



52E10NW9466 23 ECHO BAY

010

DIAMOND DRILLING

AREA: ECHO BAY (Glass Twp)

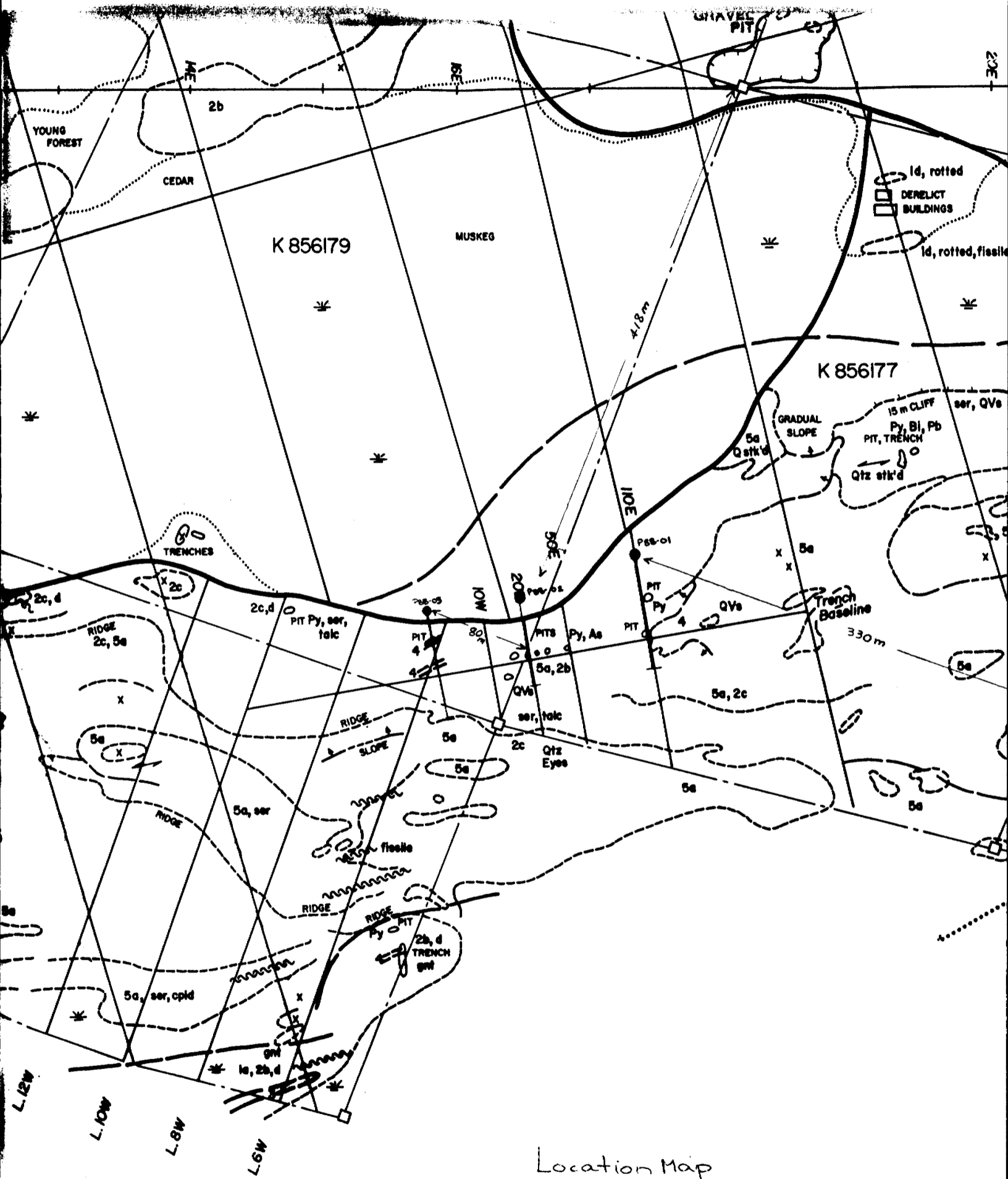
REPORT NO: 23

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>
K 856177	P88-01	124m	Jan/88	(1)
	P88-02	95m	Jan/88	(1)
K 856179	P88-03	119m	Jan/88	(1)

