Date: 20 Apr, 1999

ST. ANDREW GOLDFIELDS LTD.
DIAMOND DRILL RECORD

REF CORD: -650.00 900.00 | CLAIM NUM: L70554 | TOWNSHIP: STOCK | PROVINCE: ONTARIO | HOLE NO: S98-12

LOCATION 1: 6+50S 9+00E | GRID 1: 1996: METRIC | ELEV 1: 3044.90 | PROPERTY: STOCK

LOCATION 2: | GRID 2: MINE GRID: IMPERIAL | ELEV 2: | PROJECT: STOCK

LEVEL: SURFACE | CASING LEFT IN HOLE (Y/N)? YES | SURVEYED (Y/N)? NO | PROVINCE: ONTARIO

AZIMUTH: 332.0 Deg. | LENGTH: 593.0 m | SECTION: 900E | LOGGED BY: G. Spyratos

DIP: -68.0 Deg. | CORE SIZE: NQ | SYSTEM OF MEASURE: METRIC | DATE LOGGED: 5 - 25 MAR 98

STARTED: 27 FEB 98 | COMPLETED: 24 MAR 98 | NTS: 42A10 | DRILLED BY: DOMINIK DIAMOND DRILLING LTD

PURPOSE: To test IP anomaly | ASSAY TYPE: FA | RIG: #58

COMMENTS: | TEST METHOD: TROPARI | PROJECT SUPERVISOR: K.A. Jensen

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100.00	332.00	-68.0	250.00	332.00	-67.0	400.00	332.00	-67.0	550.00	332.00	-66.0
150.00	332.00	-67.0	300.00	332.00	-68.0	450.00	332.00	-67.0	593.00	332.00	-66.0
200.00	332.00	-67.0	350.00	332.00	-68.0	500.00	332.00	-66.0			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU	AU (o/t)	AU
.00	34.00		CASING LEFT IN THE HOLE								
34.00	71.00		MASSIVE MAFIC VOLCANIC Medium green to grey-green. Fine-grained. Massive. Occasional 1-2mm mafic phenocrysts. Rare quartz-carbonate fracture-filling. Minor local epidote alteration. Moderately hard to hard. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. 35.00 36.00 Rods broke through. 52.70 1.5cm quartz-calcite stringer @ 80 dca. 60.70 61.90 Pinkish grey alteration. Fine-grained. Massive. 5% irregular quartz-carbonate veining. Minor pyrite. Upper contact @ 35 dca and lower contact @ 40 dca. Lower contact (71.00), @ 45 dca.								
71.00	92.25		PILLOWED MAFIC VOLCANIC Medium green to dark green and grey-green locally. Very fine to fine-grained. Pillowed. Local 2-5mm and occasional 1-2cm, varioles. 5% irregular quartz-carbonate veining. Moderately hard to hard. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. 87.45 88.25 Pinkish green feldspar porphyry. Numerous 1-2mm white feldspar phenocrysts. Minor local hematite alteration and fracture-filling. 5% irregular quartz-carbonate fracture-filling. Local mafic laths. Silicified. Very hard. Non-magnetic. 1% very fine to fine-grained scattered pyrite. Upper contact irregular @ approximately 30 dca and lower contact irregular @ approximately 35 dca. Lower contact (92.25), gradual.								
92.25	99.50		MASSIVE MAFIC VOLCANIC Similar to above. Fine to medium-grained. Gabbroic texture. Common epidote alteration. Lower contact (99.50), rafted.	678830	98.00	99.50	1.50	.000			
99.50	105.30		PINK QUARTZ FELDSPAR PORPHYRY Pink to pinkish red and locally grey. Common 2-3mm white feldspar phenocrysts. Local 2-5mm mafic phenocrysts. Moderately to strongly hematitized. Rare quartz-carbonate fracture-filling. Silicified. Very hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. 103.82 104.75 Hematitized mafic dyke. Reddish brown to pale reddish grey. Fine-grained. Massive. Rare quartz-carbonate fracture-filling. Moderately hard to hard. Non-magnetic. 2% very fine to fine-grained pyrite, at contacts. Upper contact @ 45 dca and lower contact @ 45 dca. Lower contact (105.30), @ 30 dca.	678831 678832 678833 678834	99.50 101.00 102.50 104.00	101.00 102.50 104.00 105.30	1.50 1.50 1.50 1.30	.040 .040 .000 .000			
105.30	110.55		MASSIVE MAFIC VOLCANIC Similar to 92.25m.	678835	105.30	106.50	1.20	.000			

