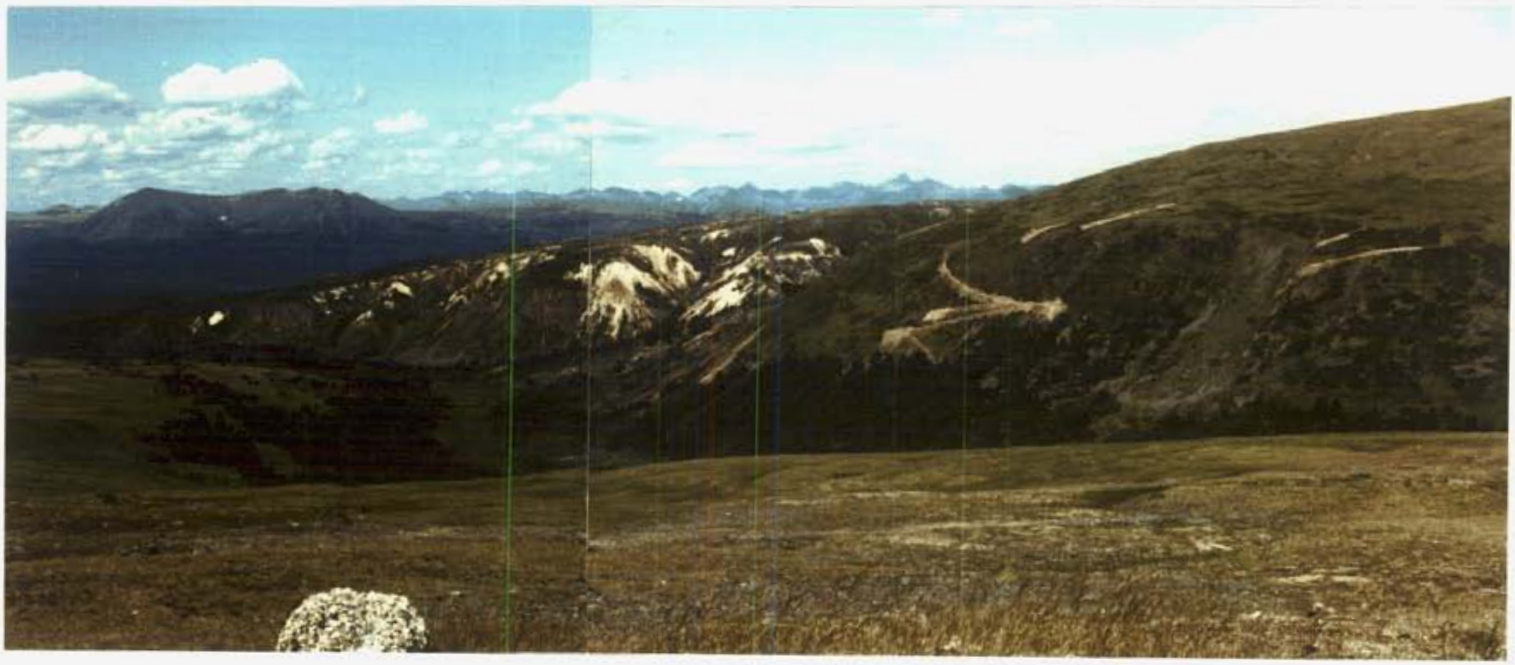
85-1090-14700
09/86

APPENDIX C

SELECTED PHOTOGRAPHS

FILMED

PART
2 OF 5



Looking down Cloud Creek. North Grid is located above gossanous cliffs. West Zone trenches, drill setups right side of photo.

Loading diamond drill onto Hercules Aircraft in Smithers, for transport to Toodoggone gold camp.

Quartz breccia outcrop, West Zone.

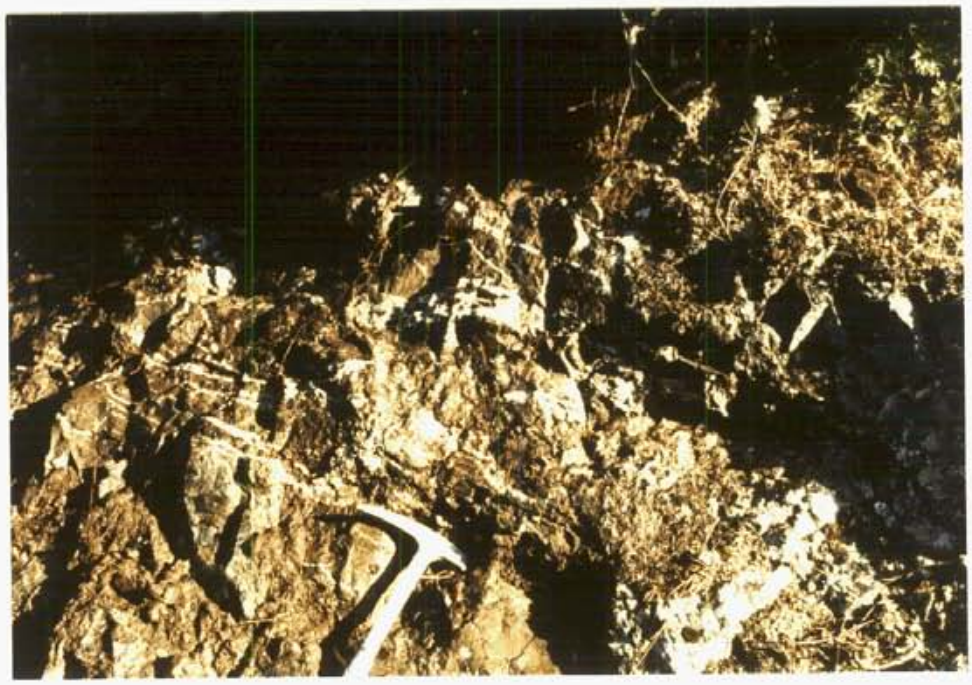
Closer view of the same outcrop.

Diamond drill on Silver Creek Zone.

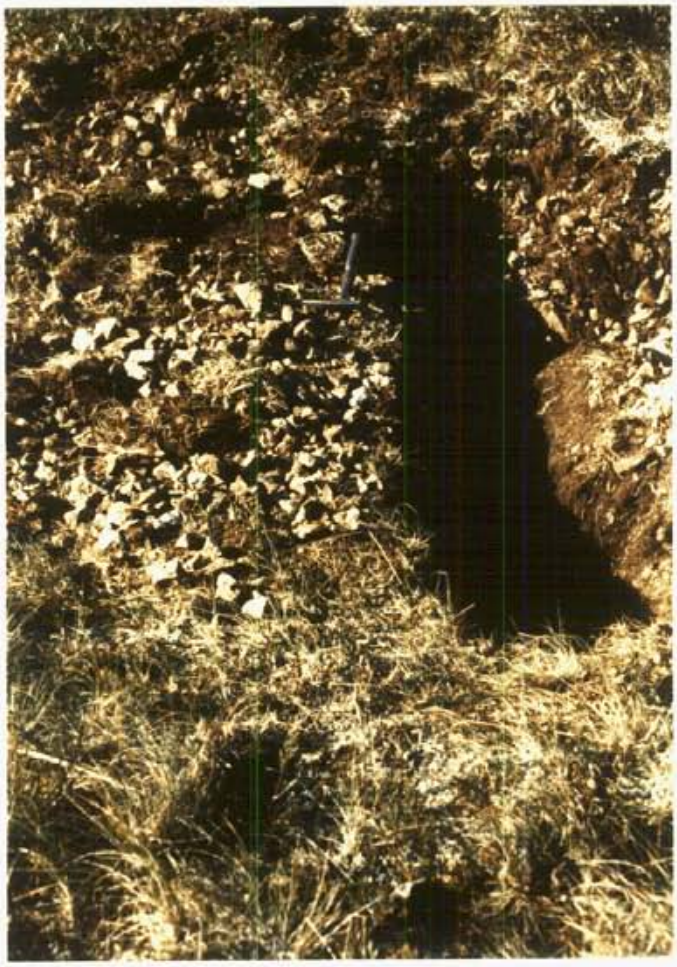
Sampling trench "G", Silver Creek area.

West Zone Trenches, fall 1985.

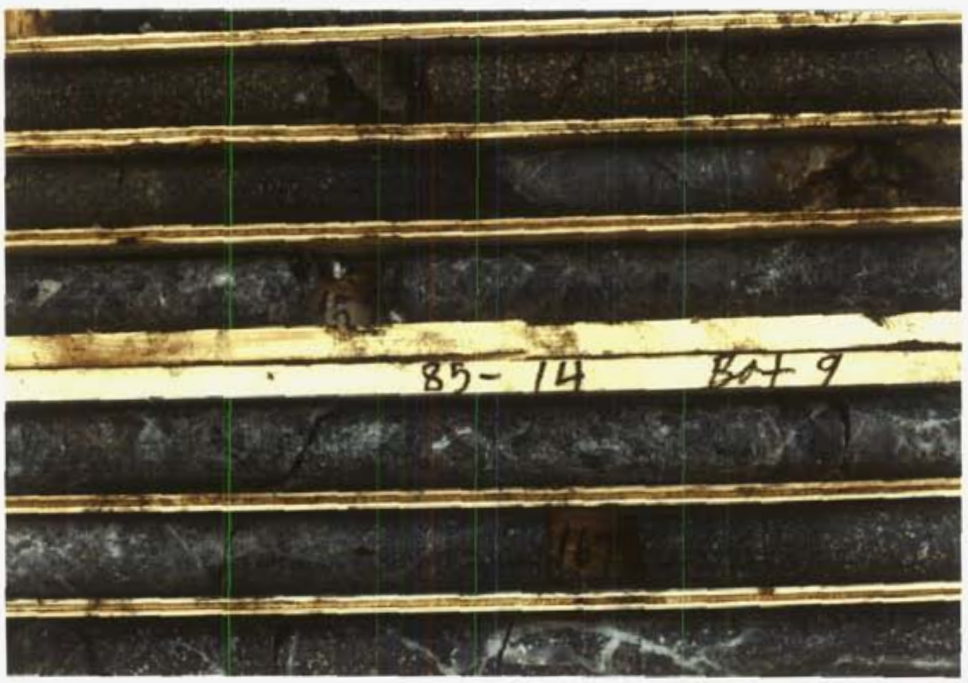
Drilling on West Zone, drill pads on Silver Creek Zone in background.



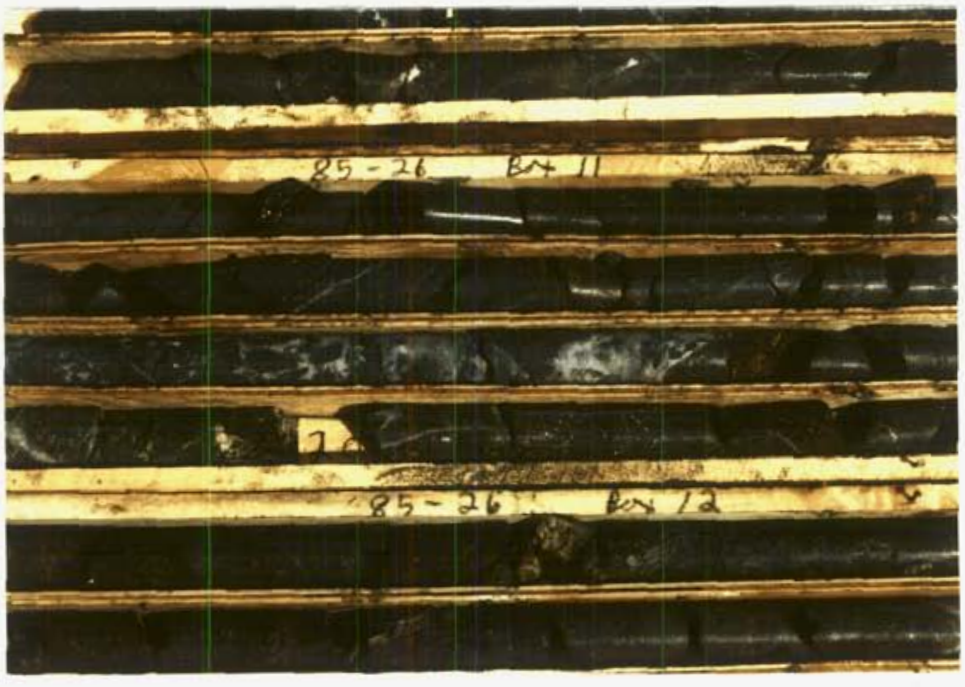
Quartz veining EOS Zone.



Hand trench in siliceous material, EOS grid.



Siliceous brecciated section in Hole 14, typical of Silver Creek intersections.



Quartz breccia zone in Hole 26, West Zone.

Vuggy silica/calcite zone in Hole 26m West Zone.

Detail of siliceous breccia zone, hole 19, Amethyst Zone.

Siliceous breccia zone, hole 20, Amethyst Zone.

APPENDIX D

DIAMOND DRILL LOGS

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 01

CORE SIZE: NQ

DATE STARTED: 26.06 1985
DATE COMPLETED: 27.06 1985
LOGGED BY: Andreas H. Vogt
DATE: 27.06 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L-0+00 0+52 SW (Silver Creek Grid)

TOTAL LENGTH: 74.98 m

SURVEY CO-ORDINATES: N 7214.20 E 7768.99

ELEVATION AT COLLAR: 1716.37

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 55°
74.98 m	N 044 E	- 54°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.93 Casing					
1 -							
2 -							
3 -							
4 -		3.92 - 41.61 propylitic altered porphyritic crystal tuff; pink, zoned partly to completely epidote altered fsp phenocrysts up to 0.8 cm Ø, chlorite altered mafic phenocrysts in an aphanitic, dark green, chloritic matrix; abundant MnOx on fracture planes vuggy, vugs empty or part filled with calcite minor mm calcite-epidote veining					
5 -		5.22 - 6.45 vugs filled with quartz and or calcite or open					
6 -							
7 -							
8 -		8.16 minor, limonitic fault zone 50° to c.a. abundant MnOx, fsp phenocrysts weakly clay altered (Layering 60°to core axis)					
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		11.07 - 11.33 abundant epidote on fractures as fine network					
12 -							
13 -		13.85 - 15.20 fine grained tuff; reduced amount of phenocrysts					
14 -							
15 -		Lithic fragments					
16 -		16.76 - 18.29 very weak argillic alteration of fsp phenocrysts abundant MnOx					
17 -			1001	17.0	18.0	L	3.4
18 -		18.29 - 20.37 weak silica - argillic altered porphyry; dark grey; very fine diss. pyrite apprx. 2% mm veinlets with quartz, chlorite, calcite 45° to core axis.	1002	18.0	19.0	L	6.9
19 -			1003	19.0	20.0	L	3.4
20 -		20.37 - 21.00 fault breccia, pyrite rich, 60° to fault axis	1004	20.0	21.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			1005	21.0	22.0	L	24.0
22 -		22.30 - 22.37 epidote - calcite structure to micro-breccia 30° to c.a.	1951	22.0	23.0	L	L
23 -		Calcite/epidote fractures 40° to c.a.	1952	23.0	24.0	L	L
24 -							
25 -		25.25 - 25.62 dark green matrix, approx. 1% diss. pyrite, hematitic stained fsp phenocrysts					
26 -							
27 -		27.81 minor fault zone with 20 mm dark grey fault gouge					
28 -							
29 -		29.55 - 30.03 hematitic staining of matrix and phenocrysts					
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -							
37 -		37.00 cm calcite veinlet 18° to core axis Mn Ox increase.					
38 -							
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.61 - 41.91 dark grey, pyrite rich fault gouge 41.91 - 44.11 propylitic porphyry with minor mm calcite/epidote/silica veining approx. 1% diss. pyrite, partly altered					
42 -			1435	42.0	43.0	L	L
43 -			1006	43.0	44.0	0.69	54.9
44 -		44.11 - 44.78 intensive quartz/silica/calcite/epidote stockwork to brecciation in siliceous, propylitic porphyry, veining 75° to core axis, apprx. 2% diss. pyrite Resampling - Vancouver Check	1007 1953 1953Van	44.0 44.2 44.2	45.0 44.6 44.6	3.77 4.11 4.21	106.3 174.9 178.0
45 -		44.78-47.63 quartz/silica/epidote/calcite veining to micro breccia (46.07-47.10) in siliceous slightly bleached porphyry with apprx. 1% diss.pyrite	1008	45.0	46.0	0.34	3.4
46 -			1009	46.0	47.0	0.69	6.9
47 -		47.63 - 47.75 fault gouge 47.75 - 50.40 some mm silica/calcite veinlets in weak siliceous, very weak argillic porphyry approx. 1% diss. pyrite anhedral to euhedral limonite along fractures	1010	47.0	48.0	0.34	3.4
48 -		48.90 - 50.40 quartz veining to porous micro brecciation	1011	48.0	49.0	L	L
49 -			1012	49.0	50.0	0.34	3.4
50 -		50.40 - 51.20 fault gouge and brecciated porphyry abundant diss. pyrite, MnOx	1013	50.0	51.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.20 - 53.64 silica veining to silica micro breccia in pyritic (up to 2%) siliceous, weak argillic (green clay mineral) porphyry veinlets 60° to core axis, mm to cm	1014	51.0	52.0	0.34	3.4
52 -			1015	52.0	53.0	0.34	3.4
53 -		53.64 - 56.70 grey green pyritic (apprx. 1%) propylitic (abundant chlorite/epidote) porphyry	1016	53.0	54.0	L	L
54 -			1017	54.0	55.0	L	L
55 -			1018	55.0	56.0	L	L
56 -			1019	56.0	57.0	L	L
		56.70 - 58.80 grey silica/calcite veinlets in propylitic (abundant epidote/chlorite) porphyry with minor diss. euhedral pyrite					
57 -			1020	57.0	58.0	L	L
58 -		58.80 - 60.59 propylitic porphyry	1021	57.0	58.0	L	L
59 -			1022	59.0	60.0	L	L
60 -		60.59 - 68.90 quartz/silica veining and breccia in weak siliceous, partly weak argillic altered propylitic porphyry veining 45° to core axis, calcite, diss pyrite up to several %	1023	60.0	61.0	0.34	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1024	61.0	62.0	L	L
62 -			1025	62.0	63.0	L	L
63 -			1026	63.0	64.0	0.34	3.4
64 -			1027	64.0	65.0	L	L
65 -			1028	65.0	66.0	L	L
66 -		66.20 - 66.86 fault breccia, pyrite rich minor (cm) fault zones 68.28, 68.78 with pyrite and minor argillic alteration	1029	66.0	67.0	L	3.4
67 -			1030	67.0	68.0	L	L
68 -		68.90 - 74.98 propylitic porphyry hematite stained fsp phenocrysts almost completely epidote altered; abundant chlorite, epidote in matrix; patchy zones of bleaching weak silification, vuggy, vugs filled with calcite, quartz (chlorite) lithic fragments. 68.97 silica veinlet 40° to core axis and epidote micro brecciation.					
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -							
72 -							
73 -							
74 -		74.98 m END OF HOLE					
75 -							
76 -							
77 -							
78 -							
79 -							
80 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 02

CORE SIZE: NQ

DATE STARTED: 27.06 1985
DATE COMPLETED: 28.06 1985
LOGGED BY: Andreas H. Vogt
DATE: 28.06 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+00 0+52 SW (Silver Creek Grid)

TOTAL LENGTH 93.27 m

SURVEY CO-ORDINATES 6,723.59 N 7,973.24 E

ELEVATION AT COLLAR 1650.03

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 70°
93.27 m	N 044 E	- 70°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.96 casing					
1 -							
2 -							
3 -							
		3.96 - 55.43 propylitic altered porphyritic crystal tuff with some lithic fragments hematitic stained fsp phenocrysts (0.7 cm) partly to completely altered to epidote, mafic phenocrysts altered to chlorite, aphanitic, dark-green matrix vuggy with vugs partly filled by calcite MnOx on fractures minor clay alteration of fsp phenocrysts in fractured zones, weak silicification indicated by bleaching of matrix					
4 -							
5 -							
		5.87 - 6.35 broken core.					
6 -							
7 -							
8 -							
9 -							
10 -							
		10.43 micro breccia with epidote, chlorite, calcite, 75° to c.a.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
			1956	10.70	11.20	L	6.9
		10.90 - 11.12 pyritic, dark green breccia and fault gouge 50° to core axis					
11 -							
12 -							
13 -		13.33 minor fault zone with brecciation 40° to core axis.					
14 -							
15 -							
16 -		16.00 - 16.10 fault gouge and breccia, lithic fragments.	1031	16.0	17.0	L	3.4
17 -		17.10 - 17.20 broken core, abundant Fe/MnOX.	1032	17.0	18.0	0.34	L
18 -		17.90 - 18.30 quartz in vugs, strong chloritization, epidotization, abundant pyrite, brecciation					
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.25 - 21.35 broken core (gouge ?) pyrite					
22 -							
23 -			1957	23.16	24.38	L	3.4
24 -		24.38 - 25.58 fault breccia with siliceous fragments, fault gouge, limonitic, abundant pyrite, weak argillic alteration, approx. 77 cm recovered, 64% recovery.	1958	24.38	25.58	0.34	17.1
25 -			1959	25.58	26.21	L	L
26 -							
27 -							
28 -							
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -		32.45 - 32.62 (fault) silica-epidote-chlorite calcite breccia, dark grey, pyritic fault gouge	1033	32.0	33.0	0.34	L
33 -							
34 -							
35 -							
36 -							
37 -							
38 -							
39 -							
40 -		40.00 - 40.25 broken core					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.45 Calcite veinlet 55° to c.a.					
42 -							
43 -							
44 -							
45 -							
46 -		46.42 - 46.92 veining 15° to core axis calcite (quartz, epidote, hematite) micro breccia	1034	46.0	47.0	L	3.4
47 -							
48 -							
49 -							
50 -		50.50 - 55.43 weak silicification, matrix bleached 50.70 cm silica/calcite/epidote/pyrite veinlet 20° to core axis.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -							
53 -		53.04 cm silica/calcite veinlet 17° to c.a. 53.60 cm calcite/quartz/pyrite micro breccia 65° to core axis.	1035	53.0	54.0	L	3.4
54 -			1036	54.0	55.0	0.69	3.4
55 -		55.43 - 66.10 silicified porphyry (propylitic) silica-epidote-calcite veining in siliceous propylitic porphyry, abundant pyrite, up to several percent.	1037	55.0	56.0	0.34	3.4
56 -			1038	56.0	57.0	0.34	3.4
57 -		57.36 - 57.38 silica-epidote-pyrite micro breccia with open space anhedral quartz crystals	1039	57.0	58.0	L	L
58 -		58.30 silica-epidote-pyrite veinlet, 10° to core axis	1040	58.0	59.0	1.37	6.9
59 -			1041	59.0	60.0	L	3.4
60 -			1042	60.0	61.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1043	61.0	62.0	L	6.9
62 -			1044	62.0	63.0	L	6.9
63 -		63.95 - 65.15 intensive silica/calcite veining to stockwork	1045	63.0	64.0	1.71	3.4
64 -			1046	64.0	65.0	L	3.4
65 -		65.50 - 65.60 fault gouge and breccia	1047	65.0	66.0	0.34	L
66 -		66.10 - 84.05 weakly silicified propylitic porphyry abundant pyrite, appox. 1% minor silica and calcite veining.	1048	66.0	67.0	L	L
67 -			1049	67.0	68.0	1.37	3.4
68 -			1436	68.0	69.0	L	6.9
69 -			1437	69.0	70.0	L	L
70 -		70.78 - 72.60 fault breccia	1438	70.0	71.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -			1960	71.0	72.0	L	L
			1050	71.0	72.0	L	3.4
72 -			1961	72.0	73.0	L	L
			1051	72.0	73.0	L	3.4
73 -			1962	73.0	74.0	L	L
			1052	73.0	74.0	L	3.4
74 -		74.20 - 74.70 fault breccia	1963	74.0	75.0	L	L
			1053	74.0	75.0	L	3.4
75 -		75.00 - 76.50 silica veining	1964	75.0	76.0	0.34	L
			1054	75.0	76.0	0.34	L
76 -		76.50 - 78.03 no core (bullnose through broken bit)	1965	76.0	77.0	1.03	L
			1965Van	76.0	77.0	1.65	4.2
		76.00 - 76.50	1055	76.0	76.50	15.77	13.7
			1055RR	76.0	76.50	5.49	6.9
			1055RR	76.0	76.50	4.11	6.9
		(1055 A & B are splits of 1055 reject)	1055ARS	76.0	77.0	4.8	3.4
			1055BRS	76.0	77.0	15.09	3.4
			1055AVan	76.0	77.0	4.82	6.7
			1055BVan	76.0	77.0	10.4	8.0
77 -							
78 -			1056	78.0	79.0	L	L
79 -			1057	78.0	79.0	L	L
80 -			1058	80.0	81.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			1059	81.0	82.0	0.34	3.4
82 -			1061	82.0	83.0	0.34	3.4
83 -		83.70 - 83.80 fault breccia and gouge 83.70 - 93.27 propylitic porphyry hematitic stained fsp phenocrysts; abundant chlorite, epidote patchy zones of bleaching = weak silicification, few silica/calcite veinlets.	1061	83.0	84.0	L	3.4
84 -							
85 -							
86 -							
87 -							
88 -			1062	88.0	89.0	L	L
89 -							
90 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -							
92 -							
93 -		93.27 m END OF HOLE					
94 -							
95 -							
96 -							
97 -							
98 -							
99 -							
100 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 03

CORE SIZE: NQ

DATE STARTED: 28.06 1985
DATE COMPLETED: 28.06 1985
LOGGED BY: Andreas H. Vogt
DATE: 29.06 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+25 NW 0+50 SW (Silver Creek Grid)

