

803685

## NEWHAWK GOLD MINES

## Diamond Drill Hole Record

COLLAR	INCLINATION -64°	BEARING 265°	PROPERTY: <u>SULPHURETS</u>	SECTION: <u>50+705</u>	HOLE No. <u>88-279</u>
0	-63.79	263.13	LOCATION: <u>WEST ZONE</u>	HOR. COMP:      VERT. COMP:	Sheet: <u>1</u> of <u>18</u>
SPERRY FILE	INFO IN DRILL/SBB-279	COMPUTER	ELEVATION: <u>1378</u> <u>3324.16</u>	BEARING: <u>265° MG</u>	LOGGED BY: <u>L. LINDINGHA</u>
			CO-ORDINATES: <u>5070.84S 1378.84E</u>	STARTED: <u>25/06/88</u> COMPLETED: <u>06/07/88</u>	SAMPLED BY:
			LENGTH <u>2385</u> Feet <u>726.95</u> Meters	CORE SIZE: <u>BQ</u> RECOVERY: <u>100</u>	

INTERVAL (Specify ft. or m.)		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS		REASSAYS	
From	To				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t	Au oz/t	Ag oz/t
0	1.22	0	CASG	CASING NO RECOVERY																		
1.22	18.00	16.78	HELT	HETEROTHTIC TUFF - MEDIUM GREY MOTTLED COARSE CLASTIC ROCK. FRACS - SUBROUNDED XSTAL AND ASH TUFF TO 15CM IN ASHY LAMINATED MATRIX. 40% CLAST COMPOSITION. ROCK EXTENSIVELY ALTERED QUARTZ SERICITE PYRITE WITH RANDOM TORSIONAL QUARTZ CALCITE GASH WITH SWIRLS. FOLIATION BIMODAL 15°, 30° TO C.A. H - 4 MODERATE CLAY ALTERA- TION.	T	T	30		3	5												
		20%		-1.22-4.80- EXTENSIVE CORE LOSS 20% ABOVE BROWN OXIDIZED FRACTURES COMMON FRACTURES 0-10°, 20-35° TO C.A. -9.11-9.21 -9.90-10.20- FAULT 25° TO C.A. GOUGY SLABS GRADATIONAL CONTACT.																		
0	42.00	24.00	ANTF	ANDESITE TUFF - MEDIUM GRAY MASSIVE IRREGULARLY BANDED & LAMINATED ASH FALL TUFF. RANDOM LAPILLI & BAWCCIA FRACS BUT MOST ROCK COMPRISED OF FRACS < 3MM SOFT SEDIMENT DEPOSITIONAL TEXTURES COMMON IE CROSS LAMINATION, FLAME STRUCTURES. ALTERATION AS ABOVE. NUMEROUS CALCAREOUS FRACTURE COATINGS IN MODERATELY TO HIGHLY CLAY ALTERED ROCK. FOLIATION ~25° ± 10° H 3-4 PYRITE VERY FINELY DISSEM THROUGHOUT.  -34.50 - 40.50 ASHY FSPAR CRYSTAL TUFF INTERVALS COMMON	T	T	30-50		4	3-5												

E. V. KIRKHAM

B. W. KIRKHAM

















Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au Oz/t	Ag Oz/t
260.70	264.90	4.20	QCZN	QUARTZ CALCITE ZONE, NUMEROUS WHITE QUARTZ CALCITE VEINS AND FRACTURE FILLINGS IN MODERATELY CLAY ALTERED SHEARED AND ECLIT LAPILLI TUFF. SHOWING 30°-70° TO C.A. VEINS TO 9cm OR 0.5cm. OFTEN STRAKED AND BANDED FABRIC & PARTIAL MINERAL 30° 45° TO C.A.  -260.70-260.90- GOUGE ZONE 30°-45° TO C.A.  DECREASING QUARTZ CALCITE VEINING	1-5	T	30		1-2	3-6										
264.90	277.72	12.82	ANLT	ANDOSITIC LAPILLI TUFF - AS ABOVE MILD PERVASIVE QUARTZ CALCITE ALTERATION AS FRACTURE COATINGS AND ZONES. WROCK MODERATELY CLAY ALTERED. FABRIC FOLIATION ~ 45° TO C.A. H 3-4 LOCAL SOFT CONTROLLED SLIPPERED ZONES  FAULT 45° TO C.A. 3cm GOUGE	1	T	30-40		1-2											
277.72	295.32	17.60	QCZN	QUARTZ CALCITE ZONE WROCK AS ABOVE - NUMEROUS WHITE @ AND WHITE & PINK CALCITE VEINS, CLOTS AND STRINGS IN SHEARED ANLT DOMINANT FABRIC ~ 45° TO C.A. H-3-4 VEINS AND CLOTS TO 2cm THICK. MINOR CHLORITE AS SELECTIVE REPLACEMENT IN FRAGS.  -279.25-279.52- FAULT GOUGE ZONE 35°-40° TO C.A. BRUCIATED WROCK AND @ VEIN FRAGS COMMON -279.52-281.90 - SHEARED WROCK ~ 65° TO C.A. @ CALCITE FRACTURE FILLINGS -284.31-285.05 INTENSLY SHEARED AND FAULTED WROCK ~ 35° TO C.A. 10% STRAKED OUT VEIN @ GOUGE	3-10	T-S	30-50		1-3	4-5										
														S-5512	276.00	277.32	1.32	<0.005	<0.05	
														S-5514	280.20	281.00	0.80			
														S-5515	282.00	283.00	1.00			
														S-5513	277.32	280.20	2.88	<0.005	<0.05	
														S-5514	280.20	282.00	1.80	0.005	<0.05	
														S-5515	282.00	284.20	2.20	<0.005	<0.05	
														S-5516	284.20	285.10	0.90	<0.005	0.07	
														S-5517	285.10	287.10	2.00	<0.005	<0.05	
														S-5518	287.10	289.10	2.00	0.006	0.12	
														S-5514	289.10	291.30	2.20	0.005	0.09	