2.19470

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU	AU (o/t)	AU
			105.30 109.80 Weak hematite alteration.	678836	106.50	107.65	1.15	.000			
			105.55 105.95 Reddish pink quartz feldspar porphyry. Similar to above. Upper contact irregular at low angle and lower contact @ 50 dca.	678837	107.65	109.00	1.35	.040			
			107.00 107.65 Red quartz feldspar porphyry. Common 2-3mm white feldspar phenocrysts. Intensely hydrofractured. Strong hematite alteration. Silicified. Very hard. Non-magnetic. 1-2% very fine to fine-grained scattered pyrite. Upper contact @ 40 dca and lower contact @ 35 dca.	678838	109.00	110.55	1.55	.000			
			Lower contact (110.55), @ 35 dca.								
110.55	129.30		PALE GREEN QUARTZ FELDSPAR PORPHYRY								
			Pale green and locally pinkish grey. Common 2-3mm white feldspar phenocrysts. Uniform. Common chlorite fracture-filling. Rare quartz-carbonate fracture-filling. Silicified. Very hard. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite.	678839	110.55	112.00	1.45	.000			
				678840	112.00	113.50	1.50	.000			
				678841	113.50	114.60	1.10	.000			
			114.00 114.60 Mafic volcanic inclusion. Upper contact broken and lower contact @ 35 dca.	678842	114.60	116.00	1.40	.000			
			Lower contact (129.30), irregular @ approximately 30 dca.	678843	116.00	117.50	1.50	.000			
				678844	117.50	119.00	1.50	.000			
				678845	119.00	120.50	1.50	.000			
				678846	120.50	122.00	1.50	.930			
				678847	122.00	123.50	1.50	.000			
				678848	123.50	125.00	1.50	.000			
				678849	125.00	126.50	1.50	.080			
				678850	126.50	128.00	1.50	.000			
				678851	128.00	129.30	1.30	.760			
129.30	170.10		PILLOWED MAFIC VOLCANIC								
			Similar to above.	678852	129.30	130.50	1.20	.000			
			135.00 136.15 Bleached mafic volcanic dyke. Fine-grained. Massive. 5% quartz-carbonate fracture-filling. 1-2% fine to medium-grained subhedral to anhedral, scattered pyrite. Upper contact @ approximately 25 dca and lower contact @ 35 dca.								
			138.35 2.5cm quartz-calcite-chlorite stringer @ 40 dca.								
			141.43 142.10 Weakly hematitized mafic dyke. Pale reddish grey. Fine-grained. Massive. Rare quartz-carbonate fracture-filling. Non-magnetic. 1% very fine-grained scattered pyrite. Upper contact @ 35 dca and lower contact @ approximately 35 dca.								
			150.95 151.54 Weakly hematitized mafic dyke. Similar to above. Locally pale green. Upper contact @ 50 and lower contact @ 35 dca.								
			158.35 159.75 Bleached mafic volcanic dyke. Similar to above. Upper contact @ 55 dca and lower contact @ 35 dca.								
			Lower contact (170.10), gradual.								
170.10	191.45		MASSIVE MAFIC VOLCANIC								
			Similar to 92.25m.								
			178.45 1cm quartz-calcite stringer @ 50 dca.								
			Lower contact (191.45), @ 35 dca.								
191.45	268.35		PILLOWED MAFIC VOLCANIC								
			Similar to above. Local pale grey-green sections.	678853	267.00	268.35	1.35	.000			
			193.95 1cm quartz-calcite stringer @ 70 dca.								
			199.53 2.5cm quartz-calcite stringer @ 60 dca.								
			248.75 1cm quartz-calcite stringer @ 40 dca.								
			Lower contact (268.35), @ 30 dca.								
268.35	274.20		GREY QUARTZ FELDSPAR PORPHYRY								
			Grey, with common pale grey alteration halos. Common 2-5mm white feldspar phenocrysts. 5% quartz-carbonate veining. Local chlorite fracture-filling. Silicified. Very hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite.	678854	268.35	269.75	1.40	.340			
				678855	269.75	271.25	1.50	.000			
				678856	271.25	272.75	1.50	.040			
			268.35 269.75 Grey-green carbonate. Grey-green to olive green. Fine-grained. Locally brecciated. 10-15% irregular and brecciated quartz-carbonate veining. Locally moderately chloritic. Minor local fuchsite alteration. Moderately hard to moderately soft. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Lower contact @ 25 dca.	678857	272.75	274.20	1.45	.000			
			269.55 5cm quartz-calcite stringer, with minor fuchsite, @ 35 dca.								
			272.75 274.20 Grey-green carbonate. Similar to above. Upper contact irregular @ approximately 10 dca.								
			Lower contact (274.20), @ 40 dca.								
274.20	318.75		BUFF QUARTZ FELDSPAR PORPHYRY								
			WHITE QUARTZ FELDSPAR PORPHYRY.	678858	274.20	275.50	1.30	.150			
			White to greyish buff and locally pale green. Occasional 2-3mm white feldspar phenocrysts.	678859	275.50	277.00	1.50	.110			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU	AU (o/t)	AU
			Hydrofractured. 5% quartz-carbonate fracture-filling. Strongly silicified. Very hard. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Locally up to 5% pyrite. 283.40 0.5cm quartz-calcite stringer @ 40 dca. 296.95 0.5cm @ 30 dca. Lower contact (318.75), @ 30 dca.	678860	277.00	278.50	1.50	.050			
				678861	278.50	280.00	1.50	.180			
				678862	280.00	281.50	1.50	.160			
				678863	281.50	283.00	1.50	.060			
				678864	283.00	284.50	1.50	.040			
				678865	284.50	286.00	1.50	.000			
				678866	286.00	287.50	1.50	.120			
				678867	287.50	289.00	1.50	.140			
				678868	289.00	290.50	1.50	.090			
				678869	290.50	292.00	1.50	.090			
				678870	292.00	293.50	1.50	.080			
				678871	293.50	295.00	1.50	.050			
				678872	295.00	296.50	1.50	.070			
				678873	296.50	298.00	1.50	.040			
				678874	298.00	299.50	1.50	.040			
				678875	299.50	301.00	1.50	.000			
				678876	301.00	302.50	1.50	.220			
				678877	302.50	304.00	1.50	.000			
				678878	304.00	305.50	1.50	.000			
				678879	305.50	307.00	1.50	.110			
				678880	307.00	308.50	1.50	.000			
				678881	308.50	310.00	1.50	.000			
				678882	310.00	311.50	1.50	.000			
				678883	311.50	313.00	1.50	.000			
				678884	313.00	314.50	1.50	.120			
				678885	314.50	316.00	1.50	.000			
				678886	316.00	317.50	1.50	.000			