NOTES: (1) #W8801.016, filed June/88



Location Map

St. Joe Canada Inc.
POGSON OPTION PROPERTY
CLAIM MAP

0.5 MILES

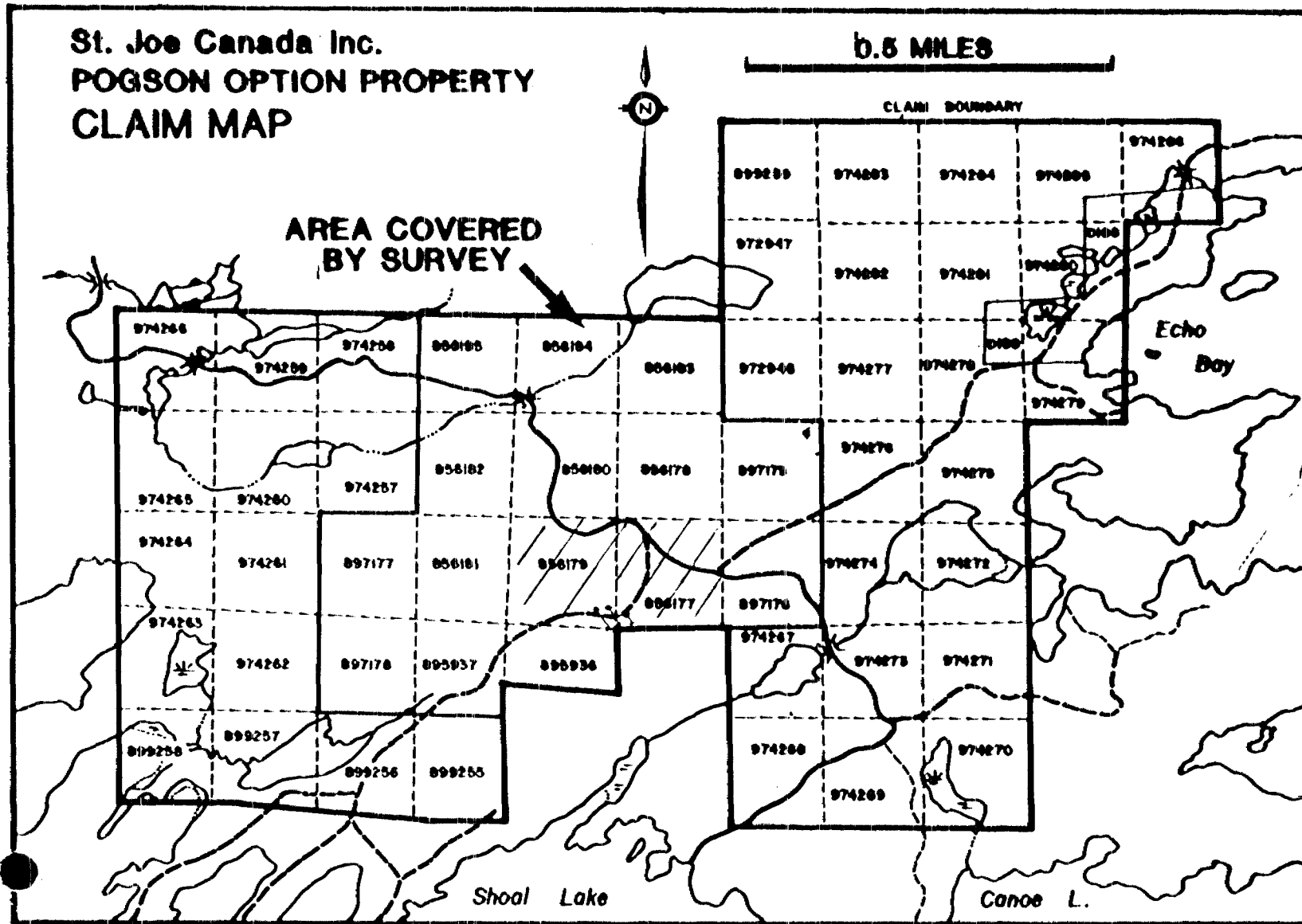
CLAIM BOUNDARY

AREA COVERED
BY SURVEY

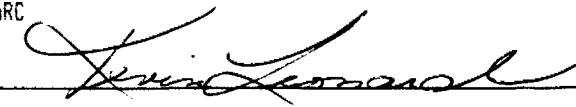
Echo
Bay

Shoal Lake

Canoe L.



Hole No.	P88-01	Northing	0+65N	Grid Orient	153	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	JAN. 16, 1988	Logged by	J. PAUL
Property	SHOAL LAKE	Easting	1+10E	Grid Azim.	0	124.0	-	41						Finished	JAN. 17, 1988	Checked by	K. LEONARD
Section	1+10E	Elevation		Length (M)	124									Drill Co.	MIDWEST	Core	NG
Claim No.	< 856177	Survey N.		Dip-Collar	-45									Drill No.		Comments:	
Target	EXT OF TRENCH SH ZN	Survey E.		Comp Bearing	153									Drill For.	MARC		



FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au	Au
							g_tonne	oz_ton

