairline fractures at 10-25 deg. and 40-60 deg. to CA; minor epidote in matrix; trace to 1% very finely disseminated pyrite	7619	52.00	53.00	1.00	0.
			7620	61.00	62.00	1.00	0.
57.11	57.24	- weakly carbonatized interval centered about a 3mm wide quartz-carbonate-filled fracture at 15 deg. to CA; 0.5% very fine-grained pyrite					
60.21	60.62	- more pervasive chloritization; less dalmationitic; finer-grained					
62.90	65.04	Altered Strain Zone	7621	62.00	63.00	1.00	0.
		- dark to medium grey-green; fine to medium-grained; weak to moderately developed foliation at 50-60 deg. to CA; moderate pervasive, matrix carbonatization; 2% carbonate-filled hairline to 0.5cm wide fractures; trace to 1% fine-grained euhedral disseminated pyrite; gradational contacts	7622	63.00	64.00	1.00	0.
			7623	64.00	65.00	1.00	0.
63.56	64.30	- zone of strongest strain; moderately foliated; abundant white to buff carbonate wisps and chlorite-rich bands (<2mm) define foliation; 1-3% bleby pyrite predominantly associated with carbonate; at 64.80m - 1-3cm wide quartz-carbonate-rich zone at 50-60 deg. to CA; 1% bleby pyrite at contact					
65.04	69.36	- dalmationitic chloritization; same as 50.77-62.90m; at 65.31m - 2 parallel 1cm wide quartz veins at 60 deg. to CA; 0.4cm apart; 5% very fine-grained pyrite concentrated along contacts	7624	65.00	66.00	1.00	40.
65.44	65.68	- more pervasive chloritization; less dalmationitic; finer-grained; fractures contain a little more epidote; 2% fine-grained fracture-controlled pyrite; at 68.50m - 0.5cm wide epidotized fracture subparallel to CA with a 3cm wide, chlorite-rich halo; trace pyrite; at 69.00m - 0.1-0.5cm wide, erratic, epidotized fracture subparallel to CA; 3-5% fracture-controlled; fine-grained pyrite-pyrrhotite					
69.36	93.29	Altered Zone	7625	69.00	70.00	1.00	0.
		- weak to moderate dalmationitic chloritization and very weak silicification. 1-2% quartz-carbonate and carbonate-filled hairline fractures; trace to 0.5% very fine-grained predominantly fracture-controlled pyrite; contacts gradational; fractures typically have a narrow (1-5mm) unsilicified, often weakly carbonatized halo	7626	70.00	71.00	1.00	0.
			7627	71.00	72.00	1.00	10.
			7628	72.00	73.00	1.00	10.
			7629	73.00	74.00	1.00	0.
			7630	74.00	74.60	0.60	0.
74.60	75.64	- zone of strongest silicification (weak) ; darker grey-green; only minor fracturing; trace pyrite	7631	74.60	75.60	1.00	0.
88	77.04	- darker grey-green; weak silicification; same as above; at approx. 78.00m - dalmationitic chloritization weakens; chlorite clots are fewer, smaller and less evident	7632	75.60	77.00	1.40	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