TOTAL LENGTH 73.46 m

SURVEY CO-ORDINATES 6743.14 N, 7958.80 E

ELEVATION AT COLLAR 1647.63 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 50°
73.46 m	N 044 E	- 45°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 4.45 casing					
1 -							
2 -							
3 -							
4 -		4.45 - 4.65 boulders of Sustut, sandstone, grey wacke, conglomerate 4.65 - 38.85 propylitic altered porphyritic crystal tuff with some lithic fragments, hematitic stained fsp phenocrysts partly to completely altered to epidote (starting from the center)					
5 -		fsp up to 0.7 cm Ø mafic phenocrysts altered to chlorite and epidote, aphanitic, dark green matrix, partly vuggy, calcite in matrix and vugs aggregates of chlorite, epidote, MnOx staining on fractures.					
6 -							
7 -							
8 -							
9 -		9.24 mm silica veinlet and 2 cm zone of difuse silicification.					
10 -		10.25 broken core, MnOx fault ?					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -		15.66 broken core, minor fault breccia approx. 45° to core axis.					
16 -							
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -							
24 -							
25 -							
26 -		26.00 ± diss. pyrite 26.75 cm calcite veinlet, 45° to core axis MnOx					
27 -		27.55 - 28.04 broken core with fault breccia at 27.70 - 27.75					
28 -							
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -							
37 -							
38 -		Intensive epidotization. 38.62 mm quartz veinlet, 60° to core axis, ± pyrite 38.85 - 39.05 quartz/calcite veining to stockwork, ± pyrite	1970 1971	38.8 39.0	39.0 40.0	1.37 L	3.4 L
39 -		38.85 - 56.60 weak siliceous propylitic porphyry with silica-calcite-pyrite veining in approx. 20 cm intervals. approx. 1% diss. pyrite.					
40 -		40.56 silica-calcite-pyrite veinlet 58° to c.a. 40.71 silica-calcite-pyrite veinlet 50° to c.a.	1063	40.0	41.0	0.69	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -			1064	41.0	42.0	L	L
42 -			1065	42.0	43.0	L	3.4
43 -		43.28 - 43.65 silica-calcite-epidote stockwork and micro brecciation 60° to core axis	1066	43.0	44.0	0.34	6.9
44 -			1067	44.0	45.0	L	L
45 -		45.65 - 46.48 silica-calcite-epidote (chlorite) pyrite (acanthite ?) stockwork at least 2 phases of silica.	1068	45.0	46.0	2.06	6.9
46 -			1069	46.0	47.0	1.03	3.4
47 -		47.39 - 47.41 pyrite veinlet, 55° to core axis	1070	47.0	48.0	L	L
48 -			1071	48.0	49.0	L	L
49 -		49.25 - 50.70 silica-pyrite stockwork; host silicified and bleached up to 2% pyrite, coarse crystalline, euhedral, hematitic stained fsp phenocrysts 55° to c.a.	1072	49.0	50.0	L	3.4
50 -		50.70 - 51.12 fault zone - breccia with silicified fragments	1073	50.0	51.0	0.34	6.9

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.12 - 54.00 minor quartz veining, up to 2% pyrite	1074	51.0	52.0	0.34	L
52 -			1075	52.0	53.0	1.03	61.7
53 -			1076	53.0	54.0	0.34	17.1
54 -		54.00 - 56.60 minor quartz-calcite veining to fine stockwork in siliceous strong propylitic (chlorite) porphyry	1077	54.0	55.0	1.03	65.1
55 -		55.90 - 56.30 fault zone	1078	55.0	56.0	L	L
56 -		56.60 - 73.46 propylitic porphyry, hematitic stained fsp phenocrysts, partly altered to epidote, abundant epidote and chlorite slightly bleached zones with weak matrix silicification vugs filled with calcite	1079	56.0	57.0	L	L
57 -							
58 -							
59 -							
60 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -							
63 -							
64 -							
65 -							
66 -							
67 -							
68 -							
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -							
72 -							
73 -		73.46 END OF HOLE					
74 -							
75 -							
76 -							
77 -							
78 -							
79 -							
80 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 04
CORE SIZE: NQ

DATE STARTED: 28.06 1985
DATE COMPLETED: 29.06 1985
LOGGED BY: Andreas H. Vogt
DATE: 29.06 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L0+25 NW 0+50 SW (Silver Creek Grid)
TOTAL LENGTH: 86.56 m
SURVEY CO-ORDINATES: 6742.65 N, 7958.05 E
ELEVATION AT COLLAR: 1647.80 m
DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 65°
86.56 m	N 044 E	- 65°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 4.57 casing					
1 -							
2 -							
3 -							
4 -		4.57 - 4.77 Boulders of Sustut sandstone/conglomerate 4.77 - 60.45 propylitic altered porphyritic crystal tuff with some lithic fragments hematite stained fsp phenocrysts partly to completely altered to epidote, mafic phenocrysts altered to chlorite, dark green matrix, partly hematite stained, with calcite in vugs fsp phenos zoned with centre altered to epidote and rims hematite stained MnOx coatings along fractures mm calcite veinlets.					
5 -							
6 -		6.00 to 0.45 broken core					
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -							
16 -							
17 -							
18 -							
19 -							
20 -		20.13 - 42.05 propylitic porphyry with strong hematitization, chloritization, carbonatization ± pyrite. mm - calcite veinlets and calcite in vugs.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -		22.30 - 22.35 slightly more siliceous zone as halo around calcite filled fracture					
23 -							
24 -							
25 -							
26 -							
27 -							
28 -							
29 -		29.10 - 29.26 broken core, fault zone limonitic.					
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -							
37 -							
38 -							
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -							
45 -		45.51 1 cm silica-calcite-epidote veinlet, 25° to core axis.					
46 -							
47 -							
48 -							
49 -							
50 -		50.77 - 50.86 silica-calcite-epidote veinlet with siliceous envelope 40° to core axis	1103	50.0	51.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.97 minor fault with fault breccia, pyrite rich, calcite					
52 -							
53 -							
54 -							
55 -							
56 -							
57 -		57.25 broken core, fault zone					
58 -							
59 -		59.36 - 59.40 siliceous zone, 65° to core axis, epidote pyrite	1080	59.0	60.0	L	L
60 -		60.45 - 72.29 silicified propylitic porphyry silica veining, strong chloritization diss. pyrite up to several % minor galena and cpy 60.89 cm silica veinlet, 40° to core axis	1081	60.0	61.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.18 cm silica veinlet, 40° to c.a.	1082	61.0	62.0	L	L
62 -		62.15 - 62.35 broken, core, heavier MnOx	1083	62.0	63.0	L	3.4
63 -			1084	63.0	64.0	L	L
64 -		64.02 - 68.04 dark grey, sulphide rich zone (orientation 65°) with silica-calcite stockwork dense, chert like silica, grey to dark grey in siliceous, strong chloritic porphyry with hematite stained fsp phenocrysts partly brecciated	1085	64.0	65.0	L	L
65 -			1086	65.0	66.0	L	L
66 -			1087	66.0	67.0	L	3.4
67 -		67.36 - 67.83 intensive silica stockwork	1088	67.0	68.0	0.69	3.4
68 -		68.04 - 69.0 siliceous breccia and fault zone	1089	68.0	69.0	L	3.4
69 -		69.00 - 72.29 silica - sulphide veining to stockwork, partly silicification silica micro brecciation	1090	69.0	70.0	L	L
70 -			1091	70.0	71.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.75 2 cm wide dark silica-sulphide veinlet 65°	1092	71.0	72.0	4.46	3.4
72 -		72.29 - 85.56 propyilitic porphyry hematite stained fsp - phenocrysts partly epidote altered some calcite veining and calcite in vugs; ± pyrite, minor silica veining, weak silicification 83.25 - 85.56: slightly bleached and patchy silicification.	1093	72.0	73.0	L	L
73 -			1094	73.0	74.0	L	L
74 -			1095	74.0	75.0	L	L
75 -			1096	75.0	76.0	L	L
76 -		76.44 cm silica vein 55° to core axis	1097	76.0	77.0	L	L
77 -							
78 -			1439	78.0	79.0	L	L
79 -		79.83 mm silica - epidote veinlet	1098	79.0	80.0	3.43	6.9
80 -			1099	80.0	81.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			1100	81.0	82.0	L	L
82 -		82.05 - 82.76 abundant pyrtie, up to 2%	1101	82.0	83.0	L	3.4
		82.25 - 82.35 silica-sulphide breccia					
83 -			1102	83.0	84.0	L	L
84 -							
85 -							
86 -							
		86.56 END OF HOLE					
87 -							
88 -							
89 -							
90 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 05

CORE SIZE: NQ

DATE STARTED: 29.06 1985
DATE COMPLETED: 30.06 1985
LOGGED BY: Andreas H. Vogt
DATE: 30.06 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+50 NW 0+35 SW (Silver Creek Grid)

SURVEY CO-ORDINATES 6767.32 N, 7949.65 E

TOTAL LENGTH 62.79 m

ELEVATION AT COLLAR 1641.63 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
62.79 m	N 044 E	- 43°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 5.18 Casing					
1 -							
2 -							
3 -							
4 -							
5 -		5.18 - 6.20 boulders of Sustut sandstone and conglomerate					
6 -		6.20 - 20.60 propylitic altered porphyritic crystal tuff hematite stained fsp - phenocrysts, hematite, epidote, chlorite, altered mafic phenos biotite, hornblende in aphanitic, dark green matrix calcite veinlets and vugs filled with calcite, limonitic along fractures					
7 -		fsp - phenocrysts 0.4 cm Ø some lithic fragments fine grained diss. pyrite approx. 1% mafic phenocrysts partly altered to limonite weak, patchy matrix silicification					
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -			1695	14.0	15.0	L	3.4
15 -			1696	15.0	16.0	L	3.4
16 -			1697	16.0	17.0	L	3.4
17 -			1698	17.0	18.0	L	L
18 -			1699	18.0	19.0	L	L
19 -		19.00 mm quartz/calcite veining	1104	19.0	20.0	L	3.4
20 -		20.60 - 21.64 contact/transition zone, strong limonitic; argillic alteration	1105	20.0	21.0	L	6.9

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.64 - 26.88 quartz - feldspar porphyry pink, abundant quartz phenocrysts, rounded to hypidiomorphic; occasionally embayed and corroded, fsp phenocrysts clay altered diss. pyrite mostly euhedral approx. 1% FeOx and MnOx along fractures	1106	21.0	22.0	L	10.3
22 -		contact at 21.64, 50° to c.a. at 26.88, 10° to core axis.	1107	22.0	23.0	L	3.4
23 -			1108	23.0	24.0	L	3.4
24 -			1109	24.0	25.0	L	L
25 -			1110	25.0	26.0	L	L
26 -		26.88 - 36.80 propylitic altered porphyry similar to 6.20 - 20.60, some calcite veining	1111	26.0	27.0	L	L
27 -			1112	27.0	28.0	L	L
28 -			1688	28.0	29.0	L	L
29 -		29.84 Silica - calcite - pyrite veinlet 18° to c.a.	1689	29.0	30.0	L	L
30 -		30.51 - 34.54 patchy matrix silicification some calcite veining + pyrite 30.65 Silica veinlet 60° to core axis	1690	30.0	31.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -			1691	31.0	32.0	L	L
32 -		32.47 cm silica-calcite veinlet 70° to c.a.	1692	32.0	33.0	L	3.4
33 -			1693	33.0	34.0	L	L
34 -			1694	34.0	35.0	L	L
35 -			1113	35.0	36.0	L	L
36 -		36.80 - 37.79 silica-calcite-pyrite breccia and fault zone, dark grey, pyrite rich breccia with silica/calcite veining and fragments of dark grey silica	1114	360.00	36.80	L	L
37 -		37.79 propylitic porphyry weakly silicified and bleached some silica and calcite veining, strong epidotization, ± diss. pyrite, MnOx on fractures.	1115	36.80	37.79	L	6.9
38 -			1116	37.79	39.00	L	L
39 -			1117	39.0	40.0	L	L
40 -			1118	40.0	41.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -			1119	41.0	42.0	L	L
42 -			1120	42.0	43.0	L	3.4
43 -		43.40 - 43.70 quartz veinlets in strong epidotization	1121	43.0	44.0	L	3.4
44 -			1122	44.0	45.0	L	L
45 -			1123	45.0	46.0	L	L
46 -		46.95 - 47.05 porous	1124	46.0	47.0	L	L
47 -		decreasing alteration					
48 -		" "					
49 -		" "					
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -							
53 -							
54 -							
55 -							
56 -							
57 -							
58 -							
59 -							
60 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -		62.79 END OF HOLE					
63 -							
64 -							
65 -							
66 -							
67 -							
68 -							
69 -							
70 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 06
CORE SIZE: NQ

DATE STARTED: 30.06 1985
DATE COMPLETED: 30.06 1985
LOGGED BY: Andreas H. Vogt
DATE: 01.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L-0+25 SE 0+56 SW (Silver Creek Grid)
TOTAL LENGTH 64.92 m

SURVEY CO-ORDINATES 6701.01 N, 7985.58 E

ELEVATION AT COLLAR 1654.88 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 50°
64.92 m	N 044 E	- 49°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 4.02 Casing					
1 -							
2 -							
3 -							
		Sustut chert (not in place)					
4 -		4.02 - 44.85 porphyritic (andesitic) crystal tuff propylitization (epidote, chlorite, calcite, pyrite, hematite and weak matrix silicification; (patchy) pink fsp phenocrysts (0.5 cm ∅) partly to completely replaced to epidote (and calcite), mafic phenocrysts altered to chlorite; aphanitic, grey-green matrix ± diss. pyrite, nests of calcite (epidote) Mn-Ox on fractures.					
5 -							
		5.12 - 5.27 grey-green silicification with weak remnant porphyritic texture; irregular, not structure bound.					
6 -							
		fsp - phenos zoned, with centre replaced by epidote; indicating decreasing An - content towards the rims, vuggy, vugs partly filled with calcite partly brecciated (limonitic) occasionally weak argillic ie. clay alteration of fsp phenocrysts.					
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -		13.66 - 13.99 fracture with brecciation ± parallel to core axis					
14 -							
15 -		15.00 - 22.00 patchy, weak matrix silicification with minor brecciation. 15.70 15.90 calcite/quartz/epidote nests, some brecciation					
16 -		16.14 - 16.30 nests of coarse crystalline calcite with some quartz, minor brecciation 16.50 minor fault breccia					
17 -		17.40 - 17.50 fault breccia					
18 -		18.54 calcite/quartz/epidote nests					
19 -		19.70 calcite/quartz nests					
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.38 - 21.62 strong epidotization some brecciation with epidote, calcite and quartz filling, less pyrite					
22 -							
23 -		23.30 - 24.20 minor epidotization/chloritization to fresh crystal tuff with dark grey matrix					
24 -		24.40 - 44.85 irregular silicification isolated patches of stronger silicification and epidotization not related to any structure: matrix silicification with some bleaching and hematitization					
25 -		25.40 calcite/quartz nests mm calcite veining					
26 -							
27 -		27.50 calcite/quartz nests					
28 -		29.78 - 29.84 quartz/calcite/epidote nests					
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.96 mm quartz/calcite veinlet 47° to c.a.					
32 -							
33 -							
34 -							
35 -		35.36 - 35.38 minor brecciation, filled with calcite 35.50 - 36.58 broken core ± MnOx					
36 -							
37 -							
38 -							
39 -							
40 -		40.00 - 41.70 broken core; weak argillic alteration of fsp phenocrysts					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.80 - 42.10 intensive calcite veining, some brecciation					
42 -							
43 -							
44 -		44.85 - 45.10 fault gouge, Limonitic					
45 -		45.10 - 50.21 porphyritic andesite, matrix silicification and strong propylitization, mm - quartz stockwork and brecciation, abundant pyrite, strong chloritization	1125	45.0	46.0	L	L
46 -			1126	46.0	47.0	L	L
47 -		47.39 - 47.55 intensive quartz veining	1127	47.0	48.0	L	L
48 -		48.00 - 48.60 brecciation with some fault gouge (30° to c.a.) 48.74 - 48.82 intensive quartz veining	1128	48.0	49.0	L	3.4
49 -		49.78 - 50.21 brecciation	1129	49.0	50.0	L	L
50 -		50.21 - 64.92 porphyritic andesite, propylitic altered weak matrix - silicification, some quartz veining, calcite veining, and nests ± diss. pyrite as alteration product, weak argillic alteration of fsp phenocrysts	1130	50.0	51.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.45 - 51.59 intensive silica veining (mm veinlets, dark grey silica) with epidote, calcite and greater pyrite	1131	51.0	52.0	L	L
52 -		52.20 1/2 cm quartz/epidote veinlet 30° to c.a.	1132	52.0	53.0	L	L
53 -		53.10 - 53.13 intensive silica veining 53.90 silica veining	1133	53.0	54.0	L	L
54 -		54.30 mm silica veinlet 15° to c.a. 54.65 - 54.80 intensive silica veining	1134	54.0	55.0	L	L
55 -			1135	55.0	56.0	L	3.4
56 -		56.00 - 56.13 intensive silica veining with epidote, MnOx	1136	56.0	57.0	L	3.4
57 -		57.70 - 57.95 silica-epidote micro-breccia with sulphides (pyrite, acanthite (?)) minor barite	1137	57.0	58.0	L	3.4
58 -			1138	58.0	59.0	L	3.4
59 -			1139	58.0	59.0	0.34	3.4
60 -		60.50 - 60.60 intensive silica veining	1140	60.0	61.0	L	6.9

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.40 - 61.50 intensive quartz veining	1141	61.0	62.0	L	3.4
62 -		62.59 1 cm silica - epidote pyrite zone micro-brecciation and veining	1142	62.0	63.0	L	6.9
63 -			2007	63.0	64.0	L	3.4
64 -			2008	64.0	65.0	L	3.4
		64.92 END OF HOLE					
65 -							
66 -							
67 -							
68 -							
69 -							
70 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 07

CORE SIZE: NQ

DATE STARTED: 30.06 1985
DATE COMPLETED: 01.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 02.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L-0+50 SE 0+26.5 SW (Silver Creek Grid)

SURVEY CO-ORDINATES 6705.15 N, 8025.53 E

ELEVATION AT COLLAR 1654.43 m

TOTAL LENGTH 38.1 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
38.1 m	N 044 E	- 45°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.66 Casing					
1 -							
2 -							
3 -		3.66 - 3.76 purple porphyry; pink fsp phenocrysts in dense, dark purple matrix 3.76 - 11.09 porphyritic (andesitic) crystal tuff					
4 -		weak to medium propylitic (epidote, chlorite, calcite) pink fsp phenocrysts (up to 1 cm Ø) partly to totally altered to epidote, dark green matrix, aphanitic MnOx coatings along fractures					
5 -							
6 -		6:00 3cm zone with silica/epidote sulphides, manganese oxide weak matrix silicification associated with weak bleaching and hematitic staining of matrix, vuggy, vugs open or filled with epidote, calcite.					
7 -							
8 -							
9 -							
10 -		10.30 increasing matrix silicification diss. pyrite, limonitic	1143	10.0	11.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		11.09 - 11.89 silica - sulphide breccia; silica fragments in a soft matrix (fault gouge) abundant pyrite, some acanthite (at 11.15) 11.89 - 12.86 silica-sulphide-zone; strong silicification with remnant porphyritic texture; minor brecciation, abundant sulphides, epidote, calcite veining	1144	11.0	12.0	2.74	185.1
12 -		12.86 - 16.42 porphyry, strong matrix silicification intensive quartz (and calcite) veining to brecciation, abundant, sulphides, pyrite, some acanthite (14.60) cpy, some barite 50° to core axis.	1145	12.0	13.0	2.40	51.4
13 -			1146	13.0	14.0	0.34	6.9
14 -			1147	14.0	15.0	1.71	10.3
15 -		15.04 - 15.20 massive coarse crystalline calcite nests 15.75 - 16.25 strong epidotization	1148	15.0	16.0	1.03	17.1
16 -		16.42 - 18.49 porphyry, weak matrix silicification medium to strong epidotization, diss. pyrite, some mm - quartz veining, calcite nests	1149	16.0	17.0	0.69	17.1
17 -			1150	17.0	18.0	0.34	13.7
18 -		18.49 - 19.57 silica-sulphide zone, strong silicification to silica breccia with abundant sulphides, strong epidotization, calcite nests	1151	18.0	19.0	4.11	41.1
19 -		19.57 - 27.90 porphyry, matrix silicification	1152	19.0	20.0	L	10.3
20 -		strong, epidotization, some quartz, calcite, epidote veining and nests; diss. pyrite minor argillic alteration. 20.19 - 21.04 cm silica-calcite-epidote vein 11° to core axis	1153	20.0	21.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			1154	21.0	22.0	L	10.3
22 -		22.35 - 22.75 quartz-calcite veining to stockwork, very strong epidotization	1155	22.0	23.0	L	10.3
23 -		23.25 - 24.15 intensive quartz veining, increased sulphides	1156	23.0	24.0	L	3.4
24 -		24.24 - 24.38 massive calcite veining, grey silica veining, increased sulphides	1157	24.0	25.0	L	10.3
25 -		25.26 - 26.45 strong matrix silicification much increased pyrite strong epidotization chloritization, massive calcite nests	1158	25.0	26.0	L	13.7
26 -			1159	26.0	27.0	L	3.4
27 -		27.90 - 29.10 silica-calcite-sulphide breccia dark grey silica fragments in a calcite matrix, abundant pyrite, minor barite	1160	27.0	27.9	L	3.4
28 -		28.88 - 29.10 silica fragments in fault gouge	1161	27.90	29.10	0.69	6.9
29 -		29.10 - 35.10 porphyritic andesite, weak matrix silicification medium to strong propylitization minor quartz and calcite veining and nests, diss. pyrite.	1162	29.10	30.00	L	L
30 -		30.50 - 30.70 broken core, limonitic, fault gouge	1163	30.0	31.0	L	10.3

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.77 - 32.07 patches of dark silica, calcite and epidote	1164	31.0	32.0	L	3.4
32 -			1165	32.0	33.0	L	3.4
33 -			1166	33.0	34.0	L	L
34 -		34.70 - 34.90 strong silicification, quartz veining 50° to core axis, increased pyrite	1167	34.0	35.0	L	3.4
35 -		35.10 - 38.07 porphyritic (andesitic) tuff, medium propylitic, diss. pyrite, weak, patchy matrix silicification, chloritic 35.47 - 35.54 dark grey fault gouge rich in sulphides.	1168	35.0	36.0	L	3.4
36 -							
37 -							
38 -		38.1 END OF HOLE					
39 -							
40 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 08
CORE SIZE: NQ

DATE STARTED: 01.07 1985
DATE COMPLETED: 01.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 02.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L-0+50 SE 0+26.5 SW (Silver Creek Grid)
TOTAL LENGTH 44.81 m
SURVEY CO-ORDINATES 6704.44 N 8024.96 E
ELEVATION AT COLLAR 1654.27 m
DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 75°
44.81 m	N 044 E	- 77°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0- 3.16 casing					
1 -							
2 -							
3 -		3.16 - 18.34 porphyritic (andesitic) tuff, medium propylitic altered (epidote, chlorite, calcite, pyrite hematite) fsp phenos (up to 1.2 cm Ø) pink, partly to completely altered to epidote dark green, aphanitic matrix nests of calcite, clusters and mm veinlets of epidote few mm quartz veinlets with enveloping matrix - silicification, some lithic fragments					
4 -		MnOx coatings on fractures weak matrix silicification with bleaching and hematitic staining					
5 -							
6 -		6.25 minor fault zone with brecciation					
7 -							
8 -		8.97 minor fault zone	2009	8.50	9.00	L	L
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -		12.70 - 13.20 strong hematitic staining of matrix and strong epidotization					
13 -							
14 -		14.80 - 15.20 very strong epidotization, quartz and calcite nests					
15 -			2010	15.0	16.0	L	L
16 -			1440	16.0	17.0	L	L
17 -			2011	17.0	18.0	L	L
18 -		18.34 - 20.75 sulphide - silica-breccia zone 18.34 - 19.50 dark green, brecciated porphyry with abundant pyrite, two phases of silica	1169	18.0	19.0	2.40	3.4
19 -		19.50 - 19.86 dark grey, sulphide rich gouge material 19.86 - 20.11 brecciated porphyry with abundant sulphides	1170	19.0	20.0	0.69	30.8
20 -		20.11 - 20.75 silica breccia, dark grey silica with calcite and abundant sulphides 20.75 - 22.24 porphyry, intensive quartz/calcite veining and nests, strong propylitization, matrix silicification increased diss. pyrite; dark green, very soft alteration mineral (montmorillonite) between 21.00 and 22.00 quartz/calcite vein 11° to core axis	1171	20.0	21.0	0.69	24.0

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			1172	21.0	22.0	L	3.4
22 -		22.24 - 24.03 porphyry, matrix silicified, some quartz (epidote, calcite) veining, medium to strong epidotization, diss. pyrite.	1173	22.0	23.0	L	3.4
23 -			1174	23.00	24.03	0.34	3.4
24 -		24.03 - 25.10 intensive quartz (calcite, epidote) veining to micro brecciation, in strong epidotization; matrix silicification, increased sulphides (pyrite, acanthite)	1175	24.03	25.10	1.03	61.7
25 -		25.10 - 26.00 porphyry, weak matrix silicification, strong epidotization; some quartz veining parallel to core axis.	1176	25.10	26.00	0.34	17.1
26 -		26.00 - 28.43 prophyry intrusive mm quartz veining much increased sulphides, strong matrix silicification and epidotization; nests of calcite, some barite	1177	26.0	27.0	1.03	65.1
27 -			1178	27.0	28.0	L	10.3
28 -		28.43 - 31.14 silica-sulphide breccia silicified porphyry fragments with remnant porphyritic texture and dark grey silica fragments in a silica-epidote-calcite-sulphide matrix (pyrite and some acanthite/galena; sulphides coarse gained up to 10% in places, barite quartz and barite crystals as open space fillings	1179	28.00	28.43	0.34	27.4
			1180	28.43	29.00	0.86	72.0
			1180Van	28.43	29.00	1.39	80.0
29 -			1181	29.0	30.0	9.60	342.9
			1181RR	29.0	30.0	4.37	356.6
			1181Van	29.0	30.0	7.92	378.0
			2012RS	29.0	30.0	6.00	267.5
30 -			1182	30.0	31.0	2.74	116.6
			1182RR	30.0	31.0	2.06	120.0
			1182Van	29.0	30.0	2.83	132.0

