DETAILED DIAMOND DRILL REPORT

PLATEAU PROJECT

Cameco

Hole Number: **PLD001**

Units: METRIC

Project Name:	Plateau	UTM Coordinates		Grid Coordinates		Hole Type:	DDH
Project Number:	PL	Datum:	AMG66-53			Hole Size:	HQ/NQ
Location:	Cycad Valley	North:	8591516.00			Collar Dip:	-65.00
Date Started:	Jun 04, 2006	East:	335221.00			Collar Az:	156.00
Date Completed:	Jun 17, 2006	Collar Elev:	308.00			Final Depth:	674.40
Total Days:	14	Collar Survey:	N	Pulse EM Survey: N	Multishot Survey: N		
Core Storage:	Myra Camp	Making Water:	N	Is Hole Plugged: Y	Is Cemented: N		
Logged By:	jeremyw	Gas Intersected:	N	Object In Hole: N	Verified: N		
		Contractor:	Titeline Drilling		Casing: Pulled		

Comments: Helicopter supported drill hole. Rig arrived in Jabiru lunchtime 1st June, started drilling 4th June day shift. Problems with head delayed drilling.

DIAMETER:
HQ 0-29.5
NQ 29.5-674.4 (EOH)

TARGET:
This hole was targeting a stream sediment radiometric anomaly identified by PNC in the early 1990's, termed Anomaly B. PNC established a grid, known as the AB Grid over the area, covering both the radiometric anomaly and a GEOTEM Channel 16 anomaly close to the southern boundary of the tenement, both occurring along a valley formed due to the presence of a fault, termed Fault T. Mapping of this grid identified hematite alteration along fractures upslope from Anomaly B. A ground magnetic survey suggests that a basic dyke has intruded along Fault T.

Outcrop sampling conducted by Cameco in 2005 in the vicinity of Anomaly B produced a sample PL050002, with 11.4 ppm U as well as elevated P, REE, Sr and Y. Another outcrop sample taken from this area in 2006 (PL060007) also returned elevated U (49.8 ppm), P (20,900 ppm), Sr (1100 ppm), Y (17,600 ppm) and REE, suggesting the presence of APS phases and xenotime.

The hole was collared to the north of Anomaly B (and the AB grid) due to the lack of suitable drill sites further south. Thus, the hole was drilled at an angle of 65 degrees towards 160 in an attempt to intersect fault T in the vicinity of the radiometric Anomaly B.

DRILLING RESULTS
The hole was collared in Gummarirnbang Sandstone, and intersected the amygdule-rich flows of the Nungbalgarri Volcanics at 259.4 meters, giving 259.5 m of Gummarirnbang Sandstone. The contact with Mamadawerre sandstone was intersected at 420.8 meters, giving 161.5 m of Nungbalgarri Volcanics. 77.2 meters of Mamadawerre Sandstone were intersected before the contact with the chilled margin of the Oenpelli Dolerite at 498.0 m. The hole was terminated at 674.4 meters in Oenpelli Dolerite, such that 176.4 meters of dolerite were drilled.

Gummarirnbang Sandstone is a quartz rich medium-coarse sandstone that is dominantly cross- bedded. Bedding is subhorizontal. Clay intraclasts and thin <2 cm shale beds are present down to ~ 80 m. An interval with increase abundance of isolated pebbles and narrow (<3 cm) pebble beds was intersected between 192 and 206 m. Bedding becomes planar and alternates between fine- and coarse- grained beds between 233 m (aeolean facies?) and the contact with the Nungbalgarri Volcanics. Sandstone is exhibits diagenetic hematite in varying colours (purple, maroon) and forms (banded, blotches etc). Interstitial clay is present to some degree throughout the unit, and was confirmed as illite and kaolinite by petrography. In the upper 160 m there are frequent stylolites, either bedding parallel or crosscutting.

The Nungbalgarri Volcanics are a sequence of altered amygdular basaltic rocks with several units that grade from coarsely amygdular (5-30 mm amygdules) at the top to finely amygdular (5-0.5 mm amygdules) at the bottom. Hyaloclastite breccias and silicified entrained sediment are present in some locations.

The Mamadawerre Sandstone sitting immediately below the contact with the Nungbalgarri Vocanics is intensely bleached and silicified such that it could be termed an orthoquartzite. The upper 5 meters are very fissile with intense fracturing perpendicular to the core axis. Two closely spaced aphanitic dykes (or one irregular dyke) cut the sandstone between 462 and 466 meters. Below the dykes, the sandstone remains silicified, though is less bleached than above, as muted dark maroon diagenetic hematite and patches of green interstitial clay are present. Green interstitial clay is also present as a fracture coating throughout the Mamadawerre interval, although petrography failed to identify the green mineral.

The margin of the Oenpelli dolerite is aphanitic, suggesting that the contact is intrusive rather than faulted. Fracturing may be due to later reactivation resulting in little displacement. The dolerite is weakly chloritised throughout, though alteration is slightly stronger in the upper 20 meters. There is a reddish brown tint to much of the lower portion of the dolerite, due to hematised Kspar grains. There is a noticeable increase in the gamma background from the downhole log between 580 and 600 meters, with an increase from ~50 cps to ~80 cps. Combined with the presence of sericite and k-spar after plag (from petrography), the gamma increase is likely due to increased K content. Whether the incresed K is due to fractionation of the dolerite sill or K introduced via alteration is unclear. The dolerite is cut by frequent carbonate-chlorite-clay-quartz-kspar-sulfide (?pyrite) veins, that can have a selvage of up to 2-3 cm of disseminted pyrite and hematised kspar (adularia). Thin 0.5-2 mm carbonate/qtz-carbonate veinlets are also present.

Open-hole downhole gamma logging with the NQ probe (conducted several months after completion of drilling due to numerous logging mishaps at previous attempts) successfully delineated lithology, with the background in the Nungbalgarri Volcanics being approximately 140-180 cps whilst that in the sandstone was 20-30 cps. Increased noise in the lower Gummarirnbang gamma log is suggested to be due to increased interstitial clay and the corresponding increase in K content. No mineralisation was identified in the hole. The dismal mineralisation is best illustrated by the results of grade-thickness calculations. The best intersection using with a cut-off of 0.0055 % eU3O8 was 15 cm between 431.04 and 431.19 meters.

If the Oenpelli dolerite intersected in this hole represents the basic dyke inferred by PNC from their ground magnetics survey, then this hole did successfully intersect dolerite occupying Fault T. This hole failed to intersect any uranium mineralisation and really does not offer further encouragement for mineralisation in the area, expecially given the depth of sandstone, and the probably Nimbuwah basement beneath >700 m of sandstone.

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
46.00	156.00	-66.00	Reflex	OK	-4° adjustment for declination	**148.00**	159.00	-65.00	Reflex	OK	-4° adjustment for declination
250.00	161.00	-64.00	Reflex	OK	-4° adjustment for declination	**356.00**	166.00	-64.00	Reflex	OK	-4° adjustment for declination
462.00	168.00	-63.00	Reflex	OK	-4° adjustment for declination	**568.00**	170.00	-63.00	Reflex	OK	-4° adjustment for declination
674.00	176.00	-65.00	Reflex	OK	-4° adjustment for declination						