SUMMARY

0.00	3.50	Casing						
3.50	16.40	Tuffaceous Sediment (Lapilli - Ash interbeds)						
18.16	19.14	Felsic Intrusive						
19.14	36.33	Tuffaceous Sediments						
36.33	37.37	Felsite						
37.37	42.95	Tuffaceous Sediments						
42.95	46.30	Felsite						
46.30	66.80	Tuffaceous Sediments						
66.80	70.03	Felsic Intrusion						
70.03	80.80	Tuffaceous Sediments						
80.80	83.00	Felsic Intrusive						
83.00	124.00	Tuffaceous Sediments						
124.00	124.00	End of Hole						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
0.00	3.50	Casing						
3.50	16.40	Tuffaceous Sediment (Lapilli - Ash interbeds) -light greenish grey to dark greenish grey in colour; chlorite-rich; fine to medium grained; pervasively foliated throughout hole although degree of foliation varies; clasts vary in abundance and size but always elongated along foliation-homolithic; foliation at 40-50 degrees to core axis. 3.50-6.28: clasts up to 2cm rare, most less than 5mm; foliation very strong; band of sulphide at 6.19 along foliation (pyrite). 6.28-11.15: clasts commonly up to 3cm in length; abundant milky white quartz veins along foliation-thickness from a few mm up to 1cm, less than 1% disseminated sulphides. 11.15-11.85: clasts smaller, up to 3mm; calcite gashes much less abundant 11.85-12.50: sharp contact at 11.85, slightly coarser grained 12.50-15.23: same as interval 6.28 to 11.15 15.23-15.50: same as interval 11.15 to 12.20 15.50-16.40: sheared broken up patch; more abundant calcite veins again; highly chloritic; sulphides along fractures; at 15.50 very narrow clay seam (chlorite breakdown) and adjacent vuggy quartz vein. 16.40-18.16: similar to interval 11.15 to 12.20; trace disseminated sulphides	10701	6.00	6.50	0.50	0.17	0.005
			10702	6.50	7.20	0.70	0.17	0.005
			10703	11.85	12.50	0.65	0.17	0.005
			10703	12.50	14.00	1.50	0.17	0.005
			10705	14.00	15.50	1.50	0.17	0.005
			10706	15.50	17.00	1.50	0.17	0.005
18.16	19.14	Felsic Intrusive -much more highly altered; abundant greenish yellow veinlets throughout and mottled with granular bluish quartz eyes; very finely disseminated sulphides throughout and along some veinlets (<1%)						
19.14	36.33	Tuffaceous Sediments 19.14-20.25: very fine grained with minor quartz gashes; trace very finely disseminated sulphides 20.25-22.30: increase in clast size and quartz content; sulphide content increases, lenses of disseminated pyrite along foliation; varies from 2-5% pyrite with 5-7% pyrite and trace chalcopyrite from 20.34 to 20.47; from 21.63 to 21.73- greenish yellow alteration zone containing small chlorite pits mottled with granular bluish grey quartz. 22.30-25.35: abundant veinlets; foliation slightly less well developed in patches and 30-40 degrees to core axis; slightly waxy appearance; occasional development of an oblique set of fractures at about 30 degrees to core axis; patches of increased calcite concentrations; trace disseminated pyrite, slightly more along oblique fractures (euhedral to subhedral grains) 25.35-28.70: stronger foliation again at approx. 45 degrees to core axis; top 30 cm of interval calcite filled fractures, 3-4mm wide; sulphides approx. 5% pyrite in lenses of clusters along foliation; becomes overall coarser over last 10cm. 28.70-36.33: varies from light to dark grey; very fine grained at top to fine grained at bottom of interval; foliation slightly less developed; mineralization varies throughout interval, 3-4% in top 20 cm concentrated along foliation, elsewhere varies from trace to patches of up to 5%, mostly clusters along foliation; occasional calcite-filled gashes throughout but not regular.						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
			10707	18.20	19.20	1.00	0.17	0.005
			10708	20.25	21.25	1.00	0.17	0.005
			10709	21.25	22.30	1.05	0.17	0.005
			10710	24.00	24.85	0.85	0.17	0.005
			10711	25.35	26.35	1.00	0.17	0.005
			10712	26.35	27.35	1.00	0.17	0.005
			10713	27.35	28.70	1.35	0.17	0.005
			10714	28.70	29.30	0.60	0.17	0.005
			10715	30.30	31.30	1.00	0.17	0.005
			10716	31.30	32.30	1.00	0.17	0.005
			10717	32.30	33.30	1.00	0.17	0.005
			10718	33.30	34.30	1.00	0.17	0.005
			10719	34.30	35.30	1.00	0.17	0.005
			10720	35.30	36.30	1.00	0.17	0.005
36.33	37.37	Felsite -very fine grained, greenish-yellow with tiny white flecks throughout; top contact gradational over about 5cm, lower contact sharp; foliation developed but not too strongly; small blebs of pyrite (1%) smeared along foliation (fine surrounded by very fine grained pyrite); finely prophyritic (quartz eyes?)	10721	36.33	37.37	1.04	0.17	0.005
37.37	42.95	Tuffaceous Sediments -light grey in colour, more buff coloured towards top; lapilli becomes slightly more obvious towards top; small calcite gashes occasionally both conformable and unconformable with foliation; trace sulphides as euhedral grains of pyrite up to 3mm in size; very finely disseminated pyrite over last 1m.	10722	41.90	42.95	1.05	0.17	0.005
42.95	46.30	Felsite -similar to interval 36.33 to 37.37 with small patch of grey rock like surrounding rock at 45.15 to 45.32 and a slight increase in quartz eyes starting at 45.75; lower contact of interval very gradational; sulphides also highly variable from small blebs to very finely disseminated.	10723	43.60	44.70	1.10	0.17	0.005
46.30	66.80	Tuffaceous Sediments -medium grey in colour, fine grained, larger concentration of chlorite blebs along foliation; finely disseminated pyrite (1%) throughout and concentrated along some fractures; calcite gashes occasionally. 48.20-50.00: similar to above but decrease in chlorite blebs 50.00-50.22: narrowly banded; grey and greenish yellow 50.22-53.90: similar to interval 48.20-50.00; sulphides decrease towards bottom 53.90-55.08: greyish green, fine to medium grained; trace sulphides; slightly banded. 55.08-61.70: very fine grained, greenish grey; abundant calcite-filled gashes mostly along foliation; nil to trace very finely disseminated sulphides. 61.70-63.63: similar to interval 55.08 to 63.63 with fewer calcite gashes; foliation is becoming more shallow; 60 to 70 degrees to core axis 64.40-65.92: similar to interval 22.30 to 25.35; no visible sulphides 65.92-66.30: highly altered zone; dark greenish grey; abundant chloritization and sericitization?; very finely disseminated sulphides (1%) 66.30-66.80: milky white to greyish quartz vein with 1% finely disseminated pyrite.	10724	46.30	47.30	1.00	0.17	0.005
			10725	47.30	48.30	1.00	0.17	0.005