Specify ft. or m.

HOLE NUMBER SR8279 SHEET 8 of 13

INTERVAL		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au Oz/t	Ag Oz/t
			QCZH	CONT'D																
				-291.36 - 293.15 QUARTZ CALCITE	10	3	40		8	3				S-5520	291.30	293.20	1.90	0.005	0.17	
				VEINED SHEAR ZONE ~ 40°-50° TO C.A.										S-5521	293.20	295.32	2.12	0.012	0.57	
				FINELY DISSEM PY IN HIGHLY CLAY ALTERED W ROCK. RED QUARTZ CALCITE CLOTS TO 8 CM THICK IN SWIRLING W ROCK GOUGE.																
				INTENSIVE CONTACT - VEINED 30° TO C.A.																
295.32	297.80	2.48	DIOT	MICRO DIORITE DYKE - AS ABOVE	2	1	20		2	T				S-5522	295.32	297.80	2.50	0.005	<0.05	
				RANDOM QUARTZ CALCITE VEINLETS.																
				H S FABRIC GRAIN ALIGNMENT 45° TO C.A.																
297.80	301.50	3.70	QCZH (QTZH)	QUARTZ (CALCITE) ZONE - SIMILAR TO ABOVE EXCEPT INCREASING W ROCK SILECIFICATION AND BLEACHING. PYRITE CUMULATED INTO CLOTS. FABRIC 35-40° TO C.A. WHITE QUARTZ VEINING TO 2 CM - 20°, 40°-60° TO C.A. W ROCK HAS BEEN EXTENSIVELY BRECCATED PRIOR TO SILECIFICATION.	5	10-20	10-20		2	5	T IN VEIN		T IN VEIN	S-5523	297.80	299.80	1.98	0.011	0.17	
														S-5524	299.80	301.50	1.70	0.015	0.96	
301.50	303.50	2.00	QTSW	QUARTZ STOCKWORK - W ROCK AS ABOVE EXCEPT WELL SILECIFIED WITH W ROCK WHITE QUARTZ STOCKWORKING. VEINS TO 1.5 CM 0-25° 35°-50°, SWIRLING (0-90°) TO C.A. MINOR QUARTZ CALCITE IN VEINS. FABRIC ~ 40° TO C.A. H 5-6. - PYRITE, TETRAHYDROXITE, SPHALERITE CLOTS IN SOME VEINS AND AS MINOR FRACTURE FILINGS. 40° TO C.A.	6-10	25	10		1-2	5	T - T		T - T	S-5525	301.50	303.50	2.00	0.184	4.45	



Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS				
INTERVAL FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t			
303.50	306.20	2.70	QTBK	QUARTZ BRECCIA VEINING - MEDIUM BLUE GREY SILICIFIED VOLCANICLASTIC ROCK CROSS CUT AND BRECCIATED BY NUMEROUS SWIRLING MILKY WHITE QUARTZ VEINS EARLY VEINS 0-30° TO C.A. (MINERALIZED) FOLLOWED BY 45-75° VEINS. GENERAL FABRIC 40° TO C.A. LATER VEINING CONTAIN CALCITE. PYROPHYLITE AND PYRITE CLOTS PERIPHERAL TO VEIN ZONES. DECREASING VEINING	15-50	10-20	5				3	T		T				S-5526	303.50	304.70	1.20	0.016	0.45
																		S-5527	304.70	306.20	1.50	0.046	0.58
306.20	317.23	11.03	QTZH	QUARTZ ZONE - DARK BLUE GREY SILICIFIED AND "TETRAHEDRITE" STAINED LAPILLI TURF. MOTTLED DUE TO REDUCT FRAGS. FABRIC ~ 35° TO C.A. H 5-6 VEINING USUALLY DISRUPTED IRREGULAR STOCKWORK ZONES TO 4 CM THICK WITH ISOLATED SPOCKS AND CLOTS OF TETRAHEDRITE, PYRITE, AND GALENA. VEINS 0-50° TO C.A. AVE ~ 30° ROCK AS A WHOLE MAY BE ONE VERY WORK STOCK WORK. LATE PYRITE AS CLOTS IN LATE FRACTURES - RANDOM ESPAL PORPHYRY SECTIONS	1-5	10-30	5-30		1	3-6	T		T-1					S-5528	306.20	308.20	2.00	0.254	1.10
																		S-5529	308.20	310.40	2.20	0.090	2.15
																		S-5530	310.40	312.42	2.02	0.036	0.85
																		S-5531	312.42	314.70	2.28	0.032	0.21
																		S-5532	314.70	317.20	2.50	0.021	0.55
317.23	319.08	1.85	QTBK	QUARTZ BRECCIA ZONE. PALE GREY INTENSELY SILICIFIED BRECCIATED WROCK CROSS CUT AND DISRUPTED BY EARLY PALE GREY VEINING AND LATER MILKY WHITE QUARTZ WITH SORICITIC FRAGS. LATER QUARTZ CONTAIN SPOCKS AND CLOTS OF TETRAHEDRITE & GALENA. VEINS TO 4CM 15°-90° TO C.A. PYRITE FORM LATE FRACTURE FILLINGS AND CLOTS.	15	60	T-10				2	T	T	T				S-5533	317.20	319.10	1.90	0.017	0.31