Detailed Lithology

From	To	Lithology
0	259.40	**SDST, sandstone** Gummarirnbang Sandstone. Moderate to poorly sorted sandstone consisting of dominantly rounded quartz grains with authigenic overgrowths. Average grain size is typically 0.4-0.6 mm, with some beds up to 3 mm. Grainsize does vary from bed to bed. Sandstone is weakly to moderately silicified and extend to silicification varies subtly on a decimeter scale. Occasional ~2 mm clay clasts after feldspar. In addition to the pebble-rich minor unit, the upper 85 m contains mm to cm scale clay intraclasts and occasional shale beds. Cross bedding, evidenced by truncated bedding, is present (<<5 cm) but not universal. Between 233 m and the contact with the volcanics, the bedding changes to planar, with alternating, poorly sorted coarse (0.6-0.9 mm) and fine beds (0.1-0.4 mm grainsize). Interstitial clay is present to some degree throughout, more abundant intervals are noted in alteration. Stylolites, either bedding parallel or crosscutting are common, particularly between 100 and 160 m. **Colour** 0 - 19.500 Primary Colour: 1 F P Secondary Colour: Munsell: 19.500 - 20.500 Primary Colour: 1 Y O Secondary Colour: Munsell: 20.500 - 30.000 Primary Colour: 1 M I Secondary Colour: 3 P O Munsell: 30.000 - 34.000 Primary Colour: 1 I O Secondary Colour: Munsell: 34.000 - 46.000 Primary Colour: 2 M O Secondary Colour: 1 F Munsell: 46.000 - 86.000 Primary Colour: 1 P O Secondary Colour: 1 F Munsell: 86.000 - 96.250 Primary Colour: 1 F Secondary Colour: 1 M P Munsell: 96.250 - 98.200 Primary Colour: 2 I Secondary Colour: 3 M Munsell: 98.200 - 106.000 Primary Colour: 1 F P Secondary Colour: 2 O Munsell: 106.000 - 108.000 Primary Colour: 2 O M Secondary Colour: Munsell: 108.000 - 148.500 Primary Colour: 1 F P Secondary Colour: 1 M Munsell: 148.500 - 151.000 Primary Colour: 1 I M Secondary Colour: 3 O Munsell: 151.000 - 160.500 Primary Colour: 1 I F Secondary Colour: 2 M P Munsell: 160.500 - 180.400 Primary Colour: 1 F P Secondary Colour: 1 M I Munsell: 180.400 - 180.550 Primary Colour: 2 M N Secondary Colour: Munsell: 180.550 - 184.300 Primary Colour: 1 F P Secondary Colour: 2 M I Munsell: 184.300 - 184.500 Primary Colour: 2 M N Secondary Colour: Munsell: 184.500 - 192.800 Primary Colour: 1 F P Secondary Colour: 2 M I Munsell: 192.800 - 194.000 Primary Colour: 1 I Secondary Colour: 2 M Munsell: 194.000 - 233.000 Primary Colour: 1 F P Secondary Colour: 2 M I Munsell: 233.000 - 235.000 Primary Colour: 2 F Secondary Colour: Munsell: 235.000 - 255.750 Primary Colour: 2 F P Secondary Colour: 2 M O Munsell: 255.750 - 257.400 Primary Colour: 2 O Secondary Colour: Munsell: 257.400 - 258.950 Primary Colour: 2 O P Secondary Colour: 2 M Munsell: 258.950 - 259.400 Primary Colour: 1 P G Secondary Colour: 1 RB Munsell: **MINOR INTERVALS:** **Minor Interval:** 192 - 206 PEST, pebbly sandstone Lithology is generally similar to the major unit (0.4-0.6 average grainsize, cross bedded, interstital clay etc), though isolated pebbles (up to 30 mm, though one was found that was 50 mm across) are more common in this unit. Also present are local poorly sorted pebble bands up to 2-3 cm thick. They do not occur with regularity, but are commong in this interval. **Colour** 192.000 - Primary Colour: Secondary Colour: Munsell:

Detailed Lithology

From	To	Lithology
259.40	420.80	**BASL, basalt** Nungbalgarri Volcanics. Consists of several units of coarse-grading-to-fine amygdular/vesicular basalt (5-30 mm for coarse, 5 mm to <1 mm for fine), as identified in lithology. In the upper portion of the volcanics, between upper contact and ~300 m hyaloclastite breccias are present. There appears to be minor sediment entrained in the flows, represented by altered, highly silicified clasts eg. 407 m. **Colour** 259.400 - 266.000 Primary Colour: 1 B G Secondary Colour: 2 RO YG Munsell: 266.000 - 266.650 Primary Colour: 1 G N Secondary Colour: Munsell: 266.650 - 275.400 Primary Colour: 1 B G Secondary Colour: 2 RO W Munsell: 275.400 - 276.400 Primary Colour: 1 RB YG Secondary Colour: 3 W Munsell: 276.400 - 278.300 Primary Colour: 1 YG G Secondary Colour: Munsell: 278.300 - 286.000 Primary Colour: 1 RB G Secondary Colour: 1 W Munsell: 286.000 - 287.000 Primary Colour: 1 YG G Secondary Colour: Munsell: 287.000 - 304.000 Primary Colour: 1 B G Secondary Colour: 2 RO W Munsell: 304.000 - 319.400 Primary Colour: 1 RB G Secondary Colour: 2 W RO Munsell: 319.400 - 334.000 Primary Colour: 1 RB G Secondary Colour: 3 RO W Munsell: 334.000 - 343.000 Primary Colour: 1 RB G Secondary Colour: 1 W G Munsell: 343.000 - 355.800 Primary Colour: 1 G RB Secondary Colour: 1 G W Munsell: 355.800 - 363.000 Primary Colour: 1 RB R Secondary Colour: 2 G W Munsell: 363.000 - 378.900 Primary Colour: 1 RB Secondary Colour: 1 G R Munsell: 378.900 - 381.500 Primary Colour: 1 RB G Secondary Colour: 2 W R Munsell: 381.500 - 381.700 Primary Colour: 2 I R Secondary Colour: 2 W A Munsell: 381.700 - 398.000 Primary Colour: 1 RB G Secondary Colour: 2 W G Munsell: 398.000 - 403.500 Primary Colour: 1 G Secondary Colour: 1 G Munsell: 403.500 - 405.750 Primary Colour: 2 B G Secondary Colour: 2 W G Munsell: 405.750 - 408.200 Primary Colour: 1 G Secondary Colour: 1 OB A Munsell: 408.200 - 409.300 Primary Colour: 1 B G Secondary Colour: 1 W OB Munsell: 409.300 - 420.800 Primary Colour: 1 G B Secondary Colour: 1 RB YG Munsell: **MINOR INTERVALS:** **Minor Interval:** 259.4 - 420.8 MVAM, Mafic Volcanic: Amygdule-rich
420.80	498.00	**SDST, sandstone** Mamadawerre Sandstone. The sandstone immediately beneath the Nungbalgarri Volcanics is intensely silicified and bleached, to the point of being called an orthoquartzite. Generally appears planar bedded, 0.4-0.6 mm typical grainsize, with coarse beds up to 3 mm grains. Sandstone is completely bleached to white/grey between the upper contact and the dykes at ~460 m. Between the dykes and the lower contact diagenetic hematite is present, though as a muted dark maroon. The sandstone remains a dirty grey, in contrast to the typical buff/orange/pink/maroon/purple colour. Minor green clay is present on fracture planes and interstitally in irregular patches. **Colour** 420.800 - 420.950 Primary Colour: 1 B Secondary Colour: Munsell: 420.950 - 450.100 Primary Colour: 1 W A Secondary Colour: 1 G Munsell: 450.100 - 460.000 Primary Colour: 1 A W Secondary Colour: 1 G Munsell: 460.000 - 462.450 Primary Colour: 2 A W Secondary Colour: 1 G Munsell: 462.450 - 463.250 Primary Colour: 2 B Secondary Colour: Munsell: 463.250 - 464.600 Primary Colour: 2 A Secondary Colour: 1 G M Munsell: 464.600 - 465.800 Primary Colour: 2 B Secondary Colour: Munsell: 465.800 - 498.000 Primary Colour: 2 A A Secondary Colour: 1 G M Munsell: **MINOR INTERVALS:** **Minor Interval:** 462.45 - 463.25 DYKE, dyke **Minor Interval:** 464.6 - 465.8 DYKE, dyke **Colour** 464.600 - Primary Colour: Secondary Colour: Munsell:
498.00	674.40	**DOL, dolerite** Oenpelli Dolerite. Green, fine grained (phenocrysts <3 mm) doleite. Upper contact is aphanitic, and whilst heavily fractured, the fine grained nature suggests an intrusive rather than a faulted contact. Weakly chloritised throughout, though slightly stronger in the upper 20 meters. There is a reddish brown tint to much of the lower portion of the dolerite, due to hematised Kspar grains.. A noitceable increase in the background gamma between 580 and 600 meters. Combined with the presence of hematised Kspar, the gamma increase is likely due to increased K content. Whether the incresed K is due to fractionation of the dolerite sill or K introduced via alteration is unclear. Cut by frequent carbonate-chlorite-quartz-hematite-sulfide (?pyrite) veins, that can have a selvage of up to 2-3 cm of disseminted pyrite and hematised kspar. Thin 0.5-2 mm carbonate/qtz-carbonate veinlets are also present. **Colour** 498.000 - 500.700 Primary Colour: 2 RB Secondary Colour: 2 R G Munsell: 500.700 - 505.000 Primary Colour: 2 G Secondary Colour: 3 R W Munsell: 505.000 - 599.000 Primary Colour: 2 G Secondary Colour: 1 F Munsell: 599.000 - 674.400 Primary Colour: 2 G F Secondary Colour: 1 R Munsell:

Alteration

Depth From	Depth To	Strat	Intense	Colour	Type	Distrib	Pct	Comments
0	19.500		2	P	HED	BIR	20.0	
0	19.500		1	I	HED	PERV	10.0	
0	19.500		1	F	BH	PERV	70.0	
0.600	96.000		1	C	SIL	PERV	100.0	Weak pervasive silicification
19.500	20.500		2	O	LI	BED	80.0	
20.500	53.000		3	P	HED	BIR	20.0	Also occurs as blotches
20.500	53.000		1	I	BH	BIR	25.0	Also occurs as blotches
20.500	53.000		1	P	HED	BIR	35.0	Also occurs as blotches
20.500	53.000		3	O	HED	BIR	10.0	Also occurs as blotches
53.000	86.000		3	M	HED	BIR	2.0	
53.000	86.000		1	M	HED	BIR	8.0	
53.000	86.000		1	O	BH	BIR	45.0	
53.000	86.000		1	P	HED	BIR	45.0	
75.800	76.000		2	O	LI	SPOT	1.0	3-5 mm limontite spots in bleached salmon sandstone
79.500	79.850		2	K	CY	INT	20.0	Increased interstitial clay associated with friable/fissile interval
86.000	96.000		1	F	BH	PERV	90.0	
96.000	98.200		2	M	HED	BIR	10.0	
96.000	98.200		1	I	HED	BIR	90.0	
96.000	98.200		2	C	SIL	PERV	80.0	Local increase in silicification. Usually associated with pink/maroon hematite
98.200	106.000		1	P	HED	PERV	50.0	Only rough approximation of % interval
98.200	106.000		1	F	BH	PERV	50.0	Only rough approximation of % interval
98.200	106.000		1	Y	CY	INT	90.0	Interstitial clay present throughout interval. Related to lack of silicification?
98.200	151.000		1	C	SIL	PERV	100.0	The entire interval is weakly silicified to some degree. Intensity decreases slightly downhole.
106.000	108.000		2	M	HED	BIR	10.0	
106.000	108.000		1	I	HED	BIR	90.0	
108.000	151.000		1	P	HED	PERV	50.0	
108.000	151.000		1	F	BH	PERV	50.0	
151.000	157.800		2	M	HED	BIR	15.0	
151.000	157.800		2	P	HED	BIR	10.0	
151.000	157.800		1	F	BH	PERV	75.0	
151.000	158.000		2	C	SIL	PERV	100.0	Another local increase in silicification associated with pink & maroon hematite
157.800	167.000		1	P	HED	BIR	30.0	
157.800	167.000		1	F	BH	PERV	70.0	
157.800	233.000		1	Y	CY	INT	100.0	Interstital clay is present, probably due to low intensity of silicification. Interstital clay abundance is controlled by bedding in some places, giving a mottle/banded appearance between 159 and 160 m.
158.000	239.000		1	C	SIL	PERV	100.0	Weak pervasive silicification. (authigenic?)
167.000	233.000		1	P	HED	BIR	45.0	
167.000	233.000		1	R	HE	BED	5.0	
167.000	233.000		1	F	BH	PERV	50.0	
233.000	235.200		2	F	BH	PERV	95.0	
233.000	258.950		1	Y	CY	INT	50.0	Weak interstital clay. Less abundant than before.
233.000	259.400		2	C	SIL	PERV	70.0	Incerase in intensity of silicification. Probably associated with the change in grainsize/deposition mode. Variable on the decimeter scale. Possibly correlated with HED?
235.200	255.800		1	P	HED	BIR	30.0	
235.200	255.800		2	M	HED	BIR	25.0	
235.200	255.800		1	R	HED	BIR	5.0	
235.200	255.800		1	F	BH	PERV	40.0	
255.800	257.400		2	O	BH	PERV	100.0	
255.800	259.400		1	C	SIL	PERV	20.0	
258.950	259.400		1	G	CL	PERV	60.0	Chloritisation associated with contact with volcanics.
259.400	420.800		1	BG	CL	PERV	70.0	Volcanics are altered to brown, red brown, green and yellow green coloured rock. For simplicity, chlorite is listed as the alteration mineral but it also includes other alteration products of mafic volcanics, such as epidote, prehnite, montmorillonite, celladonite etc.
259.400	420.800		1	RB	HE	PERV	70.0	Volcanics are altered to brown and red brown, suggesting oxidation of Fe via pervasive hematite and kspar alteration. Phenocrysts are altered to red.
259.400	420.800		1	RB	KF	PERV	70.0	Volcanics are altered to brown and red brown, suggesting oxidation of Fe via pervasive hematite and kspar alteration. Phenocrysts are altered to red.
322.000	322.600		1	P	XX	REPL	1.0	Chlacopyrite-bornite filling amygdules. Very rare.
323.200	323.650		2	C	SIL	PERV	90.0	Intensely silicified breccia. See interval/point structure
323.200	323.650		1	R	HE	REPL	20.0	Hematite alteration of volcanic clasts
323.200	323.650		1	G	CL	REPL	5.0	Minor chlorite in breccia. Altering clasts?
324.500	325.100		1	C	QZ	VN	5.0	Locally hematised and hematite altered, cut by minor qtz veinlets. Chloritised amygdules remain.
324.850	325.100		1	R	HE	PERV	85.0	Locally hematised and hematite altered, cut by minor qtz veinlets. Chloritised amygdules remain.
324.850	325.100		1	C	SIL	PERV	85.0	Locally hematised and hematite altered, cut by minor qtz veinlets. Chloritised amygdules remain.
327.300	327.800		1	G	CL	REPL	5.0	Minor chlorite in breccia matrix. Some clast alteration?
327.300	327.800		3	C	SIL	MATR	65.0	Silicified entrained sediment?
327.300	327.880		1	R	HE	REPL	30.0	Hematite altered volcanic clasts in breccia
330.250	330.600		1	R	HE	REPL	20.0	Hematite altered volcanic clasts in breccia
330.250	330.600		3	C	SIL	MATR	55.0	Silicified entrained sediment?
330.250	330.600		2	G	CL	REPL	25.0	Chlorite in breccia matrix and replacing clasts.
331.350	331.500		3	C	SIL	MATR	30.0	Silicified breccia matrix
331.350	331.500		1	R	HE	REPL	70.0	Hematite altered volcanic clasts in breccia

Alteration

Depth From	Depth To	Strat	Intense	Colour	Type	Distrib	Pct	Comments
331.350	331.500		1	G	CL	MATR	30.0	Minor chlorite in breccia matrix.
333.400	334.500		2	R	HE	REPL	30.0	Hematite altered volcanic clasts in breccia
333.400	334.500		3	C	SIL	MATR	65.0	Silicified entrained sediment?
333.400	334.500		1	G	CL	REPL	5.0	Minor chlorite in breccia matrix. Some clast alteration?
420.800	462.450		3	C	SIL	PERV	100.0	Intensely silicified and bleached (to the point of a glass-like surface in places)sandstone. Either due to contact metamorphism of sandstone between volcanics and dolerite, or fluid circulation associated with dolerite intrusion.
420.800	462.450		3	A	BH	PERV	100.0	Intensely silicified and bleached (to the point of a glass-like surface in places)sandstone. Either due to contact metamorphism of sandstone between volcanics and dolerite, or fluid circulation associated with dolerite intrusion.
420.800	498.000		1	GU	CY	FRAC	1.0	Minor green phylosilicate (PIMA suggests illite) occurs on fractures about .5-3 per row above the dykes, and then increases in occurrence between the dykes and the contact with Oenpelli. Can be seen to have replaced whatever minerals were occupying stylolites.
461.000	498.000		1	M	HE	FRAC	1.0	From a couple of meters above the dykes to the contact with Oenpelli dolerite, maroon hematite coated fractures of varying orientation occur, including a minor amount of "make-up" hematite at 468.30 m. Hematite is usually associated with green-blue mineral interpreted to be illite based on PIMA results.
463.250	464.600		3	C	SIL	PERV	100.0	Intensely silicified and bleached (to the point of a glass-like surface in places)sandstone. Either due to contact metamorphism of sandstone between volcanics and dolerite, or fluid circulation associated with dolerite intrusion.
463.250	464.600		2	A	AU	BIR	70.0	Intensely silicified and bleached (to the point of a glass-like surface in places)sandstone. Either due to contact metamorphism of sandstone between volcanics and dolerite, or fluid circulation associated with dolerite intrusion.
463.250	464.600		1	M	HED	BIR	30.0	Relict diagenetic hematite seems to remain. It is dark maroon and occurs in irregular bands, as seen in the Gummarirnbang. Bands can be sharply truncated by bleaching fronts, i.e. 472.5 m
465.800	498.000		1	GU	CY	INT	3.0	Greenish phyllosilicate (PIMA suggests illite) also occurs interstitially in restricted irregular bands, typically <10 mm wide in sandstone between the dykes and the Oenpelli contact.
498.000	505.000		2	R	HE	REPL	5.0	Cherry/brick red hematite alteration in veinlets and as selvages up to several cm wide. Hematite alteration is not pervasive in selvages, rather replacing certain minerals. Selvages tend to have very sharp boundaries with country rock.
498.000	674.400		1	G	CL	PERV	100.0	Dolerite is chloritised to a slightly higher degree than usual near the upper contact. Decreases to typical with 20 meters.
599.000	674.400		1	R	HE	MTC	5.0	Hematisation of minor kspar. Kspar occasionally seen as ocelli around chloritised augite
603.000	674.400		1	R	HE	FRAC	1.0	Hematite alteration (of kspar/plag?) in selvages around carbonate-chlorite-pyrite-quartz veinlets

