2.20634

Date: 6 Dec, 1999

ST. ANDREW GOLDFIELDS LTD.
DIAMOND DRILL RECORD

REF CORD: .00 -1000.00 | CLAIM NUM: | TOWNSHIP: STOCK | PROVINCE: ONTARIO | HOLE NO: S98-18

LOCATION 1: 0+00 10+00W | GRID 1: 1996: METRIC | ELEV 1: 3332.00 | PROPERTY: STOCK

LOCATION 2: | GRID 2: | ELEV 2: | PROJECT: STOCK WEST

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

AZIMUTH: 332.0 Deg. | LENGTH: 585.0 m | SECTION: 10+00W | LOGGED BY: S. NADEAU

DIP: -65.0 Deg. | CORE SIZE: NQ | SYSTEM OF MEASURE: METRIC | DATE LOGGED: 9-16 DEC 1998

STARTED: 9 DEC 98 | COMPLETED: 16 DEC 98 | NTS: | DRILLED BY: DOMINIK DIAMOND DRILLING LTD

PURPOSE: drill between S98-14 and S98-15 | ASSAY TYPE: FA | RIG:

COMMENTS: drill 100m West of S98-14, along L10W | TEST METHOD: TROPARI | PROJECT SUPERVISOR: K.A. JENSEN

Kian Jensen.

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
50.00	347.00	-64.0	201.00	343.00	-63.0	354.00	348.00	-61.0	504.00	348.00	-56.0
102.00	348.00	-63.0	250.00	344.00	-62.0	399.00	340.00	-61.0	552.00	393.00	-56.0
150.00	330.00	-63.0	306.00	343.00	-61.0	453.00	345.00	-58.0	585.00	346.00	-54.0

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU
.00	43.00		CASING LEFT IN THE HOLE						
43.00	55.50		PILLOWED MAFIC VOLCANIC Mafic to intermediate volcanic, andesitic ?. Medium green to pale green, local patches of pale green bleaching at pillow rims & around stringers & also around amygdules. Black chlorite replacing pillow selvages locally brecciated. Fractures of green chlorite & purple hematite 1% 1mm pyritealong some fractures. Fine-grained but medium-grained in center of flows. Black 1mm chlorite after amphb, interstitial 1mm beige albite, homogeneous greenish groundmass. Moderately soft. None magnetic. Overall 1% pyritedissiminated in quartz-ankerite and late chlorite stringers fractures. 1% 1-3MM quartz-ankerite stringer at 40 drill core angle, late quartz-ankerite stringer at 10 drill core angle & volcanic fragments 44.15 quartz-ankerite stringer at 65 drill core angle. 45.20 Quartz-ankerite stringer at 15 drill core angle, volcanic fragments. 54.00 54.08 DIABASE. Dark grey to black. Fine-grained but medium-grained in center. Moderately hard. Weakly magnetic. 1x3cm pillow mafic volcanic fragments, 3mm bleaching zone pale green along upper & lower contacts. Upper contact at 70 drill core angle, core broken. Lower contact at 65 drill core angle 55.45 1cm quartz-ankerite stringer at 50 drill core angle, core broken.						
55.50	63.60		GREY FELDSPAR PORPHYRY Pale grey green along upper contact & lower contact over 20cm to buff in center, pinkish as density of chlorite-quartz-ankerite stringers increases. Fine-grained to medium-grained white 1-2mm feldspar subeuhedral in fine-grained matrix. Not magnetic. Hard. Foliation at 55 drill core angle 57.50 60.25 Pink stringers at 50 drill core angle with 1-10mm pinkish rims. 60.25 60.90 Buff to green matrix with green chlorite stringers at 65-75 drill core angle. 60.90 63.10 Pink Feldspar porphyry with 15% Chlorite stringers & local brecciation 61.2 61.50 due to green & black chlorite stringers of variable direction at 25-45 drill core angle. 30 % breccisted feldspar porphyry fragments in 1-2cm chlorite stringers. 55.50 57.00 Grey feldspar porphyry, 1% quartz-ankerite stringer at 60 & 5 drill core angle,chlorite stringers at 25 drill core angle,1% dissiminated pyrite. 57.00 58.50 Grey feldspar porphyry, 2% quartz-ankerite chlorite stringer at 35 & 50 drill core angle,0.5% pyrite. 58.50 60.00 Grey feldspar porphyry, 10% quartz-ankerite chlorite stringer at 45 drill core angle,0.5% pyrite. 60.00 61.20 Grey feldspar porphyry, 5% chlorite quartz-ankerite stringer at 40 drill core angle, 0.5% dissiminated pyrite. 61.20 62.00 Grey feldspar porphyry, 10% chlorite quartz-ankerite stringers at 40 drill core angle 62.00 63.60 Grey feldspar porphyry, 2% quartz-ankerite stringers at 45 drill core angle.	845935 845936 845937 845938 845939 845940	55.50 57.00 58.50 60.00 61.20 62.00	57.00 58.50 60.00 61.20 62.00 63.60	1.50 1.50 1.50 1.20 .80 1.60	.000 .000 .000 .000 .000 .000		

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
63.60	92.85		PILLOWED MAFIC VOLCANIC Similar to above. Pale green to black at pillow selvages. 66.50 Pillow contact intruded by 3MM quartz-ankerite stringer at 40 drill core angle, core broken late white quartz-ankerite stringer at 35-40 & 85 drill core angle, late black chlorite stringers 35 & 70 drill core angle. 74.60 Pillow contacts with foliation shown by green banding & amygdules at 40 drill core angle, core broken along contact. 77.27 Pillow contact broken & intruded by 1cm quartz-ankerite stringer at 70 drill core angle parallel to foliation. 80.30 Pillow selvages with purple quartz & open voids filled by milky white quartz, 2-3% dissiminated 1-2mm cubic pyrite between pyroclastic fragments. 82.20 84.00 Pillow mafic volcanic core broken in slabs. 80.80 Quartz-ankerite stringer at 80 drill core angle. 81.15 2mm quartz-ankerite stringer at 35 drill core angle. 85.80 Quartz-ankerite stringers at 20 drill core angle variably brecciated, and branching of quartz-ankerite stringer', 30% mafic volcanic fragments.								
92.85	94.30		DIABASE Dark green to black. Fine to medium-grained. Massive. Moderately hard weakly magnetic, local brecciation and mafic volcanic fragments, 1% pyrite. 93.05 93.40 Network of late quartz-ankerite stringer at 45 & 60 drill core angle.								
94.30	98.65		PILLOWED MAFIC VOLCANIC Pale green to olive. Fine-grained. Moderately hard. Non magnetic. Overall 2-5% 1-5mm quartz stringers at 50 & 70 drill core angle. Late chlorite filling in fractures. 0.5% very fine-grained pyrite.								
98.65	101.15		DIABASE Medium to pale grey. Pale green at upper chilled margin. Fine-grained. Massive. Moderately magnetic. Moderately hard. Late quartz calcite stringers at 75 drill core angle. From 100.00 101.15 core broken.								
101.15	103.45		GREY QUARTZ FELDSPAR PORPHYRY Dark grey but pale grey to buff near upper contact and along stringers 101.16 101.51 Buff and black banding at 60 drill core angle near upper contact 3-20 mm buff bands and 1-3mm black. Weak dark green and dark grey banding near lower contact. Fine-grained near upper and lower contact to medium grained in center of porphyry. 1-2 mm white cream subeuhedral feldspar interstitial grey quartz in grey to buff fine-grained matrix. Hard. Non Magnetic. 1 to 5% quartz-calcite stringers. About 25% of quartz-calcite stringers at 65-75 drill core angle and parallel to foliation are rimmed by 1-3 mm buff sericite alteration. Other quartz-calcite stringers without rims Late chlorite veins at 40 drill core angle cutting foliation, within quartz calcite stringers and pervasive <1mm stringers in matrix. 1 % dissiminated very fine to fine-grained pyrite in matrix and locally along some stringers. 101.85 0.5 cm quartz-calcite stringers with 2mm rims of buff alteration and <1mm buff stringers anastamosing from the larger one. 103.45 103.52 PMV foliated at 80 drill core angle intruded by 1-5MM quartz ankerite stringers at 75 drill core angle variable, core broken at upper & lower contact. 101.16 102.00 Grey quartz feldspar porphyry, sericite alteration, 3-5% quartz calcite stringers, 1% pyrite. 102.00 103.30 Grey quartz feldspar porphyry, 2-5% quartz calcite stringers, 1% dissiminated pyrite.	845976 845977	101.16 102.00	102.00 103.30	.84 1.30	.010 .010			
103.45	105.28		GREY QUARTZ FELDSPAR PORPHYRY Grey green, to pink. Coarse-grained quartz feldspar porphyry, upper contact at 75 drill core angle variable. Upper contact is more greenish more pinkish at lower contact. Very hard. Non magnetic. 1-5mm white rounded & lath feldspar greenish core, 1-2mm GREY Q, interst 1mm green chlor in beige matrix 1% dissiminated 1mm PYR, 2% CCV'stringers at 60, 30 & 20 drill core angle and approximately at 0 drill core axis with dissiminated 1mm pyrite along fractures, 1-10mm sericitic alteration along chlorite stringers at 75 drill core angle, calcite stringers along upper & lower contact at 60 drill core angle. 103.50 105.28 Quartz feldspar porphyry, 1% calcite stringers, 1% dissiminated pyrite, K alteration.	845901	103.50	105.28	1.78	.000			
105.28	106.60		PILLOWED MAFIC VOLCANIC Pale green and black to purple along pillow selvage. Fine-grained. Moderately hard. Not magnetic except at pillow selvage. 105.52 2.5cm green quartz feldspar porphyry intruding pillow volcanic at 50 drill core angle, 1-2mm white feldspar, greenish fine-grained matrix.								

