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Date: 20 Apr, 1999

ST. ANDREW GOLDFIELDS LTD.  
DIAMOND DRILL RECORD

Page: 1 of 7

REF CORD: .00 -1200.00 CLAIM NUM: L70552 TOWNSHIP: STOCK PROVINCE: ONTARIO HOLE NO: S98-15  
 LOCATION 1: 0+00BL 12+00W 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: 698.0 m SECTION: 1000W LOGGED BY: G. Spyrtatos  
 DIP: -68.0 Deg. CORE SIZE: NQ SYSTEM OF MEASUREMENT: METRIC DATE LOGGED: 25 MAY - 1 JUN 98  
 STARTED: 19 MAY 98 COMPLETED: 27 MAY 98 NTS: DRILLED BY: DOMINIK DIAMOND DRILLING LTD  
 PURPOSE: To test IP anomaly ASSAY TYPE: NTS RIG: #58  
 COMMENTS: TEST METHOD: PREPARI PROJECT SUPERVISOR: K.A.Jensen

RECEIVED  
 APR 23 1999  
 GEOSCIENCE ASSESSMENT  
 OFFICE

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
25.00	332.00	-69.0	225.00	332.00	-68.0	425.00	332.00	-66.0	625.00	332.00	-60.0
75.00	332.00	-68.0	275.00	332.00	-68.0	475.00	332.00	-63.0	675.00	332.00	-59.0
125.00	332.00	-68.0	325.00	332.00	-67.0	525.00	332.00	-61.0	698.00	332.00	-59.0
175.00	332.00	-69.0	375.00	332.00	-67.0	575.00	332.00	-59.0			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Length (m)	AU (g/t)	AU	AU (o/t)	AU
.00	15.00		CASING LEFT IN THE HOLE								
15.00	121.85		PILLOWED MAFIC VOLCANIC Medium green to grey-green and dark green at pillow selvages. Very fine to fine-grained. Pillowed. Common local 2-3mm varioles associated with pillow selvages. Locally bleached to pale greenish buff. Occasional to rare quartz-carbonate fracture-filling. Moderately hard to moderately soft. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. 75.92 77.82 Quartz feldspar porphyry. Pale green to grey and pinkish grey locally. Aphanitic matrix, with common 2-3mm white feldspar phenocrysts. Hydrofractured. Strongly silicified. Very hard. Non-magnetic. Overall minor to 1% very fine to fine-grained scattered pyrite. Upper contact @ 55 dca and lower contact @ 45 dca. 85.27 1cm quartz-calcite stringer @ 70 dca. 119.20 121.85 Unit becomes dark green to olive green locally. Massive. 121.25 121.55 Dark grey-green feldspar porphyry. Occasional 2-3mm pink feldspar phenocrysts. Siliceous. Moderately hard to hard. Non-magnetic. Upper contact @ 60 dca and lower contact @ 50 dca. Lower contact (121.85), @ 55 dca.	108836	144.50	145.65	1.15	.000			
121.85	145.65		GREY FELDSPAR PORPHYRY Grey to pale green and locally pinkish grey. Numerous 2-3mm white and pink feldspar phenocrysts. Common 1-2mm mafic laths and phenocrysts. Also occasional 0.5-2cm mafic clasts. Locally hydrofractured. Weak hematite alteration locally. Occasional hematite and epidote fracture-filling. Rare quartz-carbonate fracture-filling. Siliceous. Moderately hard to hard. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Locally up to 3% pyrite. 122.58 122.72 Mafic dyke. Dark grey-green. Fine-grained. Massive. Upper contact @ 60 dca and lower contact @ 65 dca. 130.95 2.5cm pink calcite stringer, @ approximately 55 dca. 132.52 133.00 Mafic dyke. Similar to above. Upper contact brecciated and lower contact @ 70 dca. 136.75 137.00 Mafic dyke. Similar to above. Upper contact irregular and lower contact @ 65 dca. 139.94 140.15 Mafic dyke. Similar to above. Upper contact @ 70 dca and lower contact irregular @ approximately 65 dca. 140.25 140.39 Mafic dyke. Similar to above. Upper contact @ 40 dca and lower contact @ 55 dca. 142.35 142.67 Mafic dyke. Similar to above, but weakly hematitized. Upper contact brecciated and lower contact @ 60 dca. Lower contact (145.65), irregular @ approximately 45 dca.	108837	145.65	147.00	1.35	.030			
145.65	152.00		PALE BROWN FELDSPAR PORPHYRY PINKISH BROWN FELDSPAR PORPHYRY.								