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
			10726	48.30	49.20	0.90	0.17	0.005
			10727	49.20	50.00	0.80	0.17	0.005
			10728	50.00	51.00	1.00	0.17	0.005
			10729	51.00	52.00	1.00	0.17	0.005
			10730	52.00	53.00	1.00	0.17	0.005
			10731	65.90	66.30	0.40	0.17	0.005
66.80	70.03	Felsic Intrusion -coarser grained light greenish grey with dark chloritic blebs stretched along foliation; 67.91 to 67.95 - up to 60% disseminated pyrite.	10732	66.75	67.75	1.00	0.17	0.005
			10733	67.75	68.80	1.05	0.17	0.005
			10734	68.80	69.80	1.00	0.17	0.005
70.03	80.80	Tuffaceous Sediments 70.03-70.50: similar to 55.08 to 61.70 with more pyrite-rich patches along foliation. 70.50-72.09: same as interval 66.80 to 70.03 72.09-72.82: alternating patches of above two interval types 72.82-76.50: main mineralized zone, highly altered, very chloritic; localized quartz veins but overall little quartz; mineralization varies - 3 main areas with 20-30% pyrite in bands along foliation: 73.20 to 73.64; 74.00 to 74.36 and 76.15 to 76.50; elsewhere, sulphides are in localized bands up to 1cm wide. 76.50-80.00: still highly chloritized rock with localized sulphide-rich zones of up to 10% over 1-2 cm and disseminated pyrite. 80.00-80.80: less altered zone, slightly greenish grey, fine grained, trace very finely disseminated sulphides.	10735	69.80	70.80	1.00	0.17	0.005
			10736	70.80	71.80	1.00	0.17	0.005
			10737	71.80	72.80	1.00	0.17	0.005
			10738	72.80	73.85	1.05	0.17	0.005
			10739	73.85	74.85	1.00	0.17	0.005
			10740	74.85	75.85	1.00	0.34	0.010
			10741	75.85	76.85	1.00	0.17	0.005
			10742	76.85	77.85	1.00	0.00	
			10743	77.85	78.85	1.00	0.00	
			10744	78.85	80.00	1.15	0.00	
			10745	80.00	80.80	0.80	0.00	
80.80	83.00	Felsic Intrusive 80.80-81.50: same as interval 66.80-70.03; grades at base into finer grained grey unit with small stretched white blebs to 81.73; <1% finely disseminated pyrite. 81.73-83.00: same as 80.80 to 81.50 except no sulphides	10746	80.80	81.74	0.94	0.00	
83.00	124.00	Tuffaceous Sediments 83.00-83.35: very fine grained mottled dark grey and greenish grey and a patch of coarser rock from above interval and a small patch of vein quartz 83.35-84.38: similar to interval 36.33 to 37.37 with up to 5mm quartz gashes 84.38-84.92: fine to medium grained darkish grey - homogeneous 84.92-85.10: very fine grained, dark grey with abundant quartz veinlets and gashes 85.10-85.40: similar to 84.38 to 84.92 85.40-85.45: as at 84.92 to 85.10 85.45-85.55: similar to 84.38 to 84.92 with very thin dark stringers along						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
		which sulphides are concentrated (<1%).						
		85.55-89.30: very fine grained, mottled dark grey and greenish grey; appears bleached in areas; quartz eyes up to 5mm in varying abundances from 1 to 5%; nil to trace sulphides.						
		89.30-99.98: fine grained, grey; foliation not as strongly developed as in top of hole, at approx. 60-70 degrees to core axis; lots of brecciated areas throughout core and small patches of rock as in interval 66.80-70.03, particularly over top 2m of this interval; chloritic filled cracks within brecciated zones; sulphides are highly variable-tend to be concentrated in breccia zones with chlorite; small zone at 91m - 1 to 2cm band with up to 50% pyrite; 99.00 to 99.40 - approx. 5% pyrite in clusters; 99.50 to 99.98 - 5% pyrite in euhedral to subhedral grains.						
		99.98-101.40: similar to interval 89.30 to 99.98 except very fine grained and darker grey.						
		101.40-101.90: alternating bands of smoky grey quartz and highly altered sulphide-rich bands; 5-10% over 1st 25cm; 101.65 to 101.73 - semi massive pyrite; 101.73-101.90 - brecciated						
		101.90-103.78: very fine grained dark grey homogeneous except for a few calcite stringers <1mm wide; coarsens over last 40cm; larger chlorite blebs.						
		103.78-103.96: fine grained, grey; banded appearance with narrow light and dark bands.						
		103.96-104.07: brecciated quartz/calcite rich zone with 10-15% pyrite						
		104.07-108.50: similar to 103.78 - 103.96 with occasional stringers of pyrite along foliation; 105.50-105.70 - brecciated quartz and sulphide rich zone- 10% pyrite lenses; increase in randomly oriented quartz stringers at bottom; chlorite rich 1cm band at 108.20.						
		108.50-108.60: similar to 72.82 to 76.50; altered rock; highly chloritic; no sulphides.						
		108.60-109.10: similar to 104.07 to 108.50 but contains abundant quartz eyes (5-10%) up to 2mm in size.						
		109.10-110.22: similar to 108.50 to 108.60; 109.55-109.75 - nearly entirely chlorite; broken core.						
		110.22-111.40: homogeneous fine grained grey - minor sulphides along 1 quartz stringer.						
		111.40-111.70: alternating bands of smoky quartz and pyrite (1-2cm at 50% pyrite); slightly brecciated.						
		111.70-117.15: similar to interval 89.30-99.98 but less brecciated and stronger foliation.						
		117.15-119.53: similar to above interval but slightly lighter grey colour						
		119.53-123.20: similar to interval 103.78 to 103.96 with large concentration of calcite gashes and brecciated patches over top 1.05m; little sulphides - 1 lens of pyrite at 120.23; quartz less common towards bottom.						
		123.20-123.55: large greenish yellow clasts elongated along foliation surrounded by dark grey; clasts up to 3cm long; highly chloritic						
		123.55-123.65: as in interval 103.78-103.96; 5% small quartz eyes up to 2mm in size.						
		123.65-124.00: same as interval 123.20 to 123.55						
			10747	85.20	86.60	1.40	0.00	
			10748	89.38	90.38	1.00	0.00	
			10749	90.38	91.38	1.00	0.00	
			10750	91.38	92.40	1.02	0.00	
			10751	92.40	93.40	1.00	0.00	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
			10752	93.40	94.40	1.00	0.00	
			10753	94.40	95.40	1.00	0.00	
			10754	95.40	96.40	1.00	0.00	
			10755	96.40	97.40	1.00	0.00	
			10756	97.40	98.40	1.00	0.00	
			10757	98.40	99.40	1.00	0.00	
			10758	99.40	100.40	1.00	0.00	
			10759	100.40	101.40	1.00	0.00	
			10760	101.40	102.00	0.60	0.00	
			10761	102.00	103.00	1.00	0.00	
			10762	103.00	103.80	0.80	0.00	
			10763	103.80	104.20	0.40	0.00	
			10764	104.20	105.20	1.00	0.00	
			10765	105.20	106.20	1.00	0.00	
			10766	106.20	107.20	1.00	0.00	
			10767	109.80	110.20	0.40	0.00	
			10768	111.30	111.80	0.50	0.00	
			10769	111.80	112.80	1.00	0.00	
			10770	112.80	113.80	1.00	0.00	
			10771	113.80	114.80	1.00	0.00	
			10772	114.80	115.80	1.00	0.00	
			10773	115.80	116.80	1.00	0.00	
			10774	120.00	120.40	0.40	0.00	
124.00	124.00	End of Hole						