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.14 - 44.81 medium to weak propylitic andesite with some quartz veining/calcite, weak matrix silicification	1183	31.0	32.0	L	3.4
32 -			1184	32.0	33.0	L	L
33 -			2013	33.0	34.0	L	3.4
34 -			2014	34.0	35.0	L	L
35 -			2015	35.0	36.0	L	L
36 -			2016	36.0	37.0	L	3.4
37 -		37.18 - 37.36 mm quartz veining 50° to c.a. 37.18 - 38.40 strong matrix silicification epidotization with quartz veining, pyrite	2017	37.0	37.90	L	L
38 -			1185	37.90	38.40	L	L
39 -			2018	38.40	39.00	L	L
			2019	39.00	40.00	L	L
40 -			2020	40.0	41.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.08 - 41.38 strong epidotization with quartz, slightly bleached	2021	41.0	42.0	L	L
42 -			2022	42.0	43.0	L	L
43 -			2023	43.0	44.0	L	L
44 -			2024	44.00	44.81	L	L
		44.81 END OF HOLE					
45 -							
46 -							
47 -							
48 -							
49 -							
50 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 09

CORE SIZE: NQ

DATE STARTED: 01.07 1985
DATE COMPLETED: 02.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 02.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+75 SE 0+36 SW (Silver Creek Grid)

TOTAL LENGTH 44.5 m

SURVEY CO-ORDINATES 6681.03 N 8035.44 E

ELEVATION AT COLLAR 1657.46 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
35.36 m	N 044 E	- 47°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 3.20 Sustut - sandstone (not in place) 3.20 - 23.16 propylitic altered porphyritic crystal tuff weak to medium propylitization; irregular patchy matrix silicification (not structure-bound) pink fsp phenocrysts, mafic phenocrysts altered to chlorite, clusters of chlorite and epidote dark green aphanitic matrix, nests of calcite					
4 -		some fsp - phenos altered to a soft, green mineral (montmorillonite ?) MnOx on fractures					
5 -		vuggy, with vugs partly filled by calcite or quartz.					
6 -							
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -		15.18 1/2 cm quartz vein 55° to core axis. 15.88 - 15.90 small, sulphide rich breccia/fault starting at 16.33 fsp - phenocrysts replaced by epidote					
16 -							
17 -		at 17.70 quartz/calcite/epidote nests					
18 -							
19 -		19.88 - 20.00 quartz nests with epidote, increased sulphides.					
20 -		20.70 - 20.95 strong epidotization with quartz nests					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -			1186	22.00	23.16	L	L
23 -		23.16 - 23.67 silica-sulphide breccia; silicified fragments in dark grey, fault gouge, matrix rich in sulphides 23.67 - 24.33 sulphide rich strong matrix silicification with quartz veining, remnant porphyritic texture	1187	23.16	24.0	0.34	27.4
24 -		24.33 - 24.77 (loose) silica-sulphide breccia 24.77 - 25.23 silica-sulphide breccia with siliceous matrix	1188	24.0	25.0	L	17.1
25 -		25.23 - 26.30 intensive quartz stockwork and very strong matrix silicification, sulphide rich	1189	25.0	26.0	L	6.9
26 -		26.30 - 36.15 porphyry matrix silicified with some quartz veining, increased sulphides (pyrite) approx. 1% anhedral to euhedral.	1190	26.0	27.0	L	3.4
27 -			1191	27.0	28.0	L	3.4
28 -			1192	28.0	29.0	L	L
29 -			1193	29.0	30.0	L	L
30 -		30.69 2 cm silica (epidote) structure 35° to c.a.	1194	30.0	31.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.43 cm silica-epidote structure 55° to c.a.	1195	31.0	32.0	L	L
32 -			1196	32.0	33.0	L	L
33 -			1197	32.0	33.0	L	L
34 -			1198	34.0	35.0	L	3.4
35 -		35.30 - 35.50 intensive quartz veining, sulphide rich	1199	35.0	36.0	L	L
36 -		36.15 - 36.62 very stong matrix silicification, quartz stockwork sulphides 36.62 - 37.10 silica-sulphide breccia, gouge like matrix rich in sulphides	1200	36.0	37.0	L	3.4
37 -		37.10 - 39.87 silica-sulphide-zone 55° to c.a. 37.10 - 39.10 very strong matrix silicification with quartz veining to brecciation; abundant sulphides	1201	37.0	38.0	L	6.9
38 -			1202	38.0	39.0	L	6.9
39 -		39.10 - 39.87 silica breccia, abundant pyrite in part gouge like matrix, 45° to c.a.	1203	39.0	40.0	L	6.9
40 -		39.87 weak propylitic and weak matrix silicified porphyry	1204	40.0	41.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -		44.30 - 44.50 very strong matrix silicification and silica sulphide breccia	1441	44.0	44.5	L	L
		44.5 m END OF HOLE					
45 -							
46 -							
47 -							
48 -							
49 -							
50 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 10
CORE SIZE: NQ

DATE STARTED: 02.07 1985
DATE COMPLETED: 02.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 03.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+75 SE 0+36 SW (Silver Creek Grid)
TOTAL LENGTH 50.60 m
SURVEY CO-ORDINATES 6680.24 N 8034.66 E
ELEVATION AT COLLAR 1657.49 m
DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 70°
50.60 m	N 044 E	- 68°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 29.77 porphyritic andesite weak to medium propylitization, pink fsp phenocrysts altered to epidote or light green clay mineral, mafic phenocrysts altered to chlorite, irregular, patchy matrix silicification with diss. pyrite. mm calcite veinlets, calcite nests with					
4 -		epidote, some lithic fragments, dark green to dark purple aphanitic matrix MnOx on fracture planes 3.35 - 3.40 broken core/fault breccia					
5 -							
6 -							
7 -							
8 -							
9 -							
10 -		10.67 1/2 cm quartz-calcite vien 55° to c.a.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -		15.63 minor silica veining					
16 -							
17 -		17.72 - 17.75 silica-breccia with epidote, hematite, pyrite					
18 -		18.75 - 18.85 patches of strong matrix silicification, not related to structure.					
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.70 - 22.00 quartz veining to micro breccia with calcite nests, epidote pyrite					
22 -							
23 -		23.28 - 23.42 mm quartz veining with epidote pyrite					
24 -		24.30 - 27.33 irregular, patchy strong silicification, dark purple to dark green with increased diss. pyrite, not structure related.					
25 -							
26 -							
27 -							
28 -							
29 -		29.77 - 30.34 porphyry matrix silicification, fsp phenocrysts altered to light green clay mineral abundant diss. pyrite	1205	29.0	30.0	L	3.4
30 -		30.34 - 34.70 intrusive quartz veining to brecciation in silicified, epidotized, sulphide rich porphyry, partly brecciated with gouge like matrix, weak argillic alteration, limonitic	1206 1206Van	30.0 30.0	31.0 31.0	3.77 1.94	13.7 13.8

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -			1207	31.0	32.0	1.71	10.3
			1207Van	31.0	32.0	1.09	10.2
32 -			1208	32.0	33.0	L	L
33 -			1209	33.0	34.0	L	3.4
34 -		34.70 - 50.60 matrix silicified porphyry with wide spaced quartz veinlets, fsp phenocrysts partly to completely replaced by epidote increased diss. pyrite, nests of calcite strong propylitic alteration; chlorite, epidote	1210	34.00	34.70	L	3.4
35 -			1211	34.70	36.00	L	L
36 -			1212	36.0	37.0	L	6.9
37 -		37.42 - 37.74 strong epidotization	1213	37.0	38.0	L	6.9
38 -			1214	38.0	39.0	L	3.4
39 -			1215	39.0	40.0	L	L
40 -			2027	40.0	41.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -			2028	41.0	42.0	L	3.4
42 -			2029	42.0	43.0	L	6.9
43 -			2030	43.0	44.0	L	3.4
44 -			2031	44.0	45.0	L	L
45 -		45.59 - 45.63 minor fault zone/breccia, 50° to core axis	2032	45.0	46.0	L	L
46 -		46.19 - 46.50 quartz nests with intensive epidotization	1216	46.0	46.5	L	L
47 -							
48 -							
49 -							
50 -		50.60 END OF HOLE					

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 11

CORE SIZE: NQ

DATE STARTED: 02.07 1985
DATE COMPLETED: 02.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 03.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L1+00 SE 0+35 SW (Silver Creek Grid)

TOTAL LENGTH 47.24 m

SURVEY CO-ORDINATES 6663.71 N 8052.95 E

ELEVATION AT COLLAR 1662.60 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
47.24 m	N 044 E	- 45°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 16.30 purple crystal tuff; fresh to weakly propylitic altered tuff with pink fsp phenocrysts (partly altered to clay) in aphanitic, grey to purple matrix; epidote, chlorite, diss. pyrite small veinlets and nests of calcite of 4.00 epidotizied fragments, strong hematitic staining of matrix weak carbonatization					
4 -		4.57 - 4.70 fault zone					
5 -							
6 -							
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -		15.30 - 15.32 small breccia zone					
16 -		16.22 mm calcite veinlets, 55° to c.a. 16.30 - 18.80 increasing propylitization pink fsp phenos partly completely replaced by epidote, matrix dark green					
17 -							
18 -		18.80 - 22.27 increasing matrix silicification, abundant diss. pyrite, light green matrix silicified porphyry up to 2% diss. pyrite, minor argillic altertaion of fsp phenos	1217	18.0	19.0	L	L
19 -			1218	19.0	20.0	L	L
20 -			1219	20.0	21.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.30 - 21.40 sulphide-silica breccia with gouge like matrix 21.83 - 21.95 sulphide-silica breccia with gouge like matrix	1220	21.0	22.0	L	L
22 -		22.27 - 22.97 dark grey, sulphide rich fault gouge with silicified fragments 22.97 - 27.20 intensive silicification, intensive silica-veining, brecciation abundant sulphides (pyrite) minor argillic alteration	1221	22.0	23.0	L	3.4
23 -			1222	23.0	24.0	0.69	34.3
24 -			1223	24.0	25.0	L	10.3
25 -			1224	25.0	26.0	0.34	3.4
26 -		26.35 - 26.37 small sulphide-silica breccia 26.83 - 27.20 silica-sulphide breccia, fault gouge matrix	1225	26.0	27.20	0.34	10.3
27 -		27.20 - 38.65 matrix-silicification with abundant diss. pyrite, some quartz veining	1226	27.20	28.00	L	3.4
28 -			1227	28.0	29.0	L	3.4
29 -		29.83 - 29.97 quartz veining to breccia, with calcite	1228	29.0	30.0	L	3.4
30 -		30.15 - 30.30 intensive quartz veining	1229	30.0	31.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.80 - 31.95 brecciation	1230	31.0	32.0	L	3.4
32 -			1231	32.0	33.0	L	3.4
33 -		33.87 - 34.10 intensive quartz veining	1232	33.0	34.0	L	L
34 -			1233	34.0	35.0	L	6.9
35 -			1234	35.0	36.0	L	L
36 -			1235	36.0	37.0	L	3.4
37 -							
38 -		38.65 - 47.24 decreasing matrix silicification medium to strong propylitic; epidotization of fsp ± diss. pyrite, weak, patchy matrix silicification					
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -							
45 -							
46 -							
47 -		47.24 END OF HOLE					
48 -							
49 -							
50 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 12
CORE SIZE: NQ

DATE STARTED: 02.07 1985
DATE COMPLETED: 03.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 03.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L1+00 SE 0+35 SW (Silver Creek Grid)
TOTAL LENGTH 68.88 m

SURVEY CO-ORDINATES 6663.06 N 8052.06 E

ELEVATION AT COLLAR 1662.62 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 75°
68.88 m	N 044 E	- 70°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 16.23 'purple tuff', fresh to weakly propylitic altered, pink fsp phenocrysts mostly fresh, some epidotizied fragments mm calcite veinlets and nests					
4 -							
5 -							
6 -		6.59 - 6.73 epidotization					
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 16.23 'purple tuff', fresh to weakly propylitic altered, pink fsp phenocrysts mostly fresh, some epidotizied fragments mm calcite veinlets and nests					
4 -							
5 -							
6 -		6.59 - 6.73 epidotization					
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		11.86 - 12.26 stronger epidotization and calcitization					
12 -							
13 -							
14 -							
15 -							
16 -		16.23 - 27.75 increasing propylitization (epidotization, calcification, chloritization) weak and patchy matrix silicification, pink fsp phenocryst partly altered to epidote 16.23 - 33.00 transition zone between hematitization and propylitization					
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -							
24 -							
25 -							
26 -							
27 -		27.75 - 33.00 <u>strong hematitic staining of matrix</u>, partly fractured and brecciated, with weak clay alteration of fsp phenocrysts					
28 -							
29 -		29.38 - 29.56 brecciated 29.74 - 30.50 broken core					
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -			1236	32.0	33.0	L	6.9
33 -		33.00 - 38.00 irregular, patchy matrix silicification stronger propylitization	1237	33.0	34.0	L	L
34 -			1238	34.0	35.0	L	L
35 -			1239	35.0	36.0	L	L
36 -		36.60 - 36.75 mm calcite/epidote veining	1240	36.0	37.0	L	L
37 -			1241	37.0	38.0	L	L
38 -		towards the contact stronger epidotization and increased diss. pyrite 38.00 - 41.15 silica-sulphide zone with fault gouge material	1242	38.0	39.0	L	3.4
39 -		39.20 - 41.15 massive silicification with abundant sulphides, in part brecciated	1243	39.0	40.0	L	L
40 -			1244	40.0	41.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.15 - 62.53 matrix-silicified propylitic porphyry much increased diss. pyrite, with quartz veining	1245	41.0	42.0	L	L
42 -		42.05 - 42.85 strong silica veining	1246	42.0	43.0	L	3.4
43 -			1247	43.0	44.0	L	L
44 -			1248	44.0	45.0	L	L
45 -			1249	45.0	46.0	L	3.4
46 -			1250	46.0	47.0	L	L
47 -			1251	47.0	48.0	L	L
48 -		48.00 - 48.40 very strong silicification with quartz veining, epidote, calcite	1252	48.0	49.0	L	L
49 -		49.20 - 49.30 mm quartz-veining, 45° to c.a.	1253	49.0	50.0	L	L
50 -			1254	50.0	51.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.04 - 51.07 3 cm calcite vein	1255	51.0	52.0	L	L
52 -			1256	52.0	53.0	L	L
53 -		53.30 - 53.52 very strong silification abundant sulphides	1257	53.0	54.0	L	3.4
54 -			1258	54.0	55.0	L	3.4
55 -			1259	55.0	56.0	L	6.9
56 -			1260	56.0	57.0	L	3.4
57 -			1261	57.0	58.0	L	L
58 -							
59 -							
60 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -		62.53 - 68.88 strong propylitic (epidotization) porphyry					
63 -							
64 -							
65 -							
66 -							
67 -							
68 -							
		68.88 END OF HOLE					
69 -							
70 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 13
CORE SIZE: NQ

DATE STARTED: 03.07 1985
DATE COMPLETED: 03.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 04.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L1+25 SE 0+42 SW (Silver Creek Grid)
TOTAL LENGTH 50.60 m
SURVEY CO-ORDINATES 6640.87 N 8064.08 E
ELEVATION AT COLLAR 1664.38 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
50.60 m	N 044 E	- 43°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 4.57 casing					
1 -							
2 -							
3 -							
4 -		4.57 - 5.18 Sustut sandstone and conglomerate, not in place					
5 -		5.18 - 29.41 fresh to weakly propylitic porphyritic tuff, pink feldspar phenocrysts in a aphanitic, purple to grey green matrix; mm calcite veinlets and calcite in vugs; some lithic fragments matrix rich in hematite, partly intensive hematitic staining of matrix 5.90 - 5.95 fault breccia, Lithic up to several cm Ø					
6 -							
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		11.30 - 11.35 micro breccia with calcite-matrix minor silica					
12 -		12.24 - 5 mm calcite vein 30° to c.a.					
13 -							
14 -		14.53 - 14.80 broken core, brecciation, fault zone					
15 -							
16 -							
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -							
24 -		24.59 - 24.65 minor silica-calcite veining and nests 24.90 - 24.95 cm calcite vein, 25° to c.a.					
25 -							
26 -							
27 -							
28 -		towards contact slightly increasing matrix silicification, some diss. pyrite	1262	29.00	29.60	L	3.4
29 -		29.42 - 30.40 silica sulphide zone, 55° to c.a. 29.41 - 29.69 silica sulphide breccia with fault gouge 29.69 - 30.40 massive silicification with abundant sulphide (pyrite) some calcite	1263	29.60	30.40	L	10.3
30 -		30.40 - 31.68 very strong matrix silicification with intensive quartz veining to stockwork, abundant sulphides(pyrite approx. 2%), pink fsp phenos, epidotization	1264	30.40	31.00	0.69	13.7

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.68 - 35.44 matrix silicified porphyry, with wide spaced silica (calcite, epidote) veining epidotization, increased diss. pyrite, argillic alteration	1265	31.0	32.0	L	10.3
32 -		32.85 2 cm silica vein, 55° to c.a.	1266	32.0	33.0	L	L
33 -		33.15 - 33.35 silica-calcite veining to micro breccia increased pyrite 33.64 - 33.68 zone of strong silicification 33.88 - 33.92 breccia with porphyry fragments and silica, calcite, epidote matrix	1267	33.0	34.0	L	3.4
34 -		34.90 - 34.92 2 cm silica vein with epidote, 55° to c.a.	1268	34.0	35.0	L	L
35 -		35.26 - 35.32 silica breccia, 50° to c.a. 35.36 - 35.44 strong silicification with much increased pyrite 35.44 - 48.80 strong propylitic porphyry with occasional quartz calcite veining, weak matrix silicification	1269	35.0	36.0	L	L
36 -		36.76 - 36.81 quartz-calcite-epidote breccia, 52° to c.a. up to 1% pyrite; strong epidotization/chloritization, abundant epidote on fractures; minor argillic alteration in places	1270	36.0	37.0	0.34	3.4
37 -			1271	37.0	38.0	L	3.4
38 -			1272	38.0	39.0	L	L
39 -		39.89 - 39.91 silica breccia, 57° to c.a.	1273	39.0	40.0	L	3.4
40 -		40.10 - 40.30 intensive quartz veining	1274	40.0	41.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.70 - 41.80 quartz veining to brecciation	1275	41.0	42.0	L	L
42 -		42.10 - 42.20 breccia with silica, epidote, increased pyrite 42.85 - 42.90 quartz veining, 50° to c.a. with open space quartz crystal growth	1276	42.0	43.0	L	3.4
43 -		43.10 - 43.11 quartz vein, 45° to c.a.	1277	43.0	44.0	L	3.4
44 -		44.30 - 44.32 quartz/epidote vein, 55° to c.a.	1278	44.0	45.0	L	L
45 -			1279	45.0	46.0	L	L
46 -			1280	46.0	47.0	L	L
47 -		47.49 - 47.58 quartz/epidote veining					
48 -		48.75 - 48.80 quartz/calcite/epidote veining 48.80 - 50.60 propylitic porphyry weak, patchy matrix silicification hematite stained fsp phenocrysts, partly to completely epidote altered, strong epidotization (and epidote along fractures) and chloritization					
49 -							
50 -		50.60 END OF HOLE					

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 14
CORE SIZE: NQ

DATE STARTED: 03.07 1985
DATE COMPLETED: 03.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 04.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L1+25 SE 0+42 SW (Silver Creek Grid)
TOTAL LENGTH 72.24 m
SURVEY CO-ORDINATES 6640.03 N 8063.19 E
ELEVATION AT COLLAR 1664.32 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 75°
72.24 m	N 044 E	- 75°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.66 casing					
1 -							
2 -							
3 -		3.66 - 36.50 'purple tuff', fresh to weak propylitic porphyritic 'andesite', pink fsp phenocrysts up to 1 cm Ø, in a purple, greenish grey to green ground mass, some lithic fragments, calcite nests ± diss pyrite.					
4 -							
5 -		5.50 - 5.59 cm fault breccia, mafic minerals altered to hematite partly strong hematite staining of matrix					
6 -		6.00 minor fault zone 6.70 minor fault zone					
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -		14.60 - 14.90 section of strong epidotization					
15 -							
16 -							
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -		23.93 1/2 cm calcite veinlet, 40° to c.a.					
24 -							
25 -							
26 -							
27 -							
28 -		28.00 - 29.00 'clusters' of epidotization					
29 -		29.34 small fault zone with gouge					
30 -		30.45 - 34.75 slightly stronger epidotization					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -		34.30 - 34.75 slightly stronger epidotization					
35 -							
36 -		36.60 - 42.10 increasing propylitization - epidotization, fsp phenocryst partly replaced by epidote, transition zone between hematite alteration and propylitization					
37 -							
38 -		38.84 3 cm quartz-calcite-epidote breccia					
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -		42.10 - 46.55 increased propylitic alteration (strong epidotization/chloritization) with weak, patchy matrix silicification					
43 -							
44 -			1281	44.0	45.0	L	L
45 -			1282	45.0	46.0	L	L
46 -		46.55 - 50.85 silica-zone, 30° to c.a. grey to dark grey silica, as silica breccia with a silica matrix or fault gouge matrix, abundant pyrite, increased epidote, calcite, chlorite, argillic alteration	1283	46.0	47.0	L	6.9
47 -			1284	47.0	48.0	0.34	10.3
48 -			1285	48.0	49.0	0.69	20.6
49 -			1286	49.0	50.0	0.34	10.3
50 -		50.85 - 60.04 strong matrix silicification with intensive quartz/silica veining to stockwork strong propylitic (epidote/chlorite) weak argillic altered porphyry; diss. pyrite less than 1%	1287	50.0	51.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.66 - 51.88 stockwork of dense, grey chalcedony - like silica	1288	51.0	52.0	L	L
52 -		52.30 - 52.81 intensive silica veining, grey to greenish grey, chalcedony - like silica, at least two phases of silica veining ± parallel to core axis	1289	52.0	53.0	L	L
53 -			1290	53.0	54.0	L	L
54 -			1291	54.0	55.0	L	L
55 -		55.08 - 55.84 intensive quartz veining to stockwork	1292	55.0	56.0	L	L
56 -		56.12 - 56.57 quartz veining/stockwork	1293	56.0	57.0	L	L
57 -		57.26 - 32.00 very strong silicification with increased sulphides (pyrite) 57.48 - 57.86 silica zone, brecciated with calcite matrix and fault gouge	1294	57.0	58.0	L	6.9
58 -			1295	58.0	59.0	L	6.9
59 -			1296	59.0	60.0	L	10.3
60 -		60.04 - 62.92 zone of very strong silicification and brecciation (fault gouge) abundant sulphides (pyrite) at 30° to c.a.	1297	60.0	61.0	L	6.9

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1298	61.0	62.0	0.34	17.1
62 -		62.92 - 65.47 matrix silicified strong propylitic porphyry with frequent quartz veining	1299	62.0	63.0	L	6.9
63 -			1300	63.0	64.0	L	L
64 -			1301	64.0	65.0	L	L
65 -		65.47 - 72.23 strong propylitic porphyry, few mm silica veinlets with weak, patchy matrix silicification	1302	65.0	66.0	L	L
66 -							
67 -							
68 -							
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -							
72 -							
		72.23 M END OF HOLE					
73 -							
74 -							
75 -							
76 -							
77 -							
78 -							
79 -							
80 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 15
CORE SIZE: NQ

DATE STARTED: 03.07 1985
DATE COMPLETED: 04.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 04.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L1+50 SE 0+40 SW (Silver Creek Grid)
SURVEY CO-ORDINATES 6624.45 N 8084.07 E
ELEVATION AT COLLAR 1669.49 m
TOTAL LENGTH 68.28 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
68.28 m	N 044 E	- 47°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 4.57 casing					
1 -							
2 -							
3 -							
4 -		4.57 - 4.70 purple tuff, weak propylitic porphyritic andesite, pink fsp phenos in grey to purple matrix. 4.70 - 6.78 medium propylitic porphyritic andesite partly epidote altered fsp phenocrysts and chlorite altered mafic phenocrysts in an aphanitic green matrix, nests of calcite					
5 -							
6 -		6.78 - 23.97 strong propylitic porphyritic andesite; strong epidotization/chloritization of phenocrysts and matrix, matrix rich in hematite, some lithic fragments, nests with calcite weak matrix silicification as the 23.97 contact is approached					
7 -							
8 -		8.95 - 9.29 broken core, limonitic and MnOx staining					
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -		14.16 - 14.30 broken core					
15 -		15.57 - 15.78 very strong epidotization of the matrix 15.78 1/2 cm of dark, dense silica layer with calcite at 70° to c.a.					
16 -							
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.60 small 1/2 cm quartz structure at 42° to c.a., enveloping zone rich in sulphide for about 10 cm					
22 -		22.43 1/2 cm quartz structure 50° to c.a., enveloping zone rich in pyrite for about 2 cm	1442	22.0	23.0	L	3.4
23 -		23.20 and 23.60 small quartz structures at 57° to c.a., adjacent pyritization 23.97 - 26.66 grey "fault gouge" and breccia zone, including silicified fragments and sections of compact, strong silicification with some calcite nests, abundant diss. pyrite at 55° to c.a.	1303	23.0	24.0	0.34	10.3
24 -			1304	24.0	25.0	0.34	13.7
25 -			1305	25.0	26.0	L	6.9
26 -		26.66 - 27.90 porphyry with matrix silicification, increased diss. pyrite calcite veinlets pink fsp - phenocrysts partly replaced by epidote	1306	26.0	27.0	L	6.9
27 -		27.90 - 68.28 strong propylitic porphyry, very few small (mm) - quartz veinlets ± diss. pyrite approx. 50° to c.a., in part weak matrix silicification intensity of epidotization slightly fluctuating, few lithic fragments	1307	27.0	28.0	L	L
28 -			1308	28.0	29.0	L	L
29 -			1309	29.0	30.0	L	L
30 -			1310	30.0	31.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -			1311	31.0	32.0	L	6.9
32 -		32.10 - 32.71 intensive quartz veining to stockwork (between 32.25 - 32.40) approx. 55° to c.a.	1312	32.0	33.0	L	L
33 -							
34 -							
35 -							
36 -							
37 -							
38 -							
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -							
45 -							
46 -							
47 -							
48 -							
49 -							
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -							
53 -							
54 -							
55 -							
56 -							
57 -							
58 -							
59 -							
60 -		60.80 cm quartz/epidote veinlet					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -							
63 -							
64 -							
65 -							
66 -							
67 -		67.48 cm - calcite veinlet at 30° to c.a., with some micro brecciation, epidote quartz					
68 -		68.28 END OF HOLE					
69 -							
70 -		Note: Hole was continued to test a second resistivity high east of the main zone. Sulphide-silica zone in the footwall of the upper breccia/fault zone developed very weak					