2.19478  
 82461.2



42A10SW2016 2.19478 STOCK

010

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngh (m)	AU (g/t)	AU	AU (o/t)	AU
			Pinkish brown to greyish brown and reddish brown locally. Fine-grained matrix, with numerous 1mm and occasional 2-5mm, feldspar phenocrysts. Locally brecciated. Hydrofractured. Occasional to common white and pink calcite fracture-filling. Strongly silicified. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Locally up to 3% pyrite. Lower contact (152.00), irregular @ approximately 20 dca.	108838 108839 108840 108841	147.00 148.50 150.00 151.00	148.50 150.00 151.00 152.00	1.50 1.50 1.00 1.00	.070 .030 .000 .000			
152.00	164.20		<b>MASSIVE ULTRAMAFIC VOLCANIC</b> Dark green to black green. Fine-grained. Massive. Local spinifex texture. Chloritic. Rare quartz-carbonate fracture-filling. Moderately soft to soft. Non-magnetic. Overall minor to 1% fine to medium-grained subhedral to anhedral, scattered pyrite. Locally up to 2% pyrite. 157.55 0.5cm quartz-calcite-chlorite stringer @ 30 dca. Lower contact (164.20), @ 65 dca.	108842 108843	152.00 163.00	153.50 164.20	1.50 1.20	.000 .000			
164.20	186.40		<b>PALE BROWN FELDSPAR PORPHYRY</b> <b>REDDISH BROWN FELDSPAR PORPHYRY.</b> Reddish brown to pinkish brown and grey to pale grey locally. Fine-grained matrix, with numerous 2-5mm zoned feldspar phenocrysts. Hydrofractured. Occasional to rare quartz-carbonate fracture-filling. Weak hematite alteration locally. Strongly silicified. Very hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. Locally up to 5% pyrite. 172.30 172.80 Mafic dyke. Medium grey-green. Massive. Rare quartz-carbonate veining. Minor very fine-grained scattered pyrite. Upper contact @ 65 dca and lower contact @ 55 dca. 172.80 185.00 Unit becomes grey to pale grey. Intensely hydrofractured and brecciated. Locally up to 5% pyrite. Lower contact (186.40), @ 55 dca.	108844 108845 108846 108847 108848 108849 108850 108851 108852 108853 108854 108855 108856 108857 108858	164.20 165.50 167.00 168.50 170.00 171.50 173.00 173.00 174.50 176.00 177.50 179.00 180.50 180.50 182.00 183.50 185.00 186.40	165.50 167.00 168.50 170.00 171.50 173.00 174.50 176.00 177.50 179.00 180.50 182.00 183.50 185.00 186.40	1.30 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.40	.000 .000 .000 .000 .000 .000 .030 .000 .000 .000 .030 .000 .000 .000 .030 .000 .000 .000			
186.40	195.55		<b>TALC-CHLORITE SCHIST</b> Dark green to black green. Fine-grained. Locally brecciated. Chloritic. Talcose. Occasional to rare quartz-carbonate fracture-filling and quartz-carbonate masses. Moderately soft to soft. Locally strongly magnetic. Overall minor to 1% fine to medium-grained subhedral to anhedral, scattered pyrite. Minor intermittent fault gouges. 193.65 1.5cm FAULT GOUGE @ 65 dca. 193.83 193.90 FAULT GOUGE. Upper contact @ 45 dca and lower contact @ 60 dca. 194.35 194.40 FAULT GOUGE. Upper contact @ 50 dca and lower contact @ 70 dca. 195.00 2cm FAULT GOUGE @ 70 dca. Lower contact (195.55), @ 65 dca.	108859	186.40	187.50	1.10	.000			
195.55	196.15		<b>FAULT ZONE</b> Gouge. Lower contact (196.15), @ 65 dca.								
196.15	206.95		<b>TALC-CHLORITE SCHIST</b> Similar to above. 196.82 1cm quartz-calcite stringer @ 70 dca. Lower contact (206.95), @ 50 dca.	108860	205.50	206.95	1.45	.000			
206.95	223.80		<b>BLEACHED MAFIC VOLCANIC</b> Pale green to pale olive green and greenish buff to yellowish buff locally. Very fine to fine-grained. Pillowed. Brecciated. Local 0.5-1.5cm, elongated varioles. 5-15% irregular and brecciated quartz-carbonate veining. Moderately to strongly sericitic locally. Moderately hard to hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. Locally and associated with bleached sections, up to 7% pyrite. Minor chalcopyrite locally. 215.45 215.85 Bleached breccia zone. Yellowish buff to greenish buff. Brecciated. 30-40% irregular and brecciated quartz-carbonate veining. Moderately to strongly sericitic. 10% very fine to fine-grained scattered pyrite. Upper contact @ 35 dca and lower contact @ 70 dca. 220.10 220.50 60% brecciated quartz-carbonate veining, with pale grey and medium green, mafic volcanic fragments. 10% very fine to fine-grained scattered pyrite. Both contacts brecciated. 222.75 223.80 50% pale purplish grey, irregular quartz feldspar porphyry inclusions. Lower contact (223.80), irregular @ approximately 40 dca.	108861 108862 108863 108864 108865 108866 108867 108868 108869 108870 108871 108872	206.95 208.50 210.00 211.50 213.00 213.00 214.50 214.50 216.00 217.50 219.00 219.00 220.50 220.50 221.50 221.50 222.50 222.50	208.50 210.00 211.50 213.00 214.50 216.00 217.50 219.00 220.50 221.50 222.50 223.80	1.55 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 1.00 1.00 1.30	.000 .000 .070 .000 .000 .620 .000 .000 .140 .270 3.255 .170			
223.80	227.30		<b>GREY-GREEN CARBONATE FRAGMENTAL UNIT.</b>	108873	223.80	225.00	1.20	.030			