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU
106.60	124.95		QUARTZ FELDSPAR PORPHYRY Brown to reddish porphyry. 1-7MM feldspar, locally buff between 116.0 117.5 along quartz stringers network, stringers at 55 drill core angle, silicification, bleached & brecciated at 116.5 117.5, 1-2mm albite along quartz stringers, mostly 1-2% calcite stringers & chlorite stringers between 106.62 114.32 predominantly 1-10% quartz stringers & minor calcite stringers between 114.62 119.0 <0.2% 1mm dissiminated pyrite in matrix & along chlorite stringers pink around black grey chlorite calcite stringers at 15 drill core angle, not along calcite stringers at 80 drill core angle. 107.50 Chlorite alteration at 10 drill core angle, fine-grained breccia of quartz feldspar porphyry, minor sericitic alt. 117.55 118.90 15% calcite stringers along core axis, core broken in slabs. 114.32 114.62 Green grey, medium-grained pillow volcanic. Chloritized pillow selvage along upper contact at 80 drill core angle, core broken. 1mm Chloritic crystals after pyroxene. 116.00 10cm sericitic alteration around parallel 1mm quartz stringers at 55 drill core angle. 116.00 119.00 Intense hydrofracturing with 1mm quartz stringers at 15 & 70 drill core angle. 116.50 117.37 Intense silicification & sericite alteration, 1% dissiminated pyrite. 117.55 118.90 Calcite stringers along core axis with core broken in slabs. Buff bleaching along silicification zones and quartz stringers network. 120.00 Late 1mm chlorite ankerite filling fracture at 15 drill core angle. 120.10 Late 5MM clorite filling fracture at 15 drill core angle, also at 121.62. 106.60 108.00 Quartz feldspar porphyry, 1% calcite stringers, 1% chlorite stringers, 1% dissiminated pyrite, K alteration. 108.00 109.50 Quartz feldspar porphyry, 0.5% calcite stringers, 1% dissiminated pyrite, K alteration. 109.50 111.00 Quartz feldspar porphyry, 0.2% calcite stringers, 1% dissiminated pyrite, K alteration. 111.00 112.50 Quartz feldspar porphyry, 1% chlorite calcite stringers, sericitic ALT, K alteration. 112.50 114.00 Quartz feldspar porphyry, 1% chlorite calcite stringers, sericitic ALT, K alteration. 114.00 115.50 Quartz feldspar porphyry, 30cm pillow volcanic, 1% quartz calcite stringer, K alteration. 115.50 116.50 Quartz feldspar porphyry, 10% quartz stringers, 15% sericitic & K alteration. 116.50 117.60 Quartz feldspar porphyry, 50% quartz stringer silicif, 20% sericitic & K alteration 117.60 119.00 Quartz feldspar porphyry, 10% quartz calcite stringers, 2% sericitic & K alteration 119.00 120.50 Quartz feldspar porphyry, 1% quartz stringers, K alteration. 120.50 122.00 Quartz feldspar porphyry, 1% quartz stringers, K alteration. 122.00 123.50 Quartz feldspar porphyry, 1% quartz stringers, K alteration. 123.50 125.00 Quartz feldspar porphyry, 0.3% quartz stringers, K alteration.	845902 845903 845904 845905 845906 845907 845908 845909 845910 845911 845912 845913 845914	106.60 108.00 109.50 111.00 112.50 114.00 115.50 116.50 117.60 119.00 120.50 122.00 123.50	108.00 109.50 111.00 112.50 114.00 115.50 116.50 117.60 119.00 120.50 122.00 123.50 125.00	1.40 1.50 1.50 1.50 1.50 1.50 1.00 1.10 1.40 1.50 1.50 1.50 1.50	.000 .000 .000 .000 .000 .000 .040 .016 .040 .000 .060 .050 .000	
124.95	126.80		MASSIVE MAFIC VOLCANIC Dark green. Fine to medium grined. Moderately hard. Not magnetic. 1-2mm green feldspar, chloritic groundmass. Chlorite bands and patches replacing pillow selvages? quartz-ankerite filling 1-20mm amygdules. White ankerite stringers at 50, 20 & 70 drill core angle. Overall 1% dissiminated pyrite in ankerite stringers. 125.00 126.00 Pillow volcanic, 2% quartz filling amygdules,1% ankerite stringers + dissiminated pyrite,5% chlorite filling fractures. 126.00 126.80 Pillow volcanic, 2% ankerite stringers +dissiminated pyrite, 0.5% quartz filling amygdules.	845915 845916	125.00 126.00	126.00 126.80	1.00 .80	.000 .000	
126.80	142.50		GREY FELDSPAR PORPHYRY Pale to medium grey, locally pink along quartz stringers. Medium-grained. Moderately hard. Non magnetic. 5cm chilled margin upper contact. 1mm feldspar at lower contact. 1-2mm white to pink feldspar. Rare 1mm grey quartz, chloritic matrix and replacing pyroxene? K alteration along quartz stringer. More intense and widespread K-alteration at 128-131 drill core angle 132.00 134.50 Buff beige sericitic alteration around 5-10 % white quartz ankerite stringers between quartz-ankerite stringers at 70 & 20 drill core angle ankerite fragments in 1mm quartz-ankerite stringer. 134.50 142.70 Grey feldspar porphyry but pink to buff beige at > 10% veining around ankerite quartz stringers, silicification & bleaching up to 142.7. Pyrite & chalcopyrite in stringers, filling vugs & dissiminated in groundmass 135.82 8cm tectonic breccia of porphyry.Upper contact at 60 drill core angle. Lower contact at 80 drill core angle. 1-20mm Feldspar porphyry fragments black fine-grained up to 50% chloritic groundmass 138.82 142.7 Feldspar porphyry beige buff breccia with up to 20% quartz ankerite veining 142.0 142.7 2-4cm quartz-ankerite stringers with fragments of	845917 845918 845919 845920 845921 845922 845923 845924 845925 845926 845927	126.80 128.00 129.50 131.00 132.50 134.00 135.50 137.00 138.50 140.00 141.50 141.50	128.00 129.50 131.00 132.50 134.00 135.50 137.00 138.50 140.00 141.50 142.50 142.50	1.20 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 1.00	.000 .150 1.600 .120 .090 .060 1.350 .680 .820 .100 .100 .100	

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			white brecciated feldspar porphyry. Stringers at 0 drill core angle Grey Feldspar porphyry includes multiple generations of <10% quartz-ankerite stringers at 15, 55 & 70 drill core angle Multiple generations of late chlorite fracture at 20 & 40 drill core angle variable & along core axis. Core broken in slabs. 1% dissiminated pyrite along chlorite stringers, trace of chalcopyrite in late stringer.								
			126.80 128.00 Feldspar porphyry, 1% quartz stringers, 5% K alteration at quartz stringers, dissiminated pyrite in chlorite stringers.								
			128.00 129.50 Feldspar porphyry, 5% quartz stringers, 20% K alteration at quartz stringers, dissiminated pyrite in chlorite stringers.								
			129.50 131.00 Feldspar porphyry, 15% quartz stringers, 50% K alteration at quartz stringers,dissiminated pyrite in chlorite stringers.								
			131.00 132.50 Feldspar porphyry, 10% quartz stringer, 20% K alteration at quartz stringers, dissiminated pyrite in chlorite stringers.								
			132.50 134.00 Feldspar porphyry, 10% quartz stringer, 35% K alteration at quartz stringers, dissiminated pyrite in chlorite stringers.								
			134.00 135.50 Feldspar porphyry, 30% buff pink alteration at quartz-ankerite stringers, 1 % dissiminated pyrite.								
			135.50 137.00 Feldspar porphyry, 80% beige buff, silicif, breccia, 2% dissiminated pyrite.								
			137.00 138.50 Feldspar porphyry, 90% beige buff, silicif, 2% dissiminated pyrite, 0.5% pyrite stringers.								
			138.50 140.00 Feldspar porphyry, 80% beige buff, silicif, 2% dissiminated pyrite, 5% pyrite stringers.								
			140.00 141.50 Feldspar porphyry, 80% beige buff, >20% veining & breccia, 2% pyrite stringers.								
			141.50 142.50 Feldspar porphyry, 55% buff 45% grey, 2cm feldspar porphyry breccia, 2% dissiminated pyrite.								
142.50	152.30		GREY QUARTZ FELDSPAR PORPHYRY								
			Grey to dark grey quartz feldspar porphyry, locally pale buff to pinkish. Heterogenous with pillow fragments and some microporphyry bleached fragments and cut by numerous quartz-calcite stringers rimmed by sericite alteration. 1-5cm angular mafic fragments with some rimmed by 1mm pink reaction zone 1-5 mm white subeuhedral felspar, locally pinkish near stringers. Anhedral 1-2 mm grey quartz in grey green 1mm matrix. Locally black chlorite matrix Overall 5% quartz-calcite stringers but near upper contact reach 25% at 40-60 drill core angle. Locally networking of quartz-calcite stringers in 1cm stringers. Late black chlorite stringers at 65 drill core angle, variable From 151.5 152.32 late chlorite stringers coated with 10-50% 1-2mm pyrite Overall 2-3% dissminated very fine-grained to fine-grained pyrite, also around and in some late black chloritic stringers.	845978	142.50	144.00	1.50	.060			
				845979	144.00	145.50	1.50	.000			
				845980	145.50	147.00	1.50	.040			
				845981	147.00	148.50	1.50	.000			
				845982	148.50	150.00	1.50	.000			
				845983	150.00	151.00	1.00	.260			
				845984	151.00	152.30	1.30	.040			
			142.50 144.00 10-35% calcite stringer networks in mixed zone of porphyry and pillow fragment near upper contact. Silicification. Late cutting <1mm black chloritic stringers. Core all broken in small blocks from 142.5 to 142.7.								
			142.95 143.10 Mafic dyke or pillow. Irregular upper contact. Sharp lower contact at 40 drill core angle, core broken. Fine-grained 1mm chilled margin? 1mm grey green anhedral feldspar? Network of 1mm quartz-calcite stringers filling fractures.								
			144.36 144.60 Mafic dyke or pillow fragment. Dark green. Fine-grained. Upper contact at 50 drill core angle. Irregular contact.								
			147.00 148.30 Red fine-grained porphyry fragment?,or pillow contained in medium-grained grey buff porphyry host rock. Look like iron formation but reaction zone or chilled margin very fine-grained toward contact. 1mm white grey feldspar phenocrysts in dark grey to purple fine-grained matrix in central part of fragment. Fine-grained & no phenocrysts along brecciated contact. Grey-greenish bleaching along 1mm calcite stringers rimmed by 1-5mm sericite zones and along contact with host porphyry. Hard to moderately hard. Strongly magnetic in reddish parts but much less in bleached zone near lower contact. Upper contact at 10-20 drill core angle variable but lower contact sharp at 40 drill core angle. Quartz-calcite lens & stringers along fragment lower contact.								
			151.85 Late 1mm chlorite stringers subparellel at 40-50 drill core angle coated by 10-50% 1-3mm pyrite commonly cubic.								
			152.32 152.34 Dark green chloritic material cut by 1cm quartz stringer at 80 drill core angle.								
			142.50 144.00 BP, 25% quartz-calcite stringers, silicification, bleached,0.5% pyrite.								
			144.00 145.50 Quartz feldspar porphyry, 15% quartz-calcite stringers, 1% dissiminated pyrite.								
			145.50 147.00 Quartz feldspar porphyry, 10 % quartz-calcite stringers, 1-2% dissiminated pyrite.								
			147.00 148.50 Quartz feldspar porphyry, 15% quartz-calcite stringers, 1-2% pyrite.								
			148.50 150.00 Quartz feldspar porphyry, 10% quart-calcite stringers,1-2% pyrite.								
			150.00 151.00 Quartz feldspar porphyry, 10% quartz-calcite stringers, 1-2% dissiminated pyrite.								
			151.00 152.30 Quartz feldspar porphyry, 10% quartz-calcite stringers, 10-50% pyrite in late chlorite-filled fractures.								
152.30	153.05		MASSIVE MAFIC VOLCANIC								

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU
			Mafic to intermediatevolcanic. Pale grey to buff. Fine-grained. Wavy upper contact with dark green chloritic material. Chilled margin with 1mm pink rim. 10% black anhedral chloritic specks after amphibole?, rare white 1mm feldspar 5% irregular quartz-calcite stringers at 40 drill core angle with 1-10 mm volcanic fragments in larger parts of stringers. Overall <0.1% pyrite. Irregular lower contact. 152.30 153.05 Massive mafic volcanic, 10% quartz-calcite stringers, 0.5 % PR.	845985	152.30	153.05	.75	.000	
153.05	156.35		GREY-GREEN CARBONATE Dark green to grey-beige carbonate after diabase or massive volcanic. Medium to coarse-grained. Non magnetic. Moderaltely hard. Carbonatized. To non deformed near upper contact to strongly veined, brecciated toward contact with talc chlorite schist. Overall 15-20% quartz-ankerite stringers Mostly sharp and variable direction 1-3mm stringers at 20 to 65 drill core angle up to 156.90 to 1.5 cm brecciated milky quartz-ankerite stringers in fine-grained to brecciated matrix. Strong foliation of stringers at 45 drill core angle in schistose part near talc chlorite schist contact. Overall 1% very fine-grained pyrite. 153.05 154.00 Grey green carbonate, 10-15% quartz-calcite stringers, carbonitization, 0.5 pyrite. 154.00 155.05 Grey green carbonate, 15% quartz-calcite stringers, 0.5 % pyrite. 155.05 156.50 Grey green carbonate, 10% quartz-calcite stringers, 0.5 % pyrite.	845986 845987 845988	153.05 154.00 155.05	154.00 155.05 156.50	.95 1.05 1.45	.000 .000 .060	
156.35	156.65		FAULT ZONE Fault gouge, lower contact at 80 drill core angle. 156.50 157.85 Grey green carbonate, 25% quartz-calcite stringers, bracciation, 0.5 % pyrite.	845989	156.50	157.85	1.35	.000	
156.65	160.40		TALC-CHLORITE SCHIST Dark green to black green. Fine-grained. Moderately soft to soft. Non magnetic except very rare magnetic fragment. Brecciated white carbonate fragments often contorded. Brecciated quartz and quartz- carbonate stringers. Penetrativefoliation and shistosity at 45 drill core angle. Overall 5 % calcite-quartz stringers. Overall <0.5 % dissiminated very fine-grained pyrite.						
160.40	163.50		FAULT ZONE Fault gouge. Blocky. Dark olive green. <1% late chloritic & carbonate stringers at 0 drill core angle. Schistosity along lower contact at 55 drill core angle.						
163.50	181.80		TALC-CHLORITE SCHIST Similar to above. Locally 1mm calcite stringer network. Minor fault gouge. 171.70 Quartz-calcite-chlorite stringer at 35 drill core angle variable thickness from 0.2 to 1cm. 174.05 0.5cm calcite-quartz stringer at 60 drill core angle filled 2cm fracture at 90 drill core angle. 175.25 0.7 cm calcite-uartz stringer microfolded lower contact at 30 drill core angle. 177.65 177.72 Fault gouge. Upper contact at 50 drill core angle, lower contact at 45 drill core angle 0.3-2 cm calcite fragments. 179.77 179.87 Fault gouge. Schistosity at 60 drill core angle. Upper contact at 50 drill core angle and variable. 180.80 1 cm calcite stringer at 65 drill core angle. 181.00 181.80 40 % quartz and calcite stringers variable directions. Boudinage of stringers. Silicification. 181.68 0.5 cm calcite stringer at 40 drill core angle.						
181.80	220.20		MASSIVE MAFIC VOLCANIC Green to dark green. Fine-grained. Non magnetic. Moderately soft. Locally 1-2 mm amygdules. Rare flow banding at 60 drill core angle. Overall 2-5% calcite and quartz stringers filling late fractures cutting across bedding at 45 drill core angle. Local brecciation caused by silicification of flow tops. Chloritization between flow units. Rare sericitization. From 184.50 to 186.00 broken and blocky core. 189.00 192.00 Massive volcanics cut by late calcite stringers filling tension gashes around 1-3 mm calcite stringers at 40-45 drill core angle. Rare lenses of <1mm pyrite in some calcite stringers. 192.00 193.00 20-25% quartz-calcite stringers brecciating the volcanics Several crosscutting stringers generations. 192.70 Composite quartz-calcite stringers at 40 drill core angle with 1-5 cm lenses of 1-2mm pyrite filling or replacing some stringers. 196.65 1.0 cm quartz-calcite stringer at 35 drill core angle with center filled by chlorite rimmed by 0.5-1cm sericite +1-2mm pyrite alteration of variable direction cut across by late 1-10 mm calcite+chlorite stringers with 1-5mm cubic pyrite. 202.30 202.70 1cm milky white quartz stringer filling fractures at 0 drill core angle. 205.95 0.5 cm quartz stringer at 35 drill core angle with 1mm chlorite stringer in center part 207.40 0.5 cm white milky quartz + late calcite, lower	845991 845992 845990	194.90 195.80 212.00	195.80 196.80 213.20	.90 1.00 1.20	.000 1.840 .040	

