Gossan Hill 803684

NEWHAWK GOLD MINES
Diamond Drill Hole Record

	INCLINATION	BEARING
COLLAR	0°	065°
61	0°	
122	0°	
122 to TD	Same 0°	

PROPERTY: Sulphurets
LOCATION: 4960S
ELEVATION: 1287.2
CO-ORDINATES: 4959.7 S 2960. E
LENGTH 1216' Feet 370.13 Meters

SECTION: 4960S
HOR. COMP: VERT. COMP.:
BEARING: 065°
STARTED: COMPLETED: June 14
CORE SIZE: BQTK RECOVERY: E

HOLE No. U90 - 449
Sheet: 1 of 16
LOGGED BY: TBCW
SAMPLED BY: Martin H.

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	MAP Ag oz/t
0.00	2.53		QTZN	Sericite ALT to Ash Tuff. Soft. Cut by 5% QZ VLTS @ 70°, 50° c.a. Soft sediment slumps. Dull mid gray color. 6% PY	5%	w	s			6%					4542	0.0	2.53	2.53	0.009	0.42	
															4543	2.53	4.24	1.71	0.005	0.35	
															4544	4.24	6.0	1.76	0.012	0.40	
															4545	6.0	8.0	2.0	0.012	0.60	
2.53															4546	8.0	10.0	2.0	0.008	0.54	
															4547	10.0	11.76	1.76	0.007	0.48	
2.53	4.24		QTVZ	65% vein Matrl w L CB. 35° Sericite altered Tuff.											4548	11.76	13.0	1.24	<0.005	0.10	
															4549	13.0	15.42	2.42	0.006	0.33	
															4550	15.42	17.2	1.78	0.034	1.68	
4.24	11.76		QTZN	Sericite altered Ash Tuff. Below 8.67 Lapilli Tuff. Soft. PY 6% Cut by 5% QZ VLTS 80°, 50° c.a. Mid gray color.	5%	w	s			6%											
11.76	13.0		QCVN	QZ-CB Vein. Replacement and fill following brecciation. Barren. TR pink CB. PY-N. 80° c.a.																	
13.0	15.42		QTZN	Sericite Altered Lapilli Tuff. Dull mid gray color. Soft. 7% PY as dust. Cut by 6% QZ VLTS 80° ca. Barren. CB Low.	6%	w	s		L	7%											
15.42	17.2		QZVZ	75% vein Matrl. 15% sericite ALT Tuff principally in upper 1/3. 80° c.a. Faint TR TET as dessem pin points, PY assoc in lower 1/3. Vein is matrix and replacement feature of BRXX.	15%	w			L	2%			21%								

R. V. KIRKHAM

Specify ft. or m.

HOLE NUMBER L90-449 SHEET 2 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/a	Ag o/t	MA Ag
17.2	19.03		QTSW	20% VLTS cutting sericite altered Lapilli Tuff. Soft. PY 7% as dust. VLT generally 2mm 50°, 70°, 80° c.a.	20%		s			7%					4551	17.2	19.03	1.83	0.010	0.33	
															4552	19.03	19.5	0.47	0.013	0.35	
															4553	19.5	21.0	1.5	0.018	2.43	
															4554	21.0	22.5	1.5	0.010	0.61	
															4555	22.5	24.0	1.5	0.024	2.44	
19.03	24.5		QC VN	White. 85% QZ & CB. 15% QZ-MS altered Tuff. Top ½ all calcite BTM mostly QZ. T- sprinkle TET in BTM ½. WR. inclusions w QZ are wispy bleached partially digested.	85%										4556	24.0	24.5	0.5	0.013	1.15	
															4557	24.5	25.24	0.74	<0.005	0.19	
															4558	25.24	26.16	0.92	0.009	1.48	
															4559	26.16	27.55	1.39	0.013	0.50	
24.5	25.24		DYK	70° c.a. Pale lt green. Sericitized vfg ground mass. Tiny lath/shard phenocrysts <0.5mm jade green sericite. Very soft.		N	i			w											
25.24	26.16		QZVN	continuation of above vein. Qz facies. Py lens @ base.																	
26.16	27.04		QTZN	Sub schistose QZ in fabric plane @ 65° ca sericite bands beginning to develop. PY 7%		w	i			7%											
27.04	27.55		DYK	Schistose, sheared buff brown green dyke. 10% PY. 75° c.a. Tiny phenocrysts gone to MS.			i			10%											
27.55	29.47		QTZN	Weak fabric @ 75° c.a. developed. Sericite dominant ALT facies; QZ segregations poorly developed. 12% PY partly banded. Soft. DK gray color w lt siliceous bands.		w	i			12%											

Specify ft. or m.