78.60	78.85	darker grey-green; weak silicification	7633	77.00	78.00	1.00	0.
			7634	78.00	79.00	1.00	10.
			7635	79.00	80.00	1.00	0.
80.11	80.33	non-silicified; moderately carbonatized zone centered about two 0.5cm wide carbonate-filled fractures at 40-45 deg. to CA; trace pyrite					
90.22	90.50	non-silicified; moderately carbonatized zone centered about a 4cm wide quartz-rich zone; quartz occurs at irregular fracture-filling and as mm-scale "sweats"; quartz-filled fractures at 50-60 deg. to CA; contain carbonate, chlorite and 1% fine-grained bleby pyrite; at 91.33m - 0.5cm quartz vein at approx. 75 deg. to CA	7636	89.50	90.50	1.00	0.
			7637	90.50	91.50	1.00	0.
			7638	91.50	92.50	1.00	0.
92.70	93.29	non-silicified; moderately carbonatized zone centered about; at 92.86m - 4cm wide quartz-rich band at approx. 80 deg. to CA; 3% fine-grained pyrite-pyrrhotite; at 93.06m - 7cm wide quartz vein (sharp contacts, only minor inclusions of host rock) at approx. 80 deg. to CA; 3% fine-grained bleby pyrite-pyrrhotite, predominantly at contact; at 93.16m - 1cm wide quartz-carbonate vein at approx. 70 deg. to CA; trace pyrite					
93.29	96.00	coarse-grained; weakly sausseritized; 2% weakly epidotized hairline fractures	7639	92.50	93.50	1.00	0.
			7640	93.50	94.50	1.00	0.
		0.5% fine-grained, fracture-controlled pyrite; non-silicified; at 94.30m - 2-3cm wide quartz-rich zone with minor epidote, carbonate at 20 deg. to CA. trace pyrite	7641	94.50	96.00	1.50	0.
96.00	120.80	Altered Zone	7642	96.00	97.00	1.00	0.
		discontinuous, patchy, weak chlorite alteration; 1-2% quartz-carbonate + chlorite + epidote + pyrite-filled fractures at 0-10 deg., 30-50 deg. and 70-80 deg. to CA; trace pyrite; a few local pyrite-pyrrhotite-rich hairline fractures - gradational contacts; chloritization is slightly more pervasive (less patchy) and stronger (weak to moderate) at 96.17-97.05m, 98.04-98.27m, 100.69-101.03m,	7643	97.00	98.00	1.00	0.
		106.04-106.39m; very weak silicification continues giving a glassy, smooth surface; non-silicified at carbonatized intervals and along fractures; at 106.80m - patchy chloritization weakens to very weak and predominantly fracture-controlled; minor, very weak dalmationitic chloritization; fractures contain less chlorite-epidote	7644	98.00	99.00	1.00	0.
			7645	99.00	100.00	1.00	0.
			7646	107.00	108.00	1.00	0.
			7647	108.00	109.00	1.00	0.
			7648	109.00	109.70	0.70	0.
			7649	109.70	110.90	1.20	0.
			7650	110.90	111.90	1.00	20.
			7651	111.90	112.90	1.00	0.
			7652	112.90	114.00	1.10	0.
			7653	114.00	115.00	1.00	0.

