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CLIENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

SHEET: 1 OF 10
DRILL RIG: Hanjin D&B

CHECKED: SF

DATE: 2/9/23

DATE: 25/10/23

PROJECT: Pioneer Burdekin PHES GI LOCATION: Netherdale SURFACE RL: 205.05 m DATUM: AHD CONTRACTOR: Twin Hills INCLINATION: -88° DIRECTION: 184° LOGGED: ENGEO

JOB NO: 23117.000.001

HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m

Drilling Sampling **Field Material Description** MOISTURE CONDITION CONSISTENCY DENSITY METHOD / SUPPORT PENETRATION RESISTANCE SROUP SYMBO RECOVERED STRUCTURE AND SAMPLE OR GRAPHIC LOG ADDITIONAL OBSERVATIONS LENGTH MATERIAL DESCRIPTION WATER (metres) FIELD TEST DEPTH RL -0.0 205.05 0.10 204.95 CI TOPSOIL ΕP TOPSOIL: CLAY with sand and silt w<PL St medium plasticity, dark brown, with silt, with fine to coarse grained sand, trace rootlets (<2mm) SC RESIDUAL SOIL Clayey SAND with gravel fine to coarse grained, well graded, sub-rounded to sub-angular, dark brown mottled white, low plasticity clay, with fine to medium grained, sub-angular gravel 0.5 D MD 1.0 Coring water returns were not recorded. ENGEO 2.00.2.2 LIB.GLB LQ ENGEO NON-CORED FULL PAGE PIONEER BURDEKIN -MASTERBHT03 REWORK-AUSLAPTOP008.GPJ <-Drawing File>> 30/10/2024 20:59 10.03.00.09 Datgel Tools 1.50 203.55 1.5 Soil Particle Density EXTREMELY WEATHERED MATERIAL SAND with silt (t/m³) = 2.56 SPT 1.50-1.95 m 13, 15, 25 N=40 fine to coarse grained, well graded, sub-angular to angular, brown mottled off-white, with clay, trace fine grained, sub-angular gravel, (Extremely Weathered Granite) 2.0 D MF SSA 2.5 3.0 D SPT 3.00-3.35 m 17, 31, 19/50mm HB 3.5 VD 4.0 4.50 200.55 4.5 Soil Particle Density (t/m³) = 2.61 SPT 4.50-4.90 m 18, 28, 26/100mm HB SAND with clay SC fine to coarse grained, well graded, sub-angular to angular, brown mottled off-white, with clay, trace silt, (Extremely Weathered Granite) DP D VD 5.0 This log must be read in conjunction with accompanying symbols and abbreviations used on Geotechnical Logs. It has been prepared for geotechnical purposes only.



BOREHOLE: BQLA-04

CLIENT: COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

DRILL RIG: Hanjin D&B SURFACE RL: 205.05 m DATUM: AHD

INCLINATION: -88° DIRECTION: 184° LOCATION: Netherdale HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m JOB NO: 23117.000.001

CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23

DATE: 25/10/23

SHEET: 2 OF 10

CHECKED: SF

		Dril	ling		Sampling				Field Material Desc	riptic	n	
SUPPORT	PENETRATION RESISTANCE	_	LENGTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION		CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
SSA			5.0 —					SW- SC	SAND with clay fine to coarse grained, well graded, sub-angular to angular, brown mottled off-white, with clay, trace silt, (Extremely Weathered Granite)	D	VD	
			6.0 —	7.50	SPT 6.00-6.22 m 25, 30/70mm HB					М	VD	
	DP	∑ kz/80/62	7.5 —	7.50	Soil Particle Density (\(\bar{Um}^3\)) = 2.62 SPT 7.50-7.75 m 20, 32/100mm HB SPT 8.35-8.44 m 32/90mm HB			SW	SAND with silt fine to coarse grained, well graded, sub-angular to angular, brown mottled off-white, with low plasticity silt, trace clay, (Extremely Weathered Granite)	М	VD	
		30/08/23	9.5 — - - - - - -	9.85 195.21	Soil Particle Density (t/m³) = 2.64		o a	SW		М	VD	



BOREHOLE: BQLA-04

CLIENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

SURFACE RL: 205.05 m DATUM: AHD

 LOCATION:
 Netherdale
 INCLINATION:
 -88° DIRECTION:
 184°

 JOB NO:
 23117.000.001
 HOLE DIA:
 96/100 mm
 HOLE DEPTH:
 40.07 m

SHEET: 3 OF 10
DRILL RIG: Hanjin D&B
CONTRACTOR: Twin Hills

10.0 Seri Printed Directly (2017) 2.92 Printed Series Printed Series (2017) 2.92 Printed Seri	JOB NO:	23117	.000.00	1	HOL	E DI	IA: 9	96/100 mm HOLE DEPTH: 40.07 m		CHEC	CKED: SF DATE: 25/10/23	_
10.0		lling		Sampling				Field Material Desc				
10.5	METHOD / SUPPORT PENETRATION RESISTANCE WATER		<i>DEPTH</i> RL	FIELD TEST	RECOVERED	FOG	GROUP SYMBOL	MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
15.0 This log must be read in conjunction with accompanying symbols and abbreviations used on Geotechnical	BW Db	10.5 — 11.0 — 11.5 — 12.0 — 13.5 — 14.0 — 14.0 —		(l/m²) = 2.64 SPT 9.85-10.22 m 4,12,25/70mm HB Possibly material caved in first 300mm. SPT 13.35-13.46 m 35/30mm HB			sw	fine to coarse grained, well graded, sub-angular to angular, brown mottled off-white, fine grained, sub-angular gravel, trace	M	VD		
Logs. It has been prepared for geotechnical purposes only.		^J 15.0 —				l in c	onju	nction with accompanying symbols and abbreviations used	on G	Geotec	chnical	



BOREHOLE: BQLA-04

IENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55 SURFACE RL: 205.05 m DATUM: AHD

 LOCATION:
 Netherdale
 INCLINATION:
 -88° DIRECTION:
 184°

 JOB NO:
 23117.000.001
 HOLE DIA:
 96/100 mm
 HOLE DEPTH:
 40.07 m

SHEET: 4 OF 10
DRILL RIG: Hanjin D&B
CONTRACTOR: Twin Hills

Drillin	na	Sampling				Field Material Desc	rintic	'n	
SUPPORT PENETRATION RESISTANCE WATER	LENGTH (metres)	1	RECOVERED	LOG	GROUP SYMBOL			CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
DP DP	5.5			0. 0. 0. 0.	SW	Gravelly SAND fine to coarse grained, well graded, sub-angular to angular, brown mottled off-white, fine grained, sub-angular gravel, trace low plasticity fines, (Extremely Weathered Granite)	М	VD	
	6.0		<u></u>	· 0.: :		For Continuation Refer to Sheet 5			
1	6.5 —								
1	7.0 —								
	7.5								
	8.0 —								
1	9.0 —								
1	9.5 —								
	0.0					nction with accompanying symbols and abbreviations used			



CLIENT:

COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

PROJECT: Pioneer Burdekin PHES GI

INCLINATION: -88° DIRECTION: 184°

SURFACE RL: 205.05 m DATUM: AHD

SHEET: 5 OF 10 DRILL RIG: Hanjin D&B

CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23

LOCATION: Netherdale HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m JOB NO: 23117.000.001 CHECKED: SF DATE: 25/10/23

Dril	lina			Field Material Description						Defect Information		
		DEPTH	GRAPHIC LOG	MATERIAL DESCRIPTION	ETAILED EATHERING	STR Is ₅₀ (AS1	ENGT (MPa) 726:2017	D H)	MEASURED STRENGTH: UCS & Isso (A.D.L) (MPa)	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached Detailed Defect Log for all recorded discon-	AVERAC DEFEC SPACIN (mm) (ISO14689:20	OT NG) 2017)
	15.5	15.65		Continuation of Sheet 4		7\ 	∑ I →	山		tinuities and defects	<u>₩</u> > 0 w >	
25	16.0 —		+ + - + + + - + + +	GRANITE Medium to coarse grained, igneous plutonic. White, grey and black. Crystalline, subhedral to euhedral hornblende and biotite crystals, equigranular feldspars and quartz. Poorly developed, indistinct foliation. Few mafic inclusions, fine grained, dark grey, mm to cm scale, comprised hornblende (?) and biotite (?),	MW					15.96-16.05 m: J, 79°, Und, Sm, FeO Std 15.97-15.97 m: J, 15°, Und, Sm, FeO Std		-
73	16.5 — 17.0 —	- 16.50 188.56	- ' + ' + ' + ' + ' + ' + ' + ' + ' + '	<20 mm. Very weak / subtle pink (potassic alteration (?) of orthoclase (?), becoming less noticeable with depth. Some defects fresh and clean, some with FeO staining. Mechanical Defects Js; gentle moderate, (5-8/m), Und - Cvd, Sm, FeO Std. Js; very steep, (1-2/m), Und - Stp, Sm - Ro, FeO Std. 15.65 m - 15.83 m: Distinctly weathered, recovered as GRAVEL; fine to medium grained, sub-rounded. (Likely disaggregated by drilling). 16.50 m: VWP installed 05/09/2023	FR					16.28-16.29 m: J, 36°, Stp, Sm, FeO Std 16.30-16.31 m: J, 25°, Und, Ro, FeO Std 16.67-16.68 m: J, 26°, Stp, Sm, MnO Std 16.74-16.74 m: J, 19°, Und, Sm, FeO Std 16.80-16.81 m: J, 11°, Und, Sm, FeO Std 16.80-16.88 m: J, 26°, Cvd, Sm, FeO Std 16.92-16.92 m: J, 14°, Und, Sm, FeO Std 16.92-16.96 m: J, 45°, Und, Sm, FeO Std 17.26-17.28 m: J, 37°, Pln, Sm, FeO Std 17.39-17.40 m: J, 35°, Stp, Sm, FeO Std 17.50-17.62 m: J, 87°, Cvd, Sm, FeO Std		-
83	18.0 —	- - - - - - - - - - -	- + + + + + + + + + + + + + + + + + + +						I ₅₀ (A)>5.83 UCS=111	17.63-17.66 m: J, 46°, Stp, Sm, FeO Std 18.10-18.14 m: J, 44°, Und, Sm, FeO Std 18.19-18.22 m: J, 44°, Und, Sm, FeO Std		
97	19.0 —	- - - - - - - - - - - - - - - - - - -	+ + + + + + + + + + + + + + + + + + +							18.97-19.05 m: J, 46°, Und, Sm, FeO Std 19.49-19.57 m: J, 54°, Und, Sm, Cn		
	0 73	15.0 — 15.0 — 15.5 — 16.5 — 16.5 — 17.5 — 18.0 — 18.5 — 19.0 —	15.0 — 15.65 — 15.65 — 189.41 — 189.39 — 16.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 18.5 — 19.0 — 19.	15.0 — 15.65 — 15.65 — 189.31 — + + + + + + + + + + + + + + + + + +	15.5 — 15.65 — 175.65	15.5 — 15.65 — Continuation of Sheet 4 — HW	15.5 — 15.65	15.5 - 15.65 Continuation of Sheet 4 HW White, grey and black. Cystaline, sub-back, and quartz. HW White, grey and black. Cystaline, sub-back, and quartz. HW HW HW HW HW HW HW H	15.5	15.5 — 15.65 Continuation of Sheet 4 HW MW 16.75 HW 16.75	15.5 - 15.55 Continuation of Street 4 Contin	15.5 15.5 Continuation of Sheet 4 Continuation of Sheet 4 Continuation of Sheet 4 May 15.5 May 15.



CLIENT: COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

PROJECT: Pioneer Burdekin PHES GI SURFACE RL: 205.05 m DATUM: AHD INCLINATION: -88° DIRECTION: 184° LOCATION: Netherdale

SHEET: 6 OF 10 DRILL RIG: Hanjin D&B CONTRACTOR: Twin Hills

LOGGED: ENGEO DATE: 2/9/23 DATE: 25/10/23 CHECKED: SF

SUPPORT	WATER	TCR	RQD	ODRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INF STF Is: (AS)	FERR RENG (MP 61726:20	ED STH (a)	MEASURED STRENGTH: UCS & Isto (A.D.L) (MPa)	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached De- tailed Defect Log for all recorded discon- tinuities and defects	AVERA DEFE SPACI (mm (ISO14689)
	95% RETURN	100	97	20.5 —	185.06	+ + + + + + + + + + + + + + + + + + +	grey, concentration of hornblende and mica, sub-rounded, sharp margins. GRANITE Medium to coarse grained, igneous plutonic. White, grey and black. Crystalline, subhedral to euhedral hornblende and biotite crystals, equigranular feldspars and quartz. Poorly developed, indistinct foliation. Few mafic inclusions, fine grained, dark grey, mm to cm scale, comprised hornblende (?) and biotite (?),	FR					20.00-20.04 m: J, 39°, Stp, Sm, Feld Std 20.49-20.52 m: J, 26°, Stp, Ro, Cn	Ì
	95% RETURN	100	100	21.0 —	21.40 183.66	· + + + + + + + + + + + + + + + + + + +	<20 mm. Very weak / subtle pink (potassic alteration (?) of orthoclase (?), becoming less noticeable with depth. Some defects fresh and clean, some with FeO staining. Mechanical Defects Js; gentle moderate, (5-8/m), Und - Cvd, Sm, FeO Std. Sry steep, (1-2/m), Und - Stp, Sm - Ro, FeO Std. From 20.00 m: Rock generally pale grey with faint pink orthoclase throughout, most noticeable when wet Defects become planar to undulating, rough, clean. From 21.40 m: Pink-brown potassic alteration (?)						20.89-20.90 m: J, 9°, Und, Ro, Cn 21.03-21.03 m: J, 12°, Stp, Ro, Cn	_
_				21.5 —	-	- + + - + + - + + - + + - + + - + +	halos associated with defects.	FR	-			UCS=157	21.49-21.51 m: J, 51°, Und, Sm, Feld Std 21.70-21.73 m: J, 51°, Pln, Sm, Feld Std 21.79-21.80 m: J, 21°, Und, Sm, Cn	Å
23	90% RETURN	100	100	22.5 —	22.98 182.08	+ + + - + + +	22.98 m - 23.96 m: With pink k-spar (potassic ?) alteration.					I ₅₀ (A)>5.78	22.78-22.85 m: J, 71°, Stp, Ro, Cn	I
				23.5 —	23.25 181.82 181.81	+ + + - + + + - + + + - + +	Below 23.25 m: With some thin zones of grey discolouration of groundmass from 50 mm up to 100 mm wide, along joints. 23.26 m - 23.40 m and 23.45 m - 23.50 m: Grey discolouration, likely silicic (?) alteration.						23.23-23.24 m: J, 21°, Und, Ro, Feld Std 23.46-23.49 m: J, 42°, Und, Ro, Cn	
	95% RETURN	100	93	24.0 —	24.40 180.67	+ + - + + - + + + - + + + 	24.40 - 24.90 m: Pink potassic (?) alteration halos from 10mm to 40 mm wide along felsic veins at 75° (1 mm - 5mm thick).	SA	- -				24.12-24.14 m: J, 34°, Und, Sm, CA Std 24.56-24.56 m: J, 2°, Und, Sm, Cn 24.59-24.59 m: J, 1°, Und, Sm, Cn	d
				25.0 —	25.00	+ + - + + + - + + -							24.59-24.59 m: J, 1*, Und, Sm, Cn 24.68-24.70 m: J, 34°, Stp, Ro, Feld Std 24.74-24.74 m: J, 4°, Cvd, Sm, Feld Std 24.78-24.82 m: J, 67°, Stp, Sm, Feld Std	



CLIENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

PROJECT: Pioneer Burdekin PHES GI SURFACE RL: 205.05 m DATUM: AHD
LOCATION: Netherdale INCLINATION: -88° DIRECTION: 184°

JOB NO: 23117.000.001 HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m

SHEET: 7 OF 10
DRILL RIG: Hanjin D&B
CONTRACTOR: Twin Hills

IOB NO:	231	17.000	.001		HOLE DIA: 96/100 mm HOLE DEPT	H: 40	1.07	n		CHECKED: SF DATE	E: 25/10/23
	Drilli				Field Material Description					Defect Information	
SUPPORT WATER TCR	RQD	DRILLED LENGTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INFE STR Is _s (AS1	ERRED ENGTH (MPa) 726:2017) 3 2 8 2 2 x 5 6	EASU TREN JCS 8	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached Detailed Defect Log for all recorded discontinuities and defects	AVERAGI DEFECT SPACING (mm) (ISO14689:201
95% RETURN	95	25.0 —	180.07	+ + + + + + + + + + + + + + + + + + +	GRANITE Medium to coarse grained, igneous plutonic. White, grey and black. Crystalline, subhedral to euhedral hornblende and biotite crystals, equigranular feldspars and quartz. Poorly developed, indistinct foliation. Few mafic inclusions, fine grained, dark grey, mm to cm scale, comprised hornblende (?) and biotite (?), <20 mm. Very weak / subtle pink (potassic alteration (?) of orthoclase (?), becoming less noticeable with depth. Some defects fresh and clean, some with FeO staining. Mechanical Defects Js; gentle moderate, (5-8/m), Und - Cvd, Sm, FeO Std. Js; very steep, (1-2/m), Und - Stp, Sm - Ro, FeO Std. From 25.00 m: Occasional orange pink veins with possible carbonate infill, soft, white streak (calcite ?).	FR				25.41-25.43 m: J, 19°, Und, Ro, Feld Std 25.60-25.64 m: J, 45°, Stp, Sm, Cn 25.67-25.67 m: J, 9°, Und, Sm, Cn 25.68-25.69 m: J, 0°, Und, Sm, Feld Std 26.14-26.17 m: J, 43°, Und, Sm, Feld Std	
95% RETURN	100	26.5 —	27.40	+ + + + + + + + + + + + + + + + + + +	27.38 m - 27.41 m: Mafic (hornblende and mica) inclusion: fine grained, dark grey, sub-rounded, sharp margins.				UCS=144 I ₅₀ (A)>4.90	27.91-27.91 m: J, 39°, Stp, Sm, Feld Std	
95% RETURN	100	28.5 —		+ + + + + + + + + + + + + + + + + + +						28.66-28.67 m: J, 27°, Und, Sm, Cn 28.69-28.71 m: J, 32°, Und, Sm, Cn 28.88-28.89 m: J, 12°, Und, Sm, Cn 28.90-28.92 m: J, 34°, Stp, Ro, Feld Std 29.03-29.04 m: J, 14°, Pln, Sm, Cn	j
95% RETURN	100	30.0	-	- + + + - + + + - + + +							-



CLIENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

PROJECT: Pioneer Burdekin PHES GI SURFACE RL: 205.05 m DATUM: AHD LOCATION: Netherdale INCLINATION: -88° DIRECTION: 184° JOB NO: 23117.000.001 HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m

SHEET: 8 OF 10
DRILL RIG: Hanjin D&B
CONTRACTOR: Twin Hills

	0:		17.000	.001		HOLE DIA: 96/100 mm HOLE DEPT	1. 40	7.07			CHECKED: SF DATI	E: 25/10/23
		Drilli				Field Material Description					Defect Information	1
SUPPORT	TCR	RQD	DRILLED LENGTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INFE STR Is _{so} (AS1	ERREI ENGTI (MPa) 726:2017)	EASURE TRENGT JCS & Ist	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached Detailed Defect Log for all recorded discontinuities and defects	AVERAGE SPACIN (mm) (ISO14689:21
95% RETURN	100	100	30.0 —	30.46 - 174.61 - 30.80 - 174.27	+ + + + - + + + - + - + + + - + + + + +	GRANITE Medium to coarse grained, igneous plutonic. White, grey and black. Crystalline, subhedral to euhedral hornblende and biotite crystals, equigranular feldspars and quartz. Poorly developed, indistinct foliation. Few mafic inclusions, fine grained, dark grey, mm to cm scale, comprised hornblende (?) and biotite (?), <20 mm. Very weak / subtle pink (potassic alteration (?) of orthoclase (?), becoming less noticeable with depth. Some defects fresh and clean, some with FeO staining. Mechanical Defects Js; gentle moderate, (5-8/m), Und - Cvd, Sm, FeO Std Js; very steep, (1-2/m), Und - Stp, Sm - Ro, FeO Std Js; very steep, (1-2/m), Und - Stp, Sm - Ro, FeO Std Js. 30.43 m - 30.58 m; Grey silicic (?) alteration, 120 mm	FR SA FR				30.05-30.07 m: J, 41°, Stp, Sm, Feld Std 30.61-30.63 m: J, 19°, Stp, Ro, Cn 30.90-30.90 m: J, 5°, Irr, Ro, Cn	
			31.0	-	+ + - + + + - + + +	wide, possible silification or annealing. Increased concentration of quartz. From 30.80m: Common orange to pink orthoclase (?) throughout, generally associated with defects though can persist in absence of defects. Possibly a subtle magmatic chemistry variation.					31.07-31.07 m: J, 2°, Und, Ro, Feld Std 31.28-31.32 m: J, 44°, Stp, Sm, Feld Std	Ų
95% RETURN	100	91	31.5		- + + - + + + - + - +						31.58-31.61 m: J, 34°, Und, Sm, Cn	
3			32.0 — - - - - 32.5 —	32.40 172.67	+ + - + - + - + - + - +	From 32.40 m: Noticeable increase in brass on core, possible core deformation.					31.94-31.98 m: J, 34°, Und, Sm, Cn 32.22-32.23 m: J, 16°, Und, Sm, Feld Std 32.49-32.53 m: J, 40°, Und, Sm, Cn	
90% RETURN	95	71	33.0 —	-	+ + + + - + + + - + + + - + + +					I ₅₀ (A)>5.59	32.83-32.87 m: J, 54°, Und, Sm, Cn 32.90-32.94 m: J, 44°, Und, Sm, Cn	
			33.5 —	33.50 171.57	+ + - + - + - + + +	33.50 m - 33.60 m: Drilling induced breaks, multiple attempts to break and recover core.					33.40-33.40 m: J, 1°, Cvd, Sm, Cn	
1% RETURNI RETURN	100	100	34.0 —	34.10 170.97	- + + + - + + + - +	From 24.10 m. Defeate hinjestly become unable to the					34.07-34.19 m: J, 20°, Pln, Ro, Pinkish stains	
95% RETURN 95%	100	85	34.5 —	-	- + + + - + + + - + - + + +	From 34.10 m: Defects typically become undulating to planar, rough, slightly altered, pale pink with calcite.					along joint, 10mm wide each side. 34.17-34.21 m: J, 40°, Pln, Ro	
	100	100	- - - 35.0 —	-	- + + + - + + +						34.70-34.71 m: J, 10°, Cvd, Ro	



LOCATION: Netherdale

BOREHOLE: BQLA-04

CLIENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

SURFACE RL: 205.05 m DATUM: AHD INCLINATION: -88° DIRECTION: 184°

JOB NO: 23117.000.001 HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m

SHEET: 9 OF 10 DRILL RIG: Hanjin D&B

CONTRACTOR: Twin Hills

LOGGED: ENGEO DATE: 2/9/23

CHECKED: SF DATE: 25/10/23

			Drilli				Field Material Description						Defect Information		
SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INF STF Is: (AS:	ERRE RENG (MPa 1726:201	ED TH a)	MEASURED STRENGTH: UCS & Is50 (A,D,L) (MPa)	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached Detailed Defect Log for all recorded discontinuities and defects	SPA	FEC ACIN nm)
	95% RETURN	100	100	35.0 — 35.5 —		+ + + - + + + - + + + + - + + + - + +	GRANITE Medium to coarse grained, igneous plutonic. White, grey and black. Crystalline, subhedral to euhedral hornblende and biotite crystals, equigranular feldspars and quartz. Poorly developed, indistinct foliation. Few mafic inclusions, fine grained, dark grey, mm to compare the complende (?) and biotite (?), <20 mm. Very weak / subtle pink (potassic alteration (?) of orthoclase (?), becoming less noticeable with depth. Some defects fresh and clean, some with FeO staining. Mechanical Defects	FR					35.05-35.07 m: J, 15°, Pln, Ro 35.38-35.43 m: J, 45°, Pln, Ro 35.51-35.58 m: J, 45°, Pln, Ro 35.68-35.70 m: J, 35°, Pln, Ro, Cn		
•	95% RETURN	100	95	36.0 — - - - - 36.5 —		- + + - + + - + + - + + - + + - + + - +	Js; gentle moderate, (5-8/m), Und - Cvd, Sm, FeO Std Js; very steep, (1-2/m), Und - Stp, Sm - Ro, FeO Std.					UCS=169 I ₅₀ (A)>4.94	35.88-35.90 m: J, 15°, Pln, Ro, Cn 35.96-35.96 m: J, 0°, Pln, Ro, Cn 36.45-36.50 m: J, 44°, Pln, Ro		
	36			37.0		+ + + + + + - + + - + + - + + - + +							36.87-36.90 m: J, 33°, Pln, Ro 36.99-37.00 m: J, 19°, Cvd, Ro	-	
Spr	95% RETURN	100	95	37.5 —		- + + + + + + + + + + + + + + + + + + +							37.44-37.46 m: J, 21°, Pln, FeO Std 37.60-37.62 m: J, 25°, Pln, Ro, FeO Std 37.66-37.68 m: J, 25°, Pln, Ro, FeO Std 37.92-37.93 m: J, 21°, Pln, Std 37.98-37.99 m: J, 15°, Pln, Ro, FeO Std		
				38.5 —	39.00 166.07	+ + - + + - + + - + + - + + - + +	39.00 m: Majority of steep defects intact.						38.52-38.54 m: J, 20°, Pln, Ro 38.69-38.69 m: J, 0°, Pln, Ro 39.00-39.03 m: J, 20°, Pln, Ro		
	95% RETURN	100	100	39.5 — - - - -		- + + - + + - + + - + + - + + 							39.41-39.43 m: J, 20°, Pln, Ro 39.70-39.72 m: J, 25°, Und, Ro		



BOREHOLE: BQLA-04

CLIENT: SMEC COORDS: 658001.9 m 7662061.6 m GDA 2020 MGA Zone 55

SURFACE RL: 205.05 m DATUM: AHD

 LOCATION:
 Netherdale
 INCLINATION:
 -88° DIRECTION:
 184°

 JOB NO:
 23117.000.001
 HOLE DIA:
 96/100 mm
 HOLE DEPTH:
 40.07 m

SHEET: 10 OF 10
DRILL RIG: Hanjin D&B
CONTRACTOR: Twin Hills

JOB NO: 23117.000.001	HOLE DIA: 96/100 mm HOLE DEPTH: 40.07 m	CHECKED: SF DATE: 25/10/23
Drilling	Field Material Description	Defect Information
토정 > 무 포 造토 RL	MATERIAL DESCRIPTION MATERIAL DESCRIPTION MEANURE MINER MI	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached Detailed Defect Log for all recorded discontinuities and defects AVERAGE DEFECT SPACING (mm) (Iso14889:2017)
41.5 — 43.5 — 44	40.04 m - 40.06 m: Mafic (hornblende and mica) inclusion; fine grained, dark grey, sub-angular, sharp margins. END OF BOREHOLE @ 40.07 m TARGET DEPTH WIBRATING WIRE PIEZOMETER INSTALLED, LSINGLE SENSON AT 16.30 M DEPTH Borehole relocated due to limited access. Coordinate taken by hand-held GPD with the companying symbols and abbreviations us his log must be read in conjunction with accompanying symbols and abbreviations us	

