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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 1 of 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling					Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
ADV	VE		0	860.33				ML	Clayey SILT: orange, clay is low to medium plasticity.			RESIDUAL SOIL
			1									
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			8.00									
WB	E		16/10/2024 02:00, VWPd						(w<PL)	St		
			16/10/2024 01:00, VWPd									
F							CL-CI	Sandy CLAY: low to medium plasticity, brown-orange, sand is fine to coarse grained.		VSt-H		



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Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

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Inclination: -88° Direction: 145°

Sheet 2 of 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB	F		10					CL-CI	Sandy CLAY: low to medium plasticity, brown-orange, sand is fine to coarse grained.	(w<PL)	VSt-H		RESIDUAL SOIL
	F-H		11	11.20 849.13				SW	Gravelly SAND: fine to coarse grained, brown-orange and dark grey, gravel is fine to medium grained; with low to medium plasticity clay.	(M)	D-VD		
	H			11.78									
			12						Continued as Cored Borehole				
			13										
			14										
			15										
			16										
			17										
			18										
			19										
			20										
Comments										Checked	GEM		
										Date	1/7/2024		

PPPHES LIB REV V.GLB Log IS AU BOREHOLE 3 BHT-02 241009.GPJ <<DrawingFile>> 21/10/2024 03:26 10.03.00.09 Dugel Lab and In Situ Tool - DGD | Lib: WSP 5.072 2023-10-30 Pjt: WSP 5.04.1 2023-06-14



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 3 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
				10									
				11									
				11.78			Continuation from non-cored borehole						
				848.53			NO CORE 0.03m (11.78-11.81)	FR					
		95	79	12			LAMPROPHYRE: fine grained, black, dark grey, porphyritic, white phenocrysts, pale alteration halo (yellow and/or green) around defects/healed defects, highly altered.			12.13: J, 10°, CN, PR, RF 12.15: J, 45°, CN, UN, RF 12.16: J, 10°, CN, PR, RF 12.25-12.31: Jx3, 45°, pl gy-gr mi CT, UN, <1 mm, 10 mm spacing 12.47-12.52: Js, 50°, pl gy-gr mi VN, PR, 5 mm spacing			
				13			paler halo around defects (veins) and healed joints			13.00: J, 40°, CN, PR, RF 13.01: J, 0°, CN, PR, RF 13.10-13.27: Js, 45°, pl gy-gr CT, PR, <3 mm, 20 mm spacing 12.86-14.21: Js, 50 - 70°, CT, IR, <2 mm, 20 mm spacing 13.74: J, 35°, CN, ST, RF 14.22: J, 40°, CN, ST, RF 14.82: J, 60°, CN, ST, RF 15.10-15.25: PLT(A) Is50 = 11.0MPa (M); PLT(D) Is50 = 16.0MPa (M)			
		100	100	14									
				15									
				16									
				17									
		100	99	18									
				19						17.11: J, 30°, CN, IR, RF 17.40: J, 25°, CN, PR, RF 17.70: J, 15°, CN, UN, RF 18.13: J, 30°, CN, PR, RF 18.16: J, 70°, CN, UN, RF 18.19: J, 10°, CN, PR, RF 18.50: J, 10°, CN, ST, RF			
				18.60									
				841.74			ALTERED GRANITE: fine to medium grained, black, dark grey and white, crystalline, rare coarse grained granite inclusions, pale alteration halo (yellow and/or green) around defects/healed defects, highly altered.			19.14: J, 20°, CN, UN, RF			
		100	97	20						19.86: J, 40°, CN, PR, RF			
Comments										Checked GEM		Date 19/10/2024	



BOREHOLE: BHT-02

Project:	Pioneer Burdekin PHES	Position:	Upper reservoir	Sheet	4 OF 24
Location:	Netherdale/Dalrymple Heights	Coords:	657034.3 m E 7666286.3 m N MGA2020-55	Date Started:	13/11/2023
Client:	Queensland Hydro	Surface RL:	860.3 m AHD	Date Completed:	30/11/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Desco 7000	Logged:	JRC/DD/NLP
		Inclination:	-88° Direction: 145°		

Drilling					Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)
									VL J M H VH EH	2 5 10 20 30 40 50 60 70 80 90 100		10 30 100 300 1000 3000
HQ		100	97	20			ALTERED GRANITE: fine to medium grained, black, dark grey and white, crystalline, rare coarse grained granite inclusions, pale alteration halo (yellow and/or green) around defects/healed defects, highly altered.	FR			20.34: J, 20°, CN, PR, RF	
				21			21.19 - 21.41m: quartz rich granodiorite				21.00-22.00: core fragmented due to re-drilling over core lost from barrel on previous run	
				22							21.36: J, 30°, CN, UN, RF	
				23							21.78: J, 10°, CN, ST, RF	
				24							21.98: J, 0°, CN, UN, RF	
		100	74	25							22.82: J, 30°, CN, ST, RF	
				26								
				27								
				28								
				29								
				24.65	835.69		LAMPROPHYRE: fine grained, black and dark grey, porphyritic.					
				24.88	835.46							
				25			ALTERED GRANITE: fine to medium grained, black, dark grey and white, crystalline, rare coarse grained granite inclusions, pale alteration halo (yellow and/or green) around defects/healed defects, highly altered.					
		98	96	26								
				27						27.05: J, 10°, CN, PR, RF		
				28						27.05: J, 40°, CN, PR, RF		
				29								
		98	95	28.80	831.55		LAMPROPHYRE: fine grained, black, dark grey and pale yellow/green, porphyritic.			28.44: J, 20°, CN, PR, RF		
				29						28.46: J, 60°, SN, UN, RF		
				30						28.67: J, 0°, CN, UN, RF		
										28.79-28.91: Js, 55 - 75°, gr mi SN, UN		
										28.94: J, 25°, CN, PR, RF		
										29.01: J, 10°, CN, PR, RF		
										29.13: J, 15°, CN, PR, RF		
										29.87: J, 55°, CN, PR, RF		
Comments												
											Checked	GEM
											Date	19/10/2024



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 5 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
HQ		98	95	30	830.24			FR		29.88: J, 70°, CN, UN, RF			
					830.06		NO CORE 0.05m (30.24-30.29)	FR		29.89: J, 20°, CN, PR, RF			
							LAMPROPHYRE: fine grained, black, dark grey and pale yellow/green, porphyritic, slightly altered.			30.38: J, 40°, CN, PR, RF			
				31									
		100	100							31.43: J, 40°, CN, PR, RF			
				32	828.22					31.89: J, 80°, wh mi CT, PR, RF			
					828.13		ALTERED GRANITE: fine to medium grained, black and dark grey, crystalline.			32.02: J, 45°, CN, PR, RF			
				33						32.52: J, 35°, CN, UN, RF			
				34									
		100	100							33.85: J, 40°, CN, ST, RF			
HQ				35									
				36						35.30: J, 30°, CN, ST, RF			
				37									
				38									
		98	98										
				39									
				40									
					820.87		LAMPROPHYRE: fine grained, black, dark grey and dark green, porphyritic.			39.48: J, 30°, CN, PR, RF			
		100	100										
					820.41		NO CORE 0.05m (36.29-36.34)						
HQ				37			ALTERED GRANITE: fine to medium grained, black and dark grey, crystalline.						
				38									
				39									
				40									
					824.01								
					824.29								
HQ													

Comments

Checked GEM
Date 19/10/2024

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling

Inclination: -88° Direction: 145°

Sheet 6 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drill Rig: Desco 7000

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
									VL J M H VH EH	2 3 5 8 10 15 20 30 40 50 60 70 80 90 100 150 200 300 400 500 600 700 800 900 1000 1500 2000 3000			
HQ			100	100	40		LAMPROPHYRE: fine grained, black, dark grey and dark green, porphyritic.	FR		40.33: J, 20°, CN, PR, RF			
					41					40.77: J, 40°, CN, PR, RF			
					42	42.14 818.21	ALTERED GRANITE: fine to medium grained, black and dark grey, crystalline.			41.50-42.00: PLT(A) Is50 = 11.0MPa (M); PLT(D) Is50 = 13.0MPa (M) 41.50: J, 40°, CN, ST, RF			
					43					42.14: J, 30°, CN, UN, RF			
			100	100	44	43.85 816.50	LAMPROPHYRE: fine grained, black, dark grey and pale yellow, porphyritic.			43.23-43.41: Js, 60 - 90°, gr mi VN, UN 43.59: J, 10°, CN, PR, RF 43.81: J, 20°, CN, PR, RF			
					45					44.15: J, 40°, CN, PR, RF 44.39: J, 10°, CN, ST, RF 43.82-45.06: Js, 40 - 50°, gr and wh mi, 25 mm spacing			
					46					44.91: J, 40°, CN, IR, RF 45.04: J, 15°, CN, IR, RF			
			100	100	47					45.97: J, 30°, CN, PR, RF 46.15: J, 15°, CN, ST, RF			
					48					46.84: J, 20°, CN, UN, RF			
					49	48.30 812.06	ALTERED GRANITE: fine to medium grained, dark grey, black and pale yellow, crystalline.			47.60: J, 30°, CN, IR, RF			
		100	100	50					49.40: J, 50°, CN, PR, RF 49.41: J, 6°, CN, ST, RF 49.69: J, 30°, CN, PR, RF				

Comments

Checked GEM
Date 19/10/2024

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 7 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)		
								VL J M H VH EH	2 - 80 40 200 300		10 30 100 300 1000 3000		
HQ			100	100	50	+	ALTERED GRANITE: fine to medium grained, dark grey, black and pale yellow, crystalline.	FR		50.09: J, 35°, CN, PR, RF			
					51	+				50.44: J, 20°, CN, PR, RF 50.60-50.80: PLT(A) Is50 = 8.0MPa (W); PLT(D) Is50 = 5.6MPa (W) 50.63: J, 20°, CN, ST, RF 50.79: J, 10°, CN, ST, RF			
					52	+							
					52.18	+							
					808.18	+	GRANITE: fine to coarse grained, pale grey, dark grey, white and pale yellow, crystalline, slightly altered inclusion within the dark grey highly altered granite and lamprophyre rock.			52.03: J, 45°, CN, PR, RF			
			100	100	52.76	+							
					807.60	+	LAMPROPHYRE: fine to medium grained, dark grey and black, porphyritic.			52.92: J, 20°, CN, PR, RF			
					53	+				53.25: J, 10°, CN, ST, RF			
					54	+				53.47: J, 90°, CN, PR, RF 53.50: J, 25°, CN, PR, RF 53.61: J, 20°, CN, PR, RF			
					54.00	+							
					806.36	+	MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 600mm thickness; granite is pale grey white, fine to coarse grained, crystalline, massive, up to 500mm thickness; flow and brecciation features observed in both rocks.			54.35: J, 10°, CN, ST, RF 54.45: J, 15°, CN, UN, RF			
			100	94	55	+							
					56	+				55.93-55.96: J, 30°, CN, PR, RF 55.93-55.96: J, 30°, CN, PR, SM 56.00-56.40: PLT(A) Is50 = 9.3MPa (M); PLT(D) Is50 = 11.0MPa (M)			
					57	+				56.93: J, 35°, PR, RF			
					58	+							
			100	100	59	+							
					60	+							
Comments										Checked	GEM		
										Date	19/10/2024		

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 8 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)		
											10	30	100
											300	1000	3000
HQ		100	100	60			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 600mm thickness; granite is pale grey white, fine to coarse grained, crystalline, massive, up to 500mm thickness; flow and brecciation features observed in both rocks.	FR		59.94: J, 40°, CT, ST, RF			
				61						60.90: J, 40°, CN, ST, RF			
		100	72	62						62.10-62.33: J, 80°, CN, UN, RF, ye-br alteration 62.24: J, 0°, CN, IR, RF 62.46: J, 10 - 20°, CN, IR, RF 62.52: J, 40°, CN, PR, RF			
				63						62.76-63.00: Js, 70°, SN, IR, broken core			
				64						63.35: J, 80°, SN, PR, RF 63.57: J, 30°, CN, ST, RF			
		100	98	64.82 795.55			BASALT: fine to medium grained, dark grey and dark green, crystalline, becoming grey at 65.0m.			64.83: J, 10°, CN, ST, SM 64.85: J, 40°, CN, PR, RF			
				66						65.70-66.27: J, 85°, pi wh mi CT, PR, RF 65.87-66.29: Js, 40 - 50°, wh mi CT, IR, RF			
		100	60	67 793.37			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 900mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, massive, up to 700mm thickness; flow and brecciation features observed in both rocks.			66.35: J, 70°, CN, PR, SM 66.38: J, 5°, CN, PR, RF 66.56: J, 60°, CN, PR, SM 66.73: Js x4, 70°, wh mi CT, PR, RF 66.85-67.10: J x10, Fe SN, IR, RF, multiple defects, various angles, rubble by drilling 67.10: J, 50°, CN, PR, SM 67.20: J, 40°, CN, PR, RF 67.62: J, 60°, SN, PR, RF 67.85: J, 30°, wh mi, PR			
				68						68.63: J, 20°, CN, IR, RF			
		100	80	69						69.07: J, 50°, SN, ST, RF 69.17: J, 30°, SN, IR, RF 68.82-69.90: J x5, br or mi SN, IR, RF, multiple defects, various angles, possible MB on hJ 69.51: J, 70°, SN, PR, RF 69.62: J, 70°, SN, PR, RF			
				70									

Comments

Checked GEM
Date 19/10/2024



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 9 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description			Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)
HQ				70			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 900mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, massive, up to 700mm thickness; flow and brecciation features observed in both rocks.	FR		69.92: J, 60°, SN, IR, RF		
		100	80	71	70.05-70.10: J, 90°, Fe SN, IR, RF							
					70.10: J, 10°, SN, IR, RF							
					70.40: J, 50°, wh mi CT, PR, RF							
					70.62: J, 10°, CN, IR, RF							
					70.85: J, 40°, CN, PR, SM							
					71.47: J, 0 - 45°, CN, ST, RF							
					71.86: J, 60°, CN, PR, RF							
					72.05: J, 40°, wh mi CT, IR, RF							
				72.00-72.29: Js, 90°, wh mi CT, PR, RF								
				72.23: J, 30°, wh mi CT, PR, RF								
				73			73.00-73.10: PLT(A) Is50 = 6.7MPa (M)					
							73.38: J, 10°, CN, PR, RF					
				74			73.92: J, 30°, CN, PR, RF, possible HB					
							74.21: J, 30°, CN, PR, RF					
							74.46: J, 0°, CN, PR, RF					
				75			74.90: J, 30°, CN, PR, RF					
							75.03: J, 50°, CN, PR, RF					
				76			75.65: J, 20°, CN, PR, RF					
							75.78: J, 30°, CN, PR, RF					
				77								
				78								
				79								

Comments

Checked GEM

Date 19/10/2024

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 10 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
HQ			100	100	80		MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 900mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, massive, up to 700mm thickness; flow and brecciation features observed in both rocks.	FR		79.95: J, 0°, CN, IR, RF			
					81					80.25: J, 10°, CN, PR, RF			
										80.59: J, 0°, CN, PR, RF			
										81.12: J, 20°, CN, IR, RF			
					82					82.07: J, 40°, CN, PR, RF			
			100	100	83					83.09: J, 20°, CN, IR, RF			
					84					83.94: J, 20°, CN, IR, RF			
					85								
			100	100	86					85.89: J, 0°, CN, IR, SM			
										86.16: J, 0°, CN, PR, SM			
					87								
										87.85: J, 0°, CN, IR, RF			
					88					88.29: J, 10°, CN, PR, RF			
			100	100	89					88.72: J, 10°, CN, PR, SM			
										89.25: J, 10°, CN, ST, RF			
										89.41: J, 30°, CN, ST, RF			
										89.72: J, 0°, CN, PR, RF			
					90					89.90: J, 0°, CN, PR, RF			
Comments										Checked GEM		Date 19/10/2024	



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 11 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
HQ		100	100	90			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 900mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, massive, up to 700mm thickness; flow and brecciation features observed in both rocks.	FR					
				91						91.31: J, 50°, CN, PR, SM			
				92						91.82: J, 10°, CN, PR, RF			
		100	97	92						92.23: J, 30°, CN, ST, RF			
				93						93.20: J, 0°, CN, ST, RF			
				94									
		100	100	95									
				96									
				97						97.36: J, 50°, CN, PR, RF			
		100	100	98						97.55: J, 5°, CN, PR, RF			
				99									
		100	100										
		100	99										
				100									

Comments

Checked GEM
Date 19/10/2024



BOREHOLE: BHT-02

Project:	Pioneer Burdekin PHES	Position:	Upper reservoir	Sheet	12 OF 24
Location:	Netherdale/Dalrymple Heights	Coords:	657034.3 m E 7666286.3 m N MGA2020-55	Date Started:	13/11/2023
Client:	Queensland Hydro	Surface RL:	860.3 m AHD	Date Completed:	30/11/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Desco 7000	Logged:	JRC/DD/NLP
		Inclination:	-88° Direction: 145°		

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)		
				100			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 900mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, massive, up to 700mm thickness; flow and brecciation features observed in both rocks.	FR					
		100	99	101						100.86: J, 0°, CN, IR, RF			
				102						102.00-102.30: PLT(A) Is50 = 12.0MPa (M)			
				103									
		100	100	104						103.73: J, 10°, CN, ST, RF			
										104.43: J, 10°, CN, ST, RF			
				105	104.76 755.63		LAMPROPHYRE: fine to medium grained, dark grey, black, dark green and pale yellow, porphyritic, unorientated phenocrysts, slightly altered.			104.78: J, 70°, CN, IR, RF			
				106									
		100	100	107						106.97: J, 0°, CN, PR, RF			
										107.34: J, 30°, CN, PR, RF			
										107.57: J, 0°, CN, PR, RF			
				108						107.79: J, 50°, CN, ST, RF			
							slightly altered green, possibly about sub-vertical vein						
		100	93	109						108.58: J, 40°, CN, PR, RF 108.64: J, 60°, CN, PR, SM 108.66: J, 90°, CN, PR, RF 108.68: J, 20°, CN, PR, RF 108.85: J, 10°, CN, PR, RF 109.10: J, 10°, CN, PR, SM			
				110									

Comments	Checked	GEM
	Date	19/10/2024



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 13 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
								VL ₂ J L M P H H VH EH	■ - UCS 20 30 40 50 60 70 80 90 100 110 120			10 20 30 40 50 60 70 80 90 100 110 120	
HQ		100	93	110			LAMPROPHYRE: fine to medium grained, dark grey, black, dark green and pale yellow, porphyritic, unorientated phenocrysts, slightly altered.	FR					
				111						110.88: J, 20°, CN, PR, RF			
				112									
		100	99	113						112.40: J, 20°, CN, PR, RF, possible DB			
				114						113.88: J, 0°, CN, PR, SM, possible DB			
				115						114.25: J, 40°, CN, PR, RF			
				115.07						114.59: J, 30°, CN, PR, RF			
				745.33									
		100	100	116			MIXED LAMPROPHYRE AND GRANITE: pale orange/yellow/green alteration throughout, lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 800mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, up to 700mm thickness; flow and brecciation features observed in both rocks.	SW to FR					
				117									
				118									
		100	100	119						119.22: J, 0 - 20°, CN, PR, RF			
				120									