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 16
CORE SIZE: NQ

DATE STARTED: 04.07 1985
DATE COMPLETED: 04.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 05.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L1+75 SE 0+40 SW (Silver Creek Grid)
TOTAL LENGTH 42.37 m
SURVEY CO-ORDINATES 6605.58 N 8100.79 E
ELEVATION AT COLLAR 1671.37 m
DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
42.37 m	N 044 E	- 47°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.66 casing					
1 -							
2 -							
3 -		3.66 - 10.33 weak propylitic, grey to purple crystal tuff with some lithic fragments pink fsp phenocrysts up to 0.8 cm Ø mafic phenocrysts altered to hematite, abundant calcite in small veinlets, vugs and as alteration product of fsp.					
4 -							
5 -							
6 -							
7 -							
8 -		transition zone between weak propylitic purple tuff and strong propylitization					
9 -							
10 -		10.33 - 20.52 strong propylitic (epidotization) altered porphyry, fsp phenocrysts completely replaced by epidote, calcite.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -		13.37 - 13.51 fault gouge and fault breccia, 65° to c.a., grey abundant pyrite adjacent porphyry more siliceous, abundant pyrite	1313	13.20	13.77	L	3.4
14 -							
15 -							
16 -		16.85 - 17.13 very strong epidotization					
17 -							
18 -							
19 -							
20 -		20.52 - 25.36 matrix silicified, strong propylitic (chlorite) porphyry with silica veining to micro breccia, up to 2% pyrite, some brecciation with fault gouge like material	1314 1315	20.00 20.52	20.52 21.00	L L	L L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			1316	21.0	22.0	L	L
22 -		22.26 - 22.29 breccia zone at 60° to core axis, mm pyrite cubes	1317	22.0	23.0	L	L
23 -			1318	23.0	24.0	L	3.4
24 -			1319	24.0	25.0	L	L
25 -		25.36 - 26.23 silica-pyrite breccia with dark grey fault gouge like material	1320	25.0	26.0	L	3.4
26 -		26.23 - 29.04 strong matrix silicified porphyry intensive silica veining to stockwork up to 2% pyrite, porphyritic texture preserved to partly obscured, dark green, chloritic matrix	1321	26.0	27.0	L	3.4
27 -			1322	27.0	28.0	L	L
28 -			1323	28.0	29.0	L	L
29 -		29.04 - 29.90 transition zone; decreasing matrix silicification, decreasing sulphide content 29.90 - 42.37 strong propylitic andesite minor quartz and grey green silica veining ± diss. pyrite	1324	29.00	29.90	L	3.4
30 -			1325	29.90	31.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -			1326	31.0	32.0	L	L
32 -			1327	32.0	33.0	L	L
33 -			1328	33.0	34.0	1.71	L
			2034Van	33.0	34.0	1.90	4.3
34 -			1443	34.0	35.0	L	L
35 -		35.90 veinlets of dark green silica	1444	35.0	36.0	L	L
36 -		36.17 1/2 cm dark grey silica structure, 60° to core axis					
37 -							
38 -							
39 -		39.30 - 40.20 quartz and grey green silica veining massive epidote	1329	39.30	40.20	L	L
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -		42.37 m END OF HOLE					
43 -							
44 -							
45 -							
46 -							
47 -							
48 -							
49 -							
50 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 17

CORE SIZE: NQ

DATE STARTED: 04.07 1985
DATE COMPLETED: 04.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 05.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L2+00 SE 0+40 SW (Silver Creek Grid)

SURVEY CO-ORDINATES 6587.77 N 8117.87 E

ELEVATION AT COLLAR 1675.26 m

TOTAL LENGTH 37.80 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
37.80 m	N 044 E	- 43°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.35 casing					
1 -							
2 -							
3 -		3.35 - 8.52 Weak propylitic porphyritic tuff pink fsp phenocrysts and hematite altered mafic phenocrysts in an aphanitic purple grey matrix, some lithic fragments					
4 -							
5 -							
6 -							
7 -							
8 -		8.52 - 18.00 medium to strong propylitic porphyry 8.95 - 9.03 fault zone breccia and gouge bordered by a 2 cm zone of dense dark grey silicification, 65° to c. a.					
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -							
16 -							
17 -							
18 -		18.00 - 21.87 very strong propylitic (epidotization) porphyry					
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.87 - 22.44 transition zone, increasing matrix - silicification of strong propylitic porphyry	1330	21.87	22.44	L	L
22 -		22.44 - 26.48 silica-sulphide zone, argillic alteration 22.44 - 23.38 silica-breccia/fault gouge, dark grey to black silica, brecciated, with grey fault gouge, abundant pyrite	1331	22.44	23.0	L	6.9
23 -		23.38 - 25.94 strong silicification with intensive quartz/silica veining to stockwork, abundant sulphides/pyrite	1332	23.0	23.38	L	20.6
		23.77 cm breccia/fault zone	1333	23.38	24.08	L	3.4
24 -			1334	24.0	25.0	L	L
25 -		25.94 - 26.48 silica breccia, fault gouge, strong silicification with abundant sulphides brecciated with fault gouge at 57° to core axis	1335	25.00	25.94	L	3.4
26 -			1336	25.94	26.48	L	6.9
		26.48 - 28.25 matrix silicification with strong epidotization, intensive quartz, silica veining, diss. pyrite, abundant chlorite	1337	26.48	27.00	L	3.4
27 -			1338	27.0	28.0	L	3.4
28 -		28.25 - 37.80 strong propylitic (epidotization) prophyry with calcite veining ± diss. pyrite weak matrix silicification	1339	28.0	29.0	L	3.4
29 -			1340	29.0	30.0	L	3.4
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.08 - 31.56 mm quartz-epidote-calcite veining to micro brecciation					
32 -							
33 -		33.77 mm quartz-epidote veinlet, 60° to c.a.					
34 -							
35 -							
36 -							
37 -		37.80 M END OF HOLE					
38 -							
39 -							
40 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SOUTH GRID MAIN ZONE

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 18

CORE SIZE: NQ

DATE STARTED: 06.07 1985
DATE COMPLETED: 08.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 07.+.30.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L9N 1+25 W South Grid

TOTAL LENGTH 248.41 m

SURVEY CO-ORDINATES (not surveyed)

ELEVATION AT COLLAR (not surveyed)

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 100 W	- 45°
60.96 m	N 100 W	- 44°
121.92 m	N 100 W	- 44°
182.88 m	N 100 W	- 44°
248.41 m	N 100 W	- 44°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.35 casing					
1 -							
2 -							
3 -		3.35 - 22.70 <u>weak propylitic altered porphyritic crystal tuff</u> 35% phenocrysts: fsp phenocrysts up to 0.8 cm Ø, zoned hematite stained, centre of crystal occasionally altered to chlorite or light greenish clay mineral, mafic phenocrysts (bi, hbl) hematization and pyritization					
4 -		groundmass: dark green, partly vuggy, abundant calcite as few mm Ø aggregates in groundmass and as mm veinlets (47° to core axis) minor approx. 1% diss. mostly euhedral pyrite with occasional increase in pyrite content (e.g. 6.54 - 8.50), irregular zone of strong hematitization of phenocrysts as well as matrix					
5 -							
6 -							
7 -							
8 -							
9 -							
10 -		10.46 - 10.55 fine grained layer of fragments, 60° to core axis.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		11.32 - 11.46 broken core approx. 11.00 - 13.00 slight increase in argillic alteration of fsp - phenocrysts					
12 -							
13 -							
14 -		14.17 mm quartz veinlet at 60° to core axis 14.37 - 14.39 small fault zone/gouge at 85°to core axis 14.97/15.03/15.21/15.27 mm quartz veinlets at 65° to core axis					
15 -							
16 -		16.15/16.59/16.61 mm quartz (calcite) veinlets at 60° to core axis 16.72 - 16.78 mm silica veinlets to stockwork; vuggy, brownish chalcedonic silica, limonitic staining 16.89/16.91 mm quartz veinlets at 65° and 63° to core axis	1936	16.72	16.92	L	L
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -		22.70 - 39.00 porphyritic crystal tuff with some lithic fragments alteration: weak hematitization and calcitization grey matrix with 30 - 35% fsp phenocrysts, unaltered with occasional very weak hematitic staining and hematite along fractures in fsp crystals, mafic phenocrysts hematitic altered (bi,hbl) Calcite finely dispersed in matrix fragments, up to several centimeters fine grained and strongly calcitic; some chlorite and much increased hematite and MnOx on fracture planes					
23 -							
24 -		(minor gregaritic texture)					
25 -							
26 -							
27 -							
28 -							
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -		starting with approx. 36.00 slight increase in alteration: hematite staining of phenocrysts and matrix, minor silicification around mm silica fractures, some clay alteration of fsp phenocrysts 36.80 - 37.05 broken core					
37 -							
38 -		38.10 - 38.17 fault gouge					
39 -		39.00 - 77.00 <u>weak propylitic porphyry</u> strong hematite staining of matrix and phenocrysts fracture controlled silica - argillic alteration mm silica veinlets at 65° to core axis with halo of bleached and silica-argillic alteration; partly limonite stained matrix, greenish where not hematite stained, abundant calcite in matrix, ± fresh biotite phenocrysts, some lithic fragments					
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -		43.96 - 44.20 fault zone with fault gouge and brecciated porphyry; limonitic, 65° to core axis					
44 -			1445	45.00	45.75	L	L
45 -			1342	45.75	46.25	1.71	24.0
			1342Van	45.75	46.25	1.42	24.2
46 -		46.00 3 cm wide zone 55° to c.a. with multiphase silica (grey to reddish chalcedonic silica) and calcite in siliceous porphyry	1446	46.25	47.00	L	L
47 -		47.87 - 48.21 broken core; zone approx. 55° to c.a. with argillic alteration of fsp phenocrysts green clay min.					
48 -		48.47 - 51.80 approx. 22.70 - 39.00 some irregular (silica) argillic alteration along fractures					
49 -							
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -		52.08 mm silica structure 45° to core axis 52.54 - 53.00 small (approx. mm) grey silica veinlets (chalcedonic dense silica) with enveloping bleached silica-argillic alteration envelope for about 1 cm at each side in very strong hematite stained porphyry; 60° to core axis	1343	52.50	53.00	L	3.4
53 -		53.30 as above					
54 -							
55 -							
56 -		56.40 - 62.00 approximately the same as 48.47 - 51.80					
57 -		57.70 irregular silica-argillic alteration around a fracture at 60° to core axis					
58 -							
59 -							
60 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.17 - 61.59 irregular, patchy silica-argillic alteration along fractures					
62 -							
63 -		63.30 - 63.50 fracture controlled irregular, patchy silicification 63.98 - 64.04 grey silica and calcite veinlets (55°, 40° to core axis) in siliceous porphyry	1954 1937 1937Van	63.00 63.90 63.90	63.90 64.15 64.15	L 1.71 1.38	L L 3.2
64 -			1955	64.15	65.00	L	L
65 -		65.75 - 66.20 irregular, patchy silicification with argillic altered fsp phenocrysts 65.75 - 69.93 strong (silica) argillic alteration with intensive hematite staining					
66 -			1938	66.0	67.0	L	L
67 -			1939	67.0	68.0	L	L
68 -			1940	68.0	69.0	L	L
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.63 - 76.05 diffus, patchy silica-argillic alteration, with small silica veinlets 65° and 30° to core axis, fsp phenocrysts partly to completely argillic altered					
72 -		72.50 - 73.30 approximatley the same as 48.57 - 51.80					
73 -							
74 -			1941	74.0	74.68	L	L
75 -							
76 -							
77 -		77.00 - 80.15 strong argillic, alteration strongest between 78.04 and 78.20, rock bleached, fine fractures					
78 -			1942	78.0	79.0	L	L
79 -							
80 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -		81.15 - 85.24 increasing silica-argillic alteration in strong hematite stained porphyry with a multiphase chalcedonic silica structure (30° to core axis) at 83.67 - 83.89	1344	81.50	82.40	L	3.4
82 -							
83 -			1943	83.67	83.89	L	3.4
84 -							
85 -		85.24 - 86.38 argillic altered porphyry with strong hematite staining					
86 -		86.38 - 91.07 silica-argillic altered porphyry intensive silicification of the matrix, abundant diss pyrite up to 2%, mostly anhedral, biotite as ± fresh phenocrysts slightly bleached; light grey-green color of matrix					
87 -			1345	87.0	88.0	L	L
88 -			1346	88.0	89.0	L	L
89 -			1347	89.0	90.0	L	L
90 -		at 90.15 colour change of matrix to darker green, few quartz eyes	1348	90.0	91.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -		91.07 - 94.82 very strong silica (argillic) alteration light pink; abundant quartz phenocrysts pseudomorph after fsp and mafic phenocrysts; quartz schlieren and non-silica veinlets, no sulphides	1349	91.0	92.0	L	L
92 -			1350	92.0	93.0	L	3.4
93 -			1351	93.0	94.0	L	L
94 -		94.82 - 95.40 strong silica-argillic alteration, no remmant texture, layering of brown, greenish, light grey silica at 35° to core axis	1352	94.00	94.82	L	L
			1353	94.82	95.40	0.34	6.9
95 -		95.40 - 96.41 silica-argillic altered porphyry; diss. pyrite approx. 1%, fresh to pyritic altered biotite phenocrysts	1354	95.40	96.41	L	3.4
96 -		96.41 - 98.70 argillic (silica) altered porphyry; very intensive hematite staining of phenocrysts and matrix	1355	96.41	97.41	L	L
97 -							
98 -		98.70 - 99.77 silica-argillic altered porphyry, with diss. sulphides (pyrite) approx. 1%	1356	98.70	99.77	L	L
99 -		99.62 2 cm fault gouge 40° to c.a. 99.77 - 102.65 weak silica-argillic alteration mm silica structures; strong hematite staining;					
100 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -							
102 -		102.65 - 124.40 fsp-porphyry crystal tuff with some lithic fragments, weak magnetic, occasionally minor argillic alteration of fsp phenocrysts, weak propylitic alteration weak hematization and calcitization dark green grey matrix, mm calcite veinlets; biotite phenocrysts partly replaced by pyrite					
103 -							
104 -		104.77 - 104.90 small breccia with hematite stained calcite					
105 -							
106 -							
107 -							
108 -							
109 -							
110 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -		111.13 - 111.26 mm calcite and dense grey silica veinlets with Cm halo of diss. pyrite and weak matrix - silicification 111.53 - 111.66 silicification and bleaching - hematite staining around a minor silica structure, diss. pyrite					
112 -							
113 -		113.92 2 mm grey silica/calcite structure at 37° to core axis; ± 5 cm halo at both sides with silicification and diss. pyrite					
114 -							
115 -							
116 -		116.10 - 116.59 stronger matrix silicification and hematite staining of fsp phenocrysts, abundant diss. pyrite	1357	116.10	116.59	L	3.4
117 -							
118 -							
119 -		119.20 - 124.40 hematite staining of fsp phenocryst; mm calcite veining intensive calcitization (not magnetic)					
120 -		120.55 - 120.61 calcite-pyrite structure at 39° to core axis with siliceous and hematite stained halo	1358	120.45	121.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -							
122 -							
123 -							
124 -		124.40 - 125.46 silica (argillic) altered porphyry intensive silicification of matrix (reddish brown) some quartz eyes; hematite stained fsp phenocrysts, approx. 1% diss. pyrite, biotite phenocrysts.	1350	124.55	125.46	L	L
125 -		125.46 - 129.95 very strong silica(argillic) altered porphyry light pink; abundant quartz-veinlets and schlieren, no sulphides/pyrite 125.46 - 125.63 no remnant texture; layering of brown, reddish, greenish, light grey silica; rich in manganese Ox	1360	125.46	126.00	L	L
126 -			1361	126.0	127.0	L	L
127 -			1362	127.0	128.0	L	L
128 -			1363	128.0	129.0	L	L
129 -		129.95 - 130.53 strong (silica) argillic alteration	1364	129.0	129.94	L	L
130 -		130.26 - 130.44 layering at approx. 40° to core axis multicoloured; brown, reddish, green, dark green	1365	129.94	130.44	L	L
		130.53 - 131.70 silica (argillic) altered porphyry approximately the same as 124.40 - 125.46	1366	130.44	131.50	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -		131.70 - 140.70 fsp porphyry approx. the same as 102.65 - 124.40 weakly altered, weakly magnetic					
132 -							
133 -							
134 -							
135 -							
136 -							
137 -		137.70 - 138.60 bleaching and weak silica-argillic alteration, diss. pyrite up to 1%, at 30° to c.a.	1367	137.80	138.36	L	3.4
138 -							
139 -							
140 -		140.76 - 156.40 strongly hematite stained porphyry (weak propylitic) with light brecciation (structurally controlled) zones of silica-argillic alteration, leached zones with diss. pyrite					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -							
142 -							
143 -							
144 -							
145 -							
146 -							
147 -							
148 -							
149 -							
150 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -							
152 -							
153 -							
154 -							
155 -							
156 -		156.40 - 243.00 fsp porphyry, fsp phenocrysts slightly hematite stained; brownish, green matrix, weak hematitization of mafic phenocrysts moderate calcitization, mm calcite veinlets, weakly magnetic in places where no hematite staining of fsp phenocrysts, fsp phenocryst occasionally argillic altered, especially in more fractured sections					
157 -							
158 -							
159 -							
160 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
161 -							
162 -							
163 -							
164 -		164.05 - 164.83 massive calcite - silica breccia with rhodochrosite; minor diss. (euhedral pyrite; siliceous halo)	1368	164.00	164.50	L	3.4
165 -							
166 -							
167 -		167.60 - 172.60 moderate silica-argillic alteration with silica and calcite veining to breccia; bleached to a light green-grey colour; up to 2% diss. pyrite; mm fine network of grey silica veinlets (green clay mineral)					
168 -			1369	167.81	168.81	L	L
169 -			1370	168.81	170.00	L	L
170 -		170.10 - 170.50 intensive silica-calcite veining to breccia, 40° to core axis 170.76 - 170.81 calcite breccia 170.91 - 170.98 calcite breccia	1371	170.0	171.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
171 -		171.27 - 171.38 intensive calcite, (silica) veining to breccia 171.70 - 171.84 intensive calcite, (silica) veining to breccia	1372	171.0	172.0	L	L
172 -		172.00 - 172.50 intensive calcite, (silica) veining to breccia	1373	172.00	172.60	L	3.4
173 -							
174 -							
175 -		175.11 - 175.35 argillic alteration 175.75 - 175.90 weak argillic alteration					
176 -							
177 -							
178 -							
179 -							
180 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
181 -							
182 -							
183 -							
184 -							
185 -							
186 -							
187 -							
188 -							
189 -							
190 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
191 -							
192 -							
193 -							
194 -							
195 -							
196 -							
197 -							
198 -							
199 -							
200 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
201 -							
202 -							
203 -							
204 -		204.56 - 204.86 strong hematite staining of matrix					
205 -							
206 -							
207 -							
208 -							
209 -							
210 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
211 -							
212 -							
213 -							
214 -							
215 -							
216 -							
217 -							
218 -							
219 -							
220 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
221 -		221.00 - 243.00 mm to cm calcite veinlets in irregular intervals (10-30 cm) and calcite in tension gashes at 35° to core axis					
222 -							
223 -							
224 -							
225 -		225.65 - 226.17 strong hematite stained zone with calcite breccia at 35° to core axis					
226 -							
227 -							
228 -							
229 -							
230 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
231 -							
232 -							
233 -		233.15 - 236.50 very weak <u>silica-argillic</u> alteration, few mm silica (grey) veinlets					
234 -							
235 -							
236 -							
237 -							
238 -							
239 -							
240 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
241 -							
242 -							
243 -		243.00 - 248.12 silica-argillic altered porphyry bleached, brecciated with calcite, extensive siliceous halos diss. pyrite less than 1%, fresh biotite					
244 -			1374	244.0	245.0	L	L
245 -			1375	245.0	246.0	L	L
246 -			1376	246.0	247.0	L	L
247 -		247.00 - 247.86 (silica) argillic alteration 247.86 - 248.12 siliceous porphyry					
248 -		248.12 END OF HOLE					
249 -							
250 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: AMETHYST ZONE

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER BULLET FRACTION

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 19

CORE SIZE: NQ

DATE STARTED: 08.07 1985
DATE COMPLETED: 09.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 11.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L 8 + 50 N 1 + 50 E (South Grid)

TOTAL LENGTH 123.14 m

SURVEY CO-ORDINATES Not Surveyed

ELEVATION AT COLLAR Not Surveyed

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 070 E	- 45°
60.96 m	N 070 E	- 47°
120.39m	N 070 E	- 46°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 4.57 casing					
1 -							
2 -							
3 -							
4 -		boulders of Sustut Conglomerate and sandstone 4.57 - 78.06 fresh to weak propylitic porphyritic andesite with fsp (white to pink reddish), hornblende and biotite phenocrysts in a greenish grey aphanitic matrix mm calcite - veinlets, some calcite in matrix					
5 -		rich in manganese - oxides on fractures, slightly increasing propylitic alteration with depth; chloritization of mafic phenocrysts					
6 -		orientation calcite veinlets: 50°, 70° 63°, 70° 57°, 55°					
7 -		some lithic fragments hematitization					
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -							
16 -							
17 -							
18 -							
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -							
24 -							
25 -		some fsp phenocrysts argillic altered					
26 -		matrix darkened					
27 -							
28 -		approx. 28.50 to 31.00 increased argillic alteration argillitization of fsp - phenocrysts, core partly broken and soft					
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -							
37 -							
38 -		from 38.38 small, mm quartz veinlets, increasing matrix silicification fsp phenocrysts partly to completely argillic altered rich in manganese Oxide on fractures					
39 -							
40 -		mm - calcite fractures every 10 to 30 cm, fsp phenocrysts partly argillic altered, biotite phenocrysts slightly coroded ± diss. pyrite					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.18 - 41.47 increased diss. pyrite	1447	41.0	42.0	L	L
42 -		42.00 - 42.20 calcite veining to micro breccia 42.86 - 42.92 calcite-micro breccia 40° to c.a.	1448	42.0	43.0	L	L
43 -							
44 -							
45 -		45.21 - 45.85 mm quartz veining to stockwork	1449	45.0	46.0	L	L
46 -							
47 -							
48 -		48.88 - 49.00 quartz-calcite mm veinlets at 60° to core axis					
49 -							
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.91 - 52.03 intensive calcite veining to micro breccia					
52 -							
53 -		zoned fsp phenocrysts partly argillic altered (from centre outwards)					
54 -							
55 -							
56 -							
57 -		57.44 - 57.50 calcite-silica breccia					
58 -							
59 -							
60 -		60.60 to 60.85 massive calcite veining					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -							
63 -							
64 -							
65 -							
66 -							
67 -		67.24 - 67.55 broken core, increased argillic alteration; fsp phenocrysts completely clay altered					
68 -		68.11 - 68.32 broken core					
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.47 - 72.08 broken core and stronger argillic alteration					
72 -							
73 -							
74 -							
75 -		75.82 - 78.06 clay altered (fsp phenocrysts) porphyry					
76 -		porphyritic andesite					
77 -		matrix silicified porphyry with clay altered phenocrysts and increased diss. pyrite					
78 -		78.06 - 79.20 increased argillic alteration and silicification 78.18 1/2 cm quartz veinlet with calcite and sulphides (pyrite) 13° to core axis					
79 -		79.20 - 87.60 Limonitic stained, argillic altered (fsp phenocrysrs) and silicified porphyry with diss. pyrite	1377Van 1377	79.50	80.00	0.083 L	2.2 L
80 -		with silica veining to stockwork abundant hematite, much greater MnOx	1378Van 1378	80.00	81.00	0.047 L	2.7 L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			1379Van 1379	81.0	82.0	0.078 L	2.0 L
82 -			1380Van 1380	82.0	83.0 L	0.019 L	2.3
83 -		83.55 veining 37° to c.a.	1381Van 1381	83.0	84.0	0.038 L	2.5 L
84 -			1382Van 1382	84.0	85.0	0.011 L	1.8 L
85 -			1383Van 1383	85.0	86.0	0.012 L	1.5 L
86 -		86.12 - 86.40 intensive chalcedony-multi phase silica veining to breccia with increased diss. sulphides	1384Van 1384	86.0	87.0	0.021 L	3.0 L
87 -		87.60 - 92.34 main chalcedony zone with amethyst breccia much greater time dispersed sulphides 87.95 - 88.41 fault gouge and breccia with fragments of argillic altered limonite stained porphyry	1385Van 1385	87.0	88.0	0.049 L	1.7 L
88 -			1386Van 1386	88.0	89.0	0.162 L	4.5 3.4
89 -			1387Van 1387	89.0	90.0	0.260 L	4.4 L
90 -			1388Van 1388	90.00	90.50	0.017 L	2.4 3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -		91.44 - 92.04 broken core, chalcedony breccia	1389	Van 90.50	91.25	0.029	2.3
			1389			L	L
			1390	Van 91.25	92.00	0.131	2.5
			1390			L	L
92 -		92.26 cm silica veinlets with different silica-phases, 65° to core axis	1391	Van 92.00	93.00	0.042	2.1
		92.34 - 93.00 limonite stained, argillic altered porphyry with silica veinlets	1391			L	L
93 -		93.00 - 111.10 weak matrix silicified porphyry, matrix reddish to dark red, abundant diss. pyrite, silica-and calcite veining, with minor amethyst to stockwork, fsp phenocrysts altered to clay, some limonite staining, decreasing frequency of silica-calcite veining with depth	1392	Van 93.00	94.00	0.001	1.0
			1392			L	L
94 -		93.80 - 93.88 silica-calcite breccia	1393	Van 94.00	95.00	0.036	1.5
			1393			L	L
95 -			1394	Van 95.00	96.00	0.003	1.3
			1394			L	L
96 -			1395	Van 96.00	97.00	0.002	1.1
			1395			L	3.4
97 -			1396	Van 97.00	98.00	0.002	0.9
			1396			L	L
98 -			1397	Van 98.00	99.00	0.001	1.2
			1397			L	L
99 -		99.35 - 99.55 silica - calcite intensive veining with amethyst	1398	Van 99.00	100.00	1.4	
			1398			L	3.4
100 -		100.86 - 101.00 broken core, increasing argillic alteration fsp phenocrysts totally altered to clay	1399	Van 100.00	101.00	0.003	1.2
			1399			L	3.4
		100.00 to 100.20 mm dark silica veinlets					
		91.90 - 102.60 and at 103.15 - 103.90 intensive silica-calcite veining to stockwork with minor amethyst					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -			1400Van 1400	101.00	102.00	0.001 L	1.0 3.4
102 -			1401Van 1401	102.0	103.0	0.022 L	1.3 3.4
103 -			1402Van 1402	103.0	104.0	0.018 L	1.0 3.4
104 -			1403Van 1403	104.0	105.0	0.014 L	1.2 L
105 -		105.27 - 105.42 intensive grey silica veining, multiphase silica 105.42 - 105.56 broken core 105.80 - 105.90 intensive silica veining with minor amethyst	1404Van 1404	105.0	106.0	0.049 L	9.2 6.9
106 -							
107 -		orientation of silica-calcite veinlets: 75°, 80°, 75°, 65°, 70°, 70°, 67°, 65°					
108 -							
109 -							
110 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -		111.10 - 123.14 hematite stained fsp phenocrysts, partly clay altered in a dark reddish purple matrix, limonite and MnOx rich, minor mm calcite veinlets					
112 -							
113 -							
114 -							
115 -							
116 -		116.43 - 117.04 broken core					
117 -							
118 -		118.11 - 120.40 broken core and stronger argillic alteration					
119 -							
120 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -							
122 -							
123 -		123.14 m END OF HOLE					
124 -							
125 -							
126 -							
127 -							
128 -							
129 -							
130 -							