				678887	317.50	318.75	1.25	.000			
318.75	329.63		GREY-GREEN CARBONATE Dark grey-green to dark green and locally dark olive green. Fine-grained. Locally brecciated. Chloritic. Weak local sericite alteration. 10-15% irregular and brecciated quartz-carbonate veining. Moderately hard to moderately soft. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Locally up to 3% pyrite. 322.93 323.64 GREY QUARTZ FELDSPAR PORPHYRY. Dark greenish grey. Numerous 2-5mm feldspar phenocrysts. Locally chloritic. 20% irregular quartz-carbonate veining. Silicified. Very hard. Non-magnetic. 2% very fine to fine-grained scattered pyrite. Upper contact @ 15 dca and lower contact @ 50 dca. Lower contact (329.63), @ 65 dca.	678888	318.75	320.00	1.25	.000			
				678889	320.00	321.50	1.50	.000			
				678890	321.50	323.00	1.50	.000			
				678891	323.00	324.50	1.50	.000			
				678892	324.50	326.00	1.50	.000			
				678893	326.00	327.50	1.50	.000			
				678894	327.50	328.50	1.00	.000			
				678895	328.50	329.63	1.13	.000			
329.63	344.90		PALE GREEN QUARTZ FELDSPAR PORPHYRY Pale green to pale grey-green and locally dark green and pinkish buff. Numerous 2-5mm white feldspar phenocrysts. Locally hydrofractured. Occasional chlorite fracture-filling. 5% quartz-carbonate fracture-filling. Locally feldspathized. Silicified. Very hard. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Locally up to 3%. 341.65 342.85 Grey-green carbonate inclusion. Similar to above. Massive. Upper contact @ 20 dca and lower contact irregular @ approximately 70 dca. 344.30 0.5cm quartz-calcite stringer @ 65 dca. Lower contact (344.90), @ 30 dca.	678896	329.63	331.00	1.37	.000			
				678897	331.00	332.50	1.50	.000			
				678898	332.50	334.00	1.50	.000			
				678899	334.00	335.50	1.50	.040			
				678900	335.50	337.00	1.50	.000			
				678901	337.00	338.50	1.50	.000			
				678902	338.50	339.50	1.00	.000			
				678903	339.50	340.50	1.00	.000			
				678904	340.50	341.65	1.15	.000			
				678905	341.65	342.85	1.20	.060			
				678906	342.85	344.00	1.15	.000			
				678907	344.00	344.90	.90	.050			
344.90	358.00		BUFF QUARTZ FELDSPAR PORPHYRY Greyish buff to greenish buff and locally pinkish buff. Aphanitic matrix, with occasional 2-3mm white feldspar phenocrysts. Unit becomes increasingly intensely brecciated and hydrofractured. Locally strongly feldpathized. 5% irregular quartz-carbonate fracture-filling. Strongly silicified. Very hard. Non-magnetic. Overall 2-3% fine to medium-grained subhedral to anhedral, scattered pyrite. Locally up to 5% pyrite, associated with brecciated sections. 354.85 1cm FAULT GOUGE @ 10 dca. Lower contact (358.00), broken.	678908	344.90	346.00	1.10	.040			
				678909	346.00	347.50	1.50	.000			
				678910	347.50	349.00	1.50	.060			
				678911	349.00	350.50	1.50	.100			
				678912	350.50	352.00	1.50	1.190			
				678913	352.00	353.50	1.50	.190			
				678914	353.50	355.00	1.50	.100			
				678915	355.00	356.50	1.50	.100			
				678916	356.50	358.00	1.50	.070			
358.00	361.55		GREY FELDSPAR PORPHYRY Grey. Fine-grained. Occasional 2-3mm white feldspar phenocrysts. Resembles felsic dyke. Numerous hairline fractures. Rare quartz-carbonate fracture-filling. Siliceous. Moderately hard to hard.	678917	358.00	359.50	1.50	.990			
				678918	359.50	360.50	1.00	.140			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU	AU (o/t)	AU
			Non-magnetic. Overall 5-7% very fine to fine-grained disseminated pyrite. Lower contact (361.55), faded @ approximately 40 dca.	678919	360.50	361.55	1.05	.110			
361.55	439.20		GREY QUARTZ FELDSPAR PORPHYRY								
			Grey to pale grey and locally grey-green to pale green. Aphanitic matrix, with occasional to common 2-3mm feldspar phenocrysts. Locally hydrofractured. Occasional to rare thin quartz-carbonate stringers. Locally strongly feldspathized. Strongly silicified. Very hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. Locally up to 5% pyrite.	678920	361.55	363.00	1.45	.140			
				678921	363.00	364.50	1.50	.130			
				678922	364.50	366.00	1.50	.070			
				678923	366.00	367.50	1.50	.100			
			398.00 410.00 Unit becomes pinkish buff to pinkish grey and intensely hydrofractured.	678924	367.50	369.00	1.50	.060			
			401.47 402.15 Mafic dyke. Medium green. Fine-grained. Massive. Rare quartz-carbonate fracture-filling. 1-2% very fine to fine-grained scattered pyrite. Both contacts brecciated.	678925	369.00	370.50	1.50	.230			
				678926	370.50	372.00	1.50	.140			
				678927	372.00	373.50	1.50	.100			
			434.43 435.53 Mafic dyke. Pale green to pale olive green. Fine-grained. Massive. Brecciated at contacts. 3% quartz-carbonate fracture-filling. Moderately hard to hard. Non-magnetic. 4-5% very fine to fine-grained scattered pyrite. Upper contact @ approximately 30 dca and lower contact @ 70 dca.	678928	373.50	375.00	1.50	.170			
				678929	375.00	376.50	1.50	.120			
				678930	376.50	378.00	1.50	.110			
				678931	378.00	379.50	1.50	.040			
			437.50 438.50 Breccia zone. Grey-green carbonate with quartz feldspar porphyry and quartz-carbonate fragments and inclusions. 30% quartz-carbonate brecciated veining. 5-7% very fine to fine-grained scattered pyrite. Blocky and crumbly core. Both contacts broken.	678932	379.50	381.00	1.50	.080			
				678933	381.00	382.50	1.50	.090			
				678934	382.50	384.00	1.50	.080			
				678935	384.00	385.50	1.50	.120			
			Lower contact (439.20), broken.	678936	385.50	387.00	1.50	.280			
				678937	387.00	388.50	1.50	.080			
				678938	388.50	390.00	1.50	.280			
				678939	390.00	391.50	1.50	.220			
				678940	391.50	393.00	1.50	.220			
				678941	393.00	394.50	1.50	.220			
				678942	394.50	396.00	1.50	.280			
				678943	396.00	397.50	1.50	.090			
				678944	397.50	399.00	1.50	.430			
				678945	399.00	400.50	1.50	.490			
