803676

Hole # 588-284

NEWHAWK GOLD MINES

Diamond Drill Hole Record

	INCLINATION	BEARING
COLLAR		

PROPERTY: Golden Alamat / Marmo
LOCATION: Ptarmigan Zone
ELEVATION: 0
CO-ORDINATES: S E
LENGTH 629 Feet Meters

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

HOLE No. 588 284
Sheet: 1 of 6
LOGGED BY:
SAMPLED BY:

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION
0	7.0'			CASING
7.0	9.5		QCVN	VEIN
2.13	2.90			White - Medium grey H 3-4
				5 Finely Banded Quartz Carb
				5% vein (Py) Banding
				35-50° Blends ± 1/2 cm
				Contact along shear @ 70°
9.5	29.		QCVN	WEAK VEIN (QCZN)
2.90	8.84			Grey - Greyguen - Grey Maroon
				White - H 3-7 Jtg. -
				aphanitic, Foliation - Wavy
				Wavy in places to weakly
				Foliated 70° @ 15', 70° @
				27'. 10-25% Py in Patches
				Stringers and disseminated
				largest Qt = vein 10cm
29	79.		ANTF	Andesite Tuff
8.84	24.08			Pale grey - Dull grey
				Maroon grey - White
				H - 3-4 jtg - aphanitic
				Texturally banded 60° @ 33'
				70° @ 65' 70° @ 78'
				Weak Veining developed
				34-36', 49-50.5
				52.0-54.5 Intensely
				Sericitized throughout 5% ±10%
				Py
79.			ANTF	Andesite Tuff
24.08				Dull grey green Dull
				grey Maroon White
				Jtg. - aphanitic

ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Ga	Tet	Pyr
							meters FROM	In meters TO	WIDTH
							2.13	3.35	1.22
							3.35	4.72	1.37
							4.72	5.79	1.37
							5.79	7.01	1.22
							7.01	8.38	1.37
							8.38	9.45	1.07
							9.45	10.67	1.22
							10.67	12.50	1.83
							12.50	14.02	1.52
							14.02	15.24	1.22
							15.24	16.76	1.52
							16.76	18.14	1.37
							18.14	19.66	1.52
							19.66	21.03	1.37
							21.03	22.56	1.52
							22.56	24.08	1.52
							24.08	25.60	1.52
							25.60	27.13	1.52
							27.13	28.65	1.52
							28.65	30.18	1.52
							30.18	31.70	1.52
							31.70	33.22	1.52
							33.22	34.75	1.52
							34.75	36.27	1.52
							36.27	37.80	1.52
							37.80	39.32	1.52
							39.32	40.84	1.52
							40.84	42.37	1.52

SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
						Scan	
5758	7.0	11.0	4.0'	0.024	0.28		0.8
5759	11.0	15.5	4.5	0.015	0.12		0.0
5760	15.5	19.0	4.5'	<0.005	<0.05		1.6
5761	19.0	23.0	4.0'	<0.005	<0.05		0.0
5762	23.0	27.5	4.5'	0.007	0.18		0.0
5763	27.5	31.0	3.5'	0.010	0.41		0.0
5764	31.0	35.0	4.0'	0.010	0.20		0.0
5765	35.0	41.0	6.0'	<0.005	<0.05		0.0
5766	41.0	46.0	5.0'	0.005	0.09		0.0
5767	46.0	50.0	4.0'	0.006	0.39		0.3
5768	50.0	55.0	5.0'	0.009	<0.05		0.5
5769	55.0	59.5	4.5'	<0.005	<0.05		0.0
5770	59.5	64.5	5.0	0.005	<0.05		0.0
5771	64.5	69.0	4.5	<0.005	<0.05		0.0
5772	69.0	74.0	5.0	0.017	<0.05		0.0
5773	74.0	79.0	5.0	0.017	<0.05		0.0
5774	79.0	84.0	5.0	<0.005	<0.05		0.0
5775	84.0	89.0	5.0	<0.005	<0.05		0.0
5776	89.0	94.0	5.0	<0.005	<0.05		1.8
5777	94.0	99.0	5.0	<0.005	<0.05		0.8
5778	99.0	104.0	5.0'	0.008	<0.05		0.0
5779	104.0	109.0	5.0	<0.005	<0.05		0.4
5780	109.0	114.0	5.0	0.006	<0.05		0.2
5781	114.0	119.0	5.0	0.014	<0.05		0.0
5782	119.0	124.0	5.0	0.013	<0.05		0.0
5783	124.0	129.0	5.0	0.022	<0.05		0.1
5784	129.0	134.0	5.0	0.008	<0.05		0.0
5785	134.0	139.0	5.0	<0.005	<0.05		0.0

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. 588-284
Sheet: 2 of 6
LOGGED BY:
SAMPLED BY:

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION
24.08	28.96			79-95 Finely Bonded. 70° @ 81', 70° @ 89', Mod-Int. Ser^d
28.96	41.76			95-137 Int. Ser^d weak foliation, 70° @ 64, 40° @ 103, 80° @ 114.
41.76	42.37			137-139 WEAK, Vein QC Sx Mod coarse grained QC. with patches of Py ± 25% Py. (Foliation 40° CA.)
42.37	49.68			139-163 Int. Ser^d Mod-Int. Py^d occasional 1cm green lenses of Sericite
49.68	57.97			163-170 Mod-Int. Sericitized ± 5% Py.
57.97	52.58			170-172.5 Dark gray fg. phenocrysts tuff, likely Sericitized Contacts sharp suggestive of chill margin may be a sill.
52.58	57.30			172.5-188 Mod-Int. Ser^d Bonded or Rudded zone bonds up to 50% Py. ± 10% Py.