JOB No.:	30032772
Client:	Queensland Hydro
Site:	Pioneer-Burdekin

Borehole ID:	BQLA-04	
Termination Depth:		40.07

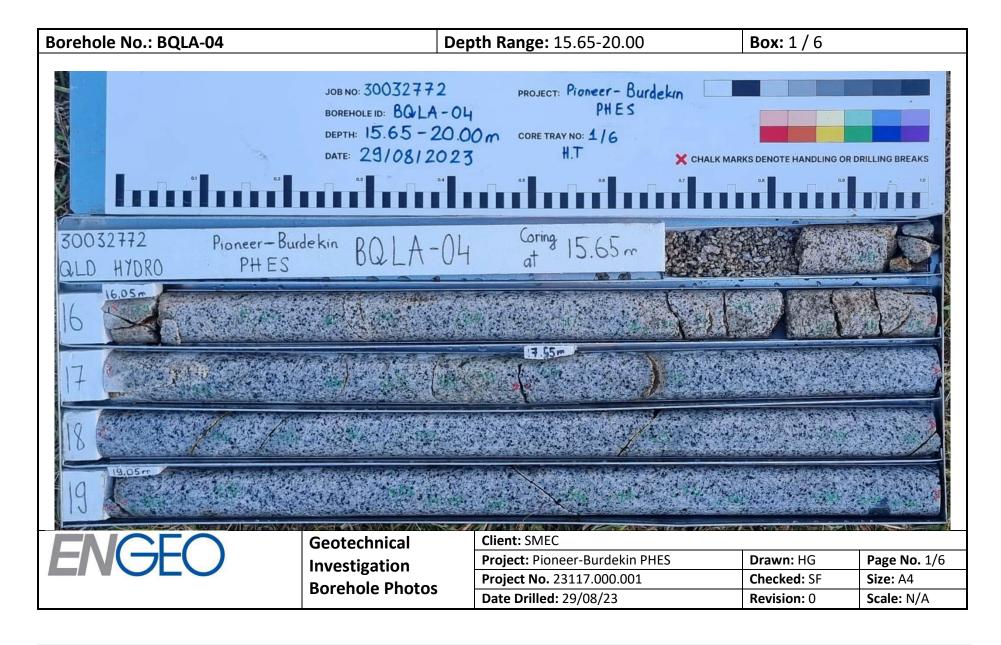
		Depth (m)		Tune	Angle (°)	Daughness	Chana	Infill	Mosthoring	Nature	Comments
Fr	om To	I	Midpoint	Туре	Angle (°)	Roughness	Shape	Intill	Weathering	Nature	Comments
Г	15.88	15.94	15.91	Joint	69	Rough	Undulating	FeO	Slightly Weathered	Intact	
	15.96	16.05	16.01	Joint	79	Smooth	Undulating	FeO	Moderately Weathered	Stain	
	15.97	15.97	15.97	Joint	15	Smooth	Undulating	FeO	Moderately Weathered	Stain	
	16.16	16.16	16.16	Joint	30	Smooth	Undulating	FeO	Moderately Weathered	Intact	
	16.17	16.18	16.18			Smooth	Undulating	FeO	Moderately Weathered	Intact	
	16.28	16.29	16.29			Smooth	Stepped	FeO		Stain	
	16.30	16.31	16.31			Rough	Undulating	FeO	Moderately Weathered	Stain	
	16.42	16.44	16.43			Rough	Undulating	FeO	Moderately Weathered	Intact	
	16.56	16.58	16.57			Smooth	Undulating	FeO	Moderately Weathered	Intact	
	16.63	16.64	16.64			Smooth	Undulating	FeO	Moderately Weathered	Intact	
	16.67	16.68	16.68			Smooth	Stepped	MnO	Moderately Weathered	Stain	
	16.71	16.72	16.72			Smooth	Undulating	MnO	Moderately Weathered	Stain	
1	16.74	16.74	16.74			Smooth	Undulating	FeO		Stain	
	16.80	16.81	16.81			Smooth	Undulating			Clean	
	16.87	16.88	16.88			Smooth	Curved	FeO	Moderately Weathered	Stain	
	16.92	16.92	16.92			Smooth	Undulating	FeO	•	Stain	
	16.92	16.96	16.94			Smooth	Undulating	FeO		Stain	
	16.95	17.07	17.01			Smooth	Planar	FeO	Moderately Weathered	Stain	
	16.98	16.98	16.98			Smooth	Curved	FeO	Moderately Weathered	Intact	
	17.26	17.28	17.27			Smooth	Curved	FeO	Moderately Weathered	Stain	
	17.34	17.37	17.36			Smooth	Curved	FeO	Moderately Weathered	Intact	
	17.39	17.40	17.40			Smooth	Stepped	FeO	Moderately Weathered	Stain	
	17.41	17.43	17.42			Smooth	Curved	Calcite	Slightly Altered	Intact	
1	17.50	17.62	17.56			Smooth	Curved	FeO		Stain	
	17.63	17.66	17.65			Smooth	Stepped	FeO	Moderately Weathered	Stain	
	18.10	18.14	18.12			Smooth	Undulating	FeO	•	Stain	
	18.19	18.22	18.21			Smooth	Undulating	FeO	Slightly Weathered	Stain	
	18.26	18.29	18.28			Smooth	Undulating	FeO	Slightly Weathered	Intact	
	18.33	18.38	18.36			Smooth	Undulating	FeO	Slightly Weathered	Intact	
	18.62	18.66	18.64			Smooth	Undulating	FeO	Slightly Weathered	Stain	
	18.84	18.88	18.86			Smooth	Undulating	FeO	Slightly Weathered	Intact	
	18.97	19.05	19.01			Smooth	Undulating	FeO	Slightly Weathered	Stain	
	19.01	19.05	19.03			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
	19.04	19.28	19.16			Smooth	Undulating	Calcite	Slightly Altered	Intact	
	19.34	19.53	19.44			Smooth	Undulating	FeO	Slightly Weathered	Intact	
	19.49	19.57	19.53			Smooth	Undulating		Slightly Weathered	Clean	
	19.55	19.62	19.59			Smooth	Undulating	Calcite	Slightly Altered	Intact	
	19.59	19.73	19.66			Smooth	Undulating	Calcite	Slightly Altered	Intact	
	19.69	19.82	19.76			Smooth	Undulating	Calcite	Slightly Altered	Intact	
	19.82	19.87	19.85			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
	20.00	20.04	20.02			Smooth	Stepped	Feldspar (Ca/Na)		Stain	
	20.20	20.22	20.21			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
	20.25	20.28	20.27			Smooth		Feldspar (Ca/Na)	Slightly Altered	Intact	
	20.28	20.35	20.32			Smooth	Stepped	Calcite	Slightly Altered	Intact	
	20.30	20.34	20.32			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
	20.45	20.48	20.47			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
	20.49	20.52	20.51			Rough	Stepped	r ciaspar (ca) rra)	Slightly Weathered	Clean	
	20.72	20.77	20.75			Rough	Stepped	Feldspar (Ca/Na)	Moderately Altered	Intact	
	20.80	21.02	20.91			Rough	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	
1	20.89	20.90	20.90			Rough	Undulating		Slightly Weathered	Clean	
	21.03	21.03	21.03			Rough	Stepped		Slightly Weathered	Clean	
1	21.07	31.11	26.09			Smooth	Undulating	Unidentifed mineral	Slightly Altered	Intact	
1	21.18	21.20	21.19			Rough	Curved	Feldspar (Ca/Na)	Slightly Altered	Intact	
1	21.38	21.40	21.39			Smooth	Stepped	Feldspar (Ca/Na)	Slightly Altered	Intact	
1	21.45	21.68	21.57					Feldspar (Ca/Na)	0 ,	Intact	

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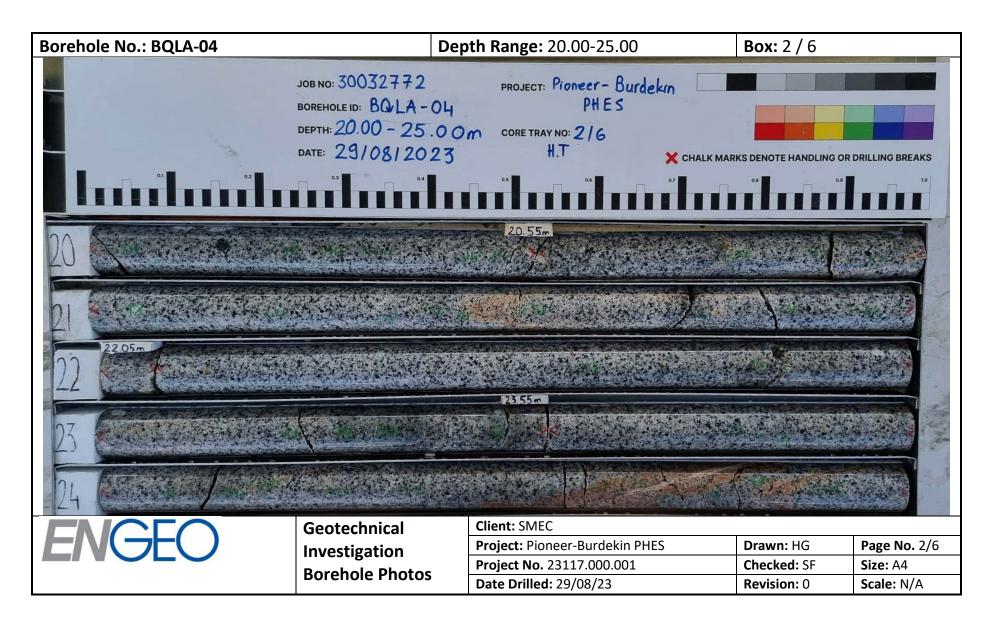
	Depth (m)		Typo	Angle (°)	Poughnoss	Shana	Infill	Weathering	Naturo	Commonto
From	То	Midpoint	Туре	Angle (°)	Roughness	Shape	1117111	Weathering	Nature	Comments
21.49	21.51	21.50	Joint	51	Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Stain	
21.70	21.73	21.72	Joint	51	Smooth	Planar	Feldspar (Ca/Na)	Slightly Altered	Stain	
21.79	21.80	21.80	Joint	21	Smooth	Undulating			Clean	
21.81	21.80	21.81		21	Smooth	Undulating		Slightly Weathered	Clean	
21.90	21.93		Joint	43	Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
22.55	22.57	22.56		39	Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	Hydrothermal
22.78			Joint		Rough	Stepped		Slightly Weathered	Clean	
23.21	23.31	23.26			Smooth	Undulating	Quartz	Slightly Altered	Intact	
23.23		23.24			Rough	Undulating	Feldspar (Ca/Na)	Slightly Altered	Stain	
23.30		23.32			Smooth	Undulating	Calcite	Slightly Altered	Intact	
23.46		23.48			Rough	Undulating		Slightly Weathered	Clean	
23.75		23.77			Rough	Curved	Calcite	Slightly Altered	Intact	
23.77	23.80	23.79			Smooth	Undulating	Calcite	Slightly Altered	Intact	
24.07			Joint		Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	
24.12 24.16	24.14 24.18	24.13	Joint Voin		Smooth Smooth	Undulating Undulating	Calcite Feldspar (Ca/Na)	Slightly Altered Slightly Altered	Stain Intact	
24.10	24.18	24.17			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
24.30		24.33			Smooth	Undulating	Quartz	Slightly Altered	Intact	
24.55	24.30	24.68			Smooth	Undulating	Calcite	Moderately Altered	Infilled	Hydrothermal
24.56		24.56			Smooth	Undulating	Caratte	Slightly Weathered	Clean	n yar sanermar
24.59		24.59			Smooth	Undulating		Slightly Weathered	Clean	
24.68			Joint		Rough	Stepped	Feldspar (Ca/Na)	Moderately Altered	Stain	
24.74	24.74	24.74			Smooth	Curved	Feldspar (Ca/Na)	Moderately Altered	Stain	
24.78	24.82	24.80			Smooth	Stepped	Feldspar (Ca/Na)	Moderately Altered	Stain	
24.82			Joint		Smooth	Stepped	Calcite	Moderately Altered	Intact	
25.06	25.25	25.16	Other Refer Comments	68	Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	Hydrothermal
25.34		25.38		62	Smooth	Undulating	Calcite	Slightly Altered	Intact	·
25.41	25.43	25.42	Joint	19	Rough	Undulating	Feldspar (Ca/Na)	Slightly Altered	Stain	
25.42	25.48	25.45	Vein	53	Smooth	Undulating	Calcite	Moderately Altered	Intact	
25.51	25.56	25.54	Joint	44	Smooth	Undulating	Calcite	Slightly Altered	Intact	
25.60	25.64	25.62		45	Smooth	Stepped		Slightly Weathered	Clean	
25.67	25.67	25.67		9	Smooth	Undulating		Slightly Weathered	Clean	
25.68			Joint		Smooth	Undulating		Slightly Weathered	Clean	
25.71	25.77	25.74			Smooth	Undulating	Calcite	Slightly Altered	Intact	
25.83	25.86	25.85			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Stain	
25.93			Joint		Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
26.14			Joint		Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Stain	
26.33 26.59	26.37 26.63	26.35 26.61			Rough Smooth	Undulating Stepped	Feldspar (Ca/Na)	Slightly Altered Slightly Weathered	Intact Clean	Drill break¿
26.86		26.92			Smooth	Undulating	Calcite	Highly Altered	Intact	Dilli Di Canç
27.40	27.42		Other Refer Comments	'2	311100011	Ondulating	Calcite	Inginy Altereu	intact	Mafic inclusion
27.52	27.42	27.62		68	Smooth	Undulating	Feldspar (Ca/Na)	Highly Altered	Intact	ividite illetasion
27.74	27.76	27.75			Smooth	Undulating	Unidentifed mineral	Slightly Altered		Dark grey colour
27.91		27.91				Stepped	Feldspar (Ca/Na)	Moderately Altered	Stain	- ·
28.16	28.18	28.17			Smooth	Stepped	Calcite	Moderately Altered	Filled	
28.24	28.25	28.25		6	Smooth	Undulating	Calcite	Slightly Altered	Intact	
28.35			Joint	38	Smooth	Undulating		Slightly Altered	Intact	
28.49		28.52			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
28.66			Joint	27	Smooth	Undulating			Clean	
28.67	28.88		Weathered Zone		Smooth	Undulating		Slightly Weathered	Clean	
28.69		28.70	Joint		Smooth	Undulating		Slightly Weathered	Clean	
28.76		28.72			Smooth	Undulating		Slightly Weathered	Clean	
28.88			Joint		Smooth	Undulating	L.,	Slightly Weathered	Clean	
28.90		28.91			Rough	Stepped	Feldspar (Ca/Na)	Moderately Altered	Stain	
28.91		28.94			Smooth	Undulating	Calcite	Moderately Altered	Intact	
29.03			Joint	14	Smooth	Planar		Slightly Weathered	Clean	
29.44	29.45		Joint		Smooth	Undulating	Foldonos (C- /N-)	Slightly Weathered	Clean	
29.73	29.75 29.61	29.74 29.75			Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
29.88 29.93					Smooth	Undulating Undulating	Calcite Calcite	Slightly Altered Moderately Altered	Intact Infilled	
29.93	29.96	29.95	vein	1 21	Smooth	Ondulating	Calcite	INIQUEI ately Altered	mmea	ı