HOLE NUMBER 690-449 SHEET 3 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sb	Gn	Tet	Pyr
29.47	31.44		QTVN	75% QZ, 25% silicified to mostly digested Tuff inclusions. PY 7% SL 2% TR TET in subdendritic form 80° c.a.	75%	i	N		L	7%	2%		TR	
31.44	33.54		QTZN	5% QZ VLTS cut pyritic sericitized ash Tuff. Soft PY 18%. TR SL in VLTS. TR TET also. VLT 80° & sub // c.a.	5%	w	M			18%				
33.54	66.08		ANTF	very Pyritic, sericitized Ash Tuff. Dark green gray color. Few Frags. Soft. PY 12%. 2% QZ VLT interuptions, typically 1-3 mm. 70°-80° c.a.	2%	N	S			12%				
				53.2 First appearance of jade green mass of sericite.										
				61.53 Top of crackle zone filled w̄ brown CB in some cases, others w̄ QZ. weak BRxx assoc. 65.15 BTM.										
				65.36-66.08 Shear. Weakly banded soft intense sericite alt. PY 30%										
66.08	66.20		ANLT	Med gray, sericite Alt. PY 12%.		N	S			12%				
66.02	66.62		QTVZ	50% Qz replacement in former FRC BRxx. PY 30% in sericite altered WR inclusions. 50° c.a.										

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	WA Au
4560	27.55	29.47	1.92	0.005	1.28	
4561	29.47	31.44	1.97	0.068	3.10	
4562	31.44	33.5	2.06	0.030	0.79	
4563	33.5	35.5	2.0	0.014	0.56	
4564	35.5	37.5	2.0	0.007	0.20	
4565	37.5	39.5	2.0	0.008	0.35	
4566	39.5	41.5	2.0	<0.005	0.23	
4567	41.5	43.5	2.0	0.005	0.10	
4568	43.5	45.5	2.0	<0.005	0.21	
4569	45.5	47.0	1.5	<0.005	0.18	
4570	47.0	49.5	2.5	<0.005	0.10	
4571	49.5	51.0	1.5	<0.005	0.08	
4572	51.0	53.0	2.0	<0.005	0.08	
4573	53.0	55.0	2.0	<0.005	0.08	
4574	55.0	57.0	2.0	<0.005	0.07	
4575	57.0	59.0	2.0	<0.005	0.09	
4576	59.0	61.0	2.0	<0.005	0.21	
4577	61.0	63.0	2.0	<0.005	0.20	
4578	63.0	65.0	2.0	<0.005	0.21	
4579	65.0	66.2	1.2	<0.005	0.36	
4580	66.2	66.62	0.42	<0.005	0.20	

Specify ft. or m.

HOLE NUMBER 490-449 SHEET 4 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/c	Ag o/c	Au
66.62	100.4		ANTF	Ash Tuff sericite altered w̄ 15% PY.						15%					4581	66.62	68.6	1.98	<0.005	0.10	
				Mid green gray color. Moderately soft.											4582	68.6	70.6	2.0	<0.005	0.15	
				Bands lt grn tuffs. Portion of											4583	70.6	72.6	2.0	<0.005	0.18	
				PY occurs in linears @ 60° c.a. 1-10 mm											4584	72.6	74.6	2.0	<0.005	0.16	
				wide. dark color 80% PY. PY envelopes on crackle.											4585	74.6	76.6	2.0	<0.005	0.26	
				66.62 - 73. QZ occurs in gash zones											4586	76.6	78.6	2.0	<0.005	0.18	
				at 2% vol. thereafter rare.											4587	78.6	80.6	2.0	<0.005	0.20	
				Color lightens down hole.											4588	80.6	82.6	2.0	0.006	0.16	
				81.26 - 81.37, 81.56 - 81.62, 86.23 -											4589	82.6	84.6	2.0	<0.005	0.13	
				86.30 f.g. sericitized - intense -											4590	84.6	86.6	2.0	<0.005	0.15	
				dykes. Tiny phenocrysts. PY											4591	86.6	88.6	2.0	<0.005	0.13	
				envelopes on crackle. Crackle											4592	88.6	90.6	2.0	<0.005	0.15	
				appears to predate intense											4593	90.6	92.6	2.0	<0.005	0.28	
				sericitization. 55°, 75°, 90° c.a.											4594	92.6	94.6	2.0	<0.005	0.16	
				very light gray color.											4595	94.6	96.6	2.0	<0.005	0.17	
				82.0 - 82.19 dark - medium green											4596	96.6	98.6	2.0	<0.005	0.21	
				dyke w̄ QZ eyes. Sericite -											4597	98.6	100.6	2.0	<0.005	0.10	
				intense - altered.											4598	100.6	102.99	2.39	<0.005	0.24	
				Below 91 tiny fragments ghosted but																	
				apparent. Scattered large																	
				Lapilli also (3-7cm). These largely																	
				PY replaced particularily at rims.																	
				94.94 - 95.47 Vein Zone. QZ																	
				FRC fill and replacement. 35%																	
				QZ. 65% WR in varing stages																	
				of digestion. Bleached. Minor CB																	
				PY 20%. Barren.																	
				96.4 - 96.84 weak shear																	
				Sericite - pyrite schist. PY 20%																	
				Minor QZ at BTM.																	