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU
			contact at 65 drill core angle & upper contact variable. 210.75 213.17 volcanic cut by 10-25% quartz-pink calcite stringers at 60 drill core angle. Silicification. Milky blue grey quartz. 5% cubic 1-2mm pyrite in stringers. 194.90 195.80 Massive mafic volcanic, 15% quartz-calcite stringers at 45 drill core angle. 195.80 196.80 Massive mafic volcanic, 10% quartz-calcite stringers, brecciation, 20% pyrite. 212.00 213.20 Massive mafic volcanic, 25% quartz-calcite stringers, silicification, 2% pyrite.						
220.20	238.00		VARIOLITIC MAFIC VOLCANIC Pale green to light grey. Fine-grained. Variolitic 1-5 mm size. Flow tops varioles stretched locally at 45-50 drill core angle in fine-grained chloritic matrix. Non magnetic. Moderately soft. Bedding at 60 drill core angle. Varioles locally foliated from 239.2 to 240.5 pervasive brecciation and sericitization of matrix. Overall 3-35 % 1-5 mm quartz-calcite stringers mostly at 45 drill core angle, 25% at 20 drill core angle. Late quartz-calcite stringers and tension gashes at 0-10 drill core angle Some cherty quartz stringers & silicified bands fragmented forming boudins along flow contacts. 1-2% pyrite mainly associated to quartz-calcite stringers at 45 drill core angle. 225.00 Flow margin silicified, network of 1-10 mm quartz-calcite stringers 15 drill core angle variable. 229.70 229.85 VMV brecciated by blue-grey quartz-calcite stringers. Upper contact at 25 drill core angle, 2-3% chalcopyrite along stringer walls Several stringers generation of chloritized angular 1-5 cm volcanic fragments. 230.40 231.00 Variolitic mafic volcanic silicified & brecciated by quartz calcite stringers, upper & lower contacts at 20 drill core angle. Several parallel stringer generations with 1-2 cm fragments. Nebulus matrix texture 1-2% chalcopyrite along stringer walls and 0.3% pyrite. 231.50 1 cm quartz-calcite stringers at 30 drill core angle. 229.70 231.00 Variolitic mafic volcanic, 35% quartz-calcite stringers, silicification, 2-3% PO. 237.00 238.10 Variolitic mafic volcanic, 10% quartz-calcite stringers, bleached, 0.5% pyrite.	845993 845994	229.70 237.00	231.00 238.10	1.30 1.10	.000 .000	
238.00	241.20		BLEACHED MAFIC VOLCANIC Medium green to pale green & olive to buff in brecciated areas. Fine-grained Hard to moderately hard. Moderately soft in dark green chloritized areas. Strong foliation in pale green areas at 35 drill core angle of bedding and quartz stringers. Overall 5% quartz-calcite stringers. Local brecciation by stringer network and silicification of matrix along some quartz stringers. Buff areas due to sericitization of matrix and brecciation filled by dark green 1mm chlorite stringers. Overall 3-5 % fine-grained pyrite dissiminated in chloritic stringers and sericitized matrix. Also along silicified pillow margins and locally reaching up to 15% pyrite. 240.90 Pillow margin with 15 % pyrite agglomerated along fragmented quartz stringer over 1-2 cm in a chloritized dark green matrix. Lower contact at 45 drill core angle rimmed with dissminated <1 mm pyrite. 241.10 Late 1cm quartz stringer at 40 drill core angle with fractures perpendicular to walls filled by calcite. 241.22 Lower contact at 40 drill core angle host 1-2mm subparallel quartz stringers with schist blocks. 238.10 239.20 Variolitic mafic volcanic, 15% quartz-calcite stringers, bleached, 2-3% pyrite. 239.20 240.30 Variolitic mafic volcanic, 10-15% quartz-calcite stringers, bleached, 5% pyrite. 240.30 241.20 Variolitic mafic volcanic, 15% quartz-calcite stringers, sericitization, 5% pyrite.	845995 845996 845997	238.10 239.20 240.30	239.20 240.30 241.20	1.10 1.10 .90	.100 1.370 .270	
241.20	242.30		FAULT ZONE Massive volcanic broken in blocks and schistose. Scistosity at 40 drill core angle. 50 cm of core missing. 242.30 fault plane at 35 drill core angle. 242.20 243.00 Grey green carbonate, 20% quartz-calcite stringers, 0.5 % pyrite.	845998	242.20	243.00	.80	.000	
242.30	250.85		GREY-GREEN CARBONATE Possibly massive mafic volcanic strongly carbonatized. Grey-green to green. Fine-grained. Moderately soft. Calcite + chlorite matrix. Non magnetic. Strongly foliated at 45 drill core angle. Several quartz-calcite stringers stretched along foliation and boudinage. Along pillow margins grey-buff porphyry fragment or dyke with irregular and jagged or brecciated contact Overall 15-25 % quartz-calcite stringers. Several stringers cut by late crenulated & chloritized fracture/cleavage at 15 drill core angle, variable, upper contact with local brecciation of stringers and matrix. Overall 1-2 % dissiminated pyrite 242.70 242.90 Grey-buff porphyry fragment. Hard. Non Magnetic. 1mm white feldspar in finer grained greyish matrix. Buff stringers of pervasive sericitization and sericitic stringers at 55 drill core angle in silicified areas along walls. Upper contact at 55 drill core angle. Lower contact variable. Overall 35% quartz stringers & silicification. Overall 1-2 % very fine-grained pyrite in matrix from 251.50 to 257.5 about 50% of core broken in small blocks. 243.50 243.80 Grey-buff porphyry fragment. Similar to above but more local sericitization around porphyry matrix fragmented by chloritic stringers Hard. Non magnetic. Only 5% late	845999 846000 822056 822057 822058 822059	243.00 244.00 245.50 247.00 248.50 249.50	244.00 245.50 247.00 248.50 249.50 250.90	1.00 1.50 1.50 1.50 1.00 1.40	.060 .000 1.580 .000 .000 .000	