Comments

Checked GEM
Date 19/10/2024

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 14 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling					Field Material Description				Defect Information				
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
HQ		100	100	120			MIXED LAMPROPHYRE AND GRANITE: pale orange/yellow/green alteration throughout, lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 800mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, up to 700mm thickness; flow and brecciation features observed in both rocks.	SW to FR		120.25-120.60: PLT(A) Is50 = 0.84MPa (M)			
				121						121.21: J, 30°, CN, PR, RF 121.38: J, 40°, pl y l mi, PR			
		100	100	122									
				123									
				124						123.50: J, 10°, CN, PR, SM			
		100	100	125									
				126						125.78: J, 30°, CN, PR, SM			
				127						126.55: J, 60°, CN, PR, RF			
		100	100	128									
				129						128.85: J, 10°, CN, PR, RF			
					130								
Comments												Checked	GEM
												Date	19/10/2024



BOREHOLE: BHT-02

Project:	Pioneer Burdekin PHES	Position:	Upper reservoir	Sheet	15 OF 24
Location:	Netherdale/Dalrymple Heights	Coords:	657034.3 m E 7666286.3 m N MGA2020-55	Date Started:	13/11/2023
Client:	Queensland Hydro	Surface RL:	860.3 m AHD	Date Completed:	30/11/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Desco 7000	Logged:	JRC/DD/NLP
		Inclination:	-88° Direction: 145°		

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
				130			MIXED LAMPROPHYRE AND GRANITE: pale orange/yellow/green alteration throughout, lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 800mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, up to 700mm thickness; flow and brecciation features observed in both rocks.	SW to FR					
		100	100	131									
				132									
				133									
		100	100	134						133.52: J, 10°, CN, ST, RF			
										134.04: J, 20°, CN, PR, SM			
				135						134.69: J, 10°, SN, PR, RF			
										134.85: J, 30°, CN, PR, SM			
										134.96: J, 20°, CN, IR, RF			
				136			dark grey, fine grained matrix with closely spaced pale yellow-green mineral infilled veins and healed joints.			136.16: J, 10°, CN, PR, SM			
										136.46: J, 20°, wh ml, PR			
		100	100	137						137.08: J, 10°, CN, PR, SM			
				138									
				139			vuggy, some cavities up to 5 mm						
		100	100				vuggy, some cavities up to 4 mm						
				140									

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 16 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling					Field Material Description				Defect Information				
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
								SW to FR	VL-2 J M P S H V H-200 EH			10 30 100 300 1000 3000	
HQ			100	100	140			SW to FR		140.26: J, 40°, CN, PR, RF			
					140.68 719.73		ALTERED GRANITE: fine to coarse grained, dark grey, grey and white, crystalline, slightly altered, basalt xenoliths throughout.	FR					
					141								
					142								
					142.32 718.09		LAMPROPHYRE: fine to medium grained, dark grey, porphyritic.						
			100	100	142.74 717.67		GRANITE: fine to coarse grained, dark grey, pale grey, and white, crystalline.						
					143		Lamprophyre xenolith, black to dark grey, porphyritic.						
					143.14 717.28 143.34								
					144					143.60-144.00: PLT(A) Is50 = 8.6MPa (M)			
					144.13 716.29		MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 300mm thickness; granite is pale grey and white, fine to coarse grain, crystalline, up to 200mm thickness; green alteration at top of layer to 144.60m.			144.16: J, 10°, CN, IR, RF			
					145					144.48: J, 30°, SN, PR, RF			
			100	100	146								
					147								
					147.34 713.08		LAMPROPHYRE: fine to medium grained, black and dark grey, porphyritic, some coarse grained white mineral.						
					148								
			100	100	148.47 711.95		MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 500mm thickness; green alteration at base of layer from 153.35m.			148.37: J, 40°, CN, PR, RF			
					149								
										</			



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 17 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
								VL J L M P S H VH EH	■ - UCS			10 30 100 300 1000 3000	
HQ		100	100	150			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 500mm thickness; green alteration at base of layer from 153.35m.	FR					
				151									
		100	100	152									
				153									
				154									
		100	100	154.91 705.51			LAMPROPHYRE: fine to medium grained, dark grey/green, porphyritic, slightly altered, pale yellow.						
				155									
				156									
				157						157.04: J, 50°, CN, PR, RF			
		100	100	158									
				159									
				159.00 701.42			LAMPROPHYRE: fine to medium grained, dark grey, white and pale yellow/green, porphyritic, distinctive paler alteration halos.			159.00-159.30: PLT(L) Is50 = 18.0MPa (M)			
		100	100	160						159.78: J, 30°, CN, PR, RF			

Comments

Checked GEM
Date 19/10/2024

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 18 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
								VL-2 J L M H VH EH	■ - UCS			10 30 100 300 1000 3000	
HQ				160			LAMPROPHYRE: fine to medium grained, dark grey, white and pale yellow/green, porphyritic, distinctive paler alteration halos. random vein intensity	FR					
		100	100	161									
				162			high vein intensity						
				162.90									
				163	697.44		BASALT: fine grained, dark grey, black, massive. LAMPROPHYRE: fine to medium grained, dark grey, white and pale yellow/green, porphyritic.						
		100	96	164			very high vein intensity			163.93: J, 30°, CN, ST, RF			
							high vein intensity			164.23: J, 40°, CN, PR, RF 164.30: J, 80°, CN, PR, RF			
				165						164.76: J, 10°, CN, ST, RF			
				166			moderate to high vein intensity			166.13: J, 0 - 90°, CN, ST, RF			
		100	100	167									
				168									
				169			very high vein intensity						
		100	100	170	170.00								

Comments

Checked GEM
Date 19/10/2024

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BOREHOLE: BHT-02

Project:	Pioneer Burdekin PHES	Position:	Upper reservoir	Sheet	19 OF 24
Location:	Netherdale/Dalrymple Heights	Coords:	657034.3 m E 7666286.3 m N MGA2020-55	Date Started:	13/11/2023
Client:	Queensland Hydro	Surface RL:	860.3 m AHD	Date Completed:	30/11/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Desco 7000	Logged:	JRC/DD/NLP
		Inclination:	-88° Direction: 145°		

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)		
								VL-2 J L M P S H V H-200 EH	■ - UCS		10 30 100 300 1000 3000		
HQ				170	690.43		LAMPROPHYRE: fine to medium grained, grey, white and pale yellow/green, porphyritic, distinctive paler alteration halos, moderately altered.	FR					
			100	100			very high vein intensity, veins up to 20 mm, possibly brecciated, irregular veins/alteration moderate to high vein intensity			171.00-171.30: PLT(A) Is50 = 11.0MPa (M)			
				171									
							high to very high vein intensity						
				172									
			100	100									
				173									
				174									
				175									
			100	100									
				175.27 685.16			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 1,000mm thickness; pale green to pale brown alteration throughout.						
				176									
				177									
			100	100									
				178									
				179									
				180									

Comments	Checked	GEM
	Date	19/10/2024

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 20 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling					Field Material Description				Defect Information				
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
									VL J L M H VH EH	2 - 80 - 40 - 200		10 30 100 300 1000 3000	
HQ		100	100	180			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 1,000mm thickness; pale green to pale brown alteration throughout.	FR					
				181									
		100	100	182									
				183	182.73: J, 0°, pl yl mi CN, UN, RF, possible DB					182.92: J, 10°, pl yl mi CN, UN, VR, possible DB			
				184									
		100	100	185									
				186									
				187									
		100	100	188									
				189									
		100	100	190	188.42: J, 30°, pl gr mi CT, UN, SM, possible DB, possible SL?								
Comments											Checked	GEM	
											Date	19/10/2024	

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BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 21 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling					Field Material Description				Defect Information						
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)			
HQ				190			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 1,000mm thickness; pale green to pale brown alteration throughout.	FR							
		100	100	191											
				192											
				193											
		100	100	194											
				195						195.04: J, 20°, CN, UN, RF, possible DB					
				196											
		100	100	197						197.00-197.30: PLT(A) Is50 = 13.0MPa (M) 197.30: J, 40°, pl yl mi CN, PR, RF 197.47: J, 20°, CN, PR, SM					
				198						197.95: J, 40°, CN, PR, RF					
				199						199.06: J, 80°, pl yl mi, PR					
Comments							irregular inclusion, possibly moderately altered granodiorite xenolith								
										Checked	GEM				
										Date	19/10/2024				

PEPHES LIB - REV:GLB Log IS AU CORED BOREHOLE 3 BHT-02 24 1009.GPJ <<DrawingFile>> 21/10/2024 03:31 10.03.00.09 Datagel Lib and In Situ Tool - DGD Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14



BOREHOLE: BHT-02

Project:	Pioneer Burdekin PHES	Position:	Upper reservoir	Sheet	22 OF 24
Location:	Netherdale/Dalrymple Heights	Coords:	657034.3 m E 7666286.3 m N MGA2020-55	Date Started:	13/11/2023
Client:	Queensland Hydro	Surface RL:	860.3 m AHD	Date Completed:	30/11/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Desco 7000	Logged:	JRC/DD/NLP
		Inclination:	-88° Direction: 145°		

Drilling						Field Material Description				Defect Information		
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)	
								VL J L M H VH EH	2 5 10 20 40 80 160 300		10 30 100 300 1000 3000	
HQ		100	100	200			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 1,000mm thickness; pale green to pale brown alteration throughout.	FR				
				201								
		100	100	202								
				203								
		100	100	204								
				205								
		100	100	206						206.11: J, 10 - 85°, pl y l mi CN, ST, RF 206.12: J, 40°, pl y l mi, PR, incipient		
				207								
				208								
		100	100	209						209.73: J, 20°, CN, PR, RF, possible DB		
				210								

Comments

Checked GEM
Date 19/10/2024

PEPHES LIB - REV B.GLB Log IS AU CORED BOREHOLE 3 BHT-02 24 1009.GPJ <<DrawingFile>> 21/10/2024 03:31 10.03.00.09 Dargal Lab and In Situ Tool - DGD Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14



BOREHOLE: BHT-02

Project:	Pioneer Burdekin PHES	Position:	Upper reservoir	Sheet	23 OF 24
Location:	Netherdale/Dalrymple Heights	Coords:	657034.3 m E 7666286.3 m N MGA2020-55	Date Started:	13/11/2023
Client:	Queensland Hydro	Surface RL:	860.3 m AHD	Date Completed:	30/11/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Desco 7000	Logged:	JRC/DD/NLP
		Inclination:	-88° Direction: 145°		

Drilling						Field Material Description				Defect Information		
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)	
								VL-2 J M H VH-200 EH	■ - UCS		10 30 100 300 1000 3000	
HQ		100	100	210			MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 1,000mm thickness; pale green to pale brown alteration throughout.	FR		211.50-211.95: PLT(A) Is50 = 13.0MPa (M); PLT(D) Is50 = 12.0MPa (M) 211.93: J, 30°, CN, UN, SM 213.24: J, 10°, pl yl-gr mi CN, UN, RF		
				211								
		100	100	212								
				213								
				214								
		100	100	215								
				216								
				217								
		100	100	218								
				219								
				218.18	642.28		LAMPROPHYRE: fine to medium grained, black and dark green, porphyritic, pale yellow/green alteration halos, slightly altered.					
				220								

Comments	Checked	GEM
	Date	19/10/2024

PEPHES LIB - REV B.GLB Log IS AU CORED BOREHOLE 3 BHT-02 24 1009.GPJ <<DrawingFile>> 21/10/2024 03:31 10.03.00.09 Datagel Lib and In Situ Tool - DGD Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14



BOREHOLE: BHT-02

Project: Pioneer Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper reservoir

Coords: 657034.3 m E 7666286.3 m N MGA2020-55

Surface RL: 860.3 m AHD

Contractor: Twin Hills Engineering & Drilling Drill Rig: Desco 7000

Inclination: -88° Direction: 145°

Sheet 24 OF 24

Date Started: 13/11/2023

Date Completed: 30/11/2023

Logged: JRC/DD/NLP

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)	
								VL-2 J L M P S H V H-200 EH	■ - UCS			10 30 100 300 1000 3000	
HQ		100	100	220			LAMPROPHYRE: fine to medium grained, black and dark green, porphyritic, pale yellow/green alteration halos, slightly altered.	FR					
				221	221.11 639.35		MIXED LAMPROPHYRE AND HIGHLY ALTERED GRANITE: lamprophyre is black to dark grey, fine to medium grained, porphyritic, massive, up to 500mm thickness; granite is pale grey and white, fine to coarse grained, crystalline, up to 1,000mm thickness; pale green to pale brown alteration throughout.						
				222	222.28 638.18		Hole Terminated at 222.28 m Target depth. Vibrating Wire Piezometers Installed.						
				223									
				224									
				225									
				226									
				227									
				228									
				229									
				230									
Comments										Checked	GEM		
										Date	19/10/2024		

PEPHES LIB - REV:GLB Log IS AU CORED BOREHOLE 3 BHT-02 24 1009.GPJ <<DrawingFile>> 21/10/2024 03:31 10.03.00.09 Datagel Lib and In Situ Tool - DGD Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	12.04				hJ		25		pl gy-gr mi		PR						
BHT-02	12.11				hJ		30		pl gy-gr mi		PR						
BHT-02	12.11				hJ		10		pl gy-gr mi		PR						
BHT-02	12.13				hJ				pl gy-gr mi		PR						
BHT-02	12.13				J		10			CN	PR	RF					
BHT-02	12.14				hJ		80		pl gy-gr mi		ST						
BHT-02	12.15				J		45			CN	UN	RF					
BHT-02	12.16				J		10			CN	PR	RF					
BHT-02	12.19				hJ		55		or-br mi		UN						
BHT-02	12.24				hJ		10		pl gy-gr mi		PR						
BHT-02	12.25	12.31			J	x3	45		pl gy-gr mi	CT	UN		<	1			10 mm spacing
BHT-02	12.32				hJ		30		pl gy-gr mi		PR						
BHT-02	12.35				hJ		20		pl gy-gr mi		PR						
BHT-02	12.42				hJ		25		pl gy-gr mi		PR						
BHT-02	12.44				hJ		40		pl gy-gr mi		PR						
BHT-02	12.47	12.52			Js		50		pl gy-gr mi	VN	PR						5 mm spacing
BHT-02	12.51				hJ		50		pl gy-gr mi		PR						
BHT-02	12.56				hJ		35		pl gy-gr mi		PR						
BHT-02	12.65				hJ		25		pl gy-gr mi		PR						
BHT-02	12.70				V		80		pl gy-gr mi		PR			2			
BHT-02	12.86	14.21			Js		50	70		CT	IR		<	2			20 mm spacing
BHT-02	13.00				J		40			CN	PR	RF					
BHT-02	13.01				J		0			CN	PR	RF					
BHT-02	13.10	13.27			Js		45		pl gy-gr	CT	PR		<	3			20 mm spacing
BHT-02	13.37				hJ		60		pl gy-gr mi		ST						
BHT-02	13.48				hJ		60		pl gy-gr mi		UN						
BHT-02	13.50				hJ		60		pl gy-gr mi		UN						
BHT-02	13.74				J		35			CN	ST	RF					
BHT-02	14.00				hJ		40		pl gy-gr mi		PR						
BHT-02	14.14				hJ		30		pl gy-gr mi		PR						
BHT-02	14.22				J		40			CN	ST	RF					
BHT-02	14.35				hJ		40		pl yl mi		PR						
BHT-02	14.37				V		40		pl gy-gr mi		PR			3			
BHT-02	14.41				V		50		pl gy-gr mi		PR			3			
BHT-02	14.50				hJ		90		pl gy-gr mi		PR						
BHT-02	14.59				hJ		85		pl gy-gr mi		UN						
BHT-02	14.61				hJ		30		pl gy-gr mi		PR						
BHT-02	14.62				hJ		80				UN						
BHT-02	14.68				V		65		pl gy-gr mi		PR			3			
BHT-02	14.72				hJ				pl gy-gr mi		UN						
BHT-02	14.82				J		60			CN	ST	RF					
BHT-02	15.22				V		65		pl gy-gr mi		PR			3			
BHT-02	15.35				hJ		20		pl gy-gr mi		UN						
BHT-02	15.37				hJ		40		pl gy-gr mi		PR						
BHT-02	15.69				V		70		gy-gr mi		UN		<	3			
BHT-02	15.87				hJ		30		gy-gr mi		PR						
BHT-02	15.88				hJ		70		gy-gr mi		PR						
BHT-02	16.22				hJ		50		gy-gr mi		UN						
BHT-02	16.30				V		55		gy-gr mi		UN			2			
BHT-02	16.61				hJ		30		gy-gr mi		ST						
BHT-02	16.65				hJ		20		gy-gr mi		PR						
BHT-02	16.67				hJ		70		gy-gr mi		PR						
BHT-02	16.69				hJ		25		gy-gr mi		PR						
BHT-02	16.71				V		30		gy-gr mi		PR		<	2			
BHT-02	16.78				hJ		30		gy-gr mi		PR						
BHT-02	16.79				hJ		30		gy-gr mi		PR						
BHT-02	17.03				V		50		gy-gr mi		PR		<	3			
BHT-02	17.11				J		30			CN	IR	RF					
BHT-02	17.19				hJ		90				UN						
BHT-02	17.37				hJ		30		gy-gr mi		PR						
BHT-02	17.40				J		25			CN	PR	RF					
BHT-02	17.53				hJ		65		bk mi		PR						rare pyrite
BHT-02	17.56				hJ		70		bk mi		PR						
BHT-02	17.57				hJ		45		wh mi		PR						
BHT-02	17.64				hJ		65		bk mi		PR						rare pyrite
BHT-02	17.70				J		15			CN	UN	RF					
BHT-02	17.75				hJ		75		bk mi		UN						
BHT-02	17.76				hJ				gy-gr mi		PR						
BHT-02	17.79				hJ		45		gr mi		PR						2 mm gr alt halo
BHT-02	17.81				hJ				gy-gr mi		PR						
BHT-02	17.82				hJ				gy-gr mi		PR						
BHT-02	17.84				hJ		55		gy-gr mi		UN						
BHT-02	17.86				V				gy-gr mi		UN		<	3			
BHT-02	17.95				hJ		35		gr mi		UN						
BHT-02	18.08				hJ		30		gr mi		UN						
BHT-02	18.10				hJ				gr mi		PR						
BHT-02	18.12	18.24			V		70		gr mi		PR			55			
BHT-02	18.13				J		30			CN	PR	RF					
BHT-02	18.16				J		70			CN	UN	RF					

