BOLT PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
4+75E	8+00N	446196	6819598	1525	63.03

ZONE:

SECTION:

HOLE: BOLT-10-01

CLAIM: Bolt 3 YC73900

Contractor: Top Rank Diamond Drilling Ltd

Drill: JKS-300

Core size: NTW

Casing depth: 5.30 (m) in / out

Drilling dates: July 17th to July 19th, 2010

Geology logged by: Oliver Fu

SURVEY

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

TARGET:

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	5.30	5.30	OVB	Overburden
5.30	32.25	26.95	BXA	Oxidized heterolithic breccia
32.25	39.18	6.93	CHT	Altered chert
39.18	55.16	15.98	CHT	Altered chert interbedded layers of intensely jasper and epidote altered breccia
55.16	63.03	7.87	ULT	Serpentinized ultramafic
EOH				

SAMPLES

Numbers: J981479 to J981511

Total: 33

Batch: 1

Date Sent: October 15, 2010

Certificate: WH10150448

COMMENTS

GEOLOGY LOG

HOLE: BOLT-10-01

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	5.30	5.30				CAS																					Casing. 20 cm of rubbly pebbles recovered
5.30	32.25	26.95				BXA							s		m				w			Li	s				Medium to dark chlorite green, poorly sorted, strong to intensely oxidized, heterolithic breccia. Limonite is abundant on fractured surfaces. Local manganese staining occurs alongside limonitic fractures. Fractured surfaces have undergone strong oxidation, locally pervasive. Intensely oxidized zones are soft and composed of rubble. Lithic fragments vary in colour between light tan to dark green and white, they are angular to subrounded, and range in size between 0.2 to 3 cm. Pyrite is fine grained and weakly to moderately disseminated throughout. Occasionally occurs on clasts. Unit is mainly matrix supported, the matrix has been chlorite and epidote altered. Locally clast supported. Epidote alteration is subtle and mainly interstitial between clasts. Dark green to black, soft tension gashes are scattered throughout the interval possibly of chloritic composition(?).
			16.40	16.85	0.45								i									Li	s	Mc	t		Crumbly, heterolithic rubble. Pervasive oxidation. Few fine grained, rubbly, bright green malachite crystals on oxidized fragments.
			18.05	32.25	14.20	BXA							s	s	m							Li	s	Mc	t		Dark maroon-brown, pervasive jasper altered breccia. Sharp upper and lower contacts. Oxidation and limonite alteration are strong. Local intensely oxidized rubbly sections. Thick limonite coating occurs on most fractured surfaces. Remnant fragments are cryptic and have been altered and deformed. Pervasive epidote alteration occurs 'in sync' with jasper alteration. The overall brecciated texture has been altered. Hematitic whisps occur through and range in size between 1 to 2 mm. Few malachite patches occur on very rusty broken surfaces, and range in size between 2-4 mm.
			26.10	27.94	1.84	BXA									s		CLY	m									Moderate clay and strong epidote alteration. Light pink overprint, potassic alteration(?).
																	K	w									

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		
			28.67	30.78	2.11	BXA							s		s		CLY	m									Intensely altered breccia. Potassic and epidote 'fluid pulses/migration textures" are observed in this zone. Clasts have been completely altered and deformed. Quartz whisps appear on few remnant clasts. Unit is hard and silicified. Moderate clay and strong epidote alteration. Light pink overprint, potassic alteration.
																	K	w									
																	SIL	s									
			29.60	30.20	0.60								i									Li	s				Crumbly, heterolithic rubble. Pervasive oxidation.
			30.78	31.95	1.17								i									Li	s				
32.25	39.18	6.93				CHT							s	m	w		SIL	s	t								Deep to light maroon with a pinkish tinge, altered chert. White quartz tension gashes and quartz veins are abundant and resemble a stockwork. A scintery black coating occurs alongside hematite and oxidized fractured surfaces. Fine grained pyrite occurs locally and overprints tension gashes. In few areas jasper has filled voids and seams in quartz veins and occurs within the white matrix.
39.18	55.16	15.98				CHT							m	m	m		SIL	m									Maroon, aphanitic chert with numerous light tan to beige stringers, and interbedded layers of intensely jasper and epidote altered breccia.
			39.64	39.92	0.28	CHT																GYP	t				Light tan to beige, fine grained, crystalline gypsum rosettes occur along a fractured surface. An 8 mm, subhedral chalcopyrite occurs alongside the rosettes border.
																						CPY	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		
			40.00	55.16	15.16	CHT							m	m	m		CAR	w									Dark chlorite green breccia interbedded with maroor chert. These units show numerous signs of interfingering and cross-cutting relationships. The brecciated sections is moderately oxidized and contains few clay altered, crumbly zones. Most clasts have been altered. Jasper overprints onto most areas in this interval. White semi-crystalline calcite veins are between 1 to 3 mm and occur on few fractures. A black scintery mineral (manganese?) occurs alongside oxidized surfaces. Intense epidote pulses occur in sync with potassic altered zones. These altered zones are quartz flooded, and contain randomly oriented quartz veins Maroon cherty zones contain dark red whisps and quartz veins. Weakly oxidized with carbonate on few fractured surfaces. Chert unit appears is more resilient and is significantly less altered.
																	SER	m									
55.16	56.18	1.02				RHY											CHL	s									Light green to dark green volcanic flow (RHY?) with quartz phenocrysts. Flow bands are 1 to 15 mm wide and contain 1 to 2 mm, rounded, hard quartz crystals. Tension gashes are present throughout and filled with a soft, dark green to black mineral, chlorite or ultramafic (from the ULT below)? Spotty hematite patches are between 1 to 3 mm wide and occur on fractured surfaces.
			53.80	56.18	2.38												CLY	i									Intensely clay altered volcanic flow. Primary features have been deformed, altered and are barely recognizable. Carbonate coated fractures and stringers are abundant.
																	CAR	s									
56.18	63.03	6.85				ULT											CHL	s									Dark green, granular, locally competent, intensely clay altered, serpentinized, magnetic ultramafic. Carbonate stringers and veins are abundant, and strongly effervesce. Clay alteration is pervasive. Few slickensides. Dark red, mushy hematitic patches are common.
																	CLY	i									
																	CAR	s									

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		
			58.51	59.51	1.00	CHT							s		m		CAR	i									Maroon chert with cross-cutting carbonate stringers and veins (up to 8 cm wide). Unit appears to be in the preliminary stages to deformation. Numerous chert fragments occur within and alongside veins. Semi-crystalline epidote vein occurs within this interval Oxidized surfaces are common and abundant. Not magnetic.
EOH																											