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			1mm quartz stringers at 65 drill core angle, variable. 246.20 248.50 Strong brecciation of rock matrix and stringers. 243.00 244.00 Grey green carbonate, porphyry fragment?, 5% quart stringers, 0.5% pyrite. 244.00 245.50 Grey green carbonate, 15% quartz-calcite stringers, 0.5 % pyrite. 245.50 247.00 Grey green carbonate, 35% quartz-calcite stringers, silicification, brecciation, 0.5% pyrite. 247.00 248.50 Grey green carbonate, 25% quartz-calcite stringers, brecciation, 0.5% pyrite. 248.50 249.50 Grey green carbonate, 2% quartz-calcite stringers, 0.5% pyrite. 249.50 250.90 Grey green carbonate, 10% quartz-calcite stringers, brecciation, 0.5% pyrite.								
250.85	252.50		BLEACHED MAFIC VOLCANIC Pale green to dark green. Fine-grained. Probably massive mafic volcanic. Matrix brecciated. Moderaltely hard. Non magnetic. Overall 5-15% quartz-pink ankerite. Locally schistose. 253.85 Fragment of grey-buff porphyry. Locally buff. Fine-grained. Hard. Non magnetic. Upper contact at 35 drill core angle, brecciated by chlorite stringers. Weak sericitization along chlorite stringers. Trace of pyrite. 250.90 252.50 Bleach mafic volcanic, 15% quartz-calcite stringers, brecciation, 0.5 % pyrite.	822060	250.90	252.50	1.60	.140			
252.50	258.30		FAULT ZONE TALC-CHLORITE SCHIST Dark green. Fine-grained. Strong foliation at 0 drill core angle variable. Strong foliation of quartz & quartz-calcite stringers at 0 drill core angle, with boudinage and folding Overall 25-35% stringers. Trace of fine-grained dissiminated pyrite. 252.30 3 Cm quartz-calcite stringer at 20 drill core angle. Contain angular rock fragments. Upper contact broken at 25 drill core angle, variable. Lower contact at 25 drill core angle & brecciated. 253.50 253.70 Blocky talc chlorite schist schist with 15% quartz stringers. 256.00 Late 2 cm quartz stringer at 50 drill core angle with local brecciation. 256.50 258.30 Blocky talc chlorite schist, schistosity at 0 drill core angle. 257.30 Brecciated porphyry fragment in talc chlorite schist, 10% pyrite filling late fracture at 40 drill core angle. Lower contact broken at 40 drill core angle. 252.50 254.00 Talc chlorite schist, 10-15% quartz-calcite stringers, brecciatio, PY with chlorite	822061	252.50	254.00	1.50	2.430			
258.30	261.80		GREY QUARTZ FELDSPAR PORPHYRY Pale to medium grey. Buff along fractures & of schist walls. Pinkish due to pink carbonate. Medium to fine-grained toward margin. Coarse-grained within 10 cm. Grey buff 0.5-3 cm feldspar. Grey blue 1-5 mm quartz. Highly fractured by late random <1mm chlorite filling fractures. Locally white to pinkish carbonate filling fractures at 55-65 drill core angle. Overall 5-10% calcite filling stringers. Very restricted silicification at 260.80 over 3 cm. Overall 1-2% of very fine to fine-grained dissminated pyrite. 261.10 261.30 Crushed zone of porphyry with buff sericitization along chloritized fragments and filled fractures at 30-45 drill core angle,local brecciation. 261.76 Lower porphyry contact broken at 40 drill core angle. Strong porphyry brecciation along lower contact. 258.30 259.55 Grey quartz feldspar porphyry Talc chlorite schist, sericitized, brecciated, 0.5% pyrite. 259.55 260.50 Grey quartz feldspar porphyry, 5% quartz-calcite stringers, 0.5-1.0% pyrite. 260.50 261.75 Grey quartz feldspar porphyry, 5% quartz-calcite stringers, crushed zone. 261.75 263.05 Grey green carbonate breccia, silicification, 0.5% pyrite.	822062 822063 822064 822065	258.30 259.55 260.50 261.75	259.55 260.50 261.75 263.05	1.25 .95 1.25 1.30	.200 .230 .060 .000			
261.80	266.85		GREY CARBONATE BRECCIA Dark to pale grey to weak dark green. Rare buff sericitized fragments. Locally strongly stretched and streaky stringers at 25-30 drill core angle. Fine grained. Moderately soft chloritic matrix but hard in silica-rich stringers. Upper contact cut by a 2 cm quartz-calcite stringer with a sharp lower contact at 40 drill core angle but brecciated upper contact, with about 25% fragments. 261.76 263.00 Weak brecciated of grey carbonate unit. Local silicification of late 1-3mm quartz-calcite grey stringers at 20. 262.20 Late 2 cm white quartz-calcite 90 drill core angle. 263.00 266.85 Penetrative deformation and brecciation from 20 drill core angle to 0 drill core angle. Upper contact with mylonite texture. Soft due to talc and chlorite matrix. 265.70 265.95 Fault gouge crumbly. Upper contact at 50 drill core angle. 263.05 264.50 Grey green carbonate breccia, 2-3% quartz-calcite stringers, strong deformation. 264.50 265.50 Grey green carbonate breccia, strong foliation. 265.50 266.85 Grey green carbonate breccia, silification, fault gouge.	822066 822067 822068	263.05 264.50 265.50	264.50 265.50 266.85	1.45 1.00 1.35	.000 .000 .130			
266.85	274.50		TALC-CHLORITE SCHIST Probably grey carbonate strongly deformed and schistose. Dark green to dark grey. Strong deformation of quartz-calcite stringers into fragments in a fine-grained matrix. Chloritic and	822069 822070	273.10 274.45	274.45 276.00	1.35 1.55	.000 .000			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			talcose matrix. Strong foliation at 0-5 drill core angle. Overall <1 % late cutting quartz-calcite stringers. Rare pyrite.								
			270.65 271.10 Fault gouge crumbly & schistose. Upper contact at 20 drill core angle. Lower contact at 35 drill core angle.								
			273.10 274.45 Carbonatized talc chlorite schist, crumbly, cut by several parallel 0.5-2cm carbonate (ankerite or dolomite?) stringers at 0 drill core angle along schistosity. Chlorite filling late fractures in carbonate stringers.								
			273.10 274.45 Talc chlorite schist, 35% calcite stringers.								
			274.45 276.00 Grey green carbonate breccia, silification, pyrite and PO trace in stringers.								
274.50	277.80		GREY CARBONATE BRECCIA								
			Dark to medium grey and greenish locally. In crushed zone purplish. Similar to above. Strong foliation at 25-30 drill core angle to 0 drill core angle. Fine to medium-grained. Locally crumbly in crush zone. Local weak silification. Overall 5-10% quartz-calcite stringers. Rare pyrite and chalcopyrite in stringers.	822071	276.00	276.90	.90	.000			
				822072	276.90	277.80	.90	.000			
			275.65 2cm of broken crush zone. Schistosity at 35 drill core angle.								
			276.00 0.5-1cm quartz stringers at 55 drill core angle. Local silification.								
			276.00 276.90 Grey green carbonate breccia, silification, foliation.								
			276.90 277.80 Grey green carbonate breccia, silification, PO trace.								
277.80	283.65		TALC-CHLORITE SCHIST								
			Dark green. Fine-grained. Weak to locally strong magnetic. Strong foliation at 20-35 drill core angle. Streaks of 1-5 mm quartz-calcite stringers along foliation. Locally older foliation at 40 drill core angle cut by late stringers at 20 drill core angle & younger foliation at 0-35 drill core angle.								
			277.80 278.10 Fault gouge crumbly. Lower contact at 35 drill core angle along schistose contact.								
			282.60 282.90 Fault gouge schistose at 40 drill core angle. Crumbly. Upper contact at 40 drill core angle.								
			283.50 2cm quartz-calcite stringer. Lower contact at 40 drill core angle. Upper contact broken at 55 drill core angle.								
283.65	284.70		FAULT ZONE								
			Fault gouge. Schistose & talcose. Locally crumbly. Upper contact broken at 40 drill core angle. Schistosity at 35 drill core angle.								
284.70	288.55		TALC-CHLORITE SCHIST								
			Similar to above with dark green matrix. Soft. Weak to strong magnetic. Most stringers are strongly stretched and fragmented into 0.1-5 cm streaks at 35 drill core angle. 5% late quartz -calcite stringers along schistosity.	822073	287.80	288.55	.75	.070			
			285.50 1-2cm quartz-calcite stringer at 10-30 drill core angle variable due to boudinage. Center filled by late chlorite stringers.								
			288.00 End of strongly deformed and mylonitized talc chlorite schist. Locally magnetic in pale green massive volcanic fragments.								
			288.00 288.50 Talc chlorite schist composed of dark green schistose matrix alternating with1-10 mm quartz-calcite stringers strongly foliated at 60 drill core angle.								
			287.80 288.55 Talc chlorite schist, foliation of quartz-ankerite stringers.								
288.55	324.50		GREY CARBONATE BRECCIA								
			Medium grey with locally pale to apple green alteration at quartz-ankerite stringers. Fine-grained between 288.55 291.50 and medium to coarse-grained between 291.50 and 304.5. Stronly foliated near upper contact with talc chlorite schist and alternating with more massive and brecciated from 290.50 to 304.50. Moderately hard to moderately soft in schistose & carbonate-rich zones. Non magnetic. Overall 5-10% quartz-ankerite? stringers. Locally silification. Local fuchsite alteration at some quart-ankerite stringers 288.55 290.10 Medium grey. Fine-grained. Strong foliation at 35 drill core angle of 1-2mm quartz-carbonate lenses of brecciated matrix? Non Magnetic. Moderately soft. Overall 2-5% ribbon contorded quartz-brown ankerite stringers. Overall 1-3% near stringers and dissminated in matrix.	822074	288.55	290.00	1.45	.000			
				822075	290.00	291.00	1.00	.040			
				822076	291.00	292.00	1.00	.160			
				822077	292.00	293.00	1.00	.000			
				822078	293.00	294.00	1.00	.000			
				822079	294.00	295.00	1.00	.000			
				822080	295.00	295.75	.75	.090			
				822081	295.75	297.00	1.25	.000			
				822082	297.00	298.50	1.50	2.030	■		
			290.10 290.60 Talc chlorite schist similar to above. Foliation at 35 drill core angle. Upper contact broken at 45 drill core angle and lower contact at 60 drill core angle.	822083	298.50	300.00	1.50	.000			
				822084	300.00	301.50	1.50	.080			
			291.00 1.5 cm of parallel 5-10 mm quartz-ankerite stringers at 45-5 drill core angle fuchsite fragments in some stringers.	822085	301.50	303.00	1.50	.000			
				822086	303.00	304.50	1.50	.000			
			291.70 292.75 Coarser grained zone of brecciated grey green carbonate with 2-3 cm quartz-ankerite stringers contorded and brecciated with fuchsite alteration rims. Some stringers at 70 drill core angle but reoriented at 0-25 drill core angle.	822087	304.50	305.50	1.00	.000			
				822088	305.50	306.50	1.00	.000			
				822089	306.50	308.00	1.50	.040			
			Late 1-5mm quartz stringers at 50-60 drill core angle often merging with similar stringers. Late stringers locally with fuchsite alteration rims. Overall 2-5% very fine-grained to fine-grained pyrite in matrix and around stringers.	822090	308.00	309.00	1.00	.100			
				822091	309.00	310.00	1.00	.000			
				822092	310.00	311.50	1.50	.000			
			292.50 Composite 1cm quartz-calcite stringers at 30 drill core angle with fuchsite	822093	311.50	312.80	1.30	.000			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU
			filling fractures in stringers.	822094	312.80	314.00	1.20	.000	
			294.50 Similar quartz-ankerite composite stringers brecciated at 50 drill core angle.	822095	314.00	315.00	1.00	.000	
			295.00 295.75 Grey green carbonate more fine-grained. Strong foliation at 60-70 drill core angle. Rare stringers of 1-3mm 70 drill core angle. 3-5% dissminated pyrite.	822096	315.00	316.55	1.55	.000	
			295.75 304.50 Grey green carbonate brecciated. Apple green fuchsite alteration around late stringers. Locally buff sericitic alteration. Medium to coarse lenses of carbonate fragments locally foliated at 30-50 drill core angle 296.45 3 cm zoned quartz-ankerite stringer at 65 drill core angle rimmed by chlorite and sericite.	822097	316.55	318.00	1.45	.000	
				822098	318.00	319.55	1.55	.060	
				822099	319.55	321.00	1.45	.000	
				822100	321.00	322.50	1.50	.000	
				822501	322.50	324.00	1.50	.000	
			299.30 2 cm quartz-ankerite stringer at 40 drill core angle. 1-10 mm fuchsite rims around stringers.	822502	324.00	325.50	1.50	.060	
			300.10 300.64 Blocky grey green carbonate.						
			301.00 0.5 cm quartz-ankerite stringer at 35 drill core angle deformed to 2 cm stringers at 0 drill core angle rimmed by up to 1cm of fuchsite alteration.						
			302.00 303.60 Blocky and broken core of coarse-grained grey green to medium grained buff carbonate alternating with more greenish carbonate zones due to occurrence of 1-5 mm quartz-ankerite late stringers at 70-80 drill core angle. Strong foliation at 70 drill core angle.						
			304.60 305.10 Strong silicification of fine-grained apple green carbonate lower contact marked by brecciated 7 cm of quartz-ankerite stringer with 2cm fuchsite alteration rim. Upper contact at 55 drill core angle & lower contact at 50 drill core angle. 5% of limonite-after sulphide with dull brown yellow oxidation colours.						
			305.50 308.00 Blocky broken core. Locally strong sericitization of finer grained grey buff silicified carbonate breccia.						
			310.05 4.5 cm quartz-ankerite stringer at 65-70 drill core angle. Brecciated and cut by late black chlorite fractures at 0 drill core angle variable.						
			311.00 321.00 Fragmental zone of brecciated and contorded quartz-ankerite stringers in turquoise apple green coarse-grained matrix alternating with fine-grained to coarse-grained grey to buff sericitized carbonate matrix. Commonly coarser grained matrix when several cutting stringers are present. Overall 10 to 35 % of quartz-ankerite stringers often brecciated and deformed Late chloritization of fragments in stringers. 5-15% pyrite filling along fragments and stringers. Overall 2-3% dissminated ~1mm pyrite.						
			313.00 1cm white yellowish ankerite stringer at 20 drill core angle variable.						
			314.90 1cm quartz-ankerite stringer at 50 drill core angle with 1cm fuchsite alteration rim.						
			318.00 4cm milky white quartz-ankertie stringer at 70 drill core angle Core broken.						
			318.80 4 cm quartz-ankerite stringer rimmed with 2cm quartz center at 80 drill core angle. 5-15% pyrite stringers and brecciated matrix along both contacts.						
			321.00 2-3 cm quartz-ankerite stringer broken rotated from 0 to 70 drill core angle. 2cm fuchsite-rich fragment in stringer. 2-5% 1mm pyrite within stringer. Late chlorite along stringer walls.						
			321.65 5 cm quartz-ankerite stringer brecciated, 2-3 % pyrite within stringer.						
			288.55 290.00 Grey green carbonate, 2-3% quartz-ankerite stringers, 2-3% pyrite.						
			290.00 291.00 Talc chlorite schist, 25% quartz-ankerite stringers, 1-2% pyrite.						
			291.00 292.00 Grey green carbonate, 1-3% quartz-ankerite stringers, 1-2% pyrite.						
			292.00 293.00 Grey green carbonate, 20% quartz-ankerite stringers, fuchsite, 2-3% pyrite.						
			293.00 294.00 Grey green carbonate, 15% quartz-ankerite stringers, fuchsite, 2-3% pyrite.						
			294.00 295.00 Grey green carbonate, 15-20% quartz-ankerite stringers, fuchsite, 2-3% pyrite.						
			295.00 295.75 Grey green carbonate, 5% quartz-ankerite stringers, fuchsite, 1% pyrite.						
			295.75 297.00 Grey green carbonate breccia, 10% quartz-ankerite stringers, fuchsite, 1-2% pyrite.						
			297.00 298.50 Grey green carbonate breccia, 10% quartz-ankerite stringers, silica, fuchsite, 1-25 pyrite.						
			298.50 300.00 Grey green carbonate breccia, 10-15% quartz-ankerite stringers, fuchsite, 2-3% pyrite.						
			300.00 301.50 Grey green carbonate breccia, 10-15% quartz-ankerite stringers, fuchsite, 2-3% pyrite.						
			301.50 303.00 Grey green carbonate breccia, 15% quartz-ankerite stringers, 20% sericite, fuchsite, 2-5% pyrite.						
			303.00 304.50 Grey green carbonate breccia, 20% quartz-ankerite stringers, 30% sericite, fuchsite, 2-3% pyrite.						
			304.50 305.50 Grey green carbonate breccia, 15% quartz-ankerite, silica, 2-3% pyrite.						
			305.50 306.50 Grey green carbonate breccia, 10% quartz-ankerite stringers, 2-3% pyrite.						
			306.50 308.00 Grey green carbonate breccia, 10% quartz-ankerite stringers, 2-3% pyrite.						
			308.00 309.00 Grey green carbonate breccia, 5% quartz-ankerite stringers, 1-2% pyrite.						
			309.00 310.00 Grey green carbonate breccia, 5% quartz-ankerite stringers, 2-3% pyrite.						
			310.00 311.50 Grey green carbonate breccia, 20% quartz-ankerite stringers, 10-15% pyrite.						
			311.50 312.80 Grey green carbonate breccia, 10% quartz-ankerite stringers, silica, 2-3% pyrite.						
			312.80 314.00 Grey green carbonate breccia, 10% quartz-ankerite stringers, 3-10% pyrite.						