Hole No.	F88-02	Northing	0+50N	Grid Orient	154	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	JAN. 17, 1988	Logged by	R. MARTIN
Property	SHOAL LAKE	Easting	0+20E	Grid Azim.	0	95.0	-	41						Finished	JAN. 18, 1988	Checked by	K. LEONARD
Section	0+20E	Elevation	325	Length (M)	95									Drill Co.	MIDWEST	Core	NO
Claim No.	K-895937 K-894177	Survey N.		Dip-Collar	-45									Drill No.		Comments:	
Target	65m	Survey E.		Comp Bearing	154									Drill For.	MARC BRETON		

K. Leonard

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au	Au
							g_tonne	oz_ton

SUMMARY

0.00	3.50	Casing						
3.88	8.87	Tuffaceous Sediments						
8.87	15.67	Altered felsic intrusive						
15.67	18.29	Felsite						
21.26	28.16	Clastic Tuff Sediment						
28.10	54.98	Tuffaceous Sediment						
54.98	95.00	Felsic Intrusive						
95.00	95.00	End of Hole						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
0.00	3.50	Casing						
	3.50 - 3.88	Granite (possibly granitic boulders)						
3.88	8.87	Tuffaceous Sediments 3.88-7.38: Light grey green, fine grained; fragments <2mm consisting mainly of calcite; some calcite fragments looks to have been mobilized causing stringers; minor amounts of quartz eyes (rounded and sometimes angular); calcite stringers are concordant to foliation as well as in blotches; fracture surfaces are chloritized. 7.38-8.87: grey fine grained unit has been mineralized with approx. 1.5 to 2% pyrite; looks as if the pyrite could have replaced quartz eyes; calcite stringers less abundant as well as the degree of chloritization.	10775	7.38	8.87	1.49		
8.87	15.67	Altered felsic intrusive Granitoid; light grey green; fine to medium grained; quartz rich possibly biotite and feldspar (plag); quartz eyes prominent feature, approx. 2mm to 7mm; stringers of chlorite and calcite concordant to foliation; fracture surfaces are green and greasy; some pyrite mineralization.	10776	13.69	14.14	0.45		
15.67	18.29	Felsite Light green, fine grained; contact evident at 18.29; quartz eyes present but are less in abundance than section 8.87-15.67); quartz eyes also smaller; pyrite disseminated; calcite stringers run throughout fractures.	10777 10778	15.67 16.89	16.89 17.89	1.22 1.00		
	18.29 - 21.26	Medium grained, same as 8.87-15.67; this unit has a higher percentage of quartz Unit has a brecciated character with biotite and possibly chlorite infilling fractures; small quartz vein is located at 18.81 to 18.94 with small amount of pyrite mineralization.	10779 10780 10781	17.89 18.79 19.34	18.46 19.34 19.91	0.57 0.55 0.57		
21.26	28.16	Clastic Tuff Sediment Fine grained; white feldspars (plag) crystals are prominent as well as aligned calcite crystals; fragments are at times present; calcite stringers cut rock unit at 60 degrees to core axis; feldspar becomes more abundant and more lineated at 25.80; some mineralization on fracture surface and some cubic pyrite less than 1%; some chalcopryite in calcite veins.	10782 10783	22.37 24.85	22.87 25.35	0.50 0.50		
28.10	54.98	Tuffaceous Sediment Fine grained, light grey argillite sediments or possibly fine grained tuffaceous sediments; unit subjected to gradational changes; mineralization shows lineation; pyrite is disseminated and euhedral; some remanent fragments chalcopryite bleb at 29.85m. 32.00-32.20: slightly sericitized; light green appearance on fracture surface; calcite stringers very common following fractures which are concordant and and discordant to foliation. 36.80-37.30: increase in biotite; white fragments present; calcite scattered as but with some lineation. 42.90-43.20: mineralized zone (pyrite approx. 2-2.5% filling fractures) associated with calcite stringers. 45.42-46.17: quartz vein 40 cm wide with chlorite and mudstone infilling fractures. 47.00-47.40: calcite fragments (rounded) more abundant; some fragments are						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
		elongated and show lineation.						
		47.40-47.60: alternating bands of pyrite and calcite stringers; pyrite approx. 3%.	10784	28.10	29.00	0.90		
			10785	29.30	30.44	1.14		
			10786	32.00	33.22	1.22		
			10787	33.74	34.23	0.49		
			10788	36.79	37.33	0.54		
			10789	38.48	39.08	0.60		
			10790	40.50	41.00	0.50		
			10791	42.60	43.48	0.88		
			10792	45.05	46.25	1.20		
			10793	47.00	48.00	1.00		
			10794	48.00	48.40	0.40		
			10795	52.20	53.00	0.80		
			10796	53.30	53.80	0.50		
54.98	95.00	Felsic Intrusive						
		Fine to medium grained, foliation defined by biotite oriented at approx. 50 deg to core axis. Euhedral pyrite; irregular calcite stringers; rare quartz eyes; similar to 18.29-21.26 in colour.						
		63.33-65.80: zone of alteration (sericitization); greenish tone of fractures; increase in dark fragments (possibly chlorite and calcite); abundant carbonate stringers.						
		65.10-65.40: mineralized section concordant to foliation; approx. 2-3% pyrite in association with calcite stringer ; non-mineralized section light grey, fine grained and homogenous in appearance (Pogson Zone?).						
		69.87-70.47: area is slightly brecciated; chlorite/biotite infilling fractures; fragments of calcite and quartz eyes are common; calcite stringers; <1% disseminated pyrite.						
		86.00-86.60: biotite/quartz content increases ; medium grain size; foliated.						
		86.60-87.50: aphanitic; possibly sericitized zone or a fine grained felsite; similar to 15.67-18.29 but dark green in colour.						
		87.50-89.00: medium grained; well foliated biotite/quartz rich intrusive; quartz eyes and quartz veining present.						
		89.00-95.00: Aphanitic felsite						
		89.50-89.90: quartz vein, some pyrite mineralization; quartz fractured with chlorite and biotite infilling. Felsite has chloritic stringers throughout fracturing and calcite ; disseminated pyrite; small fragments of quartz and calcite are common; some dark biotite and chlorite fragments.	10797	55.19	55.69	0.50		
			10798	58.30	59.00	0.70		
			10799	60.50	61.70	1.20		
			10800	63.36	64.36	1.00		
			10801	64.36	64.86	0.50		
			10802	64.86	65.86	1.00		
			10803	68.18	68.95	0.77		
			10804	71.00	71.50	0.50		
			10805	72.41	73.44	1.03		
			10806	74.00	75.00	1.00		
			10807	75.00	76.20	1.20		
			10808	76.65	77.75	1.10		
			10809	77.75	78.75	1.00		

