APPENDIX I

CORE LOGS

Drill Hole Record

LOCATION: SHORE ZONE | ELEVATION: 1393.72 M | CO-ORDINATES: 5160.32 S 3731.08 E

HOR. COMP: | VERT. COMP: | BEARING: 025° | BEGAN: AUG 1/87 | COMPLETED: | CORE SIZE: BQ | RECOVERY: 99.5%

HOLE NO. S-87-182 | Sheet: 1 of 11 | LOGGED BY: J. LIND | SAMPLED BY: K. CH

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	Au oz/t	
0	1.52	0	OVBD	OVERBURDEN - BOULDER TILL CASING																
1.52	3.00	0		NO CORE RECOVERED																
3.00	11.05	8.05	QCSW	QUARTZ CALCITE STOCKWORK	70 5-15	40	1-3		5	1-3	T	T	T-1	T-L	U-00251	3.00	3.80	0.80	0.019	0.02
				VEINING IN HIGHLY BLEACHED AND SILICIFIED											U-00252	3.80	4.00	0.20	[illegible]	[illegible]
				PALE GREY-GREEN FELDSPAR PORPHYRY											U-00253	4.00	5.50	1.50	0.016	0.015
				TUFF. (ou) in [illegible] calcite veining											U-00254	5.50	7.00	1.50	0.013	0.011
				QTZ CALCITE VEINING 05°, 015°, 09?°, 08?-90°											U-00255	7.00	8.10	1.10	0.011	0.016
				TO CA. Q-CALCITE GASH VEINS AND											U-00256	8.10	10.25	2.15	0.049	0.018
				Q CALCITE PYRITE & SULPHOSALTS IN											U-00257	10.25	11.05	0.80	0.127	5.612
				LATE STAGE FRACTURES - 5.50-6.20 ESP											U-00258	11.05	12.60	1.55	0.011	0.160
				PY AS STRINGERS AND DISSEMINATIONS																
				THROUGHOUT WALL ROCK.																
				FINELY DISSEM ARSENOPYRITE RIMMING PY																
				7.85 - 3.90 - ELECTRUM 700-800 FINE	* ELECTRUM															
				IN 85° TO CA 1cm Q CARB. VEIN.																
				PY AND Q CAL VEINLETS 45, 05° TO C.A.																
				75° FROM EACH OTHER - THIN STOCKWORK??																
				3.00 - 6.20 - NUMEROUS WEATHERED FRACTURES																
				& JOINTS																
				GREEN CALCITE CHLORITE REPLACING FELDSPAR																
				PHENOCRYST GRAINS THROUGHOUT																
				SHARP CONTACT 40° TO CA																
11.05	16.90		QTVN	MASSIVE WHITE QUARTZ CARBONATE VEIN	95	20	T		5-10	T-2	T?		T							
				RELICT BLEACH FRAGS ARE SILICIFIED																
				AND INJECTED BY 2 OR MORE QUARTZ																
				FOLLOWED BY Q CARB VEINING. PY AND																
				AG SULPHOSALTS CONCENTRATED ALONG																
				VEIN MARGINS @ W ROCK.																
				11.05 - 12.95 - OXIDIZED VEIN - CARBONATE																
				LEACHED OUT LEAVING ANGULAR VUGS																

INTERVAL (ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAY Au oz/t	A[illegible]
				QVEIN CONT'D											U-00?57	12.60	14.?	1.60	0.010	0.16
				DISS PY & OTHER SULPHIDES RANDOM											U-00260	14.20	15.??	1.60	0.009	0.186
				WITHIN VEIN											U-002??	15.80	16.80	1.00	0.009	0.19
				12.55–14.19m INTENSE SILICIFICATION OF						1-2	T	T	T-1							
				WACKE FRACT & ARG PY MINERALIZATION																
				AS DISSEMINATIONS & BLEBS.																
				14.19m SHARP CONTACT TO MASSIVE WHITE																
				QUARTZ CARBONATE VEINING	70	10-10	T		2-10	T-3	T-1	T	T-1							
				DIS SPHAL, PY, ARG. STRINGERS ALONG VEIN																
16.4	16.59		QCSW	AND SILICIFIED WACKE CONTACTS.																
				16.40m - CONCENTRATION OF MINERALIZATION	75%	0.0	T		2-5	T	-	-	1-5%	-		?				
				Argentite with pyrite in stringers with the pyrite																
				on the inside and argentite stringers are 1-3mm																
				wide.																
				16.46m: Fracture, oxidized, rusty colour, fizzes with																
				HCl, calcite present, 46° CBA																
				16.46m–16.59m – quartz veining, so intense looks																
				to be stockwork or breccia											U-00262	16.80	17.53	.73m	0.215	5.53
			QCSW	16.59–16.86 – Large calcite-quartz vein with																
				dendritic rusty fractures rusty colour, CBA																
				of vein is 50°																
			QCSW	16.86–17.53 highly intensive qtz veining, width varies																
				from 1cm to 0.5cm, CBA 25°, calcite present <10%																
				probable alteration of plagioclase → carbonate																
				Small, narrow veinlets of quartz, 1-2mm in																
				width, offsetting apparent in veinlets with																
				[illegible] displacement, left lateral in [illegible]																
				argentite [illegible] in small veinlets as well as larger																
				[illegible], larger veins the argentite [illegible].																
				from veinlets to wall rock																
				disseminated pyrite throughout, with higher																
				concentrations of pyrite in [illegible] rock, 5-10%																

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
17.53	18.16	.63m 100%		17.53 to 18.16 – Increase in fracturing – ATP... rusty pink red alteration present in core. Argentite present in wall rock next to narrow stringers of quartz/carbonate · CBA of vein – 51° - width of rusty alteration zone – CBA – 45° 43°	65	-	Tr	-	-	5	-	-	7-10	-	00263 00264	17.53 18.16	18.16 18.92	.63m .76m	0.011 0.013	0.02 0.14
18.16	18.92	.39m 98.6%	QTSW	- quartz stockwork CBA 45°, vein intersection acute angle of 30 - quartz, milky white with argentite present along edge of vein in contact between wall rock. Wall rock is DCDP. DACITE PORPHYRY Thickness of veins is 5mm to 35mm in width Narrow 1-2mm wide stringers of pyrite-argentite, pyrite in centre and argentite [illegible] along edge of stringer		60				1-3	-	-	3-5	-						
18.92	23.01m	4.09m 40% CORE LOSS	QTSW	CORE IS BROKEN INTO SMALLER FRAGMENTS, RUSTY ALTERATION ALONG FRACTURE LINES, [illegible] LEACHING OF CALCITE IN VEINS TO [illegible]. No [illegible] OF SPACES CREATED. BROKEN PIECES RANGE IN SIZE FROM 3mm to 10cm, FRACTURES ARE IN FACT LEACHED CALCITE/QTZ VEINS WITH OXIDIZED PYRITE ON SURFACE. GOSSAN PRESENT ALONG VUGS CREATED BY LEACHING V.G present, small < 1mm flake.		90	Tr	-		1-3	-	-	7-10		(NOTE) 50% CORE LOSS ATP 00265 00266 00267	 18.92 21.27 22.12	 21.27 22.12 23.19	 2.35m 0.85m 1.07m	 0.021 0.012 0.012	 0.26 0.02 0.19
23.01	24.90		QTSW	QUARTZ STOCKWORK WITH SOME CALCITE PRESENT, mineralization seems to increase with increased calcite concentration. SMALL STRINGERS OF QUARTZ [illegible] [illegible] STRINGERS SEEM TO GIVE GOOD CBA - 45-50° ARGENTITE PRESENT, 7-10%, ASSOCIATED WITH STRINGERS & QUARTZ VEINLETS	60 70	10	1-3			5-10	-	-	7-10	-	00268	23.19	24.90	1.71m	0.026	0.08
24.90	25.16		QTBX	KNOTS OF [illegible] long 1-2mm wide 25.10: fracture with [illegible] SURFACE. SIZE OF WALLROCK FRAGMENTS 1mm to 7mm WITH CONCENTRATION OF FRAGS 65-70% with QUARTZ/CALCITE AS THE SUPPORTING MATRIX											00269	24.90	25.20	.30m	0.025	0.03

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Ang	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
15.36m	31.80	99.5%	QCSW	QUARTZ/CALCITE STOCKWORK - 5mm veins of calcite	65	20	1-3	-	-	3-5			5-10							
				QUARTZ WITH A CBA OF 90° ARE INTERSECTED BY SMALLER																
				1-3mm VEINS. CBA OF 1-3mm VEINLETS ARE 90°.											00270	25.20	26.57	1.37m	0.021	0.09
				GIVING A LEFT LATERAL DISPLACEMENT - DISPLACEMENT																
				RANGES FROM 2mm to 5mm. Tetrahedrite and											00271	26.57	27.44	.87m	0.019	0.15
				Pyrite occur TOGETHER, IN DISSEMINATED																
				KNOTS PYRITE AND TETRAHEDRITE COMPRISING 10% of										[illegible] 93cm [illegible]	00272	27.44	29.44	1.57m	0.021	0.30
				TOTAL CORE [illegible] PERCENTAGE. THE [illegible]																
				INTENSIFIES AS ONE APPROACHES 31.80 m.											00273	29.44	30.80	1.36m	0.023	0.01
				26.72m SMALL VUGGY SECTION - 3cm in width																
				with LEACHING OF CARBONATE TO FORM A GOSSANOUS																
				ZONE																
				27.10 SAME TYPE OF GOSSANOUS ZONE, 3cm wide.																
				29.94-29.97 : GOSSANOUS LEACHED ZONE, CBA - 53°																
31.80	34.64	99%	QCBX	QUARTZ CALCITE BX CALCITE QUARTZ [illegible]		80	1-2	-	-	2-5			5-10		00274	30.80	32.00	1.20m	0.015	0.09
				WALL ROCK FORMING BRECCIA DUE TO WALL ROCK																
				FRACTURING, WALL RX FRAGMENTS < 4%, [illegible]											00275	32.00	33.22	1.22m	0.019	0.25
				FRAGMENTS [illegible] PYRITE, TETRAHEDRITE MIN-																
				ERALIZATION, WITH STRINGERS OF TETRAHEDRITE, LOOKS											00276	33.22	34.64	1.42m	0.024	0.21
				TO BE POST BRECCIATION, STRINGERS < 1mm in width																
				BRECCIATION CLASTS RANGE IN SIZE FROM 2mm to																
				7cm, subangular to angular.																
.4	38.84	98%	QCVN	34.64 to 34.86 - EXCELLENT QUARTZ/CALCITE VEINING	95					Tr	-	-	1-2	-	00277	34.64	36.06	1.42	0.011	0.20
				WITH SMALL KNOTS OF TETRAHEDRITE, SIZE IS 1-5mm																
				COMPRISING 1-5% OF WHOLE ROCK PERCENTAGE																
			QC BX	34.86 - 34.91 - NARROW BAND OF QUARTZ/CALCITE											00278	36.06	37.30	1.24	0.010	0.01
				BRECCIA, CLASTS ARE 2½ cm x 2½ cm, SUBANGULAR											00279	37.30	38.31	1.01	0.013	0.01
				TO ANGULAR CAST IN NARROW BAND THAT HAVE SOME																
				TETRAHEDRITE, WITH DISSEMINATED GRAINS OF PYRITE											00280	38.31	38.84	0.53	0.016	0.20*
			QCVN	34.91 - 38.84 - QUARTZ/CALCITE VEINING, NARROW																
				VEINS OF TETRAHEDRITE PRESENT, DISSEMINATED																
				TETRAHEDRITE - 1-5% of WHOLE ROCK. 35.45m																
				small vug with drusy quartz growth and																
				GOSSAN																

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Ang (TET)	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
38.84	39.78	.94m	QCBX	High percentage of matrix is calcite, 75-85% low in quartz. Fragments of wall rock are grey green subrounded to subangular rich in tetrahedrite and pyrite some small stringers of tetrahedrite/pyrite, 1-2mm in width, these are not common. Percentage of clasts 25%, mineralization is kept to small rock fragments and little mineralization is present in calcite veins. Clast size ranges from 1mm to 5cm average is ~1-2cm. Missing 5cm.	75	–	1	–	–	1-2			3-5		00281	38.84	39.78	.94m	0.022	0.18
39.78	40.22	.29m	QCSW	Narrow zone .29m stringers of veins present 1-2mm in width tetrahedrite/pyrite, should have high Ag values. ATP. Wall rock dacite lapilli tuff disseminated tetra/pyrite in wall rock ~ wall rock ~75% of wall rock percentage. Missing 15cm core.	10%					5			15%		00282	39.78	40.22	.44 (missing 15cm)	0.011	0.05
40.22	41.35	1.12m	QCVN	Quartz calcite veining, large percentage is calcite. Clasts of wall rock are present <5% size ranges from .5cm to 6cm in width. Pyrite/tetrahedrite present in fragments pyrite disseminated, grains <1mm to 1mm in width. Clean white quartz/calcite [illegible]	85					5			10		00283	40.22	41.35	1.13m	0.011	0.06
41.35	43.65	2.3m	QCBx	Quartz calcite breccia high percentage of intrusive veins are quartz with interstitial calcite 85% quartz 15% calcite. Fragments make up ~2% of whole [illegible] calcite in places. Buff weathering stretches present on some [illegible]. 42.08 - 42.30m: good dacite lapilli tuff, some quartz calcite veining 10%, looks to be large fragment! 22cm in length of core. Disseminated pyrite ~3-5% with tetrahedrite disseminated through out fragment. Calcite vein is irregular with some pyrite grains although mineralization sticks with wall	85		1			1-3			10	<1	00284	41.35	42.31	.96m	0.028	4.23
															00285	42.31	43.66	1.35m	0.015	0.02

Sheet: 6 of

Interval (Specify ft or m) From	To	Recov.	Rock Type	Description	Alteration Qv	Q	S	K	Ca	Sulphides Py	Sp	Ga	Arg	Pyr	Sample No.	From	To	Width	Assays Au oz/t	Ag oz/t
43.66	44.59	.93m	QCVN	MOTTLED MILKY WHITE WITH INTERSTITIAL CALCITE PRESENT. SMALL 1-2mm WIDE STRINGER OF PYRITE / TETRAHEDRITE IRREGULAR VEIN, NO CBA AVAILABLE, THIS STRINGER PRESENT AT 43.90m MINERALIZATION SEEMS TO ONLY BE IN HIGH CONCENTRATION WHEN ASSOCIATED WITH WALL ROCK	90		1			3-5			5-7	1	00286	43.66	44.59	.93m	0.010	0.14
44.59	45.24	.65m	QCBX	CALCITE CONCENTRATION IN VEINS IS ~25-30% WITH QUARTZ MAKING UP THE OTHER 65 TO 70% OF VEINS. VEINS MAKE UP 50-55% OF WHOLE ROCK PERCENTAGE. DCLT MAKES UP WALL ROCK 45-50% OF WHOLE ROCK PERCENTAGE. CLASTS ARE SUBANGULAR TO SUBROUNDED RANGE IN SIZE 1-4 CM wide. Some SMALLER FRAGMENTS ARE LIGHT GREEN, EPIDOTIZED. PYRITE/TETRAHEDRITE ISOLATED IN FRAGMENTS PYRITE - 1-3% TTRA - 1-3%. CONTACT BETWEEN QCBX IS IRREGULAR	55	10				1-3		Tr	1-3		00287	44.59	45.24	.65m	0.009	0.01
45.24	46.47	1.23m	QCSW.	QUARTZ CALCITE STOCKWORK, ATP THERE IS TWO VEIN SETS, SET 1 - OLDER, CBA ~10-15° TO 45°, ENASMOPLASD VEIN, IRREGULAR DUE TO SMALLER 2ND STAGE VEINS WHICH HAVE A RIGHT LATERAL STRIKE SLIP, WITH DISPLACEMENT 2mm to 1cm; THICKNESS 5mm to 15mm SET 2 - YOUNGER - THIN <1mm to 2mm GIVES INDICATION OF HIGHER CONCENTRATION OF MINERALIZATION ALONG THESE VEINS - CBA: 85-90°. OBVIOUS LATER STAGE VEINING DUE TO DISPLACEMENT ALONG LARGER VEINS WALL ROCK, DCLT, WITH SMALL GRAINS OF PYRITE AND TETRAHEDRITE. <1mm wide RANDOM LOOKS TO BE REPLACEMENT OF GRAINS. PERCENTAGE OF WALL ROCK 25 [illegible] GREY 8-45 FINE GRAINED MATRIX. PYRITE - 15% TETRAHEDRITE - 10% CONTACT BETWEEN QCSW AND QCVN HAS A CBA OF 20°											00288	45.24	46.47	1.23m	0.009	0.01

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
46.47	47.08	.61	QCVN	QUARTZ CALCITE VEINING - MILKY WHITE WITH HIGH % OF QUARTZ - 95% CALCITE 25" NARROW <1mm to 1mm WIDE VEINLETS WITH PYRITE AND TRACE TETRAHEDRITE IN VEINLETS, COULD BE FLANKED STRINGERS OF WALL ROCK??	90	.5	1			<1			<1		00289	46.47	47.08	.61m	0.010	0.08
47.08	47.45	.37m	QCSW	QUARTZ CALCITE STOCKWORK, NARROW ZONE OF STOCKWORK VEINING COMPRISES 35% of W.R.P. WIDTH OF VEINS 1.5cm to 2cm WIDE LITTLE OR NO SULPHIDES PRESENT IN VEINS CBA = 45°. WALL ROCK - DCLT MAKES UP 65% OF W.R.P WALL ROCK CONTAINS DISSEMINATED PYRITE WITH NARROW STRINGERS OF TETRAHEDRITE/PYRITE ASSOCIATED WITH VEINING, STRINGERS ARE NARROW 1-2mm IN WIDTH, PYRITE - 3-5% TETRAHEDRITE - 5-7%	35	10%				3-5			5-7		00290	47.08	47.45	.37m	0.011	0.02
47.45	48.59	1.41m	QCVN	QUARTZ CALCITE VEIN: MASSIVE MILKY WHITE CALCITE QUARTZ VEIN WITH PERCENTAGE AS FOLLOWS QUARTZ = 40% CALCITE - 60% LITTLE TO NO FRACTURING 47.98 - 47.58 : SMALL ZONE OF DISSOLVED CALCITE LEAVING VUGS, SOME SMALL QUARTZ CRYSTAL GROWTH SOME GOSSAN PRESENT ON DISSOLVED SURFACE 47.94 - 47.97 : SMALL CLAST OF DCLT, COULD BE PART OF WALL ROCK											00291	47.45	48.59	1.41m	0.011	0.04
48.59	51.93	3.34m	QCSW	SAME AS 47.08 - 47.45 m	90	10%				3-5			5-7		00292	48.59	49.95	1.36m	0.030	0.02
51.93	54.46		QCVN	SAME AS 49.45 - 98.59 m SOME CALCITE VEINING WITH CBA 90° THICKNESS - 1cm, SMALL "KNOTS" OF CLASTS ARE PRESENT, RICH IN TETRAHEDRITE 53.20 - 54.16 GRADUAL INCREASE OF PYRITE/TETRAHEDRITE KNOTS, THESE KNOTS COMPRISE ABOUT 5-10% OF W.R.P											00293	49.95	51.93	1.98m	0.020	0.21
															00294	51.93	53.20	1.27m	0.011	0.12
															00295	53.20	54.16	.96m	0.222	0.89
54.46																				

Interval (Specify ft or m) From	To	Recov.	Rock Type	Description	Alteration Qv	Q	Se	K	Ca	Sulphides Py	Sp	Ga	Ang	Pyr	Sample No.	From	To	Width	Assays Au oz/t	Ag oz/t
54.46	59.16	4.7m	QCVN	[illegible]																
				NOTICED WHERE CALCITE IS IN BLEBS. MOST	90	5				23			22		00296	54.16	55.56	1.4m	0.012	0.06
				CALCITE IS INTERSTITIAL WITH QUARTZ. QUARTZ											00297	55.56	57.00	1.44m	0.011	0.01
				DOMINANT MINERAL PRESENT. SOME KNOTS OF											00298	57.00	58.00	1.0m	0.010	0.01
				PYRITE/TETRAHEDRITE PRESENT. PERCENTAGE											00299	58.00	59.16	1.16m	0.015	0.09
				<2%.																
59.16	59.63	.47m	QCBX	NARROW ZONE OF BRECCIATION, 2cm TO 5.5cm (CLASTS) NARROW											00300	59.16	59.63	.47m	0.041	0.26
				STRINGERS OF PYRITE/TETRAHEDRITE 1mm TO 5mm																
				CONCENTRATION OF SULPHIDES PRESENT AROUND [illegible] WALL ROCK																
				FRAGMENTS.																
				PERCENTAGES: CARBONATE/CALCITE INFECTION, HIGH QUARTZ																
				90% LOW IN CARBONATE 10%. TOTAL AMOUNT OF																
				WHOLE ROCK PERCENTAGE 65% BRECCIA. SUBANGULAR TO																
				SUBROUNDED PYRITE 5-7% TETRAHEDRITE 10%. WALL ROCK																
				IS 85%																
59.63	61.74	1.99m	QCSW	SAME AS ABOVE 35, 90, 75° CBA OF QUARTZ/CALCITE											00301	59.63	60.55	0.92	0.010	0.05
				VEINS. THICKNESS OF VEINS RANGES 1mm to 1.5cm.																
				KNOTS OF SULPHIDE SEEM TO HAVE INCREASED IN											00302	60.55	61.74	1.19m	0.011	0.12
				SIZE AND PERCENTAGE.																
				PERCENTAGES: 1) VEINING 30% + WALL ROCK 70%																
				[illegible] HIGH IN QUARTZ 80% CALCITE 10%																
				[illegible] - 80%. KNOTS OF																
				[illegible] TETRAHEDRITE <1mm TO 5mm IN WIDTH																
				20%. PYRITE/TET IS FINE GRAINED IN KNOTS																
				CBA OF CONTACT IS 20°																
61.74	62.04	0.30m	QCVN	NARROW ZONE OF VEINING .30m. HIGH IN	85	10	1			22										
				QUARTZ - 90% LOW IN CALCITE 10%. SMALL											00303	61.74	62.04	0.30m	0.011	0.10
				KNOTS OF PYRITE/TETRAHEDRITE <1mm																
				IN WIDTH MAKE UP <2% OF WHOLE ROCK.																
62.04	67.18	5.14m	QCSW	SAME AS ABOVE. SPHALERITE GRAINS 1-2mm IN	35		35			5-10	1	-	10		00304	62.04	63.20	1.16	0.012	0.20
				WIDTH. 40% OF WALL ROCK FRAGMENTS ARE											00305	63.20	64.67	1.47	0.010	0.01
				PRESENT IN WRF. CBA ARE SAME AS ABOVE											00306	64.67	65.93	1.26	0.012	0.13
															00307	65.93	67.18	1.25	0.029	0.12