				678946	400.50	401.50	1.00	.550			
				678947	401.50	402.50	1.00	.040			
				678948	402.50	404.00	1.50	.050			
				678949	404.00	405.50	1.50	.120			
				678950	405.50	407.00	1.50	.440			
				678951	407.00	408.50	1.50	.580			
				678952	408.50	410.00	1.50	.100			
				678953	410.00	411.50	1.50	.070			
				678954	411.50	413.00	1.50	.150			
				678955	413.00	414.50	1.50	.290			
				678956	414.50	416.00	1.50	.080			
				678957	416.00	417.50	1.50	.140			
				678958	417.50	419.00	1.50	.330			
				678959	419.00	420.50	1.50	.320			
				678960	420.50	422.00	1.50	.090			
				678961	422.00	423.50	1.50	.120			
				678962	423.50	425.00	1.50	.100			
				678963	425.00	426.50	1.50	.110			
				678964	426.50	428.00	1.50	.120			
				678965	428.00	429.50	1.50	.200			
				678966	429.50	431.00	1.50	.090			
				678967	431.00	432.50	1.50	.080			
				678968	432.50	433.50	1.00	.120			
				678969	433.50	434.43	.93	.290			
				678970	434.43	435.53	1.10	.890			
				678971	435.53	437.00	1.47	.120			
				678972	437.00	438.00	1.00	1.140			
				678973	438.00	439.20	1.20	.500			
439.20	459.75		GREY CARBONATE								
			Grey to pale grey and locally pale emerald green and grey-green. Fine-grained. Brecciated. Locally mottled texture. 15-20% and locally up to 30%, irregular and brecciated quartz-carbonate veining. Weak fuchsite alteration locally. Locally fragmental, with quartz feldspar porphyry and mafic fragments. Moderately hard to hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. Locally up to 5% pyrite. Blocky and crumbly core.	678974	439.20	440.65	1.45	3.455			
				678975	440.65	442.00	1.35	.100			
				678976	442.00	443.50	1.50	.100			
				678977	443.50	445.00	1.50	.060			
				678978	445.00	446.50	1.50	.170			
			439.20 440.65 Breccia zone. Mostly quartz-carbonate and occasional felsic and quartz feldspar porphyry fragments. 40% quartz-carbonate brecciated veining. 15-20% very fine to fine-grained scattered pyrite. Lower contact broken.	678979	446.50	448.00	1.50	.110			
				678980	448.00	449.00	1.00	.090			
				678981	449.00	450.15	1.15	1.460			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU	AU (o/t)	AU
			444.07 1.5cm quartz-calcite stringer @ 70 dca.	678982	451.20	452.50	1.30	3.095			
			450.15 451.20 Very fine-grained DIABASE dykelet. Dark grey to dark grey-green. Strongly magnetic. Both contacts broken.	678983	452.50	454.00	1.50	2.060			
			451.20 455.10 Unit becomes strongly brecciated, fragmental and moderately to strongly sericitic. Locally up to 20% very fine to fine-grained pyrite, in contorted bands. Lower contact @ 50 dca.	678984	454.00	455.10	1.10	.330			
				678985	455.10	456.50	1.40	.140			
				678986	456.50	457.50	1.00	.210			
				678987	457.50	458.50	1.00	.310			
			451.60 452.30 GREY QUARTZ FELDSPAR PORPHYRY. Purplish grey. Common 2-5mm white feldspar phenocrysts. Intensely hydrofractured. Both contacts broken.	678988	458.50	459.75	1.25	1.420			
			455.10 459.75 Strongly brecciated unit, with 30-40% irregular and brecciated quartz-carbonate veining. Locally fragmental.								
			Lower contact (459.75), @ 50 dca.								
459.75	465.35		FAULT ZONE								
			Crumbly and gougy talc chlorite schist.	678989	459.75	461.00	1.25	.380			
			Lower contact (465.35), @ 45.								
465.35	468.10		MASSIVE ULTRAMAFIC VOLCANIC								
			Dark green. Fine-grained. Massive. Weakly carbonatized. Rare quartz-carbonate fracture-filling. Chloritic. Moderately hard to moderately soft. Weakly magnetic. 1-2% medium to coarse-grained subhedral pyrite.								
			Lower contact (468.10), broken.								
468.10	472.65		FAULT ZONE								
			Blocky and crumbly carbonatized talc chlorite schist, with intermittent fault gouges.								
			Lower contact (472.65), @ 40 dca.								
472.65	477.25		TALC-CHLORITE SCHIST								
			Dark green to black green. Fine-grained. Locally brecciated. Weakly carbonatized. Chloritic. Talcose. 5-10% irregular quartz-carbonate veining and masses. Moderately soft to soft. Locally magnetic. Minor to 1% medium to coarse-grained scattered pyrite. Minor intermittent fault gouges.								
			Lower contact (477.25), @ 65 dca.								
477.25	483.30		FAULT ZONE								
			Similar to above.	678990	482.00	483.30	1.30	.040			
			Lower contact (483.30), broken.								
483.30	491.20		GREY CARBONATE								
			Grey to grey-green. Fine-grained. Fragmental, with 5% felsic and quartz feldspar porphyry fragments. Brecciated. Locally foliated @ 30-50 dca. Moderately chloritic. Carbonatized. 15-20% and locally up to 30%, irregular and brecciated quartz-carbonate veining, mostly parallel to foliation. Moderately hard to moderately soft. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite.	678991	483.30	484.50	1.20	.050			
				678992	484.50	486.00	1.50	.090			
				678993	486.00	487.50	1.50	.000			
				678994	487.50	489.00	1.50	.000			
				678995	489.00	490.00	1.00	.000			
			485.25 20cm FAULT GOUGE. Both contacts broken.	678996	490.00	491.20	1.20	.000			
			Lower contact (491.20), broken.								
491.20	495.25		TALC-CHLORITE SCHIST								
			Similar to above.	678997	491.20	492.50	1.30	.000			
			492.30 5cm FAULT GOUGE @ 60 dca.								
			493.95 5cm FAULT GOUGE @ 30 dca.								
			Lower contact (495.25), @ 40 dca.								
495.25	501.15		FAULT ZONE								
			Similar to above.								
			Lower contact (501.15), @ 35 dca.								
501.15	504.03		TALC-CHLORITE SCHIST								
			Similar to above.								
			Lower contact (504.03), @ 65 dca.								
504.03	507.05		FAULT ZONE								
			Similar to above. 1m of core missing.								
			Lower contact (507.05), @ 50 dca.								
507.05	513.65		TALC-CHLORITE SCHIST								
			Similar to above.								
			510.47 2cm FAULT GOUGE @ 60 dca.								
			Lower contact (513.65), @ 70 dca.								

