803677

Brucejack

NEWHAWK GOLD MINES

Diamond Drill Hole Record

	INCLINATION	BEARING MG
COLLAR	−65°	272°
100'	−68°	273°
200'	−68°	271°
300'	−68°	270°

PROPERTY: Brucejack
LOCATION: West zone "4E"
ELEVATION: 1380.46
CO-ORDINATES: 5069.15 S 3259.33 E
LENGTH 1123 Feet 342.3 Meters

SECTION: I 51+00 S
HOR. COMP: VERT. COMP.:
BEARING: 272°
STARTED: COMPLETED: Sept 13 88
CORE SIZE: BQ RECOVERY: 100%

HOLE No. S88-285
Sheet: 1 of 3
LOGGED BY: Verain
SAMPLED BY: George

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	REASSAYS Au oz/t	Ag oz/t
	16 (4.88)			Casing																		
	22 (6.71)		PPFP	lt-mod grey; mod Si, wk ser alt; ~5% py, lt-ly oxidized (mostly along frac) w/ lt orange FeOx																		
	227 (69.19)		ANTF	mod greenish-grey; mod Si, wk ser alt, v. minor chlor alt; py ~5-10%; phenos generally parallel trk fabric & frac & qtz vns ~30°-45° to C.A.; local variations of pheno density & size																		
				Fault/Frac zones @ 82' (24.99)																		
				94' (?) (28.65)																		
				262' (79.86)																		
				263' (80.16)																		
				qtz vns v. wk & usually w/ calc (up to 30% of vn)																		
				Boring Rock																		
				168.5-170': Andesitic lithic tuff (51.36-51.82)																		
			(64.62-65.23)	212-214' & Fn grn aphanitic dike w/ mod Si &																		
			(68.43-68.73)	224.5-225.5) wk ser & chlor alt.																		
	395 (120.40)		PPFP (ANXT)	or just Crystal Tuff; mod greenish grey; mod Si; wk ser w/ minor chlor alt; ~5% py; rare fabric & frac & qtz vns (~30° to C.A.); calc w/ qtz vns (up to 30%)																		

R. V. KIRKHAM

QTDX QTZN, QTVN

NEWHAWK GOLD MINES

Diamond Drill Hole Record

	INCLINATION	BEARING M.G.
~~COLLAR~~		
400'	-67°	269
500	-67	267
600	-69	264

PROPERTY: UTC Vein
LOCATION:
ELEVATION:
CO-ORDINATES: S E
LENGTH Feet Meters

SECTION:
HOR. COMP: VERT. COMP:
BEARING:
STARTED: COMPLETED:
CORE SIZE: RECOVERY:

HOLE No. S88-285
Sheet: 2 of 3
LOGGED BY: Vergin
SAMPLED BY:

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION
39.5	830 (252.98)			(Andesitic or Dacitic) Crystal Tuff; mod-rev; v.wk to wk ser. alt; mod Si; lithic frags/clasts ~2% of total. py ~10%; Rock fabric, frags; qtz vns all @ ~30° to C.A.; crystal size & density range from ash to lapilli and from occasional to crowded; calc occurs w/ virtually all qtz vns up to 30%; Cut by a few dykes;
				455.5-463.5: Dyke, mafic; up to 10% plag X's; (138.84-141.27) cut by qtz-calc vns @ 30-65° to C.A.; margins @ 30° to C.A.; green colour; wk-mod chlor alt
				577-578: Mafic Dyke, see above (175.87-176.17)
				645-648.5: Mafic Dyke, see above (196.60-197.66)
				760-830: Silicification goes from mod to st (231.65-252.98)
830	885 (269.75)			And(?) X Tuff; Zone of highly frac'd faulted rk that has been resilicified; wk-mod ser alt; tet can be seen in about 75% of the qtz vns & so can be seen occasionally.
		853-855	QTZN	
		863-866.5	QTZN	
		878-879	QTBX	
		883.25-884	QTVN	