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	O	S	K	Ca	SULPHIDES Py	Sp	Ga	Ang	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
67.18	68.53	1.35m	QCBx	SAME AS ABOVE. LOWER CONCENTRATION OF	75	[illegible]	2-5			1-2	1-2		1-2		[illegible]	[illegible]	[illegible]	1.35	0.024	0.04
				PYRITE /TETRA.																
68.53	76.47m	7.94m	QCSW	MINERALIZATION ATT IS EXCELLENT	40	10	2-5			10	2	<2	10		00309	68.53	69.91	1.38	6.398	60.00
				69.39-69.59 GOOD PATCHWORK PYRITE MINERALIZATION											00310	69.91	71.32	1.41	0.109	2.64
				69.66-69.97 WITH GA, TETR, PY OBSERVED IN STRINGERS & ELECTRUM'											00311	71.32	72.51	1.19	0.070	0.43
				70.32-70.48 ALL THESE ZONES HAVE VERY GOOD							1.286 Au		12.53 Ag		00312	72.51	74.02	1.51	0.231	0.47
				71.09-71.16 MINERALIZATION								7.52	M		00313	74.02	75.07	1.05	0.130	0.21
				75.07-75.27 W.R.P IN THESE ZONE ARE AS FOLLOWS								24.7	'		00314	75.07	76.04	0.97	0.125	6.45
				75.64-75.70 PYRITE: 15% TETR: 15% GALENA: <5%											00315	76.04	76.47	0.43m	0.020	0.03
76.47	83.47	5.03m	DCLT	DACITE LAPILLI TUFF: GOOD PYRITE VEINING SUBPARALLEL	10		5-10			5-10					00316	76.47	77.84	1.37m	0.036	0.13
				CBA=35° DISSEMINATED PYRITE THROUGHOUT CORE											00317	77.84	78.91	1.07m	0.046	0.17
				ALIGNMENT OF GRAINS ARE ON APPARENT BEDDING											00318	78.91	79.68	0.77m	0.205	0.55
				PLANE, CBA IS 40°. NARROW STRINGERS OF						12.123 Au, 19.99 Ag				VG	00319	79.68	79.79	0.11m	276.817	447.43
				QUARTZ, ENASMOSING, 1-2mm IN WIDTH. INTERSECTION							2.57 M				00320	79.79	81.48	1.69m	0.324	1.02
				OF VEINS OF QUARTZ AND PYRITE GIVE ACUTE ANGLE							8.4 '				00321	81.48	81.88	0.40m	0.029	0.34
				OF 45° DACITE TUFF MAKES UP ~ 70% OF											00322	81.88	83.00	1.12m	0.033	0.03
				W.R.P.											00323	83.00	84.14	1.14m	0.041	0.03
				79.68-79.79 - V.G., PY, TETRA.																
				81.88-81.48m: HIGHLY VEINED LOOKS ALMOST TO																
				STOCKWORK.																
83.47	90.74	7.24	DCLT	DACITE LAPILLI TUFF. WITH STRINGERS OF PYRITE											00324	84.14	84.96	0.82	0.201	0.26
				TETRAHEDRITE. POOR VEINING, VEINING REACHES AS											00325	84.96	85.49	0.53	0.043	1.48
				HIGH AS 35%											00326	85.49	86.71	1.22	0.069	0.24
				88.84 - 89.41 - HIGHLY FRACTURED ZONE OF											00327	86.71	87.95	1.24	0.013	0.02
				DCLT. SIZE OF PIECES VARIES FROM 1-8cm											00328	87.95	88.84	0.89	0.011	0.38
				AVG ~3cm											00329	88.84	89.41	0.57	0.010	0.01
															00330	89.41	90.74	0.83	0.056	0.03

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr.	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
90.74	95.44	4.65	DCLT	DACITE LAPILLI TUFF - QUARTZ, CALCITE VEINING,	20	15				3-5	Tr	Tr	5-10		00331	90.94	91.97	1.03	0.062	0.51
				VEINING - IRREGULAR, 2 SETS, CBA IS 60°, COMPRISING											00332	91.77	92.89	1.12m	0.182	62.76
				~25% OF WHOLE ROCK PERCENTAGE (W.R.P) THE											00333	92.89	94.52	1.63m	0.125	1.03
				OTHER 50 PERCENT OF W.R.P IS TAKEN UP											00334	94.52	95.10	0.58m	1.579	63.59
				BY DCLT											00335	95.10	95.44	0.34m	0.079	2.05
				91.77-92.89 : 2 NARROW BRECCIA ZONES BOTH 5cm						15-20	Tr	1-3	40							
				TO WIDTH, HEAVILY MINERALIZED.																
				PERCENTAGES IN MIN. ZONES: PYRITE - 15% TETR - 40,						0.547 Au,			32.47							
				GALENA - 3% QUARTZ/CALCITE - 40% CBA ~ 55°		40					4.58 M									
												15'								
95.44	96.35	0.91m	QC.BX	QUARTZ CALCITE BRECCIA. HEAVILY MINERALIZED											00336	95.44	96.35	0.91m	1.271	43.02
				SAME AS 91.77-92.89																
96.35	105.52	9.17m	DCLT	DECREASE IN VEINING ~10%. PYRITE <5. 75% OF	10	5	1-5			1-3	Tr	1-2	1-3		00337	96.35	97.35	1.00m	0.011	0.03
				THE W.R.P is DCLT. GOOD FABRIC PRESENT											00338	97.35	98.78	1.43m	0.008	0.16
				98.25. GOOD ALIGNMENT OF PLAG GRAINS AND SERICITE											00339	98.78	100.19	1.41m	0.051	0.05
				TO GIVE AN EXCELLENT FABRIC CBA IS 45°											00340	100.19	101.49	1.30m	0.010	0.01
				PLAG GRAINS ARE CHLORITIZED, RANGE IN SIZE FROM											00341	101.49	101.98	0.49m	0.014	0.02
				5mm IN LENGTH TO 1mm IN WIDTH.											00342	101.98	102.97	0.99m	0.130	1.25
				QUARTZ/CARBONATE VEINING - NARROW, 1-3mm, 10% OF							5.418 Au,		3.44 Ag		00343	102.97	103.93	0.96m	0.019	0.13
				W.R.P.								2.47 M.			00344	103.93	104.45	0.52	25.453	13.77
				(98.78-100.19m) - PLAG PHENO DECREASE, GOOD											00345	104.45	104.91	0.46	0.024	0.21
				MINERALIZATION.								8.1'								
				(100.19-101.49m) - LOW VEINING ~15%, INCREASE																
				IN SERICITE ALTERATION																
				(101.49-101.98m) - GOOD PYRITE TETRAHEDRITE																
				STRINGERS																
				(101.98-102.97) - QCBX, NARROW ZONE OF																
				BRECCIATION																
				(103.93-104.45) - QTVN LOW CALCITE																
				CBA - 23°																

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
105.57	111.07m		DCITE	DACITE TUFF - COOKED TUFF DACITE COULD BE...	5	5	75			1-3	Tr	+								
				ITS PROTOLITH. ALTERATION IS INTENSE WITH											00346	109.91	105.79	0.88	0.019	0.06
				A PHYLLITIC SHIST AS A RESULT											00347	105.79	105.93	0.19	0.010	0.06
				VEININGS IS LOW TO NON EXISTANT WHAT IS THERE											00348	105.93	107.50	1.57	0.010	0.04
				THERE IS HAS A CA OF 30° THICKNESS 1mm - 5mm.											00349	107.50	108.65	1.15	0.013	0.06
															00350	108.65	109.98	1.33	0.012	0.03
															00351	109.98	111.07	1.09	0.009	0.02
07	112.57		QT BX	THIS CLASSIFICATION IS A BIT MISLEADING THE ROCK	10	5	20			5-10	-	-	5	-	00352	111.07	112.57	1.50	0.008	0.04
				IS BRX BUT MATRIX IS PYRITE / TETRAHEDRITE STRINGERS.																
				55% CLASTS, 95% MATRIX CLASTS.																
112.57	121.61		DCITE	SOME VEININGS AND BRECCIATION - BUT IN											00353	112.57	113.00	0.43	0.014	0.04
				BRECCIA NO MINERALIZATION IS OCCURING THUS											00354	113.00	113.92	0.92	0.085	4.68
				NO SAMPLING TAKEN.										*	00355	113.92	114.98	0.58m	0.010	0.06
																114.98	116.25	NO SAMPLING		
															00356	116.25	117.72	1.47m	0.010	0.03
															00357	117.72	119.52	1.80	0.231	3.76
															00358	119.52	120.12	0.60	0.011	0.06
																120.12	→ 121.86	NO SAMPLING		

NEWHAWK GOLD MINES

Drill Hole Record

	INCLINATION	BEARING
COLLAR	-65°	025°

PROPERTY: NEWHAWK GLD MINES LTD
LOCATION: SHORE ZONE
ELEVATION: 1393.79 M
COORDINATES: 5160.39 S 3730.91 E

LENGTH: 139.90 M
HOR. COMP: VERT. COMP:
BEARING: 025°
BEGAN: COMPLETED:
CORE SIZE: BQ RECOVERY:

HOLE No. DDH-S-87-183
Sheet: 1 of 6
LOGGED BY: DAVID HANDEL
SAMPLED BY: K. CRAFT

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	Qv	Q	S	K	Ca	Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	Au oz/t	Ag oz/t
0.00	1.22m	0		OVERBURDEN - BOULDER, TILL, CASING.																
1.22m	4.05m	0		NO CORE RECOVERED											00359	4.05	4.70	0.65m	0.009	0.06
4.05m	4.70m	.62m	DCTF	GREYGREEN IN COLOUR MATRIX IS FINE GRAINED WITH TALC CHLORITE ALTERATION IN PLAG GRAINS, GRAINS ARE 1-2mm WIDE SUBROUNDED COMPRISING 20% OF W.R.P. SOME QUARTZ VEINING, W. MINERALIZATION ALONG SOME VEINS. KNOTS OF PYRITE/TETR ALSO PRESENT 55% OF W.R.P. IS MADE UP OF FINE GRAINED GREEN MATRIX CBA OF VEINING K 25° SOME GOSSANOUS ALTERATION ALONG FRACTURES ≤5%. SOME PYRITE KNOTS ARE ALIGNED TO GIVE SOME RESEMBLANCE OF BEDDING? QUARTZ AND CLAY ALTERATION	10		15			10			15							
4.70	7.06	2.15m	DCTF	SAME CLAY ALTERATION AND SERICITIZATION, HIGHLY FRACTURED ROCK WITH GOSSAN PRESENT ON FRACTURE SURFACES. PIECES RANGE FROM 1cm to 8cm LONG FRACTURE SURFACES ∠ CBA - 80°, 25°, 90° INTERSECTION OF BOTH FRACTURE SURFACES 70% MATRIX.		10	20								00360	4.70	7.06	2.36m	0.009	0.04
7.06	11.61	4.42m	TF	SAME AS ABOVE INCREASE IN QUARTZ/CARBONATE VEINING, CBA OF VEINING IS 3°, 30°, 90° 75% OF W.R.P. CALCITE TAKES UP 5-10% IN VEINS CBA OF GRAIN ALIGNMENT IS 40° GRAINS ARE BET LIGHT GREEN, SOME VEINING WITH CBA OF 40°.											00361	7.06	8.48	1.42	0.008	0.05
															00362	8.48	9.13	0.65	0.010	0.10
															00363	9.13	9.36	0.23	0.012	0.09
															00364	9.36	10.30	0.94	0.009	0.03
															00365	10.30	11.61	1.31m	0.013	0.05
11.61	17.26	5.65	TF	AN INCREASE IN Q.CVN AS MOVE DOWN HOLE. CBA OF VEINS 23°, CLOTS OF PYRITE/TETRAHEDRITE MINERALIZATION PRESENT THROUGHOUT. VEINS VARY IN THICKNESS FROM 1mm to 3cm WIDE MINERALIZATION STICKS TO WALL ROCK FOR THE MOST PART.											00366	11.61	11.76	0.15m	0.020	0.39
															00367	11.76	12.21	0.45m	0.014	0.54
				12.21-12.83 EXCELLENT MINERALIZATION, MASSIVE PYRITE/TETR. MOST PART V.F.G., CLAY ALTERED TUFF, SOME PYRITE STRINGERS											00368	12.21	12.83	0.62m	0.024	0.49
															00369	12.83	13.53	0.70	0.008	0.05
															00370	13.53	14.53	1.00	0.010	0.06
															00371	14.53	14.94	0.41	0.009	0.07
															00372	14.94	16.50	1.56	0.01	0.10

From	To (m)	RECOV.	ROCK TYPE	DESCRIPTION	Qv	Q	S	K	Ca	Py	Sp	Ga	Ang	Pyr	SAMPLE No.	FROM	TO	WIDTH	Au oz/t	Ag oz/t
11.61	17.26 cm		TF	CANT'D FROM LAST PAGE											00373	16.50	17.26	0.96m	0.119	0.16
17.26	48.36	30.83	QCSW	EXCELLENT STOCK WORK VEINING, HIGH QUARTZ	65	15	10			5			5		00374	17.36	18.18	0.92m	0.010	0.15
				CONTENT 90% WITH INTERSTITIAL CALCITE, WALL ROCK											00375	18.18	18.52	0.34m	0.021	0.56
				18.18 - 18.52 - QZVN IN STWRK											00376	18.52	19.01	0.49m	0.016	0.13
				IS ALTERED SERICITE / CLAY FINE GRAINED											00377	19.01	20.50	1.49	0.009	0.04
															00378	20.50	21.76	1.26	0.011	0.07
				VEINS IN STOCKWORK: CBA - 23°, VARY IN SIZE.											00379	21.76	22.13	0.37	0.015	0.06
				FROM 1mm - 8cm											00380	22.13	22.98	0.85	0.850	0.62
				21.76 - 22.13 - FRACTURED GOSSANOUS ZONE WITH											00381	22.98	23.83	0.85	0.008	0.03
				DISSOLVED METEORIC CALCITE, GOOD KNOTS OF MINERALIZATION											00382	23.83	24.59	0.76	0.021	0.30
				(24.36 - 24.43) - GOSSANOUS FRACTURE											00383	24.59	25.36	0.77	~~0.009~~	~~0.03~~
				(27.91 - 27.85) - NARROW ZONE OF BRECCIATION, [illegible]											00384	25.36	25.43	0.07	0.010	0.19
				VEINING - EVERYWHERE TO SUBHORIZONTAL, CLASTS RANGE											00385	25.43	26.49	1.06	0.026	0.08
				FROM 2mm - 4cm, RIGHT LATERAL DISPLACEMENT											00386	26.49	26.68	0.19	0.011	0.13
				IN SOME VEINS .1-2mm											00387	26.68	27.71	1.03	0.045	1.90
				CBA OF VEINS - 35°, 25° & 90°.											00388	27.71	27.85	0.14	0.011	0.10
															00389	27.85	29.75	1.90	0.010	0.08
				34.58 - 35.91 - QZSW VEINS 1-5cm wide WITH											00390	29.75	30.15	0.40	0.013	0.12
				CBA OF 65° AND 30° - OBTUSE INTERSECTION											00391	30.15	31.00	0.85	0.019	0.24
				110°											00392	31.00	32.08	1.08	0.018	0.33
															00393	32.08	32.27	0.19	0.025	0.28
															00394	32.27	33.71	1.44	0.640	1.02
															00395	33.71	34.58	0.87	0.010	0.12
															00396	34.58	35.91	1.33	0.026	0.41
													[illegible]	[illegible]	00397	35.91	37.06	1.15	0.015	0.14
															00398	37.06	38.55	1.49	0.012	0.24
													[illegible]	[illegible]	00399	38.55	39.20	0.65	0.033	0.11
															00400	39.20	40.15	0.95	0.011	0.08
															00401	40.15	41.46	1.31	0.021	0.29
															00402	41.46	43.15	1.69	0.018	0.39
															00403	43.15	44.36	1.21	0.013	0.29
															00404	44.36	45.87	1.51	0.036	0.20
															00405	45.87	47.03	1.16	0.015	0.81
															00406	47.03	48.36	1.33	0.010	0.11

Interval From	Interval To	Recov.	Rock Type	Description	Qv	Q	S	K	Ca	Py	Bp	Ga	Ang	Pyr	Sample No.	From	To	Width	Au oz/t	Ag oz/t
48.36	48.79	0.43m	QCBX	QCBX - SUBANGULAR TO SUBROUNDED - SIZE RANGE - 4mm to	75	10	Tr			10			5		00407	48.36	48.79	0.43	0.014	0.27
				25mm, CLAST MAKE UP 40% OF WBF.																
48.79	54.25	5.26m	QCSW	AS FROM LAST PAGE.										MUSWS 2mm	00408	48.79	50.43	1.64	0.011	0.29
				(50.43-51.37) - DECREASE IN STOCKWORK WALL ROCK PERCENTAGE											00409	50.43	51.37	0.94	0.010	0.12
				DECREASE TO NIL.											00410	51.37	52.99	1.12	0.012	0.11
				(51.37-52.99) - QCSW - INCREASE IN CALCITE, GOOD TEXTURE											00411	52.99	54.06	1.57	0.009	0.08
				IN WALL ROCK FRAGMENT, ALTERED DCTF. 90-55° C.O.A.											00412	54.06	54.25	0.19	0.012	0.19
				OF VEINING.																
54.25	55.80	1.55m	QCVN	SEE LAST PAGE: CALCITE VEINING APPARENT																
				1mm to 2mm in WIDTH WITH QUARTZ											00412	54.25	55.80	1.55	0.009	0.04
55.80	57.05		QCBX	SEE ABOVE											00414	55.80	56.60	0.80	0.015	0.07
															00415	56.60	57.03	0.43	0.019	0.37
57.05	62.30	5.27m	QCVN	AS ABOVE, WITH SOME DCLT WALLROCK PRESENT.											00416	57.03	58.66	1.63	0.010	0.05
				VEINS ARE PROBABLY SUB PARALLEL, VEINS RANGE IN											00417	58.66	59.29	0.63	0.021	0.58
				WIDTH FROM 22mm to 51mm.											00418	59.29	60.00	0.71	0.299	53.56
				(55.80-57.03) QCBX ANGULAR TO SUBROUNDED, SIZE											00419	60.00	60.77	0.77	0.045	0.08
				RANGE from 2mm to 3cm.											00420	60.77	61.77	1.00	0.624	0.62
				(58.66-60.00): 0.63m - GOOD CALCITE/TETRAHEDRITE, EXCELLENT																
				MINERALIZATION)	ELECTRUM!					0.278 Au, 6.75 Ag					00421	61.77	62.30	0.53	0.277	2.07
				(60.77-61.77): 1.00m - DCLTBRX WITH 15cm OF						6.33 M										
				STOCKWORK AT END OF BOX																
62.30	72.15	9.76	QCSW	AS ABOVE.											00422	62.30	62.91	0.61	0.401	2.15
				(63.97-65.62) - QCVN, RELIC GHOSTS OF WALL ROCK											00423	62.91	63.97	1.06	0.013	0.15
				FRAGMENTS											00424	63.97	65.62	1.65	0.293	0.07
				(67.74-67.93): QCVN, SOME GOSSANOUS WHITENING											00425	65.62	66.30	0.68	0.011	0.19
				(69.93-68.70): QCVN.											00426	66.30	67.74	1.44	0.011	0.04
															00427	67.74	67.93	0.19	0.009	0.05
															00428	67.93	68.70	0.77	0.020	0.13
														MISSING 9cm	00429	68.70	70.14	1.49	0.024	0.34
															00430	70.14	71.92	1.72	0.010	0.05
															00431	71.92	72.15	0.23	0.025	0.57
72.15	77.23	5.08m	QCVN	(73.12-73.36) - EXCELLENT PATCHWORK MINERALIZATION											00432	72.15	73.12	0.97	0.036	2.04
				PY/TETR/SPHALERITE/GALENA. QCVN - MILKY WHITE											00433	73.12	73.36	0.24	0.615	21.63
															00434	73.36	74.81	1.45	0.00	0.04
															00435	74.81	75.95	1.14	0.02	4.37
															00436	75.95	77.23	1.28	0.010	0.05

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
77.23	77.85	0.62	QCBX	SUBANGULAR TO SUBANGULAR, SAME AS ABOVE	30	10				10			5		00437	77.23	77.85	0.62	0.015	0.16
77.85	78.64	0.79	QCSW	AS ABOVE.							3				00438	77.85	78.64	0.79	0.011	0.02
78.64	80.72	2.05	QCVN	AS ABOVE	80	10				<3			<3		00439	78.64	80.43	1.79	0.010	0.04
															00440	80.43	80.72	0.29	0.010	0.03
80.72	81.61	0.87	QCBX	AS ABOVE, SOME TETRAHEDRITE STRINGERS PRESENT, SOME CALCITE RICH CLASTS PRESENT											00441	80.72	81.61	0.89	0.064	0.06
81.61	82.83	1.22	QCVN	AS ABOVE											00442	81.61	82.83	1.22	0.026	0.24
82.83	84.06	1.23	DCCF	SOME NARROW VEINS, LOW IN SULPHIDE CONCENTRATION SOME PRESENT IN VEINING NOT IN WALL ROCK. V. NARROW ZONE OF BRECCIATION 3mm. SOME VEINING COMPRISING 20% OF W.R.P.											00443	82.83	84.06	1.23m	0.010	0.07
84.06	97.44		QCVN	SOME NARROW PATCHES OF WALL ROCK, LARGEST BEING 10 cm WIDE - MILKY WHITE AS ABOVE											00444	84.06	85.40	1.34	0.017	0.02
															00445	85.40	86.22	0.82	0.013	0.04
															00446	86.22	86.61	0.39	0.011	0.07
															00447	86.61	88.17	1.56	0.012	0.04
															00448	88.17	89.69	1.52	0.011	0.05
															00449	89.69	90.87	1.18	0.012	0.03
															00450	90.87	92.00	1.13	0.011	0.04
															00551	92.00	93.16	1.16	0.010	0.04
															00552	93.16	94.68	1.52	0.009	0.05
															00553	94.68	95.50	0.82	0.008	0.05
															00554	95.50	96.48	0.98	0.009	0.04
															00555	96.48	97.44	0.96	0.011	0.05
97.44	100.19		QCSW	GOOD VEINING IN DCCT, CA OF VEINS RANGE FROM 23°, 35°, 40° width is 2mm TO 2cm MINERALIZATION (TETRAHEDRITES) IS PRESENT ALONG VEIN EDGES											00556	97.44	98.65	1.21m	0.041	0.09
															00557	98.65	100.19	1.54m	0.013	0.09

Sheet - of

INTERVAL (Specify ft. or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Ang	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
															000558	100.19	101.91	1.72	0.031	0.20
100.19	103.17	2.98m	DCTF	GREY GREEN WITH NARROW VEINS PRESENT VEIN SIZE	15	5	-	-	-	5	-	-	<1%	-	000559	101.91	103.17	1.26	0.030	0.78
				RANGES FROM <1mm TO 3mm, MAKES UP																
				10-15% OF WRP.																
															00560	103.17	104.54	1.37m	0.014	0.18
103.17	105.70	2.43	DCSW	AS ABOVE											00561	104.54	105.70	1.16m	0.010	0.05
															00562	105.70	106.25	0.55	0.009	0.03
105.70	106.25	0.55	QCBX	AS ABOVE																
															00563	106.25	107.50	1.25	0.008	0.05
106.25	110.96	4.70	DCLT.	AS ABOVE SOME ALIGNMENT OF CLAST FRAGMENTS											00564	107.50	108.33	0.83	0.016	0.12
				TO GIVE A BEDDING - CBA ~57°											00565	108.33	109.07	0.74	0.010	0.07
															00566	109.07	109.71	0.64	0.008	0.03
															00567	109.71	110.96	1.25	0.011	0.09
															00568	110.96	111.85	0.89	0.011	0.04
110.96	117.59		QCBX	AS ABOVE, LATE STAGE VEINING, BARITE CLASTS PRESENT											00569	111.85	113.16	1.31	0.013	0.09
				PEARLY WHITE LUSTRE, HIGH S.G., GREY BLUE 'HUE'											00570	113.16	113.89	0.93	0.009	0.03
				TO FRAGMENTS, SUBANGULAR TO SUBROUNDED, SIZE											00571	113.89	115.13	1.24	0.051	0.02
				RANGES FROM 3mm TO 2cm.											00572	115.13	115.33	0.20	0.009	0.06
															00573	115.33	116.48	1.15	0.014	0.04
															00574	116.48	117.59	1.11	0.010	0.04
117.59	120.24	2.55m	QCBX.	SLIGHTLY MORE MAFIC CLASTS PRESENT HTP, COULD BE DUE																
				TO INCREASE IN TETRAHEDRITE CON. . BARITE											00575	117.59	118.44	0.85	0.012	0.23
				CLAST NOT PRESENT HTP. CLASTS ARE SUBANGULAR											00576	118.44	119.73	1.29	0.010	0.20
				TO SUBROUNDED RANGE IN SIZE FROM 1mm TO											00577	119.73	120.24	0.51m	0.014	0.46
				3mm AVG = 1.5cm. MORE SCHISTOSE IN THIS SECTION																
				PHYLLITIC SCHIST WITH FOLN/CA ≈ 72°. SOME MINERALIZATION																
				PARALLEL TO FOLN.																