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Length (m)	AU (g/t)	AU	AU (o/t)	AU
			Dark to medium grey-green. Fine-grained. Brecciated. Fragmental, with 40% quartz-carbonate, quartz feldspar porphyry and ultramafic fragments. 10% irregular and brecciated quartz-carbonate veining. Chloritic. Moderately hard to moderately soft. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite. Locally up to 3% pyrite. Lower contact (227.30), @ 50 dca.	108874 108875	225.00 226.30	226.30 227.30	1.30 1.00	.030 .100			
227.30	228.00		TALC-CHLORITE SCHIST Similar to above, but slightly fragmental and foliated @ 40-50 dca. Lower contact (228.00), @ 40 dca.	108876	227.30	228.50	1.20	.000			
228.00	233.63		FAULT ZONE Blocky and gougy talc chlorite schist, with intermittent fault gouges. Lower contact (233.63), @ 60 dca.								
233.63	235.00		TALC-CHLORITE SCHIST Similar to above. Lower contact (235.00), @ 45 dca.								
235.00	237.65		FAULT ZONE Similar to above. Lower contact (237.65), @ 55 dca.								
237.65	243.00		TALC-CHLORITE SCHIST Similar to above. 238.77 238.92 FAULT GOUGE. Upper contact @ 45 dca and lower contact @ 40 dca. Lower contact (243.00), @ 55 dca.								
243.00	251.25		FAULT ZONE Blocky talc chlorite schist, with intermittent gougy sections and 1m of ground and missing core. Lower contact (251.25), @ 55 dca.								
251.25	260.70		TALC-CHLORITE SCHIST Similar to above. 251.70 252.30 Spinifex texture. 257.70 3cm quartz-calcite stringer @ 70 dca. Lower contact (260.70), @ 25 dca.								
260.70	262.00		FAULT ZONE Blocky and gougy talc chlorite schist. Lower contact (262.00), @ 30 dca.								
262.00	276.45		TALC-CHLORITE SCHIST Similar to above. 272.30 2cm FAULT GOUGE @ 50 dca. 272.85 273.00 FAULT GOUGE. Upper contact @ 55 dca and lower contact @ 60 dca. Lower contact (276.45), @ 55 dca.	108877 108878	273.50 275.00	275.00 276.45	1.50 1.45	.070 .070			
276.45	317.00		MIXED CARBONATE ZONE MOTTLED UNIT. Medium grey-green to pale grey-green and locally pale emerald green to grey and dark grey-green. Fine-grained. Mottled texture. Brecciated. Fragmental, with 10-20% mafic and ultramafic volcanic fragments. Locally foliated @ 50-65 dca. Carbonatized. Very weakly fuchsite locally. Chloritic locally. 15-20% irregular quartz-carbonate veining. Locally siliceous. Moderately hard to moderately soft. Non-magnetic. Overall 2-3% and locally 5-7%, fine to medium-grained subhedral to anhedral scattered pyrite. 287.00 6cm quartz-calcite stringer @ 80 dca. 296.94 2.5cm quartz-calcite stringer @ 60 dca. 299.60 307.50 Weak to moderate fuchsite alteration. Both contacts gradual. 302.26 1.5cm quartz-calcite stringer @ 40 dca. 305.80 306.10 Quartz-calcite vein. Rare chlorite fracture-filling. 5% fracture-filling pyrite. Upper contact irregular @ approximately 50 dca and lower contact irregular @ approximately 15 dca. 308.28 2cm quartz-calcite stringer @ 60 dca. 311.45 311.85 Quartz-calcite vein. Occasional chlorite fracture-filling. 5% fracture-filling, fine-grained pyrite. Upper contact @ 20 dca and lower contact @ 30 dca. 312.45 312.70 Local sericite alteration. Lower contact (317.00), gradual.	108879 108880 108881 108882 108883 108884 108885 108886 108887 108888 108889 108890 108891 108892 108893 108894 108895 108896 108897 108898	276.45 277.50 279.00 280.50 282.00 283.50 285.00 286.50 288.00 289.50 291.00 292.50 294.00 295.50 297.00 298.50 299.50 300.00 301.50 303.00 304.50 305.50	277.50 279.00 280.50 282.00 283.50 285.00 286.50 288.00 289.50 291.00 292.50 294.00 295.50 297.00 298.50 300.00 301.50 303.00 304.50 305.50	1.05 1.50 1.00	.070 .000 .030 .050 .030 .030 .070 .000 .070 .070 .030 .070 .140 .135 .170 .380 .270 .340 .740 .380			

