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LOCATION: Dalrymple Heights

PROJECT: Pioneer Burdekin PHES GI

23117.000.001

CLIENT:

JOB NO:

BOREHOLE: BHUA-19

COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m SHEET: 1 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

		D	illing			Sampling				Field Material Desc	riptic	on	
METHOD / SUPPORT	PENETRATION	WATER			<i>DEPTH</i> RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			0.0)	<u>0.05</u> 895.05			× —	CI	TOPSOIL: Sitty CLAY low plasticity, dark brown to red brown, trace fine to coarse	w=Pl	St	
				-				——× —		grained sand, trace rootlets (<2mm) Silty CLAY	1		RESIDUAL SOIL
				_				× × ×		medium plasticity, pale orange brown mottled off-white, trace fine to medium grained sand			
			0.5	5				×					
								—X —X —X					
			1.()				× — ×					Coring water returns were not recorded.
				-				× × 					
			1.5	5		LL = 50%		× ·					
				_		PI = 22% LS = 10.5% SPT 1.50-1.95 m 2, 5, 6 N=11		××					
				_		2, 3, 5 11-11		—× —					
			2.0)(X					
				_		-		× · · · ×					
SSA	MP		2.5	- 5				× ×			w=Pl	St	
VSS								× — —× ×					
			3.0					× 					
				-		LL = 53% PI = 24% LS = 13.0% Soil Particle Density		× ·					
				-		(t/m³) = 2.27 SPT 3.00-3.45 m 4, 7, 8 N=15		×× × ++					
			3.5	5				× × ×					
				-				× ×					
		$\overline{\Sigma}$	- 4.0	-				^ 					
		evel (BGL		-				× × ×					
		ng Fluid L		_				× — 					
		25/08/23, Standing Fluid Level (BGL)	4.5	5		SPT 4.50-4.95 m 3, 6, 8 N=14		×					
		25/08/		_				× ×					
			5.0	-				×					
						This log must be	e rea	ad in c Lo	onju gs. l	nction with accompanying symbols and abbreviations used t has been prepared for geotechnical purposes only.	on G	ieoteo	chnical



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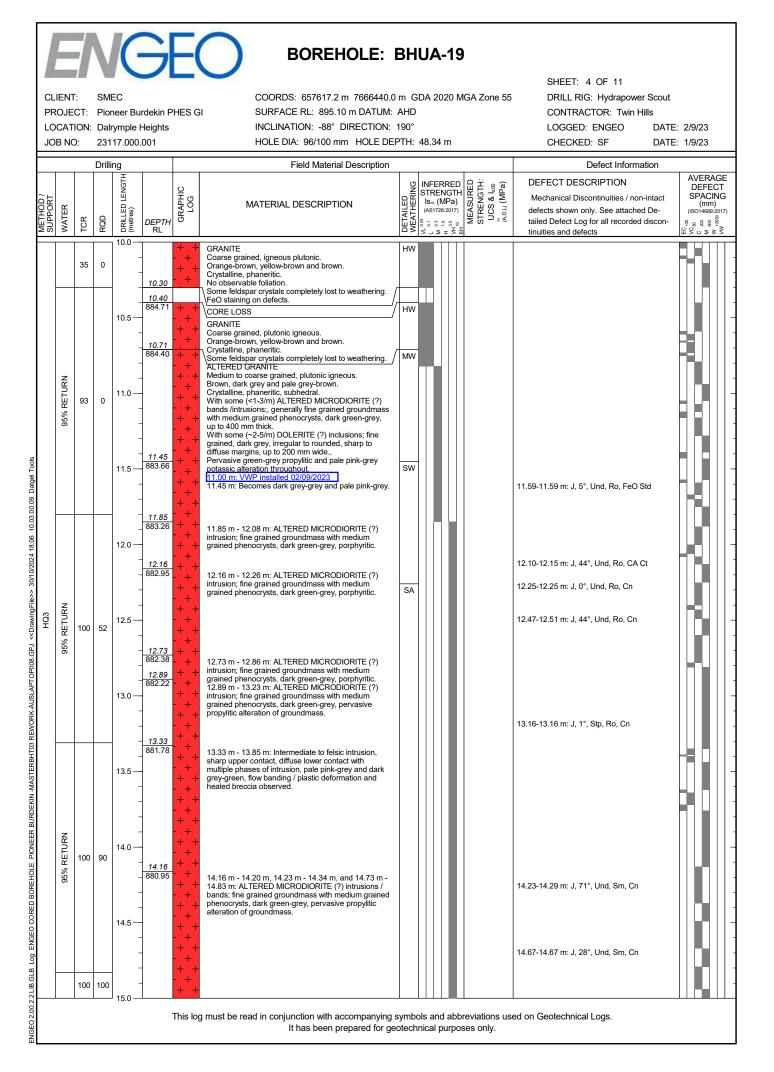
Drilling Sampling **Field Material Description** MOISTURE CONDITION CONSISTENCY DENSITY METHOD / SUPPORT PENETRATION RESISTANCE **GROUP SYMBO** RECOVERED STRUCTURE AND SAMPLE OR GRAPHIC LOG LENGTH (metres) MATERIAL DESCRIPTION ADDITIONAL OBSERVATIONS WATER FIELD TEST DEPTH RL 5.0 CI RESIDUAL SOIL Silty CLAY medium plasticity, pale orange brown mottled off-white, trace fine to medium grained sand w=PL St <u>5.50</u> 889.61 5.5 Silty CLAY ______ medium plasticity, orange brown, with fine to coarse grained sand CĪ SSA <PL St MP 6.0 Soil Particle Density (t/m³) = 2.35 SPT 6.00-6.45 m 3, 7, 7 N=14 6.40 888.71 Clayey SAND with gravel fine to coarse grained, well graded, pale orange brown and off-white, low plasticity clay, with fine to medium grained, SC <<DrawingFile>> 30/10/2024 18:06 10.03.00.09 Datgel Tools 6.5 sub-angular gravel D MD 7.00 888.11 7.0 CI Sandy CLAY low plasticity, pale brown and yellow brown mottled dark red, fine to coarse grained sand, trace fine grained, sub-angular gravel DP 7.5 SPT 7.50-7.87 m 10, 18, 25/70mm HB ENGEO 2.00.2.2 LIB.GLB Log ENGEO CORED BOREHOLE PIONEER BURDEKIN -MASTERBHT03 REWORK-AUSLAPTOP008.GPJ MΒ 8.0 N=PL Н PR 8.5 -9.0 For Continuation Refer to Sheet 3 9.5 10.0 This log must be read in conjunction with accompanying symbols and abbreviations used on Geotechnical Logs. It has been prepared for geotechnical purposes only.



CLIENT:SMECPROJECT:Pioneer Burdekin PHES GILOCATION:Dalrymple HeightsJOB NO:23117.000.001

COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m SHEET: 3 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

				Drilli				Field Material Description	1						Defect Information		
METHOD /	SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED	WEATHERING	INFI STR Is∞ (AS1	ERR ENG (MP 726:20 3 ♀ ; ≥ ェ	ED GTH Pa) ⁰¹⁷⁾	MEASURED STRENGTH: UCS & I ₅₅₀	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached De- tailed Defect Log for all recorded discon- tinuities and defects	AVE DE SP/ (ISO1	ERAGE FECT ACING mm) 4689:2017)
ENGEO 2.00.2.2.LIB.GLB Log ENGEO CORED BOREHOLE PIONEER BURDEKIN -MASTERBHT03 REWORK-AUSLAPTOP008.GPJ < <drawingfile>> 30/10/2024 18:06 10.03.00.09 Datgel Tools</drawingfile>					5.5- 6.0- 6.5- 7.0- 7.5- 8.0- 8.5-			Continuation of Sheet 2									
	000	95% RETURN	35	0	9.0 9.5 -	<u>9.00</u> 886.11 - - - - - - - - 885.26	+ +	Continuation of Sheet 2 CORE LOSS		IW							-
ENGEO 2.00.2.2 LIE					10.0 -		- +	g must be read in conjunction with accompanying It has been prepared for g	g syn	nbc					ed on Geotechnical Logs.		



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COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m SHEET: 5 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

			Drilli	. <u> </u>			Field Material Description	-	_				Defect Information	AVERAG
SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INF STF Is: (AS (AS (0) 1/1 1	ERR RENC ₀ (MF 1726:2 ♡ ₽ □ ₽ ≖	ED STH Pa) D17) g 4 H	MEASURED STRENGTH: UCS & I ₅₅₀	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached De- tailed Defect Log for all recorded discon- tinuities and defects	AVERA(DEFEC SPACIN (mm) (ISO14689:21 (ISO14689:22) (ISO14689) (IS
	95% RETURN	100	100	15.0 — - - - - - - - - - - - - - - - - - - -	<u>15.12</u> 879.99		ALTERED GRANITE Medium to coarse grained, plutonic igneous. Brown, dark grey and pale grey-brown. Crystalline, phaneritic, subhedral. With some (<1-3/m) ALTERED MICRODIORITE (?) bands /intrusions;, generally fine grained groundmass with medium grained phenocrysts, dark green-grey, up to 400 mm thick. With some (<2-5/m) DOLERITE (?) inclusions; fine grained, dark grey, irregular to rounded, sharp to diffuse margins, up to 200 mm wide. Pervasive green-grey propylitic and pale pink-grey potassic alteration throughout. 15.12 m - 15.30 m, 15.59 m - 15.74 m, 15.76 m - 15.99 m, 16.06 m - 16.14 m, 16.39 m - 16.43 m: DOLERITE (?) inclusions; fine grained, dark grey, irregular to rounded, sharp to diffuse margins.	SA				UCS=85.0 I ₅₀ (D)=2.59 I ₅₀ (A)>5.35	15.62-15.62 m: J, 1°, Und, Sm, Cn 15.90-15.90 m: J, 13°, Und, Sm, CA Ct 16.10-16.13 m: J, 41°, Und, Ro, Cn	
	95% RETURN	100	100	16.5 —	<u>16.61</u> 878.50	++++++++++++++++++++++++++++++++++++	16.61 m - 16.91 m, 17.17 m - 17.55 m, 18.33 m - 18.39 m, and 18.68 m - 18.81 m: ALTERED MICRODIORITE (?) intrusions / inclusions; fine to medium grained, dark green-grey, irregular shaped, diffuse margins, patchy propylitic alteration.						17.57-17.59 m: J, 19°, Und, Sm, Cn	
	90% RETURN	100	100	18.0		+ + + + + + + + + + + + + + + + + + +	18.41 m - 18.61 m, 18.85 m - 18.91 m, 18.94 m - 19.10 m, 19.22 m - 19.37 m, 19.43 m - 19.47 m, 19.50 m - 19.54 m, 19.56 m - 19.67 m, 19.72 m - 19.96 m, 20.00 m - 20.26 m, 20.34 m - 20.39 m, 20.54 m - 20.66 m, and 20.87 m - 20.91 m: DOLERITE inclusions, fine to medium grained, dark grey to black, irregular to rounded shaped, sharp to diffuse margins.						18.73-18.93 m: J, 25°, Pln, Ro, Cn 18.93-18.99 m: J, 45°, Pln, VRo, Cn 19.19-19.21 m: J, 10°, Pln, Ro, Cn	
	90% RETURN	100	85	19.5 —	-	- + + + + + - + + +								



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PROJECT: Pioneer Burdekin PHES GI

23117.000.001

CLIENT:

JOB NO:

BOREHOLE: BHUA-19

COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m

SHEET: 6 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

			Drilli	ng			Field Material Description				Defect Information	
SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	ERRED ENGTH (MPa) 726:2017) 5 2 2 2 2 1 5	MEASURED STRENGTH: UCS & I _{sto} (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	AVERAC DEFEC SPACIN (mm) (ISO14689:21
	90% RETURN	100	85	20.0		+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	ALTERED GRANITE Medium to coarse grained, plutonic igneous. Brown, dark grey and pale grey-brown. Crystalline, phaneritic, subhedral. With some (<1-3/m) ALTERED MICRODIORITE (?) bands /intrusions;, generally fine grained groundmass with medium grained phenocrysts, dark green-grey, up to 400 mm thick. With some (~2-5/m) DOLERITE (?) inclusions; fine grained, dark grey, irregular to rounded, sharp to diffuse margins, up to 200 mm wide., Pervasive green-grey propylitic and pale pink-grey potassic alteration throughout.	SA			20.56-20.56 m: J, 5°, Cvd, Ro, Cn 20.56-20.60 m: J, 40°, Pln, Ro, Cn 20.56-20.56 m: J, 5°, Cvd, Ro, Cn 20.56-20.60 m: J, 40°, Pln, Ro, Cn 20.70-20.70 m: J, 0°, Pln, Ro, Cn	Ĵ
	90% RETURN	100	90	- 21.0 — - - -	<u>21.30</u> 873.81	+ + + + + + + + + + + + + + + + + + + +	21.30 m - 21.71 m: ALTERED MICRODIORITE (?) intrusion, fine to medium grained, pale green-grey,				21.38-21.38 m: J, 5°, Pln, Ro, Cn	
	90% RETURN	100	90	21.5 - - 22.0 -	<u>21.71</u> 873.41	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	sharp upper and lower contacts, phaneritic.				21.50-21.50 m: J, 0°, Pln, Ro, Cn	l
-	90% RETURN	100	100	- 22.5 — - 23.0 — - 23.5 — - 23.5 —	23.06 872.06 23.65 871.47	- + + + + + + + + + + + + + + + + + + +	DOLERITE DYKE / SILL (?) Fine grained groundmass with medium grained phenocrysts, intrusive igneous. Dark grey and black. Crystalline, phaneritic, subhedral to anhedral plagioclase crystals. Sharp upper contact, diffuse lower contact., Patchy propylitic alteration. ALTERED GRANITE As per description at 10.71 m, dark grey-grey and pale	SA FR-SA		UCS=179	23.63-23.65 m: J, 10°, Pln, Ro, Cn	ļ
	90% RETURN	100	90		24.24	+ + + + + + + + + + + + + + + + + + +	PORPHYRITIC DOLERITE Fine grained groundmass with medium grained phenocrysts, igneous intrusive. Dark grey. Crystalline, porphyritic, subhedral feldspar crystals., With many (15-20/m) crosscutting quartz veinletts, <2 mm wide, generally at 30° - 45°. Integral Discontinuities Vn/veinletts; gentle to moderate, (15-20/m), some // to FOL, most <2 mm wide, quartz filled.	FR		I ₅₀ (D)>5.89		

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			Drilli	-			Field Material Description						Defect Information	
SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INI ST Is (AS 000 TA	FER REN 50 (M 51726: 51726:	RED IGTH IPa) 2017)	BTRENGTH: UCS & I _{sto} (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	AVERAC DEFEC SPACIN (mm) (ISO14689:20
		100	90	25.0	<u>25.28</u> 869.84	+ 27 27 +	ALTERED GRANITE	FR						
	90% RETURN	100	100	- 25.5 — - - - 26.0 — - -	-	\cdot + + + + + + + + + + + + + + + + + + +	Medium to coarse grained, plutonic igneous. Off-white and dark grey. Crystalline, phaneritic, subhedral feldspar. Some ALTERED MICRODIORITE intrusions, irregular, fine grained, dark grey-grey, diffuse to sharp margins, <100 mm wide Patchy propylitic alteration (pale green-grey) throughout. Integral Discontinuities Vein; moderate to steep, (<2-4/m), most <2mm wide, few <5 mm wide.							P
				- 26.5 — - -	<u>26.45</u> 868.67	+ + + + + + + + + + + + + + + + + + +	26.45 m - 26.76 m, 26.92 m - 27.05 m and 27.50 m - 27.80 m: ALTERED MICRODIORITE (?) intrusions, fine to medium grained, dark grey to grey-green, sharp to diffuse margins, very closely to closely space quartz veinletts throughout.	SA						
3	RN			27.0	<u>27.07</u> 868.05	+ + + + + + + + + + + + + + + +	27.07 m - 27.45 m: Very closely spaced, sub-parallel quartz (?) veinletts, <1 mm wide, at 70° - 85°, undulating.							ß
201	90% RETURN	100	100	27.5 — - -	-	- + + + - + + + - + - +					l			
		-		- 28.0	28.00 867.12	- + + +	PORPHYRITIC DOLERITE Fine grained groundmass with medium grained phenocrysts, intrusive igneous. Dark grey-grey. Aphanitic, groundmass subhedral feldspar phenocrysts,	SA	-					D
				- 28.5 — -	28.75	1 22 22 21 7 7 7 7 7	With many (15-20/m) intact, crosscutting quartz veins / veinletts, <2 mm wide, generally at 30° - 60°. Integral Discontinuities Vn/veinletts; moderate to steep, (15-20/m), some // to FOL, most <2 mm wide, some >5 mm wide., Mechanical Defects Js; gentle to moderate; (~3-5/m) Pln - Und, Sm - Ro,				l			h.
	90% RETURN	100	100	- - 29.0 — -	866.37	27 27 27 27 27 27 27 27	Cn. 28.75 m - 29.95 m: Veinletts become less frequent (5-10/m), most <1 mm wide, generally at 25°- 50°.					UCS=172		
				- - 29.5 — -	29.50 865.62	- L L L L L L L L L L L L L L L L L L L						I₅₀(D)>5.89		
		100	100	- - 30.0 —	29.95	- L L L L L L L L L L L L L L L L L L L								