ST. ANDREW GOLDFIELDS LTD.
DIAMOND DRILL RECORD

Date: 20 Apr, 1999

Hole No: S98-12
Page: 6 of 6

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU	AU (o/t)	AU
513.65	515.40		**FAULT ZONE** Similar to above. Lower contact (515.40), @ 35 dca.	678998	514.00	515.40	1.40	.000			
515.40	518.85		**ALBITITE** White to pale pink and locally pink. Numerous 2-3mm albite phenocrysts. Uniform. Common talc chlorite schist inclusions and chlorite alteration. Local chlorite fracture-filling. Very hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. Lower contact (518.85), irregular @ approximately 35 dca.	678999 679000 678151	515.40 516.50 517.50	516.50 517.50 518.85	1.10 1.00 1.35	.000 .000 .000			
518.85	523.95		**TALC-CHLORITE SCHIST** Similar to above. 523.28 15cm **FAULT GOUGE** @ 45 dca. Lower contact (523.95), @ 35 dca.	678152	518.85	520.00	1.15	.000			
523.95	532.85		**FAULT ZONE** Similar to above. Lower contact (532.85), @ 30 dca.								
532.85	576.85		**TALC-CHLORITE SCHIST** Similar to above. 556.32 1cm **FAULT GOUGE** @ 30 dca. 570.20 576.12 Decrease in the amount of quartz-carbonate. Very weakly carbonatized. Foliated @ 15-25 dca. 571.88 1.5cm **FAULT GOUGE** @ 55 dca. 574.80 3cm **FAULT GOUGE** @ 55 dca. 576.12 576.85 Very fine-grained **DIABASE** dykelet. Dark purplish grey to black. Very fine-grained. Occasional 5-7mm plagioclase poikiloblasts. Both contacts chilled. Upper contact @ approximately 75 dca. Lower contact (576.85), @ approximately 60 dca.								
576.85	585.30		**ARGILLITE-GREYWACKE** Grey to dark grey. Fine-grained. 30%, dark grey to black, ARGILLITE beds, @ 50-55 dca. Rare quartz-carbonate stringers. Moderately hard to moderately soft. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. 576.90 577.50 *Mica alteration.* 577.85 3cm quartz-calcite stringer @ 40 dca. 581.47 581.90 Talc chlorite schist inclusion. Both contacts @ 55 dca. Lower contact (585.30), @ 65 dca.								
585.30	593.00		**TALC-CHLORITE SCHIST** Similar to above. 586.10 20cm **FAULT GOUGE** @ 45 dca. 586.40 587.65 **QUARTZ VEIN.** Barren. Upper contact @ 55 dca and lower contact @ 60 dca. 589.65 589.90 **FAULT GOUGE.** Upper contact @ 75 dca and lower contact @ 45 dca.	678153 678154 678155	585.30 586.40 587.65	586.40 587.65 589.00	1.10 1.25 1.35	.000 .000 .000			
593.00			**END OF HOLE** **CORE STORED ON STOCK MINE PROPERTY.**								

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9960.00179.
Assessment Files Research Imaging

42A10SE2006 2.19470 STOCK 900

of subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assesment work and correspond with the mining land holder. Questions about this Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

RECEIVED
APR 22 1999
pm 2:40
PORCUPINE MINING DIVISION

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name **St Andrew Goldfields Ltd.**	Client Number 196705
Address RR#2	Telephone Number (705)-273-2525
Matheson, Ontario P0K 1N0	Fax Number (705)-273-3333
Name	Client Number
Address	Telephone Number
	Fax Number

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1020
APR 23 1999
GEOSCIENCE ASSESSMENT OFFICE

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs)

☑ Physical: drilling stripping, trenching and associated assays

☐ Rehabilitation

Work Type	Office Use
Surface Diamond Drilling S98-12	Commodity
	Total $ Value of Work Claimed $19,099
Dates Work Performed From 27 Day 02 Month 98 Year To 25 Day 03 Month 98 Year	NTS Reference
Global Positioning System Data (if available) — Township/Area **Stock**	Mining Division Porcupine
M or G-Plan Number **G-3248**	Resident Geologist District Timmins

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

2.19470

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name Kian A. Jensen	Telephone Number (705) 273-2525
Address RR#2, Matheson, Ontario P0K 1N0	Fax Number (705) 273-3333
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

I, Kian A. Jensen (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date April 21/99
Agent's Address RR#2, Matheson, Ontario P0K 1N0	Telephone Number 705-273-2525	Fax Number 705-273-3333

0241 (03/97)

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W960.00179

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8,892	$ 4,000	0	$4,892
600321	N1/2 L5 C1 Lease#104881-1	160	$ 37.27			$ 37.27
600322	N ½ L6 C1 Lease# 103201	160	49,062.08			49,062.08
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Column Totals		$ 49,099.35			$ 49,099.35

2.19470

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10 20
APR 23 1999
GEOSCIENCE ASSESSMENT OFFICE

I, Kian A. Jensen (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
Kian A Jensen	April 21/99

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp

RECEIVED
APR 22 1999
2:40 p.m.
PORCUPINE MINING DIVISION

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9960.00179

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Diamond Drilling	**593 M**	**$ 77.60**	**$ 46,019.35**
Geologist	**4 Days**	**$ 200.00**	**800.00**
Corecutting	**4 Days**	**$ 108.00**	**432.00**
Assays	**176 Samples**	**$ 10.50**	**1,848.00**
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	**$ 49,099.35**