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Length (m)	AU (g/t)	AU	AU (o/t)	AU	
		V V		108899	305.50	307.00	1.50	.340				
		V V		108900	307.00	308.50	1.50	.070				
		V V		108901	308.50	310.00	1.50	.450				
		V V		108902	310.00	311.45	1.45	.120				
		V V		108903	311.45	312.50	1.05	.550				
		V V		108904	312.50	314.00	1.50	.310				
		V V		108905	314.00	315.50	1.50	.310				
		V V		108906	315.50	317.00	1.50	.030				
317.00	338.85		TALC-CHLORITE SCHIST Similar to above. Unit foliated locally @ 40-60 dca. 329.75 330.00 FAULT GOUGE. Upper contact @ 30 dca and lower contact @ 40 dca. 331.75 332.00 FAULT GOUGE. Upper contact @ 60 dca and lower contact @ 50 dca. 338.60 2cm FAULT GOUGE @ 70 dca. Lower contact (338.85), brecciated.	108907	317.00	318.50	1.50	.070				
				108908	337.50	338.85	1.35	.030				
338.85	346.80		GREY FELDSPAR PORPHYRY Grey to pale grey. Numerous 2-3mm white feldspar phenocrysts. Occasional quartz-carbonate fracture-filling. Locally chloritic. Siliceous. Moderately hard to hard. Non-magnetic. Overall 2-3% very fine to fine-grained scattered pyrite. Locally up to 5% pyrite. Lower contact (346.80), @ 30 dca.	108909	338.85	340.00	1.15	.100				
				108910	340.00	341.50	1.50	.170				
				108911	341.50	343.00	1.50	.000				
				108912	343.00	344.50	1.50	.000				
				108913	344.50	345.50	1.00	.000				
				108914	345.50	346.80	1.30	.070				
346.80	349.80		TALC-CHLORITE SCHIST Similar to above. 346.80 347.10 Strongly silicified section, due to adjacent grey feldspar porphyry. Lower contact @ 70 dca. Lower contact (349.80), @ 50 dca.	108915	346.80	348.00	1.20	.000				
				108916	348.00	349.50	1.50	.030				
349.80	351.65		FAULT ZONE Gouge with blocky talc chlorite schist. 50cm missing core. Lower contact (351.65), @ 65 dca.									
351.65	353.65		TALC-CHLORITE SCHIST Similar to above. Lower contact (353.65), @ 60 dca.	108917	352.50	353.65	1.15	.000				
353.65	381.90		MIXED CARBONATE ZONE FRAGMENTAL UNIT. Grey to pale grey-green, pale olive green and pale emerald green locally. Fine-grained. Brecciated. Locally foliated @ 40-70 dca. Fragmental, with 5-10% quartz feldspar porphyry, mafic and ultramafic fragments. Weak to moderate fuchsite and sericite alteration locally. 15-20% irregular and brecciated quartz-carbonate veining. Moderately hard to moderately soft. Non-magnetic. Overall 2-3% fine to medium-grained subhedral to anhedral, scattered pyrite. Locally up to 5% pyrite. 364.83 1.5cm quartz-calcite stringer @ 25 dca. 377.45 378.00 Quartz-calcite vein. Brecciated. Occasional sericite fracture-filling. Rare chlorite fracture-filling. 5% fine-grained, fracture-filling pyrite. Upper contact @ 40 dca and lower contact @ 55 dca. 378.10 380.30 Altered and brecciated unit. Carbonatized and feldspathized mafic volcanic (?). Pale brownish buff to yellowish buff. Weakly to moderately sericitic. Common quartz feldspar porphyry and ultramafic clasts. Local black phenocrysts. Moderately hard to hard. Non-magnetic. Overall 4-5% fine to medium-grained subhedral to anhedral, scattered pyrite. Upper contact @ 40 dca and lower contact brecciated. 380.70 381.00 Brecciated and feldspathized unit. Yellowish brown. Fine-grained. Sericitic. 15% fine to medium-grained subhedral to anhedral, scattered pyrite. Upper contact @ 40 dca and lower contact @ 45 dca. 381.20 382.50 Brecciated and feldspathized unit. Similar to above. Upper contact @ 50 dca and lower contact @ 65 dca. Lower contact (381.90), @ 40 dca.	108918	353.65	355.00	1.35	.000				
				108919	355.00	356.50	1.50	.000				
				108920	356.50	358.00	1.50	.000				
				108921	358.00	359.50	1.50	.000				
				108922	359.50	361.00	1.50	.000				
				108923	361.00	362.50	1.50	.000				
				108924	362.50	364.00	1.50	.000				
				108925	364.00	365.50	1.50	.000				
				108926	365.50	367.00	1.50	.030				
				108927	367.00	368.50	1.50	.000				
				108928	368.50	370.00	1.50	.030				
				108929	370.00	371.50	1.50	.000				
				108930	371.50	373.00	1.50	.000				
				108931	373.00	374.50	1.50	.000				
				108932	374.50	376.00	1.50	.000				
				108933	376.00	377.45	1.45	.030				
				108934	377.45	378.50	1.05	.100				
				108935	378.50	380.00	1.50	.070				
				108936	380.00	381.00	1.00	.070				
				108937	381.00	381.90	.90	.070				
381.90	384.00		ARGILLITE-GREYWACKE SERICITIC SEDIMENTS. Brownish grey. Fine-grained. 40% ARGILLITE bands, @ 30-50 dca. Weakly to moderately sericitic. 10% irregular quartz-carbonate veining. Moderately hard to moderately soft. Non-magnetic. Overall 2-3% fine to medium-grained subhedral to anhedral, scattered pyrite. Locally up to 5%	108938	381.90	383.00	1.10	.000				
				108939	383.00	384.00	1.00	.070				

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngh (m)	AU (g/t)	AU	AU (o/t)	AU
384.00	512.75		pyrite. 383.75 1cm quartz-calcite stringer @ 55 dca. Lower contact (384.00), @ 60 dca.								
			TUFFACEOUS PYROCLASTIC								
			Grey to pale greenish grey. Fine to medium-grained. Bedded @ 40-50 dca. 5-10% elongated mafic, felsic and ultramafic clasts. Rare quartz-carbonate stringers. Locally sericitic and feldspathized. Moderately hard to hard. Non-magnetic. Overall 2-3% and locally up to 5%, very fine to fine-grained fracture-filling pyrite.	108940	384.00	385.50	1.50	.000			
				108941	385.50	387.00	1.50	.000			
				108942	387.00	388.50	1.50	.000			
				108943	388.50	390.00	1.50	.070			
				108944	390.00	391.50	1.50	.000			
				108945	391.50	393.00	1.50	.030			
				108946	393.00	394.50	1.50	.000			
				108947	394.50	396.00	1.50	.000			
				108948	396.00	397.50	1.50	.000			
				108949	397.50	399.00	1.50	.000			
				108950	399.00	400.50	1.50	.000			
				108951	400.50	402.00	1.50	.070			
				108952	402.00	403.50	1.50	.000			
				108953	403.50	405.00	1.50	.000			
				108954	405.00	406.50	1.50	.000			
				108955	406.50	408.00	1.50	.000			
				108956	408.00	409.50	1.50	.000			
				108957	409.50	411.00	1.50	.000			
				108958	411.00	412.50	1.50	.000			
				108959	412.50	414.00	1.50	.000			
				108960	414.00	415.50	1.50	.000			
				108961	415.50	417.00	1.50	.000			
				108962	417.00	418.50	1.50	.000			
				108963	418.50	420.00	1.50	.000			
				108964	420.00	421.50	1.50	.070			
				108965	421.50	423.00	1.50	.070			
				108966	423.00	424.50	1.50	.000			
				108967	424.50	426.00	1.50	.000			
				108968	426.00	427.50	1.50	.000			
				108969	427.50	429.00	1.50	.000			
				108970	429.00	430.50	1.50	.000			
				108971	430.50	432.00	1.50	.000			
				108972	432.00	433.50	1.50	.030			
				108973	433.50	435.00	1.50	.070			
				108974	435.00	436.50	1.50	.000			
				108975	436.50	438.00	1.50	.000			
				108976	438.00	439.50	1.50	.000			
				108977	439.50	441.00	1.50	.000			
				108978	441.00	442.50	1.50	.000			
				108979	473.00	474.50	1.50	.000			
				108980	474.50	476.00	1.50	.000			
				108981	476.00	477.50	1.50	.000			
				108982	477.50	479.00	1.50	.000			
				108983	479.00	480.50	1.50	.000			
				108984	480.50	482.00	1.50	.000			
				108985	482.00	483.15	1.15	.000			
				108986	483.15	484.50	1.35	.000			
				108987	484.50	486.00	1.50	.030			
				108988	486.00	487.50	1.50	.000			
				108989	487.50	488.50	1.00	.000			
				108990	488.50	489.50	1.00	.000			
				108991	489.50	490.70	1.20	.030			
				108992	490.70	492.00	1.30	.000			
				108993	492.00	493.40	1.40	.000			
				108994	493.40	494.50	1.10	.030			
				108995	494.50	496.00	1.50	.000			
				108996	496.00	497.50	1.50	.000			
				108997	497.50	499.00	1.50	.030			
				108998	499.00	500.50	1.50	.000			
				108999	500.50	502.00	1.50	.000			
				109000	502.00	503.50	1.50	.000			
				108071	503.50	505.00	1.50	.000			
				108072	505.00	506.50	1.50	.000			