PR LO		CT: ION: D:	Dal 231	neer Bu rymple 17.000	ırdekin F Heights .001	PHES G	INCLINATION: -88° DIRECTION: HOLE DIA: 96/100 mm HOLE DE	AHD 190°			/IGA Zone 55	CONTRACTOR: Twin Hills LOGGED: ENGEO DATE CHECKED: SF DATE	E: 2/9/23 E: 1/9/23
SUPPORT	WATER	TCR	Drilli	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	Field Material Description	DETAILED WEATHERING	INFE STR Is∞ (AS1 (AS1	ERRED ENGTH (MPa) 726:2017) 3	IEASURE TRENG1 JCS & I _s (MP	Defect Information DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached De- tailed Defect Log for all recorded discon- tinuities and defects	AVERAC DEFEC SPACIN (mm) (ISO14689:21
	90% RETURN	100	100	30.0	3665.002 	אן אין אין אי	29.95 m - 31.05 m: Veinletts become more frequent (15-20/m), most <1 mm wide, generally at 25°- 50°, few steeper at 65°- 80°.	SA				30.79-30.82 m: J, 20°, Cvd, Ro, Ct, 3mm greenish Ct.	
501L	90% RETURN	100	95	31.5		דל בל בל הקידי הל בל בל בל בל בל בל בל בל בל							
	90% RETURN	100	100	33.0	<u>33.08</u> 862.04	27 27 27 27 27 27 27 27 27 27 27 27 27 2	DOLERITE Fine grained, aphanitic. Dark grey-black. Crystalline. Some quartz veins / veinletts throughout. Integral Discontinuities Vn/Veinletts: gentle (4-6/m), Pln - Und, most <1 mm wide, few < 5mm wide, With many (15-20/m) intact, crosscutting quartz veins / veinletts, <2 mm wide, generally at 30° - 60°. Integral Discontinuities Vn/veinletts; moderate to steep, (15-20/m), some // to FOL, most <2 mm wide, some >5 mm wide., Mechanical Defects Js; gentle to moderate; (~3-5/m) Pln - Und, Sm - Ro, Cn.	FR	-		UCS=225 I ₅₀ (D)>5.89 I ₅₀ (A)>5.62		
·	90% RETURN	100	100	34.5	<u>34.46</u> 860.66 <u>34.77</u> 860.35		ALTERED GRANITE Medium to coarse grained, intrusive igneous. Dark grey to grey and white. Crystalline, subhedral plagioclase in colourless quartz groundmass. Patchy propylitic alteration (pale green-grey), becomes stronger at lower contact.	SA MA SA	-				



CLIENT:SMECPROJECT:Pioneer Burdekin PHES GILOCATION:Dalrymple HeightsJOB NO:23117.000.001

COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m SHEET: 9 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

			Drilli	<u> </u>			Field Material Description					Defect Information	
SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INFE STR Isso (AS11)	ERRED ENGTH (MPa) (26:2017) 26:2017) 26:2017) 26:2017)	MEASURED STRENGTH: UCS & I _{sto} (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	AVERAC DEFEC SPACIN (mm) (IS014689.20 8 8 8 8 8 8 9 9 0 9 9 3
	90% RETURN	100	100	35.0 — - - 35.5 — - -	<u>35.48</u> 859.64	レムレムレムレム - + + + + + + + + + + + + + + + + + + +	DOLERITE Fine grained, aphanitic. Dark grey-black. Crystalline. Some quartz veins / veinletts and granitic bands up to 50 mm thick. Integral Discontinuities Vn/Veinletts; gentle (4-6/m), Pln - Und, most <1 mm wide, few < 5mm wide. ALTERED GRANITE Medium to coarse grained, plutonic igneous. Off-white and dark grey. Crystalline, phaneritic, subhedral feldspar. Some ALTERED MICRODIORITE intrusions, irregular,	SA				35.69-35.72 m: J, 25°, Pln, Ro, Cn	ļ
	90% RETURN	100	100	- 36.0 — - - - 36.5 — - -	-	++++++++++++++++++++++++++++++++++++	fine grained, dark grey-grey, diffuse to shar, margins, <150 mm wide Patchy propylitic alteration (pale green-grey) throughout. Integral Discontinuities Vein; moderate to steep, (<2-4/m), most <2mm wide, few <5 mm wide.					36.12-36.24 m: J, 60°, Pln, Ro, FL, Grey mineral infill.	ļ
13				- 37.0 — - - -	<u>37.06</u> 858.06	+ + + + + + +	PORPHYRITIC DOLERITE Fine grained groundmass with medium grained phenocrysts, intrusive igneous. Dark grey-grey. Crystalline, aphanitic groundmass, with subhedral to anhedral plagioclase phenocrysts. Sharp upper contact, diffuse lower contact.	SA				37.03-37.03 m: Cs, 0°, Pln, Ro, Ct	l
РЦ3	90% RETURN	100	100	37.5 — - - - - - - - - - - - - - - - - - - -	<u>37.70</u> 857.42	2 <u>2</u> + + + + + + + + + + + + + + + + + + +	ALTERED GRANITE Medium to coarse grained, plutonic igneous. Grey-dark grey and pale grey Crystalline, phaneritic, subhedral. With some (<1-3/m) ALTERED MICRODIORITE (?) bands /intrusions;, generally fine grained groundmass with medium grained phenocrysts, dark green-grey, up to 400 mm thick. With some (<2-5/m) DOLERITE (?) inclusions; fine grained, dark grey, irregular to rounded, sharp to diffuse margins, up to 200 mm wide., Patchy proylitic (pale green-grey) alteration throughout.	SA	-			38.42-38.60 m: J, 70°, Cvd, Ro, CA FL	
-	90% RETURN	100	100			++++++++++++++++++++++++++++++++++++						39.20-39.22 m: J, 30°, Und, Ro, CA FL	



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COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m SHEET: 10 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

			Drilli	ing			Field Material Description					Defect Information	
SUPPORT	WATER	TCR	RQD	DRILLED LENGTH (metres)	DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERING	INF STI Is (AS 00 10 -	ERRED RENGTH (MPa) (1726:2017)	A BY SY A	DEFECT DESCRIPTION Mechanical Discontinuities / non-intact defects shown only. See attached De- tailed Defect Log for all recorded discon- tinuities and defects	AVERAG DEFEC SPACIN (mm) (ISO14689-20 (mm) (ISO14689-20 (mm) (ISO14689-20 (mm) (ISO14689-20 (mm)) (ISO1409-20 (mm)) (ISO1409-20
-	RN	100	100	40.0	-	+ + + + + + + + + + + + + + + + + + +	ALTERED GRANITE Medium to coarse grained, plutonic igneous. Grey-dark grey and pale grey Crystalline, phaneritic, subhedral. With some (<1-3/m) ALTERED MICRODIORITE (?) bands /intrusions;, generally fine grained groundmass with medium grained phenocrysts, dark green-grey, up to 400 mm thick. With some (<2-5/m) DOLERITE (?) inclusions; fine grained, dark grey, irregular to rounded, sharp to diffuse margins, up to 200 mm wide., Patchy propylitic (pale green-grey) alteration throughout.	SA					
	90% RETURN	100	100	41.0	41.45 853.68	+ + + - + + + - + + + + - + + + + - + + + +	41.45 m: Becomes pervasively altered, pale green-grey and off-white as interstitial quartz size increases. Common fractionation textures and mineral accumulations encountered.						J
200	90% RETURN	100	100	42.0	43.10 852.03	· + + + + + + + + + + + + + + + + + + +	43.10 m - 43.40 m: Crenulated bands, <10 mm wide (alteration fronts?)						Ì
-	90% RETURN	100	85	43.5	43.65 43.70 851.43 44.27 850.86	+ + + + + + <i>L L L L L L L L L L L L L L</i>	43.65 m - 43.96 m: Steep altered shear zone with brecciation and silicic alteration along contact. DOLERITE Fine grained groundmass with medium grained phenocrysts, intrusive igneous. Dark grey-grey. Crystalline, phaneritic, subhedral to anhedral plagioclase crystals. Sharp upper and lower contact. 44.27 m - 44.48m: pervasive pale green propylitic alteration.	SA	-		UCS=150		
		100	100	45.0	-	1 2 T							



LOCATION: Dalrymple Heights

PROJECT: Pioneer Burdekin PHES GI

23117.000.001

CLIENT:

JOB NO:

BOREHOLE: BHUA-19

COORDS: 657617.2 m 7666440.0 m GDA 2020 MGA Zone 55 SURFACE RL: 895.10 m DATUM: AHD INCLINATION: -88° DIRECTION: 190° HOLE DIA: 96/100 mm HOLE DEPTH: 48.34 m SHEET: 11 OF 11 DRILL RIG: Hydrapower Scout CONTRACTOR: Twin Hills LOGGED: ENGEO DATE: 2/9/23 CHECKED: SF DATE: 1/9/23

TCR	RQD	DRILLED LENGTH (metres)		GHIC		ŊG	INFE	ERRED	ED TH: ⁵⁵⁰ 2a)	DEFECT DESCRIPTION	AVERAGE DEFECT
_	R N		DEPTH RL	GRAPHIC LOG	MATERIAL DESCRIPTION	DETAILED WEATHERI	Is (AS1) د د د	ERRED ENGTH (MPa) 726:2017) 3 은 응 우 호 ェ 등 표	MEASURED STRENGTH: UCS & I ₅₅₀ (A,D,L) (MPa)	Mechanical Discontinuities / non-intact defects shown only. See attached De- tailed Defect Log for all recorded discon- tinuities and defects	DEFECT SPACING (mm) (ISO14689:2017) (ISO1400) (ISO14689:2017) (ISO1400
100	100	45.0 -	45.85	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	DOLERITE Fine grained groundmass with medium grained phenocrysts, intrusive igneous. Dark grey-grey. Crystalline, phaneritic, subhedral to anhedral plagioclase crystals. Sharp upper and lower contact. ALTERED MICRODIORITE DYKE / SILL Fine to medium grained, intrusive igneous. Dark green-grey. Crystalline, phaneritic, equigranular. Sharp upper and lower contacts. ALTERED GRANITE Medium to coarse grained, plutonic igneous. Grey-dark grey and pale grey Crystalline, phaneritic, with colourless interstitial quartz up to 3 mm. Weakly foliated at 15°- 20° With some (<1-3/m) ALTERED MICRODIORITE (?)	SA SA FR			I ₅₀ (A)=2.67		
100	100	46.5 - 47.0 - 47.5 - 48.0 -	- - - - - - - - - - - - - - - - - - -	+ + + + + + + + + + + + + + + + + + +	bands /intrusions. generally fine grained groundmass with medium grained phenocrysts, dark green-grey, up to 400 mm thick. With few (<1-2/m) DOLERITE (?) inclusions; fine grained, dark grey, irregular to rounded, sharp to diffuse margins, up to 200 mm wide., Patchy propylitic (pale green-grey) alteration throughout. Many quartz veins / veinletts throughout at various orientations from subhorizontal to subvertical.	FR					
		48.5 -			END OF BOREHOLE @ 48.34 m TARGET DEPTH VIBRATING WIRE PIEZOMETER INSTALLED, SINGLE SENSOR AT 11.00 M DEPTH. Bearing is approximate only.						
	100	100 100	100 100 46.0 - 46.0 - 46.5 - 100 46.5 - 100 100 47.5 - 48.0 - 48.5 - 48.0 - 48.5 - 49.0 - 49.0 -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	100 100 <td>100 100 100 100 45.5 </td> <td>100 100 </td> <td>100 100 100 45.5 Sharp upper and lower contact. SA 100 100 45.5 ALTERED MCRODIORITE DYKE / SILL Fine to medium granular. SA 643.23 H ALTERED MCRODIORITE DYKE / SILL Fine to medium granular. SA 643.23 H Charge upper and lower contacts. FR 46.0 H ALTERED GRANITE Medium to cause granular dipter contacts. FR 46.0 H ALTERED GRANITE Medium to cause granular dipter contacts. FR 46.0 H Medium to cause granular dipter contacts. FR 46.5 H ALTERED GRANITE Medium to cause granular dipter contacts. FR 46.5 H ALTERED MCRODIORITE (?) bands /intrusions, generally fine grained granutars. SA 46.5 H Patch propositic (able green green grey) altratation morphotocause from subhorizontal to subvertical. FR 100 100 H H H H 47.0 H H H H 48.4 H H H H 47.5 H H H H 48.6 H H H H 48.4 H H H H 49.0 H H H<td>100 100<td>100 100 45.5 45.62 A TERED MCRODOR ID INKE / SLL. First to moduling for the standard st</td></td></td>	100 100 100 100 45.5	100 100	100 100 100 45.5 Sharp upper and lower contact. SA 100 100 45.5 ALTERED MCRODIORITE DYKE / SILL Fine to medium granular. SA 643.23 H ALTERED MCRODIORITE DYKE / SILL Fine to medium granular. SA 643.23 H Charge upper and lower contacts. FR 46.0 H ALTERED GRANITE Medium to cause granular dipter contacts. FR 46.0 H ALTERED GRANITE Medium to cause granular dipter contacts. FR 46.0 H Medium to cause granular dipter contacts. FR 46.5 H ALTERED GRANITE Medium to cause granular dipter contacts. FR 46.5 H ALTERED MCRODIORITE (?) bands /intrusions, generally fine grained granutars. SA 46.5 H Patch propositic (able green green grey) altratation morphotocause from subhorizontal to subvertical. FR 100 100 H H H H 47.0 H H H H 48.4 H H H H 47.5 H H H H 48.6 H H H H 48.4 H H H H 49.0 H H H <td>100 100<td>100 100 45.5 45.62 A TERED MCRODOR ID INKE / SLL. First to moduling for the standard st</td></td>	100 100 <td>100 100 45.5 45.62 A TERED MCRODOR ID INKE / SLL. First to moduling for the standard st</td>	100 100 45.5 45.62 A TERED MCRODOR ID INKE / SLL. First to moduling for the standard st