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Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS		
INTERVAL	FROM				TO	Qv	Q	S	K	Ca	Py	Sp	Ga	Tet					Pyr	Au oz/t	Ag oz/t
FROM	TO																				
319.18	364.18	45.10	QZCN (ANBK)	QUARTZ CALCITE ZONE - MEDIUM BLUE GREY CRAY LAPILLI TUFF AND FELDSPAR PORPHYRY W/ROCK WITH MILKY WHITE EARLY QUARTZ VEINING CROSS CUT BY WHITE QUARTZ CALCITE VEINS. EARLY VEINS 45°-90°, LATER VEIN 0°-35°, OR FOLLOWING EARLIER TRENDS. H 4-6	2-5	5-30	10-50		1-2	5	T-40 IN VEIN	T IN V	T IN V	S-5534	319.10	321.30	2.20	0.825	1.06		
				-322.25 QC-YELLOW SPHALERITE VEIN 35° TO CIA 0.7 MM THICK 35% ZNS PLUS NUMEROUS OTHER FRACTURE VEINETS										S-5535	321.30	323.80	2.00	0.215	3.06		
				-323.48-323.68 WHITE QUARTZ VEIN @ NUMEROUS WISPY CALONITIC-EPIDOTIC FRACS. LATE WHITE CALCITE CLOTS										S-5536	323.30	324.10	0.80	0.067	0.05		
				-324.30 - 1 DECREASED W/ROCK SILICIFICATION @ INCREASED "SERPENTINE" OR PYRITIC ALTERATION. RANDOM QC VEINS 0-20°, 30°, 60-90°, TO CIA. TO 1 CM THICK										S-5537	324.10	326.10	2.00	0.010	0.17		
														S-5538	326.10	328.10	2.00	0.012	<0.05		
														S-5539	328.10	329.90	1.80	0.010	<0.05		
														S-5540	329.90	331.21	1.41	0.017	0.35		
														S-5541	331.31	332.84	1.53	0.012	<0.05		
														S-5542	332.84	335.41	2.57	0.006	<0.05		
														S-5543	335.41	336.50	1.09	0.016	<0.05		
			(QTSW)	-337.10-337.90- QUARTZ STOCKWORK & BARRETTA VEINING 30° TEND CROSS CUTTING 50°-65° TEND. TR TETRABEDRITE AS SPecks IN VEINS	20	10								S-5544	336.50	338.20	1.70	0.041	0.30		
														S-5545	338.20	340.20	2.00	1.193	0.80		
														S-5546	340.20	342.20	2.00	0.016	0.19		
														S-5547	342.20	344.20	2.00	0.013	<0.05		
														S-5548	344.20	346.20	2.00	0.006	<0.05		
														S-5549	346.20	348.60	2.40	0.050	0.55		
				-340.12- SPECKS OF ELECTRUM IN 5MM QUARTZ ~ 40° TO CIA.																	
				-340.90 - 343.60 - PYRITIC REPLACEMENT OF SELECT MINERALOGIES																	
				-348.80 - 353.10 CHALCITE - PYRITE REPLACEMENT OF MATRIX IN ANBK HOST ROCK. CLUSTS EXTENSIVELY CLAY ALTERED H 2-4. ROCK HAS PYRITIC STOCKWORK BK APPEARANCE.	5	5-15	20-50 CHALCITE		2	5-20					S-5550	348.60	350.30	1.70	0.029	<0.05	
														S-5551	350.30	353.10	2.80	0.016	0.11		
				-353.10 - 358.00- LOCALLY ABUNDANT PYRITIC ZONING & VEINING IN MODERATELY CLAY ALTERED ROCK. FABRIC - 45° TO CIA H 3-4.											S-5552	353.10	355.10	2.00	0.011	0.16	
														S-5553	355.10	357.10	2.00	0.010	<0.05		
														S-5554	357.10	359.10	2.00	0.066	0.09		
				-LOCAL LARGE @ CALCITE VEINS TO 1 CM THICK										S-5555	359.10	361.00	1.90	0.010	0.50		