ST. JOE CANADA INC. **DIAMOND DRILL LOG**

PROJECT: SILVER POND

ZONE: AMETHYST ZONE

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER BULLET FRACTION

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 20

CORE SIZE: NQ

DATE STARTED: 09.07 1985
DATE COMPLETED: 11.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 12.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L 7 N 2 + 00 E (South Grid)

TOTAL LENGTH: 132.59 m

SURVEY CO-ORDINATES: Not Surveyed

ELEVATION AT COLLAR: Not Surveyed

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 080 E	- 45°
60.96 m	N 080 E	- 47°
132.59 m	N 080 E	- 48°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 2.74 casing					
1 -							
2 -		2.74 - 132.59 porphyritic (andesitic) crystal tuff with some lithic fragments to agglomerate/ volcanic breccia 2.74 - 37.9 weak hematitization and carbonatization					
3 -		zoned pink fsp phenocrysts in an aphanitic, dark grey matrix, calcite as mm veinlets, and in the matrix, veinlets spaced at irregular intervals (less than 1 m)					
4 -		orientation 65°, 35°, 10°, 45° to core axis, biotite, and hornblende phenocrysts, abundant hematite as staining of matrix and phenocrysts and as specularite associated with calcite					
5 -		occasionally bleaching with weak matrix silicification					
6 -							
7 -							
8 -							
9 -							
10 -		10.80 1/2 cm calcite veinlet parallel to 10° to c.a.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -		13.80 calcite veinlet ± parallel to c.a.					
14 -							
15 -							
16 -							
17 -							
18 -		18.27 cm calcite structure at 55° to c.a., limonitic					
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -							
24 -							
25 -							
26 -		at approximately 26.50 slight increase of propylitization ± epidote, chlorite					
27 -							
28 -							
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -		32.12 - 32.24 zone of limonite staining with increased matrix silicification, calcite veining at 60° to c.a.					
33 -							
34 -							
35 -							
36 -							
37 -		37.90 cm quartz veining at 20° to c.a. 37.90 - 85.38 <u>increasing argillic alteration</u> fsp - phenocrysts altered to clay, core partly broken, manganese oxide rich on fractures					
38 -							
39 -							
40 -		39.50 - 39.60 intensive calcite veining to breccia, strong limonite					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -		44.20 - 44.60 calcite veining to micro breccia and nests in a zone of increased argillic alteration 60° to core axis fsp phenos altered to a greenish-yellow stained/coloured clay mineral					
43 -							
44 -							
45 -							
46 -							
47 -							
48 -							
49 -							
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -		52.00 - 52.36 layers of fine grained andesite 40° to core axis 52.85 - 52.95 calcite breccia with diss. sulphides (pyrite)					
53 -							
54 -		54.08 - 54.26 calcite-breccia, diss. pyrite					
55 -							
56 -		56.70 - 57.70 mm calcite-quartz filled fractures with slickensides, 25° to core axis with hematite staining 20 to 30 cm intervals; some diss pyrite					
57 -							
58 -							
59 -							
60 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -							
63 -		63.93 small fault with 1/2 cm of gouge at 25° to the core axis					
64 -							
65 -							
66 -							
67 -							
68 -							
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -							
72 -		72.07 - 72.33 intensive calcite veining at 60° to core axis					
73 -							
74 -							
75 -		weak matrix silicified porphyry fsp phenocrysts argillic altered, greater diss. sulphides calcite veining to breccia	1405	74.68	75.32	L	L
76 -							
77 -							
78 -							
79 -		calcite veinlets to micro breccia, much increased manganese oxides	1406	79.50	80.50	L	L
80 -		increased sulphides, scattered calcite veinlets	1407	80.50	81.50	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -							
82 -							
83 -							
84 -							
85 -		85.38 - 88.80 increased matrix silicification with abundant diss. pyrite; dark grey-green to dark purple aphanitic matrix with hematite stained fsp phenocrysts partly altered to clay minerals, biotite fresh, fine less than mm, net of calcite veinlets (pyrite approx. 2% partly euhedral)					
86 -		pyrite partly 'in' biotite					
87 -		87.71 - 88.80 strong matrix silicification with abundant pyrite, calcite veining, red to dark grey-green matrix	1408Van 87.71 1408		88.80	0.013 L	2.3 L
88 -		88.80 - 93.81 Limonite stained manganese oxide rich clay altered porphyry much increased manganese oxides	1409Van 88.80 1409		90.00	0.002 L	0.9 L
89 -		± fresh biotite-phenocrysts, remnant porphyritic texture obliterated, quartz eyes	1410Van 90.00 1410		92.00	0.006 L	0.8 L
90 -		90.00 - 92.00 broken core, 1.3 m core recovered					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -							
92 -		92.35 - 92.50 much increased sulphides increased silicification					
93 -		93.81 - 100.89 multiphase silica-chalcedony breccia grey to reddish coloured chalcedony, mm veinlets of dark grey silica contain veinlets less diss. sulphides; with fragments of limonitic stained, argillic altered porphyry	1411Van 1411	92.00	93.81	0.023 L	2.0 L
94 -			1412Van 1412	93.81	94.50	0.089 L	1.6 L
			1413Van 1413	94.50	95.00	0.063	1.3 L L
95 -		95.63 - 95.77 strong calcitic matrix minor amethyst, some calcite in matrix partly strong boxwork,	1414Van 1414	95.0	96.0	0.067 L	1.4 L
96 -		96.01 - 96.53 minor chalcedony, silica in limonite stained argillic altered porphyry chalcedony and quartz structures 60° to c.a.	1415Van 1415	96.0	97.0	0.076 L	1.9 L
97 -			1416Van 1416	97.0	08.0	0.057 L	2.5 3.4
98 -		98.50 - 100.89 decreasing amount of chalcedony breccia, matrix contains increasing amounts of limonite stained porphyry	1417Van 1417	98.0	99.0	0.022 L	1.4 L
99 -			1418Van 1418	99.0	100.0 L	0.013 L	1.5
100 -		100.89 - 104.27 chalcedony-quartz-amethyst fractures with calcite to (micro) brecciation in intervals of 15 cm in limonite stained argillic altered and silicified porphyry ± quartz eyes 102.11 - broken core and loss of core 100.89 broken core and loss of core	1419Van 1419	100.00	100.89	0.025 L	1.6 L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -			1420Van 1420	100.89	102.0	0.017 L	1.4 L
102 -			1421Van 1421	102.0	103.0	0.013 L	1.3 L
103 -			1422Van 1422	103.0	104.0	0.016 L	1.6 L
104 -		104.27 - 115.24 chalcedony/quartz/calcite with amethyst structures, 1 to 5 cm wide in intervals of 10 to 50 cm in limonite stained, argillic altered and silicified porphyry diss. pyrite (overprinted propylitic alteration)	1423Van 1423	104.0	105.0	0.015 L	1.2 L
105 -		Structure: 62/5767/48/64/55° to core axis remnant porphyritic texture minor amethyst in veinlets as youngest silica-phase abundant hematite in veinlets and matrix	1424Van 1424	105.0	106.0	0.65 L	1.8 L
106 -		much increased manganese oxide on fractures	1425Van 1425	106.0	107.0	0.111 L	3.4 L
107 -			1426Van 1426	107.0	108.0	0.014 L	1.9 L
108 -			1427Van 1427	108.0	109.0	0.003 L	1.2 L
109 -			1428Van 1428	109.0	110.0	0.030 L	1.5 L
110 -			1429Van 1429	110.0	111.0	0.012 L	1.8 L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -			1430Van 1430	111.0	112.0	0.070 L	1.6 L
112 -			1431Van 1431	112.0	113.0	0.023 L	2.3 L
113 -			1432Van 1432	113.0	114.0	0.019 L	1.9 L
114 -			1434Van 1434	114.0	115.0	0.078 L	1.3
115 -		115.24 - 117.35 transition zone to weak argillic alteration, hematite; decreasing silicification; argillitization and limonite staining, agglomerate/volcanic breccia					
116 -							
117 -		117.35 - 124.70 porphyritic andesite, crystal tuff with fragments of agglomerate pink fsp phenocrysts in a dark green matrix; abundant calcite in mm veinlets 60° to core axis, minor argillic alteration, hematitization some limonite staining, zones with stronger matrix silicification					
118 -							
119 -		119.70 - 119.80 calcite micro breccia					
120 -		120.00 fault zone/gouge 25° to c.a. 120.47 - 120.75 calcite veining to micro-breccia, veins nearly parallel to core axis					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -							
122 -							
123 -							
124 -		124.25 - 124.34 fault zone/gouge 60° 124.70 - 129.06 strong limonite staining; much greater MnOx with argillic alteration, agglomerate					
125 -		125.20 - 125.75 stronger matrix silicification, slightly bleached					
126 -							
127 -							
128 -		128.09 - 128.23 calcite breccia					
129 -			1433	129.00	129.50	L	L
		129.06 - 132.59 silica-calcite breccia agglomerate, reddish-green matrix, weak argillic (and propylitic) alteration, hematitization					
130 -		130.85 fault zone with gouge and calcite, 40° to core axis, calcite veining argillic alteration of fsp phenocrysts					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -							
132 -		132.59 m END OF HOLE					
133 -							
134 -							
135 -							
136 -							
137 -							
138 -							
139 -							
140 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: CLIFF CREEK EXTENSION

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 21

CORE SIZE: NQ

DATE STARTED: 11.07 1985
DATE COMPLETED: 13.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 14.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L 6 + 50 N 2 + 75 W (South Grid)

TOTAL LENGTH: 172.21 m

SURVEY CO-ORDINATES: Not Surveyed

ELEVATION AT COLLAR: Not Surveyed

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 080 E	- 45°
60.96 m	N 080 E	- 44°
121.92 m	N 080 E	- 45°
172.21 m	N 080 E	- 45°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 6.10 casing					
1 -							
2 -							
3 -							
4 -							
5 -							
6 -		6.10 - 172.21 porphyritic crystal tuff with some lithic fragments 6.10 - 70.97 fsp - porphyritic tuff, fresh to weak propylitic 30 - 35% phenocrysts in grey to green matrix, fresh to hematite stained fsp phenocrysts; fsp phenocrysts partly zoned with centre occasionally altered to clay biotite and hornblende phenocrysts partly hematite altered (± chlorite) moderate calcification; calcite in matrix and as fine veining to micro brecciation MnOx on fracture planes					
7 -							
8 -		fsp phenocrysts clay altered close to fractures					
9 -		9.84 - 10.10 calcite breccia with minor silica					
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -							
16 -							
17 -							
18 -							
19 -							
20 -		at 20.60 calcite microbreccia					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.00 - 21.34 calcite veining, hematite epidote					
22 -							
23 -							
24 -							
25 -		25.06 - 25.07 calcite veinlet at 80° to core axis					
26 -							
27 -							
28 -							
29 -							
30 -		30.30 - 31.80 slight hematite staining of matrix and phenocrysts					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -							
37 -							
38 -							
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
		layering, as indicated by a fine grained, crystal tuff layer, 65° to core axis					
44 -							
45 -			1486	45.0	46.0	L	L
46 -			1487	46.0	47.0	L	L
47 -			1488	47.0	48.0	L	L
48 -			1489	48.0	49.0	L	L
49 -			1490	49.0	50.0	L	L
50 -			1491	50.0	51.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -			1492	51.0	52.0	L	L
52 -			1493	52.0	53.0	L	L
53 -			1494	53.0	54.0	L	L
54 -			1495	54.0	55.0	L	L
55 -			1496	55.0	56.0	L	L
56 -			1497	56.0	57.0	L	L
57 -			1498	57.0	58.0	L	L
58 -			1499	58.0	59.0	L	L
59 -			1500	59.0	60.0	L	L
60 -			1501	60.0	61.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1502	61.0	62.0	L	L
62 -			1503	62.0	63.0	L	L
63 -			1504	63.0	64.0	L	L
64 -			1505	64.0	65.0	L	L
65 -		65.87 - 66.07 massive calcite nests	1506	65.00	65.75	L	L
66 -			1450	65.75	66.25	L	L
67 -		67.09 - 67.17 fault zone/gouge approx. 70° to core axis 67.09 - 70.97 weak silica-argillic alteration	1451	67.0	68.0	L	L
68 -		68.11 - 68.42 slightly brecciated 68.57 - 68.75 broken core	1452	68.0	69.0	L	L
69 -			1453	69.0	70.0	L	L
70 -		70.97 - 101.70 <u>weak propylitic</u> <u>slightly siliceous porphyry</u> with fsp - phenocrysts hematite stained, partly clay altered ± fresh biotite phenocrysts approx. 1% diss. pyrite very fine veining to micro brecciation of calcite and silica; dark reddish brown matrix, abundant chlorite increased epidotization from 92.50	1454	70.0	71.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -			1455	71.0	72.0	L	L
72 -			1456	72.0	73.0	L	L
73 -			1457	73.0	74.0	L	L
74 -			1458	74.0	75.0	L	L
75 -		75.25 - 75.41 massive calcite veining and calcite microbreccia with chlorite 75.78 - 76.06 fsp phenocrysts clay altered, calcite veining with chlorite, mm dark grey silica veinlets, abundant diss. pyrite	1459	75.0	76.0	L	L
76 -		76.36 - 76.76 calcite (chlorite) micro breccia approx. 60° to core axis	1460	76.0	77.0	L	L
77 -		77.80 - 78.03 intensive calcite veining to micro brecciation	1461	77.0	78.0	L	L
78 -			1462	78.0	79.0	L	L
79 -		79.41 - 79.50 strong epidotization as veining and micro breccia	1463	79.0	80.0	L	3.4
80 -			1464	80.0	81.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			1465	81.0	82.0	L	L
82 -			1466	82.0	83.0	L	3.4
83 -			1467	83.0	84.0	L	3.4
84 -			1468	84.0	85.0	L	L
85 -			1469	85.0	86.0	L	L
86 -			1470	86.0	87.0	L	L
87 -			1471	87.0	88.0	L	L
88 -			1472	88.0	89.0	L	L
89 -			1473	89.0	90.0	L	L
90 -			1474	90.0	91.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -			1475	91.0	92.0	L	L
92 -			1476	92.0	93.0	L	L
93 -			1477	93.0	94.0	L	L
94 -			1478	94.0	95.0	L	L
95 -							
96 -							
97 -		97.15 - 97.39 calcite/dark silica veining at 62° to core axis	1479	97.0	98.0	L	L
98 -			1480	98.0	99.0	L	L
99 -			1485	99.0	100.0	L	L
100 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -		101.70 - 117.00 weak propylitic altered porphyry hematite staining of fsp phenocrysts abundant calcite in matrix epidote/chlorite alteration calcite/chlorite filled vugs mm fine grey green silica veinlets					
102 -							
103 -							
104 -		104.50 - 104.60 intercalation of hornblende/calcite rich layer at 65° to c.a.					
105 -							
106 -							
107 -							
108 -							
109 -		109.70 - 110.60 mm grey green silica veinlets					
110 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -							
112 -							
113 -							
114 -		114.10 - 114.20 massive calcite nests					
115 -		115.95 - 117.00 weak argillic alteration					
116 -							
117 -		117.00 - 125.50 slightly siliceous porphyry with abundant diss. pyrite and pyrite on fractures dark silica veinlets with calcite, 60° to core axis, calcite nests, weak propylitic alteration.	1507	117.0	118.0	L	L
118 -			1508	118.0	119.0	L	3.4
119 -			1509	119.0	120.0	L	L
120 -			1510	120.0	121.0	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -			1511	121.0	122.0	L	L
		decreasing siliceous and pyrite content					
122 -			1512	122.0	123.0	L	L
123 -		123.39 - 123.44 calcite/clay structure - fault at 50° to core axis	1513	123.0	124.0	L	L
124 -			1514	124.0	125.0	L	L
125 -		125.50 - 135.50 strong hematite stained, weak (silica) argillic altered porphyry mm calcite veinlets	1515	125.0	126.0	L	L
126 -							
127 -							
128 -							
129 -			1517	129.45	130.37	L	L
130 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -							
132 -		increasing silicification					
133 -							
134 -			1481	135.00	135.50	L	L
135 -		135.50 - 136.32 silica-argillic altered porphyry hematite stained, slightly bleached approx. 1% diss. pyrite ± fresh biotite phenocrysts, mm silica veining approx. 35° to c.a.	1482	135.50	136.38	L	L
136 -		136.32 - 137.48 strong silica-argillic alteration bleached light pink; abundant quartz phenocrysts pseudomorph after fsp phenocrysts, no sulphides	1483	136.38	137.48	L	L
137 -		137.48 - 138.38 silica-argillic altered porphyry approx. the same as 135.50 - 136.32	1848	137.48	138.38	L	L
138 -		138.38 - 144.70 strong hematite stained, weak, (silica) argillic altered porphyry approx. the same as 125.50 - 135.50, mm calcite veining and abundant calcite in matrix					
139 -							
140 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -							
142 -							
143 -							
144 -		144.70 fsp porphyry fresh, magnetic with weak hematitization and carbonatization with zones, fracture controlled, of weak argillic alteration with hematite staining					
145 -		of fsp phenocrysts and matrix					
146 -							
147 -							
148 -							
149 -		149.00 - 151.30 strong hematite staining and weak argillic alteration to moderate argillic alteration					
150 -			1518	150.15	151.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -							
152 -							
153 -							
154 -							
155 -							
156 -		156.60 hematite staining of fsp-phenocrysts and weak hematite staining of matrix mm calcite veining not magnetic 156.77 cm calcite veinlet at 30° to core axis					
157 -							
158 -							
159 -							
160 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
161 -							
162 -							
163 -							
164 -							
165 -							
166 -							
167 -							
168 -		168.25 - 168.37 fine grained layer at 65° to core axis					
169 -							
170 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
171 -							
172 -		172.21 m END OF HOLE					
173 -							
174 -							
175 -							
176 -							
177 -							
178 -							
179 -							
180 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: CLIFF CREEK EXTENSION

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 22

CORE SIZE: NQ

DATE STARTED: 14.07 1985
DATE COMPLETED: 15.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 15.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L 7N at 1+25 W (South Grid)

TOTAL LENGTH: 153.92 m

SURVEY CO-ORDINATES: Not Surveyed

ELEVATION AT COLLAR: Not Surveyed

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 080 E	- 45°
60.96 m	N 080 E	- 45°
121.92 m	N 080 E	- 45°
153.92 m	N 080 E	- 45°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 6.10 casing					
1 -							
2 -							
3 -							
4 -							
5 -							
6 -		6.10 - 153.92 <u>fsp porphyritic crystal tuff and lithic fragments</u> 6.10 to approximately 89.00 weak propylitic porphyry with approx. 35% phenocrysts in green to brownish red green matrix					
7 -		hematite stained fsp phenocrysts, zoned mafic phenocrysts (hornblende, biotite) partly hematite, calcite altered, abundant calcite in matrix 6.10 - 13.00 broken core; abundant MnOx along fractures, mm calcite veining					
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -			1947	11.0	12.0	L	L
12 -		12.00 - 13.50 minor grey to dark grey chalcedonic silica veining, vuggy, MnOx on fractures	1519	12.0	13.0	0.34	3.4
13 -			1520	13.00	13.50	0.34	3.4
14 -		14.76 - 14.98 fine grained intercalation					
15 -							
16 -							
17 -			1521	17.0	18.0	L	L
18 -		18.90 - 25.00 slightly siliceous; diss. pyrite and pyrite on fracture planes; vuggy, fine grey silica/calcite veining	1522	18.0	19.0	L	L
19 -		19.81 - 22.20 broken core, rich in MnOx, loss of core	1523	19.0	20.0	L	L
20 -			1524	20.0	21.0	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			1525	21.0	22.0	L	L
22 -			1526	22.0	23.0	L	L
23 -			1527	23.0	24.0	L	L
24 -			1528	24.0	25.0	L	L
25 -		25.00 - 28.20 weak silicification with weak argillic alteration of fsp phenocrysts grey quartz silica and calcite veining/stockwork to micro brecciation (25.40 - 25.70) diss. pyrite approx. 1%, hematite coatings on fracture planes, partly vuggy	1529	25.0	26.0	0.69	10.3
26 -			1530	26.0	27.0	L	3.4
27 -			1531	27.0	28.0	0.69	L
28 -		28.20 - 89.00 fsp phenocrysts partly altered to clay, minor mm calcite veining hematite along fractures, partly magnetic fluctuating very weak alteration;	1532	28.0	29.0	L	L
29 -		fresh with weak hematitization, calcitization, propylitization and argillic alteration zones with white to greenish coloured fsp - phenocrysts magnetic compared to non-magnetic zones with hematite stained fsp phenocrysts					
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -		36.11 - 36.20 calcite - micro breccia at 60° to core axis	1533	36.00	36.50	L	L
37 -							
38 -							
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -		44.00 cm hematite calcite structure to microbreccia, at 30° to core axis 44.46 - 44.73 calcite veinlet with minor dark grey silica; hematite ± parallel to core axis					
45 -							
46 -							
47 -							
48 -							
49 -		49.20 - 50.20 grey silica/calcite veining with hematite stained calcite, diss. pyrite 1%, chlorite, MnOx	1534	49.20	50.10	L	L
50 -			1535	50.10	50.50	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.81 - 55.24 strong magnetic zone, light greenish - blue tinted fsp phenocrysts in aphanitic dark green grey matrix, minor carbonatization					
52 -							
53 -							
54 -							
55 -		55.24 - 55.26 fracture with weak brecciation, 55° to core axis					
56 -							
57 -							
58 -							
59 -		59.13 - 59.44 broken core 59.44 - 59.90 mm silica-calcite veining	1536	59.44	60.00	L	L
60 -			1949	60.0	61.0	1.03	L
			1949Van	60.0	61.0	0.89	3.9

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.18 - 61.34 brecciated zone at 60° to core axis, mm silica veining ± diss. pyrite, strong hematite	1537	61.00	61.50	0.34	L
62 -			1950	61.50	62.00	L	L
63 -							
64 -							
65 -							
66 -							
67 -							
68 -							
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -							
72 -							
73 -							
74 -							
75 -							
76 -							
77 -							
78 -							
79 -							
80 -		80.53 to 80.72 hematitization around mm calcite filled fractures at 53° to core axis; fsp phenocrysts hematite stained, ± diss. sulphides	1538	80.50	80.75	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -							
82 -		82.92 calcite veining (with chlorite) with hematite stained halo					
83 -							
84 -							
85 -		85.00 - 87.60 strong hematite staining of phenocrysts and matrix ± diss. pyrite weak brecciation					
86 -							
87 -							
88 -							
89 -		89.00 - 128.15 porphyritic crystal tuff, fresh, magnetic, weak carbonatization, hematitization minor calcite veining and filling of tension gashes with calcite/hematite					
90 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -							
92 -							
93 -							
94 -							
95 -							
96 -							
97 -		97.16 - 97.36 cm calcite vein to micro breccia ± parallel to core axis					
98 -							
99 -							
100 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -		101.64 and 101.78 calcite mm veining 60° to core axis with pyrite					
102 -							
103 -							
104 -							
105 -							
106 -							
107 -							
108 -							
109 -		109.95 - 114.53 weak hematite staining of matrix and strong hematite staining of fsp phenocrysts					
110 -		110.37 - 110.42 calcite veining to micro breccia, hematite, pyrite					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -		111.62 - 111.70 calcite veining with some dense dark green silica 50° to core axis; hematite staining, diss. pyrite	1539	111.60	111.75	L	3.4
112 -							
113 -							
114 -		114.30 - 114.35 calcite micro breccia					
115 -							
116 -							
117 -							
118 -							
119 -							
120 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -							
122 -							
123 -		123.56 mm grey silica and calcite veining 55° to core axis					
124 -							
125 -							
126 -							
127 -							
128 -		128.15 - 138.60 weak propylitic alteration hematite staining of phenocrysts and matrix; calcite-hematite veining to microbrecciation ± diss. pyrite					
129 -		intensive microfracturing to weak brecciation fractures with hematite (133.90 - 138.60)					
130 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -							
132 -							
133 -							
134 -							
135 -			1948	135.0	136.0	L	L
136 -							
137 -							
138 -		138.60 - 153.92 hematite staining of phenocrysts, weak propylitic alteration frequent calcite veinlets, minor diss. pyrite orientation of fractures 50° to core axis					
139 -							
140 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -							
142 -							
143 -							
144 -							
145 -							
146 -							
147 -							
148 -							
149 -							
150 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -							
152 -							
153 -		153.92 m END OF HOLE					
154 -							
155 -							
156 -							
157 -							
158 -							
159 -							
160 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: NORTH GRID
LOCATION (N.T.S.) 94 E/6E
CLAIM: SILVER POND
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 23
CORE SIZE: NQ