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			314.00 315.00 Grey green carbonate breccia, 15% quartz-ankerite stringers, 5-10% pyrite.								
			315.00 316.55 Grey green carbonate breccia, 20-25% quartz-ankertie stringers, 5-15% pyrite.								
			316.55 318.00 Grey green carbonate breccia, 15% quartz-ankerite stringers, 5-10% pyrite.								
			318.00 319.55 Grey green carbonate breccia, 15-20% quartz-ankerite stringers, 2-5% pyrite.								
			319.55 321.00 Grey green carbonate breccia, 20-25% quartz-ankerite stringers, 3-5% pyrite.								
			321.00 322.50 Grey green carbonate breccia, 20-25% quartz-ankerite stringers 1-2% pyrite.								
			322.50 324.00 Grey green carbonate breccia, 15% quartz-ankerite stringers, fuchsite, 1-2% pyrite.								
			324.00 325.50 Grey green carbonate breccia, 5% quartz-ankerite stringers, fuchsite, gouge.								
324.50	324.90		FAULT ZONE Fault gouge. Blocky. Lower contact sharp at 55 drill core angle Upper contact broken. 1-3 cm fragment in schistose matrix.								
324.90	342.25		GREY CARBONATE BRECCIA Pale grey to buff. Dark grey to greenish matrix between fragments and coarse carbonate. Rare apple green alteration along stringers. Fragmental. Locally spotty to tiger looking texture. Medium to coarse-grained fragments in fine-grained interstitial matrix. Strong foliation of 1-4 cm fragments at 50-60 drill core angle. Moderately hard. Non magnetic. Overall 2 to 15 % quartz-ankerite stringers at 30-50 drill core angle. Stringers at upper & lower contacts often variable. Rare stringer internall brecciated. Overall 1-2% of 1-2mm pyrite dissiminated in matrix.	822503	325.50	327.00	1.50	.140			
				822504	327.00	328.50	1.50	.000			
				822505	328.50	330.00	1.50	.120			
				822506	330.00	331.50	1.50	.040			
				822507	331.50	333.00	1.50	.050			
				822508	333.00	334.50	1.50	.000			
				822509	334.50	336.00	1.50	.000			
			337.70 340.60 Increasing silification of matrix. 340.60 342.10 increasing chloritic alteration of matrix & foliation at 60 drill core angle.	822510	336.00	337.50	1.50	.000			
			327.55 1-2cm coarse quartz-ankerite stringer. Upper contact at 55 drill core angle. Lower contact variable.	822511	337.50	338.45	.95	.000			
				822512	338.45	339.50	1.05	.000			
				822513	339.50	340.60	1.10	.000			
			328.55 1cm quartz-ankerite stringer at 35 drill core angle.	822514	340.60	342.00	1.40	.070			
			330.00 1.5 cm composite & brecciated quartz-ankerite stringer at 0-5 drill core angle. Grey quartz broken 2-3mm stringer in center of larger stringer with minor fuchsite. Local fuchsite alteration along stringer walls.	822515	342.00	343.00	1.00	.000			
			331.00 1cm late sharp quartz-ankerite stringer from 60 to 30 drill core angle.								
			332.35 4cm composite quartz-ankerite stringer at 35 drill core angle. Brecciated. Locall fuchsite alteration along stringer fragments and walls.								
			334.10 334.50 1-2 cm quartz-ankerite stringers, folded, broken and brecciated Local fuchsite alteration along walls.								
			336.95 1cm quartz-ankerite stringer upper contact at 35 drill core angle but lower at 30 drill core angle. Carbonate fragments along walls also stretched at 35-40 drill core angle.								
			337.25 1cm quartz-ankertie stringer at 50 drill core angle. Fuchsite along stringers. 1cm pyrite fragment along lower contact.								
			337.40 1cm composite quartz-ankerite stringer stretched and going from 0 to 80 drill core angle. Brecciated chlorite alteration along walls.								
			338.50 Late 2cm quartz-ankerite stringer. Upper contact at 50 drill core angle Lower at 45 drill core angle core broken.								
			339.10 2-3cm quartz-ankerite stringer lower contact at 0-10 drill core angle variable. Upper contact at 30 drill core angle core broken.								
			340.35 Late 1cm quartz-ankerite stringer at 75 drill core angle. Lower contact broken.								
			340.60 Late 2cm quartz-ankerite stringer at 55 drill core angle. Upper contact broken.								
			340.80 341.00 Matrix schistose & foliation at 60 drill core angle.								
			341.95 2 cm late quartz-ankerite stringer at 50 drill core angle. Lower contact broken.								
			342.15 Late 10 cm coarse quartz-ankerite stringer with chlorite stylolith Upper contact at 50 drill core angle. Lower contact broken.								
			325.50 327.00 Grey green carbonate breccia, 2-3% quartz-ankerite stringers, 0.5% pyrite.								
			327.00 328.50 Grey green carbonate breccia, 10% quartz-ankerite stringers, 0.5% pyrite.								
			328.50 330.00 Grey green carbonate breccia, 5% quartz-ankerite stringers, 05% pyrite.								
			330.00 331.50 Grey green carbonate breccia, 5-10% quartz-ankerite stringers, 0.5% pyrite.								
			331.50 333.00 Grey green carbonate breccia, 15% quartz-ankerite stringers, 1% pyrite.								
			333.00 334.50 Grey green carbonate breccia, 5-10% quartz-ankerite stringers, 2-3% pyrite.								
			334.50 336.00 Grey green carbonate breccia, 2% quartz-ankerite stringers, 0.5% pyrite.								
			336.00 337.50 Grey green carbonate breccia, 15% quartz-ankerite stringers, 1-2% pyrite.								
			337.50 338.45 Grey green carbonate breccia, 10-15% quartz-ankerite stringers, 1% pyrite.								
			338.45 339.50 Grey green carbonate breccia, 30% quartz-ankerite stringers, 1% pyrite.								
			339.50 340.60 Grey green carbonate breccia, 20% quartz-ankerite stringers, 1% pyrite.								
			340.60 342.00 Grey green carbonate breccia, 10-15% quartz-ankerite stringers, 1% pyrite.								
			342.00 343.00 Grey green carbonate breccia Talc chlorite schist, 10% quartz-ankerite stringers.								
342.25	346.65		TALC-CHLORITE SCHIST Dark green to black. Fine-grained matrix. Fragments & stringers strongly foliated at 70 drill core angle. Overall 20-30% stringers stretched and folded Zone of deformation and mylonitization	822516	346.50	348.00	1.50	.000			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU
			of stringers and local silification of matrix. 346.30 5cmquartz-ankerite stringer at 60 drill core angle. Chloritic styloliths broken. 346.50 348.00 Grey green carbonate, 5% quartz-ankerite stringers, 1-2% pyrite.						
346.65	350.00		GREY-GREEN CARBONATE Dark green to medium green. Fine to medium-grained. Moderately soft. Non Magnetic. Strongly foliated fragments at 40-50 drill core angle. Locally schistose with chloritic fine-grained matrix betwenn stretched fragments. Locally silification and carbonatization of matrix with random fragments. Upper contact broken with quartz-ankerite stringer & talc chlorite schist. Lower contact broken with diabase. 346.70 2 cm quartz-ankerite stringer at 60 drill core angle. 349.55 3cm quartz-ankerite stringer at 40-45 drill core angle. Fragments of host rock. 348.00 349.50 Grey green carbonate, 5-10% quartz-ankerite stringers, 1-2% pyrite.	822517	348.00	349.50	1.50	.000	
350.00	352.70		FINE-GRAINED DIABASE Dark green to black. Fine-grained. Massive. Moderately soft. Non Magnetic. Broken in blocks along schistose fractures at 55-75 drill core angle. 1-2% late quartz-ankerite stringers at 70 drill core angle. Upper contact broken. Chilled lower contact at 60 drill core angle.						
352.70	354.20		TALC-CHLORITE SCHIST Same as above but stringers more stretched, thinner and smaller 1-3 cm. Lower contact cut by sevral parallel 1cm quartz-ankerite stringers at 65 drill core angle.						
354.20	354.90		FINE-GRAINED DIABASE Same as above. Upper contact at 75 drill core angle. Broken and schistose. 354.70 356.00 Quartz feldspar porphyry, 2% quartz stringers & quartz-ankerite stringer,10% chlorite stringers, 2 dissiminated pyrite, 1% stringers.	845928	354.70	356.00	1.30	1.970	
354.90	361.80		QUARTZ FELDSPAR PORPHYRY Pale to medium grey. Fine to medium-grained. Moderately hard. Non magnetic. 1-2mm white feldspar & grey quartz. Late quartz-ankerite stringers at 40 & 60 drill core angle, white & locally pink ankerite stringers. 2-3 % dissiminated 1-2mm pyrite, up to 5% in quartz-ankerite flooded zone. Proportion of black groundmass increases with % of chlorite stringers from 358.0 to 359.0. 1-5mm pyrite stringers in late fracture filling chlorite stringers at 60 drill core angle. Small <1mm chlorite stringers cutting porphyry in all directions giving a fragmented texture. Quartz stringers at 355.65 & quartz-ankerite stringers fractured & displaced by late chlorite stringers. 356.05 <1cm quartz stringers at 65 drill core angle. Cut by late chlorite stringers. 356.78 3cm quartz-ankerite stringer, upper & lower contacts broken at 80 drill core angle. 356.78 359.30 Quartz-ankerite stringers flooding, from <1mm to 1cm stringers in all directions. Late chlorite styloliths at 80 drill core angle. 358.8 1cm quartz-ankerite stringer. Upper contact at 55 & lower contact at 60 drill core angle. Including 1mm pyrite and 2mm chalcopyrite. 356.00 357.00 Quartz feldspar porphyry, 2% quartz-ankerite stringers, 2% dismm pyrite, 1% pyrite stringers. 357.00 358.00 Quartz feldspar porphyry, 20% quartz-ankerite stringers,quartz-ankerite flooding, 5% dissiminated pyrite, 5% pyrite stringers. 358.00 359.30 Quartz feldspar porphyry, 30% quartz-ankerite stringers, quartz-ankerite flooding, 2% dissiminated pyrite, 2% pyrite. 359.30 361.00 Grey green carbonate, 20-50% quartz-ankerite stringer at 60 drill core angle, 5% late quartz-ankerite stringer, tr pyrite.	845929 845930 845931 845932	356.00 357.00 358.00 359.30	357.00 358.00 359.30 361.00	1.00 1.00 1.30 1.70	2.340 5.370 2.850 .000	
361.80	362.55		GREY CARBONATE BRECCIA Medium to pale grey. Locally pale green to buff. Medium-grained with fragments but mostly fine-grained when no fragments. Brecciated. Strong schistosity at 60 drill core angle & quartz-ankerite stringer at 60 drill core angle. 5 to 50% quartz-ankerite stringer parallel to schistosity & up to 10% late cutting 1-2cm quartz-ankerite stringer. Locally flooded with silicification, carbonatization and buff sericite. 1-2cm quartz stringers & quartz-ankerite stringer at 70 drill core angle variable. Buff beige sericite foliation at 60 drill core angle. Locally strong schistosity forming streaky fragments at 65 drill core angle with 20-40% chloritic groundmass. 361.80 363.00 Grey green carbonate breccia, 10% quartz-ankerite stringers, 1% pyrite.	822518	361.80	363.00	1.20	.000	
362.55	364.80		FAULT ZONE Talc chlorite schist core all broken. 363.00 363.95 Grey green carbonate breccia, 1-2% quartz-ankerite stringers, silica, sericite, 1% pyrite. 363.95 365.00 Grey green carbonate breccia, 10% quartz-ankerite stringers, silica, sericite, 1% pyrite.	822519 822520	363.00 363.95	363.95 365.00	.95 1.05	.000 .000	