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Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS		
INTERVAL	FROM				TO	Qv	Q	S	K	Ca	Py	Sp	Ga	Tet					Pyr	Au oz/t	Ag oz/t
FROM	TO																				
				-358.00-364.15 INCREASING W/ROCK SILICIFICATION W/MODERATE INCREASE IN MILKY WHITE QUARTZ VEINS. PIRITE VEIN CLOTTERED @ WHITE QUARTZ VEINS										S-5556	361.00	362.10	1.10	.007	0.13		
														S-5557	362.10	364.15	2.05	.010	0.52		
364.18	367.28	3.10	QC SW	QUARTZ CALCITE STOCKWORK ZONE - MILKY WHITE QUARTZ AND PINK CALCITE STOCKWORK VEINING IN TAUPE GRAY-GREEN W/SL SILICIFIED VOLCANICLASTIC WALL ROCK. VEINING TO 3cm THICK OR 1cm 35°-55° TO C.A. MANY VEINS CONTAIN NUMEROUS W/ROCK SHARDS. PY DISSEMINATED THROUGHOUT W/ROCK	5-15	30	15		2.4	5			T	S-5558	364.15	365.50	1.35	.009	0.32		
													T	S-5559	365.50	367.28	1.78	0.08	1.05		
367.28	403.21	35.93	QCZN	DECREASING VEINING QUARTZ CALCITE ZONE - MILKY WHITE QUARTZ GRAY QUARTZ CALCITE AND PINK QUARTZ CALCITE VEINING IN MODERATELY TO HIGHLY SILICIFIED AMPHIBOLITE BRECCIA. LARGER VEINS OFTEN CONTAIN SILICIFIED W/ROCK SHARDS. VEINS 20-30°, 45-60° TO C.A. AV. 0.5cm THICK UP TO 8cm THICK. FABRIC - 55° TO C.A. NUMEROUS TINY TERNING GASMS ⊥ TO FABRIC. -370.25- QC VEIN @ SPURKS OF TETRAHEDRITE PIRITE AND CHALCOPYRITE.	5-5	30	15		2	5			T	S-5560	367.28	369.30	2.02	0.012	<0.05		
													T	S-5561	369.30	371.30	2.00	0.011	0.33		
														S-5562	371.30	373.30	2.00	0.014	0.62		
														S-5563	373.30	375.20	2.00	0.007	<0.05		
														S-5564	375.20	377.30	2.00	0.011	10.05		
														S-5565	377.30	379.30	2.00	0.010	10.05		
														S-5566	379.30	381.50	2.00	0.012	10.05		
														S-5567	381.50	383.30	2.00	0.010	<0.05		
														S-5568	383.30	385.30	2.00	0.005	10.05		
														S-5569	385.30	387.30	2.00	0.006	<0.05		
														S-5570	387.30	389.70	2.40	10.005	10.05		
				-389.75-390.64 = 1cm QZ VEIN - 0.5° TO CA @ 3% TETRAHEDRITE WITH PIRITE VEINING MASSIVE PIRITE FRACTURE VEINS XSCUT QZ VEIN AND AT THAT SPOT HOST TETRAHEDRITE MINERALIZATION.										WF?	S-5571	389.70	390.70	1.00	0.158	7.48	
														S-5572	390.70	392.70	2.00	0.096	0.13		
														S-5573	392.70	394.70	2.00	0.007	10.05		
				-394.36-395.47- SHEAR ZONE - BROKEN CORE - 30° TO C.A.																	
				-394.47-394.90 - BROKEN CORE SLIVERS 20°-35° TO C.A.											S-5574	394.70	396.70	2.00	0.014	0.24	
				-400.05-402.70 - RANDOM QUARTZ STOCKWORK VEIN ZONES TO 25cm THICK. VEINING SWIRLING 0-60° TO C.A. AV. 35° 0.8cm THICK											S-5575	396.70	398.70	2.00	0.005	10.05	
														S-5576	398.70	400.70	2.00	0.011	0.52		
														S-5577	400.70	403.18	2.48	0.009	0.14		