JOB No.:	30032772	Borehole ID:	BHUA-19
Client:	Queensland Hydro	Termination Depth:	48.34
Site:	Pioneer-Burdekin		

page.	Depth (m From To	i) Midpo	oint	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
ра	9.85	9.90	9.88 Jo	pint	86	Rough	Undulating	Mn Oxide	Highly Weathered	Intact	
	9.97	10.00	9.99 Se		20	Smooth		Chlorite	Extremely Weathered	Filled	
0	10.04		10.09 Jo		81	Rough	•	Mn Oxide	Highly Weathered	Intact	
attached cover	10.08		10.11 Jo			Rough	•	Mn Oxide	Highly Weathered	Intact	
Je(10.12		10.13 Jo			Rough	•	Mn Oxide	Moderately Weathered	Intact	
act	10.41		10.43 Jo			Rough	•	Fe Oxide	Highly Weathered	Stained	
att	10.46		10.46 Jo			Rough	•	Fe Oxide	Highly Weathered	Stained	
on a	10.46		10.51 Jo			Rough	-	Fe Oxide	Highly Weathered		J x8, 6°, UN, Ro, Fe, SN
s c	10.57 10.59		10.70 Jo 10.59 Jo			Rough		Fe Oxide Fe Oxide	Highly Weathered	Stained Stained	
ë	10.59		10.59 JC		5	Rough Rough	Undulating	Fe Oxide	Highly Weathered Highly Weathered	Stained	
notices	10.61		10.61 JC		Z //1	Rough	Undulating	Fe Oxide	Highly Weathered	Stained	
Ē	10.65		10.65 Jc			Rough		Fe Oxide	Highly Weathered	Stained	
liability	10.68		10.05 JC			Rough		Fe Oxide	Highly Weathered	Stained	
ide	10.00		10.79 Jc			Rough		Calcite	Moderately Weathered	Intact	
ii.	10.74		10.74 Jo		2	Rough	Undulating	Fe Oxide	Highly Weathered	Stained	
l of	10.74		10.75 Jo		24	Rough		Fe Oxide	Highly Weathered	Stained	
limitation	10.75		10.75 Jc			Smooth	Undulating	Fe Oxide	Highly Weathered	Stained	
tati	10.82	10.94	10.88 Jo	bint	88	Rough	Undulating	Fe Oxide	Moderately Weathered	Intact	
ait	10.94	10.94	10.94 Jo	bint	5	Rough	Irregular	Fe Oxide	Highly Weathered	Stained	
- E	10.94		11.28 Jo		89	Rough	•	Fe Oxide	Moderately Weathered	Stained	<700mm long.
and	11.01		11.12 Jo			Rough	•	Chlorite	Highly Weathered	Vein	
it a	11.05		11.05 Jc			Rough	•	Fe Oxide	Highly Weathered	Stained	
copyright	11.05		11.43 Jo		90	Smooth	•	Chlorite	Highly Weathered	Vein	<780mm long.
, Jri	11.07		11.07 Jc		9	Rough	•	Fe Oxide	Highly Weathered	Stained	
do	11.10		11.16 Jo			Smooth		Chlorite	Highly Weathered	Vein	
C D	11.13		11.14 Jo			Rough		Fe Oxide	Highly Weathered	Stained	
note	11.15 11.28		11.15 Jc 11.28 Jc			Rough Smooth		Fe Oxide Chlorite	Highly Weathered Highly Weathered	Stained Vein	
L D	11.28		11.28 JC			Rough	Planar Undulating	Fe Oxide	Highly Weathered Highly Weathered	Stained	
Please I	11.38		11.40 JC		55	Rough	Curved	Fe Oxide	Highly Weathered	Stained	
<u>ie</u>	11.42		11.42 Jo		, 6	Smooth		Fe Oxide	Highly Weathered	Stained	
<u>с</u> .	11.57		11.57 Jo			Rough	Undulating	Fe Oxide	Moderately Weathered	Stained	
4.0.	11.59		11.59 Jo			Rough	Undulating		Moderately Weathered	Clean	
	11.60		11.70 Jo	bint		Rough	Undulating	Fe Oxide	Moderately Weathered	Stained	
ВΥ	11.67		11.67 Jo		2	Rough		Fe Oxide	Highly Weathered	Stained	
SC	11.75		11.75 Jo		8	Rough	Undulating	Fe Oxide	Moderately Weathered	Stained	
	11.88		11.88 Jo			Rough	Curved	Fe Oxide	Moderately Weathered	Stained	
2025,	11.88		11.95 Jo			Rough	Undulating	Fe Oxide	Slightly Weathered	Stained	
	11.97		12.00 Jc			Rough	•	Fe Oxide	Moderately Weathered	Stained	
Ltd	12.03		12.04 Jo					Fe Oxide	Moderately Weathered	Stained	
71	12.04 12.07		12.06 Jc 12.08 Jc			Rough Very Rough	Curved	Fe Oxide Fe Oxide	Moderately Weathered	Intact Stained	
Pty	12.07		12.08 JC		30	Very Rough Rough	Undulating Undulating	Fe Oxide Calcite	Moderately Weathered Slightly Weathered	Coating	
Hydro	12.10		12.13 Jo		44	Rough	Curved	Calcite Fe Oxide	Slightly Weathered	Stained	
yd	12.25		12.35 JC			Rough	Undulating		Slightly Weathered	Clean	
Ξ	12.25		12.23 JC			Smooth		Unidentified	Slightly Altered	Intact	
Queensland	12.40		12.40 Jo			Rough		Fe Oxide	Slightly Weathered	Stained	
Sla	12.41		12.43 Jo			Rough	Curved	Calcite	Slightly Weathered	Vein	
en	12.47		12.49 Jo			Rough	Undulating		Slightly Weathered	Clean	
ne	12.51		12.60 V	ein	69	Smooth	Undulating	Calcite	Slightly Weathered	Intact	
	12.62		12.68 Jo		89	Smooth	Undulating	Fe Oxide	Slightly Weathered	Intact	
(C)	12.75		12.78 Jo		41	Smooth	Undulating		Slightly Weathered	Intact	
-	12.81		12.81 V			Smooth	Curved	Calcite	Slightly Altered	Intact	
	12.85		12.92 Jo		89	Smooth	Undulating	Calcite	Slightly Altered	Intact	
	13.16		13.16 Jo		1	-	Stepped		Slightly Weathered	Clean	
	13.17		13.44 Jo			Rough		Fe Oxide	Slightly Weathered	Stained	
	13.30	13.47	13.39 V	ein	71	Smooth	Undulating	Calcite	Slightly Altered	Intact	l I

F	From	Depth (m) To	Midpoint	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
ŀ	13.33	13.3		Vein	17	Smooth	Undulating	Calcite	Slightly Altered	Intact	
	13.33	13.4				Smooth	Undulating	Calcite	Slightly Altered	Intact	
ai	13.61	13.6			25	Rough	Undulating	Fe Oxide	Slightly Weathered	Stained	
page.	13.61	13.6				Rough	Undulating	Fe Oxide	Slightly Weathered	Stained	
ä	13.62 13.63	13.7				Smooth	Undulating		Slightly Weathered	Intact Intact	
cover	13.63	13.6 13.7				Smooth Smooth	Undulating Undulating		Slightly Weathered Slightly Weathered	Stained	
S	13.72	13.7				Smooth	Undulating	Fe Oxide	Slightly Weathered	Stained	
attached	13.73	13.7				Smooth	Undulating		Slightly Weathered	Stained	
С	13.77	13.7	78 13.78	Joint	58	Smooth	Undulating	Fe Oxide	Slightly Altered	Intact	
itta	13.78	13.9				Smooth	Undulating	Calcite	Slightly Altered	Intact	
ы	14.02 14.03	14.0 14.2				Rough	Undulating		Slightly Weathered	Stained Intact	
s o	14.03	14.2				Smooth Smooth	Undulating Undulating		Slightly Altered Slightly Altered	Intact	
ce	14.13	14.2				Smooth	Undulating	cultic	Slightly Weathered	Clean	
notices	14.27	14.3				Smooth	Undulating	Calcite	Slightly Altered	Intact	
Ž	14.32	14.4				Smooth	Undulating		Slightly Altered	Vein	
liability	14.36	14.3					Stepped		Slightly Altered	Infilled	
liat	14.44	14.5				Smooth	Undulating		Slightly Altered	Intact	
5	14.48 14.67	14.6 14.6				Smooth Smooth	Undulating Undulating		Slightly Altered Slightly Weathered	Intact Clean	
Ē	14.07	14.0				Smooth	Undulating		Slightly Altered	Intact	
atic	14.80	14.9				Smooth	Undulating	Calcite	Slightly Altered	Intact	
limitation (14.82	15.0	14.94	Joint	79	Smooth	Undulating	Calcite	Slightly Altered	Intact	
<u>⊨</u>	15.20	15.2				Smooth	Undulating		Slightly Altered	Intact	
and	15.38	15.3				Smooth	Curved	Unidentified			Dark green colour.
1t 9	15.44 15.52	15.5 15.5				Smooth	Stepped		Slightly Altered		Dark green colour.
ġ	15.62	15.6				Smooth Smooth	Undulating Undulating		Slightly Altered Slightly Weathered	Intact Clean	
DV1	15.63	15.8				Smooth	Undulating	Calcite	Slightly Altered	Intact	
copyright	15.69	15.9				Smooth	Undulating	Calcite	Slightly Altered	Intact	
note	15.70	15.7			35	Smooth	Undulating		Slightly Altered	Intact	
Ц	15.72	15.7				Smooth	Stepped		Slightly Altered	Vein	
Se	15.73 15.90	15.7 15.9				Smooth Smooth	Undulating Undulating	Calcite Calcite	Slightly Altered	Intact Coating	
Please I	15.90	15.9				Smooth	Undulating		Slightly Weathered Slightly Altered	Intact	
Δ.	15.94	15.9				Smooth	Undulating		Slightly Altered	Intact	
4.0.	16.06	16.0	07 16.07	Joint	23	Smooth	Undulating	Calcite	Slightly Altered	Intact	
ΒY	16.06	16.1				Smooth	Undulating		Slightly Altered	Intact	
B	16.10	16.1				Rough	Undulating		Slightly Weathered	Clean	
8	16.20 16.22	17.1 16.5				Smooth Smooth	Undulating Undulating	Calcite Calcite	Slightly Altered Slightly Altered	Intact Intact	<1m.
ŝ	16.43	16.6				Smooth	Undulating		Moderately Altered	Intact	
2025,	16.47	16.8				Smooth	Undulating		Moderately Altered	Intact	
p	16.68	16.8			78	Smooth	Undulating	Calcite	Moderately Altered	Intact	
/ Ltd	16.93	17.2				Smooth	Undulating		Slightly Altered	Intact	
Pty	17.17	17.2				Smooth	Undulating		Slightly Weathered	Stained	
Hydro I	17.21 17.27	17.2 17.2				Smooth Smooth	Undulating Undulating	Calcite Calcite	Slightly Altered Slightly Altered	Intact Intact	
yd.	17.35	17.2				Smooth	Curved		Slightly Altered	Intact	
Ξ	17.46	17.4				Smooth	Undulating		Slightly Altered	Intact	
Queensland	17.50	17.5				Smooth	Undulating	Calcite	Moderately Altered	Intact	
isi	17.57	17.5				Smooth	Undulating		Slightly Weathered	Clean	
eer	17.62	17.6				Smooth	Curved		Slightly Altered	Intact	
л	17.65 18.05	17.8 18.1				Smooth Rough	Stepped Planar	Calcille	Slightly Altered	Intact Stained	
() ()	18.03	18.3				Rough	Undulating				1mm infill
Ľ	18.29	18.4					Planar			Hairline	
	18.36	18.4	18.39	Joint			Planar			Hairline	
	18.43	18.5				Rough	Planar				2-3mm infill
	18.52	18.6				Rough	Undulating			Infilled	
	18.73	18.9	18.83	Joint	25	Rough	Planar			Clean	I I

Г		Depth (m)			Turne	Angle (9)	Boughposs	Shano	Infill	Weathering	Naturo	Commente
F	om	То	Midpo	int	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
ſ	18.93			18.96			Very Rough	Planar			Clean	
	19.03			19.09			Smooth	Planar				Chloritic
i.	19.07			19.14			Rough	Undulating			Infilled	2mm infill, white
ag	19.19			19.20		10	Rough	Planar			Clean Hairline	Less they down
L D	19.22 19.43			19.31 19.55			Rough	Undulating			Infilled	Less than 1mm. Up to 2mm white infill
on attached cover page	19.43			19.55			Rough	Planar		Slightly Altered	mmeu	op to zmin write inni
8	19.57			19.62			Rough	Undulating		Silging Altered	Infilled	2mm white infill
00	19.69			19.72			Very Rough	Undulating			Hairline	
-Ĕ	19.72			19.76			Rough	Undulating			Infilled	Less than 1mm greenish infill.
tta	19.73	19	9.83 1	19.78	Vein	70	Very Rough	Planar			Infilled	1mm greenish infill.
a	19.91			19.96			Very Rough	Planar			Infilled	3mm white infil.
þ	19.95			19.97			Rough	Planar		Slightly Altered		
es	20.04			20.04			Rough	Undulating				Less than 1mm infill.
ţ	20.05			20.08			Rough	Planar			Infilled	1mm white infill.
Ц	20.16 20.21			20.21 20.24			Rough	Planar			Hairline	
ĭ₹	20.21 20.21			20.24 20.27			Rough Rough	Planar Planar		Slightly Altered Slightly Altered	Hairline	
<u>i</u>	20.21			20.27			Rough	Planar			Hairline	
<u>1</u>	20.56).56		Joint		Rough	Curved			Clean	
ð	20.56			20.58			Rough	Planar			Clean	
ы	20.60			20.60		C	Rough	Planar			Healed	
ati	20.61			20.62		5	Smooth	Curved				Chloritic
Ē	20.61			20.64			Rough	Curved				Chloritic
≞	20.70		0.70		Joint		Rough	Planar			Clean	
ğ	20.80		0.80		Joint		Rough	Undulating		Slightly Altered	Stained	
l 5	20.86			20.90			Rough	Planar		Cliphelu Alegrad	Infilled	1mm infill.
<u>i</u> d	20.87 20.92		0.87 1.00 2	20.96	Joint Vein		Very Rough Rough	Undulating Planar			Stained Infilled	Less than 1mm infill.
<u>S</u>	20.92			20.96			Rough	Undulating			Infilled	1mm white infill.
Please note copyright and limitation of liability notices	21.00			21.15			Rough	Undulating			Hairline	White hairline.
e (21.00			21.14			Rough	Planar			Infilled	Less than 1mm infill.
g	21.09			21.13			Rough	Planar				1mm white infill.
e	21.25		.35 2	21.30	Vein		Rough	Planar				Up to 3mm infill white.
sas	21.29			21.33			Smooth	Planar		o ,		Greenish hairline stain.
₩	21.38			21.38			Rough	Planar			Clean	
0	21.50			21.50			Rough	Planar			Clean	
4.0.	21.53			21.61			Rough	Planar		o ,	Infilled	
B≺	21.67 21.81			21.75 21.83			Rough	Curved			Stained Infilled	Appears as a stain.
5	21.81 21.82				Vein Alteration Zone		Rough Rough	Curved Curved				Less than 1mm infill. Black staining.
S	21.82			21.89			Rough	Planar				Less than 1mm infilled.
2	22.03				Alteration Zone		Rough	Undulating				Altered area up to 20mm in thickness with few other surrounding defects.
2025,	22.09			22.13			Smooth	Planar				Chloritic
^v	22.15		2.20 2	22.18	Joint	30	Rough	Planar				Chloritic
Queensland Hydro Pty Ltd	22.87			22.90		30	Rough	Planar				Chloritic
₹	23.02			23.04			Rough	Planar		Slightly Altered		
5	23.03			23.21			Rough	Planar				Chloritic
ğ	23.08			23.22			Rough	Undulating			Hairline	A server sub-tractor (sector)
Ŧ	23.09			23.13			Rough	Undulating				1mm white infill.
р	23.16 23.20			23.19 23.22			Smooth	Planar Curved			Hairline Hairline	
ar	23.20 23.37			23.22 23.37			Very Rough Rough	Planar		Slightly Altered	naiiillie	
Sus	23.37			23.57			Rough	Planar			Hairline	
Jefe	23.46			23.50			Rough	Planar				1mm white infill.
бI	23.56			23.60			Rough	Planar			Infilled	1mm white infill.
(C)	23.63			23.64			Rough	Planar			Clean	
\sim	23.67	23	3.69 2		Alteration Zone		Smooth	Planar				Up to 5mm thick.
	23.71	23		23.74		45	Rough	Planar			Hairline	
	23.74			23.79			Rough	Curved			Stained	Chloritic
	23.78			23.80			Smooth	Curved			Hairline	Infill up to Decen
	23.82	23	3.88	23.85	vein	60	Smooth	Planar		I I	Infilled	Infill up to3mm.