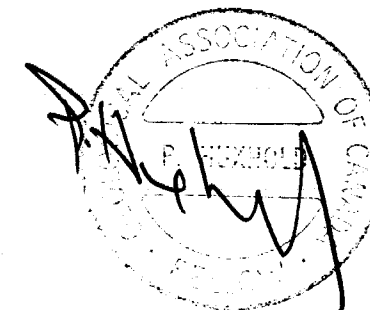
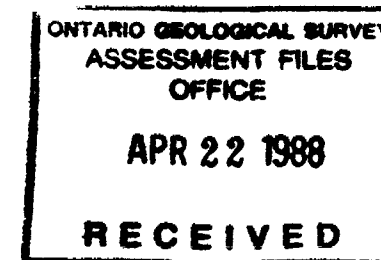
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
107.10	108.75	- weak chloritization, predominantly dalmationitic, minor fracture-controlled patchy chloritization					
109.76	110.73	- weak to moderate carbonatization; trace very fine-grained pyrite; weakly foliated interval from 110.16-110.71m contains abundant carbonate wisps sub-parallel to foliation at 40-60 deg. to CA; at 110.48m - 1cm wide quartz fracture with minor carbonate and chlorite at approx. 70 deg. to CA; nil pyrite; at 110.65m - 3cm wide quartz fracture with minor carbonate and chlorite at approx. 55 deg. to CA; trace pyrrhotite; at 113.15m - 1.5cm wide quartz fracture with minor carbonate at approx. 45 deg. to CA; 6cm wide weakly chloritized-epidotized halo; nil pyrite; at 115.12m - increase in hairline fracturing, up to 5-7%; trace pyrite	7654	115.00	116.00	1.00	0.
115.28	115.46	- weakly epidotized zone; predominantly fracture-controlled; 10% hairline fractures; trace pyrite; at 116.24m - 0.5-1.5cm wide carbonate fracture with minor quartz at approx. 60 deg. to CA; trace pyrite	7655	116.00	116.50	0.50	0.
116.69	117.35	- moderate carbonatization, centered about an irregular, 0.3-1.5cm wide quartz-carbonate-chlorite-filled fracture, subparallel to CA, from 116.87-117.30m; 2% fine-grained fracture-controlled (up to 60% in hairline fractures) "bleby" pyrite; at 117.91m - several irregular, 1-4mm quartz "sweats"; trace fine-grained pyrite	7656	116.50	117.50	1.00	0.
118.33	118.82	- more pervasive, slightly stronger chloritization; 0.5% fine-grained disseminated pyrite	7657	117.50	118.50	1.00	0.
118.90	119.18	- weakly epidotized; very weak deformation; weak irregular alignment of chlorite and chlorite "flow" about felsic grains; trace pyrite					
119.18	120.80	- patchy chloritization increases from very weak (at 106.80m) to weak; similar to 96.00-106.80m; trace to 0.5% fine-grained pyrite, predominantly fracture-controlled; abundance of fractures decreases (from 5-7% at 115.12m) to 1-2%	7658	118.50	119.50	1.00	0.
			7659	119.50	120.80	1.30	0.
20.80	120.80	End of Hole					