Specify ft. or m.

HOLE NUMBER U90-449 SHEET 5 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	ALTERATION Q	ALTERATION S	ALTERATION K	ALTERATION Ca	SULPHIDES Py	SULPHIDES Sp	SULPHIDES Ga	SULPHIDES Tet	SULPHIDES Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	ASSAYS Ag oz/t	MA Ag
100.4	102.99		QTZN	Mid gray color. Hard. VLTS 3% 50°, 70°ca. VLTS obscure irregular. PY 8%	3%	S	W			8%					4599	102.99	104.5	1.51	0.007	0.13	
															4600	104.5	106.0	1.50	0.005	0.15	
				102.3 Slip Surface, Clay 6mm. Broken Blocky. 85° c.a.											4601	106.0	107.5	1.50	0.005	0.15	
															4602	107.5	109.5	2.0	0.013	0.28	
				102.96 Slip Surface 90° c.a. Clay. Broken, Blocky.											4603	109.5	111.0	1.50	0.041	0.17	
															4604	111.0	112.8	1.80	0.021	0.21	
102.99																					
102..	106.45		QTSW	QZ VLTS dominantly 80° c.a. also 50° 40° VLTS. 60% W.R. some bleached hard, silicified. Remainder suffering MS ALT. BRXX prior to vein matrl fill common. PY in QZ 1%; PY in Tuff 8% lt gray color dominant. Barren	40%	M	M			4%											
106.45	107.56		QTZN	Sericite schist after Lapilli Tuff. MS ALT -S. PY 18%. Fabric 80° c.a. No veining. Low Qz in Schist.	0%		S-i			18%											
107.56																					
107.56	109.5		QCBX	Brecciated ash Tuff which has been sericitized then silicified. Bleaching partial digestion. QZ matrix fill and subsequent CB fill late. PY 2%. BTM is grad to crackle zone. Barren.		S	S			2%											
109.5	112.8		QTZN	Ash Tuff Altered: QZ-MS at Top progressing to sericite alteration. PY occurs in crackles near top grad to ipreg concentrations. QZ VLT 3% Crackle 25°, 45°, 75° ca. VLTS 30° 60° ca.	3%	M	S			4%											

Specify ft. or m.

HOLE NUMBER U90-449 SHEET 6 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MAP Ag o/t
112.8	114.71		QTVZ	50% QZ Vein matl: Fill for BRXX, Tuff inclusions between QZ VLTS. Tuff sericitized then silicified. Hard. Bleached. Py in more poorly digested Tuff blocks. BTM CNT pyritic, 80° c.a. VLTS internal 50°, 70° c.a. Barren	50%	S	S			2%					4605	112.8	113.8	1.0	0.016	0.18	
															4606	113.8	114.7	0.90	0.012	0.22	
															4607	114.7	116.72	2.02	0.007	0.20	
															4608	116.72	118.7	1.98	0.016	0.35	
															4609	118.7	120.7	2.0	0.014	0.34	
															4610	120.7	122.7	2.0	0.011	0.26	
															4611	122.7	124.7	2.0	0.007	0.28	
															4612	124.7	125.58	0.88	0.009	0.43	
114.71	116.72		ANTF	Light gray color. No frags, vfg. Sericite altered. Mod Soft. Py 3%. Infrequent crackles marked by Py. Near both CNTS soft sediment deformation features.			S			3%												
				114.98 - 115.35' Sheared, altered zone. MS ALT w 5% VLT. Appears to be Lapilli Tuff selectively altered. CNT's 50° c.a																		
116.72																					
11 72	125.58		ANTF	Light gray Small frag Tuff. Uniform. 5% Py. Sericite altered. Soft. 2% QZ VLTS cut, generally 80° c.a.																	
				120.5 - 120.8 brown SL fills crackles.							TR										
				125.2 9cm VLT, 80° c.a. w 8% Py, 5% TET									TR.								

Specify ft. or m.