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv.	Q	S	K	Ca.	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
120.24	125.80m	5.50m	DCLT	LIGHT GREY INCREASE 1-2mm WIDE CLASTS OF FLAT CLASTS ARE ROUNDED TO ANGULAR, SUGGESTING A CLOSE SOURCE. CLASTS ARE SUBPARALLEL TO FINE BEDDING, CBA 45° VEINS RANGE IN WIDTH FROM 1mm TO 1cm, DISEMINATED PIR PRESENT <1% GRAINS ARE DARKER GREY THAN THE MATRIX. DSPACEMENT ON VEINS ON RIGHT CATTERAL 1-3cm.	10	10	-	-	-	<1	-	-	1-2	-	00582	120.24	121.61	1.37	0.011	0.17
															00583	121.61	123.02	1.41	0.014	0.12
															00584	123.02	123.54	0.52	0.020	0.26
															00585	123.54	124.34	0.80	0.016	0.05
															00586	124.34	124.96	0.62	0.015	0.06
															00587	29.96	125.80	0.84	0.036	0.18
125.80	126.93	1.13m	DBX	SOME EXCELLENT MINERALIZATION, WITH MILKY WHITE CALCITE/QUART & MATRIX.	55%	10%				10			10		00589	125.80	126.93	1.13m	0.049	0.32
126.93	139.24 139.90	1.85m	DCLT	ASC ABOVE 120.24 - 125.80											00585	126.93	127.79	0.86	0.017	0.15
															00586	127.79	128.67	0.88	0.050	0.36
															00587	128.67	129.73	1.06	0.011	0.07
															00588	129.73	130.70	0.97	0.018	0.24
															00589	130.10	131.89	1.18	0.092	0.24
															00590	131.28	132.74	1.46	0.101	0.96
															00591	132.74	134.21	1.47	0.019	0.13
															NO SAMPLE					
															00759	136.86	137.56	0.70	0.012	0.09
				136.59 - 139.90 - QTSW - AS ABOVE											00760	137.56	139.59	2.03	0.016	0.08
															00761	136.59	139.90	0.31	0.009	0.11
															END OF HOLE					

NEWHAWK GOLD MINES

Drill Hole Record

COLLAR	INCLINATION	BEARING
	-45°	Collar

PROPERTY: SULPHURETS
LOCATION: SHORE ZONE
ELEVATION: 1394.02
COORDINATES: 5169.82 S 3734.49 E

LENGTH: 115.22 M
HOR. COMP.: VERT. COMP.:
BEARING: 025°
BEGAN: AUG 9 COMPLETED: AUG 10
CORE SIZE: BQ RECOVERY:

HOLE No. S87-186
Sheet: 1 of 5
LOGGED BY: T.D.
SAMPLED BY: K.Cl...

INTERVAL (Specify ft. or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	~~Ars~~ Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
0	2	0	CSNG	No CORE CASING																
2.00	4.99	2.99	QTVN	White-mottled qtz with patches/stringers	85				10	3			Tr		00451U	2.00	3.35	1.35	0.029	1.26
				Tet-Py; minor Malach. staining.											00452U	3.35	4.99	1.64	0.105	5.90
				Some CaCO3 + FeMg CO3 (Both stained)																
				Occas. fleck electrum.																
4.99	6.42	1.43	QTSW	Lt. Grey; qtz stockwork w/ white qvs.																
			QCSW	to 2 cm wide at 40°, 60°, 80° to CA. freq.	50				10	2		1	Tr		00453U	4.99	6.42	1.43	0.066	1.68
				with Ga patches.																
				Fe-Mg CO3 common; to 15%.																
				± CaCO3 Minor fg diss Py in																
				matrix.																
6.42	8.30	1.88	QTVN	Massive white QTVN with abund. CaCO3 +	80				15	2	1	Tr	Tr		00454U	6.42	8.30	1.88	0.016	2.19
				FeMgCO3 (to 25%) Patches-stringers																
				Py Ga ± Tet. ~~Fine~~ Sp (Beige) knots																
				Contacts at 70° to CA. Occas. Rx																
				frags near contacts																
8.30	33.07	24.77	QTSW	Lt. Grey-white mottled stockwork											00455U	8.30	10.05	1.75	0.017	0.51
			QCSW	with criss-crossing hairline to 3 cm											00456U	10.05	11.58	1.53	0.014	0.07
				Qtz and Qtz-CO3 veinlets. Latest											57U	11.58	13.09	1.51	0.011	0.07
				stringers totally Qtz. Some Q-CO3											58U	13.09	14.63	1.54	0.016	0.16
				veins with Sp-Ga-Tet. For most											59U	14.63	16.15	1.52	0.008	0.06
				part most mineralized veins are											60U	16.15	17.66	1.53	0.017	0.28
				Q-CO3 middle generations											61U	17.66	19.20	1.52	0.020	0.32
				Occas. bx'td. sw. patches; not											62U	19.20	20.73	1.53	0.010	0.07
				to significant for volume.											63U	20.73	22.25	1.52	0.014	0.04
				Looks pretty low grade if at it											64U	22.25	23.77	1.52	0.010	0.06
				runs at all!!											00465U	23.77	25.29	1.52	0.011	0.07
~~33.07~~	~~36.77~~	~~3.~~	QTZN												00466U	25.29	26.82	1.53	0.040	0.42
															00467U	26.82	28.35	1.53	0.021	0.65
															68U	28.35	29.87	1.52	0.017	0.21
															69U	29.87	31.39	1.52	0.01[illegible]	0.28

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	$CaCO_3$	SULPHIDES Py	Sp	Ga	~~Ars~~ Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
															004704	31.39	33.07	1.68	0.025	0.28
33.07	36.27	3.2	QTVN	Grey-white mottled dacite cut by numerous clear uni directional QVs for Most Part at 30° to CA. Minor X-cutting to 5cm at 60° to CA. Freq. beige carbonate patches. Looks barren, apart from 1 mineralized patch over 1.5cm wide with Tet-Sp-Ga. at 34 m. Only 25% Rx.	80			10	20	Tr			Tr		004714	33.07	34.59	1.52	0.043	3.43
															004724	34.59	36.27	1.68	0.167	0.26
36.27	38.17	1.90	QTVN	White massive QT with 40% $CaCO_3$ Cut'd at bottom. Attitude @ ≈ 60° to CA. BARREN.	65				35	Tr	-	-	-		004734	36.27	38.17	1.90	0.923	0.52
38.17	43.07	4.9	QTSW QCSW	Lt Grey mottled dacitic volc cut by Qtz stockwork. Qt stringers @ 35°, 60°, 45° -Xing up to 5cm thick. Mostly with 15-30% $CaCO_3$. Fg. diss. Py in volcs which are silic'd - S alt'n	35		15		20	3					004744	38.17	40.54	2.37	0.014	0.19
															004754	40.54	42.06	1.52	0.013	0.11
															004764	42.06	43.07	1.01	0.019	5.76
43.07	~~54.64~~ 45.11 54.90	? 11.81	QTVN	Massive qtz-carb. vein white with occasional Py sulphide patches/stringers. Over 5cm from 43.25-43.75m Overall pretty barren rock. Occasional xx frag. angular, pyritic. Low sulphides content in Qtz Low contact Bx'd. Up to 35% Carbonate locally, freq. with Pink cast.	80				25	2-3		Tr			004774	43.07	45.11	2.04	0.015	1.83
															004784	45.11	46.63	1.52	0.090	0.07
															004794	46.63	48.16	1.53	0.009	0.17
															004804	48.16	49.68	1.52	0.011	0.31
															004814	49.68	51.20	1.52	0.010	0.07
															004824	51.20	52.73	1.53	0.026	0.23
															004834	52.73	54.90	2.17	0.015	0.52
54.90	59.35	4.45	QTSW	Grey-white mottled silicified stockworked alt'd volcanic xl tuff. QVs to 2cm wide at numerous Xs. Pyritic patches ∥ to foliation @ 40° to CA.	35				20	15	Tr	Tr			004844	54.90	57.30	2.40	0.013	0.14
															004854	57.30	59.35	2.05	0.010	0.15

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
59.35	64.30	4.95	QTZN	Intensely silicified and Qt-carb veined volcanic tuff. Patches (Veins) to 15mm wide; mostly 5-8 mm wide at 20 mm intvls. Sparsely mineralized with Py, Ga, Sp. Veining at mum ∢s mostly 20°, 30°, 60° to CA. Mostly with white calcite and minor... other white Carb or barite? Lower contact with vein at 40° to CA. Sheared, foliated at contact.	40		15		15	5	Tr	Tr			[illegible]	59.35	60.35	1.00	0.013	2.10
															004174	60.35	62.33	1.98	0.030	0.35
															004184	62.33	64.30	1.97	0.022	0.69
64.30	66.80	2.50	QTVN	Massive white, grey mottled Qtz vein with mum. (20%) grey sulphide patches (py-arg-tet) and 5-10% sheared/silicified dk grey rx frags. Patch (zone) of 25% Py, 10% Cpy, 20% Sp, 5% Ga over 0.10 m intvls from 67.4-67.5 m. Contact gradational.											004894	64.30	65.10	0.80	0.425	4.22
															004904	65.10	66.80	1.70	0.043	0.25
66.80	67.90	1.10	QTZN.	Grey-white mottled intensely silicified tuff. with ghostly / outlined rock frags and fg. grey py-sulphide (Possibly Ag Sulphs?) Foliation of Rx frags at mum. ∢s, Sheared.											004914	66.80	67.90	1.10	0.022	0.27
67.90	75.75	7.85	DACT	Grey fg. s.s./qtz alt'd dacite or altered XL tuff, cut by mum. hairline to 2cm qtz veins at 30°, 60°, 80°, Most sub //; only few cross-cutting. 75.0 - 75.60 Qtz Vein; with patches Ga - Sp - Py @ 80° to CA											004924	67.90	69.50	1.60	0.016	0.15
															004934	69.50	71.02	1.52	0.079	1.88
															004944	71.02	72.54	1.52	1.110	6.98
															004954	72.54	74.06	1.52	0.039	3.59
															004964	74.06	75.00	0.94	0.036	0.45
															004974	75.00	75.60	0.60	0.090	0.48
															004984	75.60	75.75	0.15	0.196	1.03
										0.176 Au		0.54 Ag			499					
												3.54 m			500					

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arrg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
75.75	85.04	9.29	QTSW	weak to mod Qtz stockwork in grey silicified-sericitized dusty XL tuff. Qtz stringers mostly < 2cm wide frequently up to 50% CaCO3 with Qtz becoming less STWK with depth. -79.14-79.69 - QTZV + 3-5% Sp-Ga patches @ 75° to CA.	20				15	3	Tr	Tr	Tet		004994 005004 000751 0007524	75.75 77.27 79.14 79.69	77.27 79.14 79.69 81.69	1.52 1.87 .55 2.00	0.096 0.240 0.046 0.017	0.54 0.51 0.95 0.18
85.04	87.58	2.54	DCTF	Grey-silicified XL tuff, very aphanitic cut by qtz veins and in part replaced by Qtz, to 40% of rx. Tr diss Py. Looks barren, Occas 1-2 mm Q-Carb stringers, 5% diss Py	Tr.	15	20		5	2					007534 007544	85.04 86.56	86.56 87.58	1.52 1.02	0.065 0.786	0.06 0.46
87.58	90.63	3.05	DCTF (QTSW)	silicified/sericitized XL tuff, cut by weak Qt and QTCarb veining. Similar to above with > amount QtVns. QVs @ 70°, 45°, 5-10° & 85° to CA.	15	15	20		5	2	0.375 Au, 1.98 Ag 4.67 m				007554 007564	87.58 89.11	89.11 90.63	1.53 1.52	0.050 0.068	0.46 0.51
90.63	91.23	0.60	QTSP	Quartz sulphide vein; 65% sulphide with Quartz, containing Sp, Gz, Cpy, Py, Tet? looks high grade 0.42m TR width	20					20	20	10	10	cpy 10	007574	90.63	91.23	0.60	1.280	12.13
91.23	92.53	1.30	QTSW	Dacite (Silicified-sericitized) XL tuff cut by num. cross Xing Qt and Qtcarb veinlets to 3cm wide. Overall 15% Py, v.f.g diss. & as tiny hairline fracture fillings.											007584	91.23	92.53	1.30	0.016	0.04
92.53	115.22	22.69	DCTF DCXT	Silicified sericitized XL tuff, possibly [illegible] [illegible] [illegible] [illegible] In part [illegible] [illegible] [illegible] with [illegible] to 1m with of [illegible] [illegible] aphanitic [illegible] [illegible]																

INTERVAL (Specify ft or m)		RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
From	To				Qv	Q	S	K	Ca	Py	Sp	Ga	Arg	Pyr					Au oz/t	Ag oz/t
				Faults at 109.30 @ 70° to CA																
				with 1cm clay gouge																
				Fault at 113.67 @ 15° & 35°																
				to CA. 1cm clay gouge																
				-114.20 m @ 15° to CA.																
				possibly same fault; intact!																
				END OF HOLE																

NEWHAWK GOLD MINES

Drill Hole Record

	INCLINATION	BEARING
COLLAR		

PROPERTY: NEWHAWK GOLD MINES LTD.
LOCATION: SNOWFIELD ZONE
ELEVATION:
COORDINATES: S - E

LENGTH: 306 FT - 139.90m
HOR. COMP: VERT. COMP:
BEARING: —
BEGAN: COMPLETED:
CORE SIZE: RECOVERY:

HOLE No. DDH-S-87-187
Sheet: 1 of 4.
LOGGED BY: D. HANCEL
SAMPLED BY: K. CRAFT

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
0.00	0.80		OVBD.	CASING, OVERBURDEN.																
															000592	0.80	2.06	1.26m	0.027	0.03
0.80	3.24m	2.50m		ROCK HIGHLY FRACTURED ROCK, GOSSANOUS COLOUR WITH	25.	15				<5			1-2		000593	2.06	3.24	1.18m	0.009	0.15
				GOOD BRECCIATION, WALLROCK FRAGMENTS, FRAGMENTS																
				RANGE IN SIZE FROM 1mm TO 5mm. SUBROUNDED TO SUBANGULAR.																
				DISSEMINATED PYRITE, DISSOLUTION OF CARBONATE, GIVE OPEN VUGS																
				WITH DRUSY QUARTZ CRYSTAL INFILLING, CRYSTALS ARE SMALL																
				1-2mm. VUGS RANGE IN SIZE FROM 2mm TO OPEN CAVITIES																
				15mm BY 35mm. GOSSAN PREDOMINATES THE FRACTURE SURFACES																
				MAKING IT DIFFICULT TO DETERMINE AMOUNT OF ROCK FORMS																
				BROKEN ROCK FRAGMENTS RANGE IN SIZE FROM 1cm TO 8cm.																
				CORE ANGLE BETWEEN C.A. AND FRACTURES ARE 24°, 90° PROBABLY																
				DCLT.																
3.24	12.61	9.33	QCVN.	GOSSANOUS MATERIAL DECREASES AT?, WITH SOME FRACTURING.	45	15.				5			<5		000594	3.24m	4.75m	1.51m	0.016	0.30
				FRACTURES MAKE ANGLE W C.A. OF 70-90°. SOME VUGGY											000595	4.75m	5.75	1.00m	0.017	1.44
				SECTIONS BUT ONLY <5% ARE VEEP. CARBONATE VERY											00596	5.75	6.66	0.91m	0.010	0.22
				PREVALENT ~ 55-60% WITH QUARTZ MAKING UP THE OTHER											00597	6.66	8.00	1.34m	0.143	0.51
				35-40%, SOME PYRITE KNOTS BUT MINERALIZATION											00598	8.00	9.36	1.36m	0.090	1.30
				HAS DECREASED AT?.											00599	9.36	10.63	1.27m	0.011	0.55
				5.75-6.66m: QTSW - SOME RUSTY DISCOLOURATION OF QUARTZ /											000600	10.63	12.03	1.67	0.025	0.09
				VEINS, ANGLE BETWEEN CORE AXIS AND VEIN 15-55°, 90° VEIN											000601	12.03	12.61	0.58	0.010	0.05
				THICKNESS: 2mm TO 3cm, QUARTZ MAJOR CONSTITUENT IN																
				VEINING ~90% 10% CALCITE																
12.61	13.63	1.02	QTBX	SUBROUNDED TO SUBANGULAR CLASTS RANGE IN SIZE	40	15				2-3			1-1		00602	12.61	13.63	1.02	0.009	0.02
				FROM 2mm TO 23mm. LATE STAGE CALCITE																
				VEINS CROSS CUT, THICKNESS 1mm TO 1cm WIDE																
13.63			QTSW.	TWO STAGE VEINING, EXCELLENT STOCKWORK, VEINS											00603	13.63	14.94	1.31m	0.030	0.95
				RANGE IN SIZE FROM 1mm TO 15mm. C.A. 45°, 90°																
				VEIN INTERSECTION 15-98°											00604	14.94	16.04	1.10m	0.013	0.30
				17.16-17.86 - DECREASE IN [illegible] FRAGMENTS, [illegible]											000605	16.04	17.16	1.12	0.020	1.02
				NARROW [illegible] QTVN. [illegible] PYRITE <5%											000606	17.16	17.86	0.70	0.018	1.59
				SOME INTERSTITIAL CALCITE											000607	17.86	18.26	0.40	0.1[illegible]	4.73

Sheet: 2 of 4

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
13.36	44.57	30.92	QTZ(v)	QUARTZ WITH SOME INTERSTITIAL CALCITE, WAS	20	10	-	-	-	5	1	Tr	5-10	-	000608	18.26	19.44	1.18m	0.022	1.03
				<1% OF W.R.P. SIZE 8 1-3mm CBA=90°,89°: MINERALIZATION											000609	19.44	21.03	1.59	0.031	0.33
				IS POOR TO FAIR SOME PY, TETRAHEDRITE STRINGERS											000610	21.03	21.96	0.93	0.014	0.13
				WITH KNOTS OF PYRITE DISSEMINATED, CBA 35°90											000611	21.96	22.19	0.23	0.024	0.41
				THICKNESS 4mm TO 10mm. ACUTE INTERSECTION											000612	22.19	23.43	1.24	0.013	0.24
				BETWEEN VEINS IS 77°											000613	23.43	24.89	1.46	0.020	0.38
															000614	24.89	26.01	1.12	0.010	0.17
															000615	26.01	27.13	1.12	0.013	0.15
															000616	27.13	27.72	0.59	0.014	0.40
													MISSING 10cm		000617	27.72	29.70	1.98m	0.009	0.11
															000618	29.70	30.71	1.01	0.010	0.19
															000619	30.71	31.70	0.99	0.020	0.19
															000620	31.70	32.80	1.10	0.020	0.16
															000621	32.80	33.45	0.65	0.027	0.39
															000622	33.45	33.80	0.35	0.209	23.46
															000623	33.80	34.83	1.03	0.042	2.33
															000624	34.83	36.27	1.44	0.047	1.34
															000625	36.27	37.40	1.13	0.070	2.84
															000626	37.40	38.70	1.30	0.016	0.25
															000627	38.70	39.93	1.23	0.011	0.17
															000628	39.93	41.43	1.50	0.010	0.04
															000629	41.43	42.37	0.94	0.012	0.33
															000630	42.37	43.73	1.36	0.009	0.09
															000631	43.73	44.57	0.84	0.010	0.07
44.57	51.79	7.22m	QBX	QUARTZ BRECCIATION WITH CLASTS RANGING IN SIZE	30	15				1-3	-	Tr	5		000632	44.57	45.42	0.85	0.011	0.07
				FROM 1mm TO 4 cm. ANGULAR TO SUBROUNDED. BRX											000633	45.42	46.75	1.33	0.015	0.56
				IS MATRIX SUPPORTED, MATRIX IS MADE UP OF A											000634	46.75	47.53	0.78	0.011	0.13
				QUARTZ CALCITE MIX. QUARTZ-55% CALCITE 45%											000635	47.53	49.23	1.70	0.010	0.04
				CALCITE IS INTERSTITIAL AS WELL AS VEIN. SOME											000636	49.23	50.88	1.65	0.009	0.04
				CLASTS HAVE GOOD PY/TETR. MINERALIZATION. MINERALIZATION											000637	50.88	51.79	0.91	0.011	0.05
				STAY WITHIN WALL ROCK FRAGMENTS BRECCIA 70%																
				MATRIX 30% OF W.R.P.																
51.79	60.62	8.67	QCVN												000638	51.79	53.26	1.47m	0.012	0.05
CONT'D	ON NEXT													[illegible] 26	000639	53.26	53.92	0.66	0.029	0.05
PAGE															000640	53.92	55.06	1.34	0.029	0.05
															000641	55.06	56.48	1.42	0.009	0.04
															000642	56.48	57.61	1.13	0.01[illegible]	0.03
															000643	57.61	59.13	1.52	0.0[illegible]	0.06

