

DIAMOND DRILLING



42A11NE0544 20 EVELYN

010

TOWNSHIP: Evelyn

REPORT No.: 20

WORK PERFORMED BY: St. Joe Inc.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 452498	AL82-01	728.0	Dec/82	(1)

NOTES: (1) #42-83 (Matheson Twp.)

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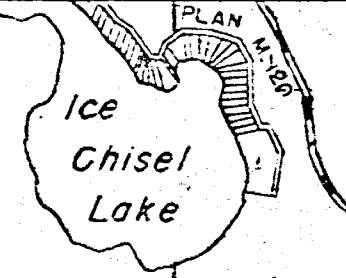
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652713 652762 652761 652746 652743 652733 652730 652729 652728 652718 652734 652736 652749 652750 652720 652721 683510 683515

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Evelyn Twp # 42 (MATHESON Twp) ST. JOE INC. HOUSE

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DIAMOND DRILL RECORD

NAME OF PROPERTY Allerston Option
 HOLE NO. AL82-01 LENGTH 221.9m (728ft)
 LOCATION Claim 452498 L1200E 850N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -50°
 STARTED December 6, 1982 FINISHED December 17, 1982

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50°	180			
121m	-24°				
214m	-23°				

HOLE NO. AL82-01 SHEET NO. 1 of 6
 REMARKS BQ core
 LOGGED BY Ben Berger

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au	Ag	Cu	Zn	Pb	
					FROM	TO	TOTAL						
0	53.6m	Overburden; clay, sand, till pressure seam at 42m											
53.6m	54.7m	Andesite to Basalt - dark green, massive, medium grained, several calcite stringers approximately 30° to core axis											
54.7m	59.7m	Andesite to Dacite - light grey-green, massive to tuffaceous, plagioclase rich, medium to fine grained avg. less than 1% qtz. avg. less than 1% py. 57.4 - calcite vein - barren 40° to core Axis 58 - increase in silica 1 to 3% qtz "eyes" increase in pyrite 1 to 2%											
59.7m	60.3m	Basalt - dark grey, very soft, talc-rich, minor chlorite as stringers											
60.3m	94.3m	Andesite - flows and tuffs, grey-green, massive to flow brecciated, 1% py, carbonate, pervasive 1-5% 61 - flow breccia, fragments stretched 50° to core axis, up to 5cm long 62 - 62.6 - qtz. carbonate vein with alteration halo, alteration consists of light green silica, carbonate, sericite and 5% py, 55° to core axis 54.5 - qtz. vein, 45° to core axis, vuggy with trace py	9401	5	62	62.6	60cm	Nil	.2	39	45	59	

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DIAMOND DRILL RECORD

NAME OF PROPERTY Allerston Option

HOLE NO. AL82-01 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			Au	Ag	ASSAYS Cu	Zn	Pb		
FROM	TO		NO.	% SULPH IDES	FOOTAGE		ppb	ppm	ppm	ppm	ppm	
					FROM	TO	TOTAL					
60.3m	94.3m	68 - 69 - 5-10% pyrite with pervasive carbonate alteration 2-5% of rock	9402	5-10	68	69	1m	Nil	.2	52	82	48
		71 - 72 - very fine grained, flow contact 40° to core axis										
		72.4 - flow breccia, fragments up to 2cm, trace py carbonate spots										
		74.5 - 74.6 - vuggy qtz. vein - barren										
		76.5 - flow breccia with less than 1% py										
		79 - quartz-chlorite-carbonate alteration zone banded ribbons of alternating quartz-chlorite and carbonate; 50° to core axis										
		80.2 - 81.7 - increase in py - 2-10%; 1-2% quartz	9403	2-10	80.2	81.7	1.5m	Nil	Nil	43	64	43
		87.4 - 87.8 - sulphide stringers 40° to core axis up to 10% pyrite	9404	10	87.4	87.8	40cm	Nil	Nil	52	68	33
		92.1 - 92.4 - flow breccia, fragments up to 5cm 2-5% py.										
94.3m	97.3m	Basalt - dark green, chloritic, soft, minor carbonate, trace pyrite										
97.3m	203.4	Andesite - mixed flow and tuffs, minor greywacke and epiclastic interbeds; grey-green, fine to coarse grained, 2-5% pervasive carbonate alteration, trace-1% py										
		99.4 - qtz.-seam 30° to core axis, 15-20% py as cubes										
		102.9 - 103 - flow breccia										
		108 - 108.4 - andesite tuff, contact 50° to core axis fragments up to 27mm, coarsens towards top of section.										