Date: 20 Apr, 1999

ST. ANDREW GOLDFIELDS LTD.  
DIAMOND DRILL RECORDHole No: S98-15  
Page: 7 of 7

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Length (m)	AU (g/t)	AU	AU (o/t)	AU
634.10	641.80		<p>ARGILLITE-GREYWACKE Grey to pale grey. Fine-grained. Bedded @ 50-65 dca. Rare quartz-carbonate veining. Moderately hard to hard. Non-magnetic. Overall 1-2% fine to medium-grained anhedral to subhedral pyrite. Locally up to 3% pyrite.</p> <p>634.85 635.00 Talc chlorite schist inclusion. Upper contact @ 70 dca and lower contact @ 70 dca.</p> <p>635.30 636.13 Talc chlorite schist inclusion. Similar to above. Upper contact @ 65 dca and lower contact @ 65 dca.</p> <p>639.05 4.5cm quartz-calcite stringer @ 25 dca.</p> <p>Lower contact (641.80), @ 60 dca.</p>								
641.80	647.25		<p>CONGLOMERATE Grey to pale grey. Fine-grained groundmass. Numerous 5-7mm and locally 1-1.5cm, clasts of different compositions. Bedded @ 50-60 dca. Rare quartz-carbonate veining. Moderately hard to moderately soft. Non-magnetic. Overall 1-2% very fine to fine-grained scattered pyrite.</p> <p>Lower contact (647.25), @ 60 dca.</p>								
647.25	698.00		<p>ARGILLITE-GREYWACKE Similar to above.</p> <p>647.80 650.60 CONGLOMERATE. Similar to above, but 0.5-3cm clasts. Occasional massive sections. Upper contact @ 70 dca and lower contact @ 30 dca.</p> <p>667.95 670.10 Pale grey CONGLOMERATE, with occasional elongated clasts. Weak sericite alteration. Upper contact @ 40 dca and lower contact @ 45 dca.</p> <p>668.04 5cm quartz-calcite stringer @ 30 dca.</p>								
698.00			<p>END OF HOLE CORE STORED ON STOCK MINE PROPERTY.</p>								



Ontario

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)

W9960.00181

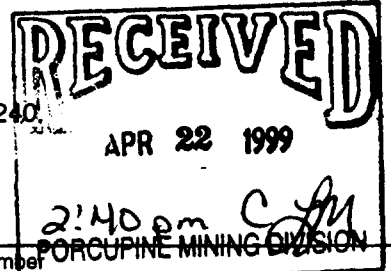
Assessment Files Research Imaging



42A10SW2016 2.19478 STOCK

900

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



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)

Form with fields for Name, Address, Client Number, Telephone Number, Fax Number. Includes a RECEIVED stamp: 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: Surface Diamond Drilling S98-15. Office Use: Commodity, Total \$ Value of Work Claimed (44,479), NTS Reference, Mining Division (Porcupine), Resident Geologist District (Timmins). Dates Work Performed: 19 05 98 To 01 06 98. Township/Area: Stock. M or G-Plan Number: G-3248.

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.

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

Form with fields for Name, Address, Telephone Number, Fax Number. Includes handwritten number 2.19478.

4. Certification by Recorded Holder or Agent

I, Kian A. Jensen, 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: Kian Jensen. Date: April 21/99. Agent's Address: RR#2, Matheson, Ontario P0K 1N0. Telephone Number: 705-273-2525. Fax Number: 705-273-3333.



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.

W996-00181

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
100320 N1/2 L8 C1 Lease#104881-2	160	\$ 44,479.31			\$ 44,479.31
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
<b>Column Totals</b>		<b>\$ 44,479.31</b>			<b>\$ 44,479.31</b>

2.19478

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1030  
APR 23 1999  
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I, Kian A. Jensen, 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: Kian A. Jensen Date: 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	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

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

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	698 M	\$ 59.78	\$ 41,728.31
Geologist	3 Days	\$ 200.00	600.00
Corecutting	3 Days	\$ 108.00	324.00
Assays	174 Samples	\$ 10.50	1,827.00
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
<i>2.19478</i>			
<b>Transportation Costs</b>			
<b>Food and Lodging Costs</b>			
<b>Total Value of Assessment Work</b>			<b>\$ 44,479.31</b>

**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 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 <i>Kian Jensen</i>	Date <i>April 21/99</i>
---------------------------------	----------------------------

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

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

May 31, 1999

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

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.19478

**Status**

**Subject: Transaction Number(s):** W9960.00181 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 Lucille Jerome by e-mail at [lucille.jerome@ndm.gov.on.ca](mailto:lucille.jerome@ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,



