BOLT PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		445880	6819790	1470	93.27

ZONE:

SECTION:

HOLE: BOLT-10-06

CLAIM: Bolt 5 YC73902

Contractor: Top Rank Diamond Drilling Ltd

Drill: JKS-300

Core size: NTW & BTW

Casing depth: 4.88 (m) in / out

Drilling dates: August 2nd to August 4th, 2010

Geology logged by: Oliver Fu

TARGET:

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	70	-45.0	compass				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	4.88	4.88	OVB	Overburden.
4.88	9.45	4.57	ULT	Ultramafic.
9.45	30.78	21.33	BXA	Moderatley altered heterolithic breccia.
30.78	50.60	19.82	BXA	Weakly altered heterolithic breccia.
50.60	65.84	15.24	BXA	Jasper altered breccia.
65.84	76.50	10.66	BXA/ULT	Interbedded breccia and ultramafic.
76.50	77.80	1.30	BXA	Altered contact between breccia and ultramafic.
77.80	99.00	21.20	BXA	Heterolithic breccia.
99.00	112.05	13.05	ULT	Ultramafic.
EOH				

SAMPLES

Numbers: J981605 to J981622

Total: 18

Batch: 4

Date Sent:

Certificate: WH10156633

COMMENTS

GEOLOGY LOG

HOLE: BOLT-10-06

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca	Attitude (tfa	Density (frequency/	Oxidation	Jasper	Epidote		Type	Intensity	Pyrite			Type	Intensity	Type	Intensity		
0.00	4.88	4.88				OVB																					Overburden. 30 cm of jasper altered green breccia and ultramafic recovered.
4.88	9.45	4.57				ULT											CAR	m									Black, non-magnetic ultramafic with white, cross-cutting, carbonaceous stringers. Very poor recovery.
			6.95	9.45	2.50												CAR	w									Transition to a bleached, and altered leucogabbro(?). Weakly foliated with cross-cutting white-beige carbonate veins between 1 to 11 mm wide. Very poor recovery.
9.45	30.78	21.33				BXA							w				SER	m									Light purplish-grey, hard, heterolithic breccia. Not a clear-cut breccia. Clasts are light tan to dark green, slightly crackled, angular to subrounded, poorly sorted, and range in size between 0.2 to 3 cm. Brownish-yellow sericite alteration is common on fractured surfaces, and locally intense. Clay altered zones are soft and granular. Turquoise-blue alteration is common on clasts and interstitially. Bright reddish-orange rusty specs are scattered throughout and mainly on fractures surfaces (oxidized sulfides?). Weak remnant flow textures are still visible (16.8 m). Black infilled, soft tension gashes are scattered throughout, and range in size between 3 to 15 mm long. Black manganese staining occurs along fractured surfaces. Grape-like clusters of minerals (?) occur throughout - as seen at the top of hold Bolt-10-05.
																	CLY	w									
																	CHL	w									
			26.05	30.78	4.73																						Intensely chloritized and clay altered zone. The matrix has been altered to chlorite and calcite. Crystalline calcite is interstitial. Silicified clasts have undergone little alteration, although a greenish chloritic halo occurs along their borders. Soft black tension gashes are abundant and range in size between 1 to 10 cm. Note: Based on calcite veining, and a weak, clay altered foliation. Possibly drilling down dip.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							PHOTO	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca	Attitude (tfa	Density (frequency/	Oxidation	Jasper	Epidote		Type	Intensity	Pyrite			Type	Intensity	Type	Intensity		
30.78	50.60	19.82				BXA									s		CHL	m									Very competent zone showing 'epidote fluid migration textures'. This interval is the weakly altered and the brecciated equivalent of the top of the hole (9.45-26.05 m). Local zones are strongly epidote altered and have a light pink, potassic altered colour. Black manganese and yellowish-brown sericite alteration are common on fractured surfaces. White, coarse grained, crystalline calcite occurs randomly along fractures. Local chlorite pulses have chloritized most clasts. The entire zone is hard, and moderately silicified.
																	SIL	m									
																	CAR	w									
																	SER	w									
50.60	65.84	15.24				BXA								s	s		SIL	m									Light to dark green, jasper altered breccia. Dark maroon to brown jasper, and green epidote alteration are pervasive and breaking apart the unit. Pyrite is fine grained and weakly disseminated throughout.
																	K	t									
			55.37	58.37	3.00																						White crystalline veins cross-cut the unit, and range in size between 1 to 5 cm. White coarse grained crystalline calcite is scattered throughout.
			58.37	65.84	7.47									s	s		SIL	m									Jasper and epidote alteration increase to strong, locally intense. Pervasive epidote occurs alongside jasper altered zones. Strongly epidote altered zones have a light pink, potassic overprint. Light brown, soft, clay-like mineral occurs along numerous fractured surfaces (?). White, cross-cutting carbonate veins range in size between 2 to 3 mm. Note: This type of alteration was common throughout holes Bolt-10-01 to 04.
																	CAR	w									
																	K	t									