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Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	18.19				J		10			CN	PR	RF					
BHT-02	18.32				hJ		20		gr mi		UN						
BHT-02	18.35				hJ		90		gr mi		UN						
BHT-02	18.39				hJ		20		gr mi		PR						
BHT-02	18.40				hJ		80		gr mi		UN						
BHT-02	18.41				hJ		30		gr mi		UN						
BHT-02	18.47				hJ		55		gr mi		PR						
BHT-02	18.49				hJ		60		wh mi		PR						
BHT-02	18.50				J		10			CN	ST	RF					
BHT-02	18.54				V		60		gr mi		UN			3			
BHT-02	18.55				hJ		60		gr mi		PR						
BHT-02	18.57				hJ		60		gr mi		PR						
BHT-02	18.58				hJ		55		gr mi		ST						
BHT-02	18.64				V		65		gr mi		PR		<	3			
BHT-02	18.71				V		50		gr mi		PR			4			
BHT-02	18.76				V		55		gr mi		PR			2			
BHT-02	18.83				V		40		gr mi		PR			2			
BHT-02	18.89				hJ		40		gr mi		PR						
BHT-02	18.96				hJ		35		gr mi		PR						
BHT-02	19.11				hJ		40		gr mi		PR						
BHT-02	19.14				J		20			CN	UN	RF					
BHT-02	19.20				V		30		gr and wh mi		PR		<	2			
BHT-02	19.22				V		80		gr, wh, and pl gy mi		UN			5			
BHT-02	19.24				V		25		gr mi		PR			3			
BHT-02	19.29				V		20		wh mi		PR			2			
BHT-02	19.59				hJ		40		gr mi		UN						
BHT-02	19.61				V		60		gr mi		PR			2			
BHT-02	19.65				hJ		60		gr mi		UN						
BHT-02	19.86				J		40			CN	PR	RF					
BHT-02	19.87				hJ		15		gr mi		PR						
BHT-02	19.89				hJ		20		gr mi		UN						
BHT-02	19.90				V		15		wh mi		PR			2			
BHT-02	19.91				hJ		30		gr mi		PR						
BHT-02	19.94				hJ		25		gr mi		PR						
BHT-02	19.94				V		25		wh mi		UN			4			
BHT-02	19.96				V		30		wh mi		PR		<	2			
BHT-02	19.97				V		40		wh mi		PR			1			
BHT-02	20.00				hJ		10		gr mi		PR						
BHT-02	20.20				hJ		55		gr mi		PR						
BHT-02	20.24				hJ		70		gr mi		PR						
BHT-02	20.34				J		20			CN	PR	RF					
BHT-02	20.37				hJ		30		gr mi		PR						
BHT-02	20.81				hJ		50		gr mi		PR						
BHT-02	21.33				hJ		40		gr mi		PR						
BHT-02	21.36				J		30			CN	UN	RF					
BHT-02	21.48				hJ				gr mi		PR						
BHT-02	21.55				V		40		gr mi		PR			4			
BHT-02	21.62				V		40		gr mi		IR			4			
BHT-02	21.62				V		55		gr mi		PR			3			
BHT-02	21.71				hJ		60		gr mi		PR						
BHT-02	21.75				hJ		45		gr mi		UN						
BHT-02	21.78				J		10			CN	ST	RF					
BHT-02	21.81				hJ				gr mi		PR						
BHT-02	21.98				J		0			CN	UN	RF					
BHT-02	21.99				hJ		50		gr mi		PR						
BHT-02	22.00				hJ		20		gr mi		PR						
BHT-02	22.01				hJ		35		gr mi		UN						
BHT-02	22.06				hJ		15		gr mi		UN						
BHT-02	22.13				hJ		10		gr mi		PR						
BHT-02	22.34				hJ		65		bk mi		PR						
BHT-02	22.35				hJ		60		bk mi		PR						
BHT-02	22.43				V		70		wh mi		PR	RF		1			
BHT-02	22.48				hJ		50		wh mi		PR						
BHT-02	22.60				hJ		50		gr mi		UN						
BHT-02	22.68				hJ		55		gr mi		PR						
BHT-02	22.75				hJ		60		wh mi		PR						
BHT-02	22.79				V		75		gr and wh mi		UN		<	3			
BHT-02	22.82				J		30			CN	ST	RF					
BHT-02	22.86				hJ		60		wh mi		UN						
BHT-02	22.90				hJ		70		gr mi		PR						
BHT-02	23.02				hJ		75		gr mi		UN						
BHT-02	23.04				hJ		55		gr mi		PR						
BHT-02	23.15				hJ		75		gr mi		PR						
BHT-02	23.28				hJ		80		wh mi		PR						
BHT-02	23.42				hJ		30		bk mi		UN						4 mm wh alt halo
BHT-02	24.02				hJ		60		wh mi		PR						
BHT-02	24.04				hJ		75		wh mi		UN						
BHT-02	24.28				hJ		80		wh mi		PR						
BHT-02	24.47				hJ		90		gr mi		PR						

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Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	24.49				hJ		40		wh mi		PR						
BHT-02	24.52				hJ		35		gr mi		PR						
BHT-02	24.55				hJ		10		gr mi		PR						
BHT-02	24.59				hJ		10		gr mi		ST						
BHT-02	24.60				hJ		40		gr mi		PR						
BHT-02	24.65				V		50		gr mi		PR			8			
BHT-02	24.70	24.88			AZ		30	70	gr mi		UN						5 mm spacing
BHT-02	24.88				V		45		gr mi		PR			2			
BHT-02	24.89				hJ		25		gr mi		PR						
BHT-02	24.92				V		30		gr mi		PR			7			
BHT-02	24.94				hJ		70		wh mi		PR						
BHT-02	24.97				hJ		40		gr mi		PR						
BHT-02	24.98				hJ		40		gr and wh mi		PR						
BHT-02	25.02				hJ		60		gr mi		PR						
BHT-02	25.03				hJ		30		wh mi		PR						
BHT-02	25.06				hJ		75		wh mi		PR						
BHT-02	25.12				hJ		50		gr mi								
BHT-02	25.17				V		40		gr mi		PR		<	2			
BHT-02	25.24				hJ		35		gr mi		PR						
BHT-02	25.25				hJ		70		gr mi		PR						1 mm wh alt halo
BHT-02	25.43				hJ		70		wh mi		UN						
BHT-02	25.61				hJ		50		gr mi		PR						5 mm gr alt halo
BHT-02	25.62				hJ		30		gr mi		PR						
BHT-02	25.63				hJ		35		gr mi		PR						
BHT-02	25.70				hJ		30		gr mi		PR						
BHT-02	25.88				hJ		80		gr mi		PR						
BHT-02	25.89				V		50		gr mi		PR			5			
BHT-02	25.90				hJ		30		gr mi		PR						
BHT-02	25.92				hJ		50		gr and bk mi		UN						
BHT-02	26.12				hJ				gr mi		PR						
BHT-02	26.19				hJ		80		wh mi		UN						
BHT-02	26.29				hJ		65		wh mi		UN						
BHT-02	26.32				hJ		60		wh mi		UN						
BHT-02	26.42				V		55		gr mi		UN			1			1 mm wh alt halo
BHT-02	26.81				hJ		60		wh mi		PR						
BHT-02	26.86				hJ		60		wh mi		PR						
BHT-02	27.05				J		10			CN	PR	RF					
BHT-02	27.05				J		40			CN	PR	RF					
BHT-02	27.39				hJ		25		gr and wh mi		PR						
BHT-02	27.41				hJ		35		gr and wh mi		PR						
BHT-02	27.55				hJ		20		bk and wh mi		PR						
BHT-02	27.56				hJ		30		bk and wh mi		PR						
BHT-02	27.57				hJ		25		bk and wh mi		PR						
BHT-02	27.59				hJ		35				PR						
BHT-02	27.67				hJ		85		bk mi		PR						
BHT-02	27.68				hJ		35		gr mi		PR						
BHT-02	27.93				hJ		35		gr mi		PR						
BHT-02	27.97				hJ				wh mi		UN						
BHT-02	28.04				V		65		gr mi		PR			3			
BHT-02	28.10				hJ		70		wh mi		PR						
BHT-02	28.38				hJ		40		gr mi		PR						
BHT-02	28.39				hJ		20		gr mi		PR						
BHT-02	28.41				hJ		30		gr mi		UN						
BHT-02	28.42				hJ		75		gr mi		UN						
BHT-02	28.43				V		55		gr mi		UN			1			
BHT-02	28.44				J		20			CN	PR	RF					
BHT-02	28.45				V		75		gr mi		PR			4			
BHT-02	28.45				hJ		30		gr mi		PR						
BHT-02	28.46				J		60			SN	UN	RF					
BHT-02	28.48				hJ		35		gr mi		PR						
BHT-02	28.53				hJ		25		gr mi		PR						
BHT-02	28.61				V		80		wh mi		UN	RF		3			
BHT-02	28.63				hJ		80		wh mi		UN						
BHT-02	28.64				hJ		80		gr mi		UN						
BHT-02	28.64				V		50				UN			2			
BHT-02	28.66				V		60		gr mi		UN		<	3			
BHT-02	28.67				J		0			CN	UN	RF					
BHT-02	28.69				hJ		90		gr mi		UN						
BHT-02	28.70				V		75		gr mi		UN		<	2			
BHT-02	28.73				hJ		20		gr mi		PR						
BHT-02	28.77				hJ		45		gr mi		PR						
BHT-02	28.79	28.91			Js		55	75	gr mi	SN	UN						
BHT-02	28.81				hJ		70				UN						
BHT-02	28.82				V		90		gr mi		PR		<	4			
BHT-02	28.89				hJ		55		gr mi		UN						
BHT-02	28.91				V		55		gr mi		PR			2			
BHT-02	28.94				J		25			CN	PR	RF					
BHT-02	28.95				V		50		gr mi		PR			8			
BHT-02	28.99				hJ		40		gr mi		UN						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	29.01				J		10			CN	PR	RF					
BHT-02	29.08				V		60		gr mi		UN		<	3			
BHT-02	29.13				J		15			CN	PR	RF					
BHT-02	29.17				hJ		70		wh mi		UN						
BHT-02	29.23				hJ		45		gr mi		PR						
BHT-02	29.27				hJ		60		gr mi		UN						
BHT-02	29.29				hJ		85		wh mi		PR						
BHT-02	29.35				hJ		90		gr mi		UN						
BHT-02	29.39				hJ		70				PR						
BHT-02	29.43				V		65		gr mi		PR		<	3			
BHT-02	29.50				hJ		80		wh mi		PR						
BHT-02	29.51				hJ		80		gr mi		UN						
BHT-02	29.53				hJ		15		bk mi		PR						
BHT-02	29.65				hJ		50		gr mi		ST						
BHT-02	29.70				hJ		75		gr mi		UN						
BHT-02	29.73				V		60		gr mi		UN		<	9			
BHT-02	29.78				hJ		80		gr mi		UN						
BHT-02	29.81				V		70		gr mi		UN		<	3			
BHT-02	29.84				hJ		75		bk mi		PR						
BHT-02	29.86				V		70		gr mi		UN		<	4			
BHT-02	29.87				J		55			CN	PR	RF					
BHT-02	29.88				J		70			CN	UN	RF					
BHT-02	29.89				J		20			CN	PR	RF					
BHT-02	29.96				hJ		75		gr mi		UN						
BHT-02	30.06				V		90		gr mi		UN		<	4			
BHT-02	30.08				hJ		70		gr mi		UN						
BHT-02	30.10				V		70		gr mi		UN			1			
BHT-02	30.12				hJ		60		gr mi		UN						
BHT-02	30.15				V		80		gr mi		UN		<	2			
BHT-02	30.17				V		70		gr mi		UN		<	3			
BHT-02	30.33				V		30		gr mi		PR			7			
BHT-02	30.38				J		40			CN	PR	RF					
BHT-02	30.45				V		60		gr mi		PR		<	3			
BHT-02	30.64				V		70	90	gr mi		UN		<	3			
BHT-02	30.77				hJ		25		gr mi		UN						
BHT-02	30.81				hJ		25		gr mi		PR						
BHT-02	30.87				hJ		60		gr mi		UN						
BHT-02	30.98				hJ		45		gr mi		UN						
BHT-02	31.03				hJ		60		gr mi		UN						
BHT-02	31.08				V		70		gr mi		UN		<	10			
BHT-02	31.12				V		75		gr mi		UN			2			
BHT-02	31.13				hJ		70		bk mi		PR						
BHT-02	31.18				hJ		70		gr mi		PR						
BHT-02	31.31				hJ		80		gr mi		UN						
BHT-02	31.34				V		85		gr mi		UN			4			
BHT-02	31.43				J		40			CN	PR	RF					
BHT-02	31.48				hJ		5		gr mi		PR						
BHT-02	31.49				hJ		60		bk mi		UN						
BHT-02	31.49				hJ		80		wh mi		PR						
BHT-02	31.50				hJ		60		gr mi		PR						
BHT-02	31.51				hJ		85		gr mi		UN						
BHT-02	31.58				hJ		5		gr mi		PR						
BHT-02	31.64				hJ		10		gr mi		PR						
BHT-02	31.73				V		70		gr mi		PR		<	4			
BHT-02	31.81				hJ		55		gr mi		PR						
BHT-02	31.89				J		80		wh mi	CT	PR	RF					
BHT-02	31.94				hJ		70		gr mi		PR						
BHT-02	32.02				J		45			CN	PR	RF					
BHT-02	32.05				V		80		gr mi		UN		<	6			
BHT-02	32.12				hJ		20		gr mi		UN						
BHT-02	32.13				hJ		75		wh mi		UN						
BHT-02	32.16				V		85		gr mi		UN		<	2			
BHT-02	32.23				hJ		80		gr mi		UN						
BHT-02	32.26				hJ		50		gr mi		PR						
BHT-02	32.42				hJ		40		gr mi		PR						
BHT-02	32.47				hJ		50		gr mi		PR						
BHT-02	32.52				J		35			CN	UN	RF					
BHT-02	32.75				V				gr mi		PR		<	3			
BHT-02	32.81				V		70		gr mi		PR		<	3			
BHT-02	32.83				hJ		45		gr mi		PR						
BHT-02	32.87				hJ		55		wh mi		PR						
BHT-02	32.99				V		50		gr mi		PR			4			
BHT-02	33.08				hJ		65		gr mi		UN						
BHT-02	33.32				hJ		90		gr mi		UN						
BHT-02	33.34				hJ		80		gr mi		UN						
BHT-02	33.36				V		85		gr mi		UN		<	3			
BHT-02	33.57				hJ		85		gr mi		UN						
BHT-02	33.58				hJ		75		gr mi		UN						
BHT-02	33.73				hJ		35		gr mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	33.78				hJ		20		gr mi		PR						
BHT-02	33.80				hJ		40		gr mi		PR						
BHT-02	33.84				hJ		30		gr mi		PR						
BHT-02	33.85				J		40			CN	ST	RF					
BHT-02	33.89				hJ		80		wh mi		PR						
BHT-02	34.11				hJ		30		gr mi		UN						
BHT-02	34.13				hJ		55		gr mi		UN						
BHT-02	34.17				hJ		88		bk mi		UN						
BHT-02	34.27				hJ		35		wh mi		UN						
BHT-02	34.38				V		90		wh mi		IR			2			
BHT-02	34.46				hJ		50		gr and wh mi		UN						
BHT-02	34.51				hJ		40		gr and wh mi		PR						
BHT-02	34.55				hJ		65		gr and wh mi		PR						
BHT-02	34.75				hJ		40		gr mi		PR						
BHT-02	34.76				hJ		40		gr mi		PR						
BHT-02	34.80				hJ		50		gr mi		PR						
BHT-02	35.02				hJ		40		gr mi		PR						
BHT-02	35.05				hJ		65		gr mi		PR						
BHT-02	35.08				V		35		mi		PR			2			
BHT-02	35.09				hJ		45		gr mi		PR						
BHT-02	35.09				hJ		25		wh mi		PR						
BHT-02	35.27				V		65		gr mi		PR			2			
BHT-02	35.30				J		30			CN	ST	RF					
BHT-02	35.32				hJ		35		gr mi		PR						
BHT-02	35.33				hJ		10		gr mi		PR						
BHT-02	35.34				hJ		35		gr mi		PR						
BHT-02	35.38				hJ		65		gr mi		PR						
BHT-02	35.40				hJ		80		wh mi		PR						
BHT-02	35.42				hJ		75		gr mi		UN						
BHT-02	35.45				hJ		75		gr mi		UN						
BHT-02	35.46				hJ		30		gr mi		PR						
BHT-02	35.49				hJ		30		gr mi		PR						
BHT-02	35.54	35.61			V		40		gr mi		UN		<	2			5 mm spacing
BHT-02	35.56				V		70		gr mi		UN			2			
BHT-02	35.82				V		80		gr mi		UN		<	3			
BHT-02	35.87				V		40		gr mi		PR			2			
BHT-02	35.88				V		60		gr mi		PR			2			
BHT-02	35.89				hJ		70		gr mi		PR						
BHT-02	35.91				hJ		65		gr mi		PR						
BHT-02	35.92				hJ		40		gr mi		PR						
BHT-02	36.04				hJ		30		wh mi		PR						
BHT-02	36.16				hJ		30		wh mi		PR						
BHT-02	36.27				hJ		50		gr mi		PR						
BHT-02	36.49				hJ		50		wh mi		UN						
BHT-02	36.65				hJ		80		wh mi		PR						
BHT-02	36.71				hJ		55		gr mi		UN						
BHT-02	36.74				hJ		30		gr mi		PR						
BHT-02	36.82				hJ		40		wh mi		PR						
BHT-02	36.84				hJ		20		gr mi		PR						
BHT-02	36.86				hJ		20		wh mi		PR						
BHT-02	36.89				hJ		30		gr mi		PR						
BHT-02	36.96				hJ		75		gr mi		UN						2 mm wh alt halo
BHT-02	36.99				hJ		70		gr mi		UN						2 mm wh alt halo
BHT-02	37.10				hJ		80		gr mi		UN						1 mm wh alt halo
BHT-02	37.22				hJ		20		gr and wh mi		PR						
BHT-02	37.24				hJ		20		gr mi		PR						
BHT-02	37.25				hJ		50		gr mi		PR						1 mm wh alt halo
BHT-02	37.51				V		80		gr mi		UN			2			3 mm wh alt halo
BHT-02	37.57				hJ		30		gr mi		PR						
BHT-02	37.82				hJ		40		wh mi		PR						
BHT-02	37.88				hJ		30		wh mi		PR						
BHT-02	38.03				hJ		40		wh mi		PR						
BHT-02	38.07				hJ		60		gr mi		UN						
BHT-02	38.10				hJ		60		gr mi		UN						
BHT-02	38.11				hJ		60		gr mi		PR						
BHT-02	38.23				hJ		40		wh mi		PR						
BHT-02	38.27				V		50		gr and wh mi		PR			2			
BHT-02	38.29				V		50		gr and wh mi		PR			2			
BHT-02	38.33				V		45		gr and wh mi		PR			3			
BHT-02	38.37				hJ		50		wh mi		UN						
BHT-02	38.39				hJ		30		gr mi		PR						
BHT-02	38.45				hJ		35		gr mi		UN						
BHT-02	38.76				hJ		60		wh mi		PR						
BHT-02	38.79				hJ		70		wh mi		PR						
BHT-02	38.83				V		60		gr and wh mi		PR		<	4			
BHT-02	38.88				V		80		gr and wh mi		PR		<	4			
BHT-02	38.90				hJ		50		gr mi		PR						
BHT-02	38.97				hJ		50		gr mi		PR						1 mm wh alt halo
BHT-02	39.07				hJ		75		wh mi		PR						