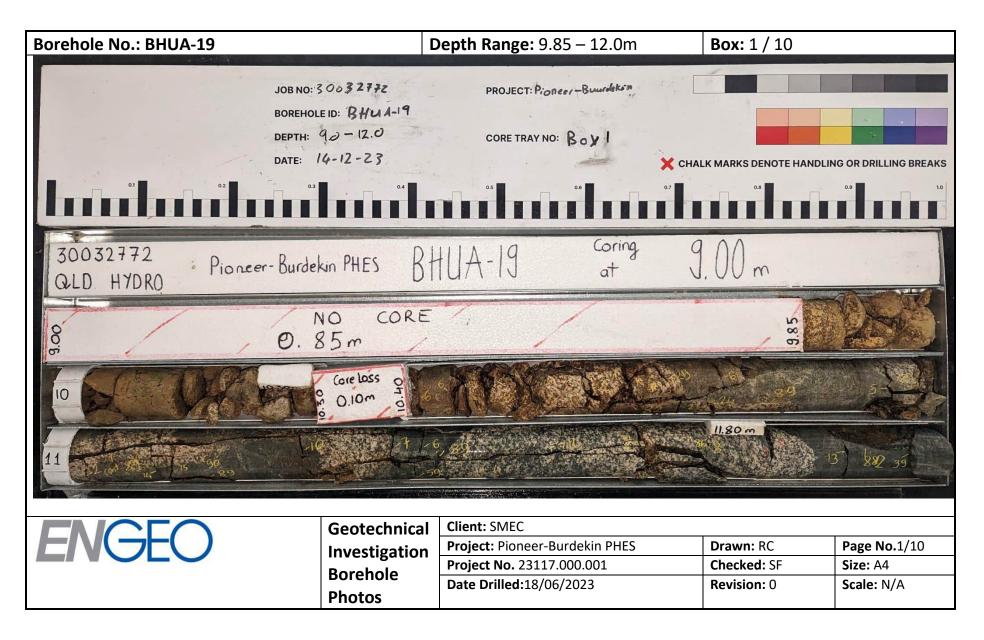
		Depth (m)		-							
From	ľ		Midpoint	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
	23.93	24.04	23.99	Vein	4	5 Rough	Planar			Infilled	2mm infill.
	24.14	24.15	24.15		1	5 Rough	Curved		Slightly Altered	Stained	
	24.15	24.16	24.16			0 Smooth	Planar		Slightly Altered	Infilled	Infilled white 3mm.
>	24.22	24.24	24.23			0 Smooth	Planar	Calcite		Infilled	
-	24.24	24.38	24.31			5 Rough	Planar	Calcite		Infilled	
	24.28	24.31	24.30			0 Rough	Planar	Calcite			
	24.29	24.55	24.42			0 Rough	Planar	Calcite			
	24.30	24.31	24.31			0 Rough	Curved/PL	Calcite			
	24.30	24.51	24.41			0 Rough	Stepped	Calcite			
	24.34	24.42	24.38			5 Rough	Planar	Calcite		Hairline	Hairline
	24.35 24.37	24.43 24.52	24.39 24.45			5 Rough	Planar Planar	Calcite Calcite		Hairline	Hairline
	24.37	24.52	24.45			0 Rough 0 Rough	Undulating	Calcite			
	24.38	24.34	24.40			5 Very Rough	Curved	Calcite			
	24.39	24.48	24.45			5 Rough	Undulating	Calcite			
	24.39	24.48	24.44			0 Rough	Planar	Calcite		Hairline	Hairline
	24.42	24.42	24.42			0 Rough	Planar	Calcite		i i dii iiii e	Tan me
`	24.45	24.43	24.45		7	0 Rough	Planar	Calcite			
	24.44	24.53	24.43			0 Rough	Stepped	Calcite			
	24.47	24.60	24.54			0 Rough	Planar	Calcite			
1	24.49	24.62	24.54			0 Rough	Planar	Calcite			
	24.50	24.62	24.56			0 Rough	Planar	Calcite			
	24.59	24.60	24.60			0 Rough	Planar		Slightly Altered		
	24.60	24.64	24.62			5 Smooth	Planar		Slightly Altered		
	24.67	24.71	24.69			0 Rough	Planar		Slightly Altered		
	24.68	24.71	24.70			5 Smooth	Planar		Slightly Altered		
	24.71	24.84	24.78	Vein		0 Rough	Planar	Calcite			
	24.72	24.79	24.76	Vein		0 Rough	Planar	Calcite			
, ,	24.72	24.85	24.79	Vein	7	0 Rough	Planar	Calcite			Two adjacent veins that converge at the ends.
2	24.78	24.88	24.83	Vein	6	0 Rough	Planar	Calcite			
	24.78	24.89	24.84	Vein	6	0 Rough	Planar	Calcite			
	24.78	24.96	24.87	Vein		0 Rough	Planar	Calcite			
	24.80	24.93	24.87		6	0 Rough	Planar	Calcite			
	24.81	24.87	24.84			0 Rough	Curved	Calcite			
	24.82	24.88	24.85			0 Rough	Curved	Calcite			
	24.83	24.90	24.87			0 Rough	Planar	Calcite			
	24.88	24.94	24.91			5 Rough	Planar	Calcite		Hairline	
	24.90	24.95	24.93			5 Rough	Planar	Calcite			
	24.90	24.97	24.94			5 Rough	Planar	Calcite			
	24.90	24.98	24.94	Vein	6	5 Rough	Planar	Calcite			
											Numerous calcite veins and white alteration oriented at 45°. Lightning shaped with some other
	25.00	25.37	25.19	Alteration Zone		5 Very Rough	Irregular	Calcite	Clinical and a second		murky sections.
	25.14			Joint	1	0 Rough	Planar		Slightly Altered		
	25.27	25.55	25.54	Joint		0 Rough	Planar	Calaita	Slightly Altered		
	25.46	25.56	25.51			5 Rough	Planar	Calcite		Hairling	
,	25.70	25.90 25.77		Alteration Zone		0 Rough	Planar Planar	Calcite		Hairline	
	25.75 25.93	25.77 25.99	25.76	Joint Alteration Zone		5 Rough	Planar Planar		Moderately Altored	Stained	
	25.93	25.99		Alteration Zone		4 Rough 0 Rough	Planar Planar		Moderately Altered	Stained	
	26.10			Alteration Zone			Planar			Stained	
1	26.10	26.21 26.33	26.18			0 Rough 0 Rough	Planar			Stained	
	26.22	20.33	13.20			0 Rough	Planar		Slightly Altered	Stained	
	26.43	26.51	26.47			0 Rough	Undulating		Slightly Altered		
	26.56	26.72	26.64			5 Very Rough	Undulating			Infilled	Green infill.
1	26.74	26.79	26.77			0 Rough	Curved	Calcite		Infilled	
1	26.87	26.89		Alteration Zone		5 Rough	Irregular		Slightly Altered	Infilled	
	26.87	26.96		Alteration Zone		0 Rough	Planar			Infilled	
· I	27.02	27.12	27.07			0 Rough	Planar	Calcite		Hairline	
1	27.11	27.45	27.28			0 Rough	Irregular	Calcite	Slightly Altered		
			0		Í				5		
	27.11	27.91	27.51	Alteration Zone	4	5 Very Rough	Irregular	Calcite	Slightly Altered	Hairline	Many hairline veins along this section, oriented at varying angles between 5 and 85 degrees.
	27.12			Joint		Rough	Planar		Slightly Altered		

Ę		Depth (m)	Instalate start	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
ŀ	-	То	Midpoint				Diana		Clintate Alternal		
	27.52 27.70	27.7	2 27.71	Joint		20 Rough 30 Rough	Planar Planar		Slightly Altered Slightly Altered		
	27.70	27.9			10-50	Rough	Planar	Calcite	Slightly Altered	Infilled	J x6, 10-50°, Pln, Ro, IF
page.	28.05	28.3			10 50	85 Rough	Undulating	Calcite	Slightly Altered	innica	3 x0, 10 50 , Fill, N0, II
oai	28.06			Joint		10 Rough	Planar		Slightly Altered		
5	28.28			Joint		0 Rough	Irregular		Slightly Altered		
ž	28.35	28.5	7 28.46	Vein		70 Rough	Planar	Calcite	Slightly Altered		
ŭ	28.47	28.5	2 28.50	Joint		45 Rough	Planar		Slightly Altered		
eq	28.60	28.7	6 28.68	Vein		75 Rough	Planar	Calcite			
attached cover	28.85			Joint		0 Rough	Planar		Slightly Altered		
Ite	29.04	29.19				70 Rough	Undulating	Calcite			
on 8	29.32	29.3				35 Rough	Planar	Calcite			
ō	29.40	29.4				45 Rough	Planar	Calaina	Slightly Altered		1mm infll.
notices	29.53 29.61	29.5 29.7				30 Rough 70 Rough	Undulating Planar	Calcite Calcite			1000 000
ij	29.69	29.7				50 Smooth	Planar	Calcite	Slightly Altered		
Ĕ	30.12	30.1				45 Rough	Planar	Calcite	Signa, Altered		
Ξ	30.28	30.34				55 Rough	Planar	Calcite			
abi	30.39	30.5				60 Very Rough	Planar	Calcite			
≝I	30.52	30.6	30.56	Vein		55 Rough	Planar	Calcite	Slightly Altered		
Ö	30.62		1	Vein		10 Rough	Planar		Moderately Altered		Greenish staining.
ō	30.64	30.6		Joint		20 Rough	Undulating		Slightly Altered		
and limitation of liability	30.68	30.70				20 Rough	Planar		Moderately Altered		
Ē	30.79	30.8				20 Rough	Curved		Slightly Altered	Coating	3mm greenish coating.
<u> </u>	30.91	30.9				20 Smooth	Planar	6. L 11	Slightly Altered		United France
ğ	31.04	31.20 31.9			0-20	75 Rough	Planar Planar	Calcite Calcite		Infilled Hairline	Up to 15 mm.
Ŧ	31.15 31.29	31.3			0-20	Rough 30 Rough	Planar	Calcile	Slightly Altered	Hairline	V x28, 0-20°, Pln, Ro, CA, HL
ig	31.29	31.3				45 Smooth	Planar		Slightly Altered		
<u>S</u>	31.31	31.3				30 Rough	Planar		Slightly Altered		
Please note copyright	31.75	31.8				50 Smooth	Planar		Slightly Altered		
te	32.04	35.04		Joint		45 Rough	Planar			Intact	J x51, 45°°, Pln, Ro, IT, with random veins between oriented apPlnox 70 to 90 degrees.
2	32.09	32.1				50 Smooth	Planar		Slightly Altered		
é	32.14	32.1				40 Rough	Planar	Calcite	Slightly Altered		
6a	32.19	32.2				30 Smooth	Planar		Slightly Altered		
Ē	32.34	32.3				30 Smooth	Planar	6. L 11	Slightly Altered		
4.0.	32.44	32.53 32.64				60 Smooth	Planar	Calcite	Slightly Altered		
4	32.59 32.63	32.6				55 Smooth 30 Rough	Planar Planar	Calcite	Slightly Altered Slightly Altered		up to 10mm thick.
B≺	32.03	32.8				55 Smooth	Planar	Calcite	Slightly Altered		up to romin thek.
SCI	32.85	33.0				65 Rough	Planar	Calcite		Infilled	Infilled up to 40mm.
	32.91	32.93				0 Rough	Stepped		Slightly Altered		
2025,	33.12	33.14				15 Rough	Planar	Calcite		Infilled	
20	33.14	33.2				70 Very Rough	Undulating	Calcite		Infilled	2mm.
0	33.24	33.2	7 33.26			30 Rough	Planar	Calcite		Infilled	Infilled 1mm.
Ξ I	33.28			Vein		10 Rough	Undulating	Calcite		Infilled	
£	33.29			Vein		5 Rough	Undulating	Calcite		Infilled	
0	33.35	33.40				0 Very Rough	Irregular	Calcite		Hairline	J x8, 0-75°, Pln, Ro, CA, HL
Queensland Hydro Pty Ltd	33.53 33.62	33.6				45 Rough	Planar Planar	Calcite	Slightly Altored	Hairline	V x6, 45°, Pln, Ro, CA, HL Some greenich amyrdales
ΞÌ	33.62 33.70	33.64 33.74				15 Rough 45 Rough	Planar Planar	Calcite	Slightly Altered	Infilled	Some greenish amygdales.
P	33.70	33.8				45 Rough	Planar	Calcite		Infilled	
Sla	33.76	33.8				80 Rough	Stepped	Calcite		Infilled	
сü	33.79	33.8				20 Rough	Planar	Calcite		Infilled	
ŢĒ	33.80	33.8	2 33.81	Vein		25 Rough	Planar	Calcite		Infilled	
	33.93	33.9	8 33.96			70 Rough	Undulating	Calcite		Infilled	
(C)	34.03	34.1				40 Rough	Planar	Calcite		Infilled	V x4, 30-45°, Pln, Ro, CA, IF
~	34.28	34.3				45 Very Rough	Planar	Calcite		Infilled	Up to 5mm.
	34.36	34.5				70 Rough	Planar	Calcite		Infilled	V x5, 70°, Pln, Ro, CA, IF
	34.53	34.5				20 Very Rough	Planar	Calcite		Infilled	4mm.
	34.57	34.6				65 Rough	Planar	Calcite		Intact	
1	34.64	34.74	4 34.69	vem	1	50 Rough	Planar	Calcite		Intact	I

F	rom	Depth (m) To	Midpoint	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
ľ	34.80	34.90		Vein	90	Rough	Irregular	Calcite		Infilled	3mm.
	35.10	35.12		Alteration Zone		Rough	Curved	concile		in the d	Intrusion boundary.
	35.16	35.21				Rough	Planar	Calcite		Hairline	
attached cover page	35.19	35.26	5 35.23		45	Rough	Planar	Calcite		Hairline	
g	35.31	35.66				Rough	Undulating	Calcite		Infilled	3mm.
ér	35.46	35.54				Rough	Planar	Calcite		Hairline	
õ	35.47	35.52				Rough	Planar	Calcite		Hairline	
q	35.63	35.74				Rough	Undulating	Calcite		Hairline	
he	35.69 35.77	35.72 35.91	2 35.71 L 35.84			Rough	Planar Planar	Calcite		Clean Infilled	
gc	36.12	36.24				Rough Rough	Planar	Calcile		Infilled	Grey mineral infill.
att	36.25	36.50				Rough	Undulating	Calcite		Infilled	5mm.
ы	36.46	36.55				Rough	Planar	Calcite		Infilled	Up to 10mm.
S	36.55	36.57				Rough	Planar		Slightly Altered		
<u>ic</u>	36.67	37.06	36.87	Joint		Rough	Undulating		Slightly Altered	Intact	
and limitation of liability notices	36.71	36.73	36.72		25	Rough	Curved		Slightly Altered	Intact	
5	36.74	36.76				Rough	Curved		Slightly Altered		
≣	36.86	36.90				Rough	Curved		Slightly Altered		
iat	36.91	36.93		Alteration Zone		Rough	Planar		Slightly Altered	Stained	Dark grey staining.
Щ.	37.03	37.03		Crushed Seam		Rough	Planar			Coating	
Ē	37.07 37.07	37.11				Rough	Curved			Intact	
Ei Ei	37.07	37.23 37.24				Rough Rough	Planar Planar		Slightly Altered	Intact	
nita	37.22	37.47				Rough	Planar	Calcite	Singhity Altered	Intact	3mm.
<u>.</u>	37.51	37.75			80	Nough	Undulating	cultic		Infilled	Up to 3mm.
g	37.64	37.64			0	Rough	Irregular			Intact	
ar	37.88	37.88				Rough	Planar		Slightly Altered		
Ę	37.95	38.08	3 38.02	Joint		Rough	Planar		Slightly Altered	Intact	
Ë	38.05	38.12			45	Rough	Planar		Slightly Altered	Stained	
ĝ	38.06	38.07				Rough	Curved				
ö	38.21	38.24				Rough	Planar		Slightly Altered		Greenish infill 3mm thick.
Please note copyright	38.23	38.28				Rough	Planar			Intact	
Ĕ	38.26	38.28				Rough	Curved			Intact	
ISe	38.28 38.31	38.33 38.35				Rough	Planar Planar			Intact Intact	
ea	38.38	38.43				Rough Rough	Planar			Intact	
Δ_	38.42	38.60				Rough	Curved			Infilled	
4.0.	38.43	38.53				Rough	Planar			Intact	
7	38.51	38.53				Rough	Undulating			Infilled	
ВY	38.54	38.60	38.57	Joint		Rough	Planar			Intact	
S	38.63	38.71	l 38.67		55	Rough	Planar			Infilled	3mm.
	38.72	38.78	38.75			Rough	Planar			Infilled	
2025,	38.76	38.80				Rough	Planar			Intact	
20	38.81	38.84				Rough	Curved		Slightly Altered	La Cilla d	
먹	38.82 38.87	38.98				Rough	Planar			Infilled Infilled	
Queensland Hydro Pty Ltd	38.87 39.06	38.97 39.10				Rough Rough	Planar Planar	Calcite		Infilled	V x3, 45°, Pln, Ro, IF
Ъ	39.06	39.10				Rough	Planar	Calcite		Infilled	Up to 8mm.
2	39.20	39.22				Rough	Undulating			Infilled	
<u>b</u>	39.24	39.24				Rough	Undulating		Slightly Altered		
포	39.40	39.57				Rough	Planar		5.7	Intact	
Ĕ	39.42	39.42				Rough	Planar			Intact	
IS S	39.45	39.45				Rough	Planar			Intact	
l se	39.57	39.61				Rough	Planar				
ne	39.65	39.65			5	Rough	Planar			Intact	
Q	39.70	39.70				Rough	Planar		Slightly Altered		
(C)	39.72	39.74		Alteration Zone		Rough	Curved			Stained	20mm thick band of dark grey alteration.
	39.80 39.82	39.82				Rough	Planar		Slightly Altered	Intact	
	39.82 39.96	39.86 40.14		Joint Alteration Zone		Rough Rough	Planar Planar		Slightly Altered Moderately Altered	Intact Stained	Brownish stain.
	40.04	40.14		Alteration Zone		Rough	Planar		Moderately Altered	Stained	5 altered bands resembling brownish stains, oriented 30 to 60 degrees.
	40.04							Calcite			40mm thick at largest point.
		.0.52		-	• 70				•		- 0