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							PHOTO	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca	Attitude (tfa	Density (frequency/	Oxidation	Jasper	Epidote		Type	Intensity	Pyrite			Type	Intensity	Type	Intensity		
65.84	76.50	10.66				ULT											CAR	m									Dark green to black, moderately to strongly magnetic ultramafic. White, calcite veins are abundant and resemble a weak stockwork with veins ranging in size between 1 to 5 mm. White, fibrous asbestos crystals occur along few fractured surfaces. Locally, weakly serpentinized. Dark red-maroon, jasper alteration occurs throughout. Locally serpentinized. Chlorite alteration slightly intensifies with depth.
																	CHL	w									
			65.84	69.65	3.81												CLY	i									Rubbly and intensely clay altered zone. Granular with numerous slickensides.
76.50	77.80	1.30				BXA											CLY	i									Soft, light green, contact between the green volcanic breccia and the ultramafic unit. Yellowish tan to brown sericite alteration is common on fractures surfaces.
77.80	99.00	21.20				BXA											CHL	m									Medium to dark green, moderately soft, heterolithic breccia. Clasts are poorly sorted, angular to subrounded and range in size between 0.2 to 3 cm. Mainly matrix sorted with few clast supported zones. Dark green to black tension gashes are common. Remnant foliation is still visible.
			87.80	93.65	5.85									m													Few reddish-maroon jasperitic alteration pulses overprint the unit.
			96.00	99.00	3.00																						Interfingering of the ultramafic and green volcanic breccia.
99.00	112.05	13.05				ULT											CLY	s									Dark green to black, magnetic ultramafic with numerous carbonate veinlets. Veinlets range in size between 1 to 10 mm and resemble a weak stockwork. Few zones have undergone intense clay alteration. Weakly serpentinized along fractures.
EOH																											

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

Sample Log

Hole: BOLT-10-06

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Comments
9.45	12.50	3.05	2.75	90	J981605	4	<0.005	<0.2	54	<2	53	
9.45	12.50	3.05	2.75	90	J981606	4	<0.005	<0.2	53	<2	50	Duplicate
12.50	15.54	3.04	2.62	86	J981607	4	<0.005	0.3	53	<2	56	
15.54	18.59	3.05	2.50	82	J981608	4	<0.005	<0.2	51	<2	47	
18.59	21.64	3.05	2.80	92	J981609	4	<0.005	<0.2	52	<2	46	
-	-	-	-	-	J981610	4	<0.005	<0.2	3	5	15	Blank
21.64	24.69	3.05	2.90	95	J981611	4	<0.005	<0.2	57	<2	40	
24.69	27.74	3.05	3.05	100	J981612	4	<0.005	<0.2	51	<2	50	
27.74	31.00	3.26	3.04	93	J981613	4	<0.005	<0.2	45	<2	52	
31.00	33.83	2.83	2.83	100	J981614	4	<0.005	<0.2	62	<2	65	
33.83	36.88	3.05	3.05	100	J981615	4	<0.005	<0.2	63	<2	55	
50.60	53.64	3.04	3.00	99	J981616	4	<0.005	<0.2	52	<2	57	
-	-	-	-	-	J981617	4	0.234	149.0	2550	48800	51400	Standard CDN-ME-7
53.64	55.17	1.53	3.00	196	J981618	4	<0.005	<0.2	54	<2	75	
55.17	56.69	1.52	1.52	100	J981619	4	<0.005	<0.2	27	14	59	
56.69	59.74	3.05	3.05	100	J981620	4	<0.005	<0.2	52	5	80	
59.74	62.79	3.05	3.00	98	J981621	4	<0.005	<0.2	59	5	105	
87.17	90.22	3.05	3.05	100	J981622	4	<0.005	<0.2	41	5	40	