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
															00644	59.13	60.62	1.49m	0.008	0.06
60.62	62.29	5.60	QCBX	AS ABOVE. FINE GRAINED DISSEMINATED PYRITE IN PLACES.	40	10	-	-	-	1-3	-	-	1-2		00645	60.62	62.41	1.79m	0.010	0.07
															00646	62.41	63.70	1.29m	0.011	0.06
															00647	63.70	65.15	1.45m	0.012	0.08
															00648	65.15	66.29	1.14	0.010	0.11
66.29	75.69	9.35	DCLT	AS ABOVE																
				(66.29-66.95) - FAIR SILICIFICATION, PYRITE BLEBS	20	5				1-3			5		00649	66.29	66.35	.06	0.021	0.25
				WITH SOME TETRAHEDRITE STRINGERS.											00650	66.35	67.80	1.45	0.011	0.04
				(66.95) 67.40 - 0.45m + QCVN											00651	67.80	69.38	1.58	0.010	0.05
															00652	69.38	71.76	2.00	0.014	0.73
											0.191, 5.53 Ag				00653	71.33	72.07	1.09	0.182	2.77
				(74.34-75.69) - QTZ/CALCITE VEINING INCREASING											00654	72.07	72.42	0.35	0.220	14.13
												1:44			00655	72.42	74.34	1.92m	0.016	0.16
															00656	74.34	75.69	1.35m	0.011	0.22
75.69	85.04	9.35	QCVN	AS ABOVE	80	5	-	-		1-2			1-2							
															00657	75.69	77.13	1.44	0.009	0.07
															00658	77.13	78.57	1.44	0.008	0.06
															00659	78.57	79.70	1.13		
															00660	79.70	80.70	1.00	0.010	0.06
															00661	80.70	81.99	1.29	0.008	0.09
												-			00662	81.99	83.49	1.50	0.009	0.05
															00663	83.49	85.04	1.55	0.009	0.05
85.04	89.21	3.87	QCBX	AS ABOVE, TETRAHEDRITE STRINGERS	45	10				5			3-5		00664	85.04	86.28	1.24	0.019	0.07
															00665	86.28	86.95	0.67	0.010	0.06
															00666	86.95	88.07	1.12	0.013	0.08
															00667	88.07	89.21	1.14	0.012	0.07
89.21	93.14	3.93	QVN	AS ABOVE	75	10									00668	89.21	90.06	0.85	0.016	0.05
															00669	90.06	91.74	1.68	0.015	0.04
															00670	91.74	93.14	1.40		
93.14	cont'd on next page		QCSV	GOOD QUARTZ/CALCITE VEINING, VEINING HAS DIP OF 32°											00671	93.14	94.18	1.04	0.017	0.03
				GOOD MINERALIZATION AP. MINERALIZATION & MAGNETITE											00672	94.18	94.93	0.75	0.028	0.47
				DISSEMINATED PYRITE VEINS WITH PYRITE CUBES, SOME TETRA STRINGERS											00673	94.93	95.97	1.04	0.029	0.06
															00674	95.97	97.37	1.40	0.029	0.06
															00675	97.37	98.53	1.16	0.015	0.03
															00676	98.53	99.82	1.29	0.020	0.03
															00677	99.82	101.56	1.74	0.015	0.05
															00678	101.56	101.81	0.25m	0.015	0.03

Sheet: 4 of 4

Interval (Specify ft or m) From	To	Recov.	Rock Type	Description	Alteration Qv	Q	S	K	Ca	Sulphides Py	Sp	Ga	Arg	Pyr	Sample No.	From	To	Width	Assays Au oz/t	Ag oz/t
															00679	101.81	102.70	0.89	0.013	0.05
93.14	119.63m	26.40m	QCSW	QUARTZ STOCKWORKING BECOMES LESS INTENSE [illegible] AN	25	10				3-5	7	-	5	-	00680	102.70	103.53	0.83	0.010	0.02
				EXCELLENT NETWORK OF VEINS ATP, STRINGERS OF TETRAHEDRITE											00681	103.53	104.79	1.26	0.016	0.06
				WITH SPOTS OF PYRITE ARE PRESENT, VEINING IN DCLT CRACK											00682	104.79	105.44	0.65	0.013	0.03
				VEINS IS 25°, 70, 90° THICKNESS VARIES FROM [illegible]											00683	105.44	106.19	0.75	0.014	0.02
				NOTE: (109.03-109.93m) - EXCELLENT MINERALIZATION, MASSIVE TETRA											00684	[illegible]	[illegible]	[illegible]	0.010	0.03
				[illegible], PERCENTAGES OF EACH - TETRA: 25, ARG: 15											00685	[illegible]	[illegible]	[illegible]	0.008	0.01
				SPHALERITE: 15, GALENA: 5, V.G. SMALL PATCHES < 1%											00686	[illegible]	108.76	1.06	0.010	0.04
				STOCKWORKING [illegible] AND DOES SEEM TO INTENSIFY TO											00687	[illegible]	[illegible]	[illegible]	0.009	0.02
				[illegible]											00688	[illegible]	[illegible]	[illegible]	0.019	0.50
															00689	[illegible]	[illegible]	0.55	0.046	0.07
															00690	110.49	[illegible]	1.50	0.010	0.02
															00691	[illegible]	113.91	1.43	0.013	0.05
															00692	113.41	114.67	1.26	0.024	0.05
															00693	114.67	115.58	0.91	0.018	0.04
															00694	115.58	115.96	0.38	0.020	0.08
															00695	115.96	116.49	0.53	0.008	0.03
															00696	116.49	118.48	1.99	0.016	0.18
															00697	118.48	119.63	1.15	0.017	0.04
119.63	139.90	20.25m	DCLT	AS ABOVE											00698	119.63	120.97	1.34	0.009	0.02
															00699	120.97	122.07	1.10	0.010	0.03
															00700	122.07	123.13	1.06m	0.011	0.06
															00701	123.13	124.54	1.41m	0.015	0.06
															00702	124.54	126.56	2.02m	0.016	0.07
															00703	126.56	128.33	1.77	0.074	1.26
															00704	128.33	130.23	1.90	0.053	0.96
															00705	130.23	131.40	1.17	0.051	0.31
															00706	131.40	132.58	1.18	0.020	0.04
															NO SAMPLING	132.58	133.35	NO SAMPLING		
															00707	133.35	134.27	0.92	0.049	0.13
															00708	134.27	135.13	0.86	0.036	0.44
															00709	135.13	136.06	0.93	0.010	0.06
															NO SAMPLING	136.06	136.86	NO SAMPLING		
															00710	136.86	137.71	0.85	0.010	0.06
															00711	137.71	138.65	0.94	0.015	0.09
															00712	138.65	139.29	0.64	0.020	0.04
															NO SAMPLING	139.29	139.90	NO SAMPLING		
																	END OF HOLE			

Drill Hole Record

INCLINATION	BEARING	PROPERTY	LENGTH	HOLE No.
COLLAR -40°		LOCATION	HOR. COMP. / VERT. COMP.	SHEET
		ELEVATION	BEARING	LOGGED BY
		COORDINATES	BEGAN / COMPLETED	SAMPLED BY
		S. / E.	CORE SIZE / RECOVERY	

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	TQ	B	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
0.00	1.52	1.52	CASG	CASING - NO CORE RECOVERY																
															NOTE -	NEW	YELLOW	SAMPLE TAGS		
																FOR SHORESTONE.	NOTE 'D'			
1.52	12.17	10.65	DACT	DACITE TUFF - BANDING, LIGHT GREEN COUNTRY ROCK	5	5-10	-	-	10	15-20	Tr	Tr	1-2	-		DESIGNATION	FOR	SAMPLES		
				HARDNESS-4 LOCALIZED MOTTLED APPEARANCE DUE TO PYRITE																
				MINERALIZATION. MILKY WHITE QUARTZ VEINING WITH CO-AS.											D-1501	1.52	3.36	1.84	0.008	0.06
				LATE STAGE TENSION GASHES CARBONATE. [illegible] THICKNESS OF											D-01502	3.36	4.67	1.31	0.004	[illegible]
				VEINING ≤1mm (HAIRLINE) TO 1.0cm. ANGLE OF											D-01503	4.67	5.56	0.89	0.007	[illegible]
				VEINING TO C.A. 45°, 35°. MINERALIZATION, F.G. DISS. PYRITE WITH											D-01504	5.56	7.00	1.44	0.005	[illegible]
				PYRITE BLEBS THROUGHOUT. OCCAS. TETRA. GRAIN IN VEIN AND ALONG											D-01505	7.00	8.67	1.67	0.006	[illegible]
				VEIN EDGE. CORE IN BEGINNING OF HOLE IS STRONGLY BROKEN											D-01506	8.67	8.91	0.24	0.091	[illegible]
				RANGING IN SIZE FROM 1cm TO 6cm.											D-01507	8.91	10.20	1.29	0.007	[illegible]
															D-01508	10.20	12.17	1.97	0.003	[illegible]
				(9.45-9.50) - GOUGE ZONE, STRONGLY CLAY ALTERED, V.F.G.																
				NO BROKEN PIECES COMPLETELY CLAY ALTERED. ANGLE OF																
				GOUGE ZONE TO C.A.																
			QTS(V)	(8.67-8.91) EXCELLENT MINERALIZATION: MASSIVE PYRITE																
				WITH MASSIVE TETRAHEDRITE ALONG VEIN EDGE AS WELL AS																
				CENTRE. HONEY SPHALERITE, MASSIVE KNOTS																
12.17	14.33	2.16	QCBX	QUARTZ CARBONATE BRECCIA - MILKY WHITE QUARTZ	35-45	20-25	-	-	15-20	10-15	-	-	Tr-1		D-01509	12.17	13.37	1.20	0.006	0.18
				AND INTERSTITIAL CARBONATE MATRIX WITH SMOKEY GREY											D-01510	13.37	14.33	0.96	0.051	1.05
				QUARTZ. GREY QUARTZ DUE TO RELIC COUNTRY ROCK FRAGS																
				BRECCIA FRAGS RANGE IN SIZE FROM 1mm TO 2.5cm																
				AVG SIZE 1.0cm. MINERALIZATION: F.G. DISS. PYRITE																
				WITH MASSIVE PYRITE KNOTS, OCCAS. F.G. TETRAHEDRITE																
				COLOURATION. ALONG SOME CLAST EDGES																

Interval From	Interval To	Recov.	Rock Type	Description	Alteration					Sulphides					Sample	From	To	Width	Assay	
13.93	23.87	9.94	QCSW	[illegible] COUNTRY ROCK [illegible] WITH INTERSTITIAL CALCITE. THICKNESS OF VEINING RANGES FROM 1mm TO 1.5cm. AVG THICKNESS 4mm. ANGLE OF QUARTZ CALCITE VEINING TO C.A. 35° & 45°. MINERALIZATION: F.G. DISS PYRITE, WITH OCAIS PYRITE KNOTS. TETRAHEDRITE ENVELOPES WITH TETRAHEDRITE GRAINS IN VEINLET CENTRES AND ALONG VEIN EDGES. (20.42-22.46) - 2.04 - FAIR TO GOOD MINERALIZATION WITH TETRAHEDRITE ENVELOPES WITH OCAIS TETRAHEDRITE GRAINS. HEAVY SPHALERITE KNOTS.											[illegible]	[illegible]	15.94	[illegible]	[illegible]	[illegible]
															D-01512	15.94	17.37	1.43	0.005	0.01
															D-01513	17.37	19.05	1.68	0.005	0.01
															D-01514	19.05	20.42	1.37	0.007	0.08
															D-01515	20.42	22.46	2.04	0.004	0.19
															D-01516	22.46	23.87	1.41	0.005	0.01
23.87	25.64	1.77	QCBX	QUARTZ CALCITE BRECCIA: MILKWHITE QUARTZ MATRIX WITH INTERSTITIAL CaCO3. LIGHT GREY F.G. COUNTRY ROCK FRAGMENTS. HARDNESS 5. STRONGLY SILICIFIED. SIZE OF FRAGMENTS RANGE FROM 3mm TO 4½cm. AVG. SIZE 1.0cm. [illegible] AND GREY FRAGMENTS DISCOLOUR MATRIX TO LIGHT GREY [illegible]. MINERALIZATION: F.G. DISS PYRITE WITH MASSIVE KNOB OF TETRAHEDRITE 1.6mm IN SIZE. OCAIS PYRITE STRINGERS. FAIR TO GOOD MINL AT?	MATRIX 55-65	15-20	-	-	10	10	-	Tr	1-3	-	D-01517	23.87	25.64	1.77	0.008	[illegible]
[illegible]64	30.55	9.91	QCSW	QUARTZ CALCITE STOCKWORK: LIGHT GREY TO GREEN F.G. COUNTRY ROCK WITH MILKY WHITE QUARTZ/CALCITE VEINS. VEINS RANGE IN THICKNESS FROM 1mm (HAIRLINE) TO 3.2mm. AVG. SIZE IS ABOUT 1.0cm. ANGLE OF VEINLETS TO C.A. 15.55°, 20°, 35°. MINERALIZATION: F.G. DISS PYRITE WITH OCAIS PYRITE STRINGERS. TETRAHEDRITE GRAINS ALONG QUARTZ [illegible] AND QUARTZ CENTRE. [illegible] LOCALIZED ZONES OF MASSIVE PYRITE KNOTS.	25-35	10-15	-	-	15	10	Tr	Tr	Tr-1	-						
															D-01518	25.64	27.02	1.38	0.010	0.01
															D-01519	27.02	28.22	1.20	0.013	0.01
															D-01520	28.22	29.57	1.35	0.005	0.05
															D-01521	29.57	30.55	0.98	0.007	0.12

INTERVAL From	To	RECOV	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE	From	To	Width	ASSAY	
30.55	31.33	0.78	[illegible]	[illegible]	[illegible]								Tr		[illegible]					
				[illegible] WITH INTERSTITIAL [illegible]																
				[illegible] HARDNESS 5. MATRIX [illegible]																
				SUBROUNDED TO SUBANGULAR. SIZE OF FRAGMENTS RANGE																
				FROM 1/2mm TO 8.0mm. AVERAGE SIZE [illegible]																
				MINERALIZATION: F.G. DISS PYRITE, [illegible] PYRITE STRINGERS																
				OCCAS TETRAHEDRITE GRAINS																
31	34.59	3.26	QCVN	QUARTZ CARBONATE VEIN; MILKY WHITE QUARTZ CARBONATE	35	–	–	–	20	Tr-1	Tr-1	Tr	1-2	–	D-01523	31.33	32.48	1.15	0.008	0.12
				VEIN, GRADATIONAL CONTACT, MASSIVE TETRAHEDRITE GRAINS							+ Electrum				D-01524	32.48	32.56	0.08	184.554	74.46 *
				WITH OCCAS TETRAHEDRITE [illegible] FILL PYRITE [illegible]											D-01525	32.56	33.52	0.96	0.014	0.39
				WITH OCCAS MASS PYRITE KNOTS. BOTH CONTACTS UPPER AND											D-01526	33.52	34.59	1.07	0.013	0.66
				LOWER ARE GRADATIONAL.																
34.59	38.47	3.88	QCBX	QUARTZ CALCITE BRECCIA - MILKY WHITE TO GREY QUARTZ	50-55	15-20	–		10-15	10-15	–	–	1-2	–						
				CALCITE MATRIX. FRAGMENTS OF [illegible] ROCK RANGE IN											D-01527	34.59	35.66	1.07	0.015	0.21
				SIZE FROM 1/2mm TO 8.0mm AVG. 2.0mm, MINE-											D-01528	35.66	36.83	1.17	0.009	[illegible]
				RALIZATION: F.G. DISS PYRITE WITH OCCAS. PYRITE KNOTS.											D-01529	36.83	38.47	1.64	0.010	[illegible]
				SPARSE TETRAHEDRITE GRAINS ALONG VEIN EDGE AS WELL AS																
				VEIN CENTRE																
38.47	52.75	14.28	QCSW	QUARTZ CALCITE STOCKWORK, LIGHT GREY GREEN WITH	20-25	15-20	–	–	10-15	10	Tr	–	1-2	–	D-01530	38.47	39.72	1.25	0.016	0.37
				DARK CLAY ALTERED FRAGMENTS RANGING SIZE [illegible]											D-01531	39.72	41.28	1.56	0.005	0.02
				WITH NO PREFERRED ORIENTATION, MILKY WHITE QUARTZ											D-01532	41.28	42.52	1.24	0.010	0.06
				VEINS WITH THICKNESSES OF THE FOLLOWING											D-01533	42.52	43.48	0.96	0.006	0.01
				4mm TO 1.5cm. AVG 0.8cm. ANGLE OF											D-01534	43.48	45.59	2.11	0.008	0.01
				QUARTZ/CALC VEINS TO C.A.: 50°, 35°, 25°, 80°											D-01535	45.59	46.93	1.34	0.001	0.01
				MINERALIZATION: F.G. DISS. PYRITE WITH OCCAS											D-01536	46.93	48.25	1.32	0.003	0.01
				LOCALIZED ZONES OF MASSIVE PYRITE KNOTS. TETRAHEDRITE											D-01537	48.25	49.62	1.37	0.02[illegible]	[illegible].77
				GRAINS ALONG VEIN EDGE AS WELL AS VEIN CENTRE											D-01538	49.62	51.47	1.85	0.052	[illegible].31

* Electrum

Interval From	Interval To	Recov	Rock Type	Description	Alteration					Sulphides					Sample No.	From	To	Length	Assays	
[illegible]	[illegible]	14.28	[illegible]	(Cont'd from last page) (51.47 – 52.75) – [illegible] mineralization – massive tetrahedrite knots, with occas tetrahedrite [illegible] massive pyrite knots as well as pyrite stringers											[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52.75	54.40	1.65	QCBX	QUARTZ CALCITE BRECCIA – milky white quartz with interstitial $CaCO_3$. Country rock light to dark grey, matrix supported, subrounded to angular fragments range in size from 1mm to 6.0 cm. Avg size 1.0 cm. Mineralization, f.g. diss pyrite. Angle of contact of quartz stockwork is 37°. Good mineralization potential. Tetrahedrite bands, tr. (trace) pyrite.	60-65 (matrix)	15-25	–	–	10-15	10-15	Tr-1	Tr	2-4		D-01540	52.75	54.90	1.65	0.016	1.35
54.40	61.14	6.74	QCSW	QUARTZ CALCITE STOCKWORK – milk white quartz veining with late stage $CaCO_3$ veining. Thickness of veining ranges from <1mm (hairline) to 1.5 cm. Avg 1.0 cm. Angle of veining to C.A. 15 35°, 25, 50°, 80°. Mineralization f.g. diss pyrite with occas massive pyrite knots. Weak to moderate clay alt'n	20	15	–	–	10	15	Tr	–	2-4	–						
															D-01541	54.40	56.09	1.69	0.004	0.08
															D-01542	56.09	57.38	1.29	0.004	0.16
															D-01543	57.38	59.32	1.94	0.003	0.28
															D-01544	59.32	60.51	1.19	0.007	0.14
															D-01545	60.51	61.14	0.63	0.018	0.38
61.14	63.09	1.95	QCBX	QUARTZ CALCITE BRECCIA – milky white quartz matrix with interstitial calcite, light to dark grey country rock fragments, matrix supported, fragments rounded to subangular, ranging in size from 1mm to 1cm, avg 1.5mm, mineralization f.g. diss pyrite with occas pyrite stringers, occas tetrahedrite fracture fill. Fair mineralization potential.	60 (matrix)	10	–	–	10-15											
															D-01546	61.14	61.84	0.70	0.016	0.23
															D-01547	61.84	63.09	1.25	0.077	1.07

Interval From	To	Recov.	Rock Type	Description	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Sulph. 1	Sulph. 2	Sulph. 3	Sulph. 4	Sulph. 5	Sample No.	From	To	Width	Au oz/t	Assay 2
63.09	[illegible]	18.87	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]						D-01549	67.83	65.41	[illegible]	[illegible]	[illegible]
				[illegible]											D-01550	65.71	66.30	[illegible]	[illegible]	[illegible]
				TO [illegible] [illegible] GRAINS [illegible]											D-01551	66.30	66.93	[illegible]	0.009	[illegible]
				[illegible] RANGE FROM 2mm TO 10mm, AVG SIZE 3.0mm [illegible]											D-01552	66.93	67.94	1.0[illegible]	0.004	[illegible]
				P.G. DISS PYRITE WITH [illegible] [illegible] [illegible]											D-01553	67.94	68.69	0.35	0.009	0.01
				QUARTZ [illegible] [illegible] QUARTZ DECREASES											D-01554	68.69	69.91	1.22	0.012	0.01
				FAIR TO POOR MINERALIZATION WITH MODERATE CLAY																
				ALTERATION																
				(73.29-73.93) - SHEAR ZONE, [illegible] [illegible] CLAY [illegible]																
				WITH MODERATE TO WEAK FABRIC, ANGLE OF ALIGNMENT TO C.A.																
				IS 40°. MODERATE TO WEAK CLAY ALTN																
81.96	88.15	6.19	DACT	DACITE TUFF - FINE GRAINED, LIGHT GREEN WITH	2-5	5-10	-	-	25-30	10	-	-	-	-						
				10% WELL ROUNDED WHITE [illegible] GRAINS RANGE IN																
				SIZE FROM ≤1mm TO 10mm. [illegible] TO CARBONATE. LATE																
				STAGE LIGHT YELLOW ANKERITE VEINING WITH INTERSTITIAL																
				QUARTZ, VEINS RANGE IN THICKNESS FROM ≤1mm (HAIRLINE)																
				[illegible] TO 5mm WIDE. IRREGULAR VEIN EDGES,																
				RUSTY LIGHT ORANGE ALTERATION ALONG [illegible] FRACTURE																
				PLANE. FRACTURE PLANES VARY IN C.A.A. [illegible] [illegible]																
				MENTS NOT HELPFUL. MODERATE CLAY ALTE N																
				ANGLE OF ANKERITE VEINING TO C.A. 40°, 55°, 80°																
				SHARP [illegible] ANGLE OF CONTACT (UPPER) TO C.A. IS 40°																
				SAME ANGLE TO C.A. OF 40° FOR LOWER CONTACT																
				(43.80-43.50) - [illegible] [illegible] [illegible] [illegible]																
				FRACTURE ZONE																
88.15	92.62	4.47	DCLT	DACITE LAPILLI TUFF - LIGHT GREY TO DARK GREY MATRIX [illegible] [illegible]											D-01555	90.53	91.32	0.79	0.003	0.08
				CLAY ALTERED FRAGMENTS RANGING IN SIZE from ≤1mm to [illegible]											D-01556	91.32	92.62	1.30	0.005	0.08
				NO PREFERRED ALIGNMENT. MODERATE TO STRONG CLAY/																
				CARBONATE ALTERATION, MINERALIZATION: [illegible] OF																
				PYRITE MINERALIZATION WITH MODERATE [illegible] ANGLE OF																
				FABRIC TO C.A. IS 55°. POOR MINERALIZATION ATP.																