	Depth (m)		Typo	Angle (°)	Roughness	Shape	Infill	Weathering	Naturo	Comments
From	То	Midpoint	Туре	Angle (°)	Rouginess	Shape	1/11111	Weathering	Nature	Comments
30.05	30.07	30.06	Joint	41	Smooth	Stepped	Feldspar (Ca/Na)	Slightly Altered	Stain	
30.49	30.53	30.51	Joint	39	Smooth	Stepped		Slightly Altered	Intact	
30.49	30.56	30.53	Joint	72	Rough	Undulating	Calcite	Slightly Altered	Intact	
30.54	30.57	30.56	Joint	36	Rough	Undulating	Calcite	Slightly Altered	Intact	
30.61	30.63	30.62	Joint	19	Rough	Stepped		Slightly Weathered	Clean	
30.72	30.84	30.78	Joint	81	Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	
30.86	30.60	30.73	Vein	63	Smooth	Undulating	Calcite	Moderately Altered	Intact	
30.90	30.90	30.90	Joint	5	Rough	Irregular		Slightly Weathered	Clean	
30.92	30.93	30.93	Joint	26	Smooth	Undulating		Slightly Weathered	Intact	
31.07	31.07	31.07	Joint	2	Rough	Undulating	Feldspar (Ca/Na)	Slightly Weathered	Stain	
31.28	31.32		Joint	44	Smooth	Stepped	Feldspar (Ca/Na)	Moderately Altered	Stain	
31.33	31.36	31.35	Joint	34	Smooth	Undulating	Pyrite	Slightly Altered	Intact	
31.36	31.60	31.48	Sheared - Zone	89	Smooth	Undulating	Calcite	Moderately Altered	Intact	SZ, 89°, Und, Sm, CA, IT, 240mm aperture. 8x healed joints within the zone.
31.58	31.61	31.60	Joint	34	Smooth	Undulating		Slightly Weathered	Clean	
31.62	31.95	31.79	Sheared - Zone	89	Smooth	Undulating	Calcite	Moderately Altered	Intact	SZ, 89°, Und, Sm, CA, IT, 330mm aperture. 7x healed joints within the zone.
31.94	31.98	31.96	Joint	34	Smooth	Undulating		Slightly Weathered	Clean	
32.02	32.25	32.14	Vein	76	Smooth	Undulating	Calcite	Moderately Altered	Intact	
32.22	32.23	32.23	Joint	16	Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Stain	
32.22	32.55	32.39	Joint	83	Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	
32.24			Joint	60	Smooth	Undulating	Feldspar (Ca/Na)	Slightly Altered	Intact	
32.49	32.53	32.51	Joint	40	Smooth	Undulating		Slightly Altered	Clean	
32.55	32.70	32.63	Joint	83	Smooth	Undulating	Calcite	Moderately Altered	Intact	
32.63	32.67	32.65	Joint	26	Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	
32.70	32.72	32.71	Joint	21	Smooth	Undulating	Feldspar (Ca/Na)	Moderately Altered	Intact	
32.77	33.01	32.89	Joint	79	Smooth	Undulating	Calcite	Slightly Altered	Intact	
32.83	32.87	32.85	Joint	54	Smooth	Undulating		Slightly Weathered	Clean	
32.90	32.94	32.92	Joint	44	Smooth	Undulating		Slightly Weathered	Clean	
33.02	33.08	33.05	Joint	59	Smooth	Undulating	Pyrite	Slightly Altered	Intact	
33.03	33.40	33.22	Joint	89	Smooth	Irregular	Pyrite	Slightly Altered	Intact	
33.38	33.60	33.49	Drilling Break							Non-intact
33.40	33.40	33.40	Joint	1	Smooth	Curved		Slightly Weathered	Clean	
33.60	34.00	33.80	Vein	89	Smooth	Undulating	Calcite	Moderately Altered	Intact	
33.88	33.91	33.90	Joint	25	Smooth	Undulating	Pyrite	Slightly Altered	Intact	
34.07	34.19	34.13	Joint	20	Rough	Planar		Slightly Altered		Pinkish stains along joint, 10mm wide each side.
34.14	34.59	34.37	Joint	90	Rough	Undulating			Intact	
34.17	34.21	34.19	Joint	40	Rough	Planar		Slightly Altered		
34.26	34.33	34.30	Joint	40	Rough	Planar			Intact	
34.44	34.52	34.48	Joint		Rough	Planar			Intact	
34.44	34.54	34.49	Joint	71	Rough	Planar			Intact	
34.53		34.56	Joint		Rough	Planar		l	Intact	
34.70			Joint	10	Rough	Curved		Slightly Altered		
35.05			Joint		Rough	Planar				
35.38		35.41		45	Rough	Planar		Slightly Altered		
35.51			Joint	45	Rough	Planar		Slightly Altered		
35.57	35.63		Joint	50	Rough	Planar			Intact	
35.58			Joint		Rough	Planar		Slightly Altered	Intact	
35.68			Joint		Rough	Planar		l	Clean	
35.88			Joint		Rough	Planar			Clean	
35.96	35.96		Joint	0	Rough	Planar			Clean	
36.45	36.50		Joint	44	Rough	Planar		Slightly Altered		
36.87		36.89			Rough	Planar		Slightly Altered		
36.99			Joint		Rough	Curved		Slightly Altered		
37.44			Joint	21	l	Planar	FeO	Slightly Weathered	Stain	
37.60			Joint		Rough	Planar	FeO	Slightly Weathered	Stain	
37.66			Joint	25	Rough	Planar	FeO	Slightly Weathered	Stain	
37.92	37.93		Joint	21		Planar		Slightly Weathered	Stain	
37.95			Joint	80	l	Planar		Slightly Weathered	Intact	
37.98			Joint		Rough	Planar	FeO	Slightly Weathered	Stain	
38.41		39.24			Rough	Planar		Slightly Altered	Intact	Continues beyond base of hole.
38.52	38.54	38.53	Joint	20	Rough	Planar		Slightly Altered	I	

		Depth (m)		Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
Fron	n To	Mic	dpoint	туре	Aligle ()	Rougilless	Shape	""""	Weathering	Nature	Comments
	38.69	38.69	38.69	Joint	0	Rough	Planar		Slightly Altered		
	38.72	38.79	38.76	Joint	45	Rough	Planar			Intact	
نه	39.00	39.03	39.00	Joint	20	Rough	Planar		Slightly Altered		
age	39.22	39.26	39.24	Joint	30	Rough	Planar		Slightly Altered	Intact	
۵.	39.25	39.27	39.26	Joint	20	Rough	Planar		Slightly Altered	Intact	
Je	39.41	39.43	39.41		20	Rough	Planar		Slightly Altered		
<u> </u>	39.54	39.57	39.56	Joint	25	Rough	Planar		Slightly Altered	Intact	
-	39.62	39.63	39.63	Joint	10	Rough	Planar		Slightly Altered	Intact	
e l	39.70	39.72	39.70	Joint	25	Rough	Undulating		Slightly Altered		
<u> </u>	39.88	40.05	39.97	Joint	70	Rough	Planar		Slightly Altered	Intact	



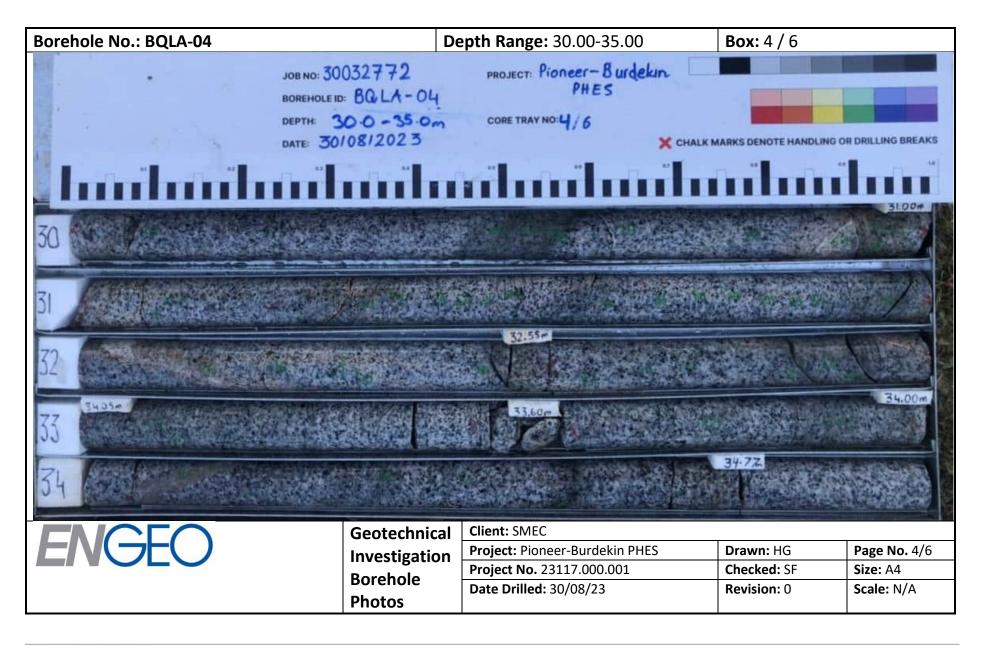




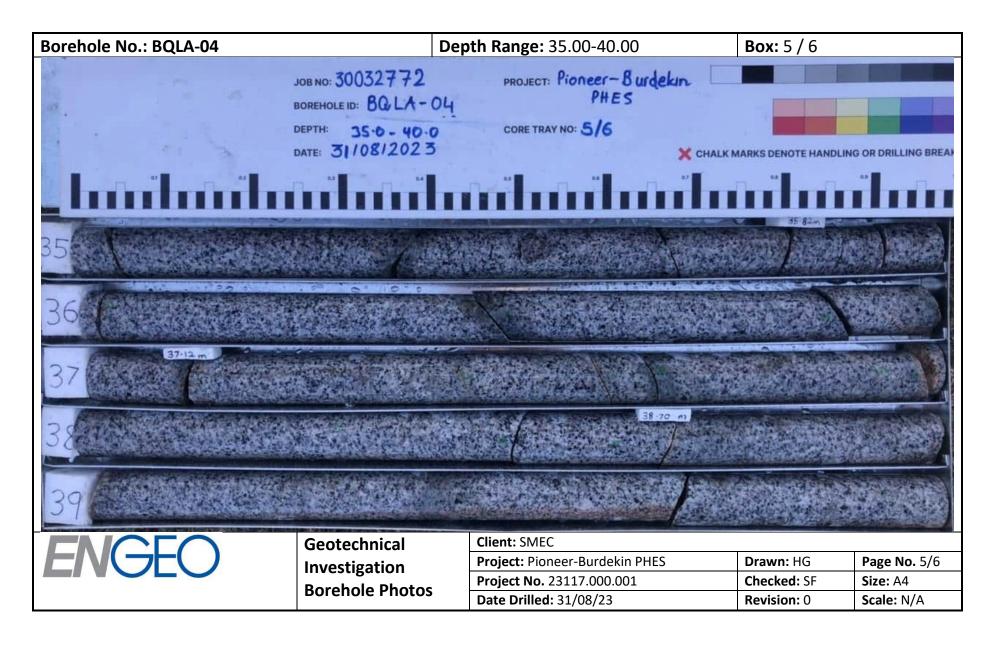




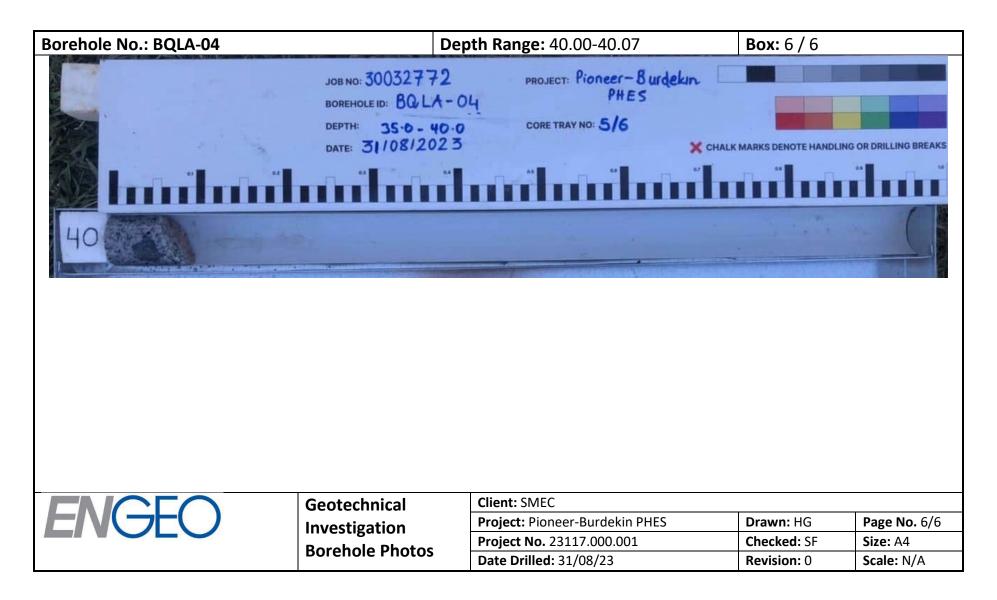














COMPOSITE LOG





BQLA_04 Drill Depth Logging Unit Field FUNGELLA Bit Size Collar Easting 658002m JORDAN TEICHRIB 17/07/2023 TIM HARDIGAN Log Date Casing Type STEEL Collar Northing 7662057m Client Representative PIONEER-BURDEKIN Casing Depth 14.6m Reduced Level Service Type Televiewer Interpretation FEATURES & TADPOLES TELEVIEWER LOGS STRUCTURAL LOGS ATV Amplitude Image Amplitude Apparent Dip Feature Picks DIPA TT-CENT Centralised ATV Travel Time Image (Sinusoid Presentation) Partially Open Fracture Closed Fracture Foliation/Banding/Bedding Healed Fracture/Vein 3D Televiewer Image True Dip Feature Picks DIPT Acoustic Travel Time Caliper Caliper TT-CENT (Tadpole Presentation) Rose Diagram - Strike Open Fract. OTV Picture Optical Televiewer Image RD - STRIKE (Arrows represent Mean Vector) FULL WAVFORM SONIC LOG & MECHANICAL PROPERTIES Polar Projection - Dip (Schmidt) STC-MP Monopole Slowness-Time-Coherence Project (Lower Hemisphere) DTC STRUCTURAL ANALYSIS LOGS COMMENTS Shear wave slowness RQD Rock Quality Designation Compressional wave velocity Image and azimuth data are presented oriented to True north. The magnetic declination correction is +8.12 degrees. (Partial) Open Apparent Fracture Density (Partial) Open True Fracture Density vs Shear wave velocity AFD Compressional to Shear wave velocity ratio TFD Rock Quality Designation (RQD) is the (Sum of length of image interval sections of more than 10 cm length unaffected by open fractures, faults & breakouts) divided by the (Total length of the interval) times (100%). RQD has been calculated for one meter intervals. UCS Uniaxial (Unconfined) Compressive Strengt RHI Rock Hardness Index Poisson's Ratio Indicator of material elastic deformation Young's Modulus Material length change by applied stress GEOPHYSICAL AND VERTICALITY LOGS **Bulk Modulus** Change in material volume by applied stres Density Log The STC-MP track was produced by processing the RX1-1A (60 cm), RX2-1A (80 cm), RX3-1A (100 cm) and RX4-1A (120 cm) receiver data after applying a moving average filter, stacking and a frequency filter. GAMMA Natural Gamma Ray

Tilt

IMPORTANT NOTE

Δzimuth

CALIPER

Hole Inclination (0 = Vertical Down)