2.19470

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1020
APR 23 1999
GEOSCIENCE ASSESSMENT OFFICE

RECEIVED
APR 22 1999
2:10 pm
PORCUPINE MINING DIVISION

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at ~~100% of~~ the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total $ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Kian A. Jensen, do hereby certify, that the amounts shown are as accurate as may reasonably
(please print full name)
be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Declaration of Work form as Agent I am authorized to make this certification.
(recorded holder, agent, or state company position with signing authority)

Signature	Date
Kian Jensen	April 21/99

0212 (03/97)

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

May 31, 1999

ST. ANDREW GOLDFIELDS LTD.
166 PEARL STREET
TORONTO, Ontario
M5H-1L3

Dear Sir or Madam:

Submission Number: 2.19470

Subject: Transaction Number(s):	W9960.00179	**Status** Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 13798
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.19470

Date Correspondence Sent: May 31, 1999 **Assessor:** Steve Beneteau

General Comment:

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9960.00179	104881	STOCK	Deemed Approval	May 31, 1999

Section:
16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

K. A. Jensen
MATHESON, ONTARIO, CANADA

ST. ANDREW GOLDFIELDS LTD.
TORONTO, Ontario

Correspondence ID: 13798

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

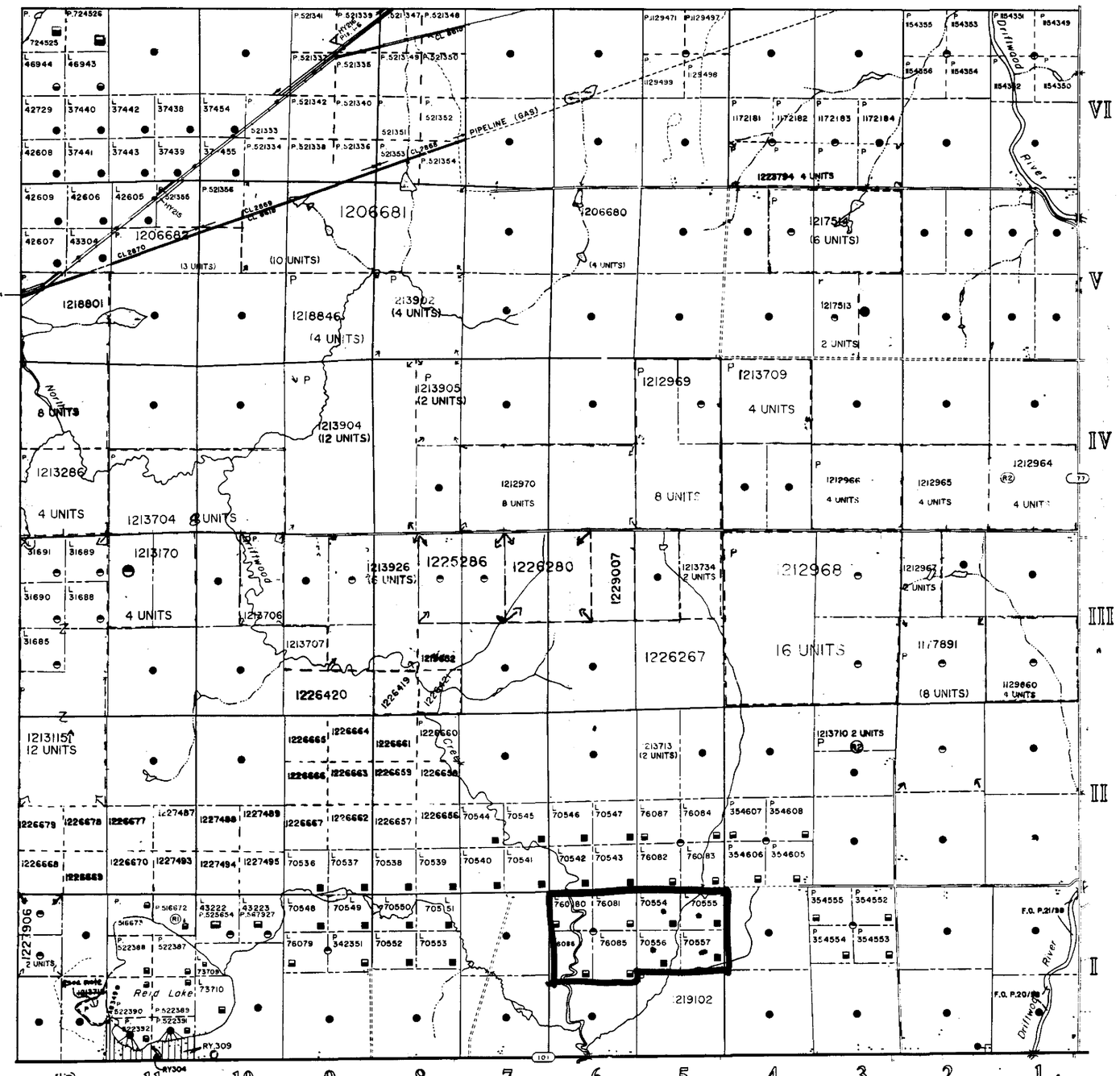
M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
(R1)	Reserve for recreational purposes under Sec 3 P.L.A.			S.R.O.	188543
(R2)	Application pending under P.L.A. for surface rights				

NOTE
* Order W. 25/83, July 15, 1983, withdrew mining rights on lands covered by navigable water that would have passed to a patentee or lessee except for their reservation by Sect. 1 of The Beds of Navigable Waters Act.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

CLERGUE TWP.



BOND TWP.