GEOTECHNICAL LOG

HOLE: BOLT-10-06

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
4.88	6.40	1.52	0.40	26	0	0		MW	
6.40	7.92	1.52	1.00	66	0.17	11		SW	
7.92	9.45	1.53	0.28	18	0.23	15		SW	
9.45	10.97	1.52	1.52	100	0.50	33		FR	
10.97	12.50	1.53	1.53	100	0.77	50		FR	
12.50	14.02	1.52	1.46	96	0.75	49		FR	
14.02	15.54	1.52	1.22	80	0.12	8		SW	
15.54	17.07	1.53	1.21	79	0.16	10		SW	
17.07	18.59	1.52	1.37	90	0.33	22		SW	
18.59	20.12	1.53	1.15	75	0.29	19		SW	
20.12	21.64	1.52	1.34	88	0.00	0		MW	
21.64	23.16	1.52	1.46	96	0.49	32		SW	
23.16	24.69	1.53	1.22	80	0.26	17		SW	
24.69	26.21	1.52	1.20	79	0.31	20		SW	
26.21	27.74	1.53	1.40	92	0.88	58		FR	
27.74	29.26	1.52	1.42	93	0.44	29		MW	
29.26	30.78	1.52	1.45	95	1.09	72		SW	
30.78	32.31	1.53	1.38	90	1.12	73		FR	
32.31	33.83	1.52	1.45	95	1.34	88		FR	
33.83	35.36	1.53	1.51	99	1.51	99		FR	
35.36	36.88	1.52	1.46	96	1.12	74		FR	
36.88	38.40	1.52	1.44	95	1.20	79		FR	
38.40	39.93	1.53	1.30	85	0.88	58		FR	
39.93	41.45	1.52	1.33	87	0.63	41		FR	
41.45	42.98	1.53	1.42	93	0.95	62		FR	
42.98	44.50	1.52	1.47	97	1.27	84		FR	
44.50	46.02	1.52	1.37	90	1.04	68		FR	
46.02	47.55	1.53	1.49	97	1.42	93		FR	
47.55	49.07	1.52	1.17	77	0.14	9		SW	
49.07	50.60	1.53	1.37	90	0.52	34		FR	
50.60	52.12	1.52	1.45	95	0.34	22		SW	
52.12	53.64	1.52	1.28	84	0.38	25		SW	
53.64	55.17	1.53	1.41	92	0.27	18		SW	
55.17	56.69	1.52	1.52	100	1.41	93		SW	
56.69	58.22	1.53	1.45	95	0.65	42		SW	
58.22	59.74	1.52	1.37	90	0.72	47		SW	
59.74	61.26	1.52	1.45	95	0.72	47		SW	
61.62	62.79	1.17	1.40	120	0.00	0		SW	
62.79	64.31	1.52	1.37	90	0.00	0		SW	
64.31	65.84	1.53	1.10	72	0.00	0		SW	
65.84	67.36	1.52	0.45	30	0.00	0		HW	
67.36	68.88	1.52	0.72	47	0.00	0		HW	
68.88	70.40	1.52	1.52	100	0.40	26		MW	
70.40	71.93	1.53	1.43	93	0.20	13		SW	
71.93	73.46	1.53	1.36	89	0.42	27		SW	
73.46	74.98	1.52	1.39	91	0.58	38		SW	
74.98	76.50	1.52	1.47	97	1.21	80		SW	
76.50	78.03	1.53	1.41	92	0.51	33		SW	
78.03	79.55	1.52	1.49	98	0.79	52		FR	
79.55	81.08	1.53	1.53	100	1.24	81		FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
81.08	84.12	3.04	2.65	87	1.17	38		FR	Switch to BTW rods (10')
84.12	87.17	3.05	3.55	116	3.07	101		FR	
87.17	90.22	3.05	2.94	96	2.52	83		FR	
90.22	93.27	3.05	2.97	97	1.46	48		FR	
93.27	96.32	3.05	3.14	103	2.83	93		FR	
96.32	99.36	3.04	2.63	87	1.63	54		FR	
99.36	102.41	3.05	1.20	39	0.00	0		MW	
102.41	105.46	3.05	2.00	66	0.43	14		MW	
105.46	108.51	3.05	2.46	81	1.14	37		SW	
108.51	111.56	3.05	2.57	84	0.74	24		MW	112.50 end of rock (2m of cave after)
EOH									