INTERVAL From	INTERVAL To	RECOV	ROCK TYPE	DESCRIPTION	ALTERATION Cv	Q	S	K	Ca	SULPHIDES Py	Sb	[illegible]	As	[illegible]	SAMPLE No.	From	To	Width	ASSAYS [illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	15-20	Tr-5	-	35-40	10										
				[illegible] 4 QUARTZ/CARBONATE [illegible]											D-01557	92.62	94.21	1.59	[illegible]	[illegible]
				RANGING IN SIZE FROM 3 mm TO [illegible]											D-01558	94.21	94.56	0.35	0.105	[illegible]
				VEINLETS [illegible] TO 5 mm. MILKY WHITE [illegible]											D-01559	94.56	95.64	1.08	0.014	[illegible]
				ANGLE OF VEINLETS TO C.A. 55°, [illegible]											D-01560	95.64	97.12	1.48	0.011	0.89
				MODERATE C.A.C. ALTERATION WITH [illegible]											D-01561	97.12	98.72	1.60	0.013	0.18
				SECOND. IN [illegible] VEINS. SPARSE F.G. DISS PYRITE WITH											D-01562	98.72	100.17	1.45	0.005	0.34
				[illegible] STRINGERS OF PYRITE 1-2 mm WIDE.											D-01563	100.17	101.07	0.90	0.024	2.49
															D-01564	101.07	102.72	1.65	0.004	0.19
				(94.21-94.56) FAIR TO GOOD MINERALIZATION, [illegible]											D-01565	102.72	104.90	2.18	0.004	0.11
				[illegible] QUARTZ VEIN, PYRITE STRINGERS											D-01566	104.90	105.56	0.66	0.002	0.09
				WITH DISS PYRITE KNOTS.											D-01567	105.56	106.53	0.97	0.003	0.11
															D-01568	106.53	107.45	0.92	0.007	0.14
															D-01569	107.45	108.67	1.22	0.007	0.13
															D-01570	108.67	108.99	0.32	0.398	17.90
108.99	119.90	10.91	DCTF	DACITE TUFF - LIGHT GREY TO GREEN, DARK MOTTLED	5	1-5	Tr-1	-	15-25	10	-	-	Tr		D-01571	108.99	109.87	0.88	0.006	0.06
				APPEARANCE DUE TO [illegible]. CARBONATE VEINLETS PRESENT												NO SAMPLING				
				RANGING IN THICKNESS FROM [illegible] ([illegible] mm) TO 15 cm.											D-01572	112.64	113.17	0.53	0.006	0.05
				AVG THICKNESS ½ cm. ANGLE OF VEINING TO C.A. IS 55-60°											D-01573	113.17	113.60	0.43	0.004	0.03
				ANKERITE VEINLETS DISS SPARSELY THROUGHOUT.											D-01574	113.60	114.91	1.31	0.003	0.02
															D-01575	114.91	116.39	1.48	0.003	0.01
				(113.17-113.60)																
			QCSW	QUARTZ CALCITE STOCKWORK - CROSS CUTTING MILKY WHITE QUARTZ	25-30	15-20	-	-	15	1/2	-	-	Tr-1							
				CALCITE VEINLETS RANGING IN THICKNESS FROM [illegible] TO [illegible]																
				AVG SIZE 8.0 mm, ANGLE OF VEINING TO C.A. 15, 45, 50° [illegible]																
				STOCKWORKING [illegible].																
119.90	127.10	7.20	DCLT	DACITE LAPILLI TUFF - (AS ABOVE) LIGHT TO DARK GREY	Tr-1	-	Tr-5	-	25-30	10	-	-	Tr	-						
				COLOURED ROCK WITH SMALL ANGULAR TO SUBANGULAR [illegible]																
				CLAY FRAGMENTS RANGING IN SIZE [illegible] TO 2 mm IN																
				SIZE NO PREFERRED ORIENTATION. OCCAS CARBONATE [illegible]																
				AND [illegible] 1-2 mm WIDE. ANGLE TO C.A.																
				55-60°. OCCASIONAL CONTACT [illegible] QUARTZ/CARBONATE																
				ZONE. F.G. DISS PYRITE WITH SMALL PYRITE STRINGERS.																

Interval From	To	Recov	Rock	Description	Alteration QV	Q	S	K	Ca	Sulphides Py	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	DCLT	DACITE LAPILLI TUFF - (CONT'D FROM LAST PAGE)										
				(126.35 - 126.83) - SHEAR ZONE ... FRAGMENTS ...										
				A MODERATE TO STRONG FABRIC. ANGLE OF FABRIC TO C.A. [illegible] 35°										
				STRINGERS OF ... MODERATE CLAY										
				ALTERATION. NO ... NO ...										
127.10	165.11	38.01	QCZN (DALT)	QUARTZ CALCITE ZONE LIGHT GREY TO GREEN F.G. COUNTRY	5-10	1-5	-	-	25-30	10-15	-	-	Tr-1	-
				ROCK. HARDNESS 3½-4. MODERATE TO WEAK CLAY ALTERATION										
				WITH STRONG $CaCO_3$ ALT[n], PERVASIVE THROUGHOUT. QUARTZ/										
				CARBONATE SHEATS 1-3cm WIDE. CARBONATE VEINLETS										
				RANGING IN THICKNESS FROM ≤1mm (HAIRLINE) TO 2½cm.										
				AVG THICKNESS ½cm. ANGLE OF VEINING TO C.A. 55°, 75°-85°										
				PROTOLITH - DACITE LAPILLI TUFF TO DACITE TUFF										
				MINERALIZATION - F.G. DISS PYRITE WITH [illegible] PYRITE										
				STRINGERS. TETRAHEDRITE ENVELOPES AROUND CARBONATE										
				VEINS. MOSTLY CARBONATE [illegible]										
			DCZN. (DCTF)	(144.94 - 148.44) - DACITE TUFF. - F.G. LIGHT GREEN										
				WITH F.G. DISS. PYRITE										

Sample Number	From	To	Width	Au oz/t	Ag oz/t
D-01576	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D-01577	127.10	127.85	0.75	0.029	0.68
D-01578	127.85	129.40	1.55	0.008	0.01
D-01579	129.40	131.02	1.62	0.006	0.01
D-01580	131.02	132.48	1.46	0.007	0.07
D-01581	132.48	133.78	1.30	0.007	0.01
D-01582	133.78	135.11	1.33	0.005	0.01
D-01583	135.11	136.89	1.78	0.005	0.01
D-01584	136.89	137.87	1.05	0.006	0.03
	NO SAMPLING				
D-01585	142.34	143.40	1.06	0.004	0.01
D-01586	143.40	143.66	0.26	0.004	0.01
D-01587	143.66	144.94	1.28	0.003	0.01
D-01588	144.94	145.63	0.69	0.004	0.01
D-01589	145.63	146.69	1.06	0.003	0.01
D-01590	146.69	148.44	1.75	0.005	0.01
D-01591	148.44	149.78	1.34	0.004	0.01
D-01592	149.78	151.36	1.58	0.003	0.01
D-01593	151.36	152.03	0.67	0.003	0.01
D-01594	152.03	152.89	0.86	0.004	0.01
D-01595	152.89	154.33	1.44	0.005	0.01
D-01596	154.33	155.41	1.08	0.005	0.01
D-01597	155.41	156.35	0.94	0.006	0.01
D-01598	156.35	157.74	1.39	0.006	0.01
D-01599	157.74	158.97	1.23	0.004	.01
D-01600	158.97	160.47	1.50	[illegible]	[illegible]

INTERVAL From	INTERVAL To	RECOV.	ROCK	DESCRIPTION	ALTERATION Qv	ALTERATION Q	ALTERATION S	ALTERATION K	ALTERATION Ca	SULPHIDES Py	SULPHIDES Sp	SULPHIDES Ga	SULPHIDES Aus	SULPHIDES Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	ASSAYS Ag oz/t
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] ZONE (CONT'D FROM LAST PAGE)											D-1601	160.47	161.55	1.08	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]											D-1602	161.55	162.75	1.20	0.005	0.17
[illegible]	[illegible]	[illegible]	[illegible]	([illegible]) QCBW - QUARTZ CALCITE [illegible]	Tr-5	1-5	-	-	25-35	5-10	-	-	Tr	—	D-1603	162.75	163.58	0.83	0.004	0.09
				[illegible] CARBONATE/QUARTZ VEINLETS RANGING											D-1604	163.58	164.32	0.74	0.007	0.14
				IN THICKNESS <1mm TO 1cm WIDE, AVG THICKNESS 1/2cm.											D-1605	164.32	165.11	0.79	0.093	2.07
				ANGLE OF CARBONATE VEINLETS TO C.A IS 40°-85°.																
165.11	167.16	2.05	QCZN (QCBX)	QUARTZ CARBONATE ZONE (PROBABLY ANDESITE? BRECCIA)	Tr-5	1-5	-	-	30-35	5-10	-	-	Tr	-						
				MODERATELY CLAY ALTERED WITH STRONG SERICITE?																
				ALTERATION). MATRIX SUPPORTED CLASTS, MATRIX IS A DARKER											D-01606	165.11	166.27	1.16	0.004	0.03
				COLOUR THAN FRAGMENTS, FRAGS RANGE IN SIZE											D-01607	166.27	167.16	0.89	0.003	0.01
				3mm TO 9cm WIDE. AVG SIZE IS 3cm.																
				SUBROUNDED TO ANGULAR - CARBONATE STRINGERS																
				<1mm TO 3mm WIDE.																
167.16	172.83	5.67	QCZN (SILTSTN)	QUARTZ CARBONATE ZONE: MODERATE TO	Tr-5	-	Tr	-	25-30	10	-	-	Tr	-	D-01608	167.16	167.84	0.68	0.005	0.01
				STRONG CLAY ALTERATION, WITH STRONG CARBONATE ALT'N											D-01609	167.84	169.26	1.42	0.003	0.02
				CARBONATE VEINING RANGES IN THICKNESS FROM <1mm											D-01610	169.26	169.77	0.51	0.004	0.06
				TO 1.5cm. AVG 1.0cm. ANGLE OF CARBONATE											D-01611	169.77	171.16	1.39	0.005	0.02
				VEINS TO C.A ARE 10-15°, 25-30°.											D-01612	171.16	172.83	1.67	0.004	0.01
				(169.77 - 170.70) - STRONGLY BROKEN CORE												NO SAMPLING				
				HEAVILY CLAY ALTERED. FRAGMENTS OF CORE																
				RANGING IN SIZE FROM 1/2mm TO 10.0mm WIDE																
				ANGLE OF SHEARING TO C.A. IS 55°, ALIGNMENT																
				OF SHEARED FRAGS TO THE SHEARING [illegible]																

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.		WIDTH	ASSAYS	
172.83	175.01	2.18	HELT	HETEROLITHIC TUFF – [illegible] [illegible] FRAGS. ANGULAR TO SUB-ROUNDED, RANGING IN SIZE FROM 14cm TO 1/2 mm. WITH WHITE PLAG GRAINS, STRONGLY [illegible] ALTERED. MODERATE CLAY ALTN. VARIETY OF DIFF. ROCK FRAGMENTS. F.G. DISS PYRITE GRAINS THROUGHOUT FRAGMENT [illegible]															
175.01	178.30	3.29	ANTF	ANDESITE TUFF – LIGHT GREY FINE GRAINED. MODERATE TO STRONG CARBONATE ALTN. WITH [illegible] LATE STAGE CARBONATE VEINLETS. RANGE IN THICKNESS 5/10mm (HAIRLINE) TO 2mm. MODERATE TO WEAK CLAY ALTN. ANGLE OF CARB. VEINS IS 35° TO 60° (177.85 - 178.53) – V. STRONGLY BROKEN CORE. MODERATE TO STRONG CLAY ALTN., MODERATE $CaCO_3$ ALTN., CORE FRAGS RANGE IN SIZE FROM 2mm TO 5 1/2 cm. FRACTURE PLANES IRREGULAR EDGES WITH NO SPECIFIC ORIENTATION. CONTACT OF ZONE HAS ANGLE TO C.A. OF 35°				25-35											
178.30	183.49	5.19	HELT	HETEROLITHIC TUFF (AS ABOVE) (179.49 - 179.61) – GOUGE ZONE, STRONGLY CLAY ALTERED BROKEN FRAGS. ANGLE OF ZONE TO C.A. IS 50° 183.49m EOH 602 FEET EOH	TR-1	–	TR5	–	30-35	5	–	–	–	–					

NEWHAWK GOLD MINES
Drill Hole Record

INCLINATION | BEARING | PROPERTY | LOCATION | ELEVATION | COORDINATES | LENGTH | HOLE NO. | SHEET 1 OF | LOGGED BY | SAMPLED BY | BEGAN | COMPLETED | CORE SIZE | RECOVERY %

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	B	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
0.00	2.74	2.74	CASG	CASING - NO CORE RECOVERY																
2.74	10.52	5.97	QCSW	QUARTZ CALCITE STOCKWORK - WEAK TO MODERATE	20-25	15-20	–	–	15	10	TR	TR	TR-	LESS 1 BL	D-01613	2.74	5.22	2.48	0.014	1.36
				STOCKWORKING, STRONGLY SILICIFIED COUNTRY ROCK											D-01614	5.22	6.73	1.51	0.023	2.21
				COUNTRY ROCK LIGHT GREEN COLOUR. F.G. WITH F.G. [illegible] SECTIONS WITH [illegible] GRAINS. HARDNESS 5-5½											D-01615	6.73	7.74	1.01	0.003	5.22
				STRONGLY BROKEN CORE AT START OF HOLE. RUBBLE OF FRAGMENTS											D-01616	7.74	9.54	1.80	0.006	0.03
				(2.74 m to 5.22 m). FRACTURE FACES ARE STRONGLY											D-01617	9.54	10.52	0.98	0.019	0.34
				ALTERED RUSTY RED BROWN, WITH SOME DARK BROWN TO BLACK ALTN. ALTERATION LOCALIZED TO FRACTURE PLANES, REACTION RIMS AROUND PLANES, RUSTY RED HALOS RANGING IN THICKNESS FROM 3mm TO 1cm WIDE. SIZE OF FRAG. 1cm TO 10cm AVG. 4cm.																
				CARBONATE HAS BEEN [illegible] LEAVING VUGS. VUGS QUARTZ CRYSTAL GROWTH [illegible] AVG.																
				MINERALIZATION: F.G. DISS PYRITE WITH [illegible] PYRITE KNOTS, MASS. TETRAHEDRITE FRACTURE FILL WITH KNOTS OF MASSIVE SPHALERITE.																
				(6.73 - 7.74): GOOD MINERALIZATION - MASSIVE TETRAHEDRITE FRACTURE FILL, MASSIVE SPHALERITE KNOTS, F.G. DISS PYRITE [illegible] MASSIVE PYRITE KNOTS AND FRACTURE FILL.																
10.52	17.46	6.94	QCBX	QUARTZ CALCITE BRECCIA - LIGHT GREY TO GREEN	MATRIX 35	10	–	–	25	10	–	–	TR-1	–	D-01618	10.52	12.28	1.76	0.005	0.17
				WALL ROCK FRAGS: MATRIX SUPPORTED, [illegible]											D-01619	12.28	13.08	0.80	0.034	0.54
				RANGE IN SIZE FROM 7mm TO 60mm. AVG. SIZE											D-01620	13.08	14.33	1.25	0.024	0.74
				1.5cm. MILKY WHITE QUARTZ MATRIX WITH GREEN [illegible] "GHOST"											D-01621	14.33	16.10	1.77	0.013	0.19
				FRAGS. MINERALIZATION: F.G. DISS PYRITE, [illegible]											D-01622	16.10	17.46	1.36	0.004	0.36
				[illegible], SPARSE TETRAHEDRITE GRAINS WITH [illegible] AROUND FRAGMENT EDGES.																

INTERVAL (Specify ft. or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Ang	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
17.46	28.33	10.87	QCS(W)	QUARTZ CALCITE STOCKWORK - LIGHT GREY TO GREEN COUNTRY ROCK WITH MAFIC CLAY FRAGMENTS, RANGE IN SIZE FROM ½-2mm. NO PREFERRED ORIENTATION. MILKY WHITE QUARTZ/CARBONATE VEINING. SOME CARBONATE VEINS HAVE LIGHT RUSTY RED [illegible] RIMS. THICKNESS OF VEINING RANGES FROM 1/2mm TO 2.5cm. AVG THICKNESS 1.0cm. MINERALIZATION: F.G. DISS PYRITE WITH OCCAS PYRITE SPECKS OF FINE SMALL [illegible]. SPARSE TETRAHEDRITE GRAINS ALONG VEIN CONTACTS AND CENTRE. ANGLE OF QUARTZ VEINS TO C.A. 50°, 25°, 35°, 85°	10-15	10	-	-	25-35	10-15	Tr	-	Tr-1	-	D-01623	17.46	19.05	1.59	0.009	0.13
															D-01624	19.05	20.42	1.37	0.008	0.12
															D-01625	20.42	21.96	1.54	0.015	0.25
															D-01626	21.96	23.43	1.47	0.034	2.03
															D-01627	23.43	24.45	1.02	0.009	0.19
															D-01628	24.45	25.89	1.44	0.014	0.34
															D-01629	25.89	27.28	1.39	0.025	0.19
															D-01630	27.28	28.33	1.05	0.011	0.16
28.33	29.98	1.65	QCBX	QUARTZ CALCITE BRECCIA - MILKY WHITE QUARTZ CARBONATE MATRIX. BRECCIA CLASTS LIGHT GREY COUNTRY ROCK MODERATELY SILICIFIED. SMALL MAFIC GRAINS MADE UP OF ANGULAR TO SUBROUNDED, CLAY ALTERED [illegible] 20% [illegible] 1mm TO 2mm WIDE. COUNTRY ROCK CLASTS IN BRECCIA [illegible] SUBANGULAR TO ANGULAR RANGE IN SIZE FROM 2mm TO 7.0cm [illegible] FINE TO POOR MINERALIZATION [illegible]	35-40	10	-	-	25-30	15	Tr	-	Tr-1	-	D-01631	28.33	29.98	1.65	0.005	0.11
29.98	32.78	2.80	QCVN	QUARTZ CALCITE VEIN - MILKY WHITE QUARTZ CALCITE VEIN WITH [illegible] COUNTRY ROCK FRAGMENTS [illegible] RANGE IN SIZE FROM [illegible] TO 1.5cm [illegible] FRAGS ARE LIGHT GREY FINE GRAINED [illegible] F.G. DISS PYRITE [illegible] TO [illegible]	60	-	-	-	25	5	Tr	-	Tr-2	-	D-01632	29.98	31.93	1.95	0.013	0.32
															D-01633	31.93	32.78	0.85	0.015	0.30

Sheet 3 of 3

INTERVAL From	INTERVAL To	RECOV	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Aps	Pyo	SAMPLE NUMBER	FROM	TO	WIDTH	ASSAYS Au	Ag oz/t
32.78	33.58	0.80	QCSW	QUARTZ CALCITE STOCKWORK - LIGHT GREY	25-30	15	–	–	15-20	10	–	–	Tr-1	–	D-01634	32.78	33.58	0.80	0.012	0.34
				FINE GRAINED COUNTRY ROCK, HARDNESS 5, STRONGLY																
				SILICIFIED VEINS RANGE IN THICKNESS FROM 1 (mm HAIRLINE)																
				TO 2½ cm, AVG THICKNESS 1.5 cm. ANGLE OF																
				QUARTZ CALCITE VEINS TO C.A. 65°, 30°, 45°. MINERALIZATION																
				F.G. DISS PYRITE WITH OCCAS COARSE PYRITE [illegible]																
				MAY HAVE V.F.G. TETRA.																
33.58	48.73	15.15	QCVN	QUARTZ CALCITE VEIN - MILKY WHITE QUARTZ	60	–	–	–	30	5	Tr-1	Tr	1-3	–						
				CARBONATE VEIN, WITH OCCAS SUBANGULAR LIGHT GREY																
				WALL ROCK FRAGS. FRAGS RANGE IN SIZE FROM 1cm											D-01635	33.58	34.76	1.18	0.003	0.01
				TO 11cm, AVG 2cm. LOCALIZED VUGS WITH DRUSY											D-01636	34.76	36.37	1.61	0.010	0.78
				QUARTZ. SIZE OF VUGS RANGES FROM ½cm TO 1.5cm.											D-01637	36.37	37.97	1.60	0.012	1.20
															D-01638	37.97	38.71	0.74	0.012	0.72
				(38.71 - 40.60) 1.89 - GOOD MINERALIZATION, SMALL											D-01639	38.71	40.60	1.89	0.013	0.36
				≤1mm GRAINS OF TETRA, WITH KNOTS OF BLONDE											D-01640	40.60	41.62	1.02	0.008	0.24
				SPHALERITE, TRACE GALENA.											D-01641	41.62	43.16	1.54	0.013	0.91
															D-01642	43.16	44.15	0.99	0.009	1.06
															D-01643	44.15	45.98	1.83	0.004	0.05
															D-01644	45.98	46.95	0.97	0.006	0.04
48.73	52.73	4.00	QCBX	QUARTZ CARBONATE BRECCIA - MILKY WHITE QUARTZ	30	–	–	–	25	10	Tr	Tr	1-3	–	D-01645	46.95	48.73	1.78	0.007	0.48
				CARBONATE MATRIX, COUNTRY ROCK FRAGMENTS, LIGHT																
				GREY STRONGLY SILICIFIED, HARDNESS 5-6½, RANGE IN																
				SIZE FROM 3mm TO 6cm, AVG SIZE 1.5cm, MATRIX																
				SUPPORTED FRAGS WITH SUBROUNDED TO ANGULAR FRAGMENTS.											D-01646	48.73	49.85	1.12	0.010	0.13
				MINERALIZATION: F.G. DISS PYRITE WITH LOCALIZED PYRITE STRINGERS.											D-01647	49.85	52.18	2.33	0.030	2.33
				TETRAHEDRITE, RANGES FROM [illegible] TETRAHEDRITE [illegible] WITHIN											D-01648	52.18	52.73	0.55	0.002	0.06
				QUARTZ/CALCITE MATRIX TO OCCAS TETRA ENVELOPES AROUND																
				FRAGMENTS. OCCAS LOCALIZED VUGS WITH DRUSY QUARTZ.																
				(48.73 - 49.85) - GOOD MINERALIZATION, TETRAHEDRITE																
				GRAINS ≤1mm TO 2mm SIZE DISSEMINATED THROUGHOUT,																
				SMALL KNOTS OF BLONDE SPHALERITE.																
				52.73 EOH } EOH																
				178 FEET																