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
364.80	371.90		GREY CARBONATE BRECCIA Pale grey to green. Medium to coarse-grained. Brecciated. Fragments foliated at 30-35 drill core angle. Local silica flooding from 367.00 370.85 Zones of fine-grained brecciation of grey carbonate. Overall 5-10% late quartz-ankerite stringers in fine-grained schistose matrix at 80-90 drill core angle and 10-15% older deformed quartz ankertie stringers. Overall 1-2% dissiminated pyrite but up to 15% in silica flooded zones. 367.00 2cm grey blue quartz stringer at 50 drill core angle. 369.50 4cm quartz calcite stringer filling fracture. 369.65 2cm quartz calcite stringer at 50 drill core angle. 370.20 0.5-1cm pyrite stringer at 20 drill core angle cut by late foliation at 35 drill core. 370.40 2cm quartz calcite stringer at 60 drill core angle. 365.00 366.00 Grey green carbonate breccia, 20% quart-ankerite stringers, sericite, silica. 366.00 367.50 Grey green carbonate breccia, silification, brecciation,0.5% pyrite. 367.50 369.00 Grey green carbonate breccia, foliation at 30-35, 0.5% pyrite. 369.00 370.00 Grey green carbonate breccia, quartz flooding, silification, 2-5% pyrite. 370.00 370.90 Grey green carbonate breccia, silification, 5-10% pyrite stringers. 370.90 372.00 Pyroclastic tuff, 0.2% quartz calcite stringers, 0.5% dissminated pyrite.	822521 822535 822536 822537 822538 845941	365.00 366.00 367.50 369.00 370.00 370.90	366.00 367.50 369.00 370.00 370.90 372.00	1.00 1.50 1.50 1.00 .90 1.10	.000 .000 .000 .000 .000 .110			
371.90	411.25		TUFFACEOUS PYROCLASTIC Grey to pale grey to pale green. Fine-grained, locally medium-grained with tuffaceous clasts. Locally up to 10% clasts. Mafic & felsic clasts, some mafic sericitized clasts. Clast lengths range from 1 to 5 CM. <2% voids in tuffaceous matrix from dissolution of calcite amygdules? Locally fine grained black chloritic band with up to 10% pyrite agglomerate. Irregular, contorted and fragmented quartz, quartz-calicite (white to pink) stringers of variable directions. Late stringers at 60 drill core angle. 1mm to 10cm quartz & quartz-calcite stringers and veins. Largest veins cut by chloritic styloliths. Late calicte-filling of fractures in quartz veins Late pyrite stringers at 0 drill core angle cut foliation. Fine-grained 1-2 % pyrite in tuff matrix, locally up to 25% dissiminated 1-3mm pyrite along late stringers at 387.25 in deformed and stretched mafic dyke with a black chlorite matrix. Foliation at 35-55 drill core angle. 1-3mm chloritic stringers at 45 drill core angle locally <1cm sericitic zones at 45 drill core angle. Siliceous matrix between clasts Moderately hard. Non magnetic. Overall 0.5 to 2% dissiminated pyrite in tuff matrix. Upper contact at 55 drill core angle broken. Lower contact GGC at 50 drill core angle. Cut by minor fault gouge. 370.87 372.50 Core all broken in small blocks. 372.10 10 cm fault gouge upper contact & lower contact all broken. 375.20 1.5 cm quartz-cacite stringer upper contact at 60 drill core angle, core broken. 375.63 4cm quartz calcite stringer upper contact broken at 60 drill core angle, lower contact variable at 80 drill core angle. 377.87 5 cm Fault gouge upper contact broken at 60 drill core angle. 378.05 2 cm quartz-calcite stringer upper contact 60 drill core angle, core broken. 383.95 1cm quartz-calcite stringer at 75 drill core angle. 385.62 2 cm quartz-calcite composite stringers, upper contact at 35 drill core angle, lower contact broken. 387.25 387.35 Mafic dyke. Fine-grained. White stretched fragments of calcite, very fine-grained dyke matrix, chloritized black matrix. Non Magnetic upper contact at 45 drill core angle. 389.30 390.50 Silicification & flooding, stringers variable directions 20-90 drill core angle, several generations of 2-3 cm and locally up to 10-15cm grey blue quartz stringers, calcite filled fractures in quartz stringers, some late 0.5cm quartz-calite stringers, locally up to 2% pyrite in stringers 392.60 2 cm quartz-calcite stringer with calcite along upper contact, upper contact at 60 drill core angle. 5% pyrite, cavities, lower contact broken, schistose near upper contact. 387.25 Late QC stringers at 35 drill core angle & along core axis, 5-25 % pyrite but up to 50 % dissiminated pyrite in enclosing pyroclastic tuff and upper contact. 401.75 403.10 Silicification & quartz flooding 50% quartz stringers variable directions from 60 drill core angle to parallel to core axis, stringers broken by crenulation cleavage at 60 drill core angle. 403.05 Quartz calcite stringer at 40 drill core angle cutting across foliation at 60 drill core angle. 403.35 1.5 cm band of 0.2 cm quartz cacite chlorite stringers at 30 drill core angle cutting across foliation at 55 drill core angle. 403.50 404.50 Core broken with locally schistose & chloritized fractures at 50-60 drill core angle. 407.50 Sericitized & chloritized clasts strongly foliated at 55-60 drill core angle. 409.50 410.35 Network of crosscutting 0.5-1 cm quartz-calcite stringers, locally 2% pyrite.	845942 845943 845944 845945 845946 845947 845948 845949 845950 845956 845957 845958 845959 845960 845961 845962 845963 845964 845965 845966 845967 845968 845969 845970 845971 845972 845973 845974	372.00 373.50 375.00 376.50 378.00 379.50 381.00 382.50 384.00 385.50 387.00 388.50 390.00 391.50 393.00 394.50 396.00 397.50 398.86 400.05 401.50 402.88 404.50 406.00 407.50 409.00 410.00 411.24	373.50 375.00 376.50 378.00 379.50 381.00 382.50 384.00 385.50 387.00 388.50 390.00 391.50 393.00 394.50 396.00 397.50 398.86 400.05 401.50 402.88 404.50 406.00 407.50 409.00 410.00 411.24 412.11	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 1.50 1.36 1.19 1.45 1.38 1.62 1.50 1.50 1.50 1.00 1.24 .87	.000 .000 .060 .000 .000 .000 .000 .000 .000 .050 .080 .040 .000 .000 .000 .000 .070 .000 .000 .060 .000 .000 .000 .000 .000 .000 .000 .040			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			372.00 373.50 Pyroclastic tuff, 1% quartz calcite stringers, 0.5% dissminated pyrite. 373.50 375.00 Pyroclastic tuff, 1% quartz calcite stringers, 1% dissiminated pyrite. 375.00 376.50 Pyroclastic tuff, 3% quartz calcite stringers, 1-2% dissiminated pyrite. 376.50 378.00 Pyroclastic tuff, 10% clasts,1% dissiminated pyrite, fault gouge at 378. 378.00 379.50 Pyroclastic tuff, 3% quartz calcite stringers, 1% dissiminated pyrite. 379.50 381.00 Pyroclastic tuff, 2% quartz calcite stringers, 1% dissiminated pyrite. 381.00 382.50 Pyroclastic tuff, 10% clasts, 0.2 % dissiminated pyrite. 382.50 384.00 Pyroclastic tuff, 0.5% quartz calcite stringers, up to 2% pyrite in stringers. 384.00 385.50 Pyroclastic tuff, 3% quartz calcite stringers, 1% dissiminated pyrite. 385.50 387.00 Pyroclastic tuff, 1% quartz calcite stringers, 10% pyrite in dykes, <1% dissiminated pyrite. 387.00 388.50 Pyroclastic tuff, 5% quartz calcite stringers, 2-5% dissiminated pyrite. 388.50 390.00 Pyroclastic tuff, 15% quartz calcite stringers, 1% dissiminated pyrite. 390.00 391.50 Pyroclastic tuff, 15% quartz calcite stringers, 1% dissiminated pyrite. 391.50 393.00 Pyroclastic tuff, 5% quartz calcite stringers, 1-2% dissiminated pyrite. 393.00 394.50 Pyroclastic tuff, 0.5% quartz calcite stringers, 0.5% dissiminated pyrite. 394.50 396.00 Pyroclastic tuff, 1% late quartz calcite stringers & calcite stringers, 1-2% dissiminated pyrite. 396.00 397.50 Pyroclastic tuff, 0.5% quartz calcite stringers, 0.5% dissiminated pyrite. 397.50 398.86 Pyroclastic tuff, 1% quartz calcite stringers, 1% dissiminated pyrite. 398.86 400.05 Pyroclastic tuff, 2% quartz calcite stringers, 1% dissiminated pyrite. 400.05 401.50 Pyroclastic tuff, 2% quartz calcite stringers, 1-2% dissiminated pyrite. 401.50 402.88 Pyroclastic tuff, 25% quartz stringers & quartz calcite stringers, 5% dissiminated pyrite. 402.88 404.50 Pyroclastic tuff, 1% quartz calcite stringers, 1% dissiminated pyrite. 404.50 406.00 Pyroclastic tuff, 2% quartz calcite stringers, 1% dissiminated pyrite. 406.00 407.50 Pyroclastic tuff, 10% clasts, 0.5% quartz calcite stringers, 0.2% dissiminated pyrite. 407.50 409.00 Pyroclastic tuff, 15% clasts, 0.5% quartz calcite stringers, 2-3% dissiminated pyrite. 409.00 410.00 Pyroclastic tuff, 5% quartz calcite stringers, 2-3% dissiminated pyrite. 410.00 411.24 Pyroclastic tuff, 2-3% quartz calcite stringers, 1% dissiminated pyrite. 411.24 412.11 Talc chlorite schist, silicification, 10% dissiminated pyrite, 5% dissiminated PO.									
411.25	414.70		TALC-CHLORITE SCHIST Highly deformed mafic volcanic or pyroclastic tuff. Dark grey green to black fine-grained. From undeformed near upper contact to strongly deformed, quartz+calcite stringers strongly foliated at 45 drill core angle. Boudinage of stringers and microfolding of stringers & local 2cm shear zone. Locally pervasive silicification, pyritization + pyrrhotite. 3 to 10 % 1-3 mm pyrite in silicified zones and in deformed stringers. Carbonitization of the matrix 412.5 413.13 zones of nebulitic matrix cut by shear zones at 50 drill core angle. Contain stringer blebs. Upper contact at 65 drill core angle, core broken. 412.11 413.13 Talc chlorite schist, strong foliation at 45 drill core angle, 10% quartz calcite stringers,10% pyrite,5% PO.	845975	412.11	413.13	1.02	.000			
414.70	416.80		TUFFACEOUS PYROCLASTIC Medium to dark grey. Fine-grained alternating with medium-grained layers. Non Magnetic. Moderately hard. Overall 2% quartz-ankerite stringers at 20 drill core angle. Near lower contact 2 to 35% pyrite. 416.45 0.5 cm quartz-ankerite stringer at 20 drill core angle. 416.70 1cm quartz-ankerite stringer at 25 drill core angle.									
416.80	441.25		MASSIVE MAFIC VOLCANIC TALC-CHLORITE SCHIST Dark grey to medium grey to black. Fine-grained black mafic volcanic fragments mixed with medium-grained fragments of pyroclastic tuff. Moderately soft mafic volcanic and moderately hard pyroclastic tuff. Volcanic fragments moderately magnetic. Fragments foliated at 40 drill core angle. Strong foliation and schistosity at 55 drill core angle. Locally massive volcanic protolith undeformed fragments in brecciated matrix filled by calcite. 418.50 Grey porphyry fragment. Fine-grained. Subrounded. Stretched at 40-50 drill core angle. 421.60 Stretched and schistose at 45-50drill core angle. Blocky, core broken. 430.25 430.35 Fault gouge. Lower contact at 40 drill core angle. Upper contact broken.									
441.25	444.00		FAULT ZONE Blocky, schistosity at 50 drill core angle. 2-3% quartz-ankerite stringers.									
444.00	508.50		MASSIVE ULTRAMAFIC VOLCANIC TALC-CHLORITE SCHIST Dark green. Medium-grained. Volcanic breccia fragments. Rare spinifex texture in medium-grained									