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DIAMOND DRILL RECORD

 NAME OF PROPERTY Allerston Option

 HOLE NO. AL82-01

 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
					FROM	TO	TOTAL					
97.3m	203.4	110 - qtz-chlorite-carbonate alteration seam, like the one at 79m, trace pyrite.										
		111.1 - qtz-carbonate vein and alteration halo, (as at 62 - 62.5), 10% pyrite, 10° to core axis.										
		113.5 - 118.7 - swarm of quartz-carbonate veins, 21 all barren, no alteration surrounding veins.										
		121.8 - 121.9 - flow banding 55° to core axis										
		125.9 - 126 - alteration zone with qtz. stringers, pervasive carbonate alteration, 5-10% py light green										
		129 - 131.3 - tuff to lapilli - coarsens up section, 2-5% carbonate in matrix, quartz-carbonate veining and polymetallic seams containing py, cp, galena, 1 speck fushite in tuff. Contact 40° to core axis, locally up to 5% pyrite, average trace pyrite	9405	tr	129	130	1m	30	.2	41	70	30
			9406	tr	130	131.3	1.3m	115	1.9	44	75	157
		132.1 - one fushite fragment 7mm										
		134.2 - qtz-carbonate vein with py and galena, alteration halo as at 62 - 62.5										
		141.9 - 142.2 - pervasive carbonate alteration, zoned polymetallic vein with pyrite, galena, sphalerite, 1 speck tourmaline, 30° to core axis.										
		- base metals are preferentially concentrated along down section contact of vein; only pyrite along upsection contact.										

DIAMOND DRILL RECORD

NAME OF PROPERTY Allerston Option

HOLE NO. AL82-01

SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
					FROM	TO	TOTAL					
97.3m	203.4	145 - qtz-carbonate vein, zoned with pyrite, galena, sphalerite, muscovite										
		150 - 153 - average 2-5% py, 5-10% carbonate in andesite matrix	9407	2-5	150	151	1m	30	.2	23	44	40
			9408	2-5	151	152	1m	Nil	Nil	22	45	22
			9409	2-5	152	153	1m	Nil	Nil	23	47	23
		154.8 - 155.6 - qtz. carbonate vein parallel to core axis with chlorite, pyrite and galena surrounded by alteration halo composed of light green carbonate-silica and trace pyrite	9410	tr	154.8	155.6	80cm	30	3.2	28	40	483
		161 - 162 - carbonate alteration increases to 25-50% several qtz. stringers 30-40° to core axis with pyrite and galena, rock is light grey to grey-green, very hard.	9411	2	161	162	1m	10	0.5	27	54	99
		166 - 168 - increase in carbonate to 25-50% 2-5% py, qtz-carbonate vein with py and galena	9412	2-5	166	167	1m	10	Nil	29	60	41
			9413	2-5	167	168	1m	20	1.3	38	52	100
		169.4 - 169.9 - intense alteration, rock appears bleached, pervasive carbonate, chlorite stringers, minor qtz-carbonate breccia 5% py.	9414	5	169.4	169.9	50cm	10	Nil	11	25	29
		172.6 - 173 - intense carbonate - silica alteration of andesite, light green, hard rock, 5-10% py	9415	5-10	172.8	174.3	1.5	10	Nil	10	71	28
			9416	5	174.3	175.7	1.4	Nil	Nil	22	58	24
		174.2 - qtz.-carbonate vein 40° to core axis	9417	tr-5	175.7	177.2	1.5	20	.4	11	56	80
		174.2 - 183.1 - general increase in carbonate and silica alteration, numerous quartz stringers pyrite, galena up to 5% locally	9418	tr-5	177.2	178.7	1.5	10	Nil	13	89	29
			9419	tr-5	178.7	180.2	1.5	Nil	Nil	16	66	29
			9420	tr-5	180.2	181.7	1.5	30	Nil	24	64	29
		191.7 - slickensides 35° to core axis	9421	tr-5	181.7	183.1	1.4	60	Nil	51	77	30
		195.6 - polymetallic qtz-carbonate vein, zoned like vein at 141.9 - 142.2, 40° to core axis										