Hole No.	PP-6	Northing	Grid Orient	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	January 15, 1988	Logged by	B. Paterson
Property	Pinecone Point	Easting	Grid Azim.	0.0	- 45	036		49.4	- 48			Finished	January 16, 1988	Checked by	P. Huxhold
Section		Elevation	Length (M)				49.40					Drill Co.	Falcon Drilling	Core	BQ
Claim No.		Survey N.	Dip-Collar				-45.00					Drill No.		Comments:	
Target		Survey E.	Comp Bearing				36.00					Drill For.			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au
							ppb

SUMMARY

0.00 2.10 Casing
 2.10 2.26 Overburden
 2.26 41.40 Mafic Intrusive
 41.40 43.43 Feldspar Porphyry
 43.43 49.40 Mafic Intrusive
 49.40 49.40 End of Hole

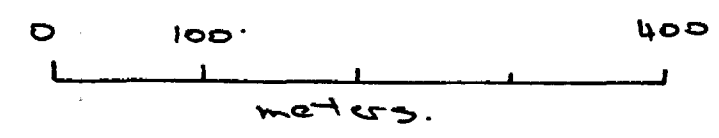
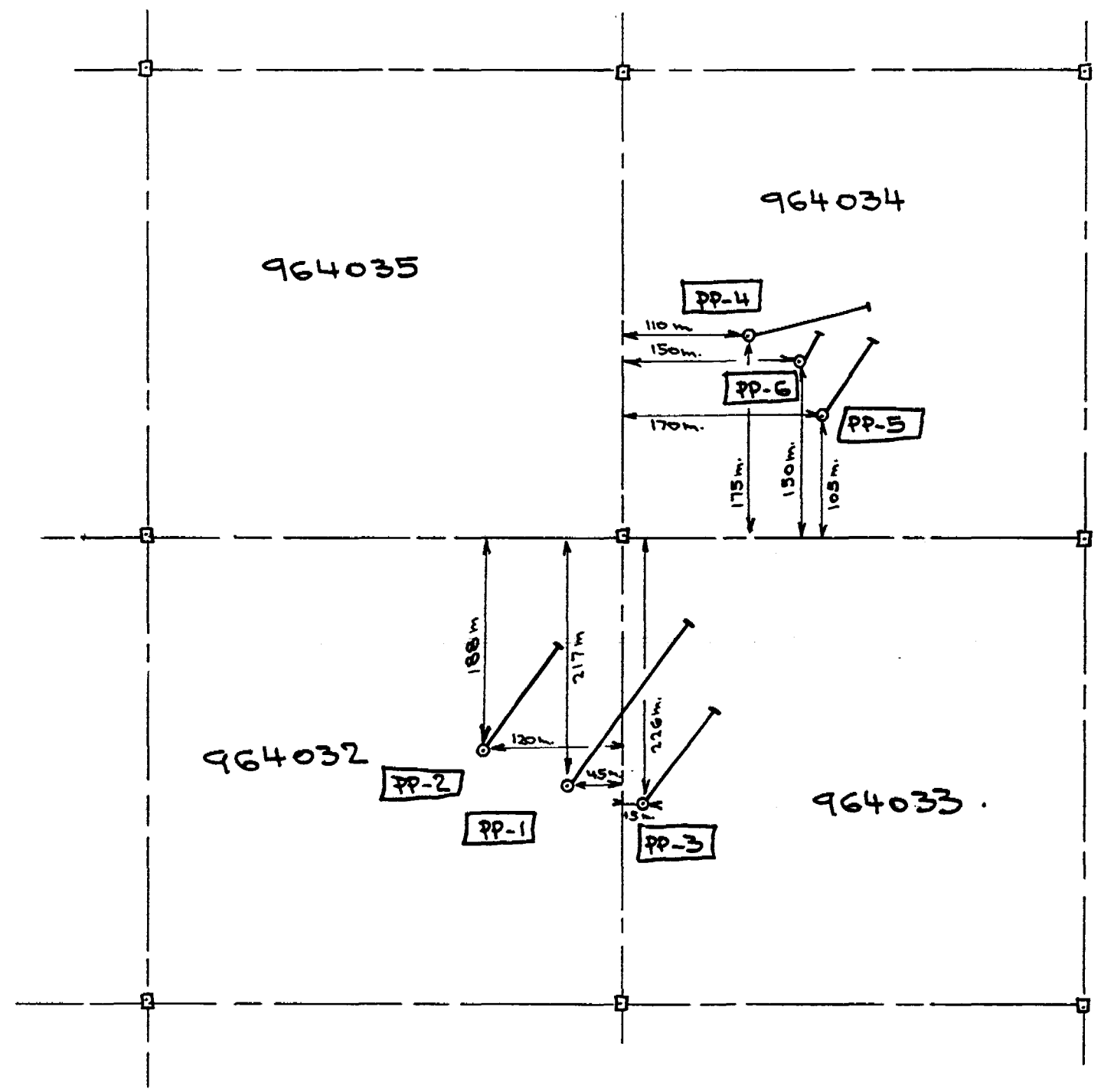


FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
0.00	2.10	Casing					
2.10	2.26	Overburden					
2.26	41.40	Mafic Intrusive					
		- dark to medium grey-green; varying medium-grained; massive; approx. 1% scattered hairline fractures at 5-20 deg. and 35-65 deg. to CA; occasional fracture at approx. 75-80 deg. to CA; fractures contain carbonate + minor quartz + epidote + pyrite; 1% pyrite as scattered blebs and fracture-controlled - minor amounts as coarse (up to 2mm) euhedral grains; minor pyrrhotite					
2.26 -	15.00 -	20-25% of fractures have weak to moderate limonitic staining decreasing in intensity and frequency with depth	48751	2.30	3.00	0.70	0.
			48752	3.00	4.00	1.00	0.
2.26 -	4.89 -	slightly darker coloured and finer-grained; 1-2% pyrite occurring as scattered small blebs and minor disseminated fine grains; minor pyrrhotite. lower contact gradational					
			48753	4.00	5.00	1.00	0.
10.62 -	11.18 -	zone of intense fracturing and epidotization; 10-20% hairline to 7mm wide fractures; no visible increase in sulphides; at 10.77m - 4cm wide zone of brecciated material within a fracture; contains in order of abundance: brecciated mafic intrusive (pieces up to 2.5cm long; majority are 2-5mm), epidote, carbonate, pyrite	48754	10.00	11.00	1.00	10.
			48755	11.00	12.00	1.00	20.
12.18 -	12.57	Altered Zone					
		- slightly lighter grey-green; fine to medium-grained; weak to moderate matrix carbonatization; 1-2% wispy to 5mm carbonate fractures at 10-15 deg. and 35-60 deg. to CA; 5-7% pyrite as small blebs and fracture-controlled, minor finely disseminated; contacts gradational; at 14.11m - 2cm wide fracture of carbonate, pyrite and quartz; 40-50% pyrite as fine to coarse (up to 3mm) sub to euhedral grains throughout fracture; 5-10% euhedral grains of pyrite (approx. 0.5mm) extending 1-2cm either side of fracture; contacts are uneven and masked by pyrite; appear to be sub-perpendicular to CA; at 17.20m - 1cm wide carbonate, quartz and chlorite-filled fracture at approx. 20 deg. to CA; no visible sulphides in fracture; 3cm wide zone of epidotization and very weak carbonatization on footwall					
			48756	12.00	13.00	1.00	0.
			48757	13.00	14.00	1.00	0.

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
			48758	14.00	15.00	1.00	0.
			48759	15.00	16.00	1.00	0.
			48760	16.00	17.00	1.00	0.
			48761	17.00	18.00	1.00	0.
18.23 -	20.09	Altered Zone	48762	18.00	19.00	1.00	20.
		- lighter grey-green; fine-grained; massive to foliated in mid-section; 1-ZZ hairline fractures at 10-15 deg. and 35-50 deg. to CA; fractures contain predominantly carbonate; some quartz, minor chlorite and epidote; matrix carbonatization moderate; approx. 0.5% pyrite predominantly fracture and foliation-controlled, minor scattered blebs of 1-2mm in size; contacts gradational	48763	19.00	20.00	1.00	10.
18.64 -	19.59	Foliated Zone					
		- lighter still grey-green; moderately foliated at 40-60 deg. to CA; light colour due to wisps of carbonate; upper and lower contacts seem to be defined by 0.5 to 1.5cm quartz-carbonate fractures at 40-60 deg. to CA; at 18.89m - a 19cm well foliated zone centered about a quartz-carbonate fracture at 50-60 deg. to CA; also an irregular 3-4mm crosscutting quartz fracture at 30-40 deg. to CA; weak epidotization in the zone; 1-ZZ pyrite occurs within the foliations as finely disseminated euhedral grains and small elongated blebs; at 20.79m -					
		4 carbonate-filled hairline fractures at 50-60 deg. to CA; 11cm weakly matrix carbonatized zone surrounds fractures; at 22.74m - 1.5cm wide carbonate, epidote, pyrite, minor chlorite and pyrrhotite-filled fracture at approx. 85 deg. to CA; 10% pyrite + pyrrhotite occurring as very fine to fine euhedral grains disseminated along contacts, some medium-grained euhedral pyrite occurs as well; at 24.07m - large 1.8cm pyrite bleb mixed with carbonate; at 24.30m - a 1-1.5cm wide quartz + carbonate + epidote-filled fracture at 15-20 deg. to CA - epidote occurs as needles showing a preferred orientation parallel with fracture					
			48764	20.00	21.00	1.00	0.
			48766	25.50	26.50	1.00	0.
27.05 -	32.17	hairline fractures increase in abundance to 3-5%; become weakly epidotized	48765	26.50	27.70	1.20	0.
		27.05 - 27.22 - very weakly carbonatized zone about a sub-perpendicular to CA; 1cm carbonate + pyrite vein at 27.10m; 10% fine-grained finely disseminated pyrite; contacts gradational; at 27.60m - a 2.5cm wide very weakly foliated					