MAGNETIC SUSCEPTIBILITY LOG

HOLE: BOLT-10-06

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			N/A	
2.00			N/A	
3.00			N/A	
4.00			N/A	
5.00			0.42	
6.00			0.58	
7.00			0.54	
8.00			0.42	
9.00			0.43	
10.00			0.60	
11.00			0.65	
12.00			0.60	
13.00			0.71	
14.00			0.75	
15.00			0.47	
16.00			0.47	
17.00			0.69	
18.00			0.64	
19.00			0.56	
20.00			0.47	
21.00			0.47	
22.00			0.58	
23.00			0.40	
24.00			0.42	
25.00			0.45	
26.00			0.53	
27.00			0.58	
28.00			0.34	
29.00			0.58	
30.00			0.38	
31.00			0.80	
32.00			0.69	
33.00			1.20	
34.00			0.96	
35.00			0.67	
36.00			0.84	
37.00			0.67	
38.00			0.71	
39.00			0.73	
40.00			0.73	
41.00			0.58	
42.00			1.33	
43.00			0.84	
44.00			0.78	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.58	
46.00			0.64	
47.00			0.75	
48.00			0.53	
49.00			0.60	
50.00			0.49	
51.00			0.51	
52.00			0.67	
53.00			0.60	
54.00			0.73	
55.00			0.87	
56.00			0.43	
57.00			0.47	
58.00			0.65	
59.00			0.51	
60.00			0.58	
61.00			0.73	
62.00			1.00	
63.00			0.80	
64.00			2.03	
65.00			1.33	
66.00			54.40	
67.00			7.41	
68.00			15.60	
69.00			12.20	
70.00			43.10	
71.00			45.60	
72.00			0.45	
73.00			30.90	
74.00			72.80	
75.00			3.64	
76.00			19.80	
77.00			0.32	
78.00			0.62	
79.00			1.33	
80.00			1.06	
81.00			1.02	
82.00			2.19	
83.00			0.36	
84.00			0.95	
85.00			1.40	
86.00			5.96	
87.00			0.98	
88.00			19.60	
89.00			1.66	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
90.00			7.00	
91.00			37.60	
92.00			4.44	
93.00			22.80	
94.00			72.60	
95.00			3.33	
96.00			0.53	
97.00			0.34	
98.00			0.49	
99.00			8.49	
100.00			15.60	
101.00			6.24	
102.00			43.90	
103.00			36.20	
104.00			2.41	
105.00			0.75	
106.00			21.70	
107.00			29.70	
108.00			65.60	
109.00			18.80	
110.00			44.10	
111.00			48.80	
112.00			46.10	
EOH				

BOX LOG

HOLE: BOLT-10-06

BOX	FROM (m)	TO (m)
1	4.50	10.45
2	10.45	14.55
3	14.55	18.52
4	18.52	22.60
5	22.60	26.75
6	26.75	30.78
7	30.78	35.00
8	35.00	38.82
9	38.82	42.98
10	42.98	47.06
11	47.06	51.25
12	51.25	55.09
13	55.09	58.75
14	58.75	62.65
15	62.65	68.48
16	68.48	72.00
17	72.00	76.20
18	76.20	80.35
19	80.35	81.55
20	81.55	87.00
21	87.00	92.60
22	92.60	97.85
23	97.85	106.15
24	106.15	112.05
EOH		