NEWHAWK GOLD MINES

Drill Hole Record

INCLINATION / BEARING	PROPERTY	LENGTH	HOLE No.
COLLAR	LOCATION	HOR. COMP. / VERT. COMP.	Sheet
	ELEVATION	BEARING	LOGGED BY: DGH
	COORDINATES: S / E	BEGAN: / COMPLETED:	SAMPLED BY:
		CORE SIZE: BQ / RECOVERY:	

INTERVAL (Specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
0.00	2.74	2.74	CASG	CASING - NO CORE RECOVERY																
2.74	3.08	0.34	OVBD	OVERBURDEN - [illegible] ROCK, SUBROUNDED TO ANGULAR																
				CORE FRAGS RANGING IN SIZE FROM 1cm TO 4cm.																
				[illegible] ALTERED [illegible]																
3.08	8.65	5.57	QCSW	QUARTZ CALCITE STOCKWORK - WEAK QUARTZ STOCKWORK	15-20	5-10	–	–	15	10-15	–		Tr	–	D-01649	3.08	4.83	1.75	0.025	0.13
				LIGHT GREEN COUNTRY ROCK, F.G., WITH OCCAS. DARK											D-01650	4.83	6.13	1.30	0.006	0.12
				GREEN GRAINS. F.G. DIS PYRITE WITH OCCAS. PYRITE KNOTS											D-01651	6.13	7.22	1.09	0.004	0.01
				THROUGHOUT. ALIGNMENT OF PYRITE GRAINS INTO MODERATE											D-01652	7.22	8.65	1.43	0.023	0.05
				STRONG FABRIC. ANGLE OF FABRIC TO C.A. IS 53°. MILKY																
				WHITE QUARTZ CARBONATE VEINING, [illegible] IN THICKNESS																
				1mm (HAIRLINE) TO 1.0cm. AV. THICKNESS 3mm. ANGLE OF																
				VEINING TO C.A. 35°, 30°, 80°.																
				FEATURES IRREGULAR PLANAR SURFACES, [illegible]																
				ALONG FRACTURE PLANES. [illegible] AROUND FRACTURE																
				PLANES, ½ cm TO 1cm WIDE, LIGHT [illegible] RED TO BROWN																
				[illegible] FRACTURE PLANES TO C.A. 45°, 35°																
				WEAK CARBONATE ALT'N WITH HARDNESS OF 4-4½.																
8.65	13.69	5.04	QCZN	QUARTZ CARBONATE ZONE - LIGHT GREY GREEN TO											D-01653	8.65	9.85	1.20	0.007	0.14
				DARK GREY COUNTRY ROCK, APHANITIC, MODERATE											D-01654	9.85	11.20	1.35	0.009	0.44
				TO STRONG SILICIFICATION WITH MODERATE TO WEAK											D-01655	11.20	12.56	1.36	0.003	0.07
				CARBONATE ALT'N. KNOTS OF CARBONATE/QUARTZ [illegible]											D-01656	12.56	13.69	1.13	0.003	0.05
				RANGE IN SIZE 3cm TO 1[illegible]cm.																

INTERVAL FROM	INTERVAL TO	RECOV	ROCK UNIT	DESCRIPTION	ALTERATION QV	ALTERATION	ALTERATION	ALTERATION	ALTERATION	SULPHIDES	SULPHIDES	SULPHIDES	SULPHIDES	SULPHIDES	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS	ASSAYS
13.69	17.98	4.29	QCBX	QUARTZ CALCITE BRECCIA - MILKY WHITE QUARTZ	[illegible]	15-20	–	–	30	10	Tr	[illegible]	Tr-2	–						
				CARBONATE MATRIX. LIGHT GREY [illegible] ROCK FRAGS.											D-01657	13.69	15.41	1.72	0.009	0.18
				[illegible] ALTERED CLASTS [illegible]											D-01658	15.41	16.68	1.27	0.013	0.24
				RANGE IN SIZE FROM 1mm TO 3mm [illegible] ROUNDED TO SUBANGULAR											D-01659	16.68	17.98	1.30	0.005	0.17
				16 W.L.P. FOR COUNTRY ROCK.																
				COUNTRY ROCK FRAGMENTS THAT MAKE UP BRECCIA																
				RANGE IN SIZE FROM 1/2 cm TO 5.0 cm. SUBROUNDED																
				TO ANGULAR. MATRIX SUPPORTED. MINERALIZATION																
				F.G. DISS PYRITE, MINOR DISS PYRITE ALONG CLAST EDGES. SPARSE																
				TETRAHEDRITE [illegible]. FAIR MINERALIZATION. POTENTIAL																
				ATP. [illegible] - DISSOLVED $CaCO_3$ [illegible]																
				DRUSY QUARTZ CRYSTALS. GRADATIONAL CONTACT.																
17.98	21.30	3.32	QCSW	QUARTZ CALCITE STOCKWORK - LIGHT GREY GREEN COUNTRY	20	15-20	–	–	20	10	–	–	Tr-1		D-01660	17.98	20.17	2.19	0.009	0.17
				ROCK, F.G. WITH DISS KNOTS OF PYRITE. MILKY WHITE											D-01661	20.17	21.30	1.13	0.013	0.25
				QUARTZ/CARB VEINS RANGING IN THICKNESS FROM 1/2mm																
				(HAIRLINE) TO 2 1/2 cm. AVG THICKNESS 0.8cm																
				MINERALIZATION. F.G. DISS. PYRITE WITH OCCAS																
				PYRITE KNOTS. SPARSE PYRITE GRAINS ALONG VEINS																
				VEIN EDGES.																
				$CaCO_3$ VEIN DISSOLVED LEAVING A VUG. VUG																
				1.5cm THICK WITH GOOD QUARTZ XTAL GROWTH. ANGLE																
				OF VEIN TO C.A. 35, 55, 50°, 80°. GRADATIONAL																
				CONTACT.																
21.30	25.86	4.56	QCBX	QUARTZ CALCITE BRECCIA - MILKY WHITE QUARTZ/	[illegible] 35	15	–	–	25	10	–	–	Tr-1		D-01662	21.30	23.23	1.93	0.010	0.28
				CALCITE MATRIX. LIGHT GREY FINE GRAINED COUNTRY ROCK											D-01663	23.23	24.30	1.07	0.028	0.23
				FRAGMENTS. MATRIX SUPPORTED. SUBROUNDED TO ANGULAR											D-01664	24.30	25.86	1.56	0.010	0.12
				SIZE OF FRAGMENTS RANGES 1/2 cm TO 35 cm. AVG																
				SIZE 5.0 cm. MINERALIZATION. F.G. DISS PYRITE WITH																
				SPARSE TETRAHEDRITE GRAINS. POOR MINERALIZATION ATP.																
25.86	32.34	6.48	QCSW	QUARTZ CALCITE STOCKWORK - LIGHT TO DARK GREY	15	10	–	–	30	5-10	–	–	Tr-1	–	D-01665	25.86	26.97	1.11	0.010	0.20
				COUNTRY ROCK WITH CLAY GOUGE. MILKY WHITE QUARTZ/CALCITE											D-01666	26.97	27.72	0.75	0.010	0.16
				VEINS RANGING IN THICKNESS 1/2mm TO 35cm AVG											D-01667	27.72	28.61	0.89	0.022	0.07
				1.5cm. ANGLE OF QUARTZ/CARB VEINING TO											D-01668	28.61	30.18	1.57	0.003	0.08
				C.A. 35°, 50, 0-10°, 80°-85°. SOME [illegible]											D-01669	30.18	31.42	1.24	0.001	0.05
				MINERALIZATION. F.G. DISS PYRITE WITH OCCAS											D-01670	31.42	32.34	0.92	0.023	[illegible].03
				PYRITE IN KNOTS. WITH LOCALIZED ZONE OF TETRAHEDRITE																
				[illegible] AROUND [illegible]. FAIR MINERAL ATP.																

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	ASSAYS Ag oz/t
32.34	41.78	9.44	CTVN	CALCITE VEIN - VEINING 80% CaCO3 WITH OCCAS	—	—	—	—	80	5			Tr		D-01671	32.34	33.19	0.85	0.003	0.09
				LOCALIZED SECTIONS OF WALL ROCK FRAGS. SPARSE CONCENTRATION											D-01672	33.19	34.57	1.38	0.002	[illegible]
				FRAGS WALL ROCK FRAGMENT RANGES FROM ½cm TO 5cm											D-01673	34.57	35.00	0.43	0.004	[illegible]
				SUBROUNDED TO ANGULAR. OCCAS PYRITE XNOTS, SPARSE											D-01674	35.00	36.00	1.00	0.049	[illegible]
				TETRAHEDRITE GRAINS											D-01675	36.00	36.67	0.67	0.007	[illegible]
															D-01676	36.67	38.50	1.83	0.001	0.05
			CTBX	(34.57-35.00) - 0.43 - CALCITE BRECCIA - LIGHT GREY [illegible]	Tr-1	-	-	-	MATRIX 60-65	5-10	-	-	Tr	—	D-01677	38.50	39.67	1.17	0.004	0.01
				CARBONATE ALTRD, [illegible]: 4, [illegible] MATRIX											D-01678	39.67	40.51	0.84	0.001	0.01
				SUPPORTED, FRAGS IN SIZE FROM ½cm TO 4cm AVG SIZE											D-01679	40.51	41.78	1.27	0.026	0.10
				2.0cm. POOR MINERALIZATION.																
			CTBX	(36.00-36.67) 0.67 (AS ABOVE)																
41.78	45.80	4.02	QZBX	QUARTZ CALCITE BRECCIA - LIGHT GREY F.G. COUNTRY	MATRIX 25	—	-	-	MATRIX 30-35	15-20	-	-	Tr	-	D-01680	41.78	43.34	1.56	0.009	0.41
				ROCK FRAGMENTS, MATRIX SUPPORTED, SUBROUNDED TO											D-01681	43.34	44.47	1.13	0.009	0.15
				ANGULAR FRAGMENTS RANGING IN SIZE FROM ½cm TO 15cm											D-01682	44.47	45.80	1.33	0.011	0.17
				AVG SIZE 2.5cm. MINERALIZATION: DISS PYRITE GRAINS																
				≤1mm IN SIZE. TAKES UP 10-20% WRP. IN COUNTRY																
				ROCK FRAGS.																
45.80	69.78	23.98	CTVN	CALCITE VEINING - MILKY WHITE CALCITE VEINING	5	—	—	—	90%	1-3	-	Tr	Tr-3	-	D-01683	45.80	47.09	1.29	0.000	0.02
				90%. OCCAS FRAGMENTS OF WALL ROCK											D-01684	47.09	48.46	1.37	0.005	0.03
				SUBROUNDED TO ANGULAR. RANGING IN SIZE											D-01685	48.46	49.46	1.00	0.003	0.01
				FROM ½cm TO 12.0cm. AVG. 3cm. MINERALIZATION											D-01686	49.46	50.43	0.97	0.004	0.07
				F.G. DISS PYRITE WITH SPARSE TETRAHEDRITE GRAINS.											D-01687	50.43	51.64	1.21	0.059	1.58
				(54.74-55.10) - 0.36 - GOOD TO EXCELLENT MINERALIZATION											D-01688	51.64	53.02	1.38	0.005	0.01
				MASSIVE PYRITE, TETRAHEDRITE, GALENA.											D-01689	53.02	53.87	0.85	0.003	0.07
				(57.60-58.78) - GOOD MINERALIZATION; WITH SMALL											D-01690	53.87	54.74	0.87	0.014	0.63
				TETRAHEDRITE GRAINS MODERATELY DISS THROUGHOUT											D-01691	54.74	55.10	0.36	0.070	7.42
				WALL ROCK											D-01692	55.10	55.98	0.88	0.122	0.23
															D-01693	55.98	56.09	0.41	0.02[illegible]	2.39
															D-01694	56.09	[illegible]	[illegible]	0.005	[illegible]

Sheet 4 of 12

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	ALTERATION [illegible]	ALTERATION [illegible]	ALTERATION [illegible]	ALTERATION [illegible]	SULPHIDES Py	SULPHIDES [illegible]	SULPHIDES [illegible]	SULPHIDES [illegible]	SULPHIDES [illegible]	SAMPLE No.	From	To	Width	ASSAYS Au oz/t	ASSAYS Ag oz/t
48.80	71.15	23.98	CTVN	CALCITE VEIN - (CONT'D FROM LAST PAGE) -	5	-	-	-	85%	10	-	Tr	Tr-1	-						
				INTERSTITIAL QUARTZ INCREASES AS MOVE DOWN											D-01695	57.60	58.78	1.18	0.029	4.91
				HOLE. ANGLE OF BOTTOM CONTACT WITH C.A. 40°											D-01696	58.78	59.49	0.71	0.018	0.25
															D-01697	59.49	60.66	1.17	0.006	0.04
															D-01698	60.66	61.86	1.20	0.026	0.20
															D-01699	61.86	62.92	1.06	0.006	0.17
															D-01700	62.92	63.90	0.98	0.014	0.89
															D-01701	63.90	64.58	0.68	0.005	0.21
															D-01702	64.58	65.54	0.96	0.012	0.44
															D-01703	65.54	66.75	1.21	0.010	0.64
71.15	73.67	2.52	QCSW	QUARTZ CALCITE STOCKWORK. - LIGHT GREY TO	15-20	10	-	-	15-25	10-15	-	-	1-2	-	D-01704	66.75	68.30	1.55	0.010	0.13
				DARK GREY COUNTRY ROCK. DIFFERENCES IN COLOUR DUE											D-01705	68.30	69.78	1.48	0.067	0.70
				TO [illegible] [illegible] DIFFERENCES IN ROCK. CALCITE [illegible]											D-01706	69.78	71.15	1.37	0.186	0.29
				VEIN ARE WHITE (BARREN) ANKERITE VEINING VEINING																
				RANGES IN THICKNESS < 1mm ([illegible]) TO 2.0cm											D-01707	71.15	72.70	1.55	0.004	0.02
				AVG THICKNESS 1.0cm. ANGLE OF VEINING TO C.A. 30°, 70, 55°											D-01708	72.70	73.67	0.97	0.006	0.11
				MINERALIZATION - F.G. DISS. PYRITE THROUGHOUT, [illegible]																
				PYRITE VEINS, SPARSE [illegible] GRAINS ALONG																
				VEIN EDGE AND VEIN CENTRES.																
73.67	75.33	1.66	QCBX	QUARTZ CALCITE BRECCIA - MILKY WHITE QUARTZ/CALCITE	35	10	-	-	10	10-15	-	-	Tr-1	-	D-01709	73.67	75.33	1.66	0.006	0.29
				MATRIX. CLASTS [illegible] SUPPORTED, SUBROUNDED TO																
				ANGULAR. CLASTS RANGE IN SIZE FROM ½cm TO [illegible]cm																
				[illegible] SIZE [illegible] MINERALIZATION - F.G. DISS. PYRITE WITH																
				[illegible] [illegible] CLASTS. ANGLE OF QCBX																
				TOP CONTACT TO C.A. 34°, SHARP CONTACT AND																

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE	FROM	TO	WIDTH	ASSAYS	
75.33	80.69	5.36	QCBN	QUARTZ CALCITE ZONE - LIGHT TO DARK GREEN	15-20	10-?	–	–	75	10	–	–	TT	–	D-01710	75.33	75.90	0.57	0.005	0.07
				BANDED COUNTRY ROCK. LIGHT/DARK BANDING DUE TO											D-01711	75.90	76.69	0.79	[illegible]	1.26
				DIFFERENCES IN PYRITE CONCENTRATION - OCCASIONAL											D-01712	76.69	78.47	1.78	0.009	0.09
				BANDING NO SHARP CONTACT, ANGLE OF BANDING											D-01713	78.47	79.56	1.09	0.027	0.08
				TO C.A. 47°											D-01714	79.56	80.69	1.13	0.011	0.70
				LATE STAGE CARBONATE [illegible] VEINS																
				≤2mm IN THICKNESS WITH QUARTZ/CARBONATE																
				SWEATS THROUGHOUT. CARBONATE ALTN IS WEAK WITH																
				WEAK SILICIFICATION. MODERATE CLAY ALTN.																
				ANGLE OF VEINING TO C.A. 35°, 26°. THICKNESS																
				OF VEINS [illegible] TO 1.5cm. AVG 1.5cm																
				(76.[illegible] 76.18) - [illegible] CORE, [illegible] ALT																
80.69	81.47	0.78	QTSW	QUARTZ STOCKWORK - LIGHT WITH DARK GREY [illegible]																
				BANDING, MILKY WHITE QUARTZ VEINING RANGING FROM	15-20	–	–	–	Tr-2	5	Tr-1	Tr-1	1-3	[illegible]	D-01715	80.69	81.47	0.78	0.025	0.93
				HAIRLINE TO 2.0cm. AVG THICKNESS 0.8cm.																
				GOOD TO EXCELLENT MINERALIZATION WITH MASSIVE																
				TETRAHEDRITE, GALENA, PYRITE, SMALL PINHEAD																
				SIZE FLAKES OF GOLD, [illegible] CONTACT WITH																
				DACITE LAPILLI TUFF																
81.47	82.30	0.83	ANLT	ANDESITE LAPILLI TUFF - LIGHT GREY, HARDNESS 5, FINE	±5	Tr-1	–	–	5	10-15	–	–	Tr-1	–	D-01716	81.47	82.30	0.83	0.010	0.03
				[illegible] FRAGMENTS, FRAGMENTS RANGE IN SIZE																
				[illegible] 2mm. [illegible] OF CLAY [illegible] AN ANGLE OF																
				45°. [illegible] DISS PYRITE.																
82.30	83.27	0.97	QTBX	QUARTZ BRECCIA - EXCELLENT MINERALIZATION - MILKY	MATRIX 45-50	–	–	–	10	10-15	1-2	Tr-1	3-4	[illegible]	D-01717	82.30	83.27	0.97	0.174	2.89
				WHITE QUARTZ MATRIX, DARK GREY CLASTS, MATRIX SUPPORTED																
				SIZE OF FRAGS RANGE FROM ½cm TO 2cm AVG																
				1.0cm. MASSIVE TETRAHEDRITE, GALENA, PYRITE																

[illegible] Sheet 6 of 12

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Chl	ALTERATION [illegible]	ALTERATION [illegible]	ALTERATION Ka	ALTERATION Ca	SULPHIDES Py	SULPHIDES [illegible]	SULPHIDES [illegible]	SULPHIDES Avg	SULPHIDES Pyrr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS	ASSAYS
83.27	85.14	1.87	QCSW	QUARTZ-CALCITE STOCKWORK - LIGHT GREEN TO GREY	15-20	15	–	–	10	5-10	–	–	Tr-1		D-01718	83.27	85.14	1.87	0.017	0.59
				FINE GRAINED [illegible] E.G. DISS PYRITE THROUGHOUT																
				QUARTZ-CARBONATE VEINING, THICKNESS RANGES																
				FROM 1mm TO 2.0 cm, AVG THICKNESS 0.5cm																
				ANGLE OF VEINING WITH C.A. 35-45°																
85.14	86.07	0.93	QCBX	QUARTZ-CALCITE BRECCIA - LIGHT TO DARK GREY COUNTRY	55-60	10	–	–	10-15						D-01719	85.14	86.07	0.93	0.185	0.89
				ROCK FRAGMENTS, CLASTS ARE FINE GRAINED, WITH DISS.																
				PYRITE WITH OCAS PYRITE KNOTS. CLASTS RANGE																
				IN SIZE FROM ½ cm TO 6.0 cm. MATRIX SUPPORTED																
				SUBROUNDED TO ANGULAR WITH OCAS [illegible]																
				GRAINS ALONG CLAST EDGE AND MATRIX CENTRES.																
86.07	89.13	3.06	QCSW	QUARTZ-CALCITE STOCKWORK (AS ABOVE) - LIGHT GREY	20-25	5-10	–	–	15	5-10	–	–	Tr-1	–	D-01720	86.07	87.48	1.41	0.026	0.40
				GREEN, F.G. [illegible] WHITE QUARTZ CALCITE VEINING											D-01721	87.48	89.13	1.65	0.016	0.21
				[illegible] THICKNESS 1mm TO 1.5cm AVG 0.5cm.																
				ANGLE OF VEINING TO C.A. IS 0-15°; 35-45°																
				WITH OCAS QUARTZ SWEATS E.G. DISS PYRITE WITH																
				OCAS 1-2mm WIDE PYRITE STRINGERS																
[illegible].13	105.58	16.45	QTZN	QUARTZ CALCITE ZONE - LIGHT TO DARK GREY	5-0	10	–	–	15	10-15	–	–	Tr-1	–	D-01722	89.13	90.50	1.37	0.011	0.09
				WITH OCAS [illegible]											D-01723	90.50	91.61	1.11	0.006	0.05
				[illegible] THICKNESS FROM 1-2mm [illegible]											D-01724	91.61	92.66	1.05	0.005	0.03
				[illegible] STRINGERS, IRREGULAR QUARTZ VEIN											D-01725	92.66	94.18	1.52	0.003	0.01
				SWEATS THICKNESS 1-4mm WIDE, ANGLE OF QUARTZ											D-01726	94.18	95.39	1.21	0.001	0.01
				[illegible] C.A 25-40°, 20° OCAS QUARTZ CARBONATE											D-01727	95.39	97.10	1.71	0.009	0.01
				SWEATS, PROTOLITH ANDESITE LAPILLI TUFF											D-01728	97.10	97.94	0.84	0.001	0.01
															D-01729	97.94	99.24	1.30	0.004	0.04
			QCSW	(101.76 - 102.49) - 0.73 - STRONGLY BROKEN [illegible]	15-25	15	–	–	10	10	–	–	Tr-2		D-01730	99.24	100.24	1.00	0.001	0.04
				HEAVILY CLAY ALTERED, ANGLE OF SHEAR ZONE											D-01731	100.24	101.76	1.52	0.024	0.22
				TO C.A. 85-90°. QUARTZ CARBONATE VEINING											D-01732	101.76	102.49	0.73	0.333	1.62
				(AS ABOVE) MINERALIZATION E.G. PYRITE [illegible]											D-01733	102.49	103.66	1.17	0.012	0.05
				[illegible] GRAINS THROUGHOUT											D-01734	103.66	104.52	0.86	0.01[illegible]	[illegible].14
															D-01735	104.52	105.60	1.06	0.039	[illegible]5