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BHT-02	39.16				hJ		50		wh mi		PR						
BHT-02	39.20				V		50		gr and wh mi		PR			3			
BHT-02	39.24				hJ		70		wh mi		PR						
BHT-02	39.25				V		50		gr and wh mi		PR		<	4			
BHT-02	39.27				V		60		gr mi		UN		<	6			
BHT-02	39.33				hJ		65		wh mi		PR						
BHT-02	39.35				hJ		55		wh mi		PR						
BHT-02	39.36				hJ		75		wh mi		PR						
BHT-02	39.38				hJ		10		wh mi		PR						
BHT-02	39.40				hJ		15		wh mi		PR						
BHT-02	39.41				hJ		90		gr mi		UN						
BHT-02	39.42				hJ		10		wh mi		PR						
BHT-02	39.45				hJ		50		gr mi		UN						
BHT-02	39.48				J		30			CN	PR	RF					
BHT-02	39.55				hJ		65		gr mi		PR						
BHT-02	39.58				hJ		60		gr mi		PR						
BHT-02	39.59				hJ		55		gr mi		UN						
BHT-02	39.61				hJ		45		gr mi		PR						
BHT-02	39.65				hJ		70		bk and wh mi		PR						
BHT-02	39.71				hJ		65		wh mi		PR						
BHT-02	39.78				hJ		70		gr mi		UN						
BHT-02	39.79				hJ		75		gr mi		PR						
BHT-02	39.85				hJ		80		gr mi		UN						
BHT-02	39.92				hJ		65		gr mi		UN						
BHT-02	39.93				hJ		60		gr mi		PR						
BHT-02	39.95				hJ		65		gr mi		UN						
BHT-02	39.96				V		65		gr mi		UN			3			
BHT-02	40.00				hJ		70		wh mi		PR						
BHT-02	40.01				V		60		gr mi		PR			2			
BHT-02	40.08				hJ		30		gr mi		PR						
BHT-02	40.21				hJ		70		gr mi		PR						
BHT-02	40.24				hJ		65		gr mi		UN						
BHT-02	40.26				hJ		80		gr mi		UN						
BHT-02	40.31				hJ		65		gr mi		UN						
BHT-02	40.33				J		20			CN	PR	RF					
BHT-02	40.36				hJ		70		gr mi		UN						
BHT-02	40.39				hJ		55		gr mi		PR						
BHT-02	40.52				hJ		70		gr mi		PR						
BHT-02	40.54				hJ		60		gr mi		PR						
BHT-02	40.56				hJ		60		gr mi		PR						
BHT-02	40.77				J		40			CN	PR	RF					
BHT-02	40.79				V		75		gr mi		UN			10			
BHT-02	40.85				hJ		85		gr mi		UN						
BHT-02	41.11				hJ		50		gr mi		UN						
BHT-02	41.12				hJ		80		wh mi		UN						
BHT-02	41.13				V		20		gr mi		PR			3			
BHT-02	41.23				hJ		50		wh mi		PR						
BHT-02	41.33				V		65		gr mi		UN		<	3			
BHT-02	41.39				hJ		85		wh mi		UN						
BHT-02	41.40				hJ		65		gr mi		UN						
BHT-02	41.44				hJ		75		gr mi		PR						
BHT-02	41.46				hJ		5		wh mi		UN						
BHT-02	41.48				hJ		50		wh mi		UN						
BHT-02	41.50				J		40			CN	ST	RF					
BHT-02	41.51				V		60		wh mi		UN			3			
BHT-02	41.54				hJ		70		gr mi		UN						
BHT-02	41.56				hJ		75		gr mi		PR						
BHT-02	41.60				hJ		20		gr mi		PR						
BHT-02	41.61				hJ		60		gr mi		PR						
BHT-02	41.63				hJ		10		gr mi		PR						
BHT-02	41.65				hJ		70		gr mi		UN						
BHT-02	41.66				hJ		80		bk and wh mi		PR						
BHT-02	41.67				hJ		60		gr mi		UN						
BHT-02	41.67				hJ		65		gr mi		PR						
BHT-02	41.68				hJ		10		gr mi		PR						
BHT-02	41.78				hJ		60		gr mi		UN						
BHT-02	41.79				hJ		70		gr mi		UN						
BHT-02	41.89				hJ		70		gr mi		UN						
BHT-02	41.91				hJ		60		gr mi		UN						
BHT-02	41.95				hJ		40		gr mi		PR						
BHT-02	41.98				hJ		55		gr mi		UN						
BHT-02	42.04				hJ		80		gr mi		UN						
BHT-02	42.09				hJ		80		gr mi		UN						
BHT-02	42.10				hJ		55		gr mi		PR						
BHT-02	42.11				hJ		55		gr mi		PR						
BHT-02	42.13				hJ		45		gr mi		UN						
BHT-02	42.14				J		30			CN	UN	RF					
BHT-02	42.16				hJ		50		wh mi		PR						
BHT-02	42.17				hJ		50		wh mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	42.17				hJ		35		gr mi		PR						
BHT-02	42.49				V		75		gr mi		UN		<	4			
BHT-02	42.60				hJ		50		gr mi		UN						
BHT-02	42.65				hJ		60		gr mi		UN						
BHT-02	42.75				hJ		60		wh mi		PR						
BHT-02	42.82				hJ		40		gr mi		PR						
BHT-02	42.88				hJ		30		gr mi		PR						
BHT-02	43.03				hJ		30		gr mi		PR						
BHT-02	43.06				V		50		gr mi		PR			2			2 mm gr alt halo
BHT-02	43.15				hJ		60		gr mi		PR						
BHT-02	43.17				hJ		70		gr mi		PR						
BHT-02	43.22				V		50		gr mi		PR			2			
BHT-02	43.23	43.41			Js		60	90	gr mi	VN	UN						
BHT-02	43.24				hJ		35		gr mi		PR						
BHT-02	43.42				hJ		45		gr mi		PR						
BHT-02	43.44				hJ		30		gr mi		PR						
BHT-02	43.45				hJ		40		wh mi		PR						
BHT-02	43.48				hJ		35		gr mi		PR						
BHT-02	43.52				hJ		45		gr mi		PR						
BHT-02	43.59				J		10			CN	PR	RF					
BHT-02	43.64				hJ		40		gr mi		PR						
BHT-02	43.65				V		75		gr mi		PR			12			
BHT-02	43.65				hJ		65		gr mi		PR						
BHT-02	43.66				hJ		30		gr mi		PR						
BHT-02	43.69				hJ		65		gr mi		PR						
BHT-02	43.72				hJ		35		gr mi		PR						
BHT-02	43.75				V		80		gr mi		UN		<	2			
BHT-02	43.76				hJ		30		gr mi		PR						
BHT-02	43.81				J		20			CN	PR	RF					
BHT-02	43.82	45.06			Js		40	50	gr and wh mi								25 mm spacing
BHT-02	43.89				hJ		80		gr mi		UN						
BHT-02	43.92				hJ		80		gr mi		UN						
BHT-02	44.04				hJ		90		gr mi		UN						
BHT-02	44.06				hJ		35		gr mi		UN						
BHT-02	44.15				J		40			CN	PR	RF					
BHT-02	44.18				hJ		70		gr mi		UN						
BHT-02	44.37				V		50		gr mi		UN			2			
BHT-02	44.39				J		10			CN	ST	RF					
BHT-02	44.78				V		60		gr and bk mi		UN			4			
BHT-02	44.88				V		50		gr mi		PR			3			
BHT-02	44.91				J		40			CN	IR	RF					
BHT-02	45.04				J		15			CN	IR	RF					
BHT-02	45.44				hJ		40		gr mi		PR						
BHT-02	45.50				hJ		70		gr mi		PR						
BHT-02	45.51				hJ		20		wh mi		PR						
BHT-02	45.54				hJ		35		wh mi		UN						<2 mm black alt halo
BHT-02	45.56				hJ		45		wh mi		UN						
BHT-02	45.68				hJ		65		gr mi		UN						
BHT-02	45.69				V		80		gr mi		UN			20			
BHT-02	45.77				hJ		90		gr mi		PR						
BHT-02	45.81				hJ		30		wh mi		UN						
BHT-02	45.84	46.27			AZ		25	80	gr mi		UN						8 mm spacing
BHT-02	45.97				J		30			CN	PR	RF					
BHT-02	46.15				J		15			CN	ST	RF					
BHT-02	46.18				hJ				wh mi		UN						
BHT-02	46.39				V		85		wh mi		UN		<	2			
BHT-02	46.58				hJ		50		gr mi		UN						
BHT-02	46.61				hJ		20		gr mi		PR						
BHT-02	46.68				hJ		30		gr mi		UN						
BHT-02	46.74				hJ		85		wh mi		UN						
BHT-02	46.77				V		90		gr and bk mi		UN		<	7			
BHT-02	46.84				J		20			CN	UN	RF					
BHT-02	46.95				V		30		gr and bk mi		PR			4			
BHT-02	46.97				hJ		50		gr mi		UN						
BHT-02	46.98				hJ		70		gr mi		PR						
BHT-02	47.08				hJ		40		gr mi		PR						
BHT-02	47.13	47.82			AZ		10	90	gr mi								7 mm spacing
BHT-02	47.39				V		70		wh mi		IR		<	3			
BHT-02	47.60				J		30			CN	IR	RF					
BHT-02	47.64				V		70		gr mi		IR			5			
BHT-02	47.86				hJ		50		gr mi		ST						
BHT-02	47.91				hJ		70		gr mi		UN						
BHT-02	47.94				hJ		70		gr mi		PR						
BHT-02	47.97				hJ		70		gr mi		PR						
BHT-02	48.05				hJ		70		wh mi		PR						
BHT-02	48.06				hJ		55		gr mi		PR						
BHT-02	48.12				hJ		60		gr mi		PR						
BHT-02	48.14				hJ		70		gr mi		PR						
BHT-02	48.21				V		70		gr mi		PR		<	3			



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	48.22				hJ		30		gr mi		PR						
BHT-02	48.23				hJ		60		gr mi		UN						
BHT-02	48.37				V		60		gr mi		PR			27			
BHT-02	48.44				hJ		45		gr mi		ST						
BHT-02	48.46				hJ		65		gr mi		ST						
BHT-02	48.48				hJ		35		gr mi		UN						
BHT-02	48.50				hJ		50		gr mi		PR						
BHT-02	48.52				hJ		30		gr mi		PR						
BHT-02	48.54				hJ		30		gr mi		PR						
BHT-02	48.57				hJ		65		gr mi		UN						
BHT-02	48.59				hJ		75		gr mi		PR						
BHT-02	48.60				V		80		gr mi		PR			3			
BHT-02	48.65				hJ				gr mi		UN						
BHT-02	48.65				hJ		30		gr mi		UN						
BHT-02	48.66				hJ		45		gr mi		UN						
BHT-02	48.68				hJ				gr mi		UN						
BHT-02	48.72				hJ		50		gr mi		UN						
BHT-02	48.74				hJ		50		gr mi		PR						
BHT-02	48.76				hJ		30		gr mi		UN						
BHT-02	48.77				hJ		50		gr mi		PR						
BHT-02	48.78				hJ				gr mi		UN						
BHT-02	48.78				hJ		50		gr mi		UN						
BHT-02	48.79				V		70		gr mi		PR			2			
BHT-02	48.83				hJ		40		gr mi		PR						
BHT-02	48.87				hJ		40		gr mi		PR						
BHT-02	48.89				V		80		gr mi		UN			2			
BHT-02	48.93				hJ		40		gr mi		PR						
BHT-02	48.96				hJ		80		wh mi		PR						
BHT-02	49.04				hJ		40		gr mi		PR						
BHT-02	49.18				hJ		45		gr mi		PR						
BHT-02	49.23				hJ		70		gr and wh mi		PR						
BHT-02	49.27				hJ		50		wh mi		ST						
BHT-02	49.28				hJ		80		wh mi		PR						
BHT-02	49.31				hJ		50		gr mi		PR						
BHT-02	49.35				V		70		wh mi		PR		<	7			
BHT-02	49.39				V		50		gr mi		PR			2			
BHT-02	49.40				J		50			CN	PR	RF					
BHT-02	49.41				J		6			CN	ST	RF					
BHT-02	49.42				hJ		50		gr mi		PR						
BHT-02	49.50				hJ		80		wh mi		PR						
BHT-02	49.51				hJ		40		gr mi		PR						
BHT-02	49.54				hJ		30		gr mi		PR						
BHT-02	49.56				hJ		40		gr mi		PR						
BHT-02	49.57				hJ		50		gr and wh mi		PR						
BHT-02	49.59				hJ		35		gr mi		PR						
BHT-02	49.65				hJ		60		wh mi		UN						
BHT-02	49.69				J		30			CN	PR	RF					
BHT-02	49.71				V				gr mi		UN		<	4			
BHT-02	49.79				V		65		gr and bk mi		UN		<	4			
BHT-02	49.81				hJ		75		gr mi		PR						
BHT-02	49.92				hJ		65		gr and bk mi		PR						
BHT-02	49.94				hJ		65		gr and bk mi		PR						
BHT-02	49.94				hJ				gr and bk mi		PR						
BHT-02	50.03				hJ		10		gr mi		PR						
BHT-02	50.04				hJ		65		gr mi		UN						
BHT-02	50.05				hJ		25		gr mi		PR						
BHT-02	50.07				hJ		45		gr mi		PR						
BHT-02	50.08				hJ		20		gr mi		PR						
BHT-02	50.09				J		35			CN	PR	RF					
BHT-02	50.10				hJ				gr mi		PR						
BHT-02	50.11				hJ		40		gr mi		PR						
BHT-02	50.13				hJ		40		gr mi		PR						
BHT-02	50.13				hJ				gr mi		PR						
BHT-02	50.13				hJ		40		gr mi		PR						
BHT-02	50.15				hJ		30		gr mi		PR						
BHT-02	50.22	51.00			AZ		50	80	gr and wh mi		UN		<	10			10 mm spacing
BHT-02	50.44				J		20			CN	PR	RF					
BHT-02	50.63				J		20			CN	ST	RF					
BHT-02	50.79				J		10			CN	ST	RF					
BHT-02	51.14				hJ		70		gr mi		PR						
BHT-02	51.28				hJ		40		gr mi		PR						
BHT-02	51.33				hJ		30		gr mi		PR						
BHT-02	51.34				hJ		20				PR						
BHT-02	51.36				hJ		30		gr mi		ST						
BHT-02	51.38				hJ		40		wh mi		UN						
BHT-02	51.39				hJ		55		gr mi		UN						
BHT-02	51.51				hJ		50		gr mi		UN						
BHT-02	51.59				hJ		70		gr mi		UN						
BHT-02	51.64				hJ		70		gr mi		UN						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	51.68				hJ				gr mi		PR						
BHT-02	51.69				V		45		gr mi		PR		<	3			
BHT-02	51.71				hJ				gr mi		PR						
BHT-02	51.72				hJ		40		gr mi		UN						
BHT-02	51.73				V		15		gr mi		PR		<	2			
BHT-02	51.82				hJ				gr mi		UN						
BHT-02	51.83				hJ		50		gr mi		UN						
BHT-02	51.84				hJ		70		gr mi		PR						
BHT-02	51.86				hJ		50		gr mi		PR						
BHT-02	51.88				hJ		45		gr mi		PR						
BHT-02	51.92				hJ		80		gr mi		PR						
BHT-02	51.95				hJ		75		gr mi		PR						
BHT-02	51.96				hJ		45		gr mi		PR						
BHT-02	51.97				hJ		40		gr mi		PR						
BHT-02	52.02				V		60		gr mi		PR			2			
BHT-02	52.03				J		45			CN	PR	RF					
BHT-02	52.05				hJ		40		gr mi		UN						
BHT-02	52.07				hJ		45		gr mi		PR						
BHT-02	52.08	52.18			AZ		15	70	gr mi								5 mm spacing
BHT-02	52.27				hJ		75		gr mi		UN						
BHT-02	52.34				hJ		75		gr mi		UN						
BHT-02	52.41				hJ		55		gr mi		UN						
BHT-02	52.58				hJ		70		gr mi		UN						
BHT-02	52.69				hJ		70		gr mi		UN						
BHT-02	52.71				hJ		60		gr mi		PR						
BHT-02	52.72				hJ		70		gr mi		UN						
BHT-02	52.72				hJ		50		gr mi		PR						
BHT-02	52.74				hJ		65		gr mi		PR						
BHT-02	52.78				hJ		65		gr mi		PR						
BHT-02	52.78				hJ		45		gr mi		PR						
BHT-02	52.79				V		55		gr mi		PR		<	2			
BHT-02	52.83				hJ		78		gr mi		PR						
BHT-02	52.84				hJ		70		gr mi		PR						
BHT-02	52.85				hJ		20		gr mi		PR						
BHT-02	52.85				hJ		20		gr mi		PR						
BHT-02	52.87				hJ		70		gr mi		PR						
BHT-02	52.92				J		20			CN	PR	RF					
BHT-02	52.95				hJ		35		wh mi		UN						
BHT-02	52.99				hJ				gr mi		ST						
BHT-02	53.05				hJ		75		gr mi		ST						
BHT-02	53.12				hJ		75		wh mi		PR						
BHT-02	53.18				V		60		gr mi		UN			2			
BHT-02	53.19				hJ		15		wh mi		PR						
BHT-02	53.21				hJ		65		gr mi		UN						
BHT-02	53.22				hJ		20		wh mi		PR						
BHT-02	53.25				J		10			CN	ST	RF					
BHT-02	53.32				V		70		wh mi		PR		<	2			
BHT-02	53.33				hJ		55		gr mi		UN						
BHT-02	53.39				hJ		30		wh mi		UN						
BHT-02	53.42				hJ		70		gr mi		PR						
BHT-02	53.45				hJ		70		gr mi		UN						
BHT-02	53.47				J		90			CN	PR	RF					
BHT-02	53.50				J		25			CN	PR	RF					
BHT-02	53.52				hJ				gr mi		IR						
BHT-02	53.53				hJ		70		wh mi		PR						
BHT-02	53.54				hJ		70		gr mi		PR						
BHT-02	53.54				hJ		70		gr mi		UN						
BHT-02	53.55				hJ		10		gr mi		UN						
BHT-02	53.57				hJ		45		gr mi		PR						
BHT-02	53.58				hJ		80				PR	RF					
BHT-02	53.59				hJ		30		gr mi		CU						
BHT-02	53.61				J		20			CN	PR	RF					
BHT-02	53.62				hJ		60		gr mi		PR						
BHT-02	53.65				hJ		75		gr mi		UN						
BHT-02	53.69				hJ		60		gr mi		PR						
BHT-02	53.74				hJ		40		gr mi		PR						
BHT-02	53.75				hJ		50		gr mi		UN						
BHT-02	53.76				hJ		60		gr mi		UN						
BHT-02	53.84				hJ		60		gr mi		PR						
BHT-02	53.89				hJ		75		gr mi		UN						
BHT-02	53.93				hJ		65		gr mi		UN						
BHT-02	53.96				hJ		50		gr mi		PR						
BHT-02	53.98				hJ		70		gr mi		PR						
BHT-02	53.99				hJ		40		gr mi		PR						
BHT-02	54.03				hJ		35		gr mi		PR						
BHT-02	54.03				hJ		75		gr mi		PR						
BHT-02	54.06				hJ		10		gr mi		ST						
BHT-02	54.28				hJ		60		wh mi		IR						
BHT-02	54.30				hJ		45		wh mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	54.32				hJ		70		wh mi		PR						
BHT-02	54.33				hJ		20		gr and wh mi		PR						
BHT-02	54.35				J		10			CN	ST	RF					
BHT-02	54.35				hJ		70		wh mi		PR						
BHT-02	54.36				hJ		75		wh mi		PR						
BHT-02	54.45				J		15			CN	UN	RF					
BHT-02	54.49				hJ		90		gr mi		PR						
BHT-02	54.49				hJ		55		gr mi		PR						
BHT-02	54.50				hJ		80		gr mi		PR						
BHT-02	54.57				hJ		90		gr mi		PR						
BHT-02	54.69				hJ		40				PR						alt halo
BHT-02	55.85				hJ		60				PR						alt halo
BHT-02	55.93	55.96			J		30			CN	PR	RF					
BHT-02	55.93	55.96			J		30			CN	PR	SM					
BHT-02	55.97				hJ		70				PR						alt halo
BHT-02	55.99				hJ		40				PR						alt halo
BHT-02	56.06				hJ		20				PR						
BHT-02	56.44				hJ		40				PR						alt halo
BHT-02	56.48				hJ		40				PR						alt halo
BHT-02	56.58				hJ		40				PR						
BHT-02	56.65				hJ		50				PR						
BHT-02	56.93				J		35				PR	RF					
BHT-02	57.64				hJ		50		gr mi		PR						
BHT-02	57.96				hJ		20		wh mi		PR						
BHT-02	58.37				hJ		40				PR	RF					
BHT-02	58.47				hJ		70		wh mi		PR						
BHT-02	58.60	58.83			hJ		80		wh mi		IR						
BHT-02	58.62				hJ		50		wh mi		PR						
BHT-02	58.84				hJ		40		wh mi		PR						
BHT-02	58.89				hJ		50		wh mi		PR						
BHT-02	59.12	59.14			hJs		40		wh mi		PR						
BHT-02	59.41	59.61			hJ		90		wh mi		PR						
BHT-02	59.41				hJ				wh mi		PR						
BHT-02	59.48	59.50			hJs		30		wh mi		PR						
BHT-02	59.61				hJ				wh mi		PR						
BHT-02	59.71				hJ		50		wh mi		PR						
BHT-02	59.75				hJ		60				PR						
BHT-02	59.75				hJ		60				ST						
BHT-02	59.94				J		40			CT	ST	RF					
BHT-02	60.13				hJ		30		wh mi		PR						
BHT-02	60.36				hJ		40		wh mi		PR						
BHT-02	60.40				hJ		30		wh mi		PR						
BHT-02	60.41				hJ		40		wh mi		PR						
BHT-02	60.51				hJ				wh mi		PR						
BHT-02	60.90				J		40			CN	ST	RF					
BHT-02	61.13				hJ		20		wh mi		PR						
BHT-02	61.34				hJ		60		wh mi		PR						
BHT-02	61.44				hJ		50		wh mi		PR						
BHT-02	61.51				hJ		20		wh mi		PR						
BHT-02	61.89				hJ		70		wh mi		PR						
BHT-02	61.94				hJ		60		wh mi		PR						
BHT-02	61.97				hJ		50		wh mi		PR						
BHT-02	62.00	62.24			hJ		70			CT	PR	RF					
BHT-02	62.10	62.33			J		80			CN	UN	RF					ye-br alteration
BHT-02	62.15				V		70		wh mi		PR		<	3			
BHT-02	62.17				hJ		20			CN	IR	SM					
BHT-02	62.24				J		0			CN	IR	RF					
BHT-02	62.46				J		10	20		CN	IR	RF					
BHT-02	62.52				J		40			CN	PR	RF					
BHT-02	62.76	63.00			Js		70			SN	IR						broken core
BHT-02	63.05				hJ		80		wh mi		PR						
BHT-02	63.12	63.24			HB						IR	RF					possible HB
BHT-02	63.35				J		80			SN	PR	RF					
BHT-02	63.57				J		30			CN	ST	RF					
BHT-02	63.82				MB		60			CN	PR	RF					possible MB
BHT-02	63.87				hJ		80		wh mi		PR						
BHT-02	63.95				hJ		30		wh mi		PR						
BHT-02	63.98				hJ		40		wh mi		PR						
BHT-02	64.20				hJ		50		wh mi		PR						
BHT-02	64.22				hJ		50		wh mi		PR						
BHT-02	64.25				hJ		40		wh mi		PR						
BHT-02	64.33				hJ		30		wh mi		PR						
BHT-02	64.40				hJ		20		wh mi		PR						
BHT-02	64.44				hJ		20		wh mi		PR						
BHT-02	64.81				hJ		10		wh mi		PR						
BHT-02	64.83				J		10			CN	ST	SM					
BHT-02	64.85				J		40			CN	PR	RF					
BHT-02	64.86				hJ		40		wh mi		PR						
BHT-02	64.90				hJ		10				ST	RF					
BHT-02	64.94				hJ		50		wh mi		PR						