HOLE NUMBER U90-449 SHEET 7 of 10

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	ALTERATION Q	ALTERATION S	ALTERATION K	ALTERATION Ca	SULPHIDES Py	SULPHIDES Sp	SULPHIDES Go	SULPHIDES Tet	SULPHIDES Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	ASSAYS Ag oz/t	MA Ag
125.58	129.83		QTZN	QZ - MS alteration to ash Tuff. VLTS 4% 80° c.a & irreg crackle and Tension gashes filled w̄ QZ. PY also fills crackles. PY 12%. Generally hard silicified, weakly bleached but some sericite ALT patches remain. TR TET w̄ PY in VLT.	4%	S	M-			12%					4613	125.58	127.1	1.52	0.015	0.47	
															4614	127.1	128.6	1.50	0.008	0.43	
															4615	128.6	129.83	1.23	0.013	0.56	
															4616	129.83	130.3	0.47	0.026	0.69	
															4617	130.3	131.1	0.80	0.166	25.32	
															4618	131.1	132.4	1.30	0.023	0.47	
															4619	132.4	134.15	1.75	0.023	0.68	
															4620	134.15	135.83	1.68	0.011	0.46	
															4621	135.83	136.07	0.24	0.026	1.44	
129.83	131.1		QTUN	Both CNT irreg - No dip. Top 0.4 m BRXX w̄ QZ matrix. Blocks bleached silicified, pyritic. Bottom portion massive white QZ. No CB. w̄ 3% TET in subdendritic form. PY assoc.						4%											
131.1	135.83		QTZN	Strong to intense MS ALT to small frag Tuff or xtl Tuff w̄ intermittent QZ ALT. PY 20%, most as dust but crackle fill also. Crackle and thin noncontinuous VLTS @ 30°, 50°, 80° c.a. Weakly schistose beyond 135.35; band of ANLT about this which is silicified.	3%	m-w	S			20%											
				132.4 0.14 m Broken core minor CY FLT @ 50° c.a. silicified in proximity.																	
				133.92 - 134.12 FLT \ QZ vein 75° c.a. subsiduary @ 15° c.a. Clay on slip planes.																	
135.83	136.07		QTVZ	35% QZ as VLTS & BRXX matrix. 80° c.a. 15% PY. PY masses in QZ. TR TET in QZ	35%					15%											

Specify ft. or m.

HOLE NUMBER 490-449 SHEET 8 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	Au
136.07	138.0		QTZN	Silicified xtl Tuff. xtls dominantly lath	1%	S				15%					4622	136.07	138.0	1.93	0.018	0.37	
				subhedral shape. Some broken. Sericitized.											4623	138.0	140.0	2.0	0.031	0.23	
				PY 15%. Few PY filled crackles. 1% QZ											4624	140.0	142.0	2.0	0.054	0.53	
				VLTS. Hard. Light green gray color.											4625	142.0	144.0	2.0	0.010	0.35	
				137.05-137.43 Lapilli Tuff horizon. 50° ca.											4626	144.0	146.0	2.0	0.015	0.88	
				silicified. Ash Tuff Top\BTM sericitized.											4627	146.0	148.0	2.0	0.023	0.62	
138.0	138.45		FLT.	Extreme MS ALT to sericite schist. PY 1%			e			1%					4628	148.0	150.0	2.0	0.009	0.53	
				QZ-N. Sheared DYK? Lt green color.											4629	150.0	152.0	2.0	0.013	0.29	
				1 nodule PY - Lapilli? inclusion in DYK?											4630	152.0	154.0	2.0	0.020	0.63	
				DK colored - chlorite transverse irreg																	
				breaks 0.5mm width.																	
138.45	140.81		ANLT	low density lapilli in ash Tuff. Sericitized		M	M			10%											
				@ Top grad down to silicified.																	
				Light gray green color. PY 10%																	
				Soft becoming hard. Crackle																	
				feature continues w̄ PY fill.																	
140.81	145.48	F	FLT	Lithology as past interval - silicified	5%	S	S			10%											
				Broken, pyritic. Measurable dips 25°-35°																	
				ca. but these may be supplemental.																	
				Minor QZ Vein activity. PY 10%.																	
				Approx 0.5 m missing core. ⇒ Washed?																	
				FLT Squeezes drill rods, thus expect CY																	
				but none in box - washed?																	
145.48	186.18		ANTF	Mixed ash Tuff and xtl Tuff. Sericitized																	
				-m. Light grey green color. PY 10%.																	
				PY weaky in ash Tuffs. 2% QZ VLTS w cB 2%		w	m		w	10%											
				1mm - 1cm. Intermittent silicified																	
				intervals.																	
				47.4 1cm VLT 50° ca. w̄																	
				TR Sx. 1 sphalerite grain							TR										
				also noted in ash Tuff. No QZ assoc.																	

Specify ft. or m.