Faults/Fracs @: 832 (253.59); 8325 (253.75); @ ~45° to C.A. on ax. 833 (253.90) w/ clay gouge; 853 (259.99) w/ clay gouge; 856-857.5 (260.91-261.37); 865-866 (263.65-263.96); 868 (264.57); 870 (265.18); 875-876 (266.7-267.0); 878-880 (267.61-268.22)

ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
60063	252.98	255.12	2.13	0.006	1.11		
60064	255.12	258.17	3.05	<0.005	0.57		
60065	258.17	261.21	3.05	0.007	0.89		
60066	261.21	262.74	1.52	0.160	31.05	UTC	
60067	262.74	264.26	1.52	1.515	34.17	.412	9.78
60068	264.26	267.31	3.05	0.010	0.53	11.0 m.	
60069	267.31	269.14	1.83	0.215	0.92		
6070	269.14	270.66	1.52	0.455	1.64		
6071	270.66	272.19	1.52	0.568	1.50		
6072	272.19	273.71	1.52	0.011	0.40		
6073	273.71	276.45	2.74	0.023	0.42		
6074	276.45	279.50	3.05	0.015	0.80		
6075	279.50	282.55	3.05	0.006	0.64		
6076	282.55	285.60	3.05	0.015	0.43		
6077	285.60	288.65	3.05	0.012	1.16		
6078	288.65	291.70	3.05	0.067	2.03		
6079	291.70	294.74	3.05	0.014	0.13		
6080	294.74	297.79	3.05	0.022	0.42	UTC	
6081	297.79	300.84	3.05	0.027	0.49		
6082	300.84	303.89	3.05	0.187	3.12	0.412	9.09
6083	303.89	306.93	3.05	0.637	5.06	6.10 m.	
6084	306.93	309.98	3.05	0.047	0.59		
6085	309.98	313.03	3.05	0.034	0.68	.141	1.53
6086	313.03	316.08	3.05	0.033	0.33	2.135 m.	
6087	316.08	319.13	3.05	0.011	0.17		
6088	319.13	322.17	3.05	0.006	0.16		
6089	322.17	325.22	3.05	0.05	0.12		
6090	325.22	328.27	3.05	0.015	0.58		
6091	328.27	331.32	3.05	0.009	0.13		

NEWHAWK GOLD MINES

Diamond Drill Hole Record

	INCLINATION	BEARING
~~COLLAR~~ 700	-69	261
800	-67	257
900	-66	258
1000	-65	258
1100	-65	260

PROPERTY:
LOCATION:
ELEVATION:
CO-ORDINATES: S E
LENGTH Feet Meters

SECTION:
HOR. COMP: VERT. COMP.:
BEARING:
STARTED: COMPLETED: -
CORE SIZE: RECOVERY:

HOLE No. 588-285
Sheet: 3 of 3
LOGGED BY: Vergin
SAMPLED BY:

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr
885	962 (293.22)			And(?) X Tuff; s+Si; mod seralt w/ minor occurences (as										
		904.5-905 QTZN		patches) of chloralt; st resilicified as										
		907.25-907.5 QTVN		above but not nearly so broken; no sp seen										
		919-927: QTZN		& only occasional tet.										
		940-941: QTBX		Frac/Faults: 898-899 (273.71-274.02)										
		946-947: QTZN 956: QTVN		906.5-907 (276.30-276.45)										
		960-960.5 QTZN		926-926.5 (282.24-282.40)										
	1007 (306.93)	966-972 QTZN		Cataclastic: And X tuff; mod-st seralt; st+Si ~75%										
		972-973.5 QTVN		of rk is qtz vn; little or no ore										
		973.5-980: QTZN												
		980-981: QTBX												
		981-985 QTZN												
1007	1070 (326.14)	985-985.5 QTVN		relatively lt Hy frac/Faulted X & lithic tuff; wk-mod										
			★	seralt & st Si; wk qtz vning; tet., sp at 1060' end										
		985.5-990: wk QTZN		1062' w/ visible Au (323.09)										
		990-998 QTBX		(323.70)										
		998-1000.5: QTZN												
		1000.5-1001.5: QTBX												
1070	1123 (342.29)	1001.5-1003: QTVN		mod qtz vning in X & lithic tuff; Hy Frac: rehealed										
				sp. at 1075' tr. tet										
		1012-1013.5: QTVN		(327.66)										
		1029: QTVN												
		1060 QTVN												
1123	1154 (351.74)	1062: QTVN		X-lithic tuff; mod Si; wk chlor. alt; ~10% py; wk										
		1075-1075.5 QTZN		qtz vning; vns. frac @ 70° to CA										
		1076.5-1077 QTVN		1144-1146: st Si, 15% py										
		1077-1080 QTZN												
		1082-1088 QTVN		EOH 1154 (351.74m)										
		1095 QTVN												
		1096.5 QTVN												
		1105-1108.5 QTZN												
		1110-1111.5 QTZN												
		1124: QTBX												
		1147-1148 QTZN												