DATE STARTED: 16.07 1985
DATE COMPLETED: 17.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 18.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L 13 N , 1 + 50 W (North Grid)
TOTAL LENGTH: 195.99 m
SURVEY CO-ORDINATES: Not Surveyed
ELEVATION AT COLLAR: Not Surveyed
DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	NE	- 45°
60.96 m	NE	- 46°
121.92 m	NE	- 46°
183.79 m	NE	- 45°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 25.00 <u>silica-argillic alteration:</u> as an over print, over strong propylitic alteration, remnant porphyritic texture, grey-green coloured matrix with abundant anhedral pyrite, highly fractured, stronger silicification along fractures; abundant Fe-Ox on fracture planes, Mn-Ox, most of the core broken					
4 -		<u>minor quartz veining</u>, mafic minerals completely altered; pyrite or limonite outlining hornblende phenocrysts	1540	4.57	5.07	L	L
		3.05 - 4.57 broken core and loss of core					
5 -		4.57 - 5.07 fine quartz veining to micro brecciation stronger silicification and argillic alteration in the 'halo' of the veinlets					
		5.07 - 7.62 broken core and loss of core					
6 -							
7 -							
8 -							
9 -			1541	9.45	10.67	L	L
10 -			1542	10.67	11.58	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		11.58 - 12.49 broken core and loss of core	1543	11.58	12.49	L	L
12 -			1544	12.49	13.50	L	L
13 -			1545	13.50	15.00	L	L
14 -							
15 -			1546	15.00	16.00	L	L
16 -			1547	16.00	17.00	L	L
17 -			1548	17.00	18.00	L	L
18 -			1549	18.00	19.00	L	L
19 -			1550	19.00	20.00	L	L
20 -			1551	20.00	21.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.64 - 22.86 broken core and loss of core (recovery approx. 29%)	1552	21.00	22.86	L	L
22 -			1553	22.86	24.99	L	L
23 -							
24 -			1554	24.99	26.12	L	L
25 -		25.00 - 90.90 silica-argillic alteration, strong to pervasive silicification with abundant diss. sulphides (pyrite) as intensive silica stockwork in silicified porphyry with weak remnant texture breccia, to completely silicified, porous, with less mm dark silica veinlets, anhedral pyrite in patches and as small veinlets some mm - calcite veining	1555	26.12	27.00	L	L
26 -		26.12 - 26.24 dark grey fault gouge	1556	27.00	27.75	L	L
27 -		(minor cpy and galena ar 27.85)	1557	27.75	28.00	0.69	L
28 -		28.65 - 28.96 broken core and loss of core	1558	28.00	29.00	L	L
29 -			1559	29.00	30.00	L	L
30 -			1560	30.00	31.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.10 calcite veining	1561	31.00	32.00	L	L
32 -			1562	32.00	33.00	L	L
33 -		33.00 - 36.00 structure parallel to core axis with brecciation; stronger argillic at alteration 39.60 - 39.80 as above	1563	33.00	34.00	L	L
34 -			1564	34.00	35.00	L	L
35 -			1565	35.00	36.00	L	L
36 -			1566	36.00	37.00	L	L
37 -			1567	37.00	38.00	L	L
38 -			1568	38.00	39.00	L	L
39 -			1569	39.00	40.00	L	L
40 -			1570	40.00	41.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -			1571	41.00	42.00	L	L
42 -		42.98 - 44.20 approx. 35 cm core recovered	1572	42.00	44.20	L	L
43 -							
44 -			1573	44.20	45.00	L	L
45 -			1574	45.00	46.00	L	L
46 -			1575	46.00	47.55	L	L
47 -		47.53 vuggy quartz veining with euhedral quartz crystals, mm - fine pyrite strings 47.55 - 48.77 approx. 40 cm core recovered	1576	47.55	48.77	L	L
48 -			1577	48.77	50.00	L	L
49 -							
50 -			1578	50.00	51.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -			1579	51.00	52.00	L	L
52 -			1580	52.00	53.00	L	L
53 -		53.50 - 54.00 vugy quartz veining	1581	53.00	53.50	L	L
			1582	53.50	54.00	L	L
54 -		54.86 strong siliceous, better recovery	1583	54.00	55.00	L	L
55 -		55.07 cm dark silica structure 38° to core axis	1584	55.00	56.00	L	L
56 -			1585	56.00	57.00	0.34	L
57 -			1586	57.00	58.00	L	L
58 -			1587	58.00	59.00	0.34	L
59 -			1588	59.00	60.00	L	L
60 -		60.10 - 66.50 intensive silica veining and micro brecciation	1589	60.00	61.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1590	61.00	62.00	0.34	L
62 -			1591	62.00	63.00	L	L
63 -			1592	63.00	64.00	L	L
64 -			1593	64.00	65.00	L	L
65 -			1594	65.00	66.00	L	L
66 -		66.00 - 66.50 strong silicification with open space	1595	66.00	67.00	L	L
67 -		67.67 - 69.19 approx. 27 cm core recovered	1596	67.00	69.19	L	L
68 -							
69 -			1597	69.19	70.00	L	L
70 -			1598	70.00	71.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.63 - 74.68 no core recovered	1599	71.00	71.63	L	L
72 -							
73 -							
74 -		74.68 - 90.90 broken core strong silica-argillic altered rock fragments with much greater content of anhedral pyrite 74.68 - 77.72 50 cm core recovered	1600	74.68	77.72	L	L
75 -							
76 -							
77 -		77.72 - 78.94 35 cm core recovered	1601	77.72	78.94	L	L
78 -		78.94 - 80.44 70 cm core recovered	1602	78.94	80.47	L	L
79 -							
80 -		80.47 - 83.82 90 cm core recovered	1603	80.47	83.82	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -							
82 -							
83 -		83.82 - 88.08 100 cm core recovered	1604	83.82	88.08	L	L
84 -							
85 -							
86 -							
87 -							
88 -		88.08 - 89.92 no core					
89 -			1605	89.92	91.00	L	L
90 -		90.90 - 96.76 breccia with gouge at 60° to c.a., extremely sulphide rich, 1/2 cm veinlets with gypsum at 70°, 73°, 40° to core axis, breccia fragments partly siliceous, strong argillic alteration, strong argillic alteration, dark grey to light grey green					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -			1606	91.00	92.00	L	L
92 -			1607	92.00	93.00	L	L
93 -			1608	93.00	94.00	L	L
94 -			1609	94.00	95.00	L	L
95 -			1610	95.00	96.00	L	L
96 -		96.76 - 101.67 dark grey silica-argillic alteration less sulphides, veinlets of gypsum	1611	96.00	97.00	L	L
97 -		97.48 - 97.55 breccia with gypsum	1612	97.00	98.00	L	L
98 -			1613	98.00	99.00	L	L
99 -		99.00 - 99.12 breccia with fault gouge - and gypsum	1614	99.00	100.00	L	L
100 -			1615	100.00	101.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -		101.67 - 101.75 breccia 101.75 - 110.42 argillic (silica) alteration colour change to greenish white, minor diss. sulphides, weak remnant porphyritic texture	1616	101.00	102.00	L	L
102 -			1617	102.00	103.00	L	L
103 -		103.50 - 104.10 brecciation, gypsum veining 55° to c.a. phenocrysts altered to soft green clay mineral (montmorillonite ?)	1618	103.00	104.00	L	L
104 -			1619	104.00	105.00	L	L
105 -			1620	105.00	106.00	L	L
106 -			1621	106.00	107.00	L	L
107 -			1622	107.00	108.00	L	L
108 -			1623	108.00	109.00	L	L
109 -		109.37 cm breccia and gypsum fracture 35° to core axis 109.69 cm gypsum - fracture and brecciation 45° to core axis	1624	109.00	110.00	L	L
110 -		110.42 - 110.69 sulphide rich transition zone, gypsum, veinlets, minor brecciation 110.69 - 111.25 propylitic fsp - porphyry with pink fsp phenocrysts, diss. anhedral pyrite, gypsum veining	1625	110.00	111.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -		111.25 - 113.20 increasing pyrite rich argillic - silica alteration grading into a breccia at 112.10	1626	111.00	112.00	L	L
112 -			1627	112.00	113.00	L	L
113 -		113.20 - 122.22 (contact at 40° to core axis) matrix silicified fsp porhyry with pink, partly clay altered fsp phenocrysts, abundant diss. anhedral pyrite, Calcite veining and nests, mm dark silica veining, epidote	1628	113.00	114.00	L	L
114 -			1629	114.00	115.00	L	L
115 -			1630	115.00	116.00	L	L
116 -			1631	116.00	117.00	L	3.4
117 -			1632	117.00	118.00	L	L
118 -		118.60 - 120.10 black green, magnetic layer (dike ?) with pyrite rich, non magnetic transition zones at both ends, calcite veining porphyritic texture	1633	118.00	119.00	L	L
119 -			1634	119.00	120.00	L	L
120 -			1635	120.00	121.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -			1636	121.00	122.00	L	3.4
122 -		122.22 - 135.03 increasing matrix silicification of propylitic fsp porphyry much increased pyrite diss. and along fractures, some calcite veining, chlorite along fractures	1637	122.00	123.00	L	L
123 -			1638	123.00	124.00	L	L
124 -		124.07 - 124.19 fault gouge/breccia at 45° to core axis	1639	124.00	125.00	L	L
125 -		125.27 - 125.88 broken core and loss of core	1640	125.00	126.00	L	L
126 -			1641	126.00	127.00	L	L
127 -			1642	127.00	128.00	L	L
128 -			1643	128.00	129.00	L	L
129 -			1644	129.00	130.00	L	L
130 -			1645	130.00	131.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -			1646	131.00	132.00	L	L
132 -			1647	132.00	133.00	L	3.4
133 -			1648	133.00	134.00	L	L
134 -			1649	134.00	135.00	L	L
135 -		135.03 - 145.71 pink, strongly siliceous porphyry to reddish brown with diss. euhedral pyrite, calcite veining, mm silica veinlets, upper contact 60° to core axis	1650	135.00	136.00	L	L
136 -		center reddish brown, porphyritic texture well preserved, mafic minerals altered to chlorite and calcite, pink fsp phenocrysts, ± anhedral diss. pyrite, some fsp phenos altered to montmorillonite (?) grading laterally in both directions to a light pink colour, weak remnant porphyritic texture, euhedral pyrite crystals with very fine (less than mm) silica veining	1651	136.00	137.00	L	L
137 -		banding close to contact 55 to 60° to core axis	1652	137.00	138.00	L	L
138 -			1653	138.00	139.00	L	L
139 -			1654	139.00	140.00	L	L
140 -			1655	140.00	141.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -			1656	141.00	142.00	L	L
142 -			1657	142.00	143.00	L	L
143 -			1658	143.00	144.00	L	L
144 -		strong siliceous and banded transition zone at approx. 065° to core axis	1659	144.00	145.00	L	L
145 -			1660	145.00	145.50	L	L
			1661	145.50	145.71	L	L
		145.71 - 148.13 strongly pyritic (anhedral) matrix silicified, propylitic					
146 -		fsp porphyry with pink fsp, cm calcite veining 146.87 - 147.22 broken core	1662	146.00	147.00	L	L
147 -			1663	147.00	148.00	0.34	L
148 -		148.13 - 153.00 broken core					
		148.13 - 165.05 propylitic fsp porphyry with abundant diss. pyrite (anhedral) and euhedral increasing epidotization with depth, calcite veining and calcite in matrix	1664	148.00	149.00	L	L
149 -		149.00 - 151.49 100 cm core recovered	1665	149.00	151.49	L	L
150 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -		151.49 - 153.00 100 cm core recovered	1666	151.49	153.00	L	L
152 -							
153 -			1667	153.00	154.00	L	L
154 -			1668	154.00	155.00	L	L
155 -			1669	155.00	156.00	L	L
156 -			1670	156.00	157.00	L	L
157 -			1671	157.00	158.00	0.34	L
158 -							
159 -							
160 -		160.13 - 162.64 gypsum veinlets with minor calcite and abundant pyrite 50, 70, 25° to core axis	1672	160.00	161.00	0.34	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
161 -							
162 -							
163 -							
164 -			1673	164.00	165.00	L	L
165 -		165.05 175.69 silica (argillic) altered fsp porphyry with abundant pyrite (up to 5%) gypsum veining	1674	165.00	166.00	L	L
166 -			1675	166.00	167.00	L	L
167 -			1676	167.00	168.00	L	L
168 -			1677	168.00	169.00	L	L
169 -		169.07 - 169.78 brecciation (with gypsum)	1678	169.00	170.00	L	L
170 -			1679	170.00	171.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
171 -			1680	171.00	172.00	L	L
172 -			1681	172.00	173.00	L	L
173 -			1682	173.00	174.00	L	L
174 -			1683	174.00	175.00	L	L
175 -		175.69 - 195.99 matrix silicified porphyry with diss. pyrite, gypsum veinlets	1684	175.00	176.00	L	L
176 -			1685	176.00	177.00	L	L
177 -			1686	177.00	178.00	L	L
178 -		178.20 - 178.30 fault gouge and breccia with gypsum veinlets 30° to core axis	1687	178.00	178.50	L	L
179 -							
180 -		80.83 - 80.94 structure with strong silicification, pyrite and gypsum	1700	180.75	181.25	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
181 -							
182 -							
183 -		183.90 - 183.95 weak brecciation					
184 -							
185 -							
186 -							
187 -							
188 -							
189 -							
190 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
191 -							
192 -							
193 -							
194 -		194.72 - 194.91 much increased pyrite	1701	194.50	195.00	L	3.4
195 -		195.99 m END OF HOLE					
196 -							
197 -							
198 -							
199 -							
200 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: SILVER CREEK

LOCATION (N.T.S.) 94 E/ 6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 24

CORE SIZE: NQ

DATE STARTED: 18.07 1985
DATE COMPLETED: 20.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 20.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+00 SE 1 + 25 SW (Silver Creek Grid)

SURVEY CO-ORDINATES 6676.43 N 7919.26 E

ELEVATION AT COLLAR 1674.14 m

TOTAL LENGTH 227.38 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 65°
60.96 m	N 044 E	- 67°
120.70 m	N 044 E	- 67°
190.50 m	N 044 E	- 67°
223.72 m	N 044 E	- 67°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 3.15 boulders of Sustut sandstone and conglomerate 3.15 - 35.94 propylitic fsp porphyry, strong epidotization; pink fsp phenocrysts partly to completely altered to epidote; mm veinlets of epidote, mafic phenocrysts chloritizied and epidotizied, minor diss. pyrite mostly euhedral, nest of calcite, in parts vuggy/porous					
4 -		4.88 - 5.65 broken core and loss of core					
5 -							
6 -		6.50 - 8.80 MnOx along fractures					
7 -							
8 -							
9 -		9.45 - 14.02 irregular patches of dark purple colouring of the matrix due to hematitization					
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -							
16 -							
17 -							
18 -		18.53 - 18.96 strong magnetic fsp porphyry greenish black matrix with clay altered fsp phenocrysts, mafic minerals generally fresh					
19 -							
20 -		20.67 - 20.96 fragmental appearance of the crystal tuff; 1 to 2 % anhedral pyrite	1702	20.67	21.40	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -		21.00 - 21.40 vuggy; vugs partly filled with calcite 21.16 - 21.40 minor brecciation 21.96 - 22.06 minor brecciation with MnOx					
22 -							
23 -							
24 -							
25 -		25.40 start of fracturing filled with calcite and FeOx building up to a calcite-FeOx breccia between 25.83 and 26.04, orientation approximately 60° to core axis	1703	25.70	26.21	L	L
26 -		26.36 - 26.63 broken core					
27 -		27.65 calcite-epidote veinlet 25° to core axis					
28 -		28.50 - 29.90 slightly increased matrix silicification with approx. 1% pyrite	1704	28.50	29.00	L	L
29 -			1705	29.00	30.00	L	L
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -		33.70 - 34.65 irregular patches of hematitization					
34 -							
35 -		35.94 - 77.00 <u>weak matrix silicification</u> with increased content of diss. pyrite (mostly anhedral) vugs filled with calcite and quartz matrix silicification irregular and patchy, strong epidotization increasing with depth					
36 -							
37 -							
38 -							
39 -							
40 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -							
45 -		45.25 - 46.000	1706	45.25	46.00	L	L
46 -		46.61 - 46.75 calcite micro breccia in the matrix silicified crystal tuff ± diss. pyrite	1707	46.00	47.00	L	L
47 -							
48 -							
49 -							
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -							
53 -							
54 -							
55 -							
56 -		56.69 - 56.92 breccia with fault gouge, 0.1 mm euhedral pyrite crystals	1708	56.50	57.35	L	L
57 -							
58 -							
59 -		59.43 - 59.64 open vugs and vugs filled with calcite					
60 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -							
62 -		62.84 - 62.86 calcite micro breccia at 75° to core axis					
63 -							
64 -							
65 -		65.62 - 65.84 minor brecciation					
66 -							
67 -							
68 -							
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.04 - 71.08 very strong epidotization, vuggy					
72 -							
73 -							
74 -		74.82 - 76.46 vuggy; vugs filled with quartz crystals					
75 -							
76 -							
77 -		Approx. 77.00 - 128.60 decreasing matrix silicification and transition to a strong propylitic porphyritic crystal tuff very strong epidotization					
78 -							
79 -							
80 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -							
82 -							
83 -							
84 -							
85 -							
86 -							
87 -							
88 -							
89 -							
90 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -							
92 -							
93 -		93.27 tube mislatched, broken core for 20 cm					
94 -							
95 -							
96 -							
97 -							
98 -							
99 -							
100 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
124 -							
102 -							
103 -							
104 -		104.91 - 105.15 very strong epidotization					
105 -		105.53 - 105.76 stronger matrix silicification					
106 -							
107 -							
108 -							
109 -							
110 -		110.22 - 112.78 stronger matrix silicification					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -							
112 -							
113 -							
114 -							
115 -							
116 -							
117 -							
118 -							
119 -							
120 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -							
122 -		122.50 - 122.63 fault gouge and breccia	1966	122.00	123.00	L	L
123 -		123.14 - 123.26 fault gouge/breccia	1967	123.00	124.00	L	3.4
124 -							
125 -							
126 -							
127 -							
128 -		128.60 - 185.23 patchy, weak matrix silicification, patches of brownish matrix silicification in strong propylitic (chlorite, epidote) porphyry					
129 -							
130 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -							
132 -							
133 -							
134 -							
135 -							
136 -							
137 -							
138 -							
139 -							
140 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -							
142 -							
143 -							
144 -							
145 -		145.97 - 146.40 calcite/epidote structure to micro breccia ± parallel to core axis					
146 -							
147 -							
148 -							
149 -							
150 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -							
152 -							
153 -							
154 -		154.75 - 154.84 fault zone with fault gouge	1968	154.00	155.00	0.34	L
155 -							
156 -							
157 -							
158 -							
159 -							
160 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
161 -							
162 -							
163 -							
164 -							
165 -							
166 -							
167 -							
168 -							
169 -							
170 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
171 -							
172 -							
173 -							
174 -							
175 -							
176 -		176.01 nests with calcite and silica, ± pyrite					
177 -							
178 -							
179 -							
180 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
181 -							
182 -							
183 -							
184 -							
185 -		185.23 - 194.21 strong propylitic porphyrite crystal tuff; chloritization very intensive; mm - calcite veining, pink fsp phenocrysts in a dark green, chloritic matrix; mafic phenocrysts altered to chlorite and epidote; chlorite and epidote aggregates; epidote together with calcite on veinlets, mm silica veinlets, upper contact 35° to core axis approx. 1% diss. pyrite, mostly anhedral partly irregular, patchy matrix silicification at 186.60 cm epidote veinlet parallel to core axis					
186 -							
187 -							
188 -							
189 -							
190 -		190.00 - 191.46 matrix - silicified porphyry increased pyrite calcite-quartz epidote veining at 10 cm intervals	1969	190.00	191.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
191 -		191.46 - 191.52 fault gouge and breccia	1709	191.00	192.00	L	L
192 -			1710	192.00	193.00	L	L
193 -		193.42 - 193.85 silica epidote breccia 35° to core axis (± calcite)	1711	193.00	194.00	L	L
194 -		194.21 - 195.70 intensive silica-epidote (calcite) veining to breccia	1712	194.00	195.00	0.34	L
195 -		195.70 - 205.67 weak matrix silicified strongly propylitic porphyry with minor calcite-silica veining; very strong chloritization aggregates of chlorite and epidote, pink fsp phenocryst approx. 1% pyrite anhedral to euhedral partly brecciated.	1713	195.00	196.00	1.71	3.4
			1713Van	195.00	196.00	1.33	3.9
196 -			1714	196.00	197.00	L	3.4
197 -			1715	197.00	198.00	L	L
198 -			1716	198.00	199.00	L	L
199 -			1717	199.00	200.00	L	L
200 -			1718	200.00	201.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
201 -			1719	201.00	202.00	L	L
202 -			1720	202.00	203.00	L	L
203 -		203.45 - 203.54 calcite-chlorite breccia 37° to core axis, porphyry fragments strongly silicified	1721	203.00	204.00	L	L
204 -			1722	204.00	205.00	L	L
205 -		205.67 - 206.57 grey-green silica/epidote veining to stockwork, diss. pyrite mostly euhedral	1723	205.00	206.00	L	L
206 -		206.57 - 227.38 matrix silicified strong propylitic porphyry partly brecciated some grey-silica/ epidote veining, abundant chlorite, 1 - 2% diss. pyrite, aggregates of chlorite, orientation of veining 35° to core axis minor argillic alteration of fsp-phenocrysts matrix silicification associated with hematite staining of matrix	1724	206.00	207.00	L	L
207 -							
208 -			1725	207.00	208.00	L	L
209 -			1726	208.00	209.00	L	L
210 -			1727	209.00	210.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
211 -			1729	211.00	212.00	L	L
212 -			1730	212.00	213.00	L	L
213 -			1731	213.00	214.00	L	L
214 -			1732	214.00	215.00	L	L
215 -			1733	215.00	216.00	L	3.4
216 -			1734	216.00	217.00	L	L
217 -			1735	217.00	218.00	L	L
218 -			1736	218.00	219.00	L	L
219 -			1737	219.00	220.00	L	L
220 -			1738	220.00	221.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -		15.26 - 15.40 slightly increased matrix silicification around FeOx stained fractures					
16 -							
17 -							
18 -							
19 -		19.81 - 25.51 broken core, vuggy, vugs empty or filled with calcite, abundant MnOx on fractures					
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
221 -			1739	221.00	222.00	L	L
222 -			1740	222.00	223.00	L	L
223 -			1741	223.00	224.00	L	L
224 -			1742	224.00	225.00	L	L
225 -			1743	225.00	226.00	L	L
226 -			1744	226.00	227.00	L	L
227 -		227.38 m END OF HOLE					
228 -							
229 -							
230 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: SILVER CREEK
LOCATION (N.T.S.) 94 E/ 6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 25
CORE SIZE: NQ