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BHT-02	65.00	65.11			hJs		50		wh mi		PR						
BHT-02	65.31	65.60			hJs		30	80	wh mi		PR						
BHT-02	65.70	66.27			J		85		pi wh mi	CT	PR	RF					
BHT-02	65.75				hJ		70				PR						<5 mm alt halo
BHT-02	65.87	66.29			Js		40	50	wh mi	CT	IR	RF					
BHT-02	66.35				J		70			CN	PR	SM					
BHT-02	66.38				J		5			CN	PR	RF					
BHT-02	66.42				V		80		wh mi				<	2			
BHT-02	66.56				V		70		wh mi				<	2			
BHT-02	66.56				J		60			CN	PR	SM					
BHT-02	66.65				hJ		90		wh mi		IR						<2 mm alt halo
BHT-02	66.73				Js	x4	70		wh mi	CT	PR	RF					
BHT-02	66.78				hJ		90		wh mi		CU						
BHT-02	66.83				hJ		70		wh mi		PR						
BHT-02	66.84				hJ		80		wh mi		PR						
BHT-02	66.85				hJ		60		wh mi		PR						
BHT-02	66.85	67.10			J	x10			Fe	SN	IR	RF					multiple defects, various angles, rubbed by drilling
BHT-02	67.10				J		50			CN	PR	SM					
BHT-02	67.17				hJ		70				IR						
BHT-02	67.20				J		40			CN	PR	RF					
BHT-02	67.28				hJ		90		wh mi		IR						
BHT-02	67.48				hJ		90		wh mi		IR						
BHT-02	67.55				hJ		90		wh mi		IR						
BHT-02	67.62				J		60			SN	PR	RF					
BHT-02	67.83				hJ		30		wh mi		PR						
BHT-02	67.85				J		30		wh mi		PR						
BHT-02	68.09				hJ		60		wh mi		PR						
BHT-02	68.33				hJ		60		wh mi		PR	RF					
BHT-02	68.37	68.63			AZ				wh mi		IR						
BHT-02	68.63				J		20			CN	IR	RF					
BHT-02	68.77				hJ		70		wh mi		IR						
BHT-02	68.79				hJ		80		wh mi		PR						
BHT-02	68.82	69.90			J	x5			br or mi	SN	IR	RF					multiple defects, various angles, possible MB on hJ
BHT-02	69.07				J		50			SN	ST	RF					
BHT-02	69.10				hJ		60		wh mi		PR						
BHT-02	69.14				hJ		40		wh mi		ST						
BHT-02	69.17				J		30			SN	IR	RF					
BHT-02	69.25				hJ		30		wh mi		IR						
BHT-02	69.26	69.29			DB												
BHT-02	69.43				hJ		90		wh mi		PR						
BHT-02	69.51				J		70			SN	PR	RF					
BHT-02	69.58				hJ		70		wh mi		PR						
BHT-02	69.62				J		70			SN	PR	RF					
BHT-02	69.64	70.00			AZ						IR						
BHT-02	69.92				J		60			SN	IR	RF					
BHT-02	70.01				hJ		90		wh mi		PR						
BHT-02	70.05	70.10			J		90		Fe	SN	IR	RF					
BHT-02	70.10				J		10			SN	IR	RF					
BHT-02	70.15				hJ		70		wh mi		PR						
BHT-02	70.40				J		50		wh mi	CT	PR	RF					
BHT-02	70.62				J		10			CN	IR	RF					
BHT-02	70.84				hJ		40		wh mi		PR						
BHT-02	70.85				J		40			CN	PR	SM					
BHT-02	70.92				hJ		20		wh mi		PR						
BHT-02	71.04				hJ		70		wh mi		PR						
BHT-02	71.20				hJ		70		wh mi		PR						
BHT-02	71.21				hJ		80		wh mi		PR						
BHT-02	71.42				hJ		40		wh mi		PR						
BHT-02	71.47				J		0	45		CN	ST	RF					
BHT-02	71.66	71.86			AZ				wh mi		PR						
BHT-02	71.86				J		60			CN	PR	RF					
BHT-02	72.00	72.29			Js		90		wh mi	CT	PR	RF					
BHT-02	72.05				J		40		wh mi	CT	IR	RF					
BHT-02	72.23				J		30		wh mi	CT	PR	RF					
BHT-02	72.32				hJ		70		wh mi		PR						
BHT-02	72.37				hJ		70		wh mi		PR						<4 mm alt halo
BHT-02	72.52				hJ		80		wh mi		PR						
BHT-02	72.69				hJ		70		wh mi		PR						
BHT-02	72.72				hJ		30		wh mi		PR						possible HB
BHT-02	72.78				hJ		50		wh mi		PR						
BHT-02	72.85				hJ		60		wh mi		PR						
BHT-02	73.13				hJ		30		wh mi		PR						possible HB
BHT-02	73.23				hJ		78		wh mi		PR						
BHT-02	73.38				J		10			CN	PR	RF					
BHT-02	73.51				hJ		70		wh mi		PR						
BHT-02	73.54				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	73.57				hJ		80		wh mi		PR						
BHT-02	73.60				hJ		70		wh mi		PR						
BHT-02	73.67				hJ		70		wh mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	73.67				hJ		70		wh mi		PR						
BHT-02	73.69				hJ		70		wh mi		PR						
BHT-02	73.88				hJ		80		wh mi		PR						
BHT-02	73.92				J		30			CN	PR	RF					possible HB
BHT-02	74.03				hJ		70		wh mi		PR						
BHT-02	74.13				hJ		70		wh mi		PR						
BHT-02	74.21				J		30			CN	PR	RF					
BHT-02	74.30				hJ		60		wh mi		PR						
BHT-02	74.46				J		0			CN	PR	RF					
BHT-02	74.63				hJ		80		wh mi		PR						<2 mm alt halo
BHT-02	74.70				hJ		60		wh mi		PR						
BHT-02	74.80				hJ		80		wh mi		PR						
BHT-02	74.90				J		30			CN	PR	RF					
BHT-02	74.92				hJ		40		wh mi		PR						
BHT-02	74.95				hJ		40		wh mi		PR						
BHT-02	75.03				J		50			CN	PR	RF					
BHT-02	75.08				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	75.17				hJ		70		wh mi		PR						
BHT-02	75.23				hJ		70		wh mi		PR						
BHT-02	75.43				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	75.65				J		20			CN	PR	RF					
BHT-02	75.68				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	75.78				J		30			CN	PR	RF					
BHT-02	75.88				hJ		70		wh mi		PR						
BHT-02	75.96				hJ		60		wh mi		PR						
BHT-02	76.02				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	76.06				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	76.12				hJ		60		wh mi		PR						<2 mm alt halo
BHT-02	76.29				AZ		60		wh mi		PR						
BHT-02	76.31				hJ		70		wh mi		PR						
BHT-02	76.56				hJ		70		wh mi		PR						
BHT-02	76.65				hJ		80		wh mi		PR						
BHT-02	76.68				hJ		60				PR						
BHT-02	76.75				hJ		80		wh mi		PR						<5 mm alt halo
BHT-02	76.88				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	76.95				hJ		60		wh mi		PR						
BHT-02	77.04				hJ		60		wh mi		PR						<2 mm alt halo
BHT-02	77.11				hJ		60		wh mi		PR						
BHT-02	77.13				hJ		60		wh mi		PR						
BHT-02	77.15				hJ		30		wh mi		PR						
BHT-02	77.24				hJ		50		wh mi		PR						
BHT-02	77.33				hJ		30		wh mi		PR						
BHT-02	77.34				hJ		60		wh mi		IR						
BHT-02	77.41				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	77.42				hJ		50		wh mi		PR						
BHT-02	77.47				hJ		30		wh mi		PR						
BHT-02	77.53				J		10			CN	PR	RF					
BHT-02	77.56				hJ		60		wh mi		PR						<2 mm alt halo
BHT-02	77.73				hJ		70		wh mi		PR						
BHT-02	77.78				hJ		80		wh mi		PR						
BHT-02	77.88				hJ		70				PR						
BHT-02	78.10				hJ		50		wh mi		PR						
BHT-02	78.40				hJ		70		wh mi		PR						
BHT-02	78.45				AZ						PR						
BHT-02	78.55				hJ		70		wh mi		PR						
BHT-02	78.60				hJ		70		wh mi		PR						
BHT-02	78.61				hJ		80		wh mi		PR						
BHT-02	78.78				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	78.97				hJ		70		wh mi		PR						
BHT-02	79.06	79.10			hJs		70		wh mi		PR						
BHT-02	79.10				hJ		90		wh mi		IR						
BHT-02	79.28				V		80		wh mi		IR		<	4			
BHT-02	79.31	79.45			hJs		50		wh mi		PR						
BHT-02	79.45				J		30			CN	PR	RF					
BHT-02	79.52				hJ		90		wh mi		IR						
BHT-02	79.56				hJ		60		wh mi		PR						
BHT-02	79.60				hJ		70		wh mi		PR						
BHT-02	79.74				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	79.80				J		10			CN	IR	RF					
BHT-02	79.88				hJ		60		wh mi		PR						<2 mm alt halo
BHT-02	79.95				J		0			CN	IR	RF					
BHT-02	80.07				hJ		50		wh mi		PR						
BHT-02	80.25				J		10			CN	PR	RF					
BHT-02	80.59				J		0			CN	PR	RF					
BHT-02	80.64				hJ		70		wh mi		PR		<	2			
BHT-02	80.84				hJ		60		wh mi		PR						<2 mm alt halo
BHT-02	81.12				J		20			CN	IR	RF					
BHT-02	81.56				hJ		70		wh mi		PR						
BHT-02	81.60				hJ		50		wh mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	81.64				hJ		30		wh mi		PR						
BHT-02	81.88				hJ		40		wh mi		PR						
BHT-02	81.96				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	81.98				hJ		30		wh mi		PR						
BHT-02	82.01				hJ		40		wh mi		PR						
BHT-02	82.02				hJ		70		wh mi		PR						
BHT-02	82.03				hJ		70		wh mi		PR						
BHT-02	82.07				J		40			CN	PR	RF					
BHT-02	82.09				hJ		40		wh mi		PR						
BHT-02	82.23				hJ		90		wh mi		IR						
BHT-02	82.28				hJ		40		wh mi		PR						
BHT-02	82.33				hJ		60		wh mi		PR						
BHT-02	82.37				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	82.57	82.65			AZ				wh mi		IR						
BHT-02	82.77				hJ		70		wh mi		PR						
BHT-02	82.81				hJ		50		wh mi		PR						
BHT-02	82.81				hJ		60		wh mi		PR						
BHT-02	82.86				hJ		80		wh mi		PR						
BHT-02	83.09				J		20			CN	IR	RF					
BHT-02	83.13				hJ		30		wh mi		IR						
BHT-02	83.16				hJ		40		wh mi		PR						
BHT-02	83.23				hJ		70		wh mi		PR						
BHT-02	83.25				hJ		60		wh mi		IR						
BHT-02	83.34				hJ		70		wh mi		PR						
BHT-02	83.41				hJ		90		wh mi		IR						
BHT-02	83.51				hJ		40		wh mi		PR						
BHT-02	83.52				hJ		90		wh mi		IR						
BHT-02	83.63				hJ		80		wh mi		IR						<2 mm alt halo
BHT-02	83.64	83.71			AZ		80		wh mi		IR						
BHT-02	83.81				hJ		80		wh mi		PR						
BHT-02	83.84				hJ		40		wh mi		PR						
BHT-02	83.90				hJ		70		wh mi		PR						
BHT-02	83.94				J		20			CN	IR	RF					
BHT-02	84.03	84.06			AZ		40		wh mi		IR						
BHT-02	84.11				hJ		60		wh mi		PR						
BHT-02	84.19				hJ		40		wh mi		PR						
BHT-02	84.21				hJ		40		wh mi		PR						
BHT-02	84.35	84.56			AZ		50		wh mi								
BHT-02	84.42				hJ		40		wh mi		PR						
BHT-02	84.50				hJ		50		wh mi		PR						<2 mm alt halo
BHT-02	84.83				hJ		50		wh mi		PR						
BHT-02	84.98				hJ		50		wh mi		PR						
BHT-02	85.09				hJ		60		wh mi		PR						<2 mm alt halo
BHT-02	85.10	85.38			hJs		50		wh mi		PR						
BHT-02	85.50				hJ		60		wh mi		PR						
BHT-02	85.58				hJ		60		wh mi		PR						
BHT-02	85.68				hJ		60		wh mi		PR						
BHT-02	85.72				hJ		60		wh mi		PR						
BHT-02	85.82				hJ		80		wh mi		PR						
BHT-02	85.83				hJ		40		wh mi		PR						<2 mm alt halo
BHT-02	85.89				J		0			CN	IR	SM					
BHT-02	86.06				hJ		80		wh mi		PR						
BHT-02	86.09				hJ		60		wh mi		PR						
BHT-02	86.10				hJ		50		wh mi		PR						
BHT-02	86.14				hJ		70		wh mi		PR						
BHT-02	86.16				J		0			CN	PR	SM					
BHT-02	86.17	86.30			AZ		70		wh mi		PR						
BHT-02	86.37	86.60			hJs		60		wh mi		PR						
BHT-02	86.66				hJ		90		wh mi		PR						
BHT-02	86.73				hJ		80		wh mi		PR						
BHT-02	86.80	87.00			AZ		70		wh mi		PR						
BHT-02	86.98				hJ		70		wh mi		PR						
BHT-02	87.07				hJ		90		wh mi		IR		<	2			
BHT-02	87.08				hJ		30		wh mi		PR						
BHT-02	87.15				hJ		90		wh mi		IR						
BHT-02	87.60				hJ		70		pl gr mi		UN						
BHT-02	87.85				J		0			CN	IR	RF					
BHT-02	87.91				hJ		70		wh mi		PR						
BHT-02	87.94				hJ		90		wh mi		PR						
BHT-02	88.07				hJ		70		wh mi		PR						
BHT-02	88.29				J		10			CN	PR	RF					
BHT-02	88.44				hJ		90		pl gr mi		UN						
BHT-02	88.69				hJ		70		pl gr mi		PR						
BHT-02	88.72				J		10			CN	PR	SM					
BHT-02	89.04				hJ		80		pl gr mi		UN						
BHT-02	89.25				J		10			CN	ST	RF					
BHT-02	89.37				V		80		pl gr mi		UN		<	7			
BHT-02	89.41				J		30			CN	ST	RF					
BHT-02	89.48				hJ		80		pl gr mi		UN						