ALTERATION Qv	Q	S	K	Ca	SULPHIDES Py	Sp	Cp FROM	TO	WIDTH	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
							42.37	43.89	1.52	5786	139.0	144.0	5.0	0.034	<0.05	2com	0.0
							43.89	45.41	1.52	5787	144.0	149.0	5.0	0.014	<0.05		0.0
							45.41	46.94	1.52	5788	149.0	154.0	5.0	0.006	<0.05		0.0
							46.94	48.46	1.52	5789	154.0	159.0	5.0	0.006	<0.05		0.0
							48.46	49.99	1.52	5790	159	164.	5.0	<0.005	<0.05		0.0
							49.99	51.51	1.52	5791	164	169.	5.0	0.006	<0.05		0.0
							51.51	53.04	1.52	5792	169	174	5.0				0.0
							53.04	51.97	0.46	5793	169	170.5	1.5	0.014	<0.05		0.0
							51.97	52.58	0.61	5794	170.5	172.5	2.0	<0.005	<0.05		0.0
							52.58	54.56	1.98	5795	172.5	179	6.5	0.010	<0.05		0.0
							54.56	56.08	1.52	5796	179	184	5.0	<0.005	<0.05		0.0
							56.08	57.61	1.52	5797	184	189	5.0	0.016	<0.05		0.0
							57.61	59.13	1.52	5798	189.	194	5.0	0.022	0.07		0.0
							59.13	60.66	1.52	5799	194	199	5.0	0.026	0.05		0.0
							60.66	62.18	1.52	5800	199	204	5.0	0.012	<0.05		0.0
							62.18	63.70	1.52	5801	204	209	5.0	<0.005	<0.05		0.0
							63.70	65.23	1.52	5802	209	214	5.0	<0.005	<0.05		0.0
							65.23	66.75	1.52	5803	214	219	5.0	<0.005	<0.05		0.0
							66.75	68.28	1.52	5804	219	224	5.0	<0.005	<0.05		0.0
							68.28	70.10	1.83	5805	224	230	6.0	<0.005	<0.05		0.0
							70.10	71.32	1.22	5806	230	234	4.0	0.014	0.14		0.0
							71.32	72.85	1.52	5807	234	239	5.0	<0.005	<0.05		
										5889	72.85	75.90	3.05	<0.005	<0.05		
										5890	75.90	78.94	3.05	<0.005	<0.05		
										5891	78.94	81.99	3.05	0.008	<0.05		
										5892	81.99	85.04	3.05	0.005	<0.05		
										5893	85.04	88.09	3.05	0.005	<0.05		
										5894	88.09	91.14	3.05	0.175	0.45		
										5895	91.14	94.18	3.05	0.032	0.12		
										5896	94.18	97.23	3.05	0.017	<0.05		
										5897	97.23	100.28	3.05	0.049	<0.05		
										5898	100.28	103.33	3.05	0.031	<0.05		

NEWHAWK GOLD MINES

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LENGTH Feet Meters

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

HOLE No. S88-284
Sheet: 3. of 6
LOGGED BY: N
SAMPLED BY:

INTERVAL (Specify ft. or m.) From	To	RECOVERY	ROCK TYPE	DESCRIPTION
57.30	59.44			188 - 195 Int Serp Mod. Banded. ± 5% Py Banded 60 - 70°.
59.44	60.05			195 - 197 Int Ser. Mod Sil'd. ±15% Py.
60.05	72.85			197 - 232 Mod - Int Serp Mod Banded. - 60° @ 212 - 60° @ 225 50° @ 235 Patches stringers and disseminated py at ±15% Some Pl stringers bands may be chlorite coming in. 1-2% QC. stringers