HOLE NUMBER 480-449 SHEET 9 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MA Ag
				154.22 – 154.42 Vein Qz and											4631	154	155.5	1.50	0.016	0.39	
				silicified BRXX w̄ Qz matrix.											4632	155.5	156.0	0.50	0.048	7.36	
				TR PY. 75° c.a.											4633	156.0	158.0	2.0	0.022	0.42	
				155.7 – 155.75 QZ VLT 80° c.a. 10%	80%								4%		4634	158.0	160.0	2.0	0.026	0.40	
				PY in masses. 4% Tet pin point								ELECTRUM			4635	160.0	162.0	2.0	0.028	0.40	
				and subdendritic. Chalcopyrite assoc.	1 spec ELECTRUM										4636	162.0	164.0	2.0	0.026	0.60	
				Several narrower VLTS w̄ TR TET											4637	164.0	166.0	2.0	0.017	0.35	
				occur below this VLT.											4638	166.0	168.0	2.0	0.013	0.26	
															4639	168.0	170.0	2.0	0.014	0.41	
				Qz VLT fill crackle. These have											4640	170.0	172.0	2.0	0.013	0.36	
				Envelop of alteration silica.											4641	172.0	174.0	2.0	0.016	0.51	
				174.5 9cm vein 75° c.a. TR TET											4642	174.0	176.0	2.0	0.044	0.74	
				176.0 PY decreases to 5%											4643	176.0	178.0	2.0	0.024	0.27	
				below 176.0.											4644	178.0	180.0	2.0	0.014	0.18	
				175.42 – 175.67 QZ Vein, BRXX											4645	180.0	182.0	2.0	0.026	0.47	
				w̄ Qz matrix. 60° c.a. 2											4646	182.0	184.0	2.0	0.025	0.26	
				generations VLT crosscut at ⊥											4647	184.0	186.18	2.16	0.023	0.25	
				5% PY.											4648	186.16	187.09	0.93	0.005	0.13	
				182.64 – 182.78 FLT 70° c.a. Clay											4649	187.09	189.0	1.91	0.032	0.24	
				on slip planes. Silicified											4650	189.0	190.69	1.69	0.035	0.82	
				adjacent. 1cm QZ VLT @ BTM																	
186.18	187.09		QTVN	QZ-CB replacement zone after brecciation.	H			H	L												
				w.R. ghosts – largely replaced in central																	
				interval. Both ends high sericitic																	
				w.R. remnants. 60° c.a. Barren.																	
187.09	190.69		ANTF	Mid green sericitized ash Tuff, small	1%		M														
				frags. Soft. Cut by 1% QZ VLT 1-2mm																	
				@ 60°, 80° c.a. CB in VLTS																	
				190.05 – 190.22 QZ VZ silicification																	
				and minor vein QZ introduction																	
				in weak shear. 60° c.a.																	

Specify ft. or m.

HOLE NUMBER 490-449 SHEET 10 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MA. Ag o
190.69	201.7		ANLT	Sericitized Lapilli Tuff. Mid greenish gray color. Soft. Occas large Frag mostly small. Py 8% tendency to be lensoidal in distribution. Cut by 1% QZ-CB VLTS 1-2 mm common. 2.5 cm rare.	1%		S			8%					4651	190.69	192.0	1.31	0.011	0.17	
															4652	192.0	194.0	2.0	0.010	0.16	
															4653	194.0	196.0	2.0	0.008	0.14	
															4654	196.0	198.0	2.0	0.017	0.47	
															4655	198.0	200.0	2.0	0.016	0.17	
															4656	200.0	202.0	2.0	0.011	0.54	
															4657	202.0	204.0	2.0	0.031	1.03	
															4658	204.0	205.75	1.75	0.013	0.35	
20..,			QCZN	Ash Tuff sericitized and cut by 5% QZ-CB VLTS @ 40°, 50°, 60° c.a. irreg and replacement zones. Minor Bleaching in isolated silicified areas. Py Py 8%	5%										4659	205.75	206.05	0.30	0.014	0.34	
201.7	203.13														4660	206.05	208.0	1.95	0.052	0.34	
															4661	208.	209.0	1.0	0.015	0.28	
															4662	209.0	210.42	1.42	0.011	0.23	
															4663	210.42	211.0	0.58	0.011	0.19	
															4664	211.0	211.91	0.91	0.023	0.27	
203.13	205.7		QTZN	Sericite altered Ash Tuff cut by 5% QZ VLTS, CB-H. 50°, 80° ca. PY 10%.																	
205.75	206.05		QTVZ	Silicified core to interval w̄ flat VLT at core. Top marked by 2cm VLT. BTM by series of VLTS sub // ca. PY 6%.	45%	S	M			6%											
206.05	206.33		QTZN	continuation of interval 205.75 - 206.05																	
206.33	210.08		QTSW	Bleached, silicified, lt gray color. 30% QZ VLTS @ 20°, 50°, 80° ca. BRXX zones show considerable replacement by QZ PY 4%. Proto-ash Tuff.	30%	C	N		L	4%											
210.08	211.91		QZVZ	Top and BTM solid massive QZ vein. Central area silicified Tuff w̄ 2-8cm VLTS sub // ca. QZ - 70%. PY 2%																	

Specify ft. or m.

