

DRILL HOLE LOG
TIDD

Hole: TD-06-04

Zone:

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Northings: 6880928

Easting:

378035

Elevation:

Depth	
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133.2

Drilling Dates: Aug. 21 to 23, 06

Logged By: Bill/Heather

Length: 133.2m

Dip	
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45

Core Diameter: BTW

Casing Depth:

Casing: In / Out

Azimutl

345

[illegible]

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Dip 45

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Casing: In / Out

Azimuth 345

Visual Log			From	To	Interval	Unit	Description	Sulphides				Alteration				From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)									(m)	(m)	(m)	Number	(m)	%		
			11.28	12.44	1.16	PHY															
			Heavy CHL alt PHY, BRXX-BRXX. Grey QTZ veining w/ PY vnits dom and PO, PCY and SPH dissem in weak concentrations. Cutting QF range from 30 to 50 deg in opp QUAD. At 12.88m there was a 1cm thick white QTZ vein w/ SPH, CPY, GN, fol at 30 deg. Mzn QF in opp quad at 50 deg. Fracture roughly parallel to c-axis. less mzd. CH==Flk ub nzdL 25 deg, Alt contact opp quad at 45 deg.											12.44	14.66	2.22	C106156				
			12.44	16.87		PHY									14.66	15.95	1.29	C106157			
			Dom CHL-SER ALT PHY w/ moderate floods. PY and PO dom w/ isolated strongly CHL ALT zones (45 cm). Scattered SPH and isolated PY and CPY. Small areas w/ calcite veining, fol at 45 deg.											15.95	17.8	1.85	C106158				
														BLANK		BLANK	C106159				
			16.87	17.87	1	QF															
			CHL ALT QF zone w/ classic alteration. PY, PO, CPY, SPH mzn-cpy assc w/ PO and SPH dominantly w/ white QTZ material. End of interval-ghosted BRXX frags due to SER-CHL alt. 17.87 upper contact CPY and PY cohabitating in QTZ rich fractures. Definitely QTZ-Ca healed frac zones. Zones of foliaform BRXX w/ dark grey PHY clasts cemented w/ pure SER. NOTE: Saw front part of interval.											17.8	20.42	2.48	C106160				
			17.87	23.72	5.85	PHY									17.8	20.42	2.48	C106160			
			Grey-black PHY. Heavily frac and x-frac. Healed w/ QTZ vnits and lesser Ca vnits. BRXX zones all throughout small bits in isolated zones. Fine net textured PY w/ bl of PO and SPH, CPY and SPH and GN-overall weakly mineralized. Extremely silicified zones w/ SER, Black PHY. Weak to MOD SPH along fractures-intensely frac healed w/ QTZ and Ca. Py dom w/ lesser SPH along frac, irregular zones of silicification and assc. BRXX- difference is that brxx is fracture controlled-not the result of QTZ. More QTZ healed than classic QF. From 20.42m highly frac SER CEMENT w/ more QF (classic)...start to see FSP flecks.											20.42	22.72	2.3	C106161				
														22.72	23.72	1	C106162				
			23.72	25.72	2	PHY									23.72	25.72	2	C106163			
			Grey-maroon PHY and SER ALT grey PHY. Alternating near end of interval incr. In SER ALT at base. Contact w/ QF-frag contact. From Ser dom SPH and GN to CHL dome ALT w/ CPY and PO, in last 10 cm of interval.											25.72	26.67	0.95	C106164				
			25.72	27.01	1.29	QFBX									26.67	29.32	2.65	C106166			
			Strongly CHL ALT QFBX q/ strong mzn. PO, CPY, SPH 30 cm zone of semi massive PO and CPY (26.40 to 26.70). NB: White QTZ eyes seem to be later than most (not all) PO and CPY mzn. TR GN assc w/ SPH at end of interval																		
			27.01	27.55	0.54	QF									BLANK		BLANK	C106165			
			QTZ Flood w/ residual SER-PHY that has been heavily fractured. Weak to mod mzn PO, CPY, SPH isolated 3 cm zones of disseminated SPH.																		