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FROM	TO				QV	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t	
403.21	403.79	0.5	QC VN	VEIN CONTACT 20° TO G.A. QUARTZ CALCITE VEIN - OFF WHITE MOTTLED BRECCIA VEIN WITH NUMEROUS WALL ROCK FRAGS. FABRIC 40° TO C.A. ~ 80° TO CONTACT. H 6	90	3	2		3	1				T	S-5578	403.18	403.86	0.68	0.006	0.10	
403.79	433.25	29.46	QC BN	FAULTED VEIN CONTACT 25° TO G.A. QUARTZ CALCITE ZONE - PALE ORGY MODERATELY TO HIGHLY SILICIFIED W. ROCK HOSTING RANDOM SMALL QUARTZ AND LARGE QUARTZ CALCITE VEINS. IRREGULAR STOCKWORK BRECCIA VEINS 0° - 40° TO C.A., "PIKER CHIP" VEINS 45° - 90° TO C.A. - 403.79 - 407.00 - DECREASING VEINING - 407.00 - 408.20 QUARTZ CALCITE VEIN ~ 50° TO G.A. - 410.87 - 411.11 QUARTZ VEIN 35° TO G.A. WITH SMALL STAINING OUT (FRACTURE CONTROLLED) CLUSTERS OF BROWN SPHALORITE AND TETRAHEDRITE. - 421.70 - 427.00 - MASSIVE GREEN PYROPHYLITE ZONES, CLOTS AND BRECCIA FRAGS (TACTOME BRECCIA?) ACCOMPANIED BY IRREGULAR PYRITIC CLOTS AND DISSEMINA- TIONS. SOME RANDOM QUARTZ CALCITE VEINING. FABRIC 50° TO G.A. H 2-4 - 423.00 - 432.00 - QC BN TYPICAL 432.00 - 433.25 - INCREASING W. ROCK SILICIFICATION AND FRACTURE STOCKWORK VEINING	5-15	20	20		1-3	4	T-1 IN VEIN			T		S-5579	403.86	406.00	2.14	0.030	0.70
														S-5580	406.00	407.70	1.70	0.014	0.60		
														S-5581	407.70	410.00	2.30	0.005	0.08		
														S-5582	410.00	411.30	1.30	0.011	0.13		
														S-5583	411.30	413.30	2.00	<0.005	<0.05		
														S-5584	413.30	415.30	2.00	0.007	0.12		
														S-5585	415.30	417.30	2.00	0.006	0.11		
														S-5586	417.30	419.30	2.00	0.008	0.29		
														S-5587	419.30	421.30	2.00	0.008	0.35		
														S-5588	421.30	423.30	2.00	0.011	0.32		
														S-5589	423.30	425.30	2.00	0.010	0.20		
														S-5590	425.30	427.30	2.00	0.009	0.34		
														S-5591	427.30	429.30	2.00	0.019	0.07		
														S-5592	429.30	431.30	2.00	0.090	0.79		
														S-5593	431.30	433.20	1.90	0.020	0.53		
433.25	437.87	4.62	QCSW	QUARTZ CALCITE STOCKWORK PALE ORGY INTENSIVELY SILICIFIED W. ROCK WITH NUMEROUS CRISS CROSSING QUARTZ AND LARGE QUARTZ CALCITE BRECCIA. VEINS TO 20 CM OR 1CM 30°-60°, 50° CLASTIC MULTIPLE VEINING SEEN. FABRIC ~45° TO G.A. H 5-6	7-20	40	5			3-6				S-5594	433.20	435.20	2.00	0.014	0.07		
														S-5595	435.20	437.30	2.10	0.098	0.47		
														S-5596	437.30	438.10	0.80	0.105	3.96		



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FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t			
437.87	474.28	36.41	QCZN (ANLT)	DE QUARTZ CALCITE ZONE - MALDEN SILICIFIED WROCK AS ABOVE CROSS- CUT BY RANDOM WHITE QUARTZ-CALCITE VEINS 35°-85°. VEINS TO 2CM THICK AVE 6MM.	5	25	10		2	5								5-5597	438.10	440.10	2.00	.009	<0.05
																		5-5598	440.10	442.10	2.00	.009	0.39
																		5-5599	442.10	444.10	2.00	0.005	0.05
																		5-5600	444.10	446.10	2.00	0.005	<0.05
																		5-5601	446.10	448.10	2.00	0.008	<0.05
																		5-5602	448.10	450.10	2.00	0.009	<0.05
																		5-5603	450.10	452.10	2.00	0.008	<0.05
																		5-5604	452.10	454.10	2.00	0.013	0.28
																		5-5605	454.10	455.20	2.10	<0.005	<0.05
			(CHRT)	CONTACT - IRREGULAR SEDIMENTARY ~ 35° TO CA 455.20 MASSIVE CHERT W/ WROCK. VERY FINE GRAINS IN AN AMORPHOUS GREEN GROUNDMASS - ALTERATION, VEINING MINERALIZATION AS ABOVE H 4-5														5-5606	455.20	457.20	2.00	.006	0.26
																		5-5607	457.20	459.20	2.00	.009	0.27
																		5-5608	459.20	461.20	2.00	.010	0.26
																		5-5609	461.20	463.20	2.00	<0.005	<0.05
																		5-5610	463.20	465.20	2.00	.008	0.20
																		5-5611	465.20	467.20	2.00	0.009	0.11
																		5-5612	467.20	469.20	2.00	0.006	0.20
																		5-5613	469.20	471.20	2.00	<0.005	<0.05
																		5-5614	471.20	473.20	2.00	0.006	<0.05
																		5-5615	473.20	474.28	1.08	0.015	0.18
474.28	474.98	0.70	QCUN	VEIN CONTACT - 25° TO CA QUARTZ CALCITE VEIN - MOTTLED WHITE AND GREY WITH DARK AMORPHOUS AND FINE GRAINED PYRITE SPECK QUARTZ CALCITE BRITTA VEIN. BULK OF VEIN APPEARS TO BE INTENSIVELY SILICIFIED TO ALMOST TOTALLY REPLACED W/ WROCK FRAGS IN QTA VEINING. FABRIC 40° TO CA. H 3-5	50	3	5-10		30	5								5-5616	474.28	475.00	0.72	0.006	<0.05
474.98	484.74	9.76	QCZN (ANLT) (CHRT)	VEIN CONTACT 40° TO CA - FAULTED. QUARTZ CALCITE ZONE - QUARTZ CALCITE CLAY ALTERED GREEN CHERT AND ASHFAU TUFF W/ WROCK WITH NUMEROUS QUARTZ CALCITE VEINS 20°-30°, 40°-60° TO CA TO 2CM THICK. VEINS OFTEN SMITH ROCK W/ WROCK ZONES. FABRIC 50°, H 4-5	10	20	15		5	4								5-5617	475.00	477.00	2.00	0.007	<0.05
																		5-5618	477.00	479.00	2.00	0.005	<0.05
																		5-5619	479.00	481.00	2.00	<0.005	<0.05
																		5-5620	481.00	483.00	2.00	0.005	<0.05
																		5-5621	483.00	484.70	1.70	0.014	<0.05

Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au Oz/t	Ag Oz/t
484.71	485.52	0.78	QCVN	VEIN CONTACT $37^{\circ}$ TO C.A. QUARTZ CALCITE VEIN - WHITE AND GRAY QUARTZ WITH WHITER AND PINK COARSELY CRYSTALLINE CALCITE VEIN FABRIC $35^{\circ}$ $41^{\circ}$ TO C.A. ALSO CONTAINS ANKERITE? DOLOMITE? WITH URKITE AND BARITE? AS INTERSTITIAL AND CRYSTALLINE COMPONENT. RANDOM WALLROCK FRAGS $\sim 25^{\circ}$ - $35^{\circ}$ TO C.A. H-3-6	80	T	T		35 DOLOMITE BARITE	T				55622	484.70	485.55	0.85	0.007	<0.05	
485.52	486.40	0.88	QCRX	VEIN CONTACT $40^{\circ}$ TO CA QUARTZ CALCITE BRECCIA VEIN. - WHITE QCVN AS PREVIOUS UNIT WITH NUMEROUS GREEN WALL ROCK FRAGS AND ZONES BETWEEN VEINS. WHITE VEINING $\sim 30^{\circ}$ - $45^{\circ}$ TO C.A. CROSS CUTS GREY BRECCIA VEINS $\sim 60^{\circ}$ TO C.A. $40^{\circ}$ TO WHITE VEINING. RANDOM COARSE PYRITE CLOTS ASSOCIATED WITH PARTIALLY DIGESTED WACK FRAGS. YELLOW HONEY SPHALERITE OR ANKERITE AS MINUTE WIDS IN FINE GRAINED CLAY ALTERED CHERT FRAGS IN VEIN. H 4-6	30	10	20		15	5				55623	485.55	486.45	0.90	0.081	0.27	
545.50	549.10		QCFN	VEIN CONTACT $35^{\circ}$ TO C.A. QUARTZ CALCITE ZONE - VEINING AND ALTERATION AS ABOVE. WALLROCK IS MODERATELY SILICIFIED AND CLAY ALTERED ASH FALL TURF. H 4-5 FABRIC $\sim 50^{\circ}$ TO C.A. QUARTZ CALCITE VEINING $0-30^{\circ}$ TO C.A. X CUT BY $50^{\circ}$ - $80^{\circ}$ WHITE QUARTZ VEINING X CUT BY QUARTZ CALCITE TENSION GASHES $20^{\circ}$ - $70^{\circ}$ TO C.A. EARLY VEINS LARGER $\sim 5$ cm. AVE 1cm. LATER VEINS AV 4mm THICK. PRECIPIT SPECKS OF CHLORITE <sup>AND</sup> <del>AND</del> <del>787RA</del> NEDRITE IN EARLY VEINS <del>486.40</del> <del>486.89</del> - NUMEROUS ANOMAL CHERT FRAGS IN CONTACT OF MATRIX $\sim 45^{\circ}$ TO C.A.	5-10	20	10-15		5	4		T?								
														55624	486.45	488.50	2.05	0.010	<0.05	
														55625	488.50	490.50	2.00	0.005	<0.05	
														55626	490.50	492.50	2.00	0.007	<0.05	



Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t
			(QCSW)	-492.10-494.70- WAX QUARTZ STOCKWORK VEINING 10-50° TO C.A. BROW TOOTH VEINING COMMON														0.010	<0.05	
			(QCBX)	-494.20-495.60 QUARTZ STOCKWORK AND BRECCIA VEINS ~ 30° TO C.A. TRACE TETRA- HYDRATE IN MILKY WHITE Q BX VEINS	25													0.071	3.97	
				-502.25-503.00- QUARTZ CALCITE PYRITE STOCKWORK AND CRACKLE VEINING 25°-45° TO C.A. @ NUMEROUS G <sup>0</sup> VEIN JUNCTIONS.														0.006	<0.05	
																		0.007	<0.05	
																		0.064	0.13	
																		0.008	<0.05	
																		0.007	<0.05	
																		0.008	<0.05	
																		0.007	<0.05	
																		0.014	<0.05	
																		0.011	<0.05	
																		0.011	<0.05	
																		0.006	<0.05	
																		0.005	<0.05	
			(CHRT)	-528.00- ASH TUFF GRADES INTO DARK GREEN CHERTY TUFF AND CHERT. @ NUMEROUS SLUMP FEATURES														0.005	<0.05	
				-525.00-528.90- QCSW VEINS COMMON														0.008	<0.05	
			(QCBX)	-528.40-530.90 - RANDOM QUARTZ CALCITE BRECCIA VEINS TO 25 cm THICK 25° TO C.A. CROSS CUT BY WHITE GRANULAR Q CALCITE VEINS 20°-70° TO C.A. 70°-90° TO EARLIER VEINING.														0.010	0.10	
				-535.00-545.50 GRADUALLY DECREASING VEINING														0.009	<0.05	
																		0.015	1.09	
																		0.005	<0.05	
																		0.006	<0.05	
																		0.009	<0.05	
																		<0.005	<0.05	
			(DCTF)	-542.90-545.50- INCREASING GRAIN SIZE TO ALTAIR DACITE TUFF														0.005	<0.05	
																		<0.005	<0.05	
																		0.012	<0.05	
545.50	559.50	14.00	DCTF	DACITE TUFF - GRAY - GRANULAR ROCK (ISOLATED) FRAGS OF CHERT AND TUFF. UNIT RESEMBLES ALTERED DIORITE @ 2mm GRAIN SIZE. BUT CLASTS VARIABLY SIZE OF CLOSE OBSERVATION. FABRIC 40° TO C.A. H 5-6 RANDOM INTERSTITIAL PYRITE GRAINS	1	5	5-10		1	3								0.008	<0.05	
																		0.005	<0.05	
																		1.725	0.94	

INTERVAL		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t
			DCTR	CONT'D																
				WEAK QUARTZ CALCITE VEINING IN RANDOM SPOTS VEINING 5-45° TO 7cm THICK AV 0.4cm. LARGELY UNFRACTURED BRECCIATED.																
				-555.00 - 556.00 - ANGULAR BLACK ARGILLITE FRAGS COMMON										5-5658	558.45	559.45	1.00	0.031	0.05	
			(CHRT)	-557.00 - 559.48 - CHERTY SUBMIT MASSIVE VERY FINE GRAINED UMT.																
				INCREASING QUARTZ CALCITE VEINING																
760	631.30	71.80	QCEN	QUARTZ CALCITE ZONE - ALTERATION VEINING IN WALL ROCK AS ABOVE. FABRIC ~45° TO C.A. H 3-5 VEINING IRREGULAR TO 12cm AV 0.7cm 0-50° TO C.A. NUMEROUS LATE STAGE FRACTURE FILLINGS CROSSCUTTING TENSION GASHES. NUMEROUS COARSE PYRITE CLOTS IN VEINS. LOCAL QUARTZ STOCKWORK VEINS TO 30cm WID. - MULTIGENETATED	2-10	3-15	20-50		5-10	5				5-5659	587.45	581.50	2.05	0.024	0.05	
														5-5660	588.50	583.50	2.00	0.022	0.05	
														5-5661	583.50	585.50	2.00	0.011	0.05	
														5-5662	585.50	587.50	2.00	0.005	0.05	
														5-5663	587.50	589.50	2.00	0.032	0.05	
														5-5664	589.50	591.50	2.00	0.023	0.05	
														5-5665	591.50	593.50	2.00	0.010	0.05	
				-574.00 - 578.50 - WEAK QUARTZ & GRAY CALCITE STOCKWORK VEINING RAPIDLY TO WALL ROCK. WALL ROCK GREEN INTENSELY CLAY ALTERED MASS.	10				5-10					5-5666	573.50	575.50	2.00	0.016	0.05	
				-576.00 - 577.17 - MASSIVE WHITE & GRAY MOTTLED QUARTZ CALCITE VEIN - 30° TO C.A.										5-5667	575.50	577.50	2.00	0.015	0.05	
														5-5668	577.50	579.50	2.00	0.014	0.05	
														5-5669	579.50	581.50	2.00	0.024	0.05	
			(CHRT)	-580.00 - 585.65 - ROCK INTER ZONED ASH TUFF WITH CHERTY TUFF										5-5670	581.50	583.50	2.00	0.010	0.05	
				-585.65 - 595.00 DARK GREEN FINE GRAINED CHERT. QUARTZ CALCITE VEINS CROSSCUTTING THIS UNIT ARE IRREGULARLY MINERALIZED.	3	T	30		2	8				5-5671	583.50	585.50	2.00	0.009	0.05	
				-595.00 - 600.00 - MASSIVE UNIFORM FINE GRAINED TUFF @ ISOLATED FRAGS.										5-5672	585.50	587.50	2.00	0.014	0.05	
														5-5673	587.50	589.50	2.00	0.025	0.05	
														5-5674	589.50	591.53	2.03	0.008	0.05	
														5-5675	591.53	593.50	1.97	0.005	0.05	
														5-5676	593.50	595.50	2.00	0.014	0.22	
														5-5677	595.50	598.00	2.50	0.015	0.06	
			(QCSW)	-600.50 - 601.90 - QUARTZ CALCITE STOCKWORK VEINING IN SHEARED CHERT. 0-40° TO C.A. AV ~30° LARGE PY CLOTS COMMON.										5-5678	598.00	600.33	2.33	0.010	0.05	
														5-5679	600.33	602.10	1.77	0.050	0.05	
														5-5680	602.10	604.10	2.00	0.016	0.05	