Fr	rom T	Depth (m)	Midpoint	Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
<u> </u>	40.21	40.3		Vein	70	Rough	Planar	Calcite	Moderately Altered	Infilled	I
	40.36	40.4		Alteration Zone	,,,	nough	Irregular	Calore	Moderately Altered	Stained	
	40.54	40.6			60	Rough	Planar	Calcite		Hairline	
attached cover page	40.60	40.6	2 40.61	Vein		Rough	Planar	Calcite		Hairline	
pa	40.73	40.7	8 40.76	Vein		Rough	Undulating	Calcite		Infilled	3mm infill.
Ъ	40.80	40.8	2 40.81	Vein	5	Rough	Planar	Calcite		Infilled	
Š 🗌	40.81	40.9	6 40.89	Vein	85	Rough	Planar	Calcite		Intact	
õ	40.88	40.9	1 40.90	Joint		Rough	Planar			Intact	
ĕ	41.04	41.0				Rough	Planar		Slightly Altered		
	41.13	41.1				Rough	Irregular			Intact	
Ĩ	41.22	41.2				Rough	Planar			Intact	
UO UO	41.32	41.3				Rough	Planar	o. L. 1.		Intact	
ō	41.43	41.5				Rough	Planar	Calcite		Intact	30mm.
es	41.57	41.6				Rough	Planar	Calcite	Clinical a Albana d	Intact	2mm.
notices	41.59	41.5 41.8				Very Rough	Planar Planar		Slightly Altered		
Ĕ	41.81 41.85	41.8				Rough	Undulating			Intact	
£	42.01	41.8				Rough Rough	Planar			Intact	
ā	42.01	42.0				Rough	Undulating	Calcite		Infilled	
la	42.08	42.4				Rough	Planar	carotte		Intact	
đ	42.41	43.1				Very Rough	Planar	Calcite		Infilled	Up to 15mm.
limitation of liability	42.56	42.5				Rough	Planar			Intact	
Ĭ	42.61	42.6				Rough	Planar			Intact	
Ĕ	42.72	42.7				Rough	Planar			Intact	
Ξ	43.00	43.1				Rough	Planar			Intact	
and	43.19	43.1	9 43.19	Joint		Rough	Planar			Intact	
ar	43.20	43.3	6 43.28	Joint	85	Rough	Undulating			Intact	
Ĕ	43.24	43.2	9 43.27	Joint		Rough	Planar			Intact	J x3, 45°, Pln, Ro, IT
Ę	43.29	43.4	0 43.35	Joint	85	Rough	Undulating			Intact	
ĝ	43.30	43.3	2 43.31	Joint		Rough	Planar		Slightly Altered		
S	43.39	43.4	6 43.43	Joint		Rough	Irregular			Intact	10 to 80 degrees.
Please note copyright	43.41	43.5				Rough	Planar			Intact	
Ĕ	43.49	43.5				Rough	Irregular		Slightly Altered		
ŝē	43.51	43.5				Rough	Planar			Intact	
ea	43.58	44.0		Alteration Zone		Very Rough	Irregular	Calcite	Moderately Altered	Infilled	Alteration with calcite inclusions/veins.
ă I	43.61	43.6				Rough	Planar			Intact	
4.0.	43.72	43.7				Smooth	Planar	o. L 1:	Slightly Altered		2
	43.73	43.7				Smooth	Planar	Calcite	Manda wata ku Albawa d	Infilled Infilled	2mm. White forces alterations with this solaits within and along the horder.
BY	44.18 44.48	44.4 44.4		Alteration Zone		Rough	Irregular	Calcite	Moderately Altered	Infilled	Whitish/green alterations with thin calcite veins within and along the border.
	44.48	44.4				Very Rough Smooth	Planar Planar		Slightly Altered	Infilled	1mm infill.
2 C	44.50	44.5				Smooth	Planar		Slightly Altered	mmeu	1000 0000
2	44.57	44.5				Rough	Undulating	Calcite	Singhtly Altered	Infilled	3mm infill.
2025,	44.63	44.5		Alteration Zone		Rough	Planar		Slightly Altered	Stained	
	44.67	44.6				Rough	Planar		Slightly Altered		
Ltd	44.77	44.8				Rough	Irregular	Calcite		Infilled	Up to 4mm infill.
Ptyl					50						Greenish white alteration with some calcite veins oriented apPlnox 90 degrees, undulating. Infilled
ط ا	44.89	45.1	6 45.03	Alteration Zone	90	Very Rough	Irregular	Calcite	Moderately Altered	Infilled	up to 7mm at largest point.
Queensland Hydro	45.19	45.3				Rough	Irregular	Calcite		Infilled	Up to 4mm.
ĭ	45.31	45.3				Rough	Undulating	Calcite		Intact	5mm infill.
÷	45.33	45.3		Alteration Zone		Very Rough	Curved		Slightly Altered		
Ĭ	45.37	45.4				Rough	Curved	Calcite		Infilled	Up to 20mm at thickest point.
<u>si</u>	45.49	45.5				Rough	Undulating	Calcite		Infilled	2mm.
l l	45.65	45.9				Rough	Undulating	Calcite	Moderately Altered	Infilled	Possible calcite? Black colouration? Forks in two
ne	46.01	46.0				Rough	Undulating			Intact	
O	46.19	46.3	5 46.27	Vein	55	Very Rough	Undulating	Calcite		Infilled	2mm infill.
(C							I				V x12, 30-45°, Pln, Ro, SN. Hairline alterations between randomly oriented. Altered bands are 30-4
	46.20	46.7	8 46.49	Vein	45	Rough	Planar		Moderately Altered	Stained	degrees. Bands from 1 - 5 mm thick.
											V x2, 45°, UN, Ro, IF. Areas between are filled with randomly oriented calcite veins, hairline to 1mm
	46.25	46.4				Rough	Undulating	Calcite		Infilled	thickness.
	46.32	46.7 46.5		Alteration Zone Alteration Zone	70	Rough	Planar			Stained	Few white mineral amygdales, up to 4mm in size.
	46.45										sew white mineral amundales up to 1mm in size

	Depth (m)			Туре	Angle (°)	Roughness	Shape	Infill	Weathering	Nature	Comments
F	rom	То	Midpoint	туре	Angle ()	Rouginiess	Shape		weathering	Nature	comments
Ē	46.63	46.95	46.79	Vein	90	Rough	Planar			Infilled	Dark grey infill? 2mm thick.
	46.69	46.76	46.73	Alteration Zone	35	Rough	Planar		Slightly Altered	Stained	
-:	46.73			Alteration Zone	5	Rough	Undulating		Slightly Altered	Stained	
<u>d</u>	46.77	46.88	46.83	Alteration Zone	50	Rough	Planar		Slightly Altered	Stained	
page.	46.86	47.82	47.34	Alteration Zone	45	Rough	Planar		Slightly Altered	Infilled	
Ξ	47.02	47.07	47.05	Alteration Zone	20	Rough	Planar			Stained	
cover	47.09	47.17	47.13	Alteration Zone	65	Rough	Planar			Stained	
5	47.21	47.24	47.23	Alteration Zone	40	Rough	Planar			Stained	
Ð	47.69	47.70	47.70	Joint	10	Rough	Planar		Slightly Altered		
5	47.73	47.91	47.82	Alteration Zone	75	Rough	Planar			Stained	
allacheu	47.93	47.93	47.93	Joint	5	Very Rough	Stepped		Slightly Altered		
а	48.09	48.09	48.09	Joint	0	Very Rough	Planar		Slightly Altered		
БL	48.26	48.28	48.27	Joint	15	Rough	Planar			Intact	