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DIAMOND DRILL RECORD

NAME OF PROPERTY Allerston Option

HOLE NO. AL82-01

SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
					FROM	TO	TOTAL					
97.3m	203.4	197.4 - 198.1 - qtz-carbonate vein with alteration halo like the one at 79; py, galena, chalcopyrite	9422	tr	197.3	198.1	80cm	80	.8	44	51	91
			9423	tr	198.1	199	90cm	60	.5	31	57	54
			9424	tr	199	200.5	1.5m	10	Nil	35	60	28
203.4	210.7	Alteration Zone	9425	tr	200.5	202	1.5m	30	Nil	12	63	28
		- marked by 3 distinct subsections	9426	tr	202	203.5	1.5m	30	Nil	18	80	30
		- 203.4 - 206.2 - intense bleaching of rock, carbonate pervasive up to 100% locally, sericite common	9427	5	203.5	203.7	20cm	140	.2	13	64	59
		silicification pervasive but only 5-25% of rock	9428	10	203.7	205	1.3m	135	Nil	15	46	23
		carbonate marked by large pink dolomitic rhombs from 204.7 - 204.9	9429	10	205	206	1m	30	Nil	6	30	29
		sulphides 10% pyrite on slip faces										
		minor clay										
		contact 50° to core axis										
		- 206.2 - 207.5 - intense carbonate alteration; clay increases as stringers and veins,	9430	10	206	207.5	1.5m	30	Nil	5	54	38
		chlorite-sericite prominent as dark green bands (50° to core axis) on a light green matrix, also dark green chlorite spots up to 1mm; in part mottled texture due to uneven distribution of carbonate and chlorite sericite; very little qtz veining	9431	15-20	207.5	209.5	2m	160	.3	5	42	41
		10% py mainly on slip faces.	9432	15-20	209.5	210.7	1.2m	30	Nil	6	67	29
		- 207.5 - 210.7 - marked by blue clay seams and pockets, spotted chlorite zones mixed with sericite and carbonate, several vuggy qtz. veins containing carbonate, pyrite and clay; 15-20% pyrite disseminated throughout section	9433	2-5	210.7	212.4	1.7m	30	.2	10	133	68

DIAMOND DRILL RECORD

NAME OF PROPERTY Allerston Option

HOLE NO. AL82-01 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au	Ag	Cu	Zn	Pb
					FROM	TO	TOTAL	ppb	ppm	ppm	ppm	ppm
210.7	221.9	Chlorite Schist - dark green rock, very fine grained, chlorite and clay locally present, carbonate Nil to 20%, very erratic, Pyrite 2-5%	9434	2-5	212.4	213.8	1.4m	Nil	.2	7	130	62
			9435	2-5	213.8	215.3	1.5m	Nil	Nil	36	55	38
			9436	5	216.7	218.3	1.6m	Nil	Nil	6	54	35
			9437	25	220		Grab	785	5.3	94	20	261
		- 218.4 - 218.7 - intense carbonate alteration, qtz-carbonate vein 5% to core axis, several specks fushite, 10% pyrite	9438	10	218.5	218.8	20cm	60	.2	26	14	40
		- 219.8 - 220 - graphite on slip faces, sulphides up to 25%										
	221.9	END OF HOLE										

Ben Berger

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