Interval Structure

Depth From	Depth To	Structure	Frac Int	Friab	Recov	Peaks	Comments
0	14.000	OF	5	1	100	20	
7.850	8.150	BC	20	3	100	20	Friable, broken sandstone. Local desilicification?
14.000	21.500	OF	2	1	100	20	
20.500	20.700	IR	0	2	100	20	Locally more friable interval. Desilicification?
21.500	46.000	OF	3	1	100	20	
46.000	70.000	OF	1	1	100	20	
70.000	86.000	OF	2	1	100	20	
79.500	79.850	FS	20	4	100	20	Fissile, also friable broken sandstone. Lack of silicification extends to ~80.05
86.000	259.600	OF	2	1	100	20	Bedding parallel fractures along stylolites. Minor clay on surface.
89.000	259.600	OF	0	1	100	20	Low angle TCA fractures with frequency of <1 per tray. Not typically limonite
147.000	155.000	OF	3	1	100	20	Low angle TCA fractures (subvertical). Frequently limonite coated.
212.000	231.000	OF	2	1	100	20	Low angle TCA fractures more prevalent in this interval, particularly 216-219
261.450	273.800	FS	20	1	100	30	Mixture of fissile and fractured volcanics
270.000	270.200	BX		1	100	30	Flow breccia?
273.800	285.750	OF	4	1	100	30	Fractures in volcanics, varying orientations
275.400	276.400	VN	20	1	100	30	1 meter of intense quartz veining. Qtz veinlets, typically 2-3 mm, but up to 10
285.750	292.300	OF	10	1	100	30	Fractures in volcanics, varying orientations
288.550	288.850	BX		1	100	30	Flow breccia?
289.750	289.950	BX		1	100	30	Flow breccia?
290.850	291.250	BX		1	100	30	Flow breccia?
292.300	303.500	OF	4	1	100	30	Fractures in volcanics, varying orientations
294.250	294.560	BX		1	100	30	Flow breccia?
303.500	313.000	OF	3	1	100	30	Fractures in volcanics, varying orientations
312.000	319.560	VN	6	1	100	30	~25 degree TCA quartz and qtz-hem veinlets <1 mm wide common in this int
313.000	330.300	OF	5	1	100	30	Fractures in volcanics, varying orientations
323.200	323.650	BX		1	100	30	Brecciated entrained sediment? Intensely silicified complex ?healed breccia.
323.200	323.650	BX	20	1	100	30	Very silicified complexly veined interval. Original textures modified.
327.300	327.800	BX		1	100	30	Breccia. Hematised and silicifed volcanic clasts (cm sized) in qtz-weak chlori
330.250	330.660	BX		1	100	30	Flow breccia? Hematised and silicifed volcanic tabular clasts (~10 mm) in sili
330.300	333.700	OF	7	1	100	30	Fractures in volcanics, varying orientations
331.350	331.500	BX		1	100	30	Flow breccia? Hematised and silicifed volcanic clasts (cm sized) in qtz-weak
333.400	334.500	BX		1	100	30	Flow breccia? Hematised and silicifed volcanic clasts (cm sized) in qtz-weak
333.700	339.800	OF	10	1	100	30	Fractures in volcanics, varying orientations
338.600	343.000	VN	15	1	100	30	Some open, most healed, chlorite-carbonate coated fractures/veinlets in volc
339.000	343.000	VN	3	1	100	30	Thin <1-2 mm quartz-carbonate veinlets
339.800	343.980	OF	4	1	100	30	Fractures in volcanics, varying orientations
343.980	360.000	OF		1	100	30	Fractures in volcanics, varying orientations
348.500	355.500	VN	2	1	100	30	Thin <1-3 mm quartz-carbonate veinlets
354.300	354.600	BC	20	1	100	30	Heavily fractured volcanics
360.000	377.600	OF	2	1	100	30	Fractures in volcanics, varying orientations
377.600	403.000	OF	3	1	100	30	Fractures in volcanics, varying orientations
403.000	413.700	OF	4	1	100	30	Fractures in volcanics, varying orientations
406.500	412.500	VN	5	1	100	30	Qtz-carb-chlorite veinlets <1 mm - 3 mm. Generally closed.
413.700	420.800	OF	12	1	100	30	Fractures in volcanics, varying orientations
414.300	414.500	LC		1	0	30	
415.440	416.000	BC	20	1	100	30	Heavily fractured volcanics
420.400	420.800	BC	20	1	100	30	Heavily fractured volcanics
420.800	433.000	OF	14	1	100	20	Brittle, open fractures in silicified sandstone. Generally at 90 degrees to core
433.000	438.500	OF	4	1	100	20	Relatively competent interval of silicified sandstone
438.500	465.800	OF	12	1	100	20	Average abundance of brittle, open fractures in both silicified sandstone and
455.960	463.200	BC	20	1	90	20	
464.900	465.600	BC	20	1	90	20	Dykes are very broken
465.800	517.000	OF	6	1	100	20	Average abundance of brittle, open fractures in both silicified sandstone and
498.000	498.900	BC	20	1	60	20	Chilled margin of dolerite is very broken, to the point of sub cm sized particles
498.900	499.920	LC		1	0		
508.400	510.100	BC	20	1	100	20	Upper portions of dolerite (not chilled margin) are broken.
516.850	517.100	BC	20	1	100	20	
517.000	562.000	OF	3	1	100	20	Open fractures in dolerite. Mainly due to thin chlorite+carbonate+-pyrite veinl
528.100	528.500	BC	20	1	100	20	
562.000	573.000	OF	5	1	100	20	Open fractures in dolerite. Mainly due to thin chlorite+carbonate+-pyrite veinl
573.000	585.000	OF	1	1	100	20	Generally massive dolerite with few fractures/veinlets
585.000	599.000	OF	3	1	100	20	Open fractures in dolerite. Mainly due to thin chlorite+carbonate+-pyrite veinl
599.000	674.400	VN	1	1	100	20	Carbonate-chlorite-pyrite-quartz veinlets in dolerite with a selvage up to seve