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

SAMPLE No.	FROM meters	TO in meters	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
5899	103.33	106.38	3.05	0.015	<0.05		
5900	106.38	109.42	3.05	<0.005	<0.05		
5901	109.42	112.47	3.05	0.015	<0.05		
5902	112.47	115.52	3.05	0.011	0.17		
5903	115.52	118.57	3.05	0.005	0.06		
5904	118.57	121.62	3.05	0.010	<0.05		
5905	121.62	124.66	3.05	0.007	<0.05		
5906	124.66	127.71	3.05	0.101	0.41		
5907	127.71	130.76	3.05	0.016	0.11		
5908	130.76	133.81	3.05	<0.005	<0.05		
5909	133.81	136.86	3.05	0.009	<0.05		
5910	136.86	138.38	1.52	0.006	<0.05		
5911	138.38	139.90	1.52	0.005	<0.05		
5912	139.90	142.95	3.05	<0.005	<0.05		
5913	142.95	146.00	3.05	0.006	<0.05		
5914	146.00	149.05	3.05	0.009	0.15		
5915	149.05	152.10	3.05	<0.005	<0.05		
5916	152.10	155.14	3.05	<0.005	<0.05		
5917	155.14	158.19	3.05	<0.005	<0.05		
5918	158.19	161.24	3.05	<0.005	<0.05		
5919	161.24	164.29	3.05	<0.005	<0.05		
5920	164.29	167.34	3.05	<0.005	0.07		
5921	167.34	170.38	3.05	0.006	<0.05		
5922	170.38	173.43	3.05	0.005	0.05		
5923	173.43	176.48	3.05	<0.005	<0.05		
5924	176.48	178.00	1.52	0.009	<0.05		
5925	178.00	180.14	2.13	<0.005	<0.05		

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HOLE No. DDH S88-284
Sheet: 4 of 6
LOGGED BY:
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	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au oz/t	Ag oz/t	REASSAYS Au oz/t	Ag oz/t
240	309		ANTF	dk green, mod-st Si, mod ser.; Ca & Ca-qtz vns & vnlts																		
73.15	94.18			throughout running from 50-80° to CA; also the																		
				trend of relict clasts; occ. zone of ore min^{ls} (sp, gal																		
				tet and v. minor chal. generally in steeper vns (25-35°)																		
				to CA) & with less calcite and more qtz in the vns.;																		
				py 10-15%, <5% of py as diss. and the rest dominately																		
				in and around clasts; the more steeply dipping vns generally																		
				have lt green (more intense ser alt) altered rk in and																		
				around them (Faults?); py where alt. going to hematite																		
79.86	80.01			262-262.5: Qtz (w/minor calc) bx zone; frac																		
				still mod silf ser; tet min^{ls} ~2%; zone																		
				at 30° CA																		
89.46	89.61			293.5-294': 12cm qtz (v. minor calc) vn; w/clay																		
				gouge																		
92.66	92.81			304-304.5': 3.5cm qtz (v. minor calc) vn @ 25-35 CA																		
				w/sp, tet, gal, chal.;																		
309	381.5			med grey-green; mod-st Si, mod ser (generally more																		
94.18	116.28			intense w/st Si); ~50% of the number of calc & qtz-calc																		
				vns & vnlts as above; vnlts run from 30°-90° CA but the																		
				general trend of the fabric of the rk is ~45°-50° CA;																		
				shears & faults (?) run at ~30° CA; py overall is 5-10%																		
				w/most py assoc w/relict clasts (?); chlor alt w/depth																		
95.71	96.62			314-317: st Si & ser alt; highly frac; qtz vn (~2.5cm)																		
				at base; no ore min^{ls}																		

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HOLE No. DDH S88-284
Sheet: 5 of 6
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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
104.85	105.00			344-344.5: 3cm qtz vn (v. minor calc) w/ sp, gal-tet, chal.;																		
107.44	107.59			352.5-353: zone of intense ser. mod Si; Calc-qtz vn at top; clayey gouge																		
[illegible].90	116.28			354-381.5: clots & blebs of py increase in size																		
				370: chlor dominate over ser alt.																		
381.5 / 116.28	427 / 130.15			It grey-green hi Si; increasing chlor w/ depth; total py 5-10% upper part of section show general trend of 90° to CA & lower down it gets back down to 45°-50°; also the lower section does not show consistant intense ser. but only spots of it; in the lower zone calc & qtz-calc vns & vnlts pick up again to a amount equal at the top of the hole;																		
116.28	118.57			381.5-389: zone of most consistant high chlor-stg qtz alt. & Calc-qtz vns up to 2.5cm wide; vnlts are generally 80+% calc. & are 80-90° CA																		
118.57	130.15			389-427: Fracs & vns tend to 45°-50° CA & lose all sericite(?); py up to 10% overall w/ some sections up to 20%																		
427 / 130.15	589 / 179.53		ANLT	dk grey-green w/ some pce reddish cast from FeOx. well defined lapilli; mod sil (except w/ intense chlor then with wk-mod Si); virtually all alt is chlor; py ~10% as stringers & blebs, stringers running at ~45° to CA; no ore minr; fracs																		

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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
				and faults at 30-50° to C.A.; Rk becomes a																		
				darker green w/depth; v.v. minor calc w/qtz vns																		
	138.07			453 Fault																		
	145.69			478 "																		
	154.53			507 "																		
	155.75			511 " w/definite chloritic alt																		
	165.81			544 " w/qtz vn at 5-10° to C.A.																		
	158.50			520 " w/qtz vn																		
				E.O.H. @ 589' (179.53m)																		