HOLE NUMBER 6449 SHEET 11 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MAP Ag o/t
				Tr TET in Qz. Lower 0.36m thoroughly silicified and digested BRXX.											4665	211.91	214.0	2.09	0.006	0.25	
															4666	214.0	216.0	2.0	0.008	0.27	
															4667	216.0	218.0	2.0	0.008	0.26	
															4668	218.0	220.37	2.37	0.008	0.35	
															4669	220.37	221.37	1.0	0.067	0.75	
211.91	220.37		ANLT	Sericitized Lapilli Tuff. Mid green gray color. Soft. Several bands massive MS to 7cm. Several jade green lapilli MS alteration features. MS banding 80° ca. PY 1%.	1%	N	i		L	1%					4670	221.37	222.37	1.0	0.013	0.35	
															4671	222.37	223.9	1.53	0.013	0.36	
															4672	223.9	225.28	1.38	0.011	0.26	
															4673	225.28	226.94	1.66	0.027	0.31	
															4183	226.94	228.94	2.0	0.016	0.29	
220.37	222.83		QTZN	Sericitized Lapilli Tuff. Mid gray color cut by 5% Qz VLTS @ 55° 70°, 80° ca. PY 4%. Interval blocky in assoc w̄ FLT. ? 221.9 7cm FLT CLAY, Rx flour, pebbles. 50° c.a.	5%		S			4%											
222.83	225.28		QTVZ	Silicified, sericitized interval w̄ 70% Vein and replacement silica. MS seams also. CB-Low. PY 2%. 70° c.a. Fractured, broken core, blocky.	70%	i	M		L	2%											
225.28	226.83		QTZN	Intensely silicified, light gray color. Altered Lapilli Tuff. Cut by 8% Qz VLT PY 1%. VLTS 15°, 30° c.a.	8%	i	N		L	1%											
226.83	228.25		ANTF	Ash Tuff. almost no frags. PY 5% as vf dust. light gray green color. strongly sericitized. 227.1 FLT 3cm wide 20° ca. Clay and Qz VLT in plane.	<1%	N	S		L	5%											

Specify ft. or m.

HOLE NUMBER U90-449 SHEET 12 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr
228.25	228.94		FLT.	Brown earthy color. Mud. Clay & grit composition. Open Fault plane, open to surface?										
228.94	234.58		ANLT	Thoroughtly sericitized Lapilli Tuff. Occas bombs. Occas horizons ash Tuff. Soft. PY 2-20% [5%] QZ veining irreg 2%. BTM CNT 65° c.a.	2%	N	i			5%				
				233.73-234.28 weak BRXX zone ω QZ matrix. TET, PY and CP in sub veinlet.										
234.58	235.2		DYK	vfg sericitized dyk remnant tiny phenocrysts ghosted. Schistose. CNT 65° c.a. PY 2%	N		i			2%				
235.2	237.62		QTVZ	90% vein QZ and extreme silicification to Tuff. 65° c.a. Top 2/3 QZ Matrix BRXX ω silicification to most BRXX blocks. Band mass PY ω assoc SL & TET near Top. Grad down to massive silicification preceeded by Brecciation. 236.13-236.44 FLT. Broken Core. Surface Grit: brown earthy clay grit. lost core										
237.62	241.26		QTZN	Sericite ALT to Ash Tuff. Soft PY 8% 5% QZ VLTS: some BRXX matrix, some short interval stockwork. 60°, 30° c.a. 60° cut 30°.	5%		S		L	8%				
				241.06 1cm VLT 60° c.a. V.G. band 15mm long 2mm wide. Series of flakes which color QZ.								ELECTRUM		

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MAP Ag o/t
4184	228.94	230.5	1.56	0.068	0.38	
4674	230.5	232.49	1.99	0.009	0.69	
4675	232.49	234.73	2.24	0.008	1.13	
4676	234.73	236.5	1.77	0.024	1.45	
4677	236.5	237.62	1.17	0.006	0.19	
4678	237.62	239.12	1.45	0.031	0.43	
4679	239.12	240.62	1.50	0.041	0.31	
4680	240.62	241.26	0.64	7.615	3.47	

Specify ft. or m.