Hole Azimuth

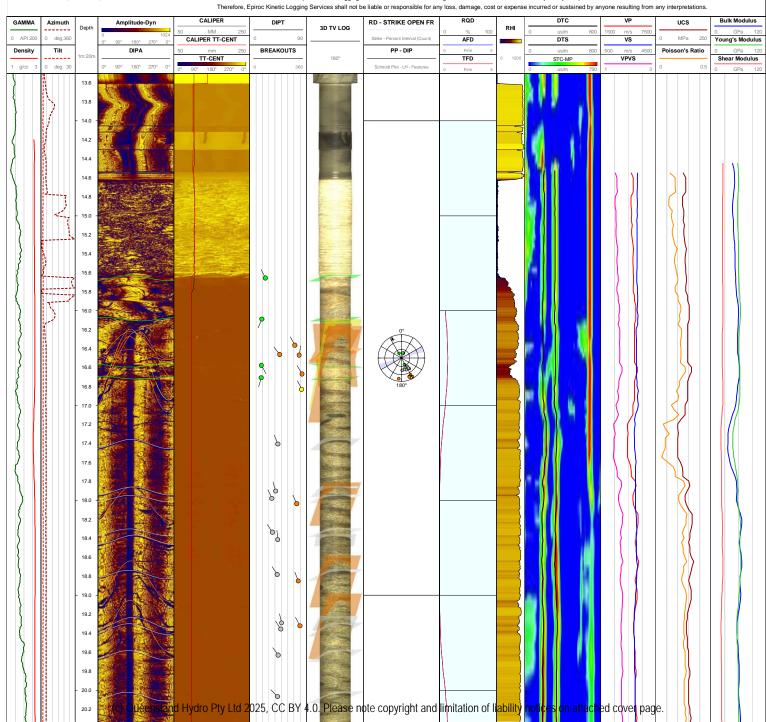
Mechanical Calipe

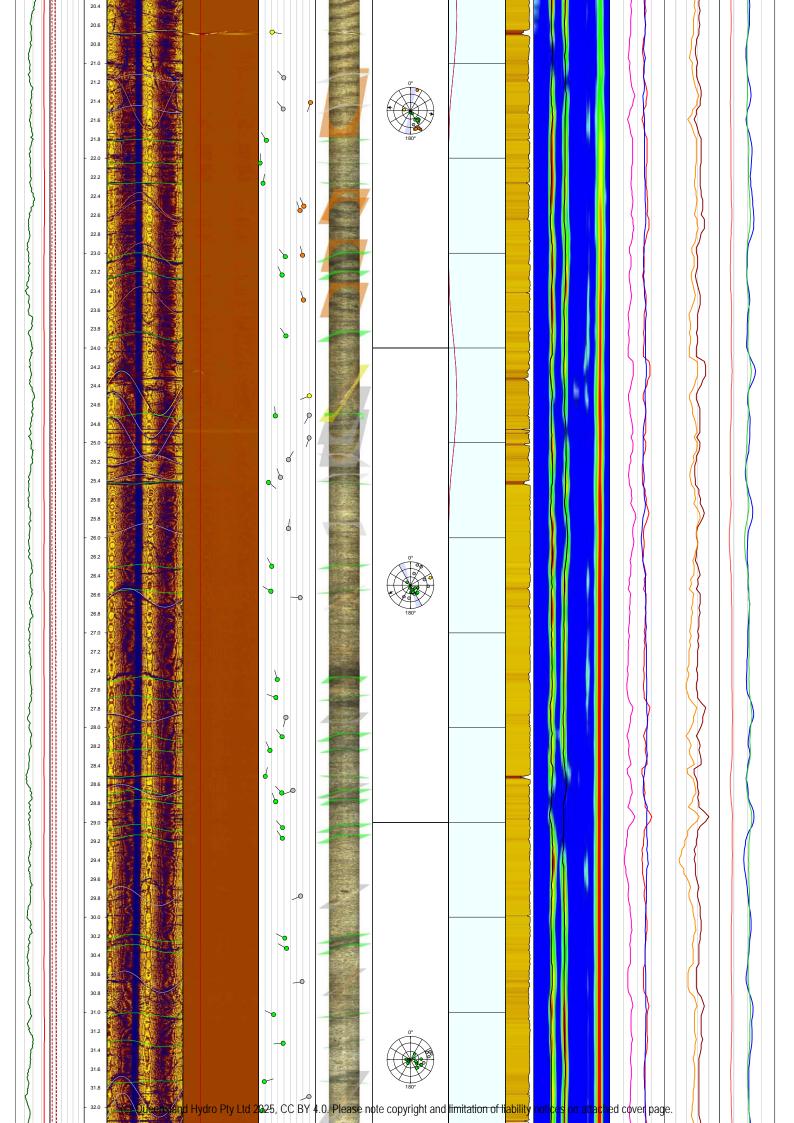
The following interpretations are opinions based upon inferences from borehole logs,

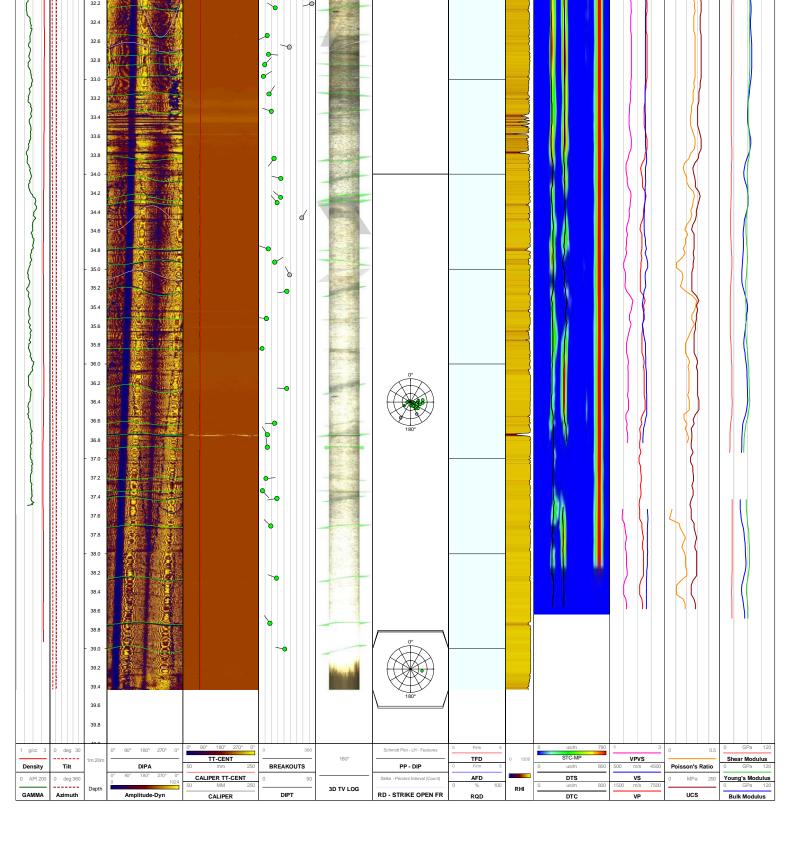
Uniaxial Compressive Strength (UCS) was calculated using an exponential trendline between DTC and UCS (McNally, 1987): UCS = 1200 * exp(-0.036 * DTC), with UCS in MPa and DTC in µs/m units.

Poisson's Ratio was calculated from DTC, DTS & Density estimated as ρ = 0.31.Vp exp(1/4)

Epiroc Kinetic Logging Services cannot and does not guarantee the correctness or accuracy of any interpretations.







BOLA 04 Televiewer Structures

Feature Depth	Depth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
m	m	deg	deg	mm	deg		
15.66	15.66	333.94	25	0		4	Foliation/Banding/Bedding
16.09	16.09	203.89	19.25	0		4	Foliation/Banding/Bedding
16.37	16.37	331.55	71.33	0		3	Closed Fracture
16.46	16.46	323.47	47.54	0		3	Closed Fracture
16.47	16.47	7.58	78.23	0		3	Closed Fracture
16.58	16.58	152.04	18.6	0		4	Foliation/Banding/Bedding
16.67	16.67	329.17	82.8	0		3	Closed Fracture
16.71	16.71	196.52	18.21	0		4	Foliation/Banding/Bedding
16.83	16.57	334.21	82.34	0	271.58-352.58	2	Partially Open Fracture
17.41	17.41	336.56	44.61	0		5	Healed Fracture/Vein
17.9	17.9	343.77	40.95	0		5	Healed Fracture/Vein
17.98	17.98	335.75	35	0		5	Healed Fracture/Vein
18.04	18.04	336.77	74.29	0		3	Closed Fracture
18.34	18.34	326.17	36	0		5	Healed Fracture/Vein
18.41	18.41	354.94	44.27	0		5	Healed Fracture/Vein
18.78	18.78	325.56	43.58	0		5	Healed Fracture/Vein
18.85	18.85	337.2	76.72	0		3	Closed Fracture
19.29	19.29	347.59	50.46	0		5	Healed Fracture/Vein
19.32	19.32	331.56	79.51	0		3	Closed Fracture
19.36	19.36	325.3	49.31	0		5	Healed Fracture/Vein
19.63	19.63	323.18	45.42	0		5	Healed Fracture/Vein
20.07	20.07	316.29	44.24	0		5	Healed Fracture/Vein
20.67	20.67	98.97	21.34	0	9.30-288.30	2	Partially Open Fracture
21.15	21.15	317.67	39.96	0			Healed Fracture/Vein
21.41	+	198.62	81.77	0		3	Closed Fracture
21.48	+	320.96	38.81	0		5	Healed Fracture/Vein
21.81	21.81			0		4	Foliation/Banding/Bedding
22.05	+		2.25				Foliation/Banding/Bedding
22.26			6.94			_	Foliation/Banding/Bedding
22.51	+		71.27	0			Closed Fracture
22.55	 		65.5	0			Closed Fracture
23.02	+		69.5	0		_	Closed Fracture
23.04	1		41.9	0			Foliation/Banding/Bedding
23.23	+		37.09				Foliation/Banding/Bedding
23.49	+		70.84	0			Closed Fracture
23.87	+	325.02	43.09	0			Foliation/Banding/Bedding
24.51	+		80.08	0	220.43-107.93		Partially Open Fracture
24.71	1		80.1	0			Healed Fracture/Vein
24.72	+		26.37	0			Foliation/Banding/Bedding
24.95	<u> </u>		79.86				Healed Fracture/Vein
25.18	+			0			Healed Fracture/Vein
25.36	 		34.59				Healed Fracture/Vein
25.42	<u> </u>		15.61	0		_	Foliation/Banding/Bedding
25.42	+						Healed Fracture/Vein
26.3	 		20.65				Foliation/Banding/Bedding

Feature Depth	Denth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
m	m	deg	deg	mm	deg	1900	1 datares
26.56	-	300.83		0	406	4	Foliation/Banding/Bedding
26.63	26.63	274.17	65.62	0			Healed Fracture/Vein
27.49		344.2	29.39	0		4	Foliation/Banding/Bedding
27.68	-	289.5	27.33	0			Foliation/Banding/Bedding
27.89	27.89	197.54		0			Healed Fracture/Vein
28.1	28.1	321.63		0			Foliation/Banding/Bedding
28.24	28.24	335.63	17.67	0			Foliation/Banding/Bedding
28.52	28.52	11.25	10.56	0			Foliation/Banding/Bedding
28.66	28.66	248.6	54.19	0		5	Healed Fracture/Vein
28.69	28.69	315.88	36.74	0		4	Foliation/Banding/Bedding
28.78	28.78	338.03	27.1	0		4	Foliation/Banding/Bedding
29.06	29.06	316.59	37.94	0		4	Foliation/Banding/Bedding
29.17	29.17	323.24	37.62	0		4	Foliation/Banding/Bedding
29.78	29.78	246.44	66.28	0		5	Healed Fracture/Vein
30.22	30.22	296.8	41.32	0		4	Foliation/Banding/Bedding
30.33	30.33	298.14	44.02	0		4	Foliation/Banding/Bedding
30.68	30.68	261.04	68.74	0		5	Healed Fracture/Vein
31.03	31.03	294.99	23.68	0		4	Foliation/Banding/Bedding
31.33	31.33	266.11	38.61	0		4	Foliation/Banding/Bedding
31.73	31.73	72.7	9	0		4	Foliation/Banding/Bedding
31.89	31.89	248.24	79.42	0		5	Healed Fracture/Vein
32.04	32.04	79.72	6.14	0		4	Foliation/Banding/Bedding
32.2	32.2	254.63	84.24	0		5	Healed Fracture/Vein
32.25	32.25	302.56	25.98	0		4	Foliation/Banding/Bedding
32.54	32.54	244.46	13.44	0		4	Foliation/Banding/Bedding
32.66	32.66	284.33	48.71	0		5	Healed Fracture/Vein
32.74	32.74	94.21	15.62	0		4	Foliation/Banding/Bedding
32.85	32.85	41.26	9.56	0		4	Foliation/Banding/Bedding
32.97	32.97	59.01	7.59	0		4	Foliation/Banding/Bedding
33.16	33.16	33.49	16.49	0		4	Foliation/Banding/Bedding
33.34	33.34	290.39	20.12	0		4	Foliation/Banding/Bedding
33.84	33.84	218.23	24.37	0		4	Foliation/Banding/Bedding
34.05	34.05	285.28	35.22	0		4	Foliation/Banding/Bedding
34.25	-	310.09		0			Foliation/Banding/Bedding
34.3		319.46		0			Foliation/Banding/Bedding
34.46		31.38		0			Healed Fracture/Vein
34.79				0			Foliation/Banding/Bedding
34.93		59.32	25.4	0			Foliation/Banding/Bedding
35.06		332.07	48.78	0			Healed Fracture/Vein
35.23		261.34		0			Foliation/Banding/Bedding
35.52		277.43		0			Foliation/Banding/Bedding
35.84		260.4		0			Foliation/Banding/Bedding
36.26							Foliation/Banding/Bedding
36.63		269.86		0			Foliation/Banding/Bedding
36.75		327.52		0			Foliation/Banding/Bedding
36.88	36.88	351.29	13.71	0		4	Foliation/Banding/Bedding

Feature Depth	Depth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
m	m	deg	deg	mm	deg		
37.21	37.21	84.61	11.25	0		4	Foliation/Banding/Bedding
37.34	37.34	136.77	6.03	0		4	Foliation/Banding/Bedding
37.42	37.42	260.55	28.68	0		4	Foliation/Banding/Bedding
37.71	37.71	314.71	19.12	0		4	Foliation/Banding/Bedding
38.26	38.26	292.16	28.29	0		4	Foliation/Banding/Bedding
38.73	38.73	325.65	17.69	0		4	Foliation/Banding/Bedding
39.01	39.01	279.87	41.55	0		4	Foliation/Banding/Bedding



BQLA_04

SMEC - Pioneer-Burdekin

Acoustic and Optical Televiewer image log Schmidt Stereonet evaluation for interpreted log interval

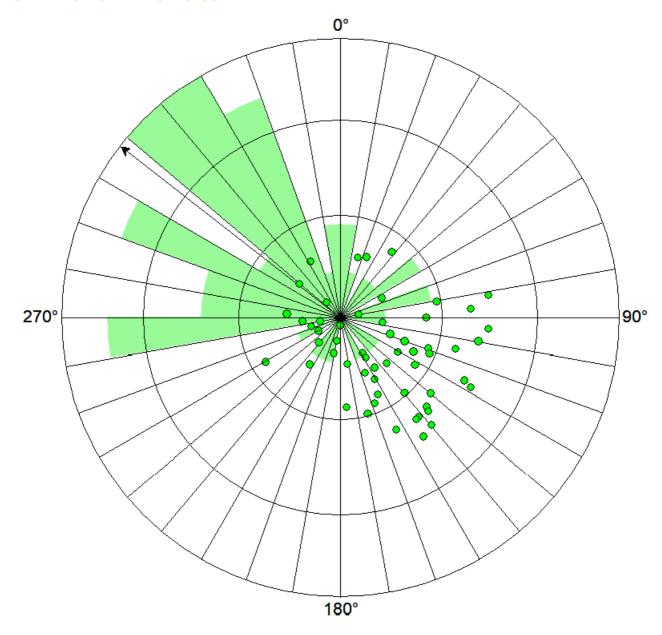
Log Date: 17 July 2023

IMPORTANT NOTE

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FOLIATIONS – 14.6 TO 39.4 M

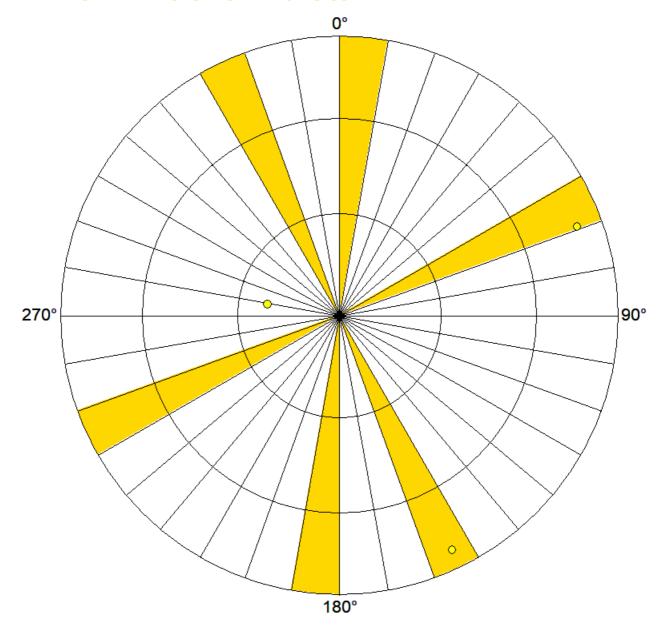


	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	56	16.49	307.82	37.82 - 217.82