INTERVAL FROM	TO	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE NO.	FROM	TO	LENGTH	ASSAYS	
105.58	110.69	5.11	QCVN	QUARTZ-CALCITE VEIN - MILKY WHITE QUARTZ CALCITE VEINING WITH [illegible] COUNTRY ROCK FRAGMENTS. F.G. DISS PYRITE WITH SPARSE TETRAHEDRITE GRAINS THROUGHOUT. MINERALIZATION POOR TO MODERATE. ANGLE OF CONTACT LOWER WITH STOCKWORK 15-35°	85				[illegible]				[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
															[illegible]	[illegible]	110.61	[illegible]	[illegible]	[illegible]
															[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
															D-01739	108.17	109.42	1.25	1.019	7.26
															D-01740	109.42	110.69	1.27	1.195	9.14
110.69	112.30	1.61	QCSW	QUARTZ CALCITE STOCKWORK - LIGHT GREY FINE GRAINED COUNTRY ROCK. MILKY WHITE QUARTZ CARBONATE VEINING RANGES IN SIZE FROM <1mm (HAIRLINE) CARBONATE TENSION VEINS TO 1/2cm. AVG. 1/2cm. ANGLE OF VEINING TO C.A. 30°, 5-10°. FAULT BOUNDED WITH QUARTZ VEIN; GOUGE ZONE 30° ANGLE TO C.A.	15-20	10	-	-	10	10	-	-	Tr-1	-	D-01741	110.69	112.30	1.61	0.115	3.40
112.30	113.10 (10cm core lost)	0.70	QTVN	QUARTZ VEIN - MILKY WHITE QUARTZ VEIN AMONGST COUNTRY ROCK FRAGMENTS. WITH SPARSE TETRAHEDRITE GRAINS. F.G. DISS PYRITE IN COUNTRY ROCK. FRAGS RANGE IN SIZE 3mm TO 1.0cm. MATRIX SUPPORTED - 3% WRP. (112.92 - 113.10) - STRONG GOUGE ZONE. FRAGS OF CORE RANGE IN SIZE FROM 1/2cm TO 3cm. SUBROUNDED TO ANGULAR. FAULT BOUND LOWER CONTACT OF QTZ VEIN UNIT.	90	-	-	-	<5	5	-	Tr	Tr	-	D-01742	112.30	113.10	0.80	0.022	0.39
113.10	114.89	1.79	QTBX	QUARTZ BRECCIA - MILKY WHITE QUARTZ MATRIX LIGHT TO DARK GREY COUNTRY ROCK FRAGS. MATRIX SUPPORTED. SUBANGULAR TO SUBROUNDED. RANGE IN SIZE FROM 3mm TO 10cm. AVG SIZE 2.0cm. ANGLE OF CONTACT TO QUARTZ STOCKWORK IS IRREGULAR [illegible] MINERALIZATION - F.G. DISS PYRITE WITH GRAINS [illegible] TETRAHEDRITE [illegible]	85-90	15	-	-	10	10	-	-	Tr-1	-	D-01743	113.10	114.89	1.79	0.020	0.36

INTERVAL		RECOV	ROCK	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE				ASSAYS	
114.89	[illegible]	12.97	[illegible]	QUARTZ STOCKWORK [illegible]	25-30	15-20	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				[illegible] TO STOCKWORK [illegible]											D-01745	115.83	[illegible]	[illegible]	[illegible]	[illegible]
				MILKY WHITE QUARTZ VEINING - [illegible]											[illegible]	116.77	[illegible]	0.96	[illegible]	[illegible]
				THICKNESS ≤1mm TO 3cm WIDE AVG THICKNESS											[illegible]	117.55	118.32	0.77	0.215	15.75
				1-2cm, ANGLE OF QUARTZ VEINING TO CA											D-01748	118.32	119.06	0.74	0.010	0.44
				35°, 45°, 20°. MINERALIZATION F.G. DISS PYRITE											D-01749	119.06	120.51	1.45	0.020	0.22
				WITH MASSIVE TETRAHEDRITE [illegible] FILL [illegible]											D-01750	120.51	121.62	1.11	0.031	0.71
				CONTACT WITH QTZ BRX UNIT.											D-01751	121.62	123.17	1.55	0.085	0.45
				(116.79-117.55) - FAIR TO GOOD MINERALIZATION											D-01752	123.17	125.13	1.96	0.014	0.60
				MASSIVE TETRA. GRAINS. WITH MASSIVE PYRITE.											D-01753	125.13	126.26	1.13	0.020	1.75
															D-01754	126.26	127.71	1.45	0.021	1.28
				(127.71-127.86 m) - 0.15 - GOOD TO EXCELLENT											D-01755	127.71	127.86	0.15	0.405	27.40
				MASSIVE TETRAHEDRITE, MINOR SPHALERITE, MASSIVE PYRITE																
127.86	137.13	9.27	QTBX	QUARTZ BRECCIA - LIGHT TO DARK GREY Q.G.	45-50	15	-	-	5-10	10-15	Tr-1	Tr	1-3	-						
				COUNTRY ROCK FRAGMENTS MATRIX MILKY WHITE											D-01756	127.86	128.92	1.06	0.029	7.97
				QUARTZ. FRAGS ARE MATRIX SUPPORTED, SUBANGULAR											D-01757	128.92	129.60	0.68	0.015	3.25
				TO ANGULAR. FRAGS RANGE IN SIZE 1/2cm TO 11cm											D-01758	129.60	130.76	1.16	0.034	0.56
				AVG SIZE 2-3cm. OCCAS CELL "GHOST" FRAGS FROM											D-01759	130.76	132.40	1.64	0.098	1.43
				STRONG [illegible]. MINERALIZATION: F.G. DISS PYRITE											D-01760	132.40	133.80	1.40	0.029	0.74
				WITH DISS TETRA GRAINS AND MINOR SPHALERITE											D-01761	133.80	135.01	1.21	0.007	0.75
				KNOTS. OCCAS LOCALIZED VUGS.											D-01762	135.01	136.37	1.36	0.070	19.49
															D-01763	136.37	137.13	0.76	0.005	0.27
				(135.01-136.37) 1.36 - GOOD TO EXCELLENT MINERALIZATION																
				TETRAHEDRITE, MINOR SPHALERITE, MASSIVE PYRITE																
				±GA. MAY HAVE GOLD.																
137.13	138.09	0.96	QTVN	QUARTZ VEIN - MILKY WHITE [illegible]	80	5	-	-	Tr-5	5	-	-	Tr-4							
				OCCAS WALL ROCK FRAGMENTS, RANGING IN SIZE FROM											D-01764	137.13	138.09	0.96	0.003	0.22
				1cm TO 4cm. MINERALIZATION: F.G. DISS PYRITE [illegible]																
				[illegible] 1-2mm TETRAHEDRITE GRAINS. MATRIX SUPPORTED																
				FRAGS																

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE	FROM	TO	WIDTH	ASSAYS	
138.09	142.78	4.69	QTSW	QUARTZ STOCKWORK – LIGHT TO DARK GREY COUNTRY	2-10	15	–	–	10	2-5	–	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				ROCK – DARK GREY BANDING AND PATCHES DUE TO											[illegible]	139.??	140.24	0.??	0.0??	?.06
				PYRITE CONCENTRATIONS. MILKY WHITE QUARTZ VEINING											[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.72
				RANGING IN THICKNESS FROM <1mm TO 3.0cm. AVG											D-01?68	140.??	142.15	1.36	0.009	0.78
				THICKNESS 1.0cm. ANGLE OF QTZ VEINS TO C.A. 60-											D-01?69	142.15	142.78	0.63	0.004	0.11
				65°																
142.78	146.12	3.34	QTBX	QUARTZ BRECCIA – MILKY WHITE QUARTZ MATRIX	50-60	5-15	–	–	5-10	10	Tr	Tr	1-2	–	D-01770	142.78	143.45	0.67	0.002	0.17
				WITH LIGHT TO DARK GREY ELONGATED WALL											D-01771	143.45	145.00	1.55	0.010	2.78
				ROCK FRAGMENTS. FRAGS RANGE IN SIZE FROM											D-01772	145.00	146.12	1.12	0.001	0.27
				1mm TO 4.0 cm. AVG 1.0cm. ALIGNMENT OF																
				FRAGMENTS GIVES A FABRIC WITH AN ANGLE TO																
				C.A. OF 65°. MINERALIZATION: FAIR TO GOOD																
				WITH F.G. DISS PYRITE WITH TETRAHEDRITE, FRACTURE																
				FILL. OCCAS $CaCO_3$ VEINLETS.																
[illegible]12	149.53	3.41	HELT	HETEROLITHIC TUFF – LIGHT GREEN PORPHYRITE	5-10	5	–	–	5	15-20	–	–	Tr-1	–	D-01773	146.12	147.47	1.35	0.041	0.28
				ALTERED BANDING. BANDING RANGES IN THICKNESS											D-01774	147.47	148.36	0.89	0.002	0.05
				1mm TO 1.0cm. ANGLE OF BANDS TO C.A. IS 55°											D-01775	148.36	149.53	1.17	0.010	0.30
				MILKY WHITE QUARTZ VEINING, SAME RANGING																
				IN THICKNESS: HAIRLINE TO 4mm, AVG 2mm. AVG																
				ANGLE OF VEINING TO C.A. IS 50-55° MINERALIZATION																
				OCCAS PYRITE STRINGERS WITH F.G. DISS. PYRITE THROUGHOUT.																
				LATE STAGE $CaCO_3$ TENSION GASHES. STRONGLY																
				SHEARED HELT TO ... BANDING																

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	From	To	Length	ASSAYS	
149.53	151.55	2.02	QTSW	QUARTZ STOCKWORK: LIGHT TO DARK GREY MOTTLED COUNTRY ROCK [illegible] WITH ACAIS PYRITE STRINGERS / MILKY WHITE QTZ VEINS RANGING IN THICKNESS 5mm TO 5cm. QTZ VEINS HAVE INTERSTITIAL $CaCO_3$. MINERALIZATION: F.G. DISS PYRITE WITH SPARSE TETRA GRAINS ~1-2mm IN SIZE. [illegible] TETRA ENVELOPE ALONG VEIN EDGE.	15-[illegible]	10	-	-	5-10	10	-	-	1-2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
151.55	153.27	1.72m	QTBX	QUARTZ BRECCIA: LIGHT TO MODERATE GREY COUNTRY ROCK CLASTS. MATRIX SUPPORTED SUBROUNDED TO SUBANGULAR CLASTS RANGING IN SIZE FROM 3mm TO 12cm. AVG 4.5cm. MINERALIZATION: PYRITE - F.G. DISS AS WELL AS ACAIS PYRITE STRINGERS ALONG CLAST EDGES. NO TETRA OBSERVABLE.	MATRIX 45-55	10	-	-	5-10	10	-	-	Tr-1	-	D-01778	151.55	153.27	1.72m	0.003	0.12
153.27	156.98	3.71	QTZW	QUARTZ ZONE - STRONGLY SILICIFIED WITH SOME ACAIS QUARTZ STRINGERS WITH QUARTZ [illegible] THROUGHOUT. SPARSE QUARTZ VEINING [illegible] 5mm TO 12cm. AVG 0.3cm. LATE STAGE $CaCO_3$ HAIRLINE FRACTURE GASHES. ANGLE OF GASHES TO C.A. 45°. MINERALIZATION: PYRITE STRINGERS WITH F.G. DISS PYRITE. SPARSE LOCALIZED TETRAHEDRITE GRAINS.	5-10	20-15	-	-	10	5-10	-	-	Tr-1	-	D-01779	153.27	154.30	1.03	0.005	0.40
															D-01780	154.30	156.07	1.77	0.003	0.15
															D-01781	156.07	156.98	0.91	0.002	[illegible].05
156.98	158.19	1.21	QTBX	QUARTZ BRECCIA - MILKY WHITE QUARTZ MATRIX. (AS ABOVE.	MATRIX 45-55	10	-	-	5-10	10	-	-	Tr	-	D-01782	156.98	158.19	1.21	0.004	0.23

INTERVAL From	To	RECOV	ROCK	DESCRIPTION	ALTERATION	SULPHIDES	SAMPLE	From	To	Width	ASSAYS	
158.19	165.85 (miss [illegible])	6.10	HFCT	[illegible] TUFF - STRONGLY SHEARED [illegible]	Tr [illegible]	[illegible]	[illegible]					
				[illegible]								
				[illegible]								
				STRINGERS TO 2.0cm. [illegible] STRINGERS CUT PARALLEL								
				TO SHEARING. ANGLE OF SHEARING TO C.A. 40°		min. 1.5cm	D-01784	163.47	165.85	2.38	0.003	0.29
				CARBONATE STRINGERS RANGING FROM [illegible] TO 1cm								
				MINERALIZATION PYRITE CAUGHT UP IN SHEARING, [illegible]								
				RECRYSTALLIZED PYRITE KNOTS 1mm TO 1cm ACROSS								
				STRONGLY CHERT ALTERED WITH MODERATE								
				CARBONATE ALT^N, PHYLLITE [illegible] RUNS [illegible]								
				FACES. GRADATIONAL CONTACT.								
				(164.29 - 165.85) - STRONGLY BROKEN CORE, HEAVY								
				[illegible] ALTERED, FRAGS OF CORE RANGE IN SIZE [illegible]								
				TO 3.0cm. SUBROUNDED TO SUBANGULAR. NO SLICKS								
				ANGLE OF FAULT TO CA APPROX 85° [illegible]								
165.85	176.48 (miss 25cm core)	10.38	QTZN	QUARTZ ZONE - LIGHT TO DARK GREY COUNTRY	10 · 25 · – · – · 10	10 · – · – · Tr · [illegible]	D-01785	165.85	167.71	1.86	0.005	0.07
				ROCK. [illegible] STRONGLY [illegible] SILICIFICATION [illegible]			D-01786	167.71	169.21	1.50	0.007	0.18
				TO [illegible] [illegible] [illegible]			D-01787	169.21	170.38	1.17	0.006	0.20
				QUARTZ. QUARTZ STRINGERS RANGE IN THICKNESS ±1mm			D-01788	170.38	172.05	1.67	0.005	0.13
				TO 5mm AVG 2mm. ANGLE OF VEINING TO C.A.			D-01789	172.05	173.43	1.38	0.004	[illegible].11
				35°, 40°, 55°.			D-01790	173.43	174.27	0.84	0.004	0.14
							D-01791	174.27	175.11	0.84	0.049	0.93
				(167.35 - 167.71) - FAULT ZONE, BROKEN CORE			D-01792	175.11	176.48	1.37	0.007	0.14
				RANGE IN SIZE FROM ½cm TO [illegible]								
				CLAY ALT^N. NO SLICKS. ANGLE OF FAULT ZONE								
				TO C.A. IS 90°.								
			QTBX	(170.38 - 172.05) - LIGHT GREY [illegible] COUNTRY	[illegible]							
				ROCK FRAGS WITH SIZE RANGING [illegible] TO [illegible]	26·35 · 15 · – · – · 10	10 · – · – · Tr-2 · –						
				AVG 1.0cm. POOR MIN. [illegible]								
				PYRITE KNOTS.								

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
176.48	182.18	5.70	HLT (ANLT)	HETEROLITHIC TUFF - VARIETY OF DIFFERENT LITHIC FRAGMENTS, COLOUR OF FRAGS BEIGE-WHITE FG TO WHITE FG FRAGS, DARK GRN FRAGS ... FRAGS MATRIX SUPPORTED TO CLAST SUPPORTED, LOCALLY SUBROUNDED TO ANGULAR RANGING IN SIZE FROM <1mm TO 4.5 cm. ALIGNMENT OF LITHIC FRAGS HAS AN ANGLE OF 32°. DISS $CaCO_3$ MESH VEINS 1-3mm WIDE ANGLE OF 30-35° TO C.A. MODERATE TO STRONG CLAY ALTERATION, WELL GRADED. HOLE ANDESITE LAPILLI TUFF. CONTACT (LOWER) WITH ANTF HAS ANGLE OF 45° TO C.A.	Tr	<5	[illegible]	[illegible]	5	10	—	[illegible]	[illegible]	[illegible]	D-0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
182.18	182.57	0.39	ANTF	ANDESITE TUFF - V.F. LIGHT GREEN CHLORITIC ROCK, DISS PYRITE KNOTS WITH DISS PYRITE, LATE STAGE $CaCO_3$ TENSION GASHES. HARDNESS 3½. MODERATE CLAY ALTERATION. LIGHT/DARK GREEN BANDING, COULD BE BEDDING. ANGLE TO C.A. 45°. BANDING GRADATIONAL, WITH DISS $CaCO_3$ STRINGERS ALIGNED // TO BEDDING DIRECTION.	Tr	—	—	—	10-15	5	—	—	—	—		NO SAMPLING				

182.57m EOH

(599 FEET) EOH.

NEWHAWK GOLD MINES
Drill Hole Record

COLLAR	INCLINATION	BEARING	PROPERTY	LENGTH	HOLE No.
	[illegible]	[illegible]	LOCATION [illegible]	HOR. COMP. / VERT. COMP. [illegible]	Sheet [illegible]
			ELEVATION [illegible]	BEARING [illegible]	LOGGED BY [illegible]
			COORDINATES 90W / S / E	BEGAN 24/10/8? COMPLETED 25/10/8?	SAMPLED BY [illegible]
				CORE SIZE NQ RECOVERY 95%	

INTERVAL From	INTERVAL To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Cd	SULPHIDES Py	Sp	Ga	Arg	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
0	2.74	0	CASG	CASING NO RECOVERY																
2.74	8.40	5.93	QTZN	QUARTZ ZONE MEDIUM GREY SILICI-	5	25	3		2	5			T		D-01794	2.74	4.33	1.59	0.012	0.12
			ANTE	FIED AND BLEACHED FINE GRAINED									in VN		D-01795	4.33	6.19	1.86	0.004	0.06
				FOLIATED ASH FALL TUFF, FOLIATION											D-01796	6.19	8.44	2.25	0.004	0.10
				50° TO C.A. HARDNESS 5.																
				RANDOM, RATHER EVENLY SPACED QUARTZ																
				VEINS 0.5-2cm THICK SUBPARALLELING																
				FOLIATION. TRACE INTERSTITIAL LATE																
				CALCITE. TRACE TETRAHEDRITE ASSO-																
				CIATED WITH PYRITIC WHITE QUARTZ																
				VEINS.																
				DARK BROWN OXIDIZED FRACTURES																
				COMMON THROUGHOUT.																
				-2.74-3.00- 30% CORE LOSS.																
				VEIN CONTACT 55° TO C.A.																
8.40	21.27	12.87	QCBX	QUARTZ CALCITE BRECCIA ZONE - MASSIVE	60	15	2		10	3	T in QV	T in QV	T in QV		D-01797	8.44	10.11	1.67	0.039	0.79
				WHITE QUARTZ WITH LATER WHITE AND											D-01798	10.11	11.58	1.47	0.015	0.37
				PALE PINK CALCITE BRECCIA VEINING											D-01799	11.58	13.39	1.81	0.034	0.82
				NUMEROUS ANGULAR AND RAGGED WALLROCK FRAGS											D-01800	13.39	14.98	1.59	0.017	0.64
				AND ZONES. FABRIC ~ 50°-60° TO C.A.											D-01801	14.98	17.68	2.70	0.010	0.31
				HARDNESS 5-6 (CALCITE 3). NUMEROUS											D-01802	17.68	19.94	2.26	0.003	0.08
				EARTHY OXIDIZED FRACTURES AND ZONES											D-01803	19.94	21.27	1.33	0.007	0.23
				VISIBLE AS RUSTY BLOTCHES, STAINS																
				AND OPEN VUGS. TRACE TETRAHEDRITE																
				ASSOCIATED WITH ENCLOSED PYRITE AND																
				GRANULATED BLOTCHES.																
				GRADUALLY LESS VEINING.																
21.27	26.00	4.73	QCSW	QUARTZ-CALCITE STOCKWORK ZONE	20	60			5	4					D-01804	21.27	22.74	1.47	0.015	0.32
				WHITE TO PALE GREY CRISSCROSSING											D-01805	22.74	24.07	1.33	0.020	0.29
				QUARTZ-CALCITE VEINING 25-30°, 45°											D-01806	24.07	26.00	1.93	0.014	0.48
				AND 70°-90° TO C.A., 45° VEIN EARLIEST																
				- PTYGMATICALLY FOLDED.																

INTERVAL From	To	RECOV	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
					[illegible]	[illegible]	[illegible]	[illegible]	CARB	PY	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]	Ag
				20-40° VEINS TO 22 CM WITH RANDOM																
				WALLROCK FRAGS. POSSIBLE TRACES																
				OF [illegible] IN LATE QUARTZ																
			QCVN	VEINS? AND FRACTURES. SEVERAL																
				BRECCIA VEIN ZONES.																
				VEIN CONTACT - BRECCIATED.																
26.00	27.66	1.66	QCVN	QUARTZ CALCITE VEIN MASSIVE	80	1	T		15	2			T?		0-01807	26.00	27.66	1.66	0.009	0.21
				WHITE QUARTZ CALCITE VEIN WITH																
				ISOLATED PARTIALLY DIGESTED PALE																
				GREEN WALLROCK FRAGS.																
				VEIN CONTACT 40° TO C.A.																
27.66	48.50	20.84	QCBX	QUARTZ BRECCIA VEINING - AS ABOVE	40-80	10	T		10-20	T-2			T		0-01808	27.66	29.23	1.57	0.014	0.30
				MASSIVE WHITE QUARTZ CALCITE BRECCIA											0-01809	29.23	31.01	1.78	0.015	0.12
				VEINING 0-20°, 40-60°, 80-90° TO											0-01810	31.01	32.33	1.32	0.007	0.05
				C.A. PINK LATE STAGE CALCITE PRESENT.											0-01811	32.33	33.65	1.32	0.015	0.14
				TETRAHEDRITE ASSOCIATED WITH PYRITE + MOLY(?)											0-01812	33.65	35.76	2.11	0.014	0.75
				STRINGERS IN GREY [illegible] QUARTZ											0-01813	35.76	37.45	1.69	0.017	0.44
				FRAGS.											0-01814	37.45	39.60	2.15	0.024	0.67
															0-01815	39.60	41.80	2.20	0.013	0.28
															0-01816	41.80	44.25	2.45	0.015	[illegible]
				46.30 - 48.50 BROKEN CORE, OPEN											0-01817	44.25	45.60	1.35	0.006	0.03
				FRACTURES WITH [illegible] QUARTZ											0-01818	45.60	48.50	2.90	0.007	0.02
48.50	57.40	8.90	QCZN	QUARTZ CALCITE ZONE - MEDIUM	5	5-15	T		4	5	T-2 in QV		T-1 in QV		0-01819	48.50	49.50	1.00	0.006	0.01
			(ANTF)	TO DARK GREY MODERATELY SILICIFIED																
				AND BLEACHED FOLIATED ANDESITE TUFF											0-01820	51.35	52.35	1.00	0.003	0.01
				QUARTZ - SERICITE - PYRITE ALTERATION											0-01821	52.35	54.20	1.85	0.007	0.02
				PERVASIVE. NUMEROUS QUARTZ-CALCITE											0-01822	54.30	56.16	1.96	0.006	0.03
				SWEATS, FRACTURE FILLINGS AND LESS											0-01823	56.16	57.40	1.24	0.091	0.49
				COMMON VEINS.																
				SOME DISJOINTED MILKY WHITE VEINS																
				CONTAIN MINOR SPHALERITE TETRAHEDRITE																
				CLOTS.																