HOLE NUMBER 490-449 SHEET 13 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	ALTERATION Q	ALTERATION S	ALTERATION K	ALTERATION Ca	SULPHIDES Py	SULPHIDES Sp	SULPHIDES Ga	SULPHIDES Tet	SULPHIDES Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	ASSAYS Ag o/t	MA Au
241.26	254.18		ANTF	Mid green ash Tuff. Sericite altered. Soft	3%		S			5%					4681	241.26	243.0	1.74	0.028	0.48	
				Py 5%. 3% Qz VLTS. usually w̄											4682	243.0	245.0	2.0	0.011	0.23	
				silicified envelop. VLTS @ 20° 60° 80° ca.											4683	245.0	247.0	2.0	0.020	0.33	
				Barren. up to 0.13m. Generally 2mm.											4684	247.0	249.0	2.0	0.036	0.22	
															4685	249.0	251.0	2.0	0.021	0.17	
				249.94 - 251.1 Silicified zone. Hard											4686	251.0	253.0	2.0	0.008	0.13	
				Top 0.2m Sheared then silicified.											4687	253.0	255.0	2.0	0.008	0.15	
				BTM 0.2m FLT. Broken Core,											4688	255.0	257.0	2.0	0.030	0.42	
				brown earthy sand.											4689	257.0	259.0	2.0	0.005	0.10	
															4690	259.0	261.0	2.0	0.005	0.13	
															4691	261.0	263.0	2.0	0.005	0.10	
254.18	255.6		QTZN	Silicified ash Tuff. Hard. Py filled	N	i				4%					4693	263.0	265.0	2.0	0.005	0.10	
				crackles irreg. most common 60° ca											4694	265.0	267.0	2.0	0.028	0.20	
				Py 4%. No Qz VLT.											4695	267.0	269.0	2.0	0.029	0.26	
															4696	269.0	271.0	2.0	0.014	0.17	
255.6	266.53		ANTF	dark green ash Tuff. ~ few frags.	<1%	i-e				1%											
				Very soft Py 1%. Sericitized.																	
				Brittle. Very few Qz VLTS.																	
				263.7 Air fall Top? Shear?																	
				CB in bands 80° ca banded																	
				horizons w̄ Lapilli.																	
				266.53 - 267.68 QTZN																	
266.53	267.68		QTZN	8% Qz VLTS and adjacent	8%	s	w		M	4%											
				silicification to Tuff. Hard.																	
				Qz VLT 60°, 75° ca. Py filled																	
				crackle sub ll. Py 4%. CB																	
				occurs in assoc w̄ Qz-late fill?																	
267.68	283.93		ANTF	dark green ash Tuff. Sericite altered																	
				Soft Py 4% - 1% Qz VLT. Silicification																	
				envelopes adjacent.																	

Specify ft. or m.

HOLE NUMBER U98-449 SHEET 14 of 11

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr
283.93	284.98		QTZN	Light gray green color. Silicified ash Tuff. 2 weak shears, central interval, 70°, 80° c.a. QZ & PY mark shears. PY 7%.	1%	i	w		N	7%				
284.98	296.3		ANTF	Mid green ash Tuff. Sericite altered. Soft PY 6%. Occas PY filled crackles. QZ VLT 1%. Below 287.82 bands which are silicified. Differing angle c.a. but sight ~ c.a.	1%	w	S		N	6%				
296.3	300.8		QTZN	Altered Ash Tuff. Sericitized. Cut by 5% QZ VLT often BRXX matrix. 60°, 80° c.a. QZ VLT typically has silica ALT envelop.										
300.8	317.3		ANTF	Mid gray green color. Soft. Sericitized w̄ intermittent silicified horizons. PY Filled crackles. PY as dust. PY 6% QZ VLTS 2%. 60°, 80° c.a. Crackles generally ||.	2%	m	S			6%				
317.3	325.03		QTZN	Alternately silicified and sericite altered ash Tuff. PY 10%. VLTS 5% 30° 45° & 80° c.a. Tension VLTS, 1mm, common toward BTM, frequent.										
325.03	326.05		QTVZ	Series of strgrs and gash features @ Top BTM is QZ matrix BRXX w̄ block silicified. dip probably 60° c.a. 6% PY	60%	i	m			6%				