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			matrix. Locally vesicular filled by late calcite Moderately soft. Magnetic matrix. Overall 10% late calcite stringers filling fractures. 1-2 % dissiminated lenticular 1-5mm pyrite and 1-2% very fine grained magnetite. 449.70 450.00 Fault gouge blocky at 60 drill core angle. 450.10 1.50 m of core missing. 455.85 2 cm fault gouge at 70 drill core angle. 458.05 458.20 Fault gouge at 60 drill core angle, core broken. 476.10 15 cm fault gouge, upper contact at 60 drill core angle. 486.05 486.25 Fault gouge at 45 drill core angle. Fragments foliated in gouge at 40-45 drill core angle. 487.85 3cm quartz stringer at 50 drill core angle. 495.30 3cm several calcite chlorite stringers at 50 drill core angle. 500.80 501.00 Brecciated & stretched calcite chlorite stringer between serpentinized black pillow lava. 501.55 501.95 Fault gouge upper contact at 60 drill core angle, schistosity at 50-60 drill core angle. 505.00 505.35 Fault gouge upper contact at 30 drill core angle.								
508.50	511.00		TALC-CHLORITE SCHIST MASSIVE ULTRAMAFIC VOLCANIC Similar to massive ultramafic above. Dark green to grey. Locally pale green Overall 15% quartz calcite chlorite stringers locally deformed.								
511.00	512.50		FAULT ZONE Dark green. Fine-grained. Schistosity at 50 drill core angle. Upper contact at 50 drill core angle. Overall 15% quartz calcite stringers often deformed. 512.15 5cm fault gouge blocky and schistose at 70 drill core angle.								
512.50	516.20		TALC-CHLORITE SCHIST Similar to above. Foliated fragments at 50-60 drill core angle. Overall 1-2% very fine-grained pyrite. Locally silicified. 514.90 8cm fault gouge at 50 drill core angle.								
516.20	519.35		FAULT ZONE Similar to above. 517.00 518.15 brecciated and silicified talc chlorite schist deformed at 0 drill core angle and cutting schsitosity at 30 drill core angle. 516.40 516.60 Fault gouge, blocky, crumbly, at 60 drill core angle. 517.10 517.25 Fault gouge, blocky, at 70 drill core angle. 519.00 519.35 Fault gouge, schistose at 50-60 drill core angle.								
519.35	527.60		TALC-CHLORITE SCHIST Similar to above. Strong foliation at 45 drill core angle. 25% quartz calcite stringers at 65 drill core angle. 1-2% dissiminated pyrite. Local fault gouge and small diabase dyke. 521.80 522.00 Fault gouge, blocky at 60 drill core angle. 522.20 522.75 Fault gouge, blocky & schistose at 20-40 drill core angle. 522.45 522.55 Diabase dyke. Black. Fine-grained. Moderatel soft. Non magnetic. Upper contact at 60 and lower contact at 70 drill core angle. 525.05 525.20 Diabase dyke. Similar to above. Upper contact broken at 70 and lower contact at 60 drill core angle. 526.60 527.50 Coarse diabase,5% ankerite stringer at 40 drill core angle,1% 6CM quartz stringer at 70 drill core angle,15% dissiminated pyrite. 527.50 528.80 Coarse diabase,3% ankerite stringer at 20 & 70drill core angle,1% 9CM quartz stringer,15% dissiminated pyrite.	845933 845934	526.60 527.50	527.50 528.80	.90 1.30	.000 .000			
527.60	528.50		MEDIUM-COARSE-GRAINED DIABASE Black to dark grey, coarse-grained, moderately soft, strongly magnetic, 1-2mm black subeuhedral amph, 1mm interstital grey white plagioclase 2 to 15 % dissiminated 1-2mm pyrite, locally patchy pyrit eover 1-3cm, 1-2% chalcopyrite. 0.5% euhedral magnetite 526.84 6cm quartz stringer lower contact at 65 drill core angle, core broken, upper contact at 70 drill core angle,10% dissiminated pyrite in chlorite filling fracture in quartz stringers. 527.5 2-5mm Quartz chlorite stringers at 40 drill core angle with 2% dissiminated pyrite along stringer walls. 528.47 9cm quartz stringer, lower contact at 90 drill core angle variable, upper contact at 90 drill core angle, 1/3 of vein displaced by 10 cm cut by 1.5cm calcite stringer along core axis. 1cm black chlorite +pyrite +magnetite filling quartz stringer.								
528.50	539.40		TALC-CHLORITE SCHIST Dark grey to dark green. Fine-grained. Moderately soft. Magnetic. Schistosity at 60 drill core	822522	533.90	535.00	1.10	.000			

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			angle. Stretched subrounded fragments 1-2 cm in schistose matrix. Broken upper contact at 80 drill core angle. 533.90 535.00 Feldspar porphyry, silification, hematization, 15-20% pyrite. 535.00 536.50 Talc chlorite schist, foliation, stretching, 3% pyrite. 536.50 537.50 Grey feldspar porphyry, 15% quartz-feldspar stringers, sericite, 3-5% pyrite. 538.40 539.50 Grey feldspar porphyry, 25% quartz-feldspar, 5-30% tourmaline, sericite, 5% pyrite.	822523 822524 822525	535.00 536.50 538.40	536.50 537.50 539.50	1.50 1.00 1.10	.000 .000 .000			
539.40	552.45		GREY FELDSPAR PORPHYRY 539.40 Fault gouge over 0.5 cm along porphyry fragment at 40 drill core angle. Pale grey to white. Locally buff to green. Pinkish along some stringers. Lower levels 544.00 552.45 medium to dark grey and more melanocratic. Medium to coarse-grained. 1-2 cm beige brown to grey feldspar. Locally greenish epidote after feldspar. Interstitial pink feldspar and associated to quartz in late stringers. Overall pervasive 5-25% 1-3mm sericite flakes. Silicification and locally carbonatization. Overall 1-2% tourmaline but locally up to 15% of 1-5mm acicular tourmaline replaced by chlorite. 539.00 4.5cm quartz-K feldspar at 70 drill core angle. 539.20 539.35 Black grey matrix with 40% beige 1cm feldspar phenocrysts. Chlorite after tourmaline?, moderately soft matrix. Weakly magnetic. Upper contact at 90 drill core angle and lower contact at 50 drill core angle. Lower contact defined by 1cm fine-grained chloritic material. 539.60 540.00 Fine-grained beige silification & hematitization, core broken. Upper contact at 55 drill core angle. Late chloritic stringer at 60 drill core angle. Overall 5% of 1mm pyrite. 541.60 5 cm quartz-K feldspar stringer, upper contact at 45 drill core angle and lower contact at 25 drill core angle. 541.75 2cm quartz-K feldspar stringer. Upper contact at 90 drill core angle and lower contact at 60 drill core angle. 544.40 552.45 Porphyry is more melanocratic. Overall 10-15% quartz-K feldspar stringers and 5% pyrite. Locally up to 25% sericte, carbonatization and 5 to 20% chlorite after tourmaline. 548.85 3.5 cm buff greenish quartz-feldspar stringer at 30-35 drill core angle, lower contact bounded carbonatized zone over 10 cm. 551.25 551.30 1-2 mm quartz-feldspar discontinous stringers parallel at 40 drill core angle containing acicular tourmaline. 539.50 540.50 Grey feldspar porphyry, 30% quartz-feldspar stringers, sericite, 2-3% pyrite. 540.50 541.50 Grey feldspar porphyry, 10-15 quartz-feldspar strinegrs, sericite, 5% tourmaline. 541.50 543.00 Grey feldspar porphyry, 15% quartz-feldspar stringers, 5-10% sericite, 1-2% tourmaline. 543.00 544.40 Grey feldspar porphyry, 10-15% quartz-feldspar stringers, sericite, silica. 544.40 546.00 Grey feldspar porphyry, 5-10% quartz-feldspar stringers, silica, carbonate. 546.00 547.50 Grey feldspar porphyry, 15% quartz-feldspar stringers, 10% sericite, 2-3% pyrite. 547.50 549.00 Grey feldspar porphyry, 15-20% quartz-feldspar stringers, silica, carbonate. 549.00 550.00 Grey feldspar porphyry, 20% quartz-feldspar stringers, 10% sericite, silica, carbonate. 550.00 550.95 Grey feldspar porphyry, 10-20% sericite, 10% tourmaline, 5-10% pyrite.	822526 822527 822528 822529 822530 822531 822532 822533 822534	539.50 540.50 541.50 543.00 544.40 546.00 547.50 549.00 550.00	540.50 541.50 543.00 544.40 546.00 547.50 549.00 550.00 550.95	1.00 1.00 1.50 1.40 1.60 1.50 1.50 1.00 .95	.000 .000 .000 .000 .000 .000 .000 .000 .000			
552.45	568.95		MASSIVE ULTRAMAFIC VOLCANIC TALC-CHLORITE SCHIST Black to dark grey blue. Fine to medium-grained. Massive. Rare spinifex texture in center of pillow. Brecciated pillow fragments. Calcite filling fractures around fragments from 2-15%. Overall 2-5% pyrite interstitial around fragments. Locally schistose serpentine and chlorite along fractures at 50-60 drill core angle. Moderately soft. Overall weak to magnetic. 551.50 552.00 core all broken in 1-2cm blocks. 554.15 Fault gouge over 2cm, schistosity at 70 drill core angle.									
568.95	569.40		FAULT ZONE Upper contact at 80 and lower contact at 75 drill core angles, contact broken schistosity at 70 drill core angle.								
569.40	571.70		MASSIVE ULTRAMAFIC VOLCANIC Similar to above. Pillow breccia texture.								
571.70	575.70		CONGLOMERATE GREYWACKE Transition zone of alternating 90% conglomerate and 10% greywacke beds. The % of greywacke increases at depth. 571.70 574.40 Grey to dark grey dominant conglomerate. Coarse-grained with 10 to 40% of 1-5 cm rock pebbles mainly of volcanic fragments, quartzite, argillite. Stretched and foliated pebbles at 60 drill core angle. Moderately hard to soft. Non magnetic except for some volcanic pebbles. Local stlump structures along contact between									

2.20634

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	To (m)	Lngth (m)	AU (g/t)	AU		
			overlying conglomerate and underlying greywacke. Overall 1-5% very fine-grained pyrite forming 0.5-1cm lenses along schistosity and rimming pebbles.								
			574.40 574.60 Greywacke bed. Medium grey. Fine-grained. Upper contact at 70 drill core angle. Quartz-ankerite stringer along lower contact at 50 drill core angle. Schistose lower contact with 25-35% pyrite splash along fracture.								
575.70	585.00		GREYWACKE ARGILLITE Alternating greywacke and argillite beds. From 575.70 to 578.25 85% greywacke and 15% argillite. Medium to dark grey greywacke and black argillite. Fine to medium-grained greywacke and fine-grained argillite. Moderately hard greywacke and hard argillite. Overall non magnetic except locally when dissiminated pyrrhotite is present in late stringers and around fragments. Overall 1-3% stringers but locally up to 15% quartz calcite stringers. Overall 1-3% cubic 1-5 mm pyrite and 1% pyrrhotite. 578.25 0.5 cm late quartz calcite stringer at 15 drill core angle. 578.65 579.70 Core cut by 15-25% quartz calcite stringers. 579.10 2 cm quartz calcite stringer. Upper and lower contacts at 20 drill core angle. 579.60 2 to 8cm quartz calcite filling fracture at 10-20 drill core angle. 580.00 585.00 60-70% argillite and 20-30% greywacke. Contact argillite with greywacke at 60-65 dril core angle. Argillite locally silica-rich. Slump structure along greywacke with argillite contact between 580.85 581.10. 580.50 5cm Quartz calcite stringer. Upper contact at 70 & lower contact at 50 drill core angles. 584.35 1cm quartz calcite pyrite+pyrrhotite stringer at 30 drill core angle.								
585.00			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)
W0060.00403
Assessment Files Research Imaging

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 lorthern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

42A10SW2022 2.20634 STOCK 900

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

2.20634

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

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

		Office Use
Work Type **Surface Diamond Drilling S98-18** ✓		Commodity
		Total $ Value of Work Claimed $43,274
Dates Work Performed From 9 (Day) DEC (Month) 1998 (Year) To 23 (Day) DEC (Month) 1998 (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.

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

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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 Kian A Jensen.		Date October 6, 2000
Agent's Address RR#2, Matheson, Ontario P0K 1N0	Telephone Number 705-273-2525	Fax Number 705-273-3333

0241 (03.99)

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8:45 AM
PORCUPINE MINING DIVISION

Dated January 11, 2001.

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

W0960.00403

	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	$4,892
00330	**Lease 104881-2, Parcel 271**	**64 ha**	**$ 43,274**			**$ 43,274**
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Column Totals		**$ 43,274**			**$ 43,274**

I, Kian A. Jensen, do hereby certify that the above work credits are eligible under
(Print Full Name)
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 October 6, 2000
Kian Jensen	

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

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

0241 (03/97)

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GEOSCIENCE ASSESSMENT OFFICE

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W0000.00403

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	1919 feet	$ 20.46 / foot	$ 39,266.43
Geologist	10 Days	$ 185.00	1,850.00
Drafting/Supervision	1 Days	$ 300.00	300.00
Assays	177 Samples	$ 10.50	1,858.50
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	$ 43,274.93

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GEOSCIENCE ASSESSMENT OFFICE

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 (please print full name), 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 (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: Kian Jensen. Date: October 6, 2000

0212 (03/97)

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OCT 18 2000
8:45 AM
PORCUPINE MINING DIVISION

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) 415-9845
Fax: (877) 670-1555

December 1, 2000

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

Dear Sir or Madam:

Submission Number: 2.20634

Subject: Transaction Number(s):		**Status**
	W0060.00403	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 JIM MCAULEY by e-mail at james.mcauley@ndm.gov.on.ca or by telephone at (705) 670-5880.

Yours sincerely,

Lucille Jerome

ORIGINAL SIGNED BY
Lucille Jerome
Acting Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 15465
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.20634

Date Correspondence Sent: December 01, 2000 **Assessor:** JIM MCAULEY

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0060.00403	Parcel 271	STOCK	Approval	November 28, 2000

Section:
16 Drilling PDRILL

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

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

Kian A. Jensen
MATHESON, ONTARIO, CANADA

ST. ANDREW GOLDFIELDS LTD.
TORONTO, Ontario

Correspondence ID: 15465

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.	188643
(R2) Application pending under P.L.A. for surface rights				
(R3) Sect. 1 W-25/83 reservation under the Beds of Navigable Waters Act.		July 15/83	M.R.O.	