Rock Quality

Point Structure

Depth	Orient	Ref Elem	Lin / Plan	Element	Dip Dir / Trend	Dip / Plunge	Rake	Alpha	Ang TCA	Intensity	Colour	Code	Confidence	Comments
8.300	N		Planar	FRAC					10	1	A	SIL	GOOD	Discrete 2-3 mm wide irregular plane of discoloured sandstone. Fabric of grains is continuous across the feature. Closed silicified fracture?
13.700	N		Planar	FRAC					20	2	G	CY	GOOD	Closed fracture (1-2 mm) lined with yellow-green material (clay and ?chlorite) with prominent 5-10 mm selvage of bleached sandstone
14.800	N		Planar	FRAC					10	1	A	CY	GOOD	~0.5 mm clay lined closed fracture
19.600	N		Planar	Contact					60	1	K	CY		5 mm thick Cream-yellow bed of clay/silicified clay. Shale bed?
21.900	N		Planar	FRAC					20	1	I	HE	GOOD	Open fracture coated with silicified hematite and clay. Very small <0.5 mm radiating acicular crystals on fracture surface. Fracture would be 2-3 mm wide if closed.
24.650	N		Planar	Contact					60	1CM	Y	CY		Irregular 2-10 mm band of yellow-white clay. Shale bed or large clay intraclast?
29.150	N		Planar	FRAC						1	C	QZD	GOOD	<0.5 mm closed quartz fracture/stylolite with prominent ~ 5 mm bleached selvage
43.600	N		Planar	Contact					60	5CM	M	CY		5 cm interval of irregular bands and lenses of maroon-brown, very fine grained shale material. Clay intraclasts or shale bed?
46.250	N		Planar	FRAC						1	A	BH	GOOD	3-5 mm wide bleached/?silicified irregular low angle TCA fracture
47.200	Y		Planar	Bedding	235	10			62					
53.150	N		Planar	Contact					60	1	M	CY		3 mm thick maroon brown shale bed
56.700	N		Planar	Contact					60	1	M	CY		5 mm maroon-brown shale bed
61.300	Y		Planar	Bedding	265	5			65					
64.950	N		Planar	Contact					60	1CM	M	CY		5-10 mm thick maroon-brown shale bed
71.350	Y		Planar	Bedding	273	6			65					
74.300	N		Planar	Contact					60	1CM	M	CY		10-15 mm thick maroon-brown shale bed
75.160	N		Planar	Contact					60	1	M	CY		5 mm maroon brown shale bed
76.100	N		Planar	FRAC					15	1	O	LI	GOOD	Limonite coated open fracture
80.750	N		Planar	Contact					60	2CM	M	CY		20 mm maroon brown shale bed
84.500	Y		Planar	Bedding	83	8			65					
93.750	Y		Planar	Fracture	148	89			20			OF		
100.500	Y		Planar	Bedding	270	10			65					
100.800	Y		Planar	Fracture	301	89			15			OF		
103.850	Y		Planar	Fracture	201	89			25			OF		
111.900	Y		Planar	Bedding	250	8			60					Fracture surface due to stylolite. Represents bedding surface?
126.850	Y		Planar	Fracture	293	87			20			OF		
132.800	Y		Planar	Fracture	157	9			60					Stylolite fracture surface. Represents bedding surface?
137.200	Y		Planar	Bedding	256	9			65					
140.650	Y		Planar	Fracture	291	86			17			OF		
143.650	Y		Planar	Fracture	290	87			20			OF		
156.500	Y		Planar	Bedding	212	5			65					
156.500	Y		Planar	Fracture	60	20			70					Stylolite fracture surface. Represents bedding or x-bedding?
157.350	Y		Planar	Fracture	50	15			70					Stylolite fracture surface. Represents bedding or x-bedding?
160.900	Y		Planar	Fracture	7	80			33			OF		
180.400	Y		Planar	Bedding	267	1			70					Bedding plane fracture. Very low angle, and uneven fracture sureface means dip direction has high error associated with it.
185.200	Y		Planar	Fracture	274	85			15			OF		Low angle TCA fracture. Minor clay, if anything on fracture surface.
186.050	Y		Planar	Fracture	336	87			30			OF		Low angle TCA fracture. Minor clay, if anything on fracture surface.
205.250	Y		Planar	Bedding	216	10			65					Bedding plane fracture. Very low angle means dip direction has high error associated with it.
223.500	Y		Planar	Fracture	133	80			15			OF		Low angle TCA fracture. Minor clay, if anything on fracture surface.

Point Structure

Depth	Orient	Ref Elem	Lin / Plan	Element	Dip Dir / Trend	Dip / Plunge	Rake	Alpha	Ang TCA	Intensity	Colour	Code	Confidence	Comments
223.650	Y		Planar	Bedding	182	3			65					Bedding plane fracture. Very low angle, and uneven fracture sureface means dip direction has high error associated with it.
225.000	N		Planar	Fracture					20	1	K	CY		Clay coated low angle TCA open fracture. No other low angle fractures are clay coated.
243.650	Y		Planar	Bedding	3	1			65					Bedding plane fracture. Very low angle, and uneven fracture sureface means dip direction has high error associated with it.
256.750	Y		Planar	Bedding	182	1			70					
256.750	Y		Planar	Bedding	182	1			70					Bedding plane fracture. Very low angle, and uneven fracture sureface means dip direction has high error associated with it.
265.000	N		Planar	Vein					50	2	R	HE		hem qtz vein 15-20 mm thick
265.500	N		Planar	Vein					50	2	R	HE		30 mm bright red hem-qtz vein
275.700	Y		Planar	Vein	144	7			60	1	W	QZ		One quartz vein out of the interval of many
276.100	N		Planar	Vein					45	2	W	QZ		Thicker quartz vein of different orientation in vein rich interval
284.850	Y		Planar	Vein	308	83			40	1	R	QZ		~ 5 mm quatrz- red hematite - chlorite veinlet
310.500	Y		Planar	Vein	169	31			35	1	G	QZ		~ 5 mm quartz-chlorite veinlet
313.050	Y		Planar	Vein	62	84			15	1	W	QZ		low angle TCA quartz-spec hem-red hem laminated veinlet. ~ 5 mm wide.
317.550	Y		Planar	Vein	231	68			15	1	W	QZ		low angle TCA quartz-spec hem-red hem laminated veinlet. ~ 5 mm wide.
318.300	N		Planar	Vein					15	1	W	QZ		low angle TCA quartz-spec hem-red hem laminated veinlet. ~ 5 mm wide.
407.100	N		Planar	VUG						2	OB	SIL		Silicified vug from 407.1-407.35. Bladed qtz, pyrite, chlorite and Fe-oxy hydroxides. Probably associated with entrained sediment
407.700	N		Planar	VUG						2	OB	SIL		Irregular silicified vugs, making only part of the core from 407.7 to 408.15. Bladed qtz, pyrite, chlorite and Fe-oxy hydroxides. Probably associated with entrained sediment.
431.300	N		Planar	FRAC										Minor increase in counts to 25-30 cps cf 15 bg around this depth
467.000	Y		Planar	Bedding	7	1			60					
467.000	Y		Planar	Bedding	7	1			60					Open fracture that appears bedding plane parallel, therefore giving a bedding orientation
500.750	N		Planar	Vein					60	1	R	QC		5 mm Quartz-carbonate hematite veinlet
501.800	N		Planar	Vein					60	1	R	QC		3 mm hematite-chlorite-qtz/carbonate vein let with 5 mm hematised selvage. There are ~3 more between here are 202.35 m
503.300	N		Planar	Vein					5	1	W	QC		Almost core axis parallel quartz-carbonate vein ~ 5 mm wide
504.600	N		Planar	Contact					40	2	R	HE		Excellent example of hematised dolerite (possibly a selvage) with a sharp boundary with unhematised rock
533.700	N		Planar	Vein					10	1	WG	QC		Laminated 5 mm carbonate-chlorite-pytite-quartz vein, no obvious selvage
536.850	N		Planar	Vein					50	1	WG	QC		Laminated 5 mm carbonate-chlorite-pytite-quartz vein, no obvious selvage
537.600	N		Planar	Vein					30	1	WG	QC		Laminated 5 mm carbonate-chlorite-pytite-quartz vein, no obvious selvage
563.000	N		Planar	Vein					20	1	WG	QC		Laminated 10 mm carbonate-chlorite-pytite-quartz vein
563.600	N		Planar	Vein					20	1	WG	QC		Laminated 10 mm carbonate-chlorite-pytite-quartz vein
566.000	N		Planar	Vein					20	1	WG	QC		Laminated 5-10 mm carbonate-chlorite-pytite-quartz vein, with selvage of pyrite-?hematite

Point Structure

Depth	Orient	Ref Elem	Lin / Plan	Element	Dip Dir / Trend	Dip / Plunge	Rake	Alpha	Ang TCA	Intensity	Colour	Code	Confidence	Comments
567.800	N		Planar	Vein					10	1	WG	QC		Laminated 5-10 mm carbonate-chlorite-pytite-quartz vein, with selvage of pyrite-?hematite
568.500	N		Planar	Vein					3	1	WG	QC		Laminated 5 mm carbonate-chlorite-pytite-quartz vein, with selvage of pyrite-?hematite
571.800	N		Planar	Vein					15	1	WG	QC		Laminated 5-10 mm carbonate-chlorite-pytite-quartz vein, with selvage of pyrite-?hematite
584.550	N		Planar	Vein					50	1	WG	QC		Laminated 5 mm carbonate-chlorite-pytite-quartz vein, with selvage of pyrite-?hematite
585.100	N		Planar	Vein					40	1	WG	QC		Laminated 10 mm carbonate-chlorite-pytite-quartz vein. No obvious selvage
644.000	N		Planar	Vein					4	1	RB			Opaque, very hard 5 mm thick reddish-brown crosscutting veinlet/dyke with irregular contacts with country rock. Hematised chilled dykelet or silicified hematised vein of some sort? Thin section cut.
665.550	N		Planar	Vein					90	1	RB			Opaque, very hard 5 mm thick reddish-brown crosscutting veinlet/dyke with sharp contacts with country rock. Hematised chilled dykelet or silicified hematised vein of some sort?
668.220	N		Planar	Vein					90	1	RB			Opaque, very hard 10-30 mm thick reddish-brown crosscutting veinlet/dyke with sharp contacts with country rock. Hematised chilled dykelet or silicified hematised vein of some sort? Thickness suggests dykelet?