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Casing Depth:

Casing:

In / Out Azimuth: 345

Visual Log			From	To	Interval	Unit	Description	Sulphides				Alteration				From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)											(m)	(m)	(m)	Number	(m)	%
			27.55	32.1	4.55	PHY										29.32	30.38	1.06	C106167		
			Dom Ser-PHY w. minor isolated QF w/ isolated CPY, SPH, PO. Minor calcite vntts fol at 55 deg. Fol parallel CHL ALT QF-minor. Fol shallows to 35 deg near end of interval (up to 29.32m well mzd).													30.38	30.99	0.61	C106168		
																30.99	32.21	1.22	C106169		
			32.1	33.78	1.68	PHY										32.21	33.78	1.57	C106170		
			Dom highly frac SER PHY w/ QTZ healed fractures and CPY stockwork in places. Localized CHL ALT along selvages.																		
			33.78	35.13	1.35	QF										33.78	35.23	1.45	C106171		
			Strongly CHL ALT QF. Mod to well mzd w/ PO, CPY and SPH. Disseminated throughout. DOM QTZ angle: 65 deg. And plus/minus mzn. Big CPY splash at 65 deg.													BLANK		BLANK	C106172		
			35.15	36.46	1.33	PHY										35.23	37.24	2.01	C106173		
			SER-CHL ALT PHY w. occasional QF. PY dom SX w/ orientation sub parallel to each other at 50 deg. PO and CPY in fine disseminations in the CHL ALT. Bottom of interval is dominantly SER PHY w. hairline-stockwork CHL ALT. Grey QTZ vntts w/ SPH dissemin and rare blebs. Lower contact w/ extensive QFBX zone has a very nice angle of 50 deg.																		
			36.46	38.61	2.16	QFBX										37.24	38.71	1.47	C106174		
			QFBX w/ bnrx frags of pale green-yellow SER PHY w. relict fol and minor CHL stringers. MZN w/in unit is restricted to the QTZ areas and fractures w/ in QTZ.																		
			Dom SX is PO w/ lesser CPY (TR) fine, fracture filling. NB: After initial BRXX'n occurred, later CHL RICH ALT phase flushed thru unit offsetting fol w/in SER ALT PHY frags. Lower contact can't be discerned.																		
			38.61	44.18	5.57	PHY										38.71	41.45	2.74	C106175		
			Dom rock unit is SER PHY dark to med grey w/ maroon bands. Fol at 40 deg. QTZ vntts w/ CHL ALT> Dom SX: PY, some QTZ vntts fol parallel, some x-cutting.																		
			At 40.79 for 0.57m QF zone w/ minor bnrx SX* dom PY then PO. At bottom of QF zone contact w/ SER PHY at 60-70 deg. Minor Ca veining present. Fol at 35 deg.													41.45	44.18	2.73	C106176		
			44.18	45.36	1.18	QFBX										44.18	45.48	1.3	C106177		
			Interval starts w/ 40 cm of very bnrx'd w/ a lot of CHL ALT. Then 22cm of bull white QTZ vein w/ PO dom and closely assoc CPY as clots, rims and disseminations with SPH, GN mzn typically in blebs. At 45.03m 23 cm zone of bnrx w/ PY, PO, SPH, GN-TR CPY. Qtz carbonate orange areas w/in QTZ vein.																		

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Visual Log			From (m)	To (m)	Interval (m)	Unit	Description	Sulphides					Alteration					From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %								
Visual	Struc.	(m)																													
			45.36	47.9	2.54	PHY												45.78	47.48	1.7	C106178										
							Dom grey-green PHY w. fol at 40 deg. Sub fol parallel QTZ vnits. Relict fol much shallower to core axis angles.																								
			47.9	50.06	2.16	PHY																									
							Gradual change into ALTN to more bleached, pale green-brown-yellow SER PHY. Unit is far more fissile than other PHY. Grey clay-like filling in fractures. Fractures mostly stockwork-some brown oxidation. PY dom SX. At 49.87m a 2cm band of BRXX w/ PY being the matrix compound.																								
			50.06	57.15	7.09	PHY																									
							Grey SER PHY w/ minor irregular speckles (green) v. small. Fol irregular in places but dominant at 55 deg. From 50.65m to 51.35m of QF to QFBX-CHL ALT. Main SX: PY Lower contact at 50 deg-sharp.																								
			57.15	65.65	8.5	PHY	Grey-brown-maroon-PHY weak to mod SER ALT																								
							Alteration change to very mafic (black) CHL? Alt. Speckles present at 60.05m now HBL-BIOT-not green variety-gradational upper contact. At 58.55m 3 cm of shallow (30 deg to core axis) CHL ALT QF minor blebby CPY and dissem. CPY and PO. Same QUAD as fol (oblique to fol). At 58.95m start of 95 cm QF-dom bull white QF areas of clear QTZ w/ CHL ALT PHY frags and irregular clots and disseminations of PO and minor CPY. Secondary fractures w/in QF that contain mostly PY. 58.55m to 61.00m MOD to Strong QF, some large frags have Ag- mica assc w/ them. Towards base of unit some v. strong fol overprint.																								
																		BLANK	BLANK		C106179										
							One finer at 22 deg. Opp direction, v. shallow 10 deg, opp quadrant. generally sections are much less SER and more Ag-mica rich.																								
			65.65	68.1	2.75	PHY																									
							Semi sharp ALT contact. Back into SER dom pale green PHY w/ lesser interbands of maroon and brown. Same speckled nature but now they are all alt to CHL. Good foliation angle of 55 deg. Carbonate on fractures-generally parallel to fol breaks but also x-cutting.																								
			68.1	81.92	12.52	PHY																									
							Unit change is gradational. Less SER ALT, grey-brown maroon speckled unit. More carbonate on fol parallel fractures. Dom from 74.45 to 75.80m. 35 cm white QF zone. Really mottled SER CHL ALT. PO dominant occurring as irregular clots and disseminations. Trace CPY. From base of QF zone to 75.40m highly fractured oblique at shallow angles to core axis. Sections w/in particular unit have isoclinal folding and irregular tight folds and kink banding coupled with foliation overprint likely developed as crenulation cleavages shallow to c-axis. At 77.53m INCR in clear QF, generally parallel to fol. Increase (dramatic) in SER ALT.																								