Foliations: Scattered dip azimuth directions with a broad preference in the W to NNW dip azimuth directions



PARTIAL OPEN FRACTURES - 14.6 TO 39.4 M

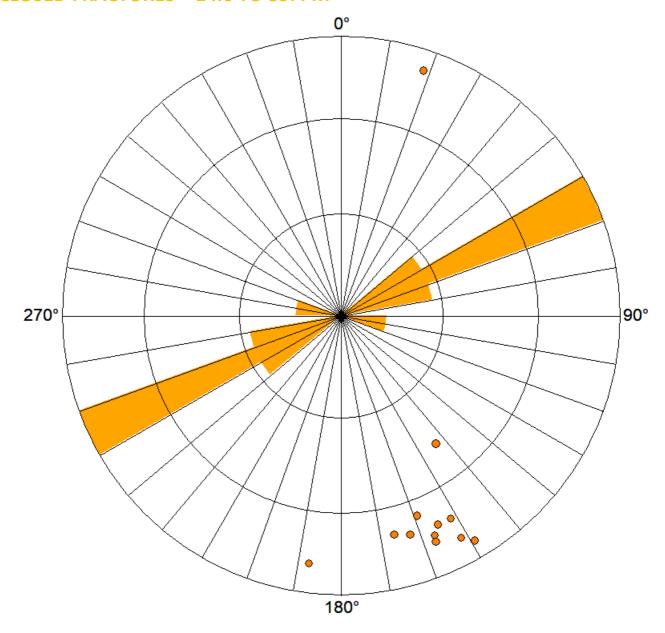


	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	3	70.39	104.93	14.93 - 194.93

Partial Open Fractures: Scattered strike directions (caution: small number of picks)



CLOSED FRACTURES – 14.6 TO 39.4 M

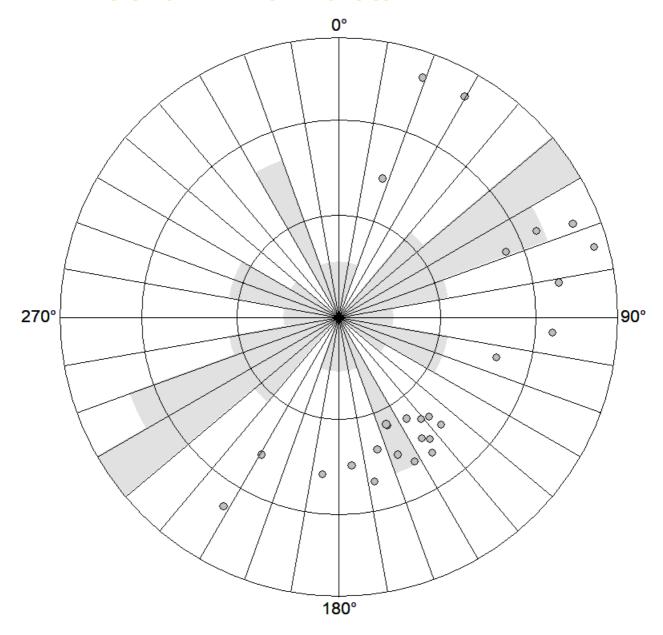


	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	12	72.94	340.82	70.82 - 250.82

Open Fractures: Preferred ENE to WSW strike direction



HEALED FRACTURES AND VEINS – 14.6 TO 39.4 M



	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	27	41.08	323.16	53.16 - 233.16

Healed Fractures and Veins: Scattered strike directions with a preference in the ENE to WSW strike direction



OPTV & BHTV LOG BQLA_04

WELL

BQLA_04

FIELD

PIONEER-BURDEKIN

LOCATION

EUNGELLA

UWI

SV013

COUNTRY **AUSTRALIA** **DRILL DEPTH**

BIT SIZE

40m 96mm

CASING WEIGHT STEEL

CASING SIZE

101mm

CASING BOTTOM 10m

DATE

17/07/2023

CLIENT REP

TIM HARDIGAN

ENGINEER

JRT

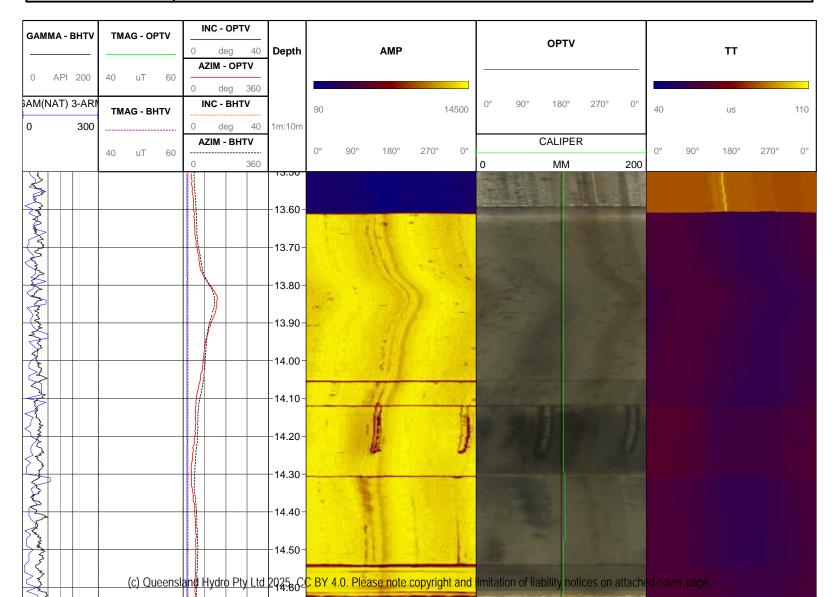
EASTING 658002

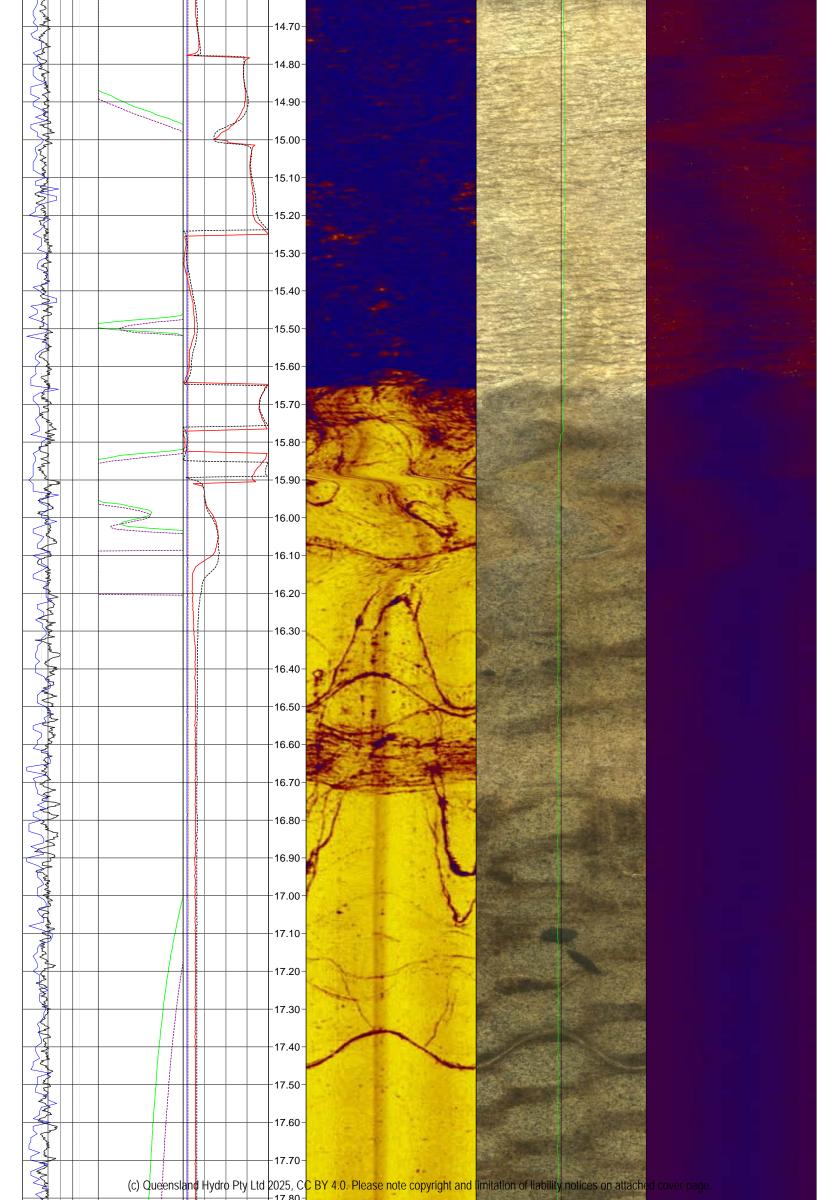
NORTHING 7662057

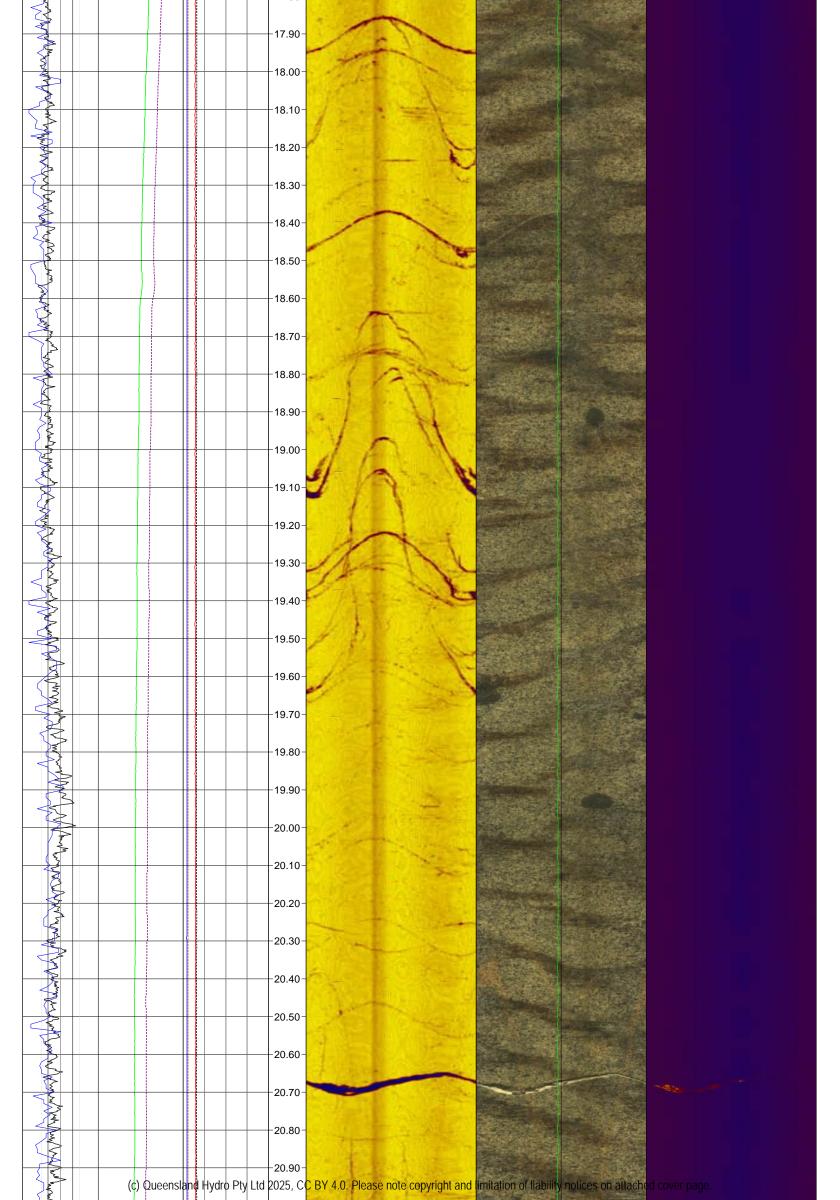
COMMENTS TELEVIEWER LOGS Borehole Inclination **GAMMA** Televiewer Gamma RayINC (0 deg = Vertical Down) **OPTV OPTV RGB Image AZIM** Borehole Magnetic Azimuth All image log data is oriented to true north. The applied magnetic declination correction is 8.12 degrees. **AMP HGDELTA** Potential Field **BHTV** Amplitude TT **BHTV Travel Time TMAG** Televiewer Magnetic Field