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BHT-02	89.58				hJ		80		pl gr mi		UN						
BHT-02	89.68				hJ		70		pl gr mi		UN						
BHT-02	89.72				J		0			CN	PR	RF					
BHT-02	89.90				J		0			CN	PR	RF					
BHT-02	89.95				hJs		70		wh mi		PR						
BHT-02	90.02				hJ		80		wh mi		PR						
BHT-02	90.19				hJ		90		wh mi		PR						
BHT-02	90.35				hJ		80		pl gr mi		UN						
BHT-02	90.51				hJ		80		pl gr mi		PR						
BHT-02	90.66				hJ		80		pl gr mi		UN						
BHT-02	90.81				hJ		80		pl gr mi		PR						<7 mm alt halo
BHT-02	90.95				hJ		70		wh mi		PR						
BHT-02	91.13				hJ		80		dk mi		UN		<	5			
BHT-02	91.27				hJ		70		pl gr mi		UN						
BHT-02	91.31				J		50			CN	PR	SM					
BHT-02	91.37				hJ		50		wh mi		PR						
BHT-02	91.45				hJ		60		dk mi		PR						
BHT-02	91.55				V		70		pl gr mi		UN		<	3			
BHT-02	91.82				J		10			CN	PR	RF					
BHT-02	91.89				hJ		80		wh mi		PR						
BHT-02	92.08				hJ		70		pl gr mi		UN		<	2			
BHT-02	92.23				J		30			CN	ST	RF					
BHT-02	92.35				hJ		80		pl gr mi		UN						<100 mm alt halo
BHT-02	92.40				hJ		80		wh mi		UN						
BHT-02	92.71				hJ		80		wh mi		PR						
BHT-02	92.75				hJ		80		wh mi		PR						
BHT-02	93.04				hJ		70		wh mi		PR						
BHT-02	93.07				hJ		60		wh mi		PR						<5 mm alt halo
BHT-02	93.15				hJ		20		wh mi		PR						
BHT-02	93.20				J		0			CN	ST	RF					
BHT-02	93.25				hJ		30		wh mi		PR						
BHT-02	93.34	93.43			AZ		70		wh mi		IR						
BHT-02	93.53				hJ		90		wh mi		UN						
BHT-02	93.67	94.70			AZ		60		wh mi		IR						
BHT-02	93.83				hJ		80		wh mi		IR						
BHT-02	93.89	94.00			AZ		50		wh mi		IR						
BHT-02	94.07				hJ		30		wh mi		PR						
BHT-02	94.13				hJ		20		wh mi		PR						
BHT-02	94.14				hJ		70		wh mi		PR						
BHT-02	94.18				hJ		40		wh mi		PR						
BHT-02	94.21				hJ		20		wh mi		PR						
BHT-02	94.23				hJ		90		wh mi		PR						
BHT-02	94.36				hJ		80		wh mi		PR						
BHT-02	94.44				hJ		40		wh mi		PR						
BHT-02	94.44				hJ		20		wh mi		PR						
BHT-02	94.54				hJ		20		wh mi		PR						
BHT-02	94.60	94.72			AZ		60		wh mi		IR						
BHT-02	94.79				hJ		50		wh mi		PR						
BHT-02	94.83				hJ		40		wh mi		PR						
BHT-02	94.84				hJ		30		wh mi		PR						
BHT-02	94.87				hJ		50		wh mi		PR						
BHT-02	94.93				hJ		90		wh mi		PR						
BHT-02	95.06				hJ		50		wh mi		PR						
BHT-02	95.06				hJ		40		wh mi		PR						
BHT-02	95.12				hJ		50		wh mi		PR						
BHT-02	95.17				hJ		30		wh mi		PR						
BHT-02	95.20				hJ		50		wh mi		PR						
BHT-02	95.30				hJ		80		wh mi		UN						
BHT-02	95.35				hJ		70		wh mi		PR						<2 mm alt halo
BHT-02	95.46				hJ		30		wh mi		PR						
BHT-02	95.53				hJ		80		wh mi		PR						
BHT-02	95.58				hJ		70		wh mi		PR						
BHT-02	95.61	95.73			AZ		30		wh mi		IR						
BHT-02	95.63				V		80		wh mi		PR						
BHT-02	95.76				V		80		wh mi		PR		<	2			
BHT-02	95.95				hJ		50		wh mi		PR						
BHT-02	96.04				hJ		30		wh mi		PR						
BHT-02	96.09				hJ		30		wh mi		PR						
BHT-02	96.13				hJ		30		wh mi		PR						
BHT-02	96.17	96.23			AZ		30		wh mi		IR						
BHT-02	96.45				hJ		80		wh mi		PR						
BHT-02	96.49				hJ		30		wh mi		PR						
BHT-02	96.51				hJ		20		wh mi		PR						
BHT-02	96.59				hJ		20		wh mi		PR						
BHT-02	96.61				hJ		30		wh mi		PR						
BHT-02	96.70				hJ		15		wh mi		PR						
BHT-02	96.77				hJ		40		wh mi		PR						
BHT-02	97.02				hJ		70		wh mi		PR						
BHT-02	97.06				hJ		20		wh mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	97.19				hJ		20		wh mi		PR						
BHT-02	97.22				hJ		50		wh mi		PR						
BHT-02	97.27				hJ		50		wh mi		PR						
BHT-02	97.34				hJ		80		wh mi		PR						
BHT-02	97.35				hJ		70		wh mi		PR						
BHT-02	97.36				J		50			CN	PR	RF					
BHT-02	97.40	97.44			AZ		40		wh mi		IR						
BHT-02	97.55				J		5			CN	PR	RF					
BHT-02	97.56				hJ		58		wh mi		PR						
BHT-02	97.64				hJ		30		wh mi		PR						
BHT-02	97.65				hJ		50		wh mi		PR						
BHT-02	97.80				hJ		20		wh mi		PR						
BHT-02	97.91				hJ		70		wh mi		PR						
BHT-02	97.95				hJ		80		wh mi		PR						
BHT-02	97.95				hJ		50		wh mi		PR						
BHT-02	98.01				hJ		20		wh mi		PR						
BHT-02	98.06				hJ		70		wh mi		PR						
BHT-02	98.20				hJ		80		wh mi		PR						
BHT-02	98.25				hJ		50		wh mi		PR						
BHT-02	98.36	98.43			AZ		60		wh mi		IR						
BHT-02	98.56				hJ		70		wh mi		PR						
BHT-02	98.62				hJ		70		wh mi		PR						
BHT-02	98.63				hJ		30		wh mi		PR						
BHT-02	98.71				hJ		30		wh mi		PR						
BHT-02	98.79				hJ		50		wh mi		PR						
BHT-02	98.83				hJ		50		wh mi		PR						
BHT-02	98.91				hJ		60		wh mi		PR						
BHT-02	98.94				hJ		60		wh mi		PR						
BHT-02	99.07				hJ		40		wh mi		PR						
BHT-02	99.50				hJ		80		wh mi		PR						
BHT-02	99.66	99.71			AZ		20		wh mi		IR						
BHT-02	99.78				hJ		10		wh mi		PR						
BHT-02	100.08				hJ		80		wh mi		PR						
BHT-02	100.08				hJ		90		wh mi		PR						
BHT-02	100.38				hJ		30		wh mi		PR						
BHT-02	100.43				hJ		60		wh mi		PR						
BHT-02	100.78				hJ		50		wh mi		PR						
BHT-02	100.80				hJ		70		wh mi		PR						
BHT-02	100.86				J		0			CN	IR	RF					
BHT-02	100.95				hJ		50		wh mi		PR						
BHT-02	100.97				hJ		50		wh mi		PR						
BHT-02	101.05				hJ		80		wh mi		PR						
BHT-02	101.08	101.11			AZ		70		wh mi		IR						
BHT-02	101.10				hJ		50		wh mi		PR						
BHT-02	101.19				hJ		40		wh mi		PR						
BHT-02	101.23				hJ		80		wh mi		PR						
BHT-02	101.29				hJ		70		wh mi		PR						
BHT-02	101.30				hJ		90		wh mi		PR						
BHT-02	101.44				hJ		40		wh mi		PR						
BHT-02	101.46				V		90		wh mi		PR		<	2			
BHT-02	101.52	101.64			AZ		60		wh mi		IR						
BHT-02	101.74				hJ		50		wh mi		PR						
BHT-02	101.84				hJ		60		wh mi		PR						
BHT-02	101.88				hJ		80		wh mi		PR						
BHT-02	102.22				hJ		70		wh mi		PR						
BHT-02	102.37				V		60		pl gr mi		PR						
BHT-02	102.41				hJ		80		pl gr mi		UN						
BHT-02	102.46				hJ		80		pl gr mi		PR						
BHT-02	102.53				hJ		60		pl gr mi		PR						
BHT-02	102.75	102.80			AZ		30		pl gr mi		IR						
BHT-02	102.89				hJ		90		pl gr mi		UN						
BHT-02	102.98				AZ		90		pl gr mi		IR						
BHT-02	103.04				hJ		50		wh mi		PR						
BHT-02	103.10				hJ		90		wh mi		UN						
BHT-02	103.42				hJ		90		wh mi		UN						
BHT-02	103.61				hJ		90		wh mi		UN						
BHT-02	103.67				hJ		40		wh mi		PR						
BHT-02	103.73				J		10			CN	ST	RF					
BHT-02	103.78				hJ		60		wh mi		PR						
BHT-02	104.15				hJ		90		wh mi		UN						
BHT-02	104.19				hJ		60		wh mi		UN						
BHT-02	104.25				hJ		90		wh mi		PR						
BHT-02	104.36				hJ		20		wh mi		PR						
BHT-02	104.41				hJ		50		wh mi		PR						
BHT-02	104.43				J		10			CN	ST	RF					
BHT-02	104.51				hJ		60		wh mi		PR						
BHT-02	104.57				hJ		90		wh mi		UN						
BHT-02	104.78				J		70			CN	IR	RF					
BHT-02	104.80	104.88			AZ		60		wh mi		IR						