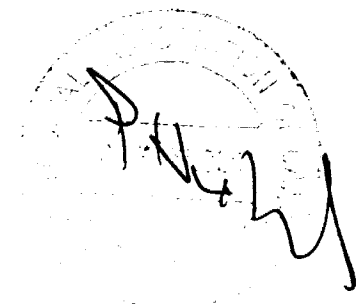
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		zone; foliations at 40-60 deg. to CA; contacts are 2 0.5-3mm carbonate fractures at 50-60 deg. to CA; at 28.50m - 0.5-1.5 epidotized carbonate + pyrite-filled fracture at approx 80 deg. to CA; 5-10% fine-grained pyrite occurs mostly along fracture edges. at 31.14m - a 7cm wide zone of weakly epidotized wispy quartz-carbonate-filled fractures at 40-50 deg. to CA; at 31.29m - a 2-3cm wide fracture-filled with pure calcite showing cleavage; fracture at approx. 70 deg. to CA; very weakly epidotized	48767	27.70	29.00	1.30	0.
			48768	29.00	30.00	1.00	0.
			48769	30.00	31.00	1.00	0.
			48770	31.00	32.00	1.00	0.
32.17 -	34.30 -	noteable decrease in hairline fractures to <1%; epidotization not evident	48771	32.00	33.00	1.00	0.
33.21 -	41.40	Altered Zone	48772	33.00	34.00	1.00	0.
		- zone of 1-5% (2-4mm) irregular-shaped chlorite clots (dalmationitic);	48773	34.00	35.00	1.00	0.
		abundance of fractures back to original 1%	48774	35.00	36.00	1.00	0.
			48775	36.00	36.75	0.75	0.
			48776	36.75	37.50	0.75	0.
37.56 -	39.95 -	altered and foliated zone; light grey-green; weakly to moderately foliated. fine-grained; moderate to strong matrix carbonatization; dalmationitic texture masked; approx. 1% hairline carbonate and quartz-carbonate fractures at 15-30 deg. to CA and 60-70 deg. to CA; foliation is weak at 50-70 deg. to CA; defined by carbonate wisps; contacts gradational	48777	37.50	38.75	1.25	0.
38.33 -	39.36 -	moderately foliated zone; contains 40-50% quartz; 20-30% carbonate; 20-30% chlorite; 5-10% pyrite; zone is quite deformed but foliations appear to be approx. 60-80 deg. to CA; pyrite is mostly fine-grained and disseminated throughout but minor amounts occur as euhedral grains up to 3mm	48778	38.75	40.00	1.25	20.
			48779	40.00	41.40	1.40	0.
41.40	43.43	Feldspar Porphyry					
		- grey to light grey; fine-grained; massive; approx. 1% (1.5-5mm) irregular and lath-shaped cream-coloured phenocrysts of feldspar; approx. 1% finely disseminated pyrite; some fracture-controlled; <1% hairline to 3mm fractures at					