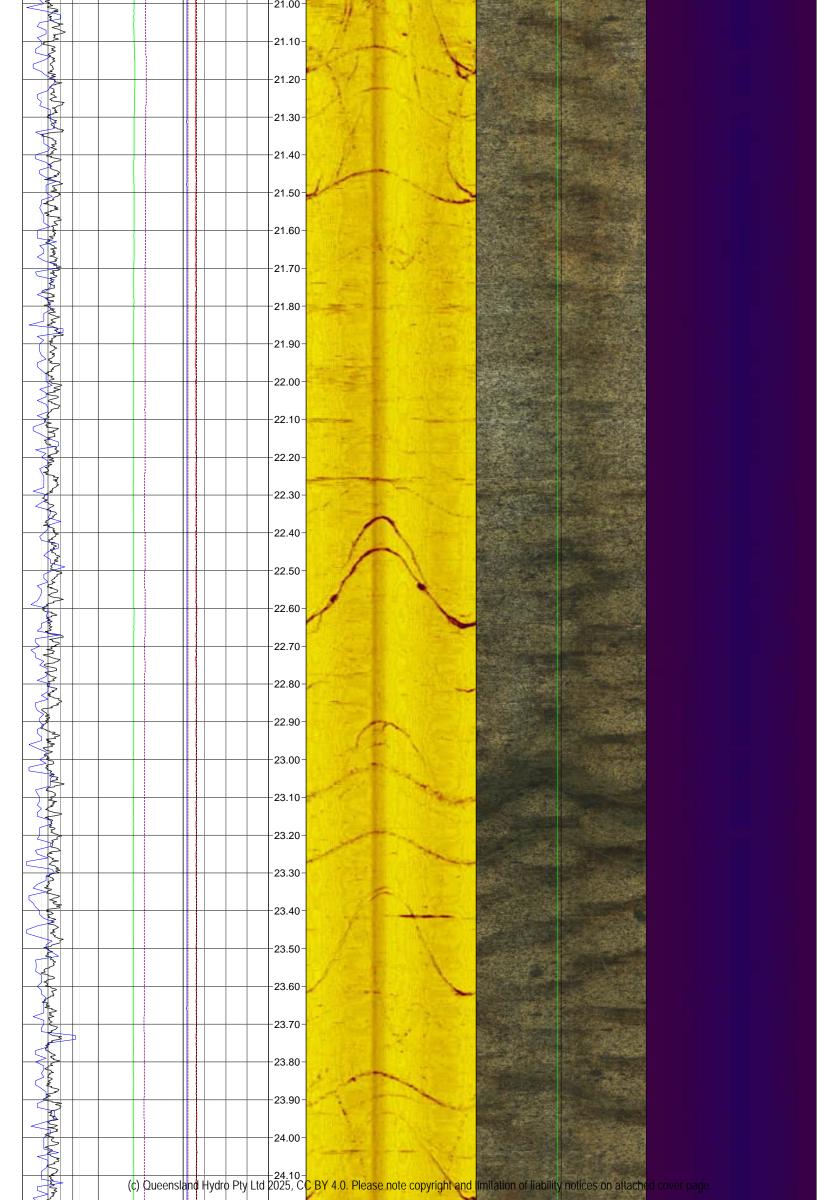
IMPORTANT NOTE

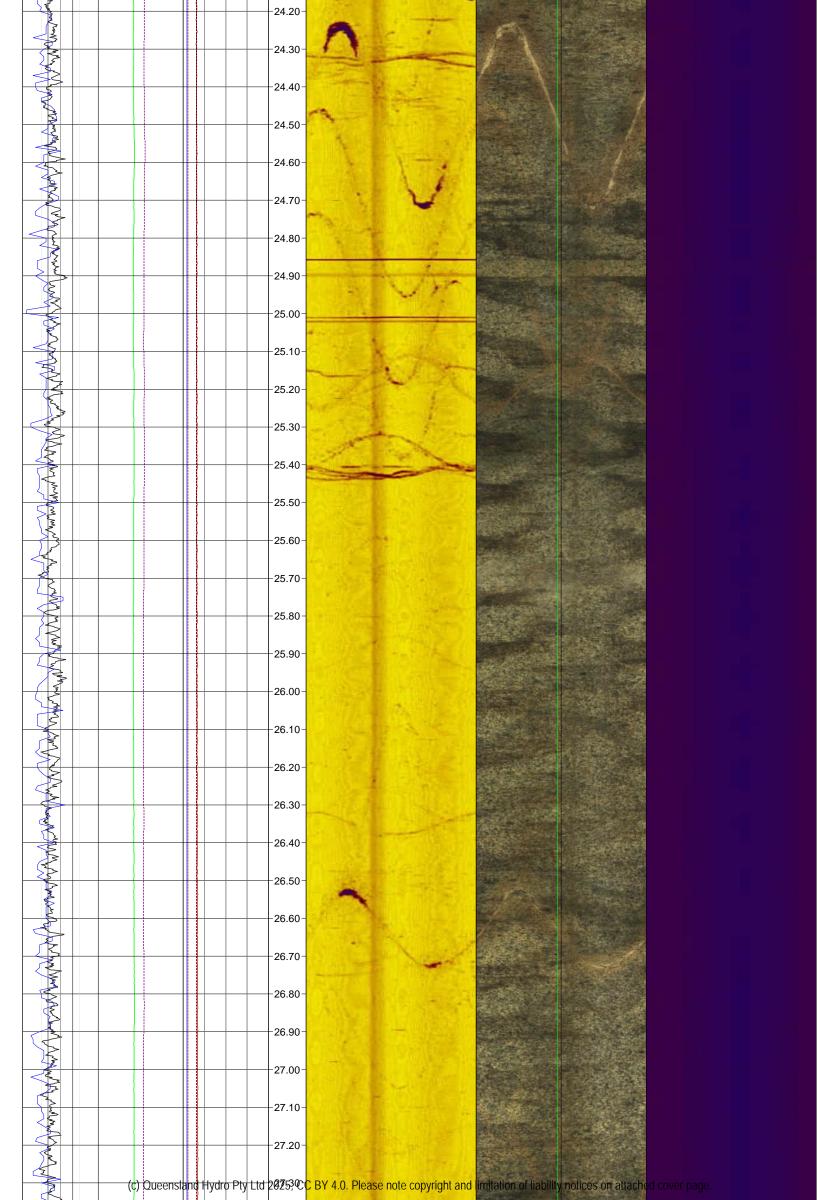
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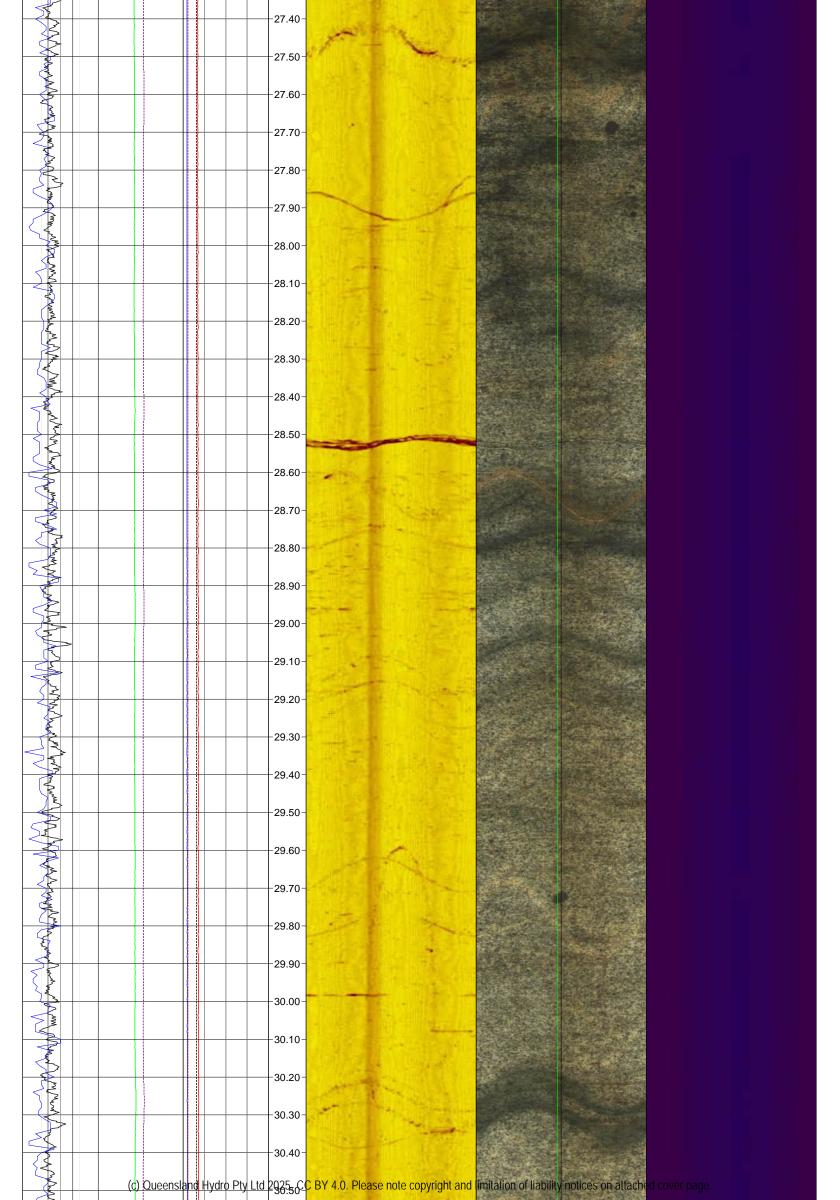