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Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	104.88				hJ		80		wh mi		IR						
BHT-02	104.95				hJ		70		wh mi		IR						
BHT-02	105.22				hJ		90		wh mi		UN						
BHT-02	105.24				hJ		30		wh mi		PR						
BHT-02	105.31				hJ		60		wh mi		UN						
BHT-02	105.35				hJ		70		wh mi		UN						alt halo
BHT-02	105.46				hJ		70		wh mi		UN						
BHT-02	105.54				hJ		40		wh mi		UN						
BHT-02	105.66				hJ		80		wh mi		IR						<10 mm alt halo
BHT-02	105.68	105.80			AZ		80		wh mi		IR						
BHT-02	105.83	106.18			AZ		40		wh mi		IR						
BHT-02	105.83				hJ		80		wh mi		PR						
BHT-02	105.96				hJ		70		wh mi		PR						
BHT-02	106.04				hJ		70		wh mi		PR						
BHT-02	106.11				hJ		60		wh mi		PR						
BHT-02	106.23				hJ		70		wh mi		PR						<3 mm alt halo
BHT-02	106.34				hJ		80		wh mi		PR						
BHT-02	106.40				hJ		50		wh mi		PR						
BHT-02	106.45				hJ		60		wh mi		IR						
BHT-02	106.59				hJ		80		wh mi		UN						
BHT-02	106.63				hJ		40		wh mi		PR						
BHT-02	106.73	106.82			AZ		60		wh mi		IR						
BHT-02	106.97				J		0			CN	PR	RF					
BHT-02	107.03				hJ		20		wh mi		PR						
BHT-02	107.06				hJ		60		wh mi		PR						
BHT-02	107.12				hJ		80		wh mi		PR						
BHT-02	107.12				hJ		70		wh mi		PR						
BHT-02	107.15				hJ		80		wh mi		PR						
BHT-02	107.15				hJ		50		wh mi		PR						
BHT-02	107.20				hJ		80		wh mi		PR						
BHT-02	107.23				hJ		50		wh mi		PR						
BHT-02	107.30				hJ		80		wh mi		PR						
BHT-02	107.31				hJ				wh mi		PR						
BHT-02	107.34				J		30			CN	PR	RF					
BHT-02	107.37				hJ		80		wh mi		PR						
BHT-02	107.45				hJ		40		wh mi		IR						
BHT-02	107.45				hJ		40		wh mi		CU						
BHT-02	107.57				J		0			CN	PR	RF					
BHT-02	107.67				hJ		40		wh mi		UN						
BHT-02	107.68				hJ		40		wh mi		PR						
BHT-02	107.70				hJ		40		wh mi		PR						
BHT-02	107.72				hJ		40		wh mi		PR						
BHT-02	107.79				J		50			CN	ST	RF					
BHT-02	107.86				V		70		wh mi		PR		<	2			
BHT-02	108.24				hJ		30		wh mi		PR						
BHT-02	108.40				V		60		wh mi		UN						
BHT-02	108.50				hJ		70		wh mi		CU						
BHT-02	108.58				J		40			CN	PR	RF					
BHT-02	108.64				J		60			CN	PR	SM					
BHT-02	108.66				J		90			CN	PR	RF					
BHT-02	108.68				J		20			CN	PR	RF					
BHT-02	108.75				hJ		50		wh mi		PR						
BHT-02	108.77				hJ		40		wh mi		PR						
BHT-02	108.83				hJ		50		wh mi		PR						
BHT-02	108.85				J		10			CN	PR	RF					
BHT-02	108.90				hJ		20		wh mi		PR						
BHT-02	108.92				hJ		70		wh mi		PR						
BHT-02	109.03				hJ		50		pl gr mi		PR						
BHT-02	109.06				hJ		60		pl gr mi		PR						
BHT-02	109.10				J		10			CN	PR	SM					
BHT-02	109.15				hJ		80		pl gr mi		PR						
BHT-02	109.15				hJ		80		pl gr mi		PR						
BHT-02	109.16				hJ		80		pl gr mi		PR						
BHT-02	109.22				hJ		30		pl gr mi		PR						
BHT-02	109.26				hJ		60		pl gr mi		PR						
BHT-02	109.30				hJ		70		pl gr mi		PR						
BHT-02	109.42				hJ		50		pl gr mi		PR						
BHT-02	109.58				hJ		60		pl gr mi		PR						
BHT-02	109.60				hJ		80		pl gr mi		PR						
BHT-02	109.64				hJ				pl gr mi		ST						
BHT-02	109.65				hJ		20		pl gr mi		PR						
BHT-02	109.68				hJ		20		pl gr mi		PR						
BHT-02	109.71				hJ		70		pl gr mi		PR						
BHT-02	109.76				hJ		50		pl gr mi		PR						
BHT-02	109.80				hJ		60		pl gr mi		UN						
BHT-02	109.86				hJ		20		pl gr mi		PR						
BHT-02	110.03				hJ		30		pl gr mi		PR						
BHT-02	110.10				hJ		50		pl gr mi		PR						
BHT-02	110.13				hJ		20		pl gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	110.15				hJ		40		pl gr mi		PR						
BHT-02	110.20				hJ		50		pl gr mi		PR						
BHT-02	110.22				hJ		30		pl gr mi		PR						
BHT-02	110.32				hJ		50		pl gr mi		PR						
BHT-02	110.39				hJ		40		pl gr mi		PR						
BHT-02	110.45				hJ		20		pl gr mi		PR						
BHT-02	110.50				hJ		60		pl gr mi		PR						
BHT-02	110.50				hJ		30		pl gr mi		PR						
BHT-02	110.52				hJ		40		pl gr mi		PR						
BHT-02	110.54				hJ		50		pl gr mi		PR						
BHT-02	110.55				hJ		48		pl gr mi		PR						
BHT-02	110.63				hJ		30		pl gr mi		PR						
BHT-02	110.65				hJ		40		pl gr mi		PR						
BHT-02	110.66				hJ		40		pl gr mi		PR						
BHT-02	110.71				hJ		50		pl gr mi		PR						
BHT-02	110.84				hJ		20		pl gr mi		PR						
BHT-02	110.88				J		20			CN	PR	RF					
BHT-02	110.95				hJ		40		pl gr mi		PR						
BHT-02	111.07				hJ		40		pl gr mi		PR						
BHT-02	111.09				hJ		40		pl gr mi		PR						
BHT-02	111.11				hJ		65		pl gr mi		PR						
BHT-02	111.27				hJ		40		pl gr mi		PR						
BHT-02	111.37				hJ		90		pl gr mi		IR						
BHT-02	111.37				V		20		pl gr mi		PR		<	2			
BHT-02	111.40				hJ		90		pl gr mi		PR						
BHT-02	111.42				hJ		80		wh mi		PR						
BHT-02	111.45				hJ		20		wh mi		PR						
BHT-02	111.55				hJ		30		pl gr mi		IR						
BHT-02	111.61				hJ		40		pl gr mi		PR						
BHT-02	111.73				V		50		pl yl mi		PR		<	10			
BHT-02	111.81				hJ				pl gr mi		IR						
BHT-02	111.82				hJ		90		pl gr mi		UN						
BHT-02	111.85				hJ		10		pl gr mi		PR						
BHT-02	111.90				hJ		70		pl gr mi		PR						
BHT-02	111.92				hJ		90		pl yl mi		UN						
BHT-02	111.97				hJ				pl yl mi		UN						
BHT-02	111.99				hJ		70		pl yl mi		UN						
BHT-02	112.08				V				pl gr mi		IR		<	7			
BHT-02	112.09				V		70		pl gr mi		PR		<	3			
BHT-02	112.15				V				pl gr mi		IR		<	2			
BHT-02	112.20				V		90		pl gr mi		UN		<	5			
BHT-02	112.21				hJ				pl gr mi		IR						
BHT-02	112.30				hJ		90		pl gr mi		PR						
BHT-02	112.40				J		20			CN	PR	RF					possible DB
BHT-02	112.40	112.60			hJ				pl yl mi		IR						fragments <10 mm
BHT-02	112.41				hJ		60		pl gr mi		PR						
BHT-02	112.46				V		70		wh mi		PR		<	2			
BHT-02	112.49				hJ		90		pl yl mi		IR						
BHT-02	112.64				hJ		70		pl gr mi		PR						
BHT-02	112.73				hJ		60		pl gr mi		PR						
BHT-02	112.84				hJ		70		pl yl mi		IR						
BHT-02	112.84	113.00			hJs	x5	90		pl gr mi		PR						10 mm spacing
BHT-02	112.86				hJ		65		pl yl mi		PR						
BHT-02	112.91				hJ		40		pl gr mi		PR						
BHT-02	113.07				hJ		80		pl gr mi		PR						
BHT-02	113.07				hJ		65		pl gr mi		PR						
BHT-02	113.11				V		30		pl yl mi		PR		<	5			
BHT-02	113.13				V		20		pl gr mi		PR						
BHT-02	113.13	113.23			AZ				pl gr mi		IR					extremely closely	
BHT-02	113.16				V				pl gr mi		IR		<	5			
BHT-02	113.16				hJ				pl gr mi		PR						
BHT-02	113.19				hJ		40		pl gr mi		PR						
BHT-02	113.20				hJ		70		pl gr mi		PR						
BHT-02	113.30				hJ		80		pl gr mi		PR						
BHT-02	113.32				hJ		80		pl gr mi		PR						
BHT-02	113.35				hJ				pl yl mi		IR						
BHT-02	113.42				hJ		70		pl yl mi		UN						
BHT-02	113.48				hJ		70		pl yl mi		PR						
BHT-02	113.59				V		45		pl gr mi		PR						
BHT-02	113.65				hJ		55		pl gr mi		UN						
BHT-02	113.69				V		90		pl gr mi		IR		<	2			
BHT-02	113.76	115.07			AZ				pl yl mi		IR					extremely closely	
BHT-02	113.88				J		0			CN	PR	SM					possible DB
BHT-02	114.25				J		40			CN	PR	RF					
BHT-02	114.35				hJ		90		wh mi		PR						
BHT-02	114.59				J		30			CN	PR	RF					
BHT-02	114.65				V		80		wh mi		PR		<	4			
BHT-02	114.67				hJ		20		wh mi		PR						
BHT-02	114.92				hJ		60		wh mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	115.07	115.11			V		50		pl yl mi		PR						
BHT-02	115.28				hJ		80		pl yl mi		PR						
BHT-02	115.47				hJ				pl yl mi		PR						
BHT-02	115.49				hJ		30		pl yl mi		CU						
BHT-02	115.50				hJ		60		pl yl mi		PR						
BHT-02	115.70				hJ		70		wh mi		PR						
BHT-02	115.77				hJ		30		pl yl mi		PR						
BHT-02	115.85				hJ		40		pl yl mi		PR						
BHT-02	115.89				hJ		30		pl yl mi		PR						
BHT-02	116.06				hJ		60		pl yl mi		PR						
BHT-02	116.12				hJ		60		pl yl mi		PR						
BHT-02	116.19				hJ		70		pl yl mi		PR						
BHT-02	116.34				hJ		40		pl yl mi		PR						
BHT-02	116.37				hJ		40		pl yl mi		PR						
BHT-02	116.45				hJ		30		pl yl mi		PR						
BHT-02	116.53				hJ		60		pl yl mi		PR						
BHT-02	116.58				hJ		20		pl yl mi		PR						
BHT-02	116.61				hJ		80		pl yl mi		UN						
BHT-02	116.62				hJ		80		pl yl mi		PR						
BHT-02	116.71				hJ		80		pl yl mi		PR						
BHT-02	116.80				hJ		20		wh mi		PR						
BHT-02	116.85				hJ		20		pl yl mi		PR						
BHT-02	116.93				hJ		50		pl yl mi		PR						
BHT-02	116.95				hJ		50		pl yl mi		PR						
BHT-02	117.06				hJ		40		pl yl mi		PR						
BHT-02	117.11				hJ		70		pl yl mi		IR						
BHT-02	117.20				hJ		50		pl yl mi		PR						
BHT-02	117.25				hJ		50		pl yl mi		PR						
BHT-02	117.39				hJ		40		pl yl mi		PR						
BHT-02	117.48				V		50		pl yl mi		PR		<	4			
BHT-02	117.52				hJ		40		pl yl mi		IR						
BHT-02	117.61				hJ		40		pl yl mi		PR						
BHT-02	117.66				hJs	x3	60		pl yl mi		PR						
BHT-02	117.73				hJ		60		pl yl mi		PR						
BHT-02	117.78				hJ		30		pl yl mi		PR						
BHT-02	117.81				hJ		70		pl yl mi		PR						
BHT-02	117.82				hJ		80		pl yl mi		PR						
BHT-02	117.90				hJ		60		pl yl mi		PR						
BHT-02	117.91				hJ		40		pl yl mi		PR						
BHT-02	117.94				hJ		30		pl yl mi		PR						
BHT-02	118.04				hJ		60		pl yl mi		PR						
BHT-02	118.07				hJ		60		pl yl mi		PR						
BHT-02	118.08				hJ		60		pl yl mi		PR						
BHT-02	118.09				hJ		20		pl yl mi		PR						
BHT-02	118.13				hJ		50		pl yl mi		PR						
BHT-02	118.24				hJ		20		pl yl mi		PR						
BHT-02	118.28				hJ		20		pl yl mi		PR						
BHT-02	118.30				hJ		60		pl yl mi		PR						
BHT-02	118.33				hJ		60		wh mi		PR						
BHT-02	118.35				hJ		90		pl yl mi		PR						
BHT-02	118.45				hJ		30		pl yl mi		PR						
BHT-02	118.66				hJ		20		pl yl mi		CU						
BHT-02	118.74				hJ		20		pl yl mi		PR						
BHT-02	118.76				hJ		40		pl yl mi		PR						
BHT-02	118.78				hJ		30		pl yl mi		PR						
BHT-02	118.96				hJ		60		wh mi		PR						
BHT-02	118.98				hJ		30		pl yl mi		PR						
BHT-02	119.08				hJ		50		pl yl mi		IR						
BHT-02	119.13				hJ		80		wh mi		IR						
BHT-02	119.22				J		0	20		CN	PR	RF					
BHT-02	119.27				hJ		40		pl yl mi		PR						
BHT-02	119.30				V		40		wh mi		PR		<	7			
BHT-02	119.58				hJ		70		pl yl mi		UN						
BHT-02	119.62				hJ		20		pl yl mi		PR						
BHT-02	119.64				hJ		60		pl yl mi		PR						
BHT-02	119.67				hJ		80		pl yl mi		PR						
BHT-02	119.72				hJ		50		wh mi		PR						
BHT-02	119.75				hJ		70		pl yl mi		PR						
BHT-02	119.78				hJ		80		pl yl mi		PR						
BHT-02	119.82				hJ		30		wh mi		PR						
BHT-02	119.87				hJ		40		pl yl mi		PR						
BHT-02	119.89				hJ		30		pl yl mi		PR						
BHT-02	119.95				V		50		pl yl mi		PR		<	7			
BHT-02	120.04				hJ						PR	RF					
BHT-02	120.09				hJ		40		pl yl mi		PR						
BHT-02	120.15				V		40		pl yl mi		PR		<	6			
BHT-02	120.22				V		50		pl yl mi		PR		<	8			
BHT-02	120.31				hJ		40		pl yl mi		PR						
BHT-02	120.35				hJ		20		pl yl mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	120.36				hJ		60		pl yl mi		PR						
BHT-02	121.03				V		60		wh mi		PR		<	6			
BHT-02	121.09				hJ		70		pl yl mi		PR						
BHT-02	121.11				hJ		50		wh mi		PR						
BHT-02	121.21				J		30			CN	PR	RF					
BHT-02	121.23				hJ		30		pl yl mi		PR						
BHT-02	121.26				hJ		30		pl yl mi		PR						
BHT-02	121.28				hJ		60		pl yl mi		PR						
BHT-02	121.33				V		50		pl yl mi		IR						
BHT-02	121.38				J		40		pl yl mi		PR						
BHT-02	121.39				hJ		20		pl yl mi		PR						
BHT-02	121.39				hJ		60		pl yl mi		PR						
BHT-02	121.41				hJ		50		pl yl mi		PR						
BHT-02	121.42				hJ		20		pl yl mi		PR						
BHT-02	121.43				V		30		pl yl mi		PR		<	3			
BHT-02	121.44				hJ		20		pl yl mi		PR						
BHT-02	121.46				hJ		50		wh mi		PR						
BHT-02	121.47				hJ		70		pl yl mi		IR						
BHT-02	121.50				hJ		60		pl yl mi		PR						
BHT-02	121.54				hJs	x3	50		pl yl mi		PR						
BHT-02	121.59				hJ		40		pl yl mi		PR						
BHT-02	121.59				hJ		40		pl yl mi		PR						
BHT-02	121.60				hJ		40		pl yl mi		PR						
BHT-02	121.62				hJ		60		wh mi		PR						
BHT-02	121.62				hJ		40		pl yl mi		PR						
BHT-02	121.64				hJ		50		pl yl mi		PR						
BHT-02	121.65				hJ		40		pl yl mi		PR						
BHT-02	121.65				hJ		70		pl yl mi		PR						
BHT-02	121.68				V				pl yl mi		PR		<	5			
BHT-02	121.73				V		40		pl yl mi		PR		<	2			
BHT-02	121.75				hJ		60		pl yl mi		PR						
BHT-02	121.77				hJs	x3	60		pl yl mi		PR						
BHT-02	121.78				V		60		pl yl mi		PR		<	8			
BHT-02	121.82				hJ		50		pl yl mi		PR						
BHT-02	121.84				V		50		pl yl mi		PR						
BHT-02	121.90				hJ		60		pl yl mi		PR						
BHT-02	121.90				hJ		30		pl yl mi		PR						
BHT-02	121.93				hJ		80		pl yl mi		PR						
BHT-02	121.94				hJ		40		pl yl mi		PR						
BHT-02	121.96				hJ		60		pl yl mi		PR						
BHT-02	122.00				hJ		50		pl yl mi		PR						
BHT-02	122.01	122.19			AZ				pl yl mi		IR					very closely	
BHT-02	122.23				hJ		30		pl yl mi		PR						
BHT-02	122.25	122.31			hJs	x3	60		pl yl mi		PR						
BHT-02	122.38				hJ		80		pl yl mi		PR						
BHT-02	122.43				hJ		20		pl yl mi		PR						
BHT-02	122.45				hJ		50		pl yl mi		PR						
BHT-02	122.46				hJ		50		pl yl mi		PR						
BHT-02	122.50				hJ		50		pl yl mi		PR						
BHT-02	122.59				hJ		50		pl yl mi		PR						
BHT-02	122.61				hJ		50		pl yl mi		PR						
BHT-02	122.62				hJ		60		pl yl mi		PR						
BHT-02	122.90				DB												
BHT-02	123.02				hJ		50		wh mi		PR						
BHT-02	123.07				hJ		50		wh mi		PR						
BHT-02	123.11				hJ		30		wh mi		PR						
BHT-02	123.12				hJ		50		wh mi		PR						
BHT-02	123.25				hJ		50		pl yl mi		PR						
BHT-02	123.29	123.35			hJs	x6	60		pl yl mi		PR						
BHT-02	123.42				hJ		30		wh mi		PR						
BHT-02	123.45				hJ		30		wh mi		PR						
BHT-02	123.46				V		50		wh mi		PR		<	2			
BHT-02	123.50				J		10			CN	PR	SM					
BHT-02	123.54				V		70		wh mi		PR		<	2			
BHT-02	123.56	123.78			hJs	x8	50		pl yl mi		IR						
BHT-02	123.66				V		40		pl yl mi		PR		<	3			
BHT-02	123.80				V		50		pl yl mi		PR		<	8			
BHT-02	123.91				V		60		pl yl mi		PR		<	6			
BHT-02	123.93				V		80		pl yl mi		PR		<	4			
BHT-02	123.94				hJ		80		wh mi		PR						
BHT-02	124.03				V		50		pl yl mi		PR		<	5			
BHT-02	124.07				hJ		80		wh mi		PR						
BHT-02	124.15				hJ		60		pl yl mi		PR						
BHT-02	124.16				hJ		20		pl yl mi		PR						
BHT-02	124.21	124.30			AZ		60		pl yl and wh mi		IR					very closely	
BHT-02	124.35				hJ		80		wh mi		PR						
BHT-02	124.39				hJ		50		pl yl mi		PR						
BHT-02	124.42				hJ		50		pl yl mi		PR						
BHT-02	124.45				hJ		40		pl yl mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	124.49				hJ		70		pl yl mi		PR						
BHT-02	124.49				hJ		70		pl yl mi		PR						
BHT-02	124.58				hJ		40		pl yl mi		PR						
BHT-02	124.90				hJ		70		pl yl mi		PR						
BHT-02	124.93				hJ		50		pl yl mi		PR						
BHT-02	125.04				hJ		40				PR	RF					
BHT-02	125.20				V		80		pl yl mi		PR		<	3			
BHT-02	125.27				hJ		60		wh mi		PR						
BHT-02	125.31				hJ		40		wh mi		PR						
BHT-02	125.34				hJ		60		wh mi		PR						
BHT-02	125.43	125.48			hJs	x4	30		wh mi		IR						
BHT-02	125.58				hJ		30		wh mi		PR						
BHT-02	125.62	125.67			hJs	x4	50		wh mi		IR						
BHT-02	125.71				hJ		80		wh mi		PR						
BHT-02	125.74	125.80			hJs	x6	30		wh mi		IR						
BHT-02	125.78				J		30			CN	PR	SM					
BHT-02	125.82				V		50		wh mi		PR						
BHT-02	125.85				hJ		80		wh mi		PR						
BHT-02	125.92	125.96			hJs	x5	60		pl yl mi		IR						
BHT-02	126.03				hJ		70		wh mi		PR						
BHT-02	126.08				hJ		60		pl yl mi		PR						
BHT-02	126.23				hJ		80		pl yl mi		PR						
BHT-02	126.23				hJ		70		pl yl mi		PR						
BHT-02	126.32				hJ		80		pl yl mi		PR						
BHT-02	126.38				hJ		80		pl yl mi		PR						
BHT-02	126.42				hJ		50		pl yl mi		PR						
BHT-02	126.45				hJ		60		pl yl mi		PR						
BHT-02	126.49				hJ		20		pl yl mi		PR						
BHT-02	126.52				hJ		50		pl yl mi		PR						
BHT-02	126.55				J		60			CN	PR	RF					
BHT-02	126.58				hJ		80		pl yl mi		PR						
BHT-02	126.61				hJ		80		pl yl mi		PR						
BHT-02	126.62				hJ		70		pl yl mi		PR						
BHT-02	126.69				hJ		40		pl yl mi		PR						
BHT-02	126.79				hJ		80		pl yl mi		PR						
BHT-02	126.81				hJ		70		pl yl mi		PR						
BHT-02	126.90				hJ		50		wh mi		PR						
BHT-02	126.91				V		80		wh mi		UN						
BHT-02	126.98				hJ		60		pl yl mi		PR						
BHT-02	127.07				hJ		20		pl yl mi		PR	RF					
BHT-02	127.08				hJ		70		pl yl mi		PR						
BHT-02	127.16				hJ		40		pl yl mi		PR						
BHT-02	127.18				hJ		50		wh mi		PR						
BHT-02	127.25				hJ		30		pl yl mi		PR						
BHT-02	127.27				hJ		50		wh mi		PR						
BHT-02	127.29				V		80		wh mi		PR						
BHT-02	127.30	127.32			hJs	x2	10		wh mi		PR						
BHT-02	127.39				hJs	x3	90		wh mi		PR						
BHT-02	127.47				hJ		40		wh mi		PR						
BHT-02	127.53				hJ		50		pl yl mi		PR						
BHT-02	127.62				V		30		pl yl mi		PR		<	2			
BHT-02	127.64				V		40		pl yl mi		PR		<	5			
BHT-02	127.72				hJ		30		pl yl mi		PR						
BHT-02	127.75				hJ		30		pl yl mi		PR						
BHT-02	127.85				hJ		40		wh mi		PR						
BHT-02	128.00				hJ		90		pl grgr mi		PR						
BHT-02	128.12				hJ		40		pl yl mi		PR						
BHT-02	128.16				V		60		pl grgr mi		IR						
BHT-02	128.18				V		60		gr mi		PR		<	2			
BHT-02	128.22				hJ		80		pl grgr mi		PR						
BHT-02	128.27				hJ		50		pl grgr mi		PR		<	2			
BHT-02	128.45				V		60		pl grgr mi		PR		<	2			
BHT-02	128.50	128.65			V	/hJsx6	50		pl yl mi		PR		<	3			
BHT-02	128.69				hJ		70		wh mi		CU						
BHT-02	128.74				hJ		40		pl yl mi		PR						
BHT-02	128.82				hJ		80		wh mi		PR						
BHT-02	128.85				J		10			CN	PR	RF					
BHT-02	128.90				V		50		wh mi		PR		<	3			
BHT-02	128.95	129.00			hJs	x3	40		wh mi		PR						
BHT-02	129.00				hJ		80		wh mi		PR						
BHT-02	129.10				hJ		70		wh mi		PR						
BHT-02	129.20				hJ		30		wh mi		PR						
BHT-02	129.33				V		20		wh mi		PR						
BHT-02	129.41				hJ		40		wh mi		PR						
BHT-02	129.47				hJ		40		wh mi		PR						
BHT-02	129.50				hJ		30		pl yl mi		PR						
BHT-02	129.55				V		50		pl yl mi		PR		<	2			
BHT-02	129.56				hJ		50		pl yl mi		PR						
BHT-02	129.65				hJ		70		wh mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	129.78				V		70		wh mi		PR		<	11			
BHT-02	129.80	129.85			hJs		20		wh mi		IR					very closely	
BHT-02	129.96				hJ		50		wh mi		PR						
BHT-02	130.03				hJ		40		wh mi		PR						
BHT-02	130.13				hJ		50		wh mi		PR						
BHT-02	130.22				V		60		wh mi		PR		<	5			
BHT-02	130.24				hJ		30		wh mi		PR						
BHT-02	130.24				hJ		30		wh mi		PR						
BHT-02	130.40				hJ		40		wh mi		PR						
BHT-02	130.40				hJ		70		wh mi		PR						
BHT-02	130.43				hJ		80		wh mi		PR						
BHT-02	130.46				hJ		40		wh mi		PR						
BHT-02	130.46				hJ		50		wh mi		PR						
BHT-02	130.47				V		70		wh mi		CU		<	3			
BHT-02	130.58				hJ		80		wh mi		PR						
BHT-02	130.66				hJ		70		wh mi		PR						
BHT-02	130.70	130.75			hJs	x3	60		wh mi		PR						
BHT-02	130.71				V		60		wh mi		PR		<	2			
BHT-02	130.84	130.88			hJs	x3	68		wh mi		PR						
BHT-02	130.89				hJ		50		wh mi		PR						
BHT-02	131.03	131.11			hJs	x6	30		wh mi		IR					very closely	
BHT-02	131.17				hJ		50		wh mi		PR						
BHT-02	131.25	131.60			AZ				pl yL mi		IR					extremely closely	
BHT-02	131.67				hJ		20		wh mi		PR						
BHT-02	131.73				hJ		80		wh mi		UN						
BHT-02	131.76				hJ		70		wh mi		UN						
BHT-02	131.83				hJ		60		wh mi		UN						
BHT-02	131.92				hJ		60		wh mi		PR						
BHT-02	131.98				hJ		60		wh mi		PR						
BHT-02	132.02				hJ		30		wh mi		PR						
BHT-02	132.07				hJ		50		wh mi		PR						
BHT-02	132.10				hJ		90		wh mi		PR						
BHT-02	132.15				hJ		60		wh mi		PR						
BHT-02	132.20				hJ		50		wh mi		PR						
BHT-02	132.25				hJ		40		wh mi		PR						
BHT-02	132.26				hJ		60		wh mi		PR						
BHT-02	132.37				hJ		30		wh mi		PR						
BHT-02	132.42				hJ		80		wh mi		PR						
BHT-02	132.45				hJ		50		wh mi		PR						
BHT-02	132.50				hJ		50		wh mi		UN						
BHT-02	132.51				hJ		50		wh mi		IR						
BHT-02	132.54				V		60		wh mi		IR		<	3			
BHT-02	132.57	132.65			AZ		50		wh mi		IR					very closely spaced	
BHT-02	132.66				hJ		60		wh mi		PR						
BHT-02	132.75				V		90		wh mi		IR						
BHT-02	132.80				V		50		wh mi		IR						
BHT-02	132.83				V		90		wh mi		IR		<	3			
BHT-02	132.83				hJ		30		wh mi		PR						
BHT-02	132.88				hJ		40		wh mi		PR						
BHT-02	132.88	132.97			hJs		40		wh mi		IR					very closely	
BHT-02	132.93				hJ		90		wh mi		PR						
BHT-02	133.03				hJs	x2	70		wh mi		PR						
BHT-02	133.08				hJ		60		wh mi		PR						
BHT-02	133.16				V		70		wh mi		PR		<	2			
BHT-02	133.52				J		10			CN	ST	RF					
BHT-02	133.55				hJ		50		wh mi		PR						
BHT-02	133.66	133.94			hJs	x6	60		wh mi		PR						
BHT-02	134.02				hJ		70		wh mi		PR						
BHT-02	134.04				J		20			CN	PR	SM					
BHT-02	134.10				hJ		60		wh mi		PR						
BHT-02	134.22	134.50			hJs	x12	20		wh mi		IR						
BHT-02	134.35				hJ		50		wh mi		PR						
BHT-02	134.48				hJ		20		wh mi		PR						
BHT-02	134.56				hJ		60		wh mi		PR						
BHT-02	134.69				J		10			SN	PR	RF					
BHT-02	134.75				hJ		10		wh mi		PR						
BHT-02	134.78				hJ		80		wh mi		PR						
BHT-02	134.81	134.83			hJs	x3			wh mi		IR						
BHT-02	134.85				J		30			CN	PR	SM					
BHT-02	134.90				V		50		pl yL mi		PR		<	9			
BHT-02	134.95				V		60		pl yL mi		PR		<	3			
BHT-02	134.96				J		20			CN	IR	RF					
BHT-02	135.08				hJ		70		wh mi		PR						
BHT-02	135.09				hJ		40		wh mi		PR						
BHT-02	135.13				V		40		wh mi		PR		<	4			
BHT-02	135.18				hJ		50		wh mi		PR						
BHT-02	135.24				hJ		50		wh mi		PR						
BHT-02	135.34				hJ		70		wh mi		PR						
BHT-02	135.36				hJ		60		wh mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	135.41				V		60		wh mi		PR		<	2			
BHT-02	135.43				hJ		60		wh mi		PR						
BHT-02	135.46				hJ		60		wh mi		PR						
BHT-02	135.52				hJ		50		wh mi		PR						
BHT-02	135.56				hJ		70		wh mi		PR						
BHT-02	135.69				hJ		70		pl yl mi		PR						
BHT-02	135.80				hJs	x3	70		pl grgr mi		PR						
BHT-02	135.98				hJ		70		pl grgr mi		PR						
BHT-02	136.06				hJ		40		wh mi		PR						
BHT-02	136.16				J		10			CN	PR	SM					
BHT-02	136.37				hJ		70		wh mi		PR						
BHT-02	136.38				hJ		60		wh mi		PR						
BHT-02	136.42				hJ		40		wh mi		PR						
BHT-02	136.43				hJ		60		wh mi		PR						
BHT-02	136.46				J		20		wh mi		PR						
BHT-02	136.55	137.00			AZ				pl yl mi		IR					extremely closely	
BHT-02	136.92				V		70		pl yl mi		PR		<	4			
BHT-02	137.04				hJ		70		pl yl mi		PR						
BHT-02	137.08				J		10			CN	PR	SM					
BHT-02	137.14	137.25			Vs	/hJsx6	70		pl yl mi		PR		<	8		very closely	
BHT-02	137.36				hJ		60		pl gr mi		PR						
BHT-02	137.39				hJ		60		pl gr mi		PR						
BHT-02	137.44				V		60		pl gr mi		PR		<	4			
BHT-02	137.46				hJ		20		pl gr mi		PR						
BHT-02	137.50				hJ		30		pl gr mi		PR						
BHT-02	137.59				hJ		50		pl gr mi		PR						
BHT-02	137.61				hJ		50		pl gr mi		PR						
BHT-02	137.67				hJ		50		pl gr mi		PR						
BHT-02	137.79				V		80		pl gr mi		PR		<	8			
BHT-02	138.09				hJ		50		wh mi		PR						
BHT-02	138.13				hJ		50		wh mi		PR						
BHT-02	138.20				V		80		pl yl mi		PR		<	3			
BHT-02	138.32				hJ		80		pl yl mi		PR						
BHT-02	138.41				hJ		40		pl yl mi		PR						
BHT-02	138.50				hJ		80		pl yl mi		PR						
BHT-02	138.50				hJ		70		pl yl mi		PR						
BHT-02	138.59				hJ		80		pl yl mi		PR						
BHT-02	138.62				hJ		80		pl yl mi		PR						
BHT-02	138.73				V		70		pl yl mi		PR		<	3			
BHT-02	138.79				V		40		dk mi		PR						
BHT-02	138.84				V		40		dk mi		PR		<	3			
BHT-02	138.90				hJ		50		wh mi		PR						
BHT-02	138.96				hJ		70		wh mi		PR						
BHT-02	139.06				hJ		50		pl gr mi		PR						
BHT-02	139.18				hJ		30		wh mi		PR						
BHT-02	139.23				hJ		30		wh mi		PR						
BHT-02	139.25				hJ		50		wh mi		PR						
BHT-02	139.36				hJ		50		pl gr mi		PR						
BHT-02	139.42				hJ		50		pl gr mi		IR						
BHT-02	139.55				DB												
BHT-02	139.62				hJ		60		pl gr mi		PR						
BHT-02	139.66				hJ		60		pl gr mi		PR						
BHT-02	139.73				hJ		60		pl gr mi		PR						
BHT-02	139.88				hJ		80		pl gr mi		PR						
BHT-02	139.94				hJ		80		pl gr mi		PR						
BHT-02	140.04				hJ		90		pl gr mi		PR						
BHT-02	140.09				hJ		90		pl gr mi		PR						
BHT-02	140.18				hJ		80		pl gr mi		PR						
BHT-02	140.19				hJ		90		pl gr mi		PR						
BHT-02	140.26				J		40			CN	PR	RF					
BHT-02	140.27				V		70		pl gr mi		PR		<	3			
BHT-02	140.29				hJ		80		pl gr mi		PR						
BHT-02	140.40				hJ		80		wh mi		PR						
BHT-02	140.42				V		60		pl gr mi		PR		<	3			
BHT-02	140.42				hJ		80		pl gr mi		PR						
BHT-02	140.47				hJ		60		pl gr mi		PR						
BHT-02	140.57				DB												
BHT-02	140.67				hJ		30		wh mi		PR						
BHT-02	140.69				hJ		70		wh mi		PR						
BHT-02	140.82				hJ		60		wh mi		PR		<	2			
BHT-02	140.88				hJ		80		wh mi		PR						
BHT-02	140.95				hJ		60		wh mi		PR						
BHT-02	141.10				hJ		90		wh mi		PR						
BHT-02	141.31				hJ		70		wh mi		PR						
BHT-02	141.33				hJ		70		wh mi		PR						
BHT-02	141.35				hJ		90		wh mi		PR						
BHT-02	141.39				hJs	x2	50		wh mi		PR						
BHT-02	141.47				hJ		70		wh mi		PR						
BHT-02	141.56				hJ		80		wh mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	142.04				hJ		50		wh mi		PR						
BHT-02	142.06				hJ		40		wh mi		PR						
BHT-02	142.07				hJ		60		wh mi		PR						
BHT-02	142.39				hJ		70		wh mi		PR						
BHT-02	142.41				hJ		40		wh mi		PR						
BHT-02	142.44				hJ		70		wh mi		PR						
BHT-02	142.47				hJ		60		wh mi		PR						
BHT-02	142.65				hJ		50		wh mi		PR						
BHT-02	143.20				hJ		20		wh mi		PR						
BHT-02	143.22				hJ		50		wh mi		PR						
BHT-02	143.26				hJ		80		wh mi		PR						
BHT-02	143.29				hJ		60		wh mi		PR						
BHT-02	143.35				hJ		40		wh mi		PR						
BHT-02	143.83				hJ		60		wh mi		PR						
BHT-02	143.90				hJ		20		wh mi		PR						
BHT-02	143.96				hJ		60		wh mi		PR						
BHT-02	144.02				hJ		60		wh mi		PR						
BHT-02	144.04				hJ		60		wh mi		PR						
BHT-02	144.06				hJ		70		wh mi		PR						
BHT-02	144.08				hJ		60		wh mi		PR						
BHT-02	144.10				hJ		60		wh mi		PR						
BHT-02	144.14				hJ		60		wh mi		PR						
BHT-02	144.16				J		10			CN	IR	RF					
BHT-02	144.18				hJ		50		wh mi		PR						
BHT-02	144.19				hJ		60		wh mi		PR						
BHT-02	144.23				hJ		20		wh mi		PR						
BHT-02	144.32				hJ		80		wh mi		PR						
BHT-02	144.42				hJ		80		wh mi		PR						
BHT-02	144.48				J		30			SN	PR	RF					
BHT-02	144.56				hJ		40		wh mi		PR						
BHT-02	144.60				hJs	x2	40		wh mi		PR						
BHT-02	144.70				hJ		50		wh mi		PR						
BHT-02	144.74				hJ		80		wh mi		PR						
BHT-02	145.15				hJ		40		wh mi		PR						
BHT-02	145.54				hJ		70		wh mi		PR						
BHT-02	146.22				hJ		60		wh mi		PR						
BHT-02	146.56				hJ		70		wh mi		PR						
BHT-02	146.56				hJ		70		wh mi		PR						
BHT-02	146.75				V		50		wh mi		PR						
BHT-02	147.03				hJ		10		wh mi		PR						
BHT-02	147.05				hJ		80		wh mi		PR						
BHT-02	147.48				hJ		50		wh mi		PR						
BHT-02	147.89				hJ		40		wh mi		PR						
BHT-02	147.98				hJ		70		wh mi		PR						
BHT-02	147.98				hJ		30		wh mi		PR						
BHT-02	148.00	148.03			hJs	x3	30		wh mi		PR					very closely	
BHT-02	148.10				hJ		60		wh mi		PR						
BHT-02	148.14				hJ		30		wh mi		PR						
BHT-02	148.18	148.29			hJ		30		wh mi		IR					extremely closely	
BHT-02	148.32				V		50		wh mi		PR		<	3			
BHT-02	148.36				V		50		wh mi		PR		<	4			
BHT-02	148.37				J		40			CN	PR	RF					
BHT-02	148.38				V		50		wh mi		PR		<	3			
BHT-02	148.43				hJ		50		dk mi		PR						
BHT-02	148.44				hJ		50		wh mi		PR						
BHT-02	148.50				hJ		70		wh mi		PR						
BHT-02	148.55				hJ		50		wh mi		PR						
BHT-02	149.52				V		60		wh mi		PR		<	3			
BHT-02	149.61				V		60		wh mi		PR		<	4			
BHT-02	149.70				V		70		wh mi		PR		<	2			
BHT-02	149.73				V		50		wh mi		PR		<	2			
BHT-02	149.82				hJ		70		wh mi		PR						
BHT-02	149.85				hJ		90		wh mi		PR						
BHT-02	149.87				hJ		70		wh mi		PR						
BHT-02	149.95				hJ		70		wh mi		PR						
BHT-02	150.06				hJ		50		wh mi		PR						
BHT-02	150.20				hJ		20		wh mi		PR						
BHT-02	150.25				V		78		wh mi		PR		<	2			
BHT-02	150.25				hJ		60		dk mi		PR						
BHT-02	150.32				V		50		dk mi		PR		<	4			
BHT-02	150.37				hJs	x2	60		wh mi		PR						
BHT-02	150.50				hJ		40		wh mi		PR						
BHT-02	150.58	150.61			hJs	x3	30		wh mi		PR						
BHT-02	150.61				V		50		wh mi		PR		<	3			
BHT-02	150.65				hJ		70		wh mi		PR						
BHT-02	150.70				hJs	x2	50		wh mi		PR						
BHT-02	150.81				hJ		10		wh mi		PR						
BHT-02	150.94				V		60		wh mi		PR		<	2			
BHT-02	151.04				V		70		wh mi		PR		<	2			