Lithology Details

Mineralization

Mineralogy

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
0	0.73	0.02	
0.73	1.46	0.19	
1.46	2.19	0.09	
2.19	2.93	0.08	
2.93	3.66	0.02	
3.66	4.60	0.01	
4.60	5.54	0.01	
5.54	6.48	0.01	
6.48	7.43	0	
7.43	8.37	0	
8.37	9.29	0	
9.29	10.22	0.03	
10.22	11.15	0	
11.15	12.07	0.01	
12.07	13.00	0.03	
13.00	13.89	0.02	
13.89	14.78	0.03	
14.78	15.67	0.01	
15.67	16.57	0.02	
16.57	17.46	0	
17.46	18.35	0.01	
18.35	19.23	0.01	
19.23	20.12	0	
20.12	21.01	0.02	
21.01	21.90	0	
21.90	22.78	0.01	
22.78	23.66	0.01	
23.66	24.54	0.02	
24.54	25.42	0.03	
25.42	26.30	0.01	
26.30	27.16	0.03	
27.16	28.01	0.01	
28.01	28.87	0.01	
28.87	29.73	0.01	
29.73	30.59	0.01	
30.59	31.47	0.01	
31.47	32.35	0.03	
32.35	33.24	0.04	
33.24	34.12	0.01	
34.12	35.00	0	
35.00	35.89	0	
35.89	36.80	0.01	
36.80	37.71	0.02	
37.71	38.63	0.02	
38.63	39.54	0	
39.54	40.45	0.02	
40.45	41.37	0.01	
41.37	42.25	0.02	
42.25	43.13	0	
43.13	44.02	0.01	
44.02	44.90	0	
44.90	45.78	0.01	
45.78	46.67	0.02	
46.67	47.59	0.01	
47.59	48.51	0	
48.51	49.43	0.04	
49.43	50.35	0.02	
50.35	51.28	0.02	
51.28	52.20	0.03	
52.20	53.09	0.02	
53.09	53.98	0.02	
53.98	54.88	0.02	
54.88	55.77	0.01	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
55.77	56.66	0.01	
56.66	57.56	0.02	
57.56	58.47	0.02	
58.47	59.38	0.02	
59.38	60.29	0.03	
60.29	61.20	0.04	
61.20	62.12	0.02	
62.12	63.03	0.02	
63.03	63.93	0.02	
63.93	64.83	0.03	
64.83	65.73	0.02	
65.73	66.63	0.02	
66.63	67.53	0.02	
67.53	68.43	0.02	
68.43	69.39	0.03	
69.39	70.35	0.02	
70.35	71.32	0.02	
71.32	72.28	0.03	
72.28	73.24	0.02	
73.24	74.21	0.02	
74.21	75.06	0.02	
75.06	75.92	0.02	
75.92	76.77	0.02	
76.77	77.63	0.02	
77.63	78.48	0.02	
78.48	79.34	0.03	
79.34	80.23	0.02	
80.23	81.12	0.04	
81.12	82.02	0.02	
82.02	82.91	0.02	
82.91	83.80	0.03	
83.80	84.70	0.02	
84.70	85.62	0.02	
85.62	86.54	0.02	
86.54	87.46	0.02	
87.46	88.38	0.03	
88.38	89.30	0.03	
89.30	90.22	0.02	
90.22	91.11	0.02	
91.11	92.01	0.03	
92.01	92.90	0.08	
92.90	93.80	0.02	
93.80	94.69	0.02	
94.69	95.59	0.02	
95.59	96.47	0.04	
96.47	97.34	0.01	
97.34	98.22	0.03	
98.22	99.10	0.03	
99.10	99.98	0.02	
99.98	100.86	0.02	
100.86	101.78	0.03	
101.78	102.71	0.02	
102.71	103.64	0.01	
103.64	104.56	0.01	
104.56	105.49	0.03	
105.49	106.42	0.04	
106.42	107.31	0.05	
107.31	108.21	0.02	
108.21	109.10	0.04	
109.10	110.00	0.03	
110.00	110.89	0.04	
110.89	111.79	0.03	
111.79	112.69	0.04	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
112.69	113.60	0.03	
113.60	114.50	0.02	
114.50	115.41	0.05	
115.41	116.31	0.03	
116.31	117.22	0.04	
117.22	118.12	0.02	
118.12	119.01	0.02	
119.01	119.91	0.02	
119.91	120.81	0	
120.81	121.71	0.02	
121.71	122.61	0.02	
122.61	123.52	0.02	
123.52	124.43	0.03	
124.43	125.34	0.04	
125.34	126.25	0.02	
126.25	127.16	0.03	
127.16	128.07	0.02	
128.07	128.99	0.03	
128.99	129.91	0.03	
129.91	130.83	0.02	
130.83	131.75	0.03	
131.75	132.68	0.03	
132.68	133.60	0.03	
133.60	134.48	0.03	
134.48	135.37	0.02	
135.37	136.26	0.02	
136.26	137.14	0.03	
137.14	138.03	0.02	
138.03	138.92	0.02	
138.92	139.82	0.02	
139.82	140.72	0.03	
140.72	141.63	0.02	
141.63	142.53	0.03	
142.53	143.43	0.03	
143.43	144.34	0.02	
144.34	145.24	0.03	
145.24	146.14	0.03	
146.14	147.04	0.02	
147.04	147.94	0.04	
147.94	148.84	0.03	
148.84	149.74	0.01	
149.74	150.62	0.01	
150.62	151.50	0.01	
151.50	152.38	0.02	
152.38	153.26	0.01	
153.26	154.15	0.02	
154.15	155.03	0.02	
155.03	155.92	0.01	
155.92	156.81	0.02	
156.81	157.70	0.03	
157.70	158.59	0.04	
158.59	159.48	0.04	
159.48	160.37	0.03	
160.37	161.27	0.02	
161.27	162.18	0.02	
162.18	163.09	0.02	
163.09	163.99	0.02	
163.99	164.90	0.04	
164.90	165.81	0.04	
165.81	166.72	0.03	
166.72	167.62	0.04	
167.62	168.53	0.04	
168.53	169.44	0.08	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
169.44	170.35	0.03	
170.35	171.26	0.03	
171.26	172.19	0.12	
172.19	173.11	0.03	
173.11	174.04	0.02	
174.04	174.97	0.02	
174.97	175.90	0.02	
175.90	176.83	0.02	
176.83	177.74	0.04	
177.74	178.65	0.07	
178.65	179.56	0.03	
179.56	180.47	0.05	
180.47	181.38	0.04	
181.38	182.29	0.04	
182.29	183.20	0.05	
183.20	184.12	0.08	
184.12	185.04	0.05	
185.04	185.95	0.10	
185.95	186.87	0.02	
186.87	187.79	0.06	
187.79	188.69	0.06	
188.69	189.58	0.03	
189.58	190.48	0.03	
190.48	191.38	0.04	
191.38	192.28	0.02	
192.28	193.18	0.02	
193.18	194.06	0.03	
194.06	194.94	0.02	
194.94	195.83	0.02	
195.83	196.71	0.01	
196.71	197.59	0.06	
197.59	198.48	0.09	
198.48	199.38	0.01	
199.38	200.29	0.01	
200.29	201.20	0.07	
201.20	202.10	0.01	
202.10	203.01	0.03	
203.01	203.92	0	
203.92	204.82	0.01	
204.82	205.71	0.11	
205.71	206.61	0.04	
206.61	207.51	0.03	
207.51	208.41	0.03	
208.41	209.31	0	
209.31	210.25	0.08	
210.25	211.18	0	
211.18	212.12	0	
212.12	213.06	0.02	
213.06	214.00	0.01	
214.00	214.94	0.03	
214.94	215.78	0.16	
215.78	216.61	0.13	
216.61	217.45	0.10	
217.45	218.29	0.02	
218.29	219.13	0.38	
219.13	219.97	0.06	
219.97	220.90	0.29	
220.90	221.82	0.14	
221.82	222.75	0	
222.75	223.68	0	
223.68	224.61	0.06	
224.61	225.54	0	
225.54	226.39	0	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
226.39	227.25	0.15	
227.25	228.11	0.06	
228.11	228.96	0	
228.96	229.82	0.15	
229.82	230.68	0	
230.68	231.57	0	
231.57	232.45	0	
232.45	233.34	0	
233.34	234.23	0.10	
234.23	235.12	0.03	
235.12	236.01	0	
236.01	236.94	0.04	