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/z	Ag o/z	M A
4697	271.0	273.0	2.0	0.012	0.13	
4698	273.0	275.0	2.0	0.017	0.13	
4699	275.0	277.0	2.0	0.021	0.10	
4700	277.0	279.0	2.0	0.012	0.18	
4701	279.0	281.0	2.0	0.015	0.19	
4702	281.0	283.0	2.0	0.017	0.21	
4703	283.0	285.0	2.0	0.016	0.09	
4704	285.0	287.0	2.0	0.005	0.19	
4705	287.0	289.0	2.0	0.013	0.16	
4706	289.0	291.0	2.0	0.010	0.15	
4707	291.0	293.0	2.0	0.014	0.10	
4708	293.0	295.0	2.0	0.063	0.16	
4709	295.0	297.0	2.0	0.110	0.24	
4710	297.0	299.0	2.0	0.020	0.12	
4711	299.0	301.0	2.0	0.300	0.19	
4712	301.0	303.0	2.0	0.045	0.17	
4713	303.0	305.0	2.0	0.039	0.13	
4714	305.0	307.0	2.0	0.023	0.13	
4715	307.0	309.0	2.0	0.027	0.14	
4716	309.0	311.0	2.0	0.045	0.18	
4717	311.0	313.0	2.0	0.029	0.16	
4718	313.0	315.0	2.0	0.021	0.18	
4719	315.0	317.0	2.0	0.031	0.16	
4720	317.0	319.0	2.0	0.015	0.12	
4721	319.0	321.0	2.0	0.021	0.21	
4722	321.0	323.0	2.0	0.068	1.22	
4723	323.0	325.03	2.03	0.185	4.16	
4724	325.03	326.05	1.02	0.012	0.29	

Specify ft or m.

HOLE NUMBER 490-449 SHEET 15 of 16

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr
326.05	343.08		ANLT	Sericite altered Lapilli Tuff. Soft PY 7% as fine dust. Light gray green color. 1% VLTS. Largely carbonate fill. 30° 50° c.a. 70° c.a. toward BTM. 335.76 - 336.38 Vein 40° c.a. 20% Tuff inclusions Barren. Late CB FRC fill. - m. 326.4 4.5 cm DYK 40° c.a. Argillic alteration - extreme 336. Below 336.0 intermittent silicification.	1%	N	S		W	7%				
343.08	345.35		QTZN	90% Bleached, silicified - intense - altered Tuff. 10% QZ VLT 70° c.a. & irregular. PY filled crackle parallel. 343.8 - 344.37 Argillic & QZ ALT mixed - cogenetic or overprint?? PY 4%. Some as dust, most in crackle.	10%	S	W		L	6%				
345.35	353.68		QTVN	Vein BRXX. Altered Tuff blocks in QZ matrix. Block alteration varies. Some silicified, bleached hard - partly digested. Others soft argillic altered. Vein QZ 80%. Top CNT 40° c.a. guess. irreg. Structural fabric dominantly flat to core axis. But strong VLTS suggest 45° strength PY 4%. Minor supergene leaching evident. 346.04 2 cm Brown earthy clay grit. open to surface?	80%	i			L	4%				

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MAP Ag o/t
4725	326.05	328.0	1.95	0.038	0.18	
4726	328.0	330.0	2.0	0.010	0.10	
4727	330.0	332.0	2.0	0.007	0.16	
4728	332.0	334.0	2.0	0.027	0.24	
4729	334.0	335.76	1.76	0.020	0.31	
4730	335.76	336.38	0.62	0.008	0.19	
4731	336.38	338.0	1.62	0.013	0.24	
4732	338.0	340.0	2.0	0.015	0.47	
4733	340.0	342.0	2.0	0.025	0.58	
4734	342.0	344.0	2.0	0.015	0.42	
4735	344.0	346.0	2.0	0.032	1.09	
4736	346.0	347.0	1.0	0.011	1.85	
4737	347.0	348.0	1.0	0.011	0.68	
4738	348.0	349.0	1.0	0.009	0.42	
4739	349.0	350.0	1.0	0.007	0.38	
4740	350.0	351.0	1.0	0.019	0.66	
4741	351.0	352.0	1.0	0.405	9.43	
4742	352.0	353.68	1.68	0.139	7.59	

HOLE NUMBER 490-449 SHEET 16 of 16

Specify ft. or m.

INTERVAL FROM	INTERVAL TO	RECOVERY	ROCK TYPE	DESCRIPTION
353.68	370.13		PFPP	One feldspar porphyry. Subhedral lath shaped plagioclase. 2-4mm phenocrysts. Phenocrysts and groundmass intensely seridite altered. Py 4% occurs as very fine dust. 1% Qz-CB VLTS 35° & 80° c.a. Weakly schistose @ 80° c.a.
				370.13 T.D.
				Drill String Squeeze pressure began below BT Creek remained thruout drilling.
				Water flow stablizes @ 30 gpm.

ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au o/t	Ag o/t	MAP Ag o/t
										4743	353.68	355.18	1.50	0.023	0.42	
										4744	355.18	357.13	1.95	0.013	0.29	
										4745	368.84	370.13	1.29	0.007	0.23	