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

# Work Report Assessment Results

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**Submission Number:** 2.19478

**Date Correspondence Sent:** May 31, 1999

**Assessor:** Lucille Jerome

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9960.00181	104881-2	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

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REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

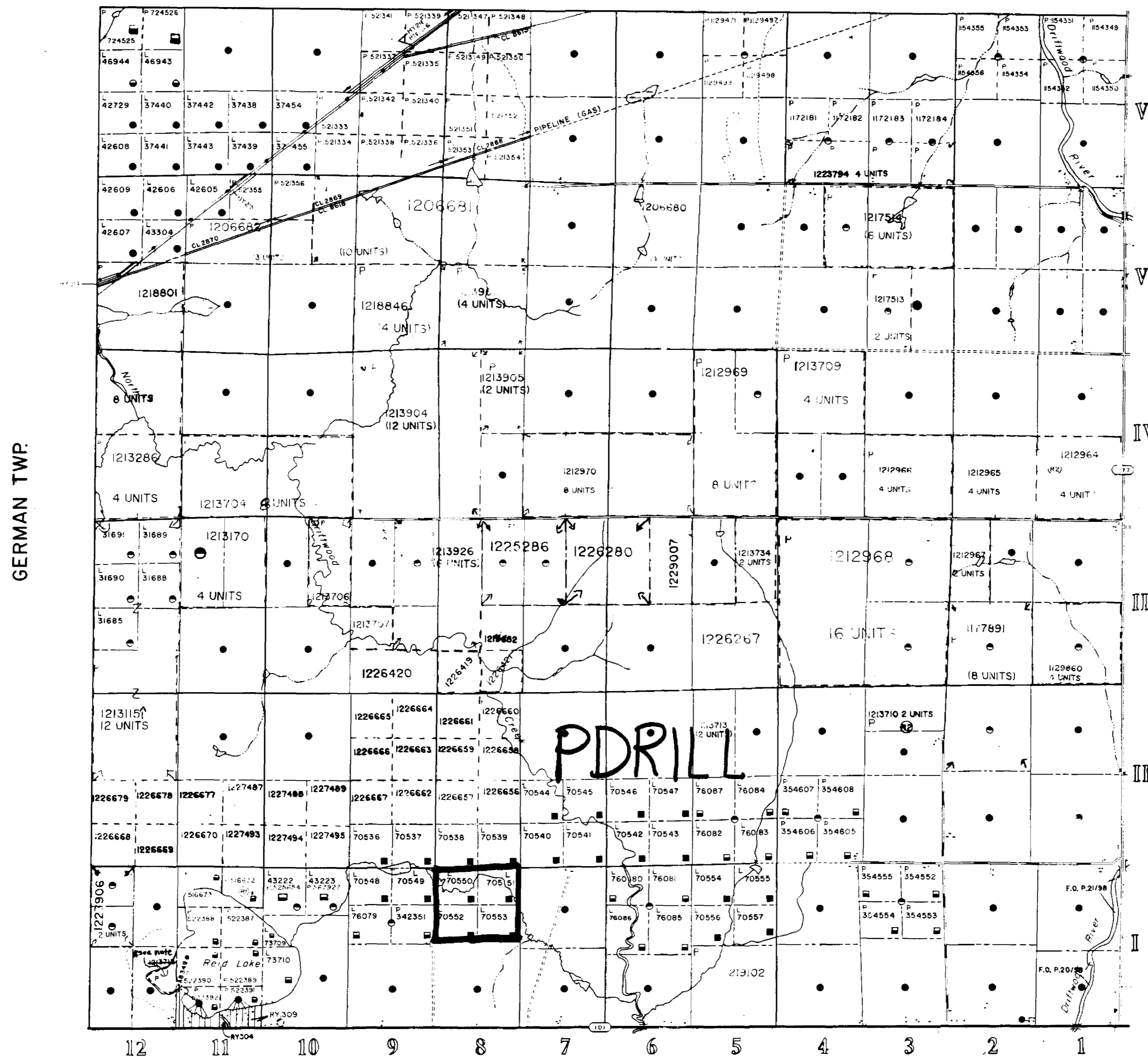
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R) Reserve for recreational purposes under Sec 3 P.L.A.			S.R.O.	108543
(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.



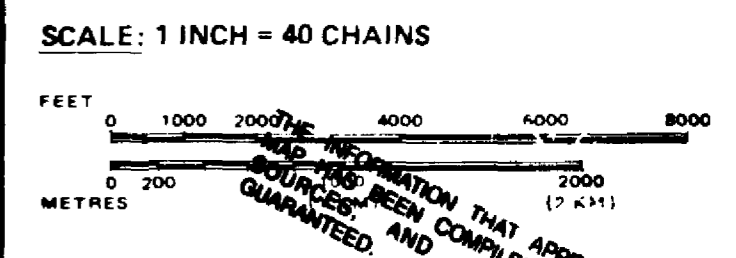
LEGEND

- 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 MUSKIEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

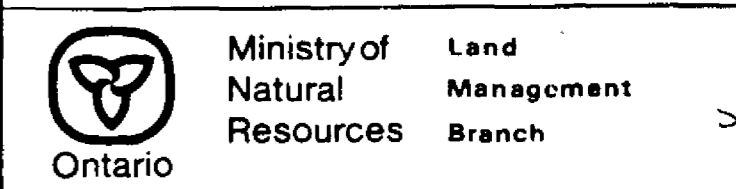
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◑
" MINING RIGHTS ONLY	◒
LICENCE OF OCCUPATION	⋄
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63 SUBSEC. 1.