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au ppb
		35-60 deg. to CA; upper contact fuzzy due to alteration is at approx. 80 deg; to CA; alteration in mafic intrusive includes weak epidotization, chloritization and large (up to 12mm) quartz sweets; a 1.5cm chilled zone in feldspar porphyry includes 2-3% biotite aligned parallel to contact; lower contact is sharp at 60-70 deg. to CA; 3cm altered zone in mafic intrusive is weakly epidotized but lacking the quartz of the upper contact; chilled margin is approx. 0.7cm and includes trace biotite; at 42.67m - 0.5cm wide fracture with quartz, pyrite and pyrrhotite and minor carbonate at 70 deg. to CA; at 42.92m - 0.7-1cm wide fracture with carbonate, pyrite, pyrrhotite and minor quartz at 70 deg. to CA; sulphides to 20%	48780	41.40	42.40	1.00	0.
			48781	42.40	43.40	1.00	0.
43.43	49.40	Mafic Intrusive - altered zone; as above (33.21-41.40m) ; approx. 2% hairline fractures	48782	43.40	44.40	1.00	0.
			48783	44.40	45.40	1.00	0.
			48784	45.40	46.40	1.00	0.
			48785	46.40	47.40	1.00	0.
			48786	47.40	48.40	1.00	0.
			48787	48.40	49.40	1.00	0.
49.40	49.40	End of Hole					



ST. JOE CANADA INC.
 FINECONE POINT PROPERTY
 HORWOOD TD., ONTARIO.

DRILL HOLE LOCATION
 PLAN.



P. H. HOLD

FEB/88



Name and Address of Recorded Holder
ST. JOE CANADA INC. **T 3608**
SUITE 1100, 20 ADELAIDE ST. E., TORONTO **M5C 2T6**

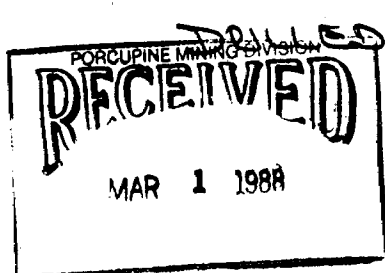
Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 2800	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only) <ul style="list-style-type: none"> <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey 									
SEE SCHEDULE 'A'									
ONTARIO GEOLOGICAL SURVY ASSESSMENT FILES OFFICE APR 22 1988 RECEIVED									

All the work was performed on Mining Claim(s): **P964032, 964033, 964034.**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

HOLE	AZIMUTH	DIP	CORE	LENGTH	STARTED	FINISHED
PP-1	036°	-45°	BQ	806.7'	DEC. 10/87	DEC. 15/87.
PP-2	036°	-45°	BQ	492.1'	DEC. 15/87	DEC. 18/87.
PP-3	036°	-45°	BQ	459.2'	JAN. 12/88	JAN. 14/88
PP-4	075°	-45°	BQ	483.9'	DEC. 18/87	JAN. 8/88.
PP-5	036°	-45°	BQ.	396.3'	JAN. 9/88	JAN. 12/88
PP-6	036°	-45°	BQ.	162.1'	JAN. 15/88	JAN. 16/88



DRILLED BY: **FALCON DRILLING LTD.**
P.O. BOX 578
Prince George, B.C.

Date of Report: **FEB. 23/88.** Recorded Holder or Agent (Signature): **P. Huxhold**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
PETER HUXHOLD, SUITE 1100, 20 ADELAIDE ST. E.
TORONTO, ONT., M5C 2T6. Date Certified: **FEB 23/88** Certified by (Signature): **P. Huxhold**

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of owner or operator together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

SCHEDULE 'A'
HORWOOD TWP

<u>PREFIX</u>	<u>CLAIM NUMBER</u>	<u>WORK DAYS CR.</u>
P	964032	75
P	964033	75
P	964034	75
P	964035	75
P	964036	75
P	964037	75
P	964038	75
P	964039	75
P	964040	75
P	964041	75
P	964042	75
P	964043	75
P	964044	75
P	964045	75
P	964046	75
P	964047	75
P	964048	75
P	964049	75
P	964050	75
P	964151	75
P	964152	75
P	964153	75
P	964154	75
P	964155	75
P	964156	75
P	972647	75
P	972648	75
P	972649	75
P	972650	75
P	972651	75
P	972652	75
P	972653	75
P	972654	75
P	972655	75
P	972656	75
P	972662	75
P	<u>972663</u>	<u>100</u>
	TOTAL 37	TOTAL 2800