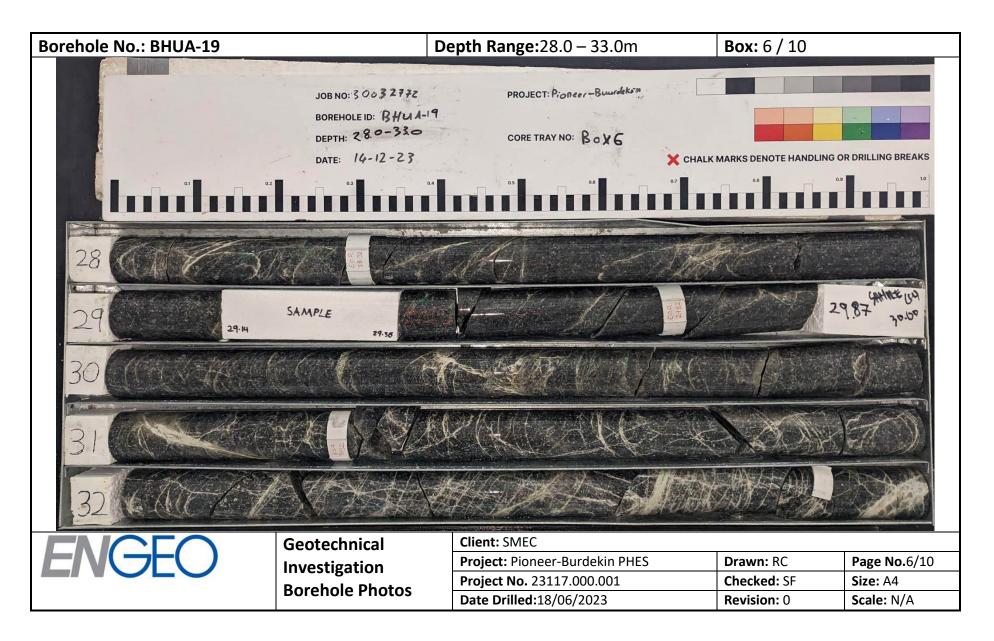




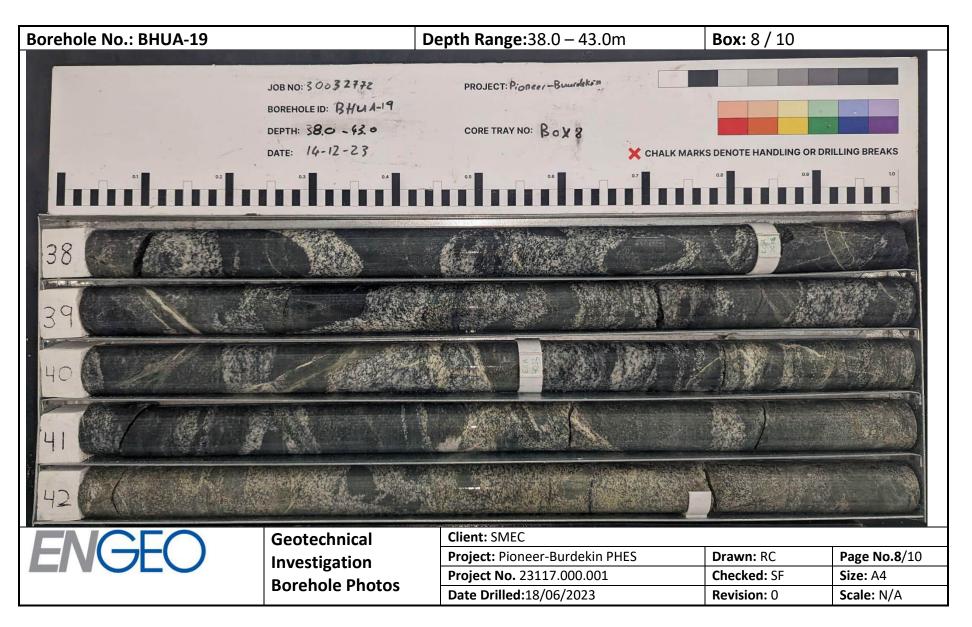








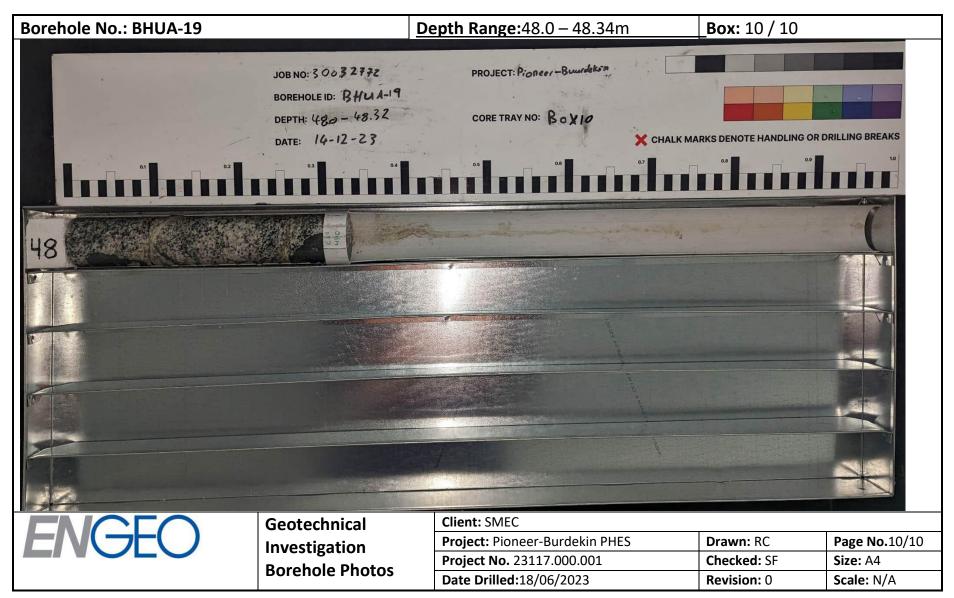




ENGEC

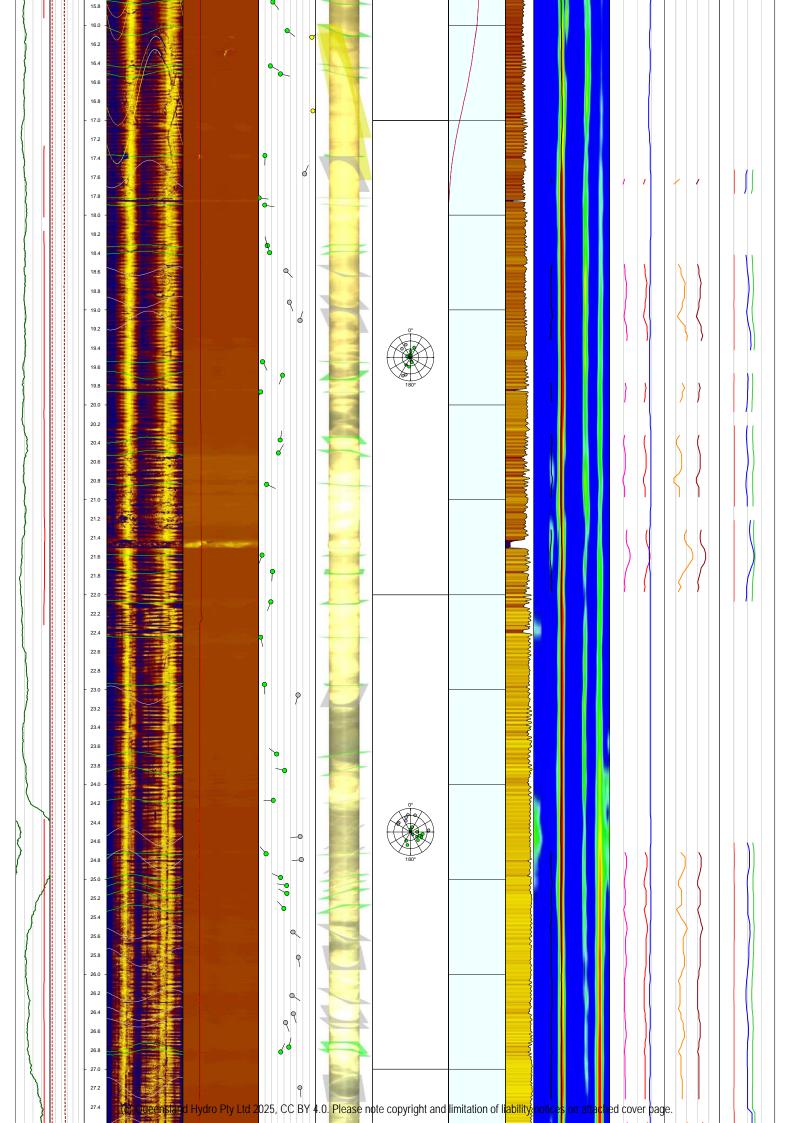


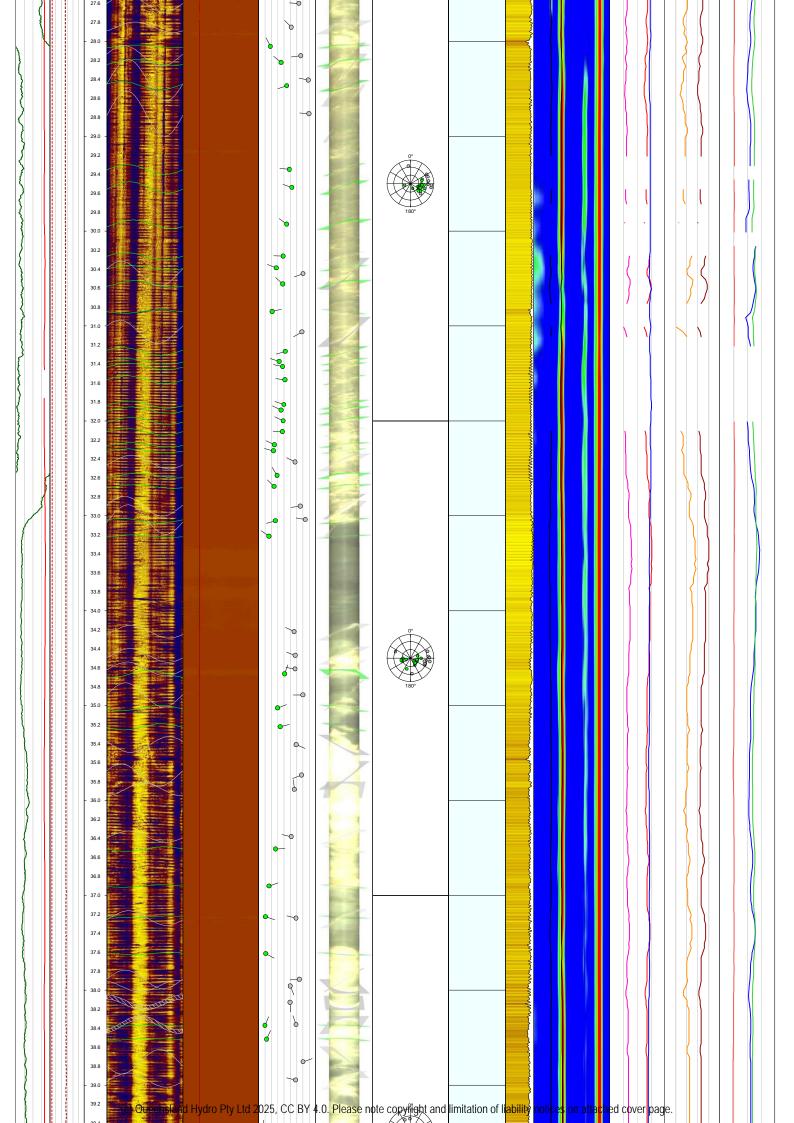
ENGEO

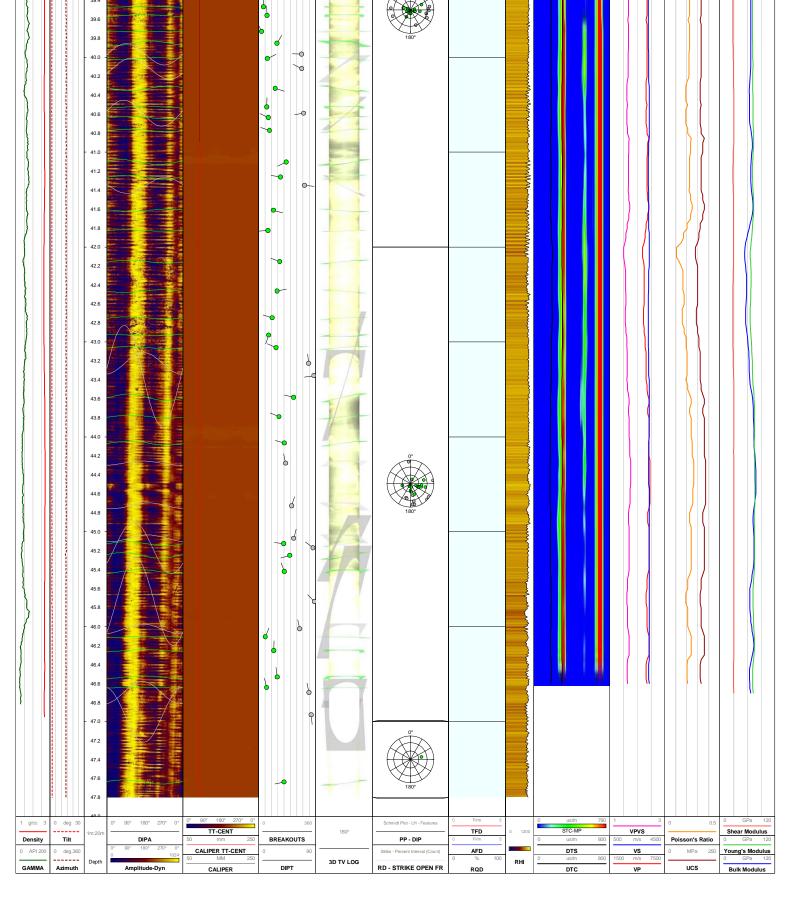




			BOPE				OSITE LOG					₿ Ep	iroc		
			BURE			FULL WA			AUVA						
Hole Name Field Log Date Location	EUNGELI 31/08/202	LA		Drill Depth Bit Size Casing Ty Casing De	96mm pe STEEL		Grid Name Collar East Collar Nort Reduced L	ing 657634m hing 7664290m			Logging Unit Engineer Client Represent Service Type	SV013 JORDAN TE tative TIM HARDIO Televiewer II	BAN		
те	LEVIEWER LC	OGS		STRUCTURAL L	LOGS	FEATURES & TADPOLES									
nplitude A	TV Amplitude I		DIPA	Apparent Dip F (Sinusoid Prese	eature Picks										
TV LOG 3 per TT-CENT A / Picture O	D Televiewer In Acoustic Travel 1 Optical Teleview	nage Time Caliper ver Image	DIPT RD - STRIKI	True Dip Featu (Tadpole Prese Rose Diagram	re Picks	O Parti	ally Open Fracture 🧳	Closed Fracture		Foliation/Banding/Bo	edding ÓHe	aled Fracture/Vein			
		me-Coherence Projection	PP - DIP		n - Dip (Schmidt)										
SI	ompressional wave hear wave slownes	ss		RUCTURAL ANAL		COMMENTS Image and azimuth data are presented oriented to True north. The magnetic declination correction is +8.12 degrees.									
SI	ompressional wave		ratio TFD (Partial) Open True rength RHI Rock Hardness		parent Fracture Density				-		-				
U	niaxial (Unconfined	hear wave velocity ratio d) Compressive Strength elastic deformation				Rock Quality D divided by the (esignation (RQD) is the (Sun Total length of the interval) ti	n of length of image imes (100%). RQD I	interval sei as been ca	ctions of more than 10 cm le alculated for one meter inter	ength unaffected b rvals.	y open fractures, faults	& breakouts)		
ngʻs Modulus M	laterial length chan	nge by applied stress volume by applied stress	GEOPH	IYSICAL AND VER	TICALITY LOGS										
		placement by applied stress	Density GAMMA Tilt		a Ray n (0 = Vertical Down)	moving average Uniaxial Comp	ack was produced by proces e filter, stacking and a freque ressive Strength (UCS) was o IPa and DTC in µs/m units.	ncy filter.							
			Azimuth CALIPER	Hole Azimuth Mechanical Ca	liper		was calculated from DTC &	DTS. Young's, Bulk	& Shear M	odulus were calculated from	n DTC, DTS & De	nsity estimated as $\rho =$	0.31.Vp exp(1/4		
IN	IPORTANT NO	те				oc Kinetic Logging S	llowing interpretations are op Services cannot and does not	guarantee the corre	ctness or a	accuracy of any interpretation					
AMMA Azim	uth	Amplitude-Dyn		Therefore, E	Epiroc Kinetic Logging		e liable or responsible for any RD - STRIKE OPEN FR	v loss, damage, cost		e incurred or sustained by a DTC	anyone resulting fro	om any interpretations.	Bulk Modul		
API 200 0 deg	g 360	0 0° 90° 180° 270°	1024 0° CA	MM 250	0 90	3D TV LOG	Strike - Percent Interval (Count)	0 % 100 AFD	RHI	0 us/m 800 DTS	VS	0 MPa 250	0 GPa Young's Mod		
nsity Til	1m:20m	DIPA 0° 90° 180° 270°	0° 0° 90	mm 250 TT-CENT	BREAKOUTS	180°	PP - DIP Schmidt Plot - LH - Features	0 Film 5 TFD 0 Film 5	0 1200	0 us/m 800 STC-MP 0 us/m 790	VPVS	Poisson's Ratio	0 GPa Shear Modu 0 GPa		
	9.6 9.8 - 10.0 - 10.2 10.4 10.6 - 11.0 - 11.2 11.4 11.6								MMM						
	11.8 12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 13.8 14.0 14.2 14.4 14.6 14.8 14.8 15.0 15.2						0° 0° 180°				}	> > > > > > > > > > > > > > > > > > >			







BHUA_19 Televiewer Structures

Depth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
			mm		71	
12.38	206.12	71.2			2	Partially Open Fracture
12.77	123.41	80.6	0		3	Closed Fracture
13.18	216.46	11.63	0		4	Foliation/Banding/Bedding
13.33	252.73	32.35	0		4	Foliation/Banding/Bedding
13.6	253.01	39.91	0		3	Closed Fracture
13.77	13.37	10.56	0		4	Foliation/Banding/Bedding
13.79	90.77	70.81	0		3	Closed Fracture
13.87	88	68.72	0		3	Closed Fracture
13.97	8.65	18.54	0			Foliation/Banding/Bedding
14.15	74.49	50.32	0		3	Closed Fracture
	113.4		0			Closed Fracture
	50.76		0			Closed Fracture
			0			Closed Fracture
			0	203.30-242.00		Partially Open Fracture
			0			Closed Fracture
						Foliation/Banding/Bedding
						Closed Fracture
						Foliation/Banding/Bedding
						Foliation/Banding/Bedding
						Partially Open Fracture
						Partially Open Fracture
				197.34-262.14		Partially Open Fracture
						Closed Fracture
						Foliation/Banding/Bedding
						Foliation/Banding/Bedding
				204.11-252.71		Partially Open Fracture
						Foliation/Banding/Bedding
				07 70 050 40		Foliation/Banding/Bedding
				27.76-258.16		Partially Open Fracture
						Foliation/Banding/Bedding Healed Fracture/Vein
						Foliation/Banding/Bedding
						Foliation/Banding/Bedding
						Foliation/Banding/Bedding
						Foliation/Banding/Bedding
						Healed Fracture/Vein
						Healed Fracture/Vein
						Healed Fracture/Vein
						Foliation/Banding/Bedding
						Foliation/Banding/Bedding
		3				Foliation/Banding/Bedding
20.37	8.44	34.07	0			Foliation/Banding/Bedding
20.51	29.57	31.13	0			Foliation/Banding/Bedding
20.84	114.23	12.51	0			Foliation/Banding/Bedding
21.58	202.87					Foliation/Banding/Bedding
	12.38 12.77 13.18 13.33 13.6 13.77 13.79 13.79 13.87 13.97 14.15 14.25 14.25 14.32 14.32 14.37 14.32 14.37 15.31 14.39 14.43 14.43 14.43 14.47 15.29 15.29 15.29 15.29 15.49 14.92 15.41 15.55 16.06 16.58 16.58 16.51 16.58 16.51 16.55 16.58 16.51 16.58 16.51 16.55 17.37 17.57	12.38206.1212.77123.4113.18216.4613.33252.7313.6253.0113.7713.3713.7990.7713.878813.978.6514.1574.4914.25113.414.3250.7614.33209.0815.3146.2614.3559.4714.4317.614.4317.614.4317.614.43137.915.3146.2614.3959.4714.4317.614.4317.614.4317.614.51103.9315.2949.3115.2949.3115.4150.9115.75142.3416.6352.2616.43117.4716.51103.9316.8552.2616.43117.4716.51103.9316.8547.1917.37181.2917.3722.2117.8298.4117.83345.5618.49135.3318.92158.9119.55153.2219.69201.5720.378.4420.5129.5720.84114.23	12.38206.1271.212.77123.4180.613.18216.4611.6313.33252.7332.3513.6253.0139.9113.7713.3710.5613.7990.7770.8113.878.6518.5414.1574.4950.3214.25113.460.7414.3250.7671.114.33209.0829.5315.3146.2687.1114.3959.4773.9714.4317.612.1214.4317.612.1214.4317.612.1214.4317.612.1214.4317.612.1214.4317.612.1214.4317.612.1214.4317.612.1214.4317.680.8715.2949.3180.8715.4046.4883.8614.9226.582.3915.4150.9180.0215.75142.3422.5416.06128.9645.1616.5852.2684.316.43117.4718.5416.51103.9334.3617.37181.299.9817.37181.299.9817.37181.299.9817.39101.119.618.42345.5613.8918.43342.6717.5418.59135.3343.3118.92153.226.38 <t< td=""><td>12.38 206.12 71.2 0 12.77 123.41 80.6 0 13.18 216.46 11.63 0 13.33 252.73 32.35 0 13.6 253.01 39.91 0 13.77 13.37 10.56 0 13.79 90.77 70.81 0 13.87 88 68.72 0 13.97 8.65 18.54 0 14.15 74.49 50.32 0 14.25 113.4 60.74 0 14.32 50.76 71.1 0 14.32 50.76 71.1 0 14.31 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 15.29 49.31 80.87 0 15.49 46.48 83.</td><td>12.38 206.12 71.2 0 151.62-250.62 12.77 123.41 80.6 0 13.18 216.46 11.63 0 13.33 252.73 32.35 0 13.6 253.01 39.91 0 13.77 13.37 10.56 0 13.79 90.77 70.81 0 13.87 88 68.72 0 13.97 8.65 18.54 0 14.15 74.49 50.32 0 14.32 50.76 71.1 0 14.32 50.76 71.1 0 14.33 46.26 87.11 0 203.30-242.00 14.33 17.6 12.12 0 1 14.43 17.6 12.12 0 1 14.43 17.6 12.12 0 1 14.43 17.6 12.12 0 1 15.29 49.31 80.87 0 14.92 15.75 142.34 22.54 0 1 <!--</td--><td>n deg deg nm deg deg 12.38 206.12 71.2 0 151.62-250.62 2 12.77 123.41 80.6 0 </td></td></t<>	12.38 206.12 71.2 0 12.77 123.41 80.6 0 13.18 216.46 11.63 0 13.33 252.73 32.35 0 13.6 253.01 39.91 0 13.77 13.37 10.56 0 13.79 90.77 70.81 0 13.87 88 68.72 0 13.97 8.65 18.54 0 14.15 74.49 50.32 0 14.25 113.4 60.74 0 14.32 50.76 71.1 0 14.32 50.76 71.1 0 14.31 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 14.43 17.6 12.12 0 15.29 49.31 80.87 0 15.49 46.48 83.	12.38 206.12 71.2 0 151.62-250.62 12.77 123.41 80.6 0 13.18 216.46 11.63 0 13.33 252.73 32.35 0 13.6 253.01 39.91 0 13.77 13.37 10.56 0 13.79 90.77 70.81 0 13.87 88 68.72 0 13.97 8.65 18.54 0 14.15 74.49 50.32 0 14.32 50.76 71.1 0 14.32 50.76 71.1 0 14.33 46.26 87.11 0 203.30-242.00 14.33 17.6 12.12 0 1 14.43 17.6 12.12 0 1 14.43 17.6 12.12 0 1 14.43 17.6 12.12 0 1 15.29 49.31 80.87 0 14.92 15.75 142.34 22.54 0 1 </td <td>n deg deg nm deg deg 12.38 206.12 71.2 0 151.62-250.62 2 12.77 123.41 80.6 0 </td>	n deg deg nm deg deg 12.38 206.12 71.2 0 151.62-250.62 2 12.77 123.41 80.6 0