Specify ft. or m.		RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION					SULPHIDES					SAMPLE No.	FROM	TO	WIDTH	ASSAYS	
FROM	TO				Qv	Q	S	K	Ca	Py	Sp	Ga	Tet	Pyr					Au oz/t	Ag oz/t
			QCEW	CONT'D																
				609.90 - 610.70 SHEARED WHITE QUARTZ CALCITE VEINS 10° - 30° TO C.A. X CUT BY 45° - 70° THICK TRENDS - - BIMODAL FABRIC ~ 30°, 40° TO C.A. - 610.70 - ROCK BECOMING VERY CHERTY IS MUDSTONE. (NUMBER OF FRACTURE VEINS LOCALLY WELL SILICIFIED)																
														5-5682	604.10	606.10	2.00	0.012	0.11	
														5-5682	606.10	608.10	2.00	0.019	<0.05	
														5-5683	608.10	609.90	1.80	0.010	<0.05	
														5-5684	609.90	610.80	0.90	0.020	<0.05	
														5-5685	610.80	612.80	2.00	0.019	0.24	
														5-5686	612.80	614.80	2.00	0.012	<0.05	
														5-5687	614.80	616.80	2.00	0.011	0.13	
														5-5688	616.80	618.80	2.00	<0.005	<0.05	
														5-5689	618.80	620.80	2.00	0.010	<0.05	
														5-5690	620.80	622.80	2.00	0.016	0.05	
														5-5691	622.80	624.80	2.00	0.010	<0.05	
														5-5692	624.80	626.80	2.00	<0.005	<0.05	
														5-5693	626.80	628.90	2.10	0.008	0.18	
														5-5694	628.90	631.30	2.40	0.016	0.05	
631.30	642.10	10.80	CHRT	CHERTY TUFF. DARK GREEN VERY FINE GRAINED CHERTY TUFF. COARSE BANDING & SLUMP FEATURES SOMETIMES SEEN. FABRIC - 20° - 80° TO C.A. H 4 RANDOM WIDELY SPACED VEINS & FRACTURES VEINLETS COMMON. INTENSELY SERICITIZED OR CLAY-PYRITIZED ALTERED - INTERMEDIATE VEINING	1-3	T-5	40	-	2	5										
														5-5695	631.30	632.30	1.00	0.008	<0.05	
694.00	694.00	51.90	QCEW	QUARTZ CALCITE ZONE - WORK AS ABOVE WHITE QUARTZ CALCITE VEINS FRACTURE FILLINGS AND STOCKWORK Q ~ 90° TO C.A. - PREFERRED ORIENT 25° TO C.A. FABRIC ~ 35° TO C.A. H 4 - 649.00 - 649.70 - QCBX VEIN ~ 25° TO C.A.  - 662.40 - 663.20 - QCBX VEINING ~ 3cm THICK ~ 25° TO C.A.  - 669.40 - 669.25 - QCSW VEINING ~ 3 - 30° TO C.A. UP TO 3cm THICK	5	T-10	40		3	5										
														5-5696	641.10	642.10	1.00	0.008	<0.05	
														5-5697	642.10	644.10	2.00	0.010	<0.05	
														5-5698	644.10	646.10	2.00	0.007	<0.05	
														5-5699	646.10	648.10	2.00	0.009	<0.05	
														5-5700	648.10	650.10	2.00	0.017	0.08	
														5-5701	650.10	652.10	2.00	0.012	<0.05	
														5-5702	652.10	653.10	2.00	0.019	0.05	
														5-5703	662.35	662.35	1.00	0.009	<0.05	
														5-5704	662.35	663.25	0.90	0.011	<0.05	
														5-5705	663.25	664.25	1.00	0.008	<0.05	
														5-5706	666.55	668.35	1.80	0.012	<0.05	
														5-5709	668.35	669.40	1.05	0.010	<0.05	
														5-5708	669.40	670.40	1.00	0.009	<0.05	