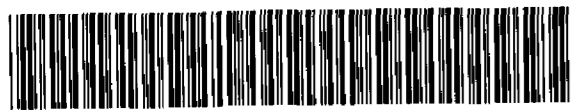


THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

JUN 8 1999  
 STOCK  
 M.N.R. ADMINISTRATIVE DISTRICT  
 TIMMINS  
 MINING DIVISION  
 PORCUPINE  
 LAND TITLES / REGISTRY DIVISION  
 COCHRANE

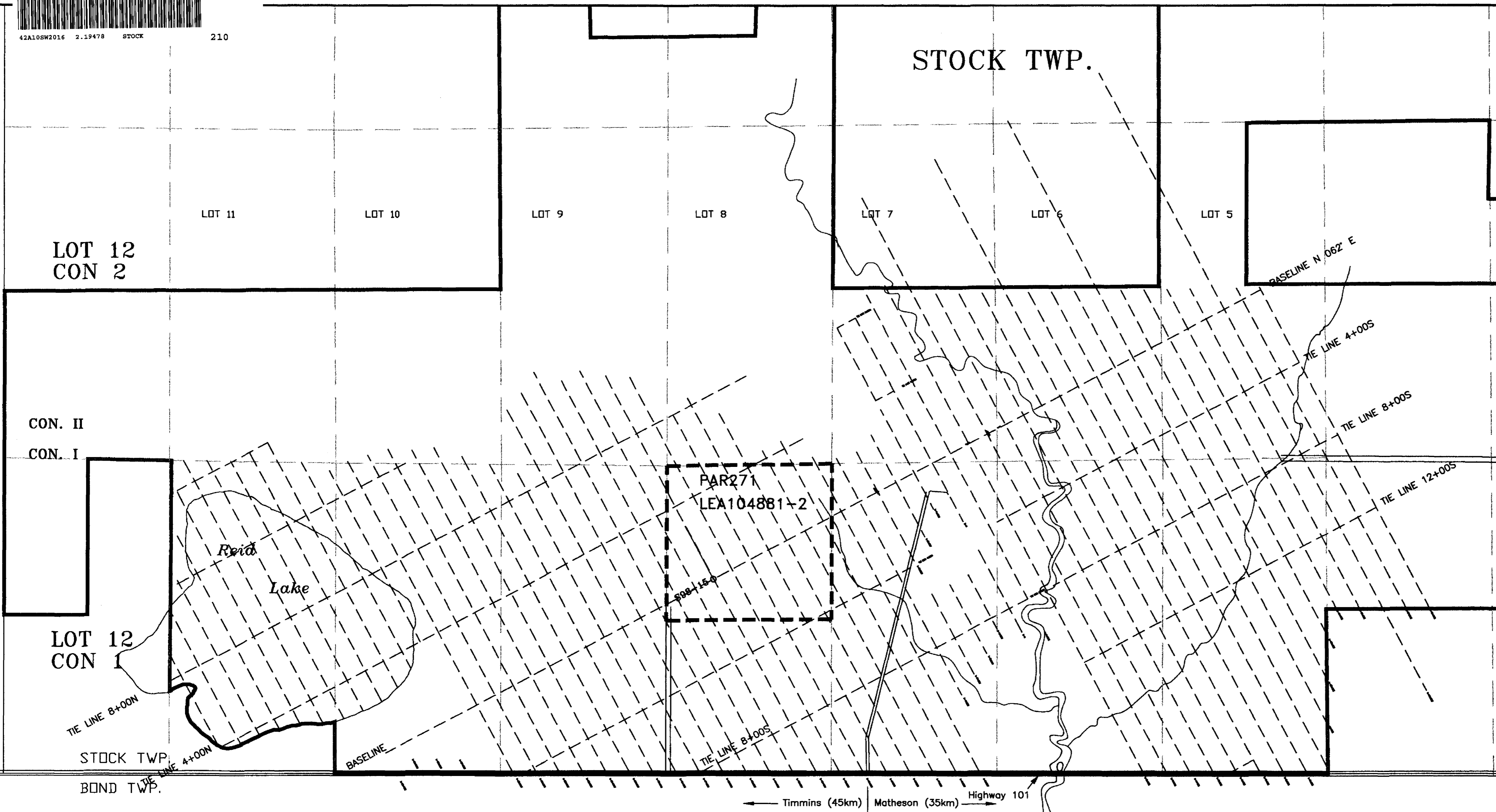


Date MARCH, 1985  
 Number G-3248  
 ACTIVATED APR. 25 1985



42A10SW2016 2.19478 STOCK 210

# STOCK TWP.



## LEGEND

- DDH: location & hole number
- Mine buildings
- Property boundary

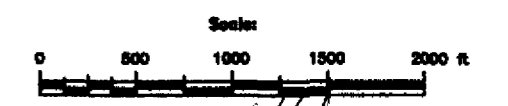
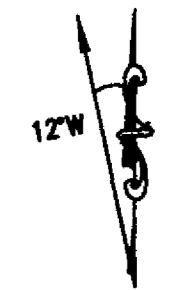
Leased claims: Stock Township:  
 Source of assessment work:  
 N1/2, LOT 8, CON 1  
 Leased Claim L-70552, Parcel 271  
 Lease Number 104881-2

DDH S98-15 is located approx. 1846.2 feet south and 1881.1 feet west of the NE corner of the N1/2 of Lot 8, Concession 1

Collar at Line 12+00 West 0+00 South  
 DDH S98-15 Azi=332° Dip=-68°

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 APR 23 1999  
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2.19478