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
6092	331.32	334.37	3.05	0.009	0.50		
6093	334.37	337.41	3.05	0.008	0.24		
6094	337.41	340.46	3.05	0.018	0.56		
6095	340.46	343.51	3.05	0.007	0.09		
6096	343.51	346.56	3.05	0.007	<0.05		
6097	346.56	348.69	2.13	0.020	<0.05		
6098	348.69	351.74	3.05	0.010	<0.05		

NEWHAWK GOLD MINES

Diamond Drill Hole Record

	INCLINATION	BEARING
COLLAR		

PROPERTY:
LOCATION:
ELEVATION:
CO-ORDINATES: S E
LENGTH Feet Meters

SECTION:
HOR. COMP: VERT. COMP.:
BEARING:
STARTED: COMPLETED: -
CORE SIZE: RECOVERY:

HOLE No. S88-285
Sheet: 4 of 4
LOGGED BY:
SAMPLED BY:

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION S88-285 Qtz vns, bx & zns	ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
				904.5-905 : QTZN (275.69-275.84) ✓		853-	855	QTZN	259.9	9-26	0.60											
				907.25-907.5 : QTVN (276.53-276.61) ✓		863-	866.5	ZN	263.0	4-26	4.11											
				919-927: ZN 280.71-282.55 ✓		878-	879	BX	267.6	1-267	7.92											
				940-941: BX 286.51-286.82 ✓		883.25-	884	VN	269.2	1-269	9.44											
				946-947: ZN 288.34-288.65 ✓																		
				956 : VN 291.39 ✓																		
				960-960.5: ZN 292.61-292.76 ✓																		
				960.6-972 : ZN 294.44-296.27 ✓																		
				972-973.5: VN 296.27-296.72 ✓																		
				973.5-980: ZN -298.70 ✓																		
				980-981: QTBX -299.0 ✓																		
				981-985: ZN -300.23 ✓																		
				985-985.5: VN -300.38 ✓																		
				985.5-990: wkZN -301.75 ✓																		
				990-998: BX -304.19 ✓																		
				998-1000.5: ZN -304.95 ✓																		
				1000.5-1001.5: BX -305.26 ✓																		
				1001.5-1003: VN -305.71 ✓																		
				1012-1013.5: VN 308.46-308.91 ✓																		
				1029: VN 313.64 ✓																		
				1060: VN 323.09 ✓																		
				1062: VN 323.70 ✓																		
				1075-1075.5 ZN 327.66-327.81 ✓																		
				1076.5-1077: VN 328.12-328.27 ✓																		
				1077-1080: ZN -329.18 ✓																		
				1082-1088: VN 329.79-331.62 ✓																		
				1095: VN 333.76 ✓																		
				1096.5: VN 334.21 ✓																		
				1105-1108.5 ZN 336.80-337.87 ✓																		
				1110-111.5: ZN 338.33-338.79 ✓																		
				1124: BX 342.60																		
				1147-1148: ZN 349.61-349.91																		