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Au oz_ton
			10810	79.50	80.00	0.50		
			10811	80.55	81.35	0.80		
			10812	81.35	82.05	0.70		
			10813	82.61	83.11	0.50		
			10814	85.10	86.00	0.90		
			10815	88.10	89.00	0.90		
			10816	89.00	90.50	1.50		
			10817	92.00	93.10	1.10		
			10818	93.50	95.00	1.50		
95.00	95.00	End of Hole						

Hole No.	CASING IN HOLE P88-03	Northing	0+50N	Grid Orient	154	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	JAN 18, 1988	Logged by	JOANNE PAUL
Property	SHOAL LAKE	Easting	0+50W	Grid Azim.	0	119.0	-	42						Finished	JAN 19, 1988	Checked by	KEVIN LEONARD
Section	0+50W	Elevation	1325	Length (M)	119									Drill Co.	MIDWEST DRILLING	Core	NG
Claim No.	K-895937 K856179	Survey N.		Dip-Collar	-45									Drill No.		Comments:	CASING IN HOLE
Target	50M VERT. POG. SH.	Survey E.		Comp Bearing	154									Drill For.	MARC BRETON		

Kevin Leonard

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au	Ag
							g_tonne	g_tonne

SUMMARY

0.00	3.90	CASING
3.90	9.62	Tuffaceous Sediments
6.70	9.62	Felsic Intrusion
9.62	16.18	Felsite
16.18	30.60	Tuffaceous Sediments
30.60	37.04	Felsite
37.04	42.97	Tuffaceous Sediments
42.97	44.42	Felsic Intrusion
44.42	45.78	Felsite
45.78	47.10	Tuffaceous Sediments
47.10	47.52	Felsite
47.52	63.13	Tuffaceous Sediments
63.13	63.79	Felsic Intrusion
63.79	91.00	Tuffaceous Sediments
91.00	92.30	Felsic Intrusion
92.30	94.20	Tuffaceous Sediments
94.20	99.75	Felsite
99.75	100.24	Felsic Intrusion
100.24	119.00	Felsite

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Ag g_tonne
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119.00 119.00 End of hole

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Ag g_tonne
0.00	3.90	CASING						
3.90	9.62	Tuffaceous Sediments 3.90-5.60: dark grey, fine-medium grained; chloritic; higher concentration of quartz/carbonate stringers at top; foliation pervasive throughout hole at 45-50deg. to C.A.; rusty along some fractures; 1-2% sulphides locally along foliation 5.60-5.90: similar to above but lighter grey in colour 5.90-6.70: similar to interval 3.90-5.60 except medium grained and mottled light and dark	10819	3.90	4.90	1.00		
			10820	4.90	5.90	1.00		
			10821	5.90	6.70	0.80		
6.70	9.62	Felsic Intrusion 6.70-9.30: narrowly banded greenish-yellow and grey; small quartz eyes increasing in abundance downwards; one inclusion of overlying lithology at top of interval 9.30-9.62: similar to above but greyer in colour and increase in quartz and carbonate	10822	6.70	7.70	1.00		
			10823	7.70	9.00	1.30		
9.62	16.18	Felsite 9.62-14.10: greenish-yellow at top grading into grey-green and back into greenish-yellow at bottom; very fine grained; foliation poorly developed; quartz eyes more abundant at bottom; 2-3% pyrite in lenses 14.10-16.18: banded light and dark greenish grey; increase in calcite filled veinlets and gashes; minor localized pyrite	10824	9.00	10.50	1.50		
			10825	10.50	12.00	1.50		
			10826	12.00	13.50	1.50		
			10827	13.50	14.17	0.67		
			10828	14.80	15.20	0.40		
16.18	30.60	Tuffaceous Sediments dark grey, very fine grained; abundant carbonate veins; becomes increasingly more banded and lighter in colour downwards; minor felsic eyes towards bottom; 2-3% pyrite in blebs and clusters along foliation 19.63-19.70: pale yellow band with 25% elongated quartz eyes and chlorite blebs	10829	17.00	18.50	1.50		
			10830	18.50	20.00	1.50		
			10831	20.00	21.50	1.50		
			10832	21.50	23.00	1.50		
			10833	23.00	24.50	1.50		
			10834	24.50	26.00	1.50		
			10835	26.00	27.50	1.50		
			10836	27.50	29.00	1.50		
			10837	29.00	30.50	1.50		
30.60	37.04	Felsite greenish-yellow, very fine grained; occasional carbonate veinlets; gradational contact at top, sharp at bottom; two patches of overlying rock within; 1% pyrite in clusters along foliation 32.4-32.6: 5% pyrite in quartz/carbonate vein	10838	30.50	32.00	1.50		
			10839	32.00	33.00	1.00		