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Azimuth

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Visual Log			From	To	Interval	Unit	Description	Sulphides				Alteration				From	To	Interval	Sample	Rec.	Rec.				
Visual	Struc.	(m)	(m)	(m)	(m)									(m)	(m)	(m)	Number	(m)	%						
							At 78.63m long run of strong BULL WHITE QF-ing that carries on to 81.48m. In intire run-mod to strongly fractured with lots of carbonate on the fractures. Generally weakly mzd w/ PY and PO. Some QF very shallow angles to core axis (10 deg).																		
			81.92	111.7	38.15	PHY																			
			Pale-medium green SER PHY. Sharp contact and at contact alteration change. Pale green SER PHY. Vicinity of fol where fol at upper contact is 40 deg and fol 10 cm down hole angle is ver diffuse. Foliation change. Starting to see a lot of carbonate on fractures. Strongly to intensely alt SER PHY. Opaque pale blue-green coating of Fractures not SER, fairly common throughout. Absence of QF quite distance. Competence returns with QTZ rich bands-carry slightly more SX																						
			SUBNOTE: 95.85m to 96.10m very narrow interval of black-brown-maroon blot speckled PHY. Dominantly silver mica (as opposed to SER MICA). Only minor QF-ing																						
			but A lot fracturing. Not much clay alteration so just much later fracture zones w/ very little fluid running through.																						
			SUBNOTE: Transitional zone 103.27 to 105.87m. Major unit SER PHY w/ very fine maroon bands. Bulk is SER PHY, transition into 1/2 SER PHY and 1/2 MUSC-BIOT-PHY 105.87 to 107.27m Moderate white QF, oblique to c-axis and x-cutting at 60 deg. Opp quadrant to fol. Fol at 20 deg. SIDE NOTE fol parallel QTZ is clear.																						
			109.41 to 110.56m SECTION of coarse maroon grey blot PHY																						
			110.56 to 111.70m Dark grey maroon PHY																						
			111.7	119.28		PHY																			
			Wavy kink banded dark grey-maroon PHY. 115.09-117.96m Strongly Ser and bleached SER ALT w/ a lot of orange-tan laminations. Hardly any cabonate-only minor on f fractures. Bedding angle in bleached unit is 40 deg. NOTE: Primary weak relict fol fabric at oblique shallow angles to c-axis. Stronger secondary overprint at 40 deg.																						
			119.28	125.75	6.47	PHY																			
			GRADATIONAL CONTACT to mod SER ALTERED green-brown interbanded PHY. Speckled zones altered to CHL from contact down, pretty highly fractured into mod strong SER ALT-pale brown.																						
			125.75	132.4		PHY	SER alt Pale brown PHY																		
			Very minor QF sub parallel to fol. Fol in general shallow between 20 and 35 deg. Up to 1m rubble zones-fractures along SER zones-cutting at bad angle. Fine, thinly laminated grey-brown-maroon unit w/ very fine speckles (not like prev unit). Only localized carb in fractures.																						
			Minor clear x-cutting QTZ vnits 40 deg OPP Quad to fol. Minor PO.																						

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Depth	Temperature	Direction	Force	Time	Remarks
10	10.0	10.0	10.0	10.0	10.0
20	20.0	20.0	20.0	20.0	20.0
30	30.0	30.0	30.0	30.0	30.0
40	40.0	40.0	40.0	40.0	40.0
50	50.0	50.0	50.0	50.0	50.0
60	60.0	60.0	60.0	60.0	60.0
70	70.0	70.0	70.0	70.0	70.0
80	80.0	80.0	80.0	80.0	80.0
90	90.0	90.0	90.0	90.0	90.0
100	100.0	100.0	100.0	100.0	100.0

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