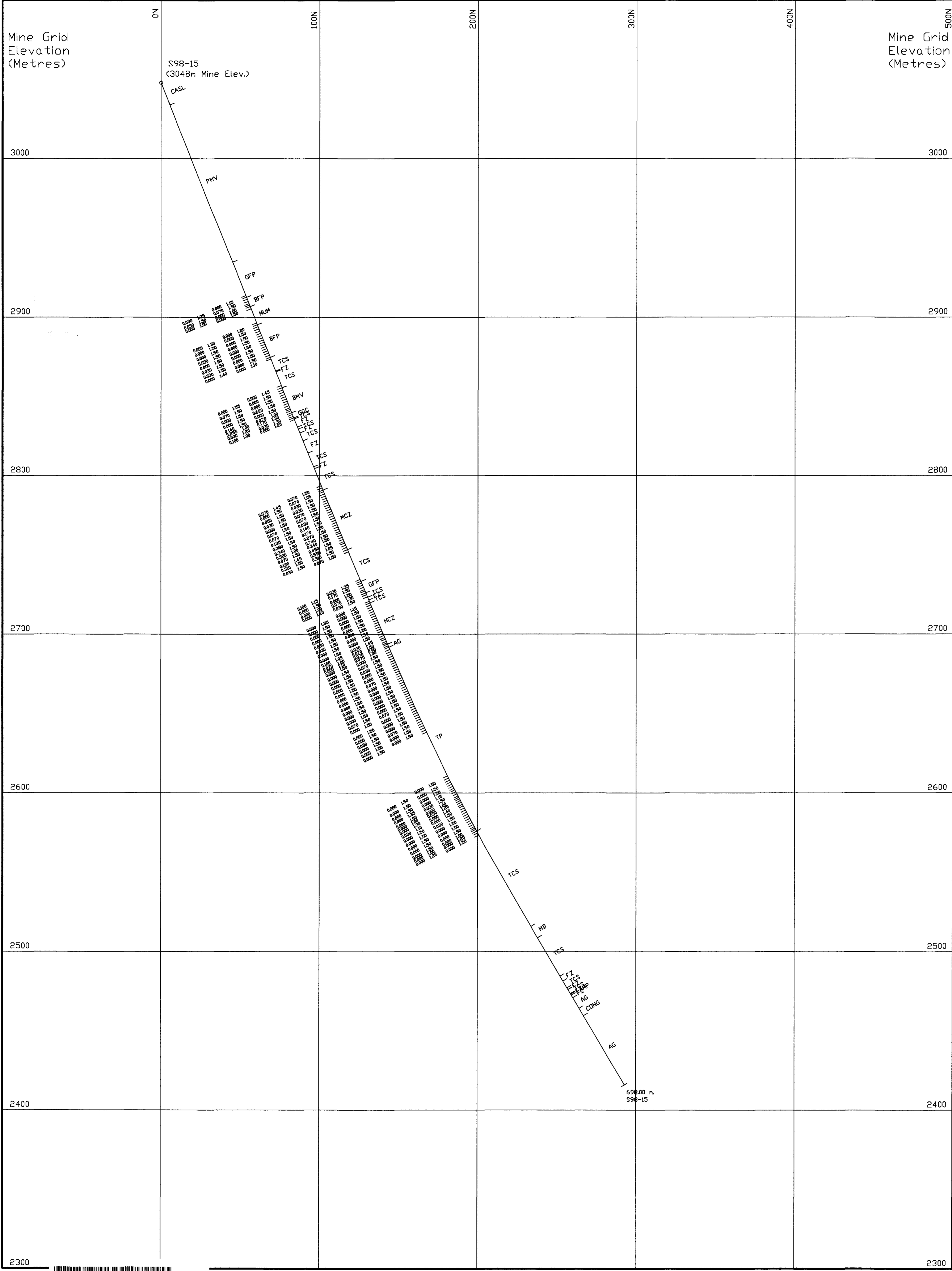


*[Signature]*

Stock Mine  
 Plan View: DDHs S98-15

FILE NAME: STK-Plan-S98-15 DATE: April 19, 1999

← Timmins (45km) Matheson (35km) Highway 101 →



**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

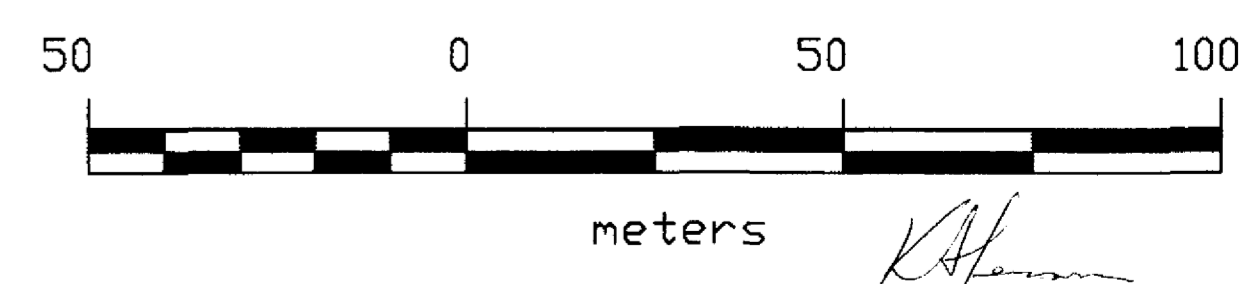
Leased claims: Stock Township:  
 Source of assessment work:  
 N1/2, LOT 8, CON I  
 Leased Claim L-70552 Parcel 271  
 Lease Number 104881-2

DDH S98-15 is located approx. 1846.2 feet south and 1881.1 feet west of the NE corner of the N1/2 of Lot 8, Concession I

Collar at Line 12+00 West 0+00 South  
 DDH S98-15 Azi=332° Dip=-68°

Hole Collar in North 1/2, Lot 8, Concession I with 698.0 metres within Lot

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 APR 23 1999  
 GEOSCIENCE ASSESSMENT  
 ONTARIO



DDH S98-15 (Looking N 242 °E)

FILE NAME: S98-15.dwg DATE: April 16, 1999