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Ag g_tonne
			10840	33.00	34.50	1.50		
			10841	34.50	36.00	1.50		
			10842	36.00	37.00	1.00		
37.04	42.97	Tuffaceous Sediments similar to interval 16.18-30.60 except fine grained; sulphides more sporadic	10843	37.00	38.00	1.00		
			10844	40.00	41.00	1.00		
			10845	41.00	42.00	1.00		
42.97	44.42	Felsic Intrusion similar to interval 6.70-9.30 with more quartz eyes	10846	42.00	43.00	1.00		
			10847	43.80	44.20	0.40		
44.42	45.78	Felsite same as interval 30.60-37.04; trace sulphides						
45.78	47.10	Tuffaceous Sediments same as interval 16.18-30.60 with up to 5% localized pyrite						
47.10	47.52	Felsite same as interval 30.60- 30.07 with some larger quartz eyes up to 5mm.						
47.52	63.13	Tuffaceous Sediments 47.52-48.40: similar to interval 16.18-30.60 48.40-53.82: slight coarsening of unit with visible increase of quartz and more sheared in spots; quartz/carbonate/chlorite veins up to 40cm long; up to 5% pyrite locally associated with veins, trace chalcopyrite 53.82-56.30: homogeneous medium grained sediments with minor quartz/carbonate stringers 56.30-57.25: very fine grained, dark grey with bands of lighter grey material along which sulphides are concentrated; 10% pyrite locally 57.25-57.54: main mineralized zone; banded sulphides within quartz/carbonate veins within sediments; 5-10% pyrite overall, locally up to 40% 57.54-58.20: similar to interval 16.18-30.60; trace sulphides 58.20-59.05: alternating grey and greenish yellow bands; trace to 1% sulphides 59.05-60.00: similar to interval 16.18-30.60; coarsens downwards; decrease in quartz/carbonate veins 60.00-63.16: same as interval 56.30-57.25	10848	49.50	50.50	1.00		
			10849	50.50	51.56	1.06		
			10850	51.80	52.80	1.00		
			10851	52.80	53.80	1.00		
			10852	56.30	57.25	0.95		
			10853	57.25	57.65	0.40		
			10854	57.65	58.20	0.55		
			10855	58.20	59.05	0.85		
			10856	59.05	60.00	0.95		
			10857	60.00	61.00	1.00		
			10858	61.00	62.00	1.00		
63.13	63.79	Felsic Intrusion medium grained, grey; felsic grains up to 5mm and chlorite grains stretched along foliation	10859	62.00	63.16	1.16		
63.79	91.00	Tuffaceous Sediments 63.79-68.63: same as interval 56.30-57.25 68.63-91.07: grey, fine-medium grained; abundant chlorite blebs along						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au g_tonne	Ag g_tonne
		foliation; becomes finer grained downwards; localized sulphides- 10% pyrite in bands with quartz/carbonate veining at 76.75-76.85; sulphides sporadic elsewhere- 1-2% maximum						
		85.58-85.74, 87.25-87.65, 89.08-89.26: three zones- light grey in colour, fine to locally medium grained; higher quartz content; minor sulphides on some oblique fractures						
			10860	63.90	64.90	1.00		
			10861	64.90	65.90	1.00		
			10862	65.90	66.90	1.00		
			10863	66.90	67.70	0.80		
			10864	67.70	68.63	0.93		
			10865	68.63	69.63	1.00		
			10866	73.80	74.20	0.40		
			10867	76.60	77.00	0.40		
			10868	77.40	78.40	1.00		
			10869	79.50	80.50	1.00		
			10870	80.50	81.50	1.00		
			10871	81.50	82.50	1.00		
			10872	82.50	84.00	1.50		
			10873	84.00	85.50	1.50		
			10874	85.50	87.00	1.50		
			10875	87.00	88.50	1.50		
			10876	88.50	90.00	1.50		
			10877	90.00	91.00	1.00		
91.00	92.30	Felsic Intrusion banded quartz eye felsic intrusion						
			10878	91.00	92.30	1.30		
92.30	94.20	Tuffaceous Sediments similar to interval 68.63-91.07						
			10879	92.30	93.30	1.00		
			10880	93.30	94.20	0.90		
94.20	99.75	Felsite similar to interval 30.60-37.04; small greyish quartz eyes occasionally						
			10881	94.20	95.20	1.00		
				0.00	0.00	0.00		
99.75	100.24	Felsic Intrusion similar to interval 91.00-92.30; trace granular pyrite						
100.24	119.00	Felsite similar to interval 94.20-99.75						
		105.00-113.30: contains inclusions of sediments, often brecciated						
119.00	119.00	End of hole						



Name and Address of Recorded Holder: **GLA**
St. Joe Canada Inc.