DATE STARTED: 20.07 1985
DATE COMPLETED: 21.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 21.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L0+50 SE 1 + 25 SW (Silver Creek Grid)
TOTAL LENGTH 175.56 m
SURVEY CO-ORDINATES 6638.48 N 7954.91 E
ELEVATION AT COLLAR 1681.04 m
DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 55°
60.96 m	N 044 E	- 55°
121.92 m	N 044 E	- 58°
175.56 m	N 044 E	- 58°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 6.40 casing					
1 -							
2 -							
3 -							
4 -							
5 -							
6 -		6.40 - 6.70 Sustut sandstone, conglomerate, greywacke boulders 6.70 - 32.40 propylitic fsp-porphyritic crystal tuff with few fragments; partly epidote					
7 -		altered pink fsp phenocrysts and epidote/chlorite altered mafic phenocrysts in an aphanitic green matrix partly vuggy, vugs filled with calcite minor mm - calcite veining minor					
8 -		hematitization of mafic phenocrysts FeOx and MnOx coatings along fractures, weak clay alteration of fsp phenocrysts close to fractures weak matrix silicification and bleaching in some areas					
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -							
23 -							
24 -							
25 -							
26 -							
27 -		27.50 mm silica veinlets at 50° to core axis					
28 -							
29 -							
30 -		30.83 - 31.53 broken core and fault breccia with fault gouge					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -		31.75 - 31.90 weak silicification around mm silica veinlets					
32 -		32.40 - 40.07 same as 6.70 - 32.40 with increasing patches of relatively fresher porphyry; grey matrix with partly epidote altered fsp phenocrysts mafic phenocrysts altered to hematite					
33 -							
34 -							
35 -							
36 -							
37 -							
38 -							
39 -							
40 -		40.07 - 40.88 layer of purple tuff, 55° to core axis hematitization of mafic phenocrysts; fsp phenocrysts partly clay, partly epidote altered 40.88 - 47.46 propylitic porphyry, pink, partly epidote altered fsp phenocrysts in an aphanitic, green matrix with patches and layers of less altered, hematitized crystal tuff with reddish purple to grey matrix.					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -							
42 -							
43 -							
44 -							
45 -							
46 -							
47 -		47.46 - 71.78 strong propylitic porphyry, strong epidotization, very weak, irregular matrix silicification; vuggy, vugs partly filled with calcite increasing chloritization hematite stained, partly epidote altered fsp - phenocrysts					
48 -							
49 -							
50 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -							
52 -							
53 -							
54 -		54.86 - 55.08 strong matrix silicification, vugs filled with calcite, epidote, minor quartz ± diss. pyrite					
55 -		55.22 - 55.64 strong matrix silicification vugs filled with calcite, epidote, minor quartz ± diss. pyrite					
56 -		56.50 - 57.33 strong matrix silicification with abundant pyrite approximately 2%.					
57 -							
58 -							
59 -							
60 -		60.95 - 63.98 schlieren of dark grey- greenish silica					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1773	60.95	62.00	L	L
62 -							
63 -							
64 -							
65 -							
66 -							
67 -							
68 -							
69 -							
70 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.78 - 77.14 strong to very strong matrix silicification fine-grained diss. pyrite; partly brecciated; chlorite in breccia, dark grey-green coloured matrix, limonitic fractures and weak argillic alteration of fsp phenocrysts close to fractures; fsp phenocrysts in parts entirely altered to epidote					
72 -			1774	72.00	73.00	L	L
73 -			1775	73.00	74.00	L	L
74 -			1776	74.00	75.00	L	L
75 -			1777	75.00	76.00	L	L
76 -			1778	76.00	77.00	L	L
77 -		77.14 - 88.10 strong propylitic porphyry, with weak matrix silicification mm calcite veinlets and vugs filled with calcite, epidote, quartz (hexagonal outlines of quartz crystals) chlorite, irregular patches of greenish-grey silica at 70.73, 80.62					
78 -							
79 -							
80 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -							
82 -		82.93 - 83.63 stronger greyish-green matrix silicification as diffus network of greyish green silica					
83 -							
84 -		84.47 - 87.30 stronger greyish green matrix silicification as a diffus network of greyish green silica	1779	84.47	85.50	L	L
85 -			1780	85.50	86.36	L	L
86 -			1781	86.36	87.30	L	L
87 -							
88 -		88.10 - 128.78 propylitic porphyry, pink, partly epidotizied fsp phenocrysts; green, aphanitic matrix strong chloritization and epidotization					
89 -		89.30 - 89.60 calcite/silica veining to micro breccia with abundant epidote					
90 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -							
92 -							
93 -		93.25 - 96.00 patches of porphyry with reddish (hematitization) matrix					
94 -							
95 -							
96 -							
97 -							
98 -							
99 -							
100 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -							
102 -							
103 -							
104 -							
105 -		105.63 - 106.35 fresher, magnetic zone fsp-phenocrysts partly epidote altered, mafic phenocrysts hematite altered					
106 -							
107 -		107.60 - 128.78 weak, patchy matrix silicification					
108 -							
109 -							
110 -		110.89 - 111.00 ccm calcite-epidote, euhedral-quartz crystal band at 75° to core axis silification halo					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -		111.86 - 111.98 vuggy, vugs filled with epidote					
112 -		112.46 - 112.40 fault gouge and breccia at approx. 60° to core axis					
113 -							
114 -							
115 -							
116 -							
117 -							
118 -							
119 -							
120 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -							
122 -							
123 -							
124 -							
125 -							
126 -							
127 -							
128 -		128.78 - 129.42 pervasive (matrix) silicification with remnant porphyritic texture; dark grey silica with epidote minor calcite, pyrite euhedral and anhedral approx. 1%	1745	128.00	128.78	L	L
129 -		129.37 - 129.42 breccia and fault gouge at 55° to core axis, diss. pyrite less than 1%	1746	128.78	129.42	L	3.4
			1747	129.42	130.00	L	3.4
		129.42 - 131.05 mm stockwork of grey-green silica in partly silicified (matrix) porphyry with strong propylitic alteration (much increased chlorite and epidote)					
130 -			1748	130.00	131.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -		131.05 - 135.94 strong propylitic porphyry with minor silica (epidote) veining, matrix silicification	1749	131.00	132.00	L	L
132 -			1750	132.00	133.00	L	L
133 -			1751	133.00	134.00	L	3.4
134 -		134.51 - 134.57 epidote-silica veining to micro breccia	1752	134.00	135.00	L	3.4
135 -		135.94 - 136.39 silica veining + epidote, calcite to breccia in pervasive matrix silicified porphyry, diss. pyrite approx. 1%.	1753	135.00	135.94	L	L
			1754	135.94	136.39	L	3.4
136 -			1755	136.39	137.00	L	L
		136.39 - 140.87 strong propylitic (much increased chlorite, epidote) porphyry with minor calcite/silica veining, partly matrix silicified					
137 -			1756	137.00	138.00	L	L
		137.44 - 137.69 veining and micro breccia with epidote and calcite approx. 60° to core axis, minor silica					
138 -			1757	138.00	139.00	L	L
		138.70 - 139.30 strong matrix silicification, mm - stockwork of grey green silica					
139 -			1758	139.00	140.00	L	L
140 -		140.87 - 145.93 strong matrix silicified porphyry at 141.00 cm calcite-epidote veining to micro breccia	1759	140.00	141.00	2.40	3.4
			1759Van	140.00	141.00	1.88	5.8

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -		141.45 - 141.70 silica-epidote veining (25°) to micro breccia	1760	141.00	142.00	0.34	L
142 -			1761	142.00	143.00	L	L
143 -			1762	143.00	144.00	L	L
144 -			2025	144.00	145.00	L	L
145 -		145.93 - 150.90 mm to cm silica-calcite-epidote veining to micro breccia (60° to core axis), in matrix silicified, strongly chloritic porphyry, diss. pyrite, less than 1% mostly euhedral	2026	145.00	146.00	L	L
146 -			1763	146.00	147.00	L	L
147 -			1764	147.00	148.00	L	L
148 -		148.31 fault gouge and fault breccia about 5 cm wide, 30° to core axis	1765	148.00	149.00	0.34	L
149 -			1766	149.00	150.00	0.34	L
150 -		150.90 - 161.20 strong propylitic porphyry with pink, partly epidote altered fsp-phenocrysts strong chloritization; irregular patches of matrix - silicification	1767	150.00	151.00	0.34	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -		151.55 - 151.68 calcite-epidote-silica micro breccia abundant calcite in matrix and vugs filled with calcite	1768	151.00	152.00	L	L
152 -							
153 -							
154 -							
155 -							
156 -							
157 -							
158 -							
159 -							
160 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
161 -		161.20 - 175.56 weak matrix silicification with (minor calcite and quartz veining) silicification increasing to depth, increasing amount of lapilli					
162 -							
163 -			1769	163.00	164.00	L	L
164 -		164.85 - 165.13 brecciation and fault gouge, strong siliceous and chloritic, much increased pyrite	1770	164.00	165.00	L	3.4
165 -			1771	165.00	166.00	0.34	3.4
			1771B	165.13	165.28	L	6.9
166 -			1772	166.00	167.00	L	L
167 -							
168 -							
169 -							
170 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
171 -							
172 -							
173 -							
174 -							
175 -		175.56 END OF HOLE					
176 -							
177 -							
178 -							
179 -							
180 -							

ST. JOE CANADA INC. **DIAMOND DRILL LOG**

PROJECT: SILVER POND

ZONE: WEST ZONE

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 26

CORE SIZE: NQ

DATE STARTED: 21.07 1985
DATE COMPLETED: 23.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 23.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L 7 + 75 NW at 2 + 35 SW (Silver Creek Grid)

TOTAL LENGTH: 132.59 m

SURVEY CO-ORDINATES: 7387.73 N 7550.14 E

ELEVATION AT COLLAR: 1693.05 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
60.96 m	N 044 E	- 47°
132.59 m	N 044 E	- 47°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.66 casing					
1 -							
2 -							
3 -		Sustut conglomerate/greywacke boulders 3.66 - 3.86 broken core; fragments of strong silica-argillic altered porphyry highly fractured, with abundant Mn and Fe-Ox along fractures; around fractures increased argillic alteration; pink fsp phenocrysts-partly clay altered, and chlorite/					
4 -		hematite altered mafic phenocrysts in a black-greenish matrix with abundant calcite very minor disseminated pyrite	2052	4.00	5.00	L	L
5 -		5.00 - 13.00 increase in intensity of matrix silicification	2053	5.00	6.00	L	L
6 -			2054	6.00	7.00	L	L
7 -			2055	7.00	8.00	L	L
8 -			2056	8.00	9.00	L	L
9 -			2057	9.00	10.00	L	L
10 -			2058	10.00	11.00	0.34	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -			2059	11.00	12.00	L	L
12 -			2060	12.00	13.00	L	L
13 -		13.00 increase in intensity of silica-argillic alteration with increasing pyrite content, mm fine dark silica veinlets	2061	13.00	14.00	L	L
14 -		14.70 - 16.80 silica-argillic alteration around FeOx stained fractures	2062	14.00	15.00	L	L
15 -			2063	15.00	16.00	L	L
16 -			2064	16.00	17.00	L	L
17 -		17.90 - 19.81 no core	2065	17.00	17.90	L	L
18 -							
19 -		19.81 - 25.00 silica-argillic alteration with remnant porphyritic texture; highly fractured with FeOx coatings along fractures, fine pyrite in matrix and pyrite on fracture planes; minor quartz veining, vuggy and mm grey silica veinlets	1790	19.81	20.62	0.34	L
20 -		broken core (approx. 1.30 m between 20.62 - 22.86)	1809	20.62	22.86	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -			1810	22.86	23.47	L	L
23 -			1791	23.47	24.00	0.69	3.4
24 -			1792	24.00	25.00	L	L
25 -		25.00 - 33.50 weak silica-argillic alteration, weak matrix silicification; porphyritic texture with light coloured to pink fsp phenocrysts; highly fractured with FeOx coatings along fractures; dark green to grey matrix, abundant pyrite, 1 to 2% disseminated in matrix and on fracture planes; chloritized remnant of mafic phenocrysts	2066	25.00	26.00	L	L
26 -			2067	26.00	27.00	L	L
27 -			2068	27.00	28.00	L	3.4
28 -			2069	28.00	29.00	L	L
29 -			2070	29.00	30.00	L	L
30 -			2071	30.00	31.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -			2072	31.00	32.00	L	L
32 -		32.00 - 33.00 no core					
33 -		33.50 - 36.80 stronger silica (argillic) alteration, light grey coloured; abundant diss. pyrite 2 to 3%, very fine, mm veinlets of dark grey silica; some calcite, mafic phenos completely altered with crystal-outlines preserved, fsp phenocrysts light coloured, some argillic alteration	2073	33.00	34.00	L	L
34 -			1793	34.00	35.00	L	L
35 -			2074	35.00	36.00	L	L
36 -		36.80 - 38.00 transition zone; pyrite along fractures decreasing silica (argillic) alteration.	2075	36.00	37.00	L	L
37 -			2076	37.00	38.00	L	L
38 -		38.00 - 40.11 strong propylitic (chlorite and epidote) altered porphyry with very weak matrix silicification; intensive salmon red coloured fsp phenocrysts, completely coloured or only outer rim; minor diss. pyrite outlining decomposed mafic phenocrysts, dark green matrix.	1782	38.00	39.00	L	L
39 -			1783	39.00	40.00	L	L
40 -		40.11 - 42.05 strong to pervasive (41.34 - 41.50) silicification with remnant porphyritic texture; dark grey to dark grey greenish to black coloured, diss. pyrite, partly and together with chlorite outlining decomposed mafic (hornblende) phenocrysts and pyrite on fracture planes 2 -3%	1784	40.00	41.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		fsp phenocrysts light greenish coloured, partly altered to montmorillonite; fractured with FeOx coatings; minor mm quartz/silica veining, partly vuggy with open space,	1785	41.00	41.50	L	3.4
41 -		quartz crystal growth and very fine, less than mm dark grey to black silica veinlets	1786	41.50	42.00	L	3.4
42 -		42.05 - 52.00 strong matrix silicified,propylitic (chlorite, epidote) porphyry with salmon-red coloured fsp phenocrysts in dark green coloured matrix, minor diss. pyrite; pyrite and FeOx along fractures, epidote rimed quartz/silica veinlets more intense close to the contact with the previous unit. Orientation of quartz/silica veining 25°, 40°, 30°, 40°	1787	42.00	43.00	L	3.4
43 -			1788	43.00	44.00	L	L
44 -			1789	44.00	45.00	L	L
45 -		45.41 - 46.60 slightly increased alteration and quartz - silica veining	2077	45.00	46.00	L	L
46 -		46.60 decreasing silicification to weak matrix silicification	2078	46.00	47.00	L	L
47 -		47.74 - 47.89 light grey network of mm silica veinlets and cm silica veining with micro-breccia at 44° to core axis	2079	47.00	48.00	L	L
48 -			2080	48.00	49.00	L	L
49 -			1811	49.00	50.00	L	L
50 -		approx. 50.00 increase of silicification	1812	50.00	51.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -			1813	51.00	52.00	L	L
52 -		52.00 - 52.46 dark grey coloured strong silicification with approx. 2% pyrite, remanant porphyritic texture	1794	52.00	53.00	22.97	17.1
			1794RR	52.00	53.00	17.49	13.7
			1794RR	52.00	53.00	18.17	13.7
			1794Van	52.00	53.00	13.80	15.6
53 -		52.46 - 52.98 pervasive silicification, porphyritic texture almost completely obliterated totally silicified phenocrysts as quartz eyes; white, yellowish white, blackish grey silica; three phases of silica; 1) pervasive/matrix silicification 2) mm dark silica veinlets 3) mm light grey quartz veinlets; 2-3% pyrite, mostly anhedral in dark grey to black silica	1795	53.00	54.00	2.40	3.4
			1795Van	53.00	54.00	2.33	4.2
54 -		52.98 - 59.20 strong (matrix) silicified propylitic (chlorite/epidote) porphyry; salmon-red fsp phenocrysts in dark green matrix, single phase quartz veining, vuggy, with calcite and clay mineral or barite, 2 - 3% pyrite, diss. and along fractures	1796	54.00	55.00	L	3.4
55 -		54.70 to 54.95 weak stockwork	1797	55.00	56.00	L	3.4
56 -		56.07 to 56.25 micro breccia with epidote	1798	56.00	57.00	L	L
57 -		57.02 - 57.10 quartz - amethyst - barite - calcite nests along a dark coloured silica veinlet at 20° to core axis and intersection with fractures	1799	57.00	58.00	L	6.9
58 -			1800	58.00	59.00	L	3.4
59 -		59.20 - 61.30 quartz stockwork to breccia; intensive light grey quartz stockwork; at least two stages of silica; vugs filled with calcite and montmorillonite (?) pyrite in matrix silicified porphyry fragments and in quartz, specks of galena in quartz	1801	59.00	60.00	L	6.9
60 -			1802	60.00	61.00	0.69	24.0

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.30 - 64.31 propylitic porphyry with patches of silicification; red, partly argillic altered fsp phenocrysts in dark green matrix; some quartz veining partly weakly brecciated, fractured, FeOx + MnOx coatings, minor pyrite	1803	61.00	62.00	0.34	6.9
62 -			1814	62.00	63.00	0.34	13.7
63 -			1815	63.00	64.00	L	3.4
64 -		64.31 - 71.34 strong silicified propylitic porphyry; red, partly argillic altered fsp phenocrysts in dark grey matrix; minor quartz and dark silica veining, less than 1% pyrite	1804	64.00	65.00	1.37	6.9
			1804Van	64.00	65.00	0.59	9.0
65 -			1816	65.00	66.00	L	L
66 -			2081	66.00	67.00	L	L
67 -			2082	67.00	68.00	L	L
68 -			2083	68.00	69.00	L	L
69 -			2084	69.00	70.50	L	L
70 -			1817	70.50	71.34	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.34 - 73.00 silica-barite-calcite stockwork to breccia light to dark grey quartz with sulphides approx. 2%: pyrite, epy, galena much greater than two silica phases; diss. pyrite in 1-2% propylitic, weakly argillic and weakly siliceous altered wallrock fragments upper contact 40° to core axis	1805	71.34	72.00	2.40	10.3
			1805Van	71.34	72.00	2.40	11.7
72 -			1806	72.0	73.0	L	17.1
73 -		73.00 - 74.15 strong silicified propylitic porphyry quartz veining, approx. 1%, diss. pyrite	1818	73.00	74.15	L	L
74 -		74.15 - 75.85 intensive, light grey, vuggy quartz veining to stockwork micro breccia and mm dark silica veinlets (most intensive veining 74.55 - 74.75 in silicified propylitic porphyry, pink fsp-phenocrysts, chlorite/epidote alteration, approx. 1% diss. pyrite, minor barite	1807	74.15	75.04	0.69	L
75 -		75.85 - 85.45 silicified propylitic prophyry; strong epidotization intercalations of fine grained layers of epidote and chlorite; quartz (epidote) veining in approx. 50 cm intervals; orientation 40°, 45°, 45°, 40° to about 80.00	1808	75.04	76.00	L	L
76 -			2178	76.00	77.73	0.34	3.4
77 -		77.77 - 77.87 quartz veining to breccia; much increased epidote	1819	77.73	78.12	L	L
78 -			2179	78.12	79.00	L	L
79 -			2180	79.00	80.00	L	L
80 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			2181	80.00	81.00	L	L
82 -			2182	81.00	82.00	L	L
83 -			2183	82.00	83.00	L	L
84 -			2184	83.00	84.00	L	L
85 -		85.45 - 88.44 very strong silicified propylitic porphyry fsp phenocrysts partly to completely argillic altered; strong epidote/chlorite alteration mm epidote veinlets; silica veining to stockwork dark grey mm fine silica veinlets; at least two stages of silica;	2185	84.00	85.00	L	L
86 -		calcite, barite and minor amethyst in vein centre, approx. 2% diss. pyrite	2186	85.00	86.00	L	L
87 -			1820	86.00	87.00	L	L
88 -		88.44 - 90.50 strong silicified propylitic porphyry some quartz veining	1821	87.00	88.00	0.34	L
89 -			1822	88.00	89.00	L	L
90 -		90.50 - 123.50 transition (decreasing silicification) to weak silicified propylitic porphyry (crystal tuff with some lithic fragments) epidote/chlorite alteration of mafic minerals fsp phenocrysts (up to 1.00 cm ∅) hematite stained or clay altered; areas completely altered to epidote and calcite (chlorite), calcite and epidote veinlets	2187	89.00	90.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -			2188	90.00	91.00	L	L
92 -			2189	91.00	92.00	L	L
93 -		93.00 decreasing silicification and propylitic alteration with depth	2190	92.00	93.00	0.34	L
94 -			2191	93.00	94.00	L	L
95 -			2192	94.00	95.00	L	L
96 -			2193	95.00	96.00	L	L
97 -			2194	96.00	97.00	L	L
98 -			2195	97.00	98.00	L	L
99 -			2196	98.00	99.00	L	L
100 -			2197	99.00	100.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -			2198	100.00	101.00	L	L
102 -			2199	101.00	102.00	L	L
103 -		103.91 - 104.19 strongly <u>silicified porphyry</u>, dark grey to black with approx. 2% pyrite; FeOx and MnOx coatings, quartz veining	2200	102.00	103.91	L	L
104 -			1823	103.91	104.19	L	L
105 -			2201	104.19	105.00	L	L
106 -			2202	105.00	106.00	L	L
107 -			2203	106.00	107.00	L	L
108 -			2204	107.00	108.00	L	L
109 -			2205	108.00	109.00	L	L
110 -			2206	109.00	110.00	L	L
			2207	110.00	111.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -			2208	111.00	112.00	L	L
112 -			2209	112.00	113.00	L	L
113 -			2210	113.00	114.00	L	L
114 -			2211	114.00	115.00	L	L
115 -			2212	115.00	116.00	L	L
116 -			2213	116.00	117.00	L	L
117 -			2214	117.00	118.00	L	L
118 -			2215	118.00	119.00	L	L
119 -			2216	119.00	120.00	L	L
120 -			2217	120.00	121.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -			2218	121.00	122.00	L	L
122 -			2219	122.00	123.00	L	L
123 -		123.50 - 132.59 grey-purple tuff; hematitization, minor propylitic alteration	2220	123.00	124.00	L	L
124 -			2221	124.00	125.00	L	L
125 -			2222	125.00	126.00	L	L
126 -			2223	126.00	127.00	L	L
127 -			2224	127.00	128.00	L	L
128 -			2225	128.00	129.00	L	L
129 -			2226	129.00	130.00	L	L
130 -			2227	130.00	131.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -			2228	131.00	132.00	L	L
132 -		132.59 m END OF HOLE	2229	132.00	133.00	L	L
133 -							
134 -							
135 -							
136 -							
137 -							
138 -							
139 -							
140 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: WEST ZONE

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 27

CORE SIZE: NQ

DATE STARTED: 24.07 1985
DATE COMPLETED: 24.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 25.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES L7 + 25 NW at 2 + 35 SW (Silver Creek Grid)

TOTAL LENGTH 119.79 m

SURVEY CO-ORDINATES 7351.39 N 7583.96 E

ELEVATION AT COLLAR 1691.78 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
60.96 m	N 044 E	- 46°
119.79 m	N 044 E	- 46°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.05 casing					
1 -							
2 -							
3 -		3.05 - 3.35 broken core; fragments of silicified propylitic porphyry	2139	3.00	4.00	L	L
4 -		3.35 - strong (silica) - argillic alteration highly fractured with FeOX, MnOx along fractures 1-2% porphyritic texture with pink fsp phenocrysts outlines of completely altered mafic phenocrysts preserved partly brecciated	2140	4.00	5.00	L	L
5 -			2141	5.00	6.00	L	L
6 -			1824	6.00	7.00	L	L
7 -			2142	7.00	8.00	L	L
8 -			1825	8.00	9.00	L	L
9 -			2143	9.00	10.00	L	L
10 -			2144	10.00	11.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -			2145	11.00	12.00	L	L
12 -		12.27 - 46.00 grading into propylitic - argillic altered porphyry with dark green, chloritic to grey matrix approx. 2% pyrite; small zones of stronger argillic alteration at fractures, brecciation, minor mm quartz veining minor diss. pyrite and pyrite along fractures)	2146	12.00	13.00	L	L
13 -			2147	13.00	14.00	L	L
14 -			2148	14.00	15.00	L	L
15 -			2149	15.00	16.00	L	L
16 -			2150	16.00	17.00	L	L
17 -			2151	17.00	18.00	L	L
18 -		18.00 - 18.70 strong argillic alteration	2152	18.00	19.00	L	L
19 -			2153	19.00	20.00	L	L
20 -			2154	20.00	21.00	0.34	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			2155	21.00	22.00	L	L
22 -			2156	22.00	23.00	L	L
23 -			2157	23.00	24.00	L	L
24 -			2158	24.00	25.00	L	L
25 -			1826	25.00	26.00	L	L
26 -			2159	26.00	27.00	L	L
27 -			2160	27.00	28.00	L	L
28 -			2161	28.00	29.00	L	L
29 -			2162	29.00	30.00	L	L
30 -			2163	30.00	31.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -			2164	31.00	32.00	L	L
32 -			2165	32.00	33.00	L	L
33 -			2166	33.00	34.00	L	L
34 -			2167	34.00	35.00	L	L
35 -			2168	35.00	36.00	L	L
36 -			2169	36.00	37.00	L	L
37 -			2170	37.00	38.00	L	L
38 -			2171	38.00	39.00	L	L
39 -			2172	39.00	40.00	L	L
40 -			2173	40.00	41.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -			2174	41.00	42.00	L	L
42 -			2175	42.00	43.00	L	L
43 -			2176	43.00	44.00	L	L
44 -		44.10 - 44.20 minor fault; fault gouge and breccia	2177	44.00	45.00	L	L
45 -			1870	45.00	46.00	L	3.4
46 -		46.00 - 61.40 increasing siliceous alteration, increasing pyrite content, <u>silicified propylitic porphyry</u> with minor vuggy quartz veining; abundant diss. pyrite and pyrite along fractures approx. 3%, partly brecciated	1827	46.00	47.00	1.03	44.6
			1827Van	46.00	47.00	0.79	51.9
47 -			1871	47.00	48.00	L	6.9
48 -			1872	48.00	49.00	L	L
49 -			1873	49.00	50.00	L	L
50 -			1874	50.00	50.50	L	L
			1828	50.50	51.50	L	3.4

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -			1829	51.50	52.50	L	3.4
52 -			1973	52.50	53.00	L	L
53 -			1974	53.00	54.00	L	L
54 -			1975	54.00	55.00	0.34	L
55 -		55.86 - 56.20 approx. 40° to core axis, very strong light to dark grey coloured silica and veining with about approx. 1% diss. pyrite	1976	55.00	55.86	L	3.4
			1830	55.86	56.20	L	3.4
56 -			1977	56.20	57.00	L	3.4
57 -			1978	57.00	58.00	L	3.4
58 -		58.56 - 58.62 silica-breccia; silicified porphyry fragments in grey silica matrix abundant sulphides 3 - 4% (pyrite, galena) hanging wall contact 60°, footwall contact 40° to c.a.	1979	58.00	58.45	L	3.4
			1831	58.45	58.65	2.74	267.2
			1831Van	58.45	58.65	5.50	273.0
59 -			1980	58.65	59.00	L	3.4
			1981	59.00	60.00	L	3.4
60 -			1982	60.00	61.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.40 - 64.28 strong silicification with intensive quartz veining to stockwork/breccia	1832	61.00	62.00	L	L
62 -			1833	62.00	63.00	L	3.4
63 -		63.11 - 63.28 massive quartz breccia with epidote and minor sulphides	1834	63.00	64.00	L	L
64 -		64.28 - 68.14 weak silicified propylitic porphyry, with some quartz (calcite) veining; pink fsp phenocrysts partly clay altered, strong chloritization; less than 1% diss. pyrite	1835	64.00	64.50	L	L
			1983	64.50	65.00	L	3.4
65 -			1984	65.00	66.00	12.69	6.9
66 -			1985	66.00	67.00	0.34	L
67 -			1986	67.00	68.14	L	L
68 -		68.14 - 71.14 silica - epidote- calcite breccia light grey, vuggy quartz, dark grey greater than mm silica veinlets in silicified, strongly propylitic porphyry	1836	68.14	69.00	2.40	3.4
			1836Van	68.14	69.00	1.92	6.4
69 -							
70 -			1837	69.00	70.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.14 propylitic porphyry, weakly silicified to weakly chloritized, pink - reddish fsp phenocrysts silicified in dark green, chloritic ground mass, minor diss. pyrite FeOx coatings along fractures minor argillic alteration around small fractures, fsp phenocrysts partly argillic altered	2035	71.00	72.00	L	L
72 -			2036	72.00	73.00	L	L
73 -			2037	73.00	74.00	L	L
74 -			2038	74.00	75.00	L	L
75 -			1839	75.00	76.30	L	L
76 -		76.30 - 76.80 (silica) argillic altered zone, dark grey, around fault gouge/breccia, bands of sulphides (pyrite, galena)	1840	76.30	76.80	L	6.9
77 -			2039	76.80	78.00	L	L
78 -			2040	78.00	79.00	L	L
79 -			2041	79.00	80.00	L	3.4
80 -			2042	80.00	81.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			2043	81.00	82.00	L	L
82 -			2044	82.00	83.00	L	L
83 -			2045	83.00	84.00	L	L
84 -			2046	84.00	85.00	L	L
85 -			2047	85.00	86.00	L	L
86 -		86.87 - 87.00 iron oxide rich fault gouge	2048	86.00	87.00	L	L
87 -			2049	87.00	88.00	L	L
88 -			2050	88.00	89.00	L	L
89 -			2051	89.00	90.00	L	L
90 -			2109	90.00	91.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -			2110	91.00	92.00	L	L
92 -			2111	92.00	93.00	L	L
93 -			2112	93.00	94.00	L	L
94 -		94.18 - 94.38 zone of stronger argillic alteration	2113	94.00	95.00	L	L
95 -			2114	95.00	96.00	L	L
96 -			2115	96.00	97.00	L	L
97 -			2116	97.00	98.00	L	L
98 -			2117	98.00	99.00	L	L
99 -			2118	99.00	100.00	L	L
100 -		epidote on fractures	2119	100.00	101.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -			2120	101.00	102.00	L	L
102 -			2121	102.00	103.00	L	L
103 -			2122	103.00	104.00	L	L
104 -			2123	104.00	105.00	L	L
105 -			2124	105.00	106.00	L	L
106 -			2125	106.00	107.00	L	L
107 -		grading into hematitic purple grey, porphyritic crystal tuff	2126	107.00	108.00	L	L
108 -			2127	108.00	109.00	L	L
109 -			2128	109.00	110.00	L	L
110 -			2129	110.00	111.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -			2130	111.00	111.00	L	L
112 -			2131	111.00	112.00	L	L
113 -			2132	112.00	113.00	L	L
114 -			2133	113.00	114.00	L	L
115 -			2134	114.00	115.00	L	L
116 -			2135	115.00	116.00	L	L
117 -			2136	116.00	117.00	L	L
118 -			2137	117.00	118.00	L	L
119 -			2138	118.00	119.00	L	L
		119.79 END OF HOLE					
120 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND

ZONE: WEST ZONE

LOCATION (N.T.S.) 94 E/6E

CLAIM: SILVER CREEK

MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 28

CORE SIZE: NQ

DATE STARTED: 25.07 1985
DATE COMPLETED: 26.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 26.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L8 + 25 NW at 2 + 48 SW (Silver Creek Grid)

TOTAL LENGTH: 119.48 m

SURVEY CO-ORDINATES: 7416.00 N 7503.49E

ELEVATION AT COLLAR: 1684.67 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
60.96 m	N 044 E	- 46°
119.48 m	N 044 E	- 46°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.96 casing					
1 -							
2 -							
3 -		3.96 - 5.05 (silica) argillic altered porphyry with remnant texture; reddish hematite stained fsp phenocrysts in light yellowish matrix; fractured with FeOx					
4 -							
5 -		5.05 - 15.80 propylitic porphyry, fractured, with abundant FeOx along fracture planes; diss. pyrite less than 1%, hematite stained fsp phenocrysts and epidote altered phenocrysts in a black green, chloritic matrix					
6 -		slight silicification and minor silica veining between 6.50 and 7.20 , 13.20 and 13.85	1841	6.00	7.00	L	L
7 -							
8 -							
9 -							
10 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -							
12 -							
13 -							
14 -							
15 -		15.80 - 17.40 propylitic porphyry, weak argillic altered dark grey, pyritic matrix; fractured with abundant, FeOx along fracture planes; up to 2% pyrite, diss. and along fractures; mafic phenocrysts altered to epidote/chlorite/pyrite; fsp phenocrysts partly argillic altered					
16 -							
17 -		17.40 - 32.72 propylitic porphyry, partly weak argillic altered, highly fractured with FeOx along fractures; greater MnOx; stronger argillic alteration around intensive fracturing diss. pyrite less than 1%					
18 -		epidote altered phenocrysts in dark green matrix to grey green matrix (crystal tuff with some lithic fragments)					
19 -							
20 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -							
22 -		22.63 cm silica veinlets 50° to core axis with halo of more silicified propylitic porphyry approx. 22.50 - 28.50 silicified propylitic porphyry	2085	22.00	23.00	L	L
23 -			2086	23.00	24.00	L	L
24 -			2087	24.00	25.00	L	L
25 -			2088	25.00	26.00	L	L
26 -							
27 -							
28 -							
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -		32.72 - 35.36 transition zone to argillic alteration					
33 -							
34 -							
35 -		35.36 - 40.38 argillic altered porphyry limonitic stained clay altered crystal tuff with remnant porphyritic texture; highly fractured with abundant FeOx and MnOx along fracture planes					
36 -		intercalated zones of weak, argillic propylitic alteration					
37 -							
38 -							
39 -			1861	39.92	41.00	L	L
40 -		40.38 - 43.60 pyrite rich (3 - 4%) argillic alteration with increasing silicification, light grey green to brownish, compact porphyry with remnant texture, mafic phenocrysts (hornblende) replaced by pyrite strong limonitization along fractures minor silica veining					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -			1862	41.00	42.00	L	L
42 -			1863	42.00	43.00	L	L
43 -		43.60 - 67.76 quartz-fsp-porphyry pink, strong siliceous: dense, aphanitic matrix; approx. 25% phenocrysts rounded to hypidiomorphic quartz phenocrysts occasionally embayed fsp phenocrysts, hematite stained to partly clay altered (montmorillonite, dikite)	1864	43.00	44.00	L	L
44 -		mafic phenocrysts (approx. 1% of phenocrysts) altered to chlorite, along fractures abundant MnOx and mafic minerals oxidized to limonite euhedral pyrite crystals approx. 1% at footwall contact (i.e. at 43.60)	1865	44.00	45.00	L	L
45 -		foliation for about 20 cm with an orientation to 35° to core axis close to contact 'leached', light pink colour with gradual change to a brownish pink colour, true width 13.86 meters	1866	45.00	46.00	L	L
46 -		weak carbonatization	1867	46.00	47.00	L	L
47 -			1868	47.00	48.00	L	L
48 -			1869	48.00	49.00	L	L
49 -			1842	49.00	50.00	L	L
50 -			1843	50.00	51.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -		51.60 - 51.98 mm fine network of grey to dark (52.32 - 52.39) grey and black silica (two stages of silica) with minor sulphides (pyrite, specks of cpy, galena)	1844	51.00	52.00	L	L
52 -			1845	52.00	53.00	L	L
53 -			1846	53.00	54.00	L	L
54 -		54.65 3 mm quartz veinlet, 40° to core axis, with minor pyrite, cpy, galena	1847	54.00	55.00	L	L
55 -			1848	55.00	56.00	L	L
56 -			1849	56.00	57.00	L	L
57 -		57.50 fragment (xenolith) of propylitic porphyry	1850	57.00	58.00	L	L
58 -			1851	58.00	59.00	L	L
59 -			1852	59.00	60.00	L	L
60 -			1853	60.00	61.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -			1854	61.00	62.00	L	L
62 -		62.00 - 66.00 fine dark silica veining to black to micro breccia, minor sulphides (pyrite), abundant MnOx; veinlets partly vuggy	1855	62.00	63.00	0.34	3.4
63 -			1856	63.00	64.00	L	L
64 -			1857	64.00	65.00	L	L
65 -			1858	65.00	66.00	L	L
66 -			1859	66.00	67.00	L	L
67 -		67.00 - 67.76 contact zone; very strong siliceous black colour, minor silica veining	1860	67.00	67.54	L	L
		67.76 - 71.70 very strong siliceous propylitic porphyry, reddish pink fsp phenocrysts in dark green matrix, with up to 2% pyrite; minor silica veining with calcite in parts, intensive hematite staining of phenocrysts and matrix	1875	67.54	68.00	L	L
68 -			1876	68.00	69.00	L	L
69 -		less siliceous	1877	69.00	70.00	L	L
70 -			2089	70.00	71.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -		71.70 - 85.00 siliceous propylitic porphyry reddish pink fsp phenocrysts in dark green matrix some mm epidote (- silica) veining, MnOx on fractures, mafic phenocrysts altered to chlorite/epidote ± calcite in matrix	2090	71.00	72.00	L	L
72 -			2091	72.00	73.00	L	L
73 -			2092	73.00	74.00	L	L
74 -			2093	74.00	75.00	L	3.4
75 -			2094	75.00	76.00	L	3.4
76 -			2095	76.00	77.00	L	L
77 -		77.72 - 78.45 fine network of grey to grey green silica, epidote and minor calcite in siliceous propylitic porphyry; minor diss. pyrite, orientation 50° to core axis	2096	77.00	77.72	L	L
78 -			2097	78.45	79.00	L	L
79 -			2098	79.00	80.00	L	L
80 -			2099	80.00	81.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			2100	81.00	82.00	L	3.4
82 -			2101	82.00	83.00	L	L
83 -		83.95 - 84.00 grey to dark grey silica veinlet with pyrite, galena cpy., orientation 40° to core axis	1914	83.00	83.95	L	L
			1879	83.95	84.00	0.69	17.1
84 -			1915	84.00	85.00	L	L
85 -		85.00 - 87.00 increased silicification of propylitic andesite intensive veining of dark silica, epidote (chlorite) calcite, minor brecciation MnOx	1916	85.00	85.50	L	6.9
			1880	85.50	86.46	14.06	24.0
			1880Van	85.50	86.46	11.00	32.0
		85.56 - 85.80 quartz/silica stockwork	1917	85.50	85.80	1.03	17.1
			1917Van	85.50	85.80	1.19	19.4
			1918	85.80	86.12	0.69	3.4
			1919	86.12	86.46	2.74	24.0
			1919Van	86.12	86.46	2.66	29.0
86 -		86.46 - 87.00 silica-chlorite (epidote) calcite breccia mm silica (dark) veinlets approx. 1% pyrite	1881	86.46	87.00	0.34	27.4
			1920	86.46	87.00	0.34	20.6
87 -		87.00 - 87.98 strong silicification with dark silica/epidote/chlorite/pyrite/cpy/galena veinlets calcite	1882	87.00	87.98	L	3.4
		87.98 - 88.44 intensive silica veining to stockwork in strongly silicified, propylitic porphyry;	1921	87.00	87.42	1.03	10.3
		grey to dark grey and greenish grey silica; minor calcite in vein center	1921Van	87.00	87.42	0.79	12.5
			1922	87.42	87.98	L	3.4
88 -		88.44 - 95.08 decreasing silicification of propylitic porphyry minor dark grey silica veining	1883	87.98	88.44	L	L
			1884	88.44	89.50	L	L
89 -			2102	89.50	90.00	L	L
90 -			2103	90.00	91.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -			2104	91.00	92.00	L	L
92 -			2105	92.00	93.00	L	L
93 -		93.00 increasing silicification and veining 93.38 - 94.22 broken core and loss of core	1885	93.00	94.00	L	3.4
94 -			1886	94.00	95.08	L	L
95 -		95.08 - 95.64 barite; open space quartz crystal growth, soft green clay mineral in matrix between silicified fragments, increased phases of silica; MnOx silica breccia light, brownish yellow and chalcedony like dark grey silica, 1%	1887	95.08	95.64	0.69	10.3
96 -		3% pyrite, mm fine veinlets of dark silica	1888	95.64	96.40	L	L
		95.64 - 96.40 intensive silica/epidote veining to stockwork	1889	96.40	97.00	L	L
		96.40 - 100.28 strongly silicified propylitic porphyry some silica-epidote-calcite veining to 98.22;					
97 -		small silica breccia 98.16 - 98.22 slightly decreased silicification from 98.35 to 99.80	1890	97.00	98.00	L	L
98 -			1891	98.00	99.00	L	L
99 -			1892	99.00	100.00	L	L
100 -		100.28 - 101.00 increasing quartz/silica/epidote veining 40° to core axis, second, dark grey silica phase in light coloured quartz	1893	100.00	101.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -		101.00 - 101.90 silica-sulphide breccia; dark grey silica veinlets to breccia in dark green, strongly silicified host with remnant porphyritic texture	1894	101.00	101.90	L	L
		101.90 - 119.48 moderately to weakly silicified propylitic porphyry; gradually decreasing silicification	2106	101.90	103.00	L	L
102 -		few crystals of (secondary) biotite, up to 5% pyrite (no other sulphides observed), minor barite	2107	103.00	104.0	L	L
		at least two phases of silica; sections with up to 90% silica; clay mineral (?)					
103 -							
104 -							
105 -							
106 -							
107 -							
108 -							
109 -		109.85 - 110.30 broken core and fault zone with fault gouge	2108	109.50	110.50	L	L
110 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -							
112 -							
113 -							
114 -							
115 -							
116 -							
117 -							
118 -							
119 -		119.48 m END OF HOLE					
120 -							

ST. JOE CANADA INC. DIAMOND DRILL LOG

PROJECT: SILVER POND
ZONE: WEST ZONE
LOCATION (N.T.S.) 94 E/6E
CLAIM: SILVER CREEK
MINING DIVISION: OMINECA

HOLE NO. DDH 85 - 29
CORE SIZE: NQ

DATE STARTED: 27.07 1985
DATE COMPLETED: 29.07 1985
LOGGED BY: Andreas H. Vogt
DATE: 28.07 1985

SURVEY INFORMATION

GRID CO-ORDINATES: L 8 + 50 NW at 2 + 75 SW (Silver Creek Grid)
TOTAL LENGTH: 180.75 m

SURVEY CO-ORDINATES: 7416.49 N 7473.35 E

ELEVATION AT COLLAR: 1669.38 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	N 044 E	- 45°
60.96 m	N 044 E	- 45°
121.92 m	N 044 E	- 45°
180.75 m	N 044 E	- 46°

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
		0 - 3.66 Casing					
1 -							
2 -							
3 -		3.66 - broken core and loss of core 3.66 - 9.50 clay altered propylitic porphyry with remnant prophyritic texture; highly fractured to brecciated, abundant FeOx as coatings on fractures, greater MnOx (supergene ?)	2230	3.00	4.00	L	L
4 -			2231	4.00	5.00	L	L
5 -			2232	5.00	6.00	L	L
6 -			2233	6.00	7.00	L	L
7 -			2234	7.00	8.00	L	3.4
8 -			2235	8.00	9.00	L	L
9 -		9.50 - 13.40 silica-argillic altered propylitic prophyry grey green matrix with mm milky quartz and dark silica veinlets, approx. 1% diss. pyrite fractures with FeOx, MnOx coatings	2236	9.00	10.00	L	L
10 -		10.36 - 10.97 25 cm core recovered	1895	10.36	10.97	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
11 -		10.97 - 13.40 50 cm core recovered	1896	10.97	13.40	L	3.4
12 -							
13 -		13.40 - 28.30 propylitic andesite, hematite stained, partly epidote altered fsp phenocrysts and epidote/chlorite altered mafic phenocrysts in aphanitic, dark green matrix fractured, with abundant MnOx coatings some fsp phenocrysts argillic altered	2237	13.40	14.00	L	L
14 -			2238	14.00	15.00	L	L
15 -			2239	15.00	16.00	L	L
16 -			2240	16.00	17.00	L	L
17 -			2241	17.00	18.00	L	L
18 -			2242	18.00	19.00	L	L
19 -			2243	19.00	20.00	L	L
20 -			2244	20.00	21.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
21 -			2245	21.00	22.00	L	L
22 -			2246	22.00	23.00	L	L
23 -			2247	23.00	24.00	L	L
24 -			2248	24.00	25.00	L	L
25 -			2249	5.00	26.00	L	L
26 -			2250	26.00	27.00	L	L
			2251	27.00	28.00	L	L
27 -							
28 -		28.30 - 41.30 broken core fragments of (silica) argillic altered propylitic porphyry and propylitic porphyry abundant FeOx, MnOx, some fault breccia with fault gouge					
29 -							
30 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
31 -							
32 -							
33 -							
34 -							
35 -							
36 -							
37 -							
38 -			2252	38.00	39.00	L	L
39 -			2253	39.00	40.00	L	L
40 -			2254	40.00	41.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
41 -		41.30 - 48.15 propylitic porphyry with zones of medium to strong argillic alteration 41.30 - 41.90 medium to strong argillic alteration, pyrite, calcite	2255	41.00	42.00	L	L
42 -			2256	42.00	43.00	L	L
43 -			2257	43.00	44.00	L	L
44 -			2258	44.00	45.00	L	L
45 -			2259	45.00	46.55	L	L
46 -		46.55 - 47.25 medium to strong argillic alteration with abundant pyrite; some calcite veining	1909	46.55	47.55	L	L
47 -			2260	47.55	48.15	L	L
48 -		48.15 - 52.65 alternating weak and strong argillic alteration of propylitic porphyry, light greenish grey to grey colour, abundant calcite in matrix and veinlets pyrite up to 3, 4% strong chloritic, partly brecciated with minor fault gouge	1910	48.15	49.00	L	L
49 -			2261	49.00	50.00	L	L
50 -			2262	50.00	51.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
51 -			2263	51.00	52.00	L	L
52 -		52.65 - 55.77 <u>argillic alteration with calcite-breccia</u> pyrite up to 5%	2264	52.00	53.00	L	L
53 -			1911	53.00	54.00	L	L
54 -			1912	54.00	55.00	L	3.4
55 -		55.77 - 73.73 <u>propylitic porphyry</u> (weakly siliceous from 55.77 to 57.08) strong epidotization of fsp phenocrysts vuggy, vugs filled with calcite, epidote chlorite, minor calcite veining, less than 1% pyrite	2265	55.00	56.00	L	L
56 -		fsp phenocrysts partly clay altered minor fracturing; FeOx, and MnOx coatings along fractures	2266	56.00	57.00	L	L
57 -			2267	57.00	58.00	L	L
58 -			2268	58.00	59.00	L	L
59 -			2269	59.00	60.00	L	L
60 -			2270	60.00	61.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
61 -		61.04 - 61.08 milky quartz, epidote, ± calcite veining at 35° to core axis	2271	61.00	62.03	L	L
62 -		62.03 - 62.42 mm fine silica - epidote veining with limonite stained siliceous halos, MnOx, vuggy	1813	62.03	62.42	L	L
63 -			2272	62.42	64.00	L	L
64 -		64.89 - 64.95 limonite staining, silicification and brecciation (micro breccia) on fractures rich in MnOx vuggy, similar to 62.03 - 62.42	2273	64.00	65.00	L	L
65 -			2274	65.00	66.00	L	L
66 -			2275	66.00	67.00	L	L
67 -			2276	67.00	68.00	L	L
68 -			2277	68.00	69.00	L	L
69 -			2278	69.00	70.00	L	L
70 -		70.95 cm greenish grey silica veining at 30° to core axis	2279	70.00	71.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
71 -			2280	71.00	72.00	L	L
72 -			2281	72.00	73.00	L	L
73 -		73.73 - 88.95 quartz-feldspar porphyry (plag/kspar) dark purple (close to contact) to brownish pink colour; strongly siliceous matrix approx. 25% phenocrysts hematite stained fsp phenocrysts, partly clay altered (montmorillonite - dikite)	1987	73.00	74.00	L	L
74 -		quartz - phenocrysts 0.1 cm rounded to hypidiomorphic, occasionally embayed approx. 1% euhedral pyrite 1 - 2 % mafic minerals (biotite, hornblende) ± fresh or partly altered to pyrite	1988	74.00	75.00	L	L
75 -		calcite - filled vugs abundant MnOx along micro fractures fragments of propylitic wallrock	1989	75.00	76.00	L	L
76 -			1990	76.00	77.00	L	L
77 -			1991	77.00	78.00	L	L
78 -			1992	78.00	79.00	L	L
79 -			1993	79.00	80.00	L	L
80 -			1994	80.00	81.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
81 -			1995	81.00	82.00	L	L
82 -			1996	82.00	83.00	L	L
83 -			1997	83.00	84.00	L	L
84 -			1998	84.00	85.00	L	L
85 -			1999	85.00	86.00	L	L
86 -			2000	86.00	87.00	L	L
87 -		87.17 mm dark silica veinlet at 20° to core axis	2001	87.00	88.00	L	L
88 -			2002	88.00	88.95	L	L
		88.95 - 90.54 strong siliceous propylitic porphyry grey green; greenish white, partly clay altered and red, hematite stained fsp phenocrysts; fine network of mm to 0.45 cm grey to dark grey silica veinlets with epidote micro brecciation, 2% pyrite, diss. and along fracturing upper contact about 50° to core axis	1897	88.95	90.00	L	L
89 -							
90 -		90.54 - 90.78 silica - barite (calcite) breccia	1898	90.00	90.54	L	L
		90.78 - 100.00 strongly siliceous propylitic porphyry with mm grey silica/epidote/calcite veinlets (in 10 to 15 cm intervals) with minor stockwork locally, minor barite	1899	90.54	90.78	L	3.4
			1900	90.78	92.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
91 -							
92 -			1901	92.00	93.00	L	L
93 -			1902	93.00	94.00	L	L
94 -			1903	94.00	95.00	L	L
95 -			1904	95.00	96.00	L	3.4
96 -			1905	96.00	97.00	L	L
97 -			1906	97.00	98.00	L	L
98 -		98.17 - 99.10 quartz-silica-calcite-sulphide (pyrite/galena) stockwork to breccia	1907	98.00	99.00	L	3.4
99 -			1908	99.00	100.00	L	L
100 -		100.00 - 116.47 same as 90.78 to 100.00 with decreasing amount of veining, less siliceous	2282	100.00	101.00		

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
101 -			2283	101.01	102.00	L	L
102 -			2284	102.00	103.00	L	L
103 -			2285	103.00	104.00	L	L
104 -			1923	104.00	105.16	L	L
105 -			2286	105.00	106.00	L	L
106 -		106.88 - 107.10 silica-epidote-calcite micro breccia	1924	106.00	107.00	L	L
107 -			1925	107.00	108.00	L	L
108 -			2287	108.00	109.00	L	L
109 -			2288	109.00	110.00	L	L
110 -			2289	110.00	111.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
111 -			2290	111.00	112.00	L	L
112 -			2291	112.00	113.00	L	L
113 -			2292	113.00	114.00	L	L
114 -			2293	114.00	115.47	L	3.4
115 -		115.47 - 116.25 silica-epidote-calcite veining to breccia in propylitic porphyry	1926	115.47	116.00	L	L
116 -			1927	116.00	117.00	0.34	L
117 -		117.23 - 119.80 siliceous propylitic porphyry silica-epidote-calcite veining	1944	117.00	118.00	L	L
118 -			1945	118.00	119.00	0.69	3.4
			1946	119.00	119.80	1.71	3.4
			1946Van	119.00	119.80	2.56	5.8
119 -		119.80 - 120.60 intensive silica epidote calcite veining and brecciation in strongly siliceous porphyry	1928	119.80	120.60	16.11	10.3
			1928RR	119.80	120.60	9.60	6.9
			1928RR	119.80	120.60	10.29	6.9
			1928Van	119.80	120.60	8.30	7.8
120 -			2003	120.60	121.00	L	L
		120.60 - 141.007 weak to moderate propylitic altered porphyry; crytsal tuff with some lithic fragments					

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
121 -			2004	121.00	122.00	L	L
122 -			2294	122.00	123.00	L	L
123 -			2295	123.00	124.00	L	L
124 -			2296	124.00	125.00	L	L
125 -			2297	125.00	126.00	L	L
126 -			2298	126.00	127.00	L	L
127 -			2299	127.00	128.00	L	L
128 -			2300	128.00	129.00	L	0.69
129 -			2301	129.00	130.00	L	L
130 -			2302	130.00	131.00	L	L

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
131 -			2303	131.00	132.00	L	L
132 -			2304	132.00	133.00	L	L
133 -			2305	133.00	134.00	L	L
134 -			2306	134.00	135.30	L	L
135 -		135.30 - 135.64 strong propylitic alteration with silica - barite (?) calcite breccia	1929	135.30	135.64	L	L
136 -			2307	135.64	137.00	L	L
137 -			2308	137.00	138.00	L	L
138 -		138.21 - 139.66 slightly more siliceous	2309	138.00	139.00	L	L
139 -			2310	139.00	140.00		
140 -			2311	140.00	141.00		

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
141 -		141.007 - 141.90 siliceous propylitic (epidote, chlorite) porphyry with epidote, calcite, silica veining 141.90 - 142.20 (40° to core axis) pyrite rich (up to 5%) zone with strong silica-argillic alteration, calcite	1930	141.00	142.00	L	L
142 -		142.20 - 143.00 siliceous, propylitic porphyry with some silica veining	1931	142.00	143.00	L	L
143 -		143.00 - 143.50 pyrite rich zone with strong silica-argillic alteration	1932	143.00	143.50	L	3.4
		143.50 moderately propylitic porphyry decreasing propylitic alteration with depth to weak propylitic	1933	143.50	144.00	L	L
144 -							
145 -							
146 -							
147 -							
148 -							
149 -							
150 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
151 -							
152 -							
153 -							
154 -							
155 -							
156 -							
157 -							
158 -							
159 -							
160 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
161 -							
162 -							
163 -		163.00 epidote - calcite - quartz veinlet, 35° to core axis					
164 -							
165 -							
166 -							
167 -							
168 -							
169 -							
170 -							

Depth	Graphic Log	GEOLOGIC DESCRIPTION	#	From	To	Au	Ag
171 -							
172 -							
173 -							
174 -							
175 -		175.92 - 176.40 dark greenish, strongly magnetic fsp porphyry, with light greenish coloured fsp phenocrysts	2005	176.00	176.45	L	L
176 -		176.45 - 176.69 silica-sulphide veining, orientation 40° to core axis and strong silica-argillic alteration, sulphides: pyrite, cpy, galena weak enveloping argillic alteration	1934	176.45	176.69	0.69	61.9
			1934Van	176.45	176.69	6.3	68.7
177 -			2006	176.69	178.00	L	L
178 -							
179 -							
180 -		180.46 small fault zone 180.27 - 180.75 minor silica-argillic alteration with silica/calcite veining 180.75 m END OF HOLE	1835	180.27	180.75	0.34	L