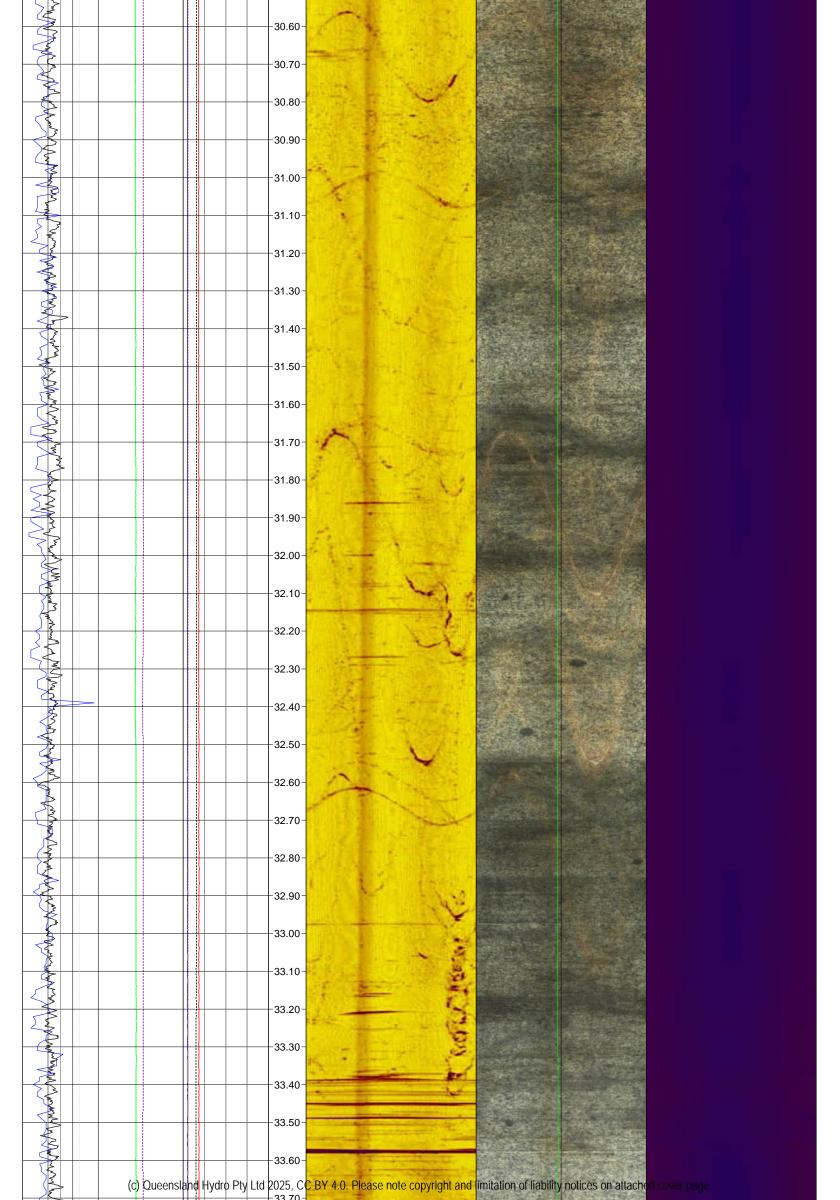


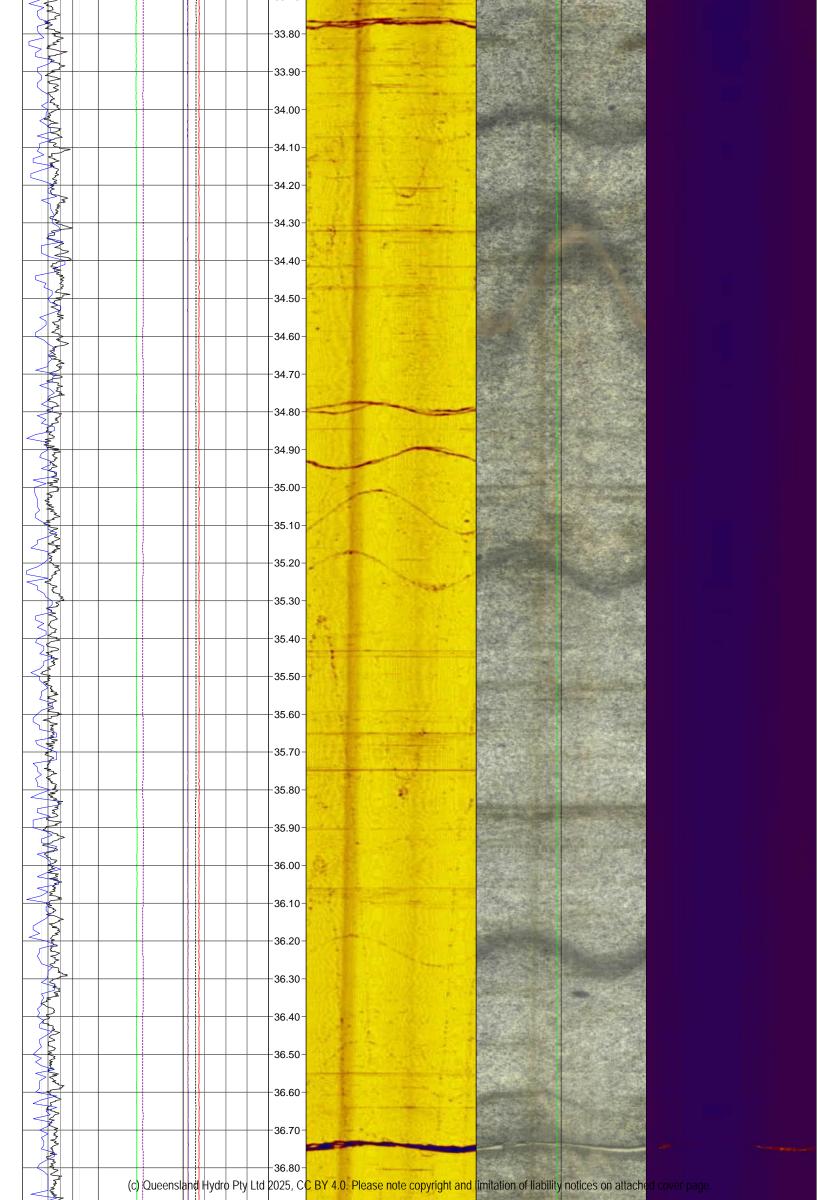


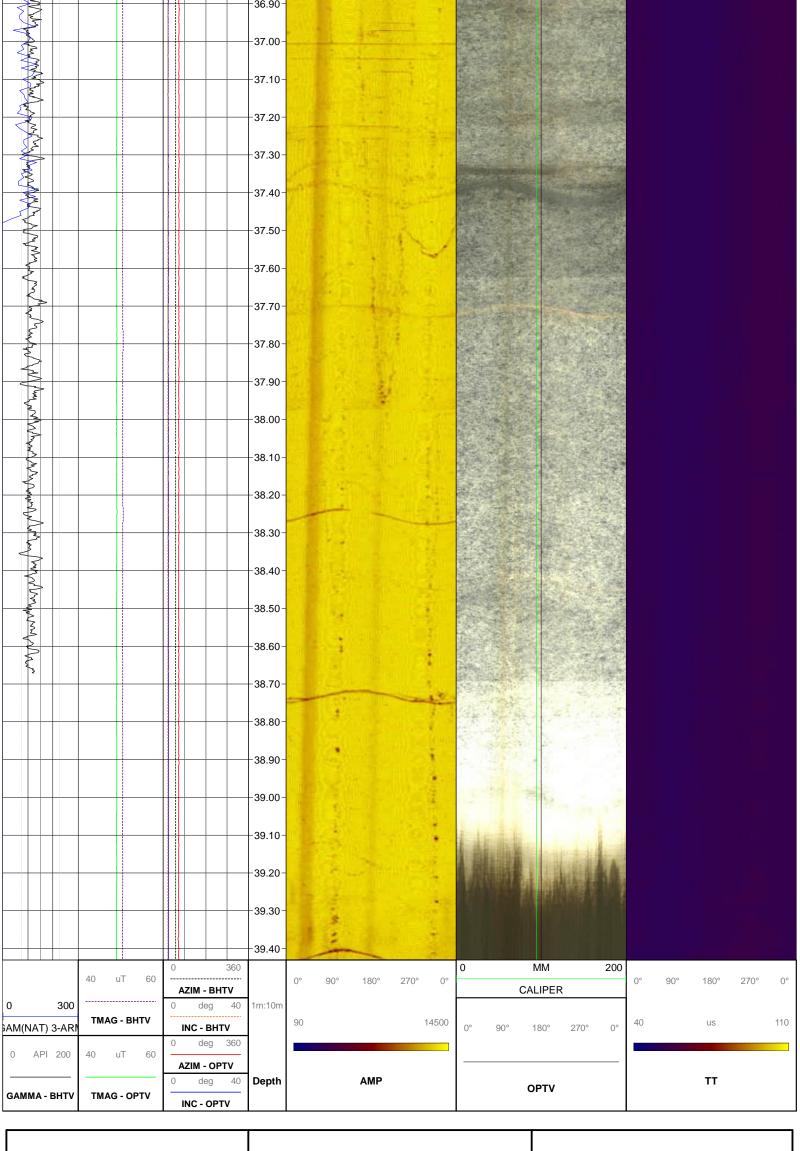












WELL BQLA_04

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FIELD PIONEER-BURDEKIN

DRILL DEPTH 40m

ENGINEER JRT



MULTI-RES LOG

BQLA_04

_	OM! VELI		Y	SME BQL	EC _A_04			ELD OCATION	PIONE EUNG	ER-BURD	EKIN	STATE		QLD AUSTR	ALIA
					LOG ME	ASURED	FROM		GL	ELEVATIONS:			OTHER SERVICES:		ERVICES:
	Z				DRILLING	MEASU	RED FF	ROM	GL	КВ			1.		
Y.	JRDE				PERMAN	ENT DAT	'UM			DF			2.		
UNGEL	DRILLING OLD OLD SMEC SMEC SMEC IY: SMEC IV: SMEC				PERMAN	ENT DAT	UM ELI	EVATION		GL			3.		
LOCATION: EUNGELLA				ISE	SE	CTION	1WOT	NSHIP	ſ	RANGE	MAGNETIC DECLINATION		ECLINATION		
LOCAT	FIELD:	STATE:	WELL:	COMPANY:										8.12	deg
DAT	E			01-0	9-2023					ORDED BY	/ J	RT			
ГІМЕ	E			15-4	4					NESSED B	Y				
RUN	NUI	MBEF	}	1					LOG	GING UNIT	- V	′013			
DEP	TH-C	RILL	ER	40.00	0m				RIG	NUMBER					
DEP	TH-L	.OGG	ER	39.8	5m				TOC	L TYPE	6	074A			
SIT :	SIZE			96mi	m				TOC	L SERIAL I	NO. 2	796			
CAS	SING	TYPE		STE	EL				EAS	TING	6	58002			
CAS	SING	ID		101n	nm				NOF	RTHING	7	662057			
CAS	CASING BOTTOM 14.60m				SAM	SAMPLE INT.)1m							
FLU	ELUID TYPE 0				LOG	DIRECTIO	N L	J							
TRU	JCK C	CALN	IO.	0.097	778					T OR METE		1			
WA٦	/ATER LEVEL 10m				SOL	IRCE TYPE			SOUF	RCE ID					

LOGGER COMMENTS:

1.

2.

3.

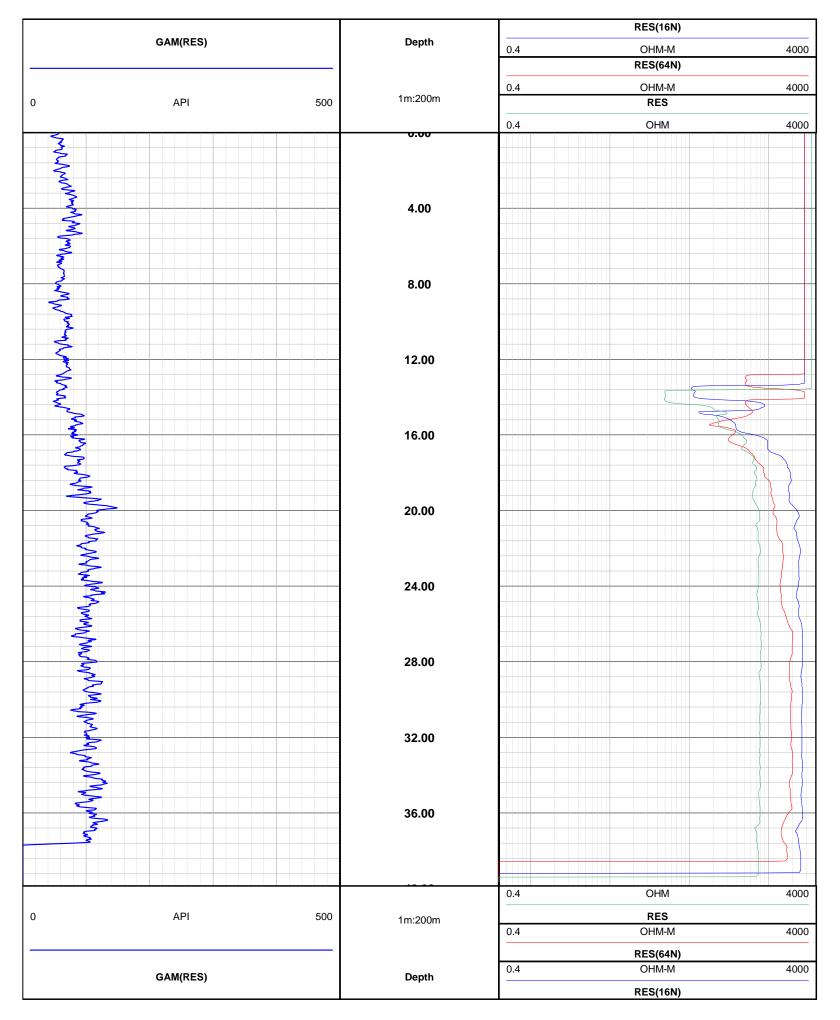
MNEMONICS

GAM(RES) NATURAL GAMMA FROM MULTI-RES TOOL

RES(16N) 16" NORMAL RESISTIVITY
RES(64N) 64" NORMAL RESISTIVITY
RES SINGLE POINT RESISTIVITY

IMPORTANT NOTE

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DEPTH SCALE 1:200



VERTICALITY ANALYSIS

BQLA_04

COMPANY WELL	SMEC BQLA_04		FIELD LOCAT	_	NEER-BURDEK NGELLA	STATE COUNT		RALIA	
ON: EUNGELLA PIONEER-BURDEKIN QLD BQLA_04 NY: SMEC	PERM/ LOG M	ANENT DATI ANENT DATI IEASURED F NG MEASUF	JM ELEVATION GL	ON GL	ELEVA KB DF GL	TIONS:	REMARKS: 1.		
LOCATION: EUN FIELD: PIONEER STATE: QLD WELL: BQLA_04 COMPANY: SME(LICENSE	SECTION	TOWNSHIP	RANGE	MAG DECL. 8.12deg		2.		
DATE	01-09-2023		F		RECORDED BY	JRT			
TIME	16-01		,		WITNESSED BY				
RUN NUMBER	1				OGGING UNIT	V013			
DEPTH-DRILLER	40.00m			I	RIG NUMBER				
DEPTH-LOGGER	39.67m			-	TOOL TYPE	9057A			
BIT SIZE	96mm			-	TOOL SERIAL NO.	361			
CASING TYPE	STEEL			I	EASTING	658002			
CASING OD	101mm			1	NORTHING	7660257			
CASING BOTTOM	14.60m				SAMPLE INT.	.01m			
FLUID TYPE	0			l	OG DIRECTION	U			
TRUCK CAL NO.	0.09778				FEET OR METER	М			
WATER LEVEL	10m			(SOURCE TYPE		SOURCE ID		

DEVIATION LIST

MNEMONIC DESCRIPTORS

NORTH

SANGB SAMPLE ANGLE BEARING

SAMPLE SLANT ANGLE (0 DEG = VERTICAL DOWN)

TVD TRUE VERTICAL DEPTH

SANG

EAST BOREHOLE EAST DEVIATION CDIST DEVIATED CLOSURE DISTANCE

CANGB DEVIATED CLOSURE ANGLE BEARING

BOREHOLE NORTH DEVIATION

ALL CO-ORDINATES ARE PRESENTED ORIENTED TO TRUE NORTH MAGNETIC DECLINATION

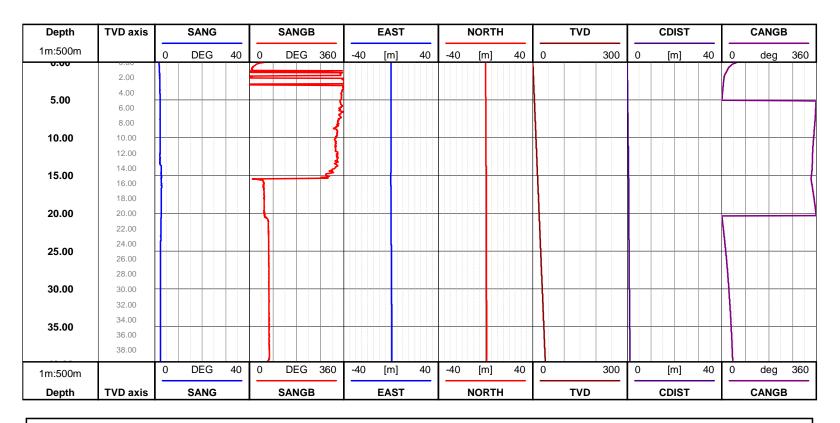
8.12deg

Depth	SANGB	SANG	EAST	NORTH	CDIST	CANGB	TVD
m	DEG	DEG	[m]	[m]	[m]	deg	
0.00	55.6886	1.69533	-999.25	-999.25	-999.25	-999.25	0
1.00	11.5208	1.98764	0.0117747	0.0294641	0.0317298	21.7831	0.99946
2.00	0.672206	2.05717	0.010373	0.0639522	0.064788	9.2131	1.99886
3.00	1.43992	2.16893	0.00973787	0.100037	0.100509	5.55983	2.9982
4.00	352.345	2.12382	0.00708443	0.136893	0.137076	2.96251	3.99752
5.00	346.638	2.23992	0.000778562	0.174405	0.174407	0.255773	4.9968
6.00	349.718	2.16065	-0.00673836	0.211858	0.211965	358.178	5.9960
7.00	341.435	2.18931	-0.0154429	0.24889	0.249369	356.449	6.9953
8.00	337.069	2.17325	-0.0271666	0.285221	0.286511	354.559	7.9946
9.00	332.571	2.23445	-0.0445918	0.319245	0.322344	352.048	8.99386
10.00	331.406	2.25436	-0.0622822	0.354379	0.35981	350.032	9.99309
11.00	328.233	2.2727	-0.0831101	0.387518	0.39633	347.895	10.992
12.00	334.911	2.16412	-0.102448	0.420793	0.433085	346.317	11.991
13.00	337.494	2.19245	-0.118215	0.454852	0.469963	345.431	12.990
14.00	326.608	2.64264	-0.138086	0.490734	0.509792	344.284	13.99
15.00	292.638	2.70936	-0.173254	0.519432	0.547564	341.554	14.988
16.00	53.588	2.77501	-0.170784	0.546974	0.573016	342.66	15.987
17.00	55.2001	2.73967	-0.131384	0.57522	0.590034	347.134	16.986
18.00	(c) Queensslande Hydro I	Pty Ltd ₂ 2 025 67CC B	Y 4.0P <u>lease</u> anote co	pyrightoand simpitation	n of liability asstices or	attachech conver page.	17.985

ı	19.00	56.2294	2.71656	-0.0524305	0.62845	0.630633	355.231	18.9843
l	20.00	55.3694	2.66519	-0.0130264	0.6545	0.654629	358.86	19.9832
l	21.00	70.8073	2.52748	0.0279321	0.675346	0.675923	2.36839	20.9822
l	22.00	72.6301	2.50922	0.0697307	0.688696	0.692218	5.78151	21.9812
l	23.00	73.9493	2.4633	0.111331	0.701657	0.710435	9.01584	22.9802
l	24.00	73.5572	2.46884	0.152788	0.714009	0.730173	12.0783	23.9793
l	25.00	73.53	2.45608	0.19392	0.726039	0.751491	14.9542	24.9784
l	26.00	74.1739	2.44778	0.234926	0.737789	0.774289	17.6624	25.9775
l	27.00	73.9027	2.42949	0.275882	0.749379	0.798549	20.2111	26.9766
l	28.00	74.1925	2.42017	0.316785	0.76074	0.824062	22.6077	27.9757
l	29.00	73.7841	2.42507	0.357693	0.77203	0.850866	24.859	28.9748
l	30.00	74.5473	2.42096	0.398376	0.783376	0.878852	26.9551	29.9739
l	31.00	75.1579	2.41954	0.43908	0.794403	0.907672	28.9302	30.973
l	32.00	75.8223	2.4216	0.479865	0.805304	0.937435	30.7899	31.9721
l	33.00	75.0676	2.42246	0.520472	0.816259	0.968075	32.5228	32.9712
l	34.00	75.5655	2.39812	0.561126	0.826961	0.999363	34.1585	33.9703
l	35.00	74.597	2.38005	0.601619	0.837537	1.03122	35.6904	34.9695
l	36.00	75.7888	2.39022	0.64211	0.848156	1.0638	37.1281	35.9686
l	37.00	75.8923	2.36105	0.682228	0.858537	1.0966	38.4721	36.9677
۱	38.00	76.0116	2.36061	0.722279	0.868798	1.12982	39.7386	37.9669
١	39.00	76.0015	2.37012	0.762347	0.878704	1.16331	40.9443	38.966

IMPORTANT NOTE

The following interpretations are opinions based upon inferences from borehole logs, Epiroc Kinetic Logging Services cannot and does not guarantee the correctness or accuracy of any interpretations. Therefore, Epiroc Kinetic Logging Services shall not be liable or responsible for any loss, damage, cost or expense incurred or sustained by anyone resulting from any interpretations.



NOTES ON VERTICALITY PLOTS

- 1. The following verticality plots are scaled automatically to obtain the best visual effect within the default page size.
- 2. All co-ordinates are presented oriented to True North.

DEVIATION PLOT