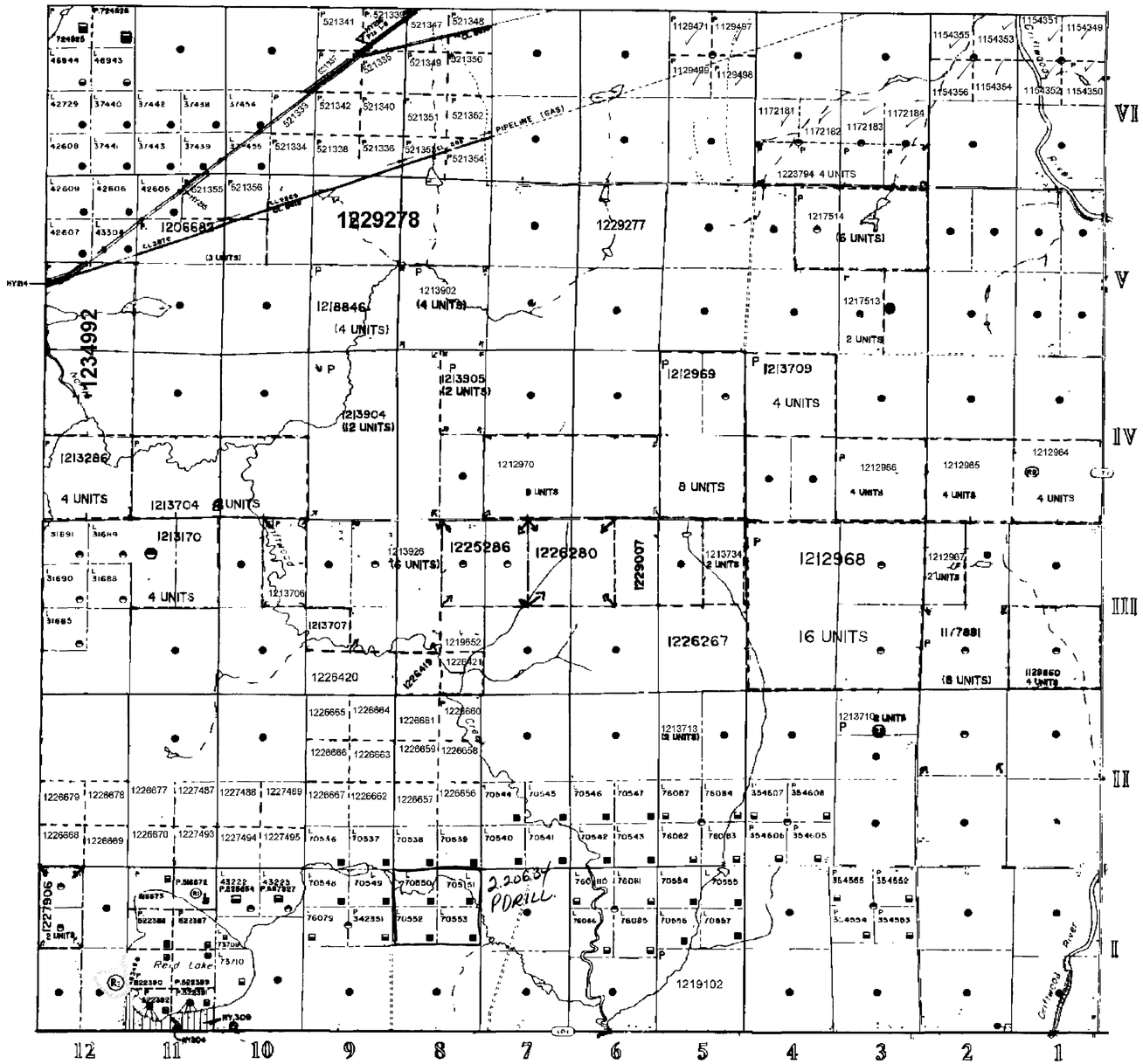
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

CLERGUE TWP.

GERMAN TWP.

TAYLOR TWP.

BOND 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 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	Y
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. 6. SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 2000 (1 KM) (2 KM.)

TOWNSHIP

STOCK

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

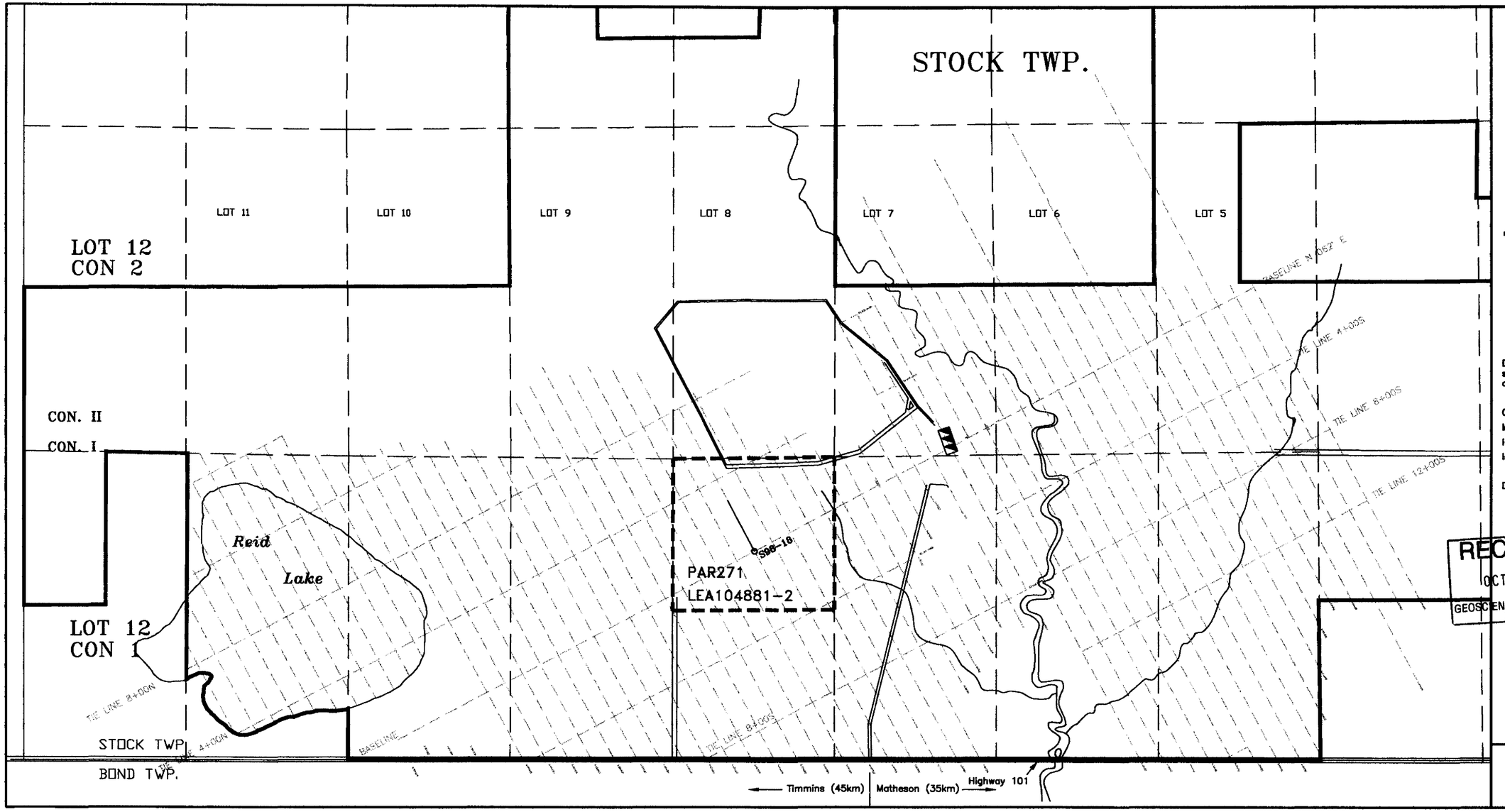
Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH, 1985

Number G-3248

ACTIVATED APR. 25/90 D.C.

42A10SW2022 2.20634 STOCK 200



LEGEND

S98-18 — DDH: location & hole number

Mine buildings

Property boundary

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 S98-18 is located approx. 1533.4 feet south and 1297.1 feet west of the NE corner of the N1/2 of Lot 8, Concession I

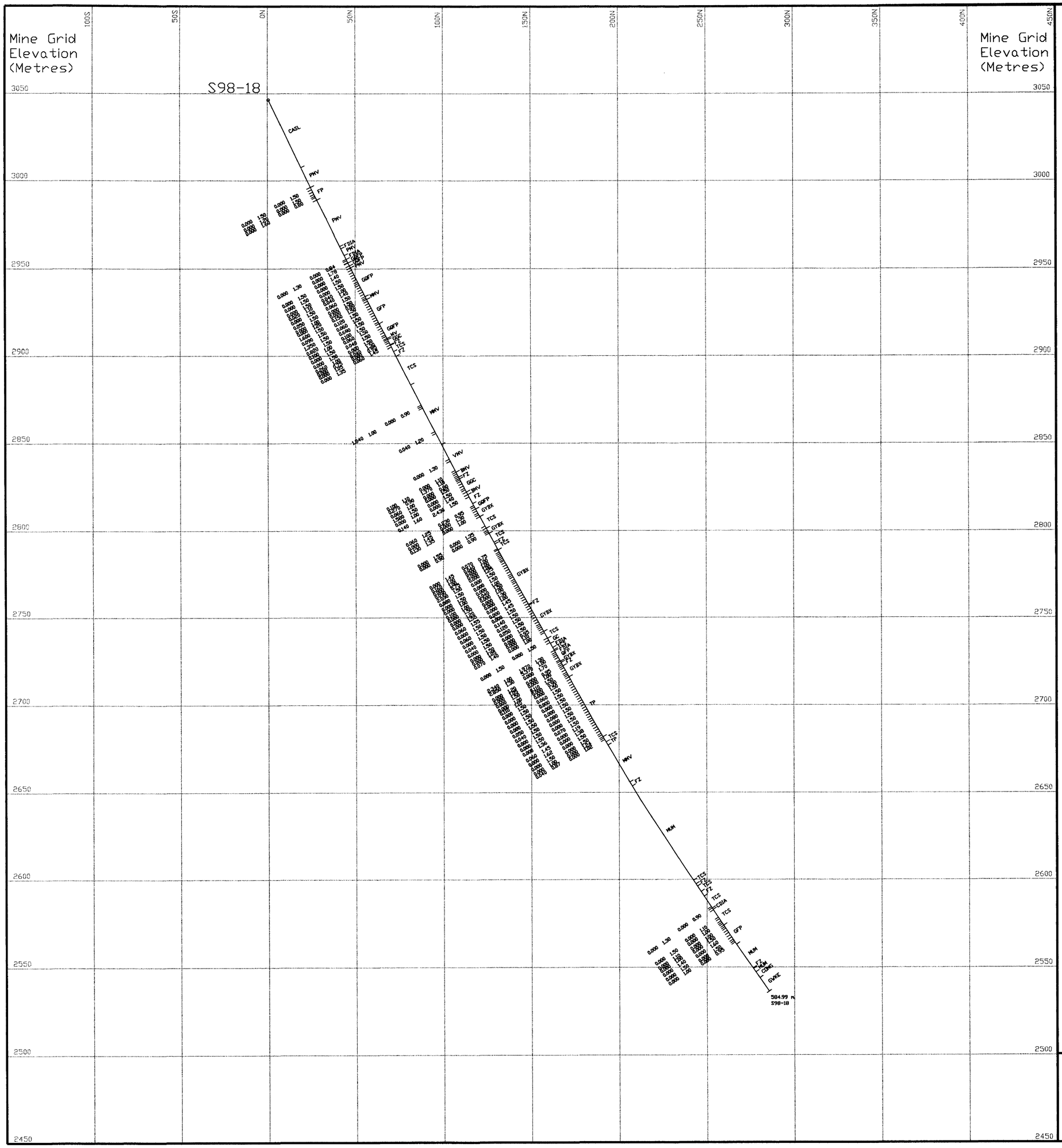
Collar at:
Metric Cut Grid: Line 10+00m West 0+00m North
Imperial Mine Section: 32+80.8 West at 0+00 North
Imperial Mine Co-ordinates:
3409.416 North, 1631.050 East
DDH ~~S98-1~~ S98-18 Azi=332° Dip=-65°

12°W

Scale

ST ANDREW GOLDFIELDS LTD.
Stock Mine
Plan View: DDHs S98-18

FILE NAME: STK-Plan-S98-18.dwg
DATE: November 16, 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

DDH S98–18 is located approx. 1533.4 feet south and 1297.1 feet west of the NE corner of the N1/2 of Lot 8, Concession I

Collar at:

Metric Cut Grid: Line 10+00m West 0+00m North

Imperial Mine Section: 32+80.8 West at 0+00 North

Imperial Mine Co–ordinates:

3409.416 North, 1631.050 East

DDH ~~STK98–1~~ S98-18 Azi=332° Dip=–65°

50 0 50 100

meters

ST ANDREW GOLDFIELDS LTD.

DDH S98-18 (Looking N 242 °E)

FILE NAME: S98–18.dwg

DATE: November 16, 1999