2.19470
PDRILL

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	⊖
" , MINING RIGHTS ONLY	⊖
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	▣
" , MINING RIGHTS ONLY	▣
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊖
CANCELLED	●
SAND & GRAVEL	⊖

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO APRIL 1913, VESTED IN ORIGINAL PATENTEE BY THE CROWN LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63. SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

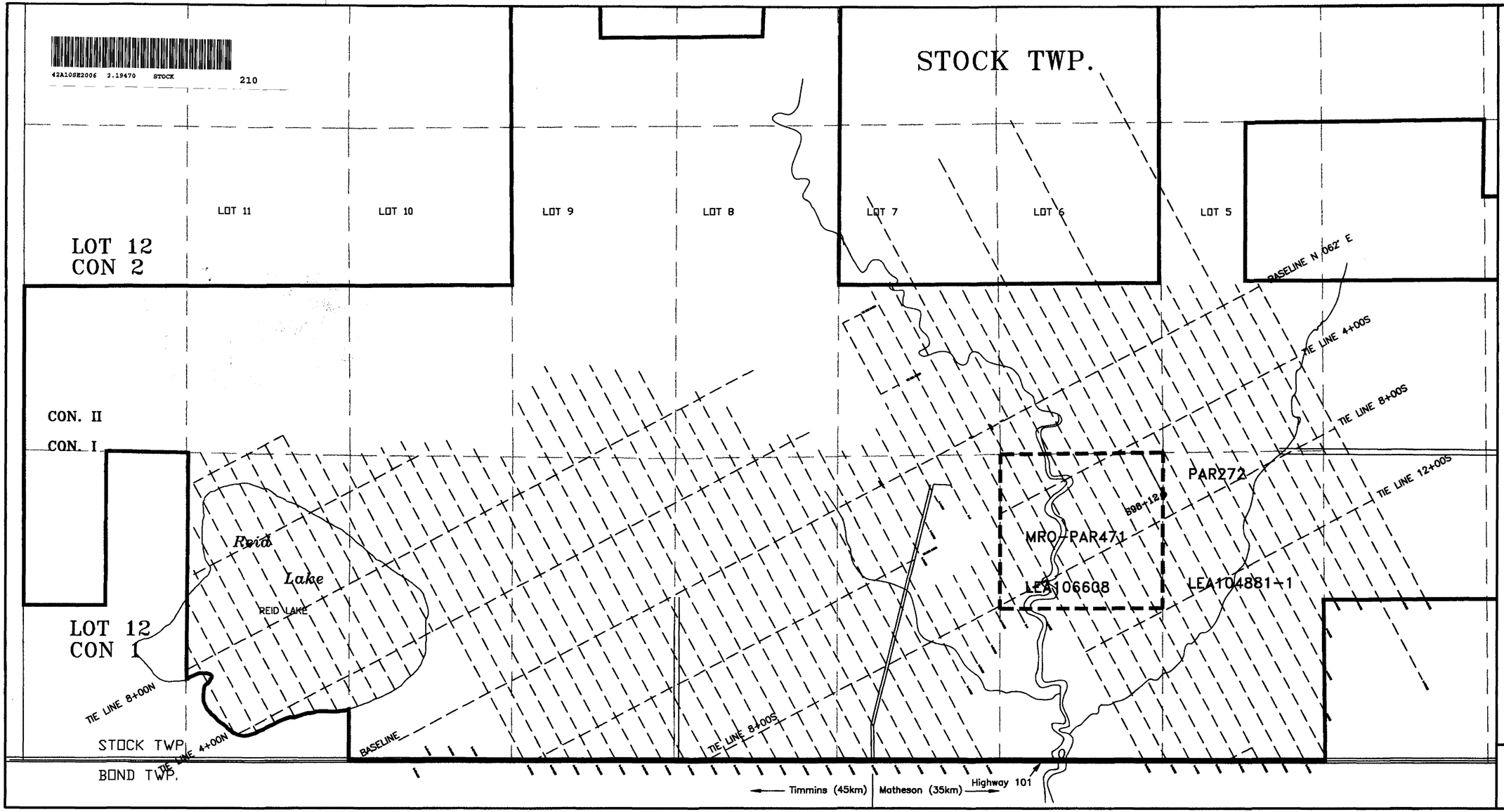
JUN 03 1985

TOWNSHIP
STOCK

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH, 1985
ACTIVATED APR. 25/90 D.C.
Number G-3248



LEGEND

DDH: location & hole number

Mine buildings

Property boundary

Leased claims: Stock Township:
Source of assessment work:
N1/2, LOT 5, CON I
Leased Claim L-70554, Parcel 272
Lease Number 104881-1

N1/2, LOT 6, CON I
Leased Claim L-76081, Parcel 471
Lease Number 106608

DDH S98-12 is located approx. 677 feet south and 8.8 feet east of the NE corner of the N1/2 of Lot 6, Concession I