Feature Depth	Depth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
m	m	deg	deg	mm	deg	71	
21.76		-	21.75	0		4	Foliation/Banding/Bedding
22.08		202.17	19.06	0			Foliation/Banding/Bedding
22.45		167	2.86	0			Foliation/Banding/Bedding
22.95		180.29	9.35				Foliation/Banding/Bedding
22.00			62.33	0			Healed Fracture/Vein
23.68		307.01	28.62	0			Foliation/Banding/Bedding
23.85		285.53	41.22	0			Foliation/Banding/Bedding
23.83		285.53	23.15	0			Foliation/Banding/Bedding
		266.84	65.7				Healed Fracture/Vein
24.55				0			
24.73		318.13	11.81	0			Foliation/Banding/Bedding
24.79		265.2	67.38	0			Healed Fracture/Vein
24.98		292.96	34.8	0			Foliation/Banding/Bedding
25.07		280.53	44.38	0			Foliation/Banding/Bedding
25.15		296.79	44.64	0			Foliation/Banding/Bedding
25.31		318.15	40.02	0			Foliation/Banding/Bedding
25.56		128.37	54.23	0			Healed Fracture/Vein
25.82		171.79	62.72	0			Healed Fracture/Vein
26.23			52.79	0			Healed Fracture/Vein
26.42		163.68	55	0			Healed Fracture/Vein
26.51		157.85	42.62	0			Healed Fracture/Vein
26.77	26.77	13.54	47.81	0		4	Foliation/Banding/Bedding
26.82	26.82	25.17	34.69	0		4	Foliation/Banding/Bedding
27.2	27.2	172.95	65.24	0		5	Healed Fracture/Vein
27.6	27.6	272.21	63.65	0		5	Healed Fracture/Vein
27.85	27.85	314.39	51.49	0		5	Healed Fracture/Vein
28.05	28.05	333.01	18.56	0		4	Foliation/Banding/Bedding
28.15	28.15	261.53	66.62	0		5	Healed Fracture/Vein
28.22	28.22	309.43	35.3	0		4	Foliation/Banding/Bedding
28.41	28.41	281.17	78.72	0		5	Healed Fracture/Vein
28.47	28.47	250.81	44.26	0		4	Foliation/Banding/Bedding
28.76	28.76	274.51	79.56	0		5	Healed Fracture/Vein
29.35		275.62	48.74	0		4	Foliation/Banding/Bedding
29.54	29.54	288.98	52.39	0			Foliation/Banding/Bedding
29.93		306.68	44.31	0		4	Foliation/Banding/Bedding
30.26		272.3	38.79	0			Foliation/Banding/Bedding
30.39		291.26	28.03				Foliation/Banding/Bedding
30.45			70.08				Healed Fracture/Vein
30.56			38.01	0			Foliation/Banding/Bedding
30.85		74.66	21.39				Foliation/Banding/Bedding
31.06			68.47	0			Healed Fracture/Vein
31.27		254.83	41.94	0			Foliation/Banding/Bedding
31.37		287.43	32.45				Foliation/Banding/Bedding
31.43			37.81	0			Foliation/Banding/Bedding
31.43		276.87	41.66				Foliation/Banding/Bedding
31.37		270.87	39.87	0			Foliation/Banding/Bedding
31.83		288.56	39.87	0			Foliation/Banding/Bedding
31.89	51.09	295.78	JJ.3/	0		4	Fouation/ banuing/ Bedding

Feature Depth	Depth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
	m	deg	deg	mm	deg	71	
32	32	294.66	38.64	0		4	Foliation/Banding/Bedding
32.11	32.11	272.63	37.41	0			Foliation/Banding/Bedding
32.25	32.25	294.66	24.96	0			Foliation/Banding/Bedding
32.32	32.32	284.78	23.32	0			Foliation/Banding/Bedding
32.43	32.43	295.54	57.71	0			Healed Fracture/Vein
32.58	32.58	328.64	29.24	0			Foliation/Banding/Bedding
32.69	32.69	315.59	24.27	0			Foliation/Banding/Bedding
32.9	32.9	264.11	65.87	0			Healed Fracture/Vein
33.04	33.04	279.85	73.83	0			Healed Fracture/Vein
33.05	33.05	275.05	26.52	0			Foliation/Banding/Bedding
33.22	33.22	305.65	16.23	0			Foliation/Banding/Bedding
34.22	34.22	296.11	56.22	0			Healed Fracture/Vein
	34.22		56.22				Healed Fracture/Vein
34.47	34.47	290.93	58 57.52	0			Healed Fracture/Vein
34.61		278.89		0			
34.67	34.67	18.7	41.1	0			Foliation/Banding/Bedding
34.89	34.89	268.78	69.91	0			Healed Fracture/Vein
35.03	35.03	67.22	30.13	0			Foliation/Banding/Bedding
35.22	35.22	75.6	34.14	0			Foliation/Banding/Bedding
35.41	35.41	113.22	59.36	0			Healed Fracture/Vein
35.73	35.73	248.51	67.78	0			Healed Fracture/Vein
35.88	35.88	354.26	56.53	0			Healed Fracture/Vein
36.38	36.38	282.91	51.72	0			Healed Fracture/Vein
36.51	36.51	87.87	26.78	0			Foliation/Banding/Bedding
36.9	36.9	70.82	16.61	0			Foliation/Banding/Bedding
37.23	37.23	107.45	10.93	0			Foliation/Banding/Bedding
37.24	37.24	283.59	59.12	0			Healed Fracture/Vein
37.61	37.61	118.44					Foliation/Banding/Bedding
37.89	37.89	267.97	64.45				Healed Fracture/Vein
37.96	37.96	156.09	49.74	0		5	Healed Fracture/Vein
38.13	38.13	177.12	49.49	28.9		5	Healed Fracture/Vein
38.36	38.36	340.12	59.13	20.39		5	Healed Fracture/Vein
38.37	38.37	23.57	9.78	0		4	Foliation/Banding/Bedding
38.52	38.52	24.21	12.67	0			Foliation/Banding/Bedding
38.75	38.75	69.74	70.26	0		5	Healed Fracture/Vein
38.95	38.95	282.26	58.54	0		5	Healed Fracture/Vein
39.47	39.47	358.23	7.67	0		4	Foliation/Banding/Bedding
39.56	39.56	357.73	13.14	0		4	Foliation/Banding/Bedding
39.73	39.73	333.81	4.53	0		4	Foliation/Banding/Bedding
39.85	39.85	29.4	28.68	0		4	Foliation/Banding/Bedding
39.97	39.97	272.43	67.66	0		5	Healed Fracture/Vein
40.01	40.01	64.46	13.91	0		4	Foliation/Banding/Bedding
40.12	40.12	296.39	67.97	0		5	Healed Fracture/Vein
40.33	40.33	105.74	26.17	0		4	Foliation/Banding/Bedding
40.52	40.52	0.63	12.85	0			Foliation/Banding/Bedding
40.59	40.59	260.37	71.23				Healed Fracture/Vein
40.64	40.64	295.31	15.23				Foliation/Banding/Bedding

Feature Depth	Depth	Azimuth	Dip	Aperture	Visible Azimuth Ranges	Туре	Features
m	m	deg	deg	mm	deg		
40.77	40.77	289.88	17.22	0		4	Foliation/Banding/Bedding
41.1	41.1	244.86	43.57	0		4	Foliation/Banding/Bedding
41.26	41.26	279.86	34.63	0		4	Foliation/Banding/Bedding
41.35	41.35	95.24	72.75	0		5	Healed Fracture/Vein
41.61	41.61	106.56	23.55	0		4	Foliation/Banding/Bedding
41.83	41.83	266.41	14.83	0		4	Foliation/Banding/Bedding
42.15	42.15	289.89	33.37	0		4	Foliation/Banding/Bedding
42.46	42.46	77.55	28.98	0		4	Foliation/Banding/Bedding
42.75	42.75	287.31	21.3	0		4	Foliation/Banding/Bedding
42.93	42.93	199.83	15.99	0		4	Foliation/Banding/Bedding
43.06	43.06	294.01	27.49	0		4	Foliation/Banding/Bedding
43.23	43.23	354.17	78.92	0		5	Healed Fracture/Vein
43.36	43.36	261.51	87.32	0		5	Healed Fracture/Vein
43.58	43.58	283.48	55.21	0		4	Foliation/Banding/Bedding
43.79	43.79	294.06	32.08	0		4	Foliation/Banding/Bedding
44.07	44.07	286.84	40.38	0		4	Foliation/Banding/Bedding
44.28	44.28	348.07	42.53	0		5	Healed Fracture/Vein
44.73	44.73	16.96	52.16	0		5	Healed Fracture/Vein
45.07	45.07	13.86	55.49	0		5	Healed Fracture/Vein
45.13	45.13	277.15	39.59	0		4	Foliation/Banding/Bedding
45.17	45.17	306.79	85.79	0		5	Healed Fracture/Vein
45.25	45.25	254.71	49.19	0		4	Foliation/Banding/Bedding
45.42	45.42	339.14	40.36	0		4	Foliation/Banding/Bedding
45.74	45.74	314.05	88.24	0		5	Healed Fracture/Vein
46.02	46.02	348.52	64.85	0		5	Healed Fracture/Vein
46.11	46.11	22.27	10.37	0		4	Foliation/Banding/Bedding
46.25	46.25	0.6	23.96	0		4	Foliation/Banding/Bedding
46.53	46.53	352.35	29.41	0		4	Foliation/Banding/Bedding
46.64	46.64	347.82	12.57	0		4	Foliation/Banding/Bedding
46.7	46.7	348.2	79.6	0		5	Healed Fracture/Vein
46.93	46.93	174.63	83.08	0		5	Healed Fracture/Vein
47.64	47.64	257.1	40.14	0		4	Foliation/Banding/Bedding



BHUA_19

SMEC - Pioneer-Burdekin

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

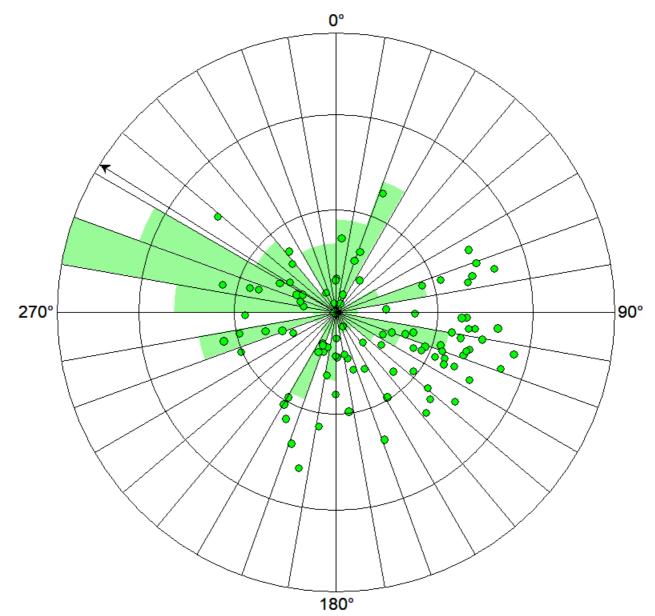
Log Date: 31 August 2023

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.

Page 1 of 5

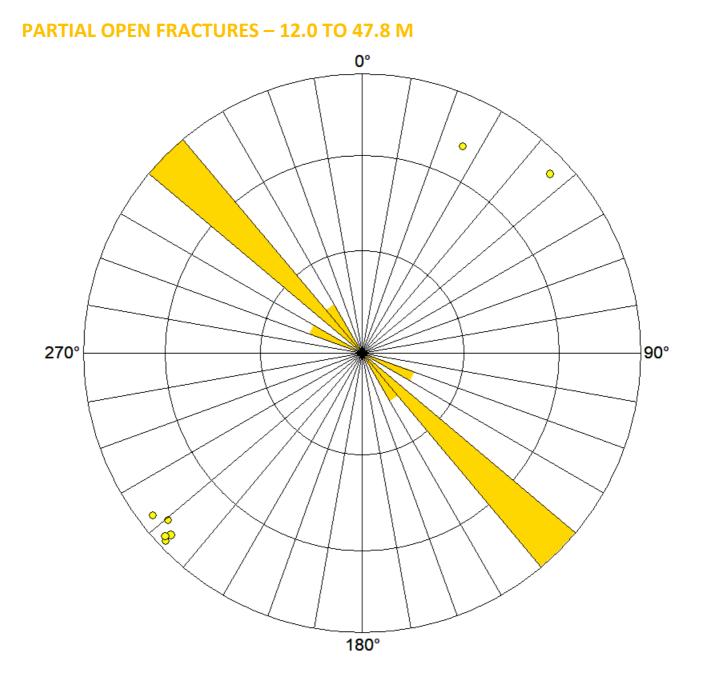
FOLIATIONS - 12.0 TO 47.8 M



	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	99	12.75	302.06	32.06 - 212.06

Foliations: Scattered dip azimuth directions with a broad preference in the WNW dip azimuth direction

Page 2 of 5

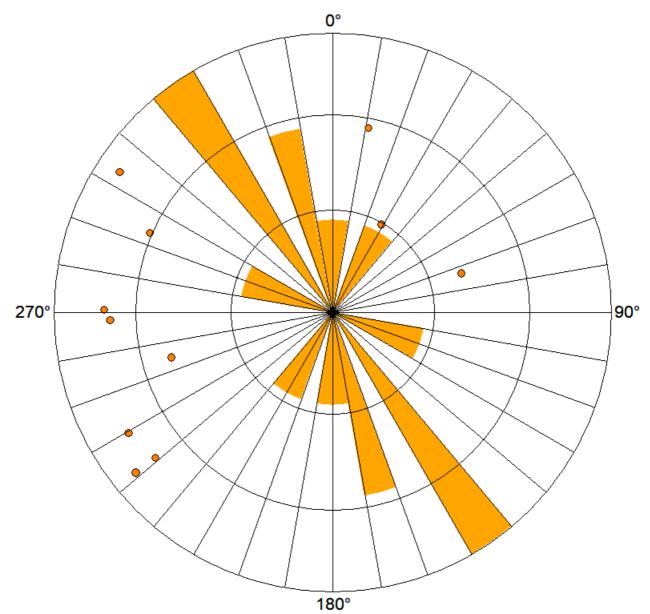


	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	7	89.44	45.31	135.31 - 315.31

Partial Open Fractures: Preferred SE to NW strike direction (caution: small number of picks)