111 Richmond St. W. Suite 1116 Toronto Ontario M5H 2J4

Total Work Days Cr. claimed 1108	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
(for Performance of the following work. (Check one only)) <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	K	974286	20	K	974278	20	K	974270	20
		974285	20		974277	20		974269	20
		974284	20		974276	20		974268	20
		974283	20		974275	20		974267	20
		974282	20		974274	20		974266	20
		974281	20		974273	20		974265	20
		974280	20		974272	20		974264	20
		974279	20		974271	20		974263	20

All the work was performed on Mining Claim(s): **K856177 (576 mandays)**, **K856179 (532 mandays)**

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

Hole	Line	Station	Dip	Azimuth	Depth (m)	Date Started	Date Completed
P88-01	1+10E	0+65N	-45°	153°	124	Jan 15	Jan. 17/88
P88-02	0+20E	0+50N	-45°	154°	95	Jan 17	Jan 18/88
P88-03	0+50W	0+50N	-45°	154°	119	Jan 18	Jan. 19/88

Contractor: **Midwest Drilling**
 RESEARCH OFFICE
 180 Cree Crescent.
 Winnipeg Manitoba
 FEB 8 1988
 RECEIVED

KENORA MINING DIV.
RECEIVED
 JAN 22 1988
 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Date of Report: **Jan. 22 1988**
 Recorded Holder or Agent (Signature): *[Signature]*

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:
886 Tanager Avenue Burlington Ontario
L7T 2Y2.
 Date Certified: **January 22/88**
 Certified by (Signature): *[Signature]*

Type of Work	Specific Information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work /operated equipment, 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	974257	
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.	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

#16/88

St. Joe Canada Inc.

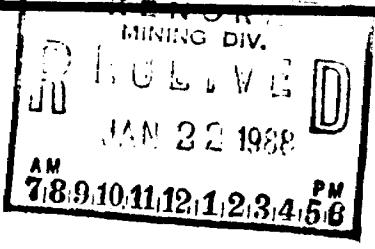
Mining Claim

Work Days Credit

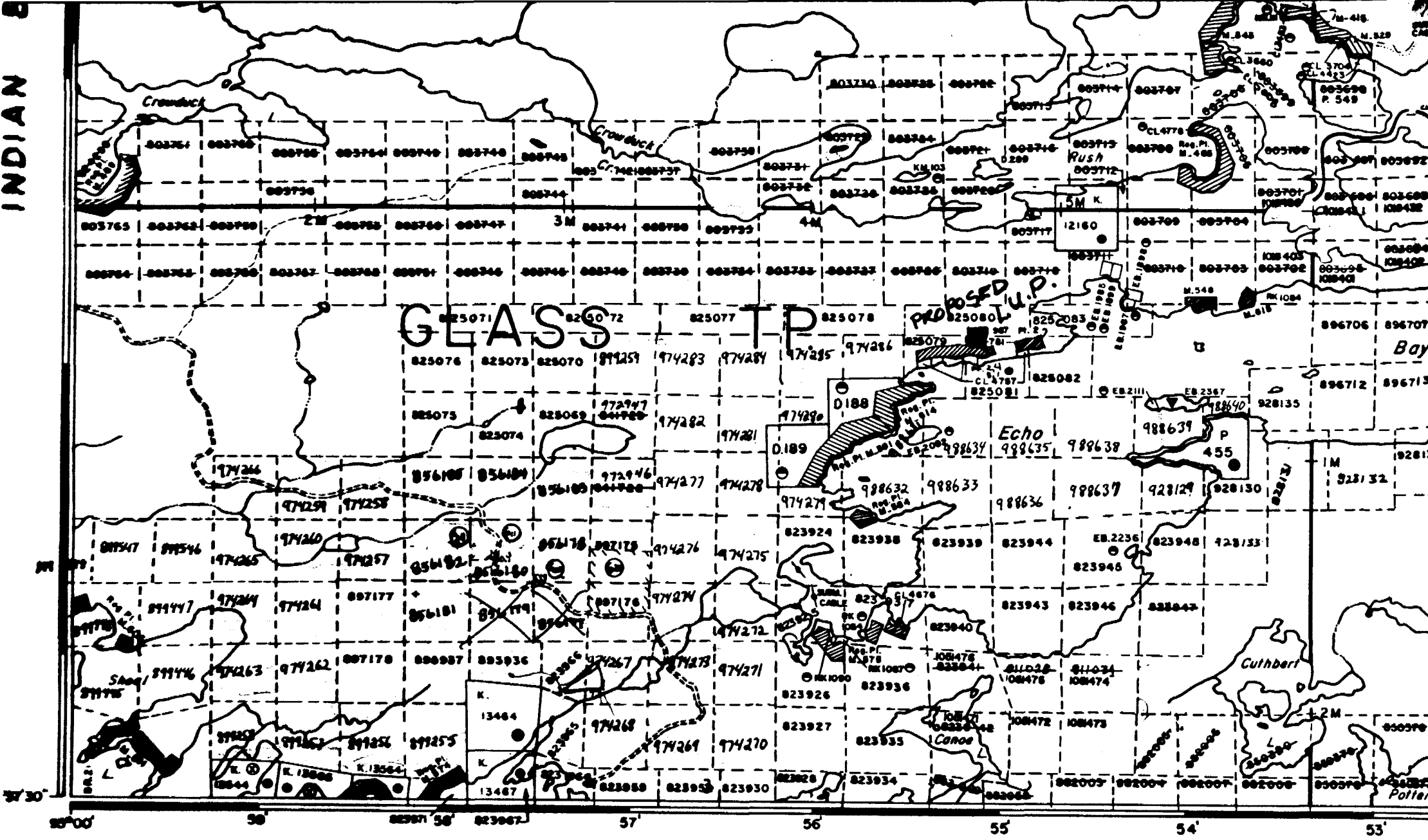
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974260	20
974261	20
974262	20

28
24
52

} OK to record



52



SHOAL LAKE