236.94	237.87	0.02	
237.87	238.80	0.38	
238.80	239.73	0.06	
239.73	240.67	0.24	
240.67	241.60	0.03	
241.60	242.51	0	
242.51	243.41	0.01	
243.41	244.32	0	
244.32	245.23	0	
245.23	246.14	0.01	
246.14	247.05	0.01	
247.05	247.97	0.03	
247.97	248.89	0.04	
248.89	249.81	0	
249.81	250.73	0.01	
250.73	251.65	0.13	
251.65	252.57	0.01	
252.57	253.47	0.05	
253.47	254.37	0.01	
254.37	255.27	0.04	
255.27	256.17	0	
256.17	257.07	0	
257.07	257.97	0	
257.97	258.89	0	
258.89	259.81	0.06	
259.81	260.73	0	
260.73	261.65	0.03	
261.65	262.58	0.18	
262.58	263.50	0.03	
263.50	264.36	0.20	
264.36	265.22	0.13	
265.22	266.08	0	
266.08	266.94	0.09	
266.94	267.81	0	
267.81	268.67	0.01	
268.67	269.56	0.12	
269.56	270.45	0.01	
270.45	271.34	0.03	
271.34	272.23	0.15	
272.23	273.12	0.01	
273.12	274.01	0.05	
274.01	274.92	0.16	
274.92	275.83	0.08	
275.83	276.75	0.06	
276.75	277.66	0.07	
277.66	278.57	0.69	
278.57	279.49	0.02	
279.49	280.36	1.22	
280.36	281.24	1.47	
281.24	282.12	9.55	
282.12	282.99	1.31	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
282.99	283.87	2.75	
283.87	284.75	1.34	
284.75	285.69	0.66	
285.69	286.64	0.55	
286.64	287.58	0.46	
287.58	288.53	0.25	
288.53	289.47	1.06	
289.47	290.42	0.54	
290.42	291.28	0.29	
291.28	292.15	0.72	
292.15	293.02	0.52	
293.02	293.88	0.43	
293.88	294.75	0.34	
294.75	295.62	0.64	
295.62	296.50	1.13	
296.50	297.38	0.13	
297.38	298.27	1.53	
298.27	299.15	0.26	
299.15	300.03	0.89	
300.03	300.92	0.19	
300.92	301.83	1.58	
301.83	302.73	0.91	
302.73	303.64	0.97	
303.64	304.55	1.83	
304.55	305.46	1.65	
305.46	306.37	1.62	
306.37	307.26	1.36	
307.26	308.14	3.17	
308.14	309.03	1.60	
309.03	309.92	13.70	
309.92	310.81	21.30	
310.81	311.70	18.30	
311.70	312.60	23.90	
312.60	313.51	16.50	
313.51	314.41	4.20	
314.41	315.32	14.00	
315.32	316.22	17.30	
316.22	317.13	25.00	
317.13	318.05	1.99	
318.05	318.97	1.07	
318.97	319.90	1.25	
319.90	320.82	1.46	
320.82	321.74	0.82	
321.74	322.67	0.55	
322.67	323.52	0.24	
323.52	324.37	0.69	
324.37	325.22	1.27	
325.22	326.07	1.60	
326.07	326.92	1.55	
326.92	327.77	1.29	
327.77	328.62	1.16	
328.62	329.48	1.45	
329.48	330.34	0.66	
330.34	331.19	1.97	
331.19	332.05	1.41	
332.05	332.91	1.36	
332.91	333.73	0.93	
333.73	334.56	1.51	
334.56	335.39	1.17	
335.39	336.21	1.55	
336.21	337.04	1.37	
337.04	337.87	1.51	
337.87	338.76	2.45	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
338.76	339.66	2.30	
339.66	340.56	14.00	
340.56	341.45	25.10	
341.45	342.35	14.90	
342.35	343.25	9.91	
343.25	344.17	14.11	
344.17	345.10	8.44	
345.10	346.03	11.30	
346.03	346.95	12.10	
346.95	347.88	2.56	
347.88	348.81	11.80	
348.81	349.68	4.83	
349.68	350.56	0.04	
350.56	351.44	0.02	
351.44	352.31	0.01	
352.31	353.19	0.69	
353.19	354.07	2.09	
354.07	354.95	3.47	
354.95	355.84	5.25	
355.84	356.73	4.01	
356.73	357.61	7.22	
357.61	358.50	7.23	
358.50	359.39	6.95	
359.39	360.30	5.68	
360.30	361.22	13.60	
361.22	362.14	14.50	
362.14	363.05	5.52	
363.05	363.97	5.21	
363.97	364.89	5.30	
364.89	365.81	1.64	
365.81	366.73	5.56	
366.73	367.65	5.53	
367.65	368.57	2.12	
368.57	369.49	1.82	
369.49	370.41	2.11	
370.41	371.33	1.58	
371.33	372.26	1.54	
372.26	373.18	11.40	
373.18	374.11	19.00	
374.11	375.03	5.28	
375.03	375.96	13.60	
375.96	376.86	1.89	
376.86	377.76	1.44	
377.76	378.66	1.14	
378.66	379.56	3.24	
379.56	380.47	2.10	
380.47	381.37	1.43	
381.37	382.28	1.80	
382.28	383.20	1.25	
383.20	384.12	1.14	
384.12	385.03	1.45	
385.03	385.95	1.66	
385.95	386.87	2.33	
386.87	387.76	1.74	
387.76	388.66	1.53	
388.66	389.55	1.74	
389.55	390.45	1.29	
390.45	391.34	1.53	
391.34	392.24	1.47	
392.24	393.17	2.52	
393.17	394.10	1.85	
394.10	395.04	10.70	
395.04	395.97	2.01	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
395.97	396.90	2.03	
396.90	397.84	16.20	
397.84	398.75	24.80	
398.75	399.66	18.70	
399.66	400.58	0.44	
400.58	401.49	0.68	
401.49	402.40	0.98	
402.40	403.32	0.51	
403.32	404.20	0.40	
404.20	405.08	0.41	
405.08	405.97	0.46	
405.97	406.85	0.67	
406.85	407.73	0.45	
407.73	408.62	0.79	
408.62	409.51	0.51	
409.51	410.39	0.58	
410.39	411.28	0.56	
411.28	412.17	0.58	
412.17	413.06	25.70	
413.06	413.95	27.60	
413.95	414.73	23.80	
414.73	415.52	1.79	
415.52	416.31	26.20	
416.31	417.09	0.70	
417.09	417.88	0.33	
417.88	418.67	0.34	
418.67	419.47	0.21	
419.47	420.27	0.17	
420.27	421.07	0.03	
421.07	421.87	0.03	
421.87	422.67	0.19	
422.67	423.47	0.04	
423.47	424.27	0.03	
424.27	425.08	0.02	
425.08	425.88	0.03	
425.88	426.69	0.15	
426.69	427.49	0.05	
427.49	428.30	0.07	
428.30	429.11	0.05	
429.11	429.92	0.04	
429.92	430.73	0.05	
430.73	431.54	0.03	
431.54	432.36	0.04	
432.36	433.17	0.02	
433.17	434.07	0.07	
434.07	434.98	0.04	
434.98	435.88	0.06	
435.88	436.79	0.03	
436.79	437.69	0.04	
437.69	438.60	0.02	
438.60	439.42	0.07	
439.42	440.24	0.04	
440.24	441.06	0.02	
441.06	441.88	0.09	
441.88	442.70	0.03	
442.70	443.52	0.05	
443.52	444.37	0.05	
444.37	445.22	0.03	
445.22	446.08	0.04	
446.08	446.93	0.03	
446.93	447.78	0.01	
447.78	448.64	0.01	
448.64	449.37	0.04	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
449.37	450.11	0.09	
450.11	450.84	0.03	
450.84	451.58	0.05	
451.58	452.31	0.08	
452.31	453.05	0.05	
453.05	454.06	0.15	
454.06	455.07	0.09	
455.07	456.08	0.07	
456.08	457.09	0.08	
457.09	458.11	0.03	
458.11	459.12	0.05	
459.12	460.00	0.26	