Page 3 of 5

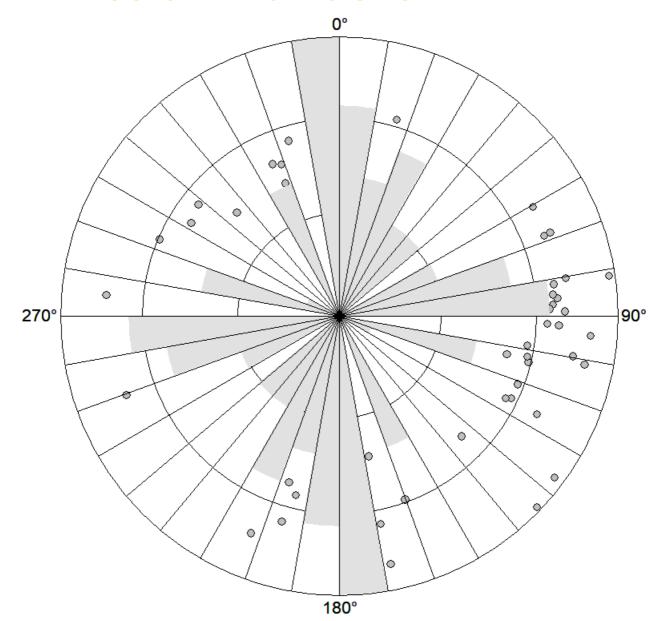
CLOSED FRACTURES – 12.0 TO 47.8 M



	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	11	71.21	78.34	168.34 - 348.34

Open Fractures: Scattered strike directions with a preference in the SE to NW strike direction

Page 4 of 5



HEALED FRACTURES AND VEINS - 12.0 TO 47.8 M

	Counts	Dip [deg]	Azimuth [deg]	Strike [deg]
Mean	52	71.37	287.82	17.82 - 197.82

Healed Fractures and Veins: Scattered strike directions

Page 5 of 5

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C	Ep	irc	C
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OPTV & BHTV LOG

BHUA_19

WELL FIELD LOCATION UWI COUNTRY	SV013	RDEKIN	BIT SIZE 9 CASING WEIGHT S	8 6mm 9TEEL 01mm 2m	DATE CLIENT REP ENGINEER EASTING NORTHING	31/08/2023 TIM HARDIGAN JRT 628183 5174292		
	TELEVIE	WER LOG	S	C	OMMENTS			
GAMMA	Televiewer Gamma R	ay INC	Borehole Inclination (0 deg = Vertical Down)					
OPTV	OPTV RGB Image	AZIM	Borehole Magnetic Azimuth	All image log data is orier declination correction is 8		h. The applied magnetic		
AMP	BHTV Amplitude	HGDELTA	Potential Field	OTV image affected by water quality in borehole				
π	BHTV Travel Time	TMAG	Televiewer Magnetic Field					
		The	following interpretations are opinio	ns based upon inferences from bore	ehole logs, Epiroc Ki	netic Logging Services		

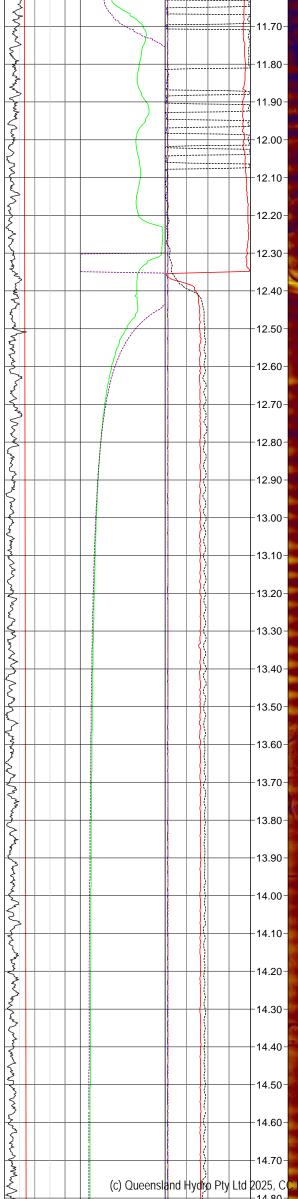
IMPORTANT NOTE

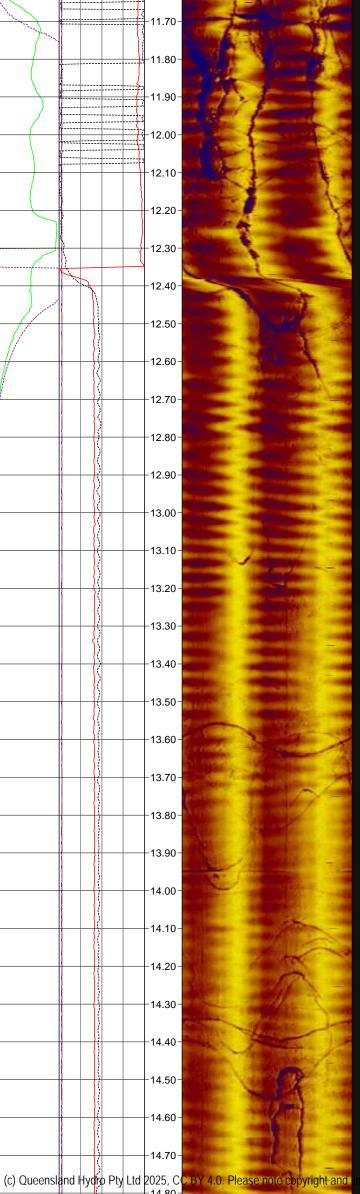
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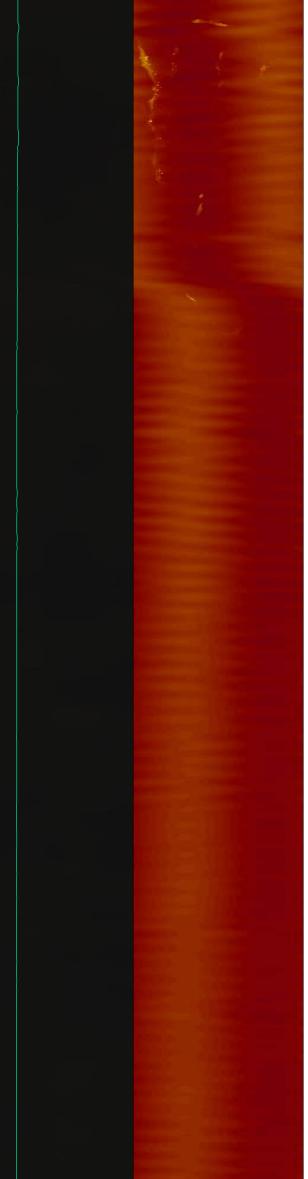
cannot and does not guarantee the correctness or accuracy of any interpretations. Therefore, Epiroc Kinetic Logging Services

shall not be liable or responsible for any loss, damage, cost or expense incurred or sustained by anyone resulting from any interpretations.

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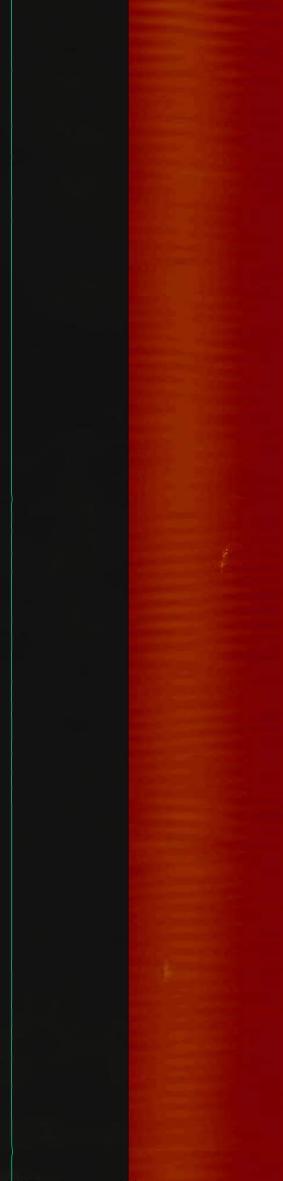






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) API 250	40 uT 160	AZIM - OPTV															
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		AZIM - BHTV 0 deg 40	1m:10m	0	90	180°	270° 0°			CALIPER	2		0	90	180°	270°	
) API 250	40 uT 160	0 360	47.00	0°	90°	100%	270° 0°	50		MM		200	0°	90°	100%	070%	(
			-47.70-			lion											
			-47.60-														
			-47.50-			-											
			-47.40-		-	-	37										
			-47.30-			-											
			-47.20-														
			-47.10-														
			-47.00-														
			-46.90-			-											
			-46.80-			711000											



VERTICALITY ANALYSIS

BHUA_19

COMPANY WELL					IN STATE COUNT	QLD I RY AUSTR	ALIA		
DN: EUNGELLA PIONEER-BURDEKIN QLD BHUA_19 VY: SMEC	PERM LOG N	ANENT DAT ANENT DAT IEASURED F ING MEASUF	UM ELEVATIC	ON GL	ELEVA KB DF GL	DF GL			
LOCATION: E FIELD: PIONE STATE: QLD WELL: BHUA COMPANY: SN	LICENSE	SECTION	TOWNSHIP	IP RANGE MAG DECL. 8.12deg		2.			
DATE	31-08-2023			F	ECORDED BY	JRT			
TIME	10-50			V	VITNESSED BY				
RUN NUMBER	1			L	OGGING UNIT	V013			
DEPTH-DRILLER	48.00m			F					
DEPTH-LOGGER	48.50m			Т	OOL TYPE	9057A			
BIT SIZE	96mm			Т	OOL SERIAL NO.	361			
CASING TYPE	STEEL			E	ASTING	657634			
CASING OD	101mm			Ν	IORTHING	7666429			
CASING BOTTOM	11.0m			S	AMPLE INT.	.01m			
FLUID TYPE	0			L	OG DIRECTION	U			
TRUCK CAL NO.	0.09778			F	EET OR METER	М			
WATER LEVEL	9.0m			S	OURCE TYPE		SOURCE ID		

DEVIATION LIST

MNEMONIC DESCRIPTORS

SANGB SAMPLE ANGLE BEARING SANG SAMPLE SLANT ANGLE (0 DEG = VERTICAL DOWN) TVD TRUE VERTICAL DEPTH EAST BOREHOLE EAST DEVIATION

NORTH CDIST CANGB BOREHOLE NORTH DEVIATION DEVIATED CLOSURE DISTANCE DEVIATED CLOSURE ANGLE BEARING

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	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
1.00	308.365	0.322274	-0.00128338	0.00205714	0.00242464	328.041	0.99999
2.00	329.222	0.293481	-0.00372499	0.00649056	0.00748351	330.148	1.99998
3.00	291.834	0.415694	-0.00927322	0.00930162	0.0131344	315.088	2.99996
4.00	292.514	0.54133	-0.0170411	0.0121581	0.0209336	305.506	3.99992
5.00	293.025	0.692607	-0.0270666	0.0159136	0.0313982	300.453	4.99986
6.00	298.259	0.856862	-0.0389084	0.0223554	0.0448735	299.88	5.99977
7.00	318.905	0.987119	-0.0511651	0.0327925	0.0607718	302.656	6.99964
8.00	323.957	1.11294	-0.0623776	0.0472647	0.0782619	307.152	7.99947
9.00	316.268	1.24526	-0.0748312	0.0629603	0.0977942	310.076	8.99927
10.00	331.41	1.38743	-0.0864298	0.083316	0.120049	313.949	9.99899
11.00	336.88	1.3138	-0.0962692	0.105461	0.142792	317.609	10.9987
12.00	331.922	1.44611	-0.104029	0.128721	0.165503	321.056	11.9984
13.00	161.246	1.47472	-0.0978121	0.118795	0.153881	320.533	12.9981
14.00	160.544	1.49891	-0.0891707	0.0942285	0.129732	316.58	13.9977
15.00	159.439	1.50887	-0.08026	0.0695998	0.106235	310.931	14.9974
16.00	159.325	1.47427	-0.0711702	0.0453096	0.0843692	302.482	15.997
17.00	158.701	1.49547	-0.0618339	0.0210877	0.0653309	288.831	16.9967
18.00	(c) QueenstandsHydro	Pty Ltd 12002591CC B	Y 4.0. Blease prote co	pyrightoorddimeitation	n of liability postices on	attachestorver page.	17.9964

19.00	157.343	1.46387	-0.0422622	-0.0268092	0.0500482	237.611	18.996
20.00	156.619	1.46062	-0.0321981	-0.0504291	0.0598315	212.558	19.9957
21.00	155.576	1.4526	-0.0219662	-0.0735812	0.07679	196.622	20.9954
22.00	154.983	1.4441	-0.0116332	-0.0964291	0.0971283	186.879	21.9951
23.00	155.503	1.45638	-0.000872042	-0.119507	0.11951	180.418	22.9948
24.00	155.947	1.51224	0.00999497	-0.143152	0.1435	176.006	23.9944
25.00	154.939	1.51226	0.0210496	-0.167071	0.168391	172.819	24.9941
26.00	155.116	1.5137	0.0321758	-0.19101	0.193701	170.438	25.9937
27.00	154.255	1.50028	0.043352	-0.214674	0.219008	168.583	26.9934
28.00	154.187	1.50086	0.0548132	-0.23831	0.244532	167.047	27.993
29.00	153.895	1.5035	0.0662151	-0.261903	0.270143	165.812	28.9927
30.00	155.616	1.5224	0.0773453	-0.285971	0.296246	164.866	29.9923
31.00	155.091	1.51207	0.088334	-0.310048	0.322386	164.098	30.992
32.00	154.822	1.50921	0.0994198	-0.333959	0.348443	163.422	31.9916
33.00	155.723	1.51489	0.110422	-0.358153	0.374789	162.865	32.9913
34.00	155.44	1.51632	0.121367	-0.382188	0.400996	162.382	33.9909
35.00	155.136	1.51063	0.132152	-0.406055	0.427019	161.972	34.9906
36.00	156.028	1.51204	0.142885	-0.430085	0.453199	161.622	35.9902
37.00	155.707	1.50943	0.153625	-0.454223	0.479499	161.314	36.9899
38.00	155.333	1.50234	0.164478	-0.478058	0.505561	161.014	37.9896
39.00	155.406	1.5006	0.175333	-0.501838	0.531585	160.741	38.9892
40.00	155.34	1.49655	0.186277	-0.52557	0.557605	160.484	39.9889
41.00	154.415	1.49598	0.197476	-0.549128	0.583556	160.221	40.9885
42.00	154.807	1.48894	0.208653	-0.572527	0.609363	159.976	41.9882
43.00	154.798	1.49669	0.219808	-0.596181	0.635411	159.761	42.9879
44.00	154.165	1.49701	0.231018	-0.619783	0.661438	159.558	43.9875
45.00	153.75	1.49828	0.242364	-0.643319	0.687459	159.357	44.9872
46.00	154.454	1.50721	0.253573	-0.666997	0.713571	159.185	45.9868
47.00	153.707	1.51618	0.264887	-0.690809	0.739853	159.021	46.9865
48.00	153.168	1.51852	0.276771	-0.714548	0.766277	158.827	47.9861

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.
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Depth 1m:500m	TVD axis	SANG				SANGB				EAST			NORTH				TVD			CDIST				CANGB				
		0	DE	ΞG	40	0	DE	ĒG	360	-40	[m]]	40	-40	[m]		40	0		300	0	[1	m]	40	0	de	eg	360
0.00	2.00					-			T																			3
	4.00								1																			1
5.00	6.00								1																			+†-
	8.00																											
10.00	10.00								्र															_				$\downarrow \downarrow$
	12.00								ځ																			
	14.00																											
15.00	16.00																											\top
	18.00																											
20.00	20.00																										+	
	22.00																											
25.00	24.00																											
25.00	26.00																											
	28.00																											
30.00	30.00																										_	+
	32.00																											
35.00	34.00																											
	36.00																											
	38.00																											
40.00	40.00																											+
	42.00																											
45.00	44.00																											
	46.00																											
1m:500m	48.00	0	DE	ĒG	40	0	DE	ĒG	360	-40	[m]	40	-40	[m]		40	0		300	0	[1	m]	40	0	de	eg	360
Depth	TVD axis	SANG			SANGB				EAST			NORTH			TVD				CDIST				CANGB					

NOTES ON VERTICALITY PLOTS

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DEVIATION PLOT