INTERVAL From	To	RECOV	ROCK	DESCRIPTION	ALTERATION %QV	[illegible]	[illegible]	[illegible]	[illegible]	SULPHIDES [illegible]	[illegible]	[illegible]	AsS	[illegible]	SAMPLE	From	To	Length	ASSAYS Au	Ag
57.40	83.60	26.21	ANTF	ANDESITE TUFF - MEDIUM-GREY	T-5	5-10	10-20		3-5	5	T in QV		T in QV		0-01824	57.40	58.40	1.00	0.004	0.01
				AND GREEN, MOTTLED, FINE GRAINED																
				PYROCLASTIC ROCK - LO TO MODERATE																
				CLAY ALTERATION THROUGHOUT. NUME-																
				ROUS CALCITE SWEATS THROUGHOUT																
				- 68.85 - 71.50 CRYSTAL TUFF WITH																
				- 2 - 8 mm EUHEDRAL PETROGRAPHIC																
				FELDSPAR PHENOCRYSTS																
				- 75.69 - 75.90 - OPEN FAULT WITH																
				BROKEN ROCKS → NONE CORE BETWEEN																
				- 20 cm CORE NOT TAKEN																
				- 75.90 - 76.80 - SHEAR ZONE FAULT																
				- 50° - 55° / - 76.60 - 76.80 - GOUGE																
83.61	85.75	2.14	QCZN	QUARTZ CALCITE ZONE - AS ABOVE	5-10	10	10-30		5	5			T in QV		0-01825	82.61	83.61	1.00	0.011	0.04
				VEINING 60°, 90° TO C.A. UP TO											0-01826	83.61	84.69	1.08	0.230	0.95
				2 cm THICK											0-01827	84.69	85.75	1.06	0.007	0.03
85.75	92.20	6.45	HETT	HETEROLITHIC TUFF - MEDIUM GREY	T		20-50		3	4					0-01828	85.75	86.75	1.00	0.008	0.02
				AND GREEN BLEACHED CLAY ALTERED																
				COARSE FRAGMENTAL, H-2-4																
				MINOR GREEN PYROPHYLLITE INTERBEDS																
				WIDELY SPACED RAGGED QUARTZ VEINS																
				FAULT CONTACT 45° TO C.A.																
92.20	130.46	38.26	QCZN	QUARTZ CALCITE ZONE - GREY	2-10	T-20	20-50		2-5	3-5			T in QV		0-01829	91.20	92.20	1.00	0.009	0.03
	EOH			CLAY ALTERED, BLEACHED, AND FAULTED											0-01830	92.20	92.80	0.60	0.004	0.01
				HETEROLITHIC TUFF WITH FAULT BOUNDED											0-01831	92.80	94.92	2.12	0.005	0.02
				QUARTZ-CALCITE BRECCIA VEINS -											0-01832	94.92	96.93	2.01	0.009	0.06
				- FAULTING 30° - 55° TO C.A.											0-01833	96.93	98.39	1.46	0.007	0.04
				TRACE TETRAHEDRITE AS ISOLATED SPECK IN QV											0-01834	98.39	99.98	1.59	0.004	0.01

INTERVAL	RECOV	ROCK TYPE	DESCRIPTION	ALTERATION	SULPHIDES	SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
			100.30-104.73 – FAULT ZONE BROKEN			D-01835	[illegible]	104.17	4.19	0.002	0.01
			GROUND GOUGE, VEIN FRAGS – 28° TCA			D-01836	104.17	109.00	2.83	0.001	0.01
			– 35% CORE LOSS			D-01837	[illegible]	[illegible]	1.86	0.002	0.01
			112.80-113.70 – FAULT ZONE BROKEN CORE			D-01838	108.86	110.36	1.50	0.004	0.02
			25° TO C.A. 15cm LOST CORE			D-01839	110.36	112.90	2.54	0.006	0.01
			– 113.70 – 129.30 – MODERATELY SILICIFIED			D-01840	112.90	115.90	3.00	0.003	0.09
			CORE THROUGHOUT.			D-01841	115.90	116.95	1.05	0.015	0.63
			– INCREASING GREY CALCITE VEINING			D-01842	116.95	118.95	2.00	0.002	0.04
			DOWNHOLE.			D-01843	118.95	119.95	1.00	0.001	0.12
						D-01844	119.95	121.31	1.36	0.001	0.01
						D-01845	121.31	124.08	2.77	0.004	0.08
						D-01846	124.08	127.05	2.97	0.006	0.07
						D-01847	127.05	129.30	2.25	0.390	1.38
			– 129.30 – 130.46 – FAULT ZONE GOUGE			D-01848	129.30	130.46	1.16	0.010	0.10
			CLAY ZONE 20° TO C.A. 35% CORE								
			LOSS								
			130.46 – END OF HOLE								

NEWHAWK GOLD MINES

Drill Hole Record

Interval From	Interval To	Recov.	Rock Type	Description	Sample No.	From	To	Width	Au oz/t	Ag oz/t
0	1.52		CASG	CASING NO RECOVERY						
1.52	10.69	9.17	QCZN	QUARTZ CALCITE ZONE – MEDIUM	0-01849?	1.52	2.47	0.95	0.010	0.12
				TO PALE GREY WITH SILICIFIED AND	0-01850	2.47	4.87	2.40	0.003	0.06
				BLEACHED [illegible] ANDESITIC	0-01851	4.87	5.87	1.00	0.001	0.01
				ANDESITE TUFF. SLIGHT MOTTLING						
				THROUGHOUT. HARDNESS 4-6.						
				RANDOM WHITE QUARTZ VEINS, VEINLETS AND FRACTURE FILLINGS, SOME						
				PTYGMATIC FOLDING 20°, 50°, 70° TO						
				C.A. FOLIATION – 45° TO C.A.						
				– 1.52–2.37 – 30 cm GROUND [illegible]						
				– [illegible]	0-01850?	9.69	10.69	1.00	[illegible]	0.01
10.69	16.49	5.80	QCBX	QUARTZ CALCITE BRECCIA VEINING	0-01853	10.69	11.60	0.91	0.024	0.45
				MASSIVE MILKY WHITE QUARTZ CALCITE	[illegible]	11.60	13.01	1.41	0.041	[illegible]
				BRECCIA VEIN WITH NUMEROUS ANGULAR	0-01855	13.01	14.46	1.45	0.010	0.58
				PALE GREY GREEN WALLROCK SHARDS	0-01856	14.46	15.75	1.29	0.055	0.48
				– FABRIC 30°–45°, 60° TO C.A.						
				– 15.75–16.53 – BLONDE [illegible]						
				[illegible]	0-01857	15.75	16.53	0.78	0.411(T)	0.41
				[illegible] 0.5–0.8 cm [illegible] HARDNESS 5-6						
				– TRACE [illegible]						
				BRECCIATED VEIN CONTACT						
16.49	17.67	1.18	QCZN	QUARTZ CALCITE ZONE AS ABOVE	0-01858	16.53	17.67	1.14	0.010?	0.45
				ERRATIC QUARTZ CALCITE VEINS 45°,						
				60–90° TO C.A. MINOR [illegible]						
				VEINING						
				BRECCIATED VEIN [illegible]						
17.67	23.60	5.93	QCBX	QUARTZ BRECCIA VEINING AS ABOVE	0-01859	17.67	18.91	1.24	0.009	0.43
				MASSIVE MILKY WHITE QUARTZ [illegible]	0-01860	18.91	21.40	2.49	0.016	0.24
				VEINING WITH NUMEROUS ANGULAR [illegible]	0-01861	21.40	22.33	0.93	0.01	0.25?
				WALLROCK ZONES AND SHARDS	0-01862	22.33	23.60	1.27	0.011	0.34
				VEINING 0–20°, 40–70° TO C.A.						
				CALCITE AS COARSE CLOTS IN QUARTZ [illegible]						

INTERVAL FROM	INTERVAL TO	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE NO.	FROM	TO	WIDTH	ASSAYS	
				[illegible]																
23.60	29.34	5.74	QCZN	QUARTZ CALCITE ZONE — MASSIVE WHITE QUARTZ CALCITE VEINS 30°-45° TO CA — 25 CM THICK, AND SMALLER ISOLATED QUARTZ CALCITE VEINS, BRECCIA VEINS AND FRACTURE FILLINGS, I.E. A PALE GREY GROUND WITH SILICEOUS ANDESITE TUFF. BRASSY SECONDARY PYRITE IN VEINS, SOMETIMES WITH MINUTE TETRAHEDRITE SPECKS.	20	30	2		5				7		D-01863	23.60	25.74	2.14	0.010	0.36
															D-01864	25.74	27.37	1.63	0.009	0.24
															D-01865	27.37	29.34	1.97	0.019	0.49
29.34	31.48	2.12	QCBX	QUARTZ CALCITE BRECCIA ZONE AS ABOVE — MASSIVE WHITE QUARTZ AND CALCITE VEINING WITH NUMEROUS LARGE GREY-YELLOW ANGULAR WALLROCK FRAGS — FRAGS 2-8 CM DIA. FABRIC 30°, 50° TO CA. WHITE AND PINK CALCITE FORMS DISTINCT CLOTS IN QUARTZ VEINING. TRACE TETRAHEDRITE ADJACENT TO HIGHLY SILICIFIED WALLROCK FRAGS.											D-01866	29.34	31.47	2.13	0.007	[illegible]
31.46	32.89	1.43	QCSW	QUARTZ CALCITE STOCKWORK VEINING WHITE CRISSCROSSING QUARTZ CALCITE VEINING TO 1 CM THICK 50°-90° TO CA. LATER VEINING INCREASINGLY CALCITE RICH. LAST VEINLETS CONTAINING YELLOW SIDERITE.											D-01867	31.47	32.87	1.40	0.012	0.41

INTERVAL FROM	TO	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
37.89	44.59	11.70	QCBX	QUARTZ CALCITE BRECCIA VEINING	[illegible]	20	2		[illegible]						D-01868	32.87	33.87	1.00	0.011	0.27
				AS ABOVE. MASSIVE WHITE QUARTZ WITH											D-01869	33.87	35.97	2.10	0.010	0.54
				WHITE, GREY AND PINK CALCITE SHOTS											D-01870	35.97	37.70	1.73	0.008	0.30
				AND ANGULAR WEAKLY SILICIFIED WALLROCK											D-01871	37.70	39.30	1.60	0.005	0.83
				SHARDS. ISOLATED FRAGMENTS OF											D-01872	39.10	40.14	1.04	0.017	0.05
				BLACK AND GREY BANDED CHALCE-											D-01873	40.34	42.39	2.05	0.004	0.04
				DONIC QUARTZ WITH PYRITE AND TETRA-											D-01874	42.39	43.47	1.08	0.010	0.12
				HEDRITE?.											D-01875	43.47	44.59	1.12	0.012	0.48
				SECTIONS OF LATE STAGE MASSIVE CALCITE,																
				USUALLY WHITE BUT OFTEN PINK AND																
				SOMETIMES YELLOW (SIDERITE).																
				-INCREASING VEIN CONTENT DOWNHOLE.																
44.59	60.14	15.15	QCUN	QUARTZ CALCITE VEIN - MASSIVE	70-80				30-40				T		D-01876	44.59	45.90	1.31	0.009	0.15
				WHITE QUARTZ WITH LATER											D-01877	45.90	47.56	1.66	0.069	0.01
				WHITE, PALE PINK, TO FAINT YELLOW											D-01878	47.56	50.06	2.50	0.003	0.06
				CALCITE VEIN. WEAKLY ISOLATED											D-01879	50.06	51.41	1.35	[illegible]	1.65
				BLEACHED TO BLEBBED WALLROCK											D-01880	51.41	52.62	1.21	[illegible]	0.19
				FRAGS AND CLOTS OF SECONDARY											D-01881	52.62	54.59	1.97	0.006	0.11
				PYRITE. FABRIC AND CONTACTS 70°											D-01882	54.59	56.70	2.11	0.011	0.25
				45° TO CA.											D-01883	56.70	58.07	1.37	0.005	0.08
															D-01884	58.07	60.14	2.07	0.006	[illegible]
4	67.23	7.09	QCBX	QUARTZ CALCITE BRECCIA VEINING	50	10	2		20	3			T-1		D-01885	60.14	62.67	2.53	0.012	0.27
				AS ABOVE - MASSIVE WHITE QUARTZ VEINING											D-01886	62.67	64.40	1.73	0.025	0.21
				WITH NUMEROUS FRAGS. FABRIC 0°-40° TO											D-01887	64.40	66.38	1.98	0.009	0.18
				CA. TRACE TETRAHEDRITE AS FINE											D-01888	66.38	67.23	0.85	0.007	0.08
				GREY GRAINS AND STRINGERS IN MILKY WHITE																
				QUARTZ WITH DARK BLUE GREEN STAINED																
				WALLROCK FRAGS.																
67.23	75.22	8.99	QCZN	QUARTZ CALCITE ZONE. WHITE	5-10	20	2		3	5	T-1 in VEIN	T in VEIN	T-1 in VEIN		D-01889	67.23	68.54	1.31	0.02	0.01
				QUARTZ CALCITE VEIN FRAGS IN DARK											D-01890	68.54	70.36	1.82	0.13	0.75
				GREY MODERATELY SILICIFIED FOLIATED											D-01891	70.36	71.64	1.28	[illegible]	0.01
				WALLROCK. [illegible] TO 13 CM WITH																

INTERVAL (specify ft or m) From	To	RECOV.	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Ang	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t
				QCBN CONT'D																
				RAGGED CONTACTS WITH WALLROCK.											D-01892	71.64	73.30	1.66	0.008	0.06
				NUMEROUS DYNAMICALLY FOLDED QUARTZ											D-01893	73.30	75.22	1.92	0.020	0.34
				VEINLETS ~15° TO C.A. LATER BRECCIA																
				VEINING 40°, 80°-90° TO C.A.																
				- TRACE BLONDE SPHALERITE WITH																
				SPECKS OF GALENA AND WISPY TETRA-																
				HEDRITE COATINGS IN GREY AND WHITE																
				BANDED QUARTZ BRECCIA VEINS -																
				MINERALIZED VEINS 40° TO C.A.																
				DECREASING VEINING AND SILICIFICATION																
75.22	78.64	3.32	ANTF	ANDESITE TUFF MEDIUM GREY	5	5-10	5		5	5					D-01894	75.22	76.55	1.33	0.010	0.14
	EOH			FINELY BANDED AND FOLIATED (50° TO CA)																
				ASHY TUFF. RANDOM FELSIC FRAGS.																
				RARE ALTERED TO QUARTZ, SERICITE																
				± CLAY; PYRITE SCHIST. LATE STAGE																
				CALCITE SWEATS AND VEINLETS																
				COMMON.																
				- 76.55 - 77.22 - QUARTZ VEINS ~85°±5°											D-01895	76.55	77.22	0.67	0.005	0.03
				TO CA UP TO 2.5 CM THICK											D-01896	77.22	78.22	1.00	0.007	0.12
				78.64 M END OF HOLE																

APPENDIX II

[illegible]RANCH
[illegible]T REPORT

17,133
Part 2 of 2

DIAMOND DRILL CORE CODE

Four Letter Code	Rock Type
OVBD	– overburden
ANDS	– andesite
BASL	– basalt
DACL	– dacite
DIOL	– diorite
SYNL	– syenite
ARGL	– argillite
ARNL	– arenite
ARKS	– arkose
ANLL	– andesite, lapilli tuff
ANTF	– andesite, tuff
ANXL	– andesite, crystal tuff
ANBX	– andesite, breccia
ANPP	– andesite, porphyry
CHRL	– chert or silicious mudstone
DCLL	– dacite, lapilli tuff
DCTF	– dacite, tuff
DCBX	– dacite, breccia
DCPP	– dacite, porphyry
DCXL	– dacite, crystal tuff

PPSY	- porphyry, syenite
PPFP	- porphyry, feldspar
PPQE	- porphyry, quartz eye
PPHB	- porphyry dyke, hornblende
AKWK	- arkosic wacke
LIWK	- lithic wacke
HELT	- heterolithic tuff
QTVN	- quartz vein
QCVN	- quartz-calcite vein
QCSW	- quartz-calcite stockwork
QCBX	- quartz-calcite breccia
CTZN	- carbonate alteration (calcite-ankerite siderite)
QTSW	- quartz stockwork
QTBX	- quartz breccia
QTZN	- silicified zone
CASG	- casing

ANLT - Andesite Lapilli Tuff: Colour dark to medium grey, moderately foliated, to massive rock. Angular felsic phenocrysts to rounded clasts up to 3cm, averaging 7-8mm long in a granular to ashy matrix. Regional alteration 20% silcia, 5-10% sericite, 5% interstitial pyrite. Fragments matrix supported.

ANTF - Andesite Tuff: Colour dark to medium grey moderately foliated to massive rock. Generally fine-grained with average grain size 2-3mm. Contains minor subunits of ANLT, ANXT, ANBX, ANPP and AELT.

ANXT - Andesite Crystal Tuff: Colour dark to medium grey moderately foliated to massive rock. Feldspar and sometimes quartz phenocrysts up to 5mm long in a grainy matrix. Fragments clast supported.

ANBX - Andesite Breccia: Medium to dark grey rock with angular fragments to 20 cm in diameter. Fragments often contain small 6 mm feldspar phenocrysts. Matrix is grainy to ashy in composition. Clasts usually matrix supported.

Andesite Porphyry: See Andesite cyrstal tuff?

All "Andesitic" Units: have undergone local quartz sericite pyrite alteration. Dusty disseminated Py may be responsible for overall grey cast of rocks.

Dacitic Units: Moderately silicified and bleached equivalents of andesitic units described above. Discrete small muscovite (sericite) books and minor secondary pyrite are common in a medium grey grainy to ashy, welded looking groundmass.

UNITS- DCLT, DCTF and DCBX are noted.

PPFP - Feldspar Porphyry: White to generally beige sub to euhedral 3-15mm feldspar phenocrysts comprising 10-15% of rock in a grainy matrix. Overall colour ranges from medium to pale grey and grey-olive green, due to silicification and pyrophyllite alteration present where this unit occurs. (See alteration suite below.)

PPHB - Hornblende Porphyry Dyke: Massive medium green, uniform fine-grained intermediate dyke. Characteristic 0.5-2mm black hornblende laths comprise up to 5% of the rock. This intrusive is postmineral and crosscuts highly silicified units and veining with clean sharp contacts. These dykes may be flat lying as extrapolated form drill hole information.

CHRT - Chert: Massive grey to grey-green massive to "flow banded" amorphous rock. Rock behaves brittley to deformation with numerous tension gashes and slips while the "Heterolithic Tuff" surrounding this unit behaves in a ductive fashion. Contact relationships with surrounding rocks appear primarily with soft sediment deformation features.

HELT - Heterolithic Tuff: Medium to dark gray pyro-epiclastic rock with highly variable appearing generally andesitic clasts in a foliated ashy matrix. Fragments range from 0.5-20cm in diameter and are rounded to hackly. Some cyclic beading can be seen. Possible fluviatile (and other subaqueous textures and rock) types are assoicated with this unit. This is the dominate rock type and host rock of the West Zone.

ALTERATION

SUITE- Quartz Sericite Pyrite: Premineral subregional alteration of all primary lithologies in the West Zone area.

Clay (Montmorillonite?): Pervasive softening of most lithologies reducing hardness dramatically while appearance remains relatively unchanged.

Intensity ranges from low to intense

- Low - Tacky coating on rock when wet, hardness 3-4
- Medium - Definite softening of rock, hardness 3
- Intense (high) - Rock very soft; can be easily scratched with a fingernail and core broken by hand, hardness 2.

This type of alteration is locally significant as it appears to envelope the hanging wall (east) side of the West Zone and presumably the Shore Zone. Surface expressions are a very distinct recessive though immediately east of the West Zone and

Shore(?) zones.

Pyrophyllite: This soft-inert green mineral forms the dominant visible and chemical indicator in the "footwall" or west side of the West Zone. Concentrations range from diffuse to massive lime-green clots. Moderate silicification often accompanies this mineral. Massive zones are usually associated with shearing.

QTZN - Quartz Zone: Medium to dark grey silicified rock with some quartz veining generally about 5-10%. Pervasive quartz alteration ranges from 10-90% silica.

QCZN - Quartz Carbonate (Calcite, Siderite, Ankerite) Zone:

- Generally medium grey silicified rock with early quartz followed by later quartz carbonate veining.
- Quartz Calcite veining ranges from white to dark grey and also pink calcite.
- Quartz Siderite is distinctive with its yellow siderite grains in white quartz. This is a common apparently last phase of veining and seen in tension gash line features.
- Quartz Ankerite is distinctive with pale yellow to ivory ankerite in late quartz fracture and gash veining.

QTSW - Quartz Stockwork Veining: 10-50% quartz veining forming a criss-crossing network within pale to medium grey bleached wallrock.

QCSW - Quartz Carbonate Stockworkz; Similar to above except calcite (commonly) forms a significant vein component usually 10-50% of quartz content.

QTBX - Quartz Breccia Veining: Generally white irregular quartz veining random to numerous silicified and bleached wallrock fragments and shards of earlier veining. Vein comprises 25-80% of rock. Wallrock moderately and sometimes intensely silicified and bleached.

QCBX - Quartz Calcite Breccia Veining: Similar to above except calcite comprises 20-50% of quartz veining in a moderately silicified host rock.

QTVN - Massive White Quartz Veining: 80% or greater quartz vein with minor random wallrock fragments and intervein zones. Wallrock moderately to intensely silicified and bleached.

QCVN - Quartz Carbonate Vein: Massive white to white quartz and pink calcite, yellow siderite, ivory ankerite veining. Carbonate comprised at least 5% of vien. Wallrock as in QTVN.