Collar at Line 9+00 East 6+50 South
DDH S98-12 Azi=332° Dip=-68°

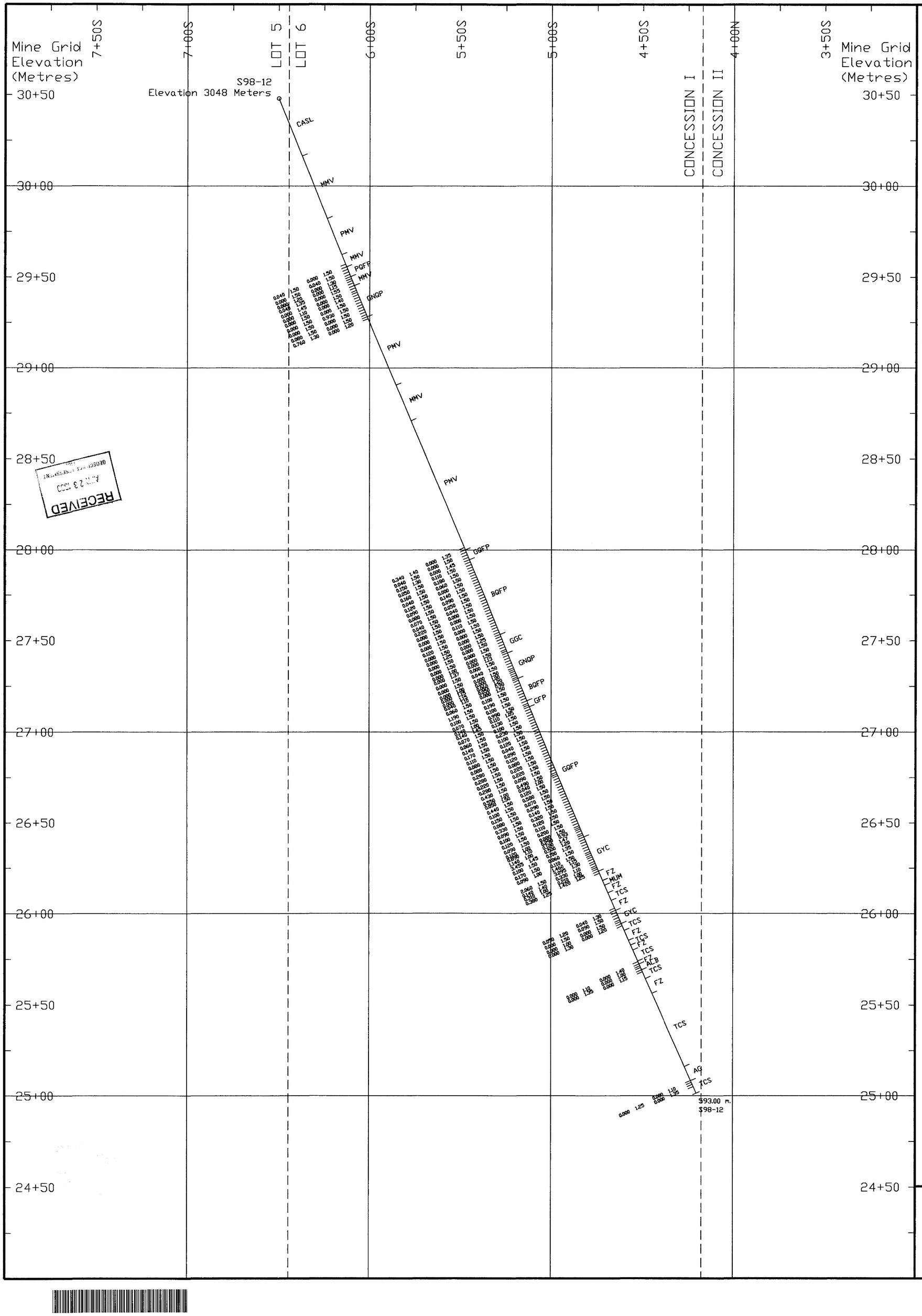
12W

Scale: 0 500 1000 1500 2000 ft

ST ANDREW GOLDFIELDS LTD.

Stock Mine
Plan View: DDHs S98-12

FILE NAME: STK-Plan-S98-12
DATE: April 19, 1999



LEGEND

VOLCANICS
- MMV MASSIVE MAFIC VOLCANICS
- PMV PILLOWED MAFIC VOLCANICS
- BMV BLEACHED MAFIC VOLCANICS
- VMV VARIOLITIC MAFIC VOLCANICS
- MUM MASSIVE ULTRAMAFIC VOLCANICS
- TP TUFFACEOUS PYROCLASTIC
- CMV CARBONATED MAFIC VOLCANICS
- CTP CARBONATED TUFFACEOUS PYROCLASTIC

CARBONATES
- GGC GREY–GREEN CARBONATE
- GNC GREEN CARBONATE
- GYC GREY CARBONATE
- GYBX GREY CARBONATE BRECCIA
- GYS SILICIFIED GREY CARBONATE
- GQBX GREEN CARBONATE + QUARTZ BRECCIA
- GFRM GREEN CARBONATE FRAGMENTAL
- AGC APPLE GREEN CARBONATE
- MCZ MIXED CARBONATE ZONE

SCHIST
- TCS TALC–CHLORITE SCHIST
- CTCS CARBONATED TALC–CHLORITE SCHIST
- STCS SILICIFIED TALC–CHLORITE SCHIST

METASEDIMENTS
- GWKE GREYWACKE
- AG ARGILLITE–GREYWACKE
- ARK ARKOSE
- CONG CONGLOMERATE

INTRUSIVES
- ALB ALBITITE
- PDIA POIKILOBLASTIC DIABASE
- FDIA FINE–GRAINED DIABASE
- CDIA MEDIUM–COARSE–GRAINED DIABASE
- MD MAFIC DYKE
- GAB GABBRO
- LAMP LAMPROPHYRY
- GFP GREY FELDSPAR PORPHYRY
- PFP PINK FELDSPAR PORPHYRY
- BFP PALE BROWN FELDSPAR PORPHYRY
- GNQP PALE GREEN QUARTZ FELDSPAR PORPHYRY
- PQFP PINK QUARTZ FELDSPAR PORPHYRY
- GQFP GREY QUARTZ FELDSPAR PORPHYRY
- BQFP BUFF QUARTZ FELDSPAR PORPHYRY
- ID INTERMEDIATE DYKE
- FEL FELSIC DYKE

STRUCTURAL AND VEINING
- FZ FAULT ZONE
- SZ SHEAR ZONE
- QV QUARTZ VEIN

DRILL HOLE INFORMATION
- EOH END OF HOLE
- CASP CASING PULLED
- CASL CASING LEFT IN HOLE
- CASU CASING UNKNOWN

Assays: grams per tonne (g/t) / metre

Leased claims: Stock Township:
Source of assessment work:
N1/2, LOT 5, CON I
Leased Claim L–70554, Parcel 272
Lease Number 104881–1

N1/2, LOT 6, CON I
Leased Claim L–76081, Parcel 471
Lease Number 106608

DDH S98–12 is located approx. 677 feet south and 8.8 feet east of the NE corner of the N1/2 of Lot 6, Concession I

Collar at Line 9+00 East 6+50 South
DDH S98–12 Azi=332° Dip=–68°

Hole Collar in North 1/2, Lot 5, Concession I with 4.5 metres with Lot
E.O.H. is in North 1/2, Lot 5, Concession I with 588.5 metres within Lot

50 0 50 100
meters

DDH S98-12 (Looking N 242 °E)

FILE NAME: S98–12.dwg
DATE: April 19, 1999