460.00	460.88	0.26	
460.88	461.76	0.55	
461.76	462.64	0.33	
462.64	463.52	0.24	
463.52	464.40	0.52	
464.40	465.24	0.41	
465.24	466.08	0.21	
466.08	466.93	0.24	
466.93	467.77	0.21	
467.77	468.61	0.43	
468.61	469.46	0.22	
469.46	470.35	0.31	
470.35	471.25	0.31	
471.25	472.15	0.28	
472.15	473.04	0.38	
473.04	473.94	0.30	
473.94	474.84	0.26	
474.84	475.71	0.25	
475.71	476.58	0.17	
476.58	477.45	0.21	
477.45	478.32	0.14	
478.32	479.19	0.11	
479.19	480.06	0.20	
480.06	480.92	0.26	
480.92	481.79	0.30	
481.79	482.65	0.21	
482.65	483.52	0.34	
483.52	484.38	0.11	
484.38	485.25	0.17	
485.25	486.17	0.11	
486.17	487.09	0.10	
487.09	488.02	0.13	
488.02	488.94	0.04	
488.94	489.86	0.17	
489.86	490.79	0.09	
490.79	491.73	0.09	
491.73	492.68	0.10	
492.68	493.63	0.08	
493.63	494.57	0.11	
494.57	495.52	0.16	
495.52	496.47	0.04	
496.47	497.45	0.15	
497.45	498.44	0.56	
498.44	499.42	0.19	
499.42	500.41	18.60	
500.41	501.39	1.79	
501.39	502.38	69.50	
502.38	503.20	79.60	
503.20	504.01	52.00	
504.01	504.83	70.80	
504.83	505.65	65.90	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
505.65	506.47	25.80	
506.47	507.29	9.54	
507.29	508.14	7.15	
508.14	509.00	30.50	
509.00	509.86	32.30	
509.86	510.71	17.80	
510.71	511.57	41.60	
511.57	512.43	37.50	
512.43	513.21	44.60	
513.21	513.99	37.10	
513.99	514.77	29.70	
514.77	515.55	37.30	
515.55	516.34	21.40	
516.34	517.12	17.90	
517.12	518.02	43.40	
518.02	518.92	28.40	
518.92	519.82	41.90	
519.82	520.72	29.00	
520.72	521.63	39.10	
521.63	522.53	38.30	
522.53	523.43	43.20	
523.43	524.32	37.70	
524.32	525.22	41.30	
525.22	526.12	37.30	
526.12	527.02	61.60	
527.02	527.92	31.50	
527.92	528.77	39.70	
528.77	529.63	40.50	
529.63	530.49	47.50	
530.49	531.34	57.50	
531.34	532.20	54.00	
532.20	533.06	54.90	
533.06	533.94	55.20	
533.94	534.82	53.20	
534.82	535.70	44.00	
535.70	536.58	50.50	
536.58	537.47	60.30	
537.47	538.35	47.00	
538.35	539.25	38.90	
539.25	540.15	63.80	
540.15	541.05	58.80	
541.05	541.95	55.10	
541.95	542.85	47.20	
542.85	543.75	51.50	
543.75	544.64	61.30	
544.64	545.54	68.20	
545.54	546.44	70.30	
546.44	547.33	72.60	
547.33	548.23	64.30	
548.23	549.13	69.50	
549.13	550.01	44.70	
550.01	550.89	43.40	
550.89	551.77	59.30	
551.77	552.65	63.50	
552.65	553.53	63.50	
553.53	554.41	71.50	
554.41	555.36	62.00	
555.36	556.31	64.10	
556.31	557.27	47.00	
557.27	558.22	52.20	
558.22	559.17	49.90	
559.17	560.13	61.20	
560.13	560.93	58.30	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
560.93	561.73	58.80	
561.73	562.53	51.40	
562.53	563.33	57.20	
563.33	564.13	65.20	
564.13	564.93	55.20	
564.93	565.78	49.40	
565.78	566.63	51.10	
566.63	567.48	11.80	
567.48	568.33	11.70	
568.33	569.18	45.20	
569.18	570.03	52.90	
570.03	570.89	47.60	
570.89	571.76	42.70	
571.76	572.62	53.80	
572.62	573.49	45.20	
573.49	574.35	41.20	
574.35	575.22	41.90	
575.22	576.13	43.80	
576.13	577.03	46.80	
577.03	577.94	42.10	
577.94	578.85	37.20	
578.85	579.76	44.60	
579.76	580.67	43.10	
580.67	581.62	44.70	
581.62	582.57	47.30	
582.57	583.52	41.30	
583.52	584.47	39.50	
584.47	585.42	37.70	
585.42	586.37	43.20	
586.37	587.23	44.40	
587.23	588.09	49.20	
588.09	588.95	44.20	
588.95	589.81	49.30	
589.81	590.68	37.90	
590.68	591.54	46.40	
591.54	592.44	41.50	
592.44	593.33	40.30	
593.33	594.23	47.30	
594.23	595.13	44.70	
595.13	596.03	49.70	
596.03	596.93	42.00	
596.93	597.81	44.10	
597.81	598.69	42.90	
598.69	599.57	41.20	
599.57	600.45	26.40	
600.45	601.34	33.10	
601.34	602.22	42.60	
602.22	603.11	41.00	
603.11	604.00	45.30	
604.00	604.89	39.80	
604.89	605.78	41.70	
605.78	606.68	19.20	
606.68	607.57	42.20	
607.57	608.47	22.10	
608.47	609.37	42.50	
609.37	610.28	30.40	
610.28	611.18	34.80	
611.18	612.08	39.10	
612.08	612.99	23.70	
612.99	613.88	33.60	
613.88	614.77	36.00	
614.77	615.66	31.00	
615.66	616.55	33.30	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
616.55	617.44	29.50	
617.44	618.33	21.60	
618.33	619.22	23.80	
619.22	620.11	24.50	
620.11	621.00	26.60	
621.00	621.89	17.50	
621.89	622.79	27.80	
622.79	623.68	24.00	
623.68	624.59	25.00	
624.59	625.50	27.00	
625.50	626.42	20.90	
626.42	627.33	17.30	
627.33	628.24	26.10	
628.24	629.16	28.90	
629.16	630.09	8.60	
630.09	631.03	0.93	
631.03	631.96	27.10	
631.96	632.90	15.10	
632.90	633.83	21.60	
633.83	634.77	33.10	
634.77	635.63	21.40	
635.63	636.50	24.20	
636.50	637.36	23.20	
637.36	638.23	22.70	
638.23	639.09	31.10	
639.09	639.96	20.50	
639.96	640.87	24.20	
640.87	641.79	38.50	
641.79	642.70	34.80	
642.70	643.62	27.70	
643.62	644.53	27.40	
644.53	645.45	26.90	
645.45	646.35	23.60	
646.35	647.24	27.20	
647.24	648.14	31.90	
648.14	649.04	29.10	
649.04	649.94	18.20	
649.94	650.84	25.40	
650.84	651.72	24.80	
651.72	652.60	20.90	
652.60	653.48	18.80	
653.48	654.36	18.40	
654.36	655.24	13.90	
655.24	656.12	15.20	
656.12	657.04	19.70	
657.04	657.97	13.70	
657.97	658.89	12.00	
658.89	659.82	14.30	
659.82	660.74	30.20	
660.74	661.67	47.50	
661.67	662.55	30.90	
662.55	663.44	25.70	
663.44	664.33	49.30	
664.33	665.21	2.24	
665.21	666.10	42.80	
666.10	666.99	46.50	
666.99	667.91	30.00	
667.91	668.83	36.30	
668.83	669.75	12.90	
669.75	670.67	20.90	
670.67	671.59	45.40	
671.59	672.51	18.40	
672.51	673.67	26.20	

Magnetic Susceptability

Depth From	Depth To	Mag Susceptability	Comments
673.67	674.56	20.40	