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	151.24	151.30			hJs	x5	50		wh mi		IR						
BHT-02	151.25				V		80		wh mi		PR		<	2			
BHT-02	151.34				hJ		50		wh mi		PR						
BHT-02	151.36				hJ		50		wh mi		PR						
BHT-02	151.47				hJ		60		wh mi		PR						
BHT-02	151.60				hJ		40		wh mi		PR						
BHT-02	151.61				hJ		50		wh mi		PR						
BHT-02	151.64				hJ		50		wh mi		PR						
BHT-02	151.67	152.25			AZ				pl gr and wh mi		IR					extremely closely	
BHT-02	151.69				hJ		70		wh mi		PR						
BHT-02	151.84				hJ		50		pl gr mi		PR						
BHT-02	151.93				hJ		80		pl gr mi		PR						
BHT-02	151.94				V		80		pl gr mi		PR		<	3			
BHT-02	152.03				hJ		80		pl gr mi		PR						
BHT-02	152.06				hJ		80		pl gr mi		PR						
BHT-02	152.10				hJ		70		pl gr mi		PR						
BHT-02	152.14				hJ		70		pl gr mi		PR						
BHT-02	152.24				hJ		60		wh mi		PR						
BHT-02	152.33				V		20		pl gr mi		PR						
BHT-02	152.43				hJ		70		pl gr mi		PR						
BHT-02	152.55				V		70		pl gr mi		PR		<	2			
BHT-02	152.70				hJ		20		wh mi		PR						
BHT-02	152.75				hJ		90		wh mi		PR						
BHT-02	152.83				hJ		70		wh mi		PR						
BHT-02	152.93				hJ		70		wh mi		PR						
BHT-02	153.06				hJ		70		wh mi		PR						
BHT-02	153.07				hJ		80		wh mi		PR						
BHT-02	153.14				hJ		70		wh mi		PR						
BHT-02	153.37				hJ		70		wh mi		PR						
BHT-02	153.41				V		50		wh mi		IR						
BHT-02	153.60				hJ		80		wh mi		PR						
BHT-02	153.76				hJ		90		wh mi		PR						
BHT-02	153.77				hJ		80		wh mi		PR						
BHT-02	153.89				V		60		wh mi		PR		<	2			
BHT-02	153.90				hJ		60		wh mi		PR						
BHT-02	153.92				hJ		80		wh mi		PR						
BHT-02	153.93				V		70		wh mi		PR		<	2			
BHT-02	153.94				hJ		30		wh mi		PR						
BHT-02	153.96				hJ		40		wh mi		PR						
BHT-02	154.00	154.08			hJs	x4	50		wh mi		PR						
BHT-02	154.11				hJ		80		wh mi		PR						
BHT-02	154.14				hJ		50		wh mi		PR						
BHT-02	154.16				hJ		90		wh mi		PR						
BHT-02	154.19				hJ		90		wh mi		PR						
BHT-02	154.25				hJ		50		wh mi		PR						
BHT-02	154.40				hJ		60		wh mi		PR						
BHT-02	154.41				hJ		70		wh mi		PR						
BHT-02	154.44				hJ		60		wh mi		PR						
BHT-02	154.46				V		80		wh mi		PR		<	4			
BHT-02	154.55				hJ		90		wh mi		PR						
BHT-02	154.69				V		60		dk mi		PR		<	10			
BHT-02	154.86				hJ		60		wh mi		PR						
BHT-02	154.87				hJ		60		wh mi		PR						
BHT-02	154.92				hJ		40		wh mi		PR						
BHT-02	154.96				hJs	x3	70		wh mi		PR						
BHT-02	155.03				hJ		50		wh mi		PR						
BHT-02	155.06				hJ		80		wh mi		PR						
BHT-02	155.13				hJ		70		wh mi		PR						
BHT-02	155.13				hJ		70		wh mi		PR						
BHT-02	155.34				hJs	x4	80		wh mi		PR						
BHT-02	155.42				hJ		80		wh mi		PR						
BHT-02	155.47				hJ		50		wh mi		PR						
BHT-02	155.48				hJ		70		wh mi		PR						
BHT-02	155.59				hJ		70		wh mi		PR						
BHT-02	155.59				hJ		70		wh mi		PR						
BHT-02	155.63				hJ		70		wh mi		PR						
BHT-02	155.66				hJ		10		wh mi		PR						
BHT-02	155.67				V		60		wh mi		IR		<	2			
BHT-02	155.75				hJs	x10	80		wh mi		IR						
BHT-02	155.76				V		80		wh mi		PR		<	3			
BHT-02	156.04				hJ		90		wh mi		PR						
BHT-02	156.09				hJ		20		wh mi		PR						
BHT-02	156.23				V		50		wh mi		PR		<	2			
BHT-02	156.24				hJs	x2	90		wh mi		PR						
BHT-02	156.26				hJ		40		wh mi		PR						
BHT-02	156.34				hJ		90		pl gr mi		PR						
BHT-02	156.39				V		60		pl gr mi		PR						
BHT-02	156.50				V		80		pl gr mi		PR						
BHT-02	156.52				hJ		50		pl gr mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	156.58				V		90		pl gr mi		IR		<	4			
BHT-02	156.65				hJ		40		pl gr mi		PR						
BHT-02	156.71				hJ		90		pl gr mi		PR						
BHT-02	156.85				hJ		90		pl gr mi		PR						
BHT-02	156.89				hJ		80		pl gr mi		PR						
BHT-02	156.96				hJ		80		pl gr mi		PR						
BHT-02	157.03				hJ		60		pl yl mi		PR						
BHT-02	157.04				J		50			CN	PR	RF					
BHT-02	157.08				hJ		70		pl yl mi		PR						
BHT-02	157.10				hJ		70		pl yl mi		PR						
BHT-02	157.20				hJ		70		pl yl mi		PR						
BHT-02	157.21				hJ		70		wh mi		PR						
BHT-02	157.27				hJ		30		pl yl mi		PR						
BHT-02	157.37				hJ		30		pl yl mi		PR						
BHT-02	157.38				hJ		50		pl yl mi		PR						
BHT-02	157.41				hJ		30		pl yl mi		PR						
BHT-02	157.48				hJ		40		pl yl mi		PR						
BHT-02	157.55				hJ		30		pl yl mi		PR						
BHT-02	157.62				hJ		40		pl yl mi		PR						
BHT-02	157.69				hJ		80		pl yl mi		PR						
BHT-02	157.75				hJ		50		pl yl mi		PR						
BHT-02	157.79				hJ		70		pl yl mi		PR						
BHT-02	157.83				hJ		30		pl yl mi		PR						
BHT-02	157.85				hJ		40		pl yl mi		PR						
BHT-02	157.91				hJ		30		pl yl mi		PR						
BHT-02	157.95				hJ		50		pl yl mi		PR						
BHT-02	158.09				hJ		80		pl yl mi		PR						
BHT-02	158.11				hJ		50		pl yl mi		PR						
BHT-02	158.26				hJ		60		pl yl mi		PR						
BHT-02	158.32				hJ		70		pl yl mi		PR						
BHT-02	158.78				hJ		30		pl yl mi		PR						
BHT-02	158.88				V		80		pl yl mi		PR		<	6			
BHT-02	158.92				hJ		50		pl yl mi		PR						
BHT-02	158.95				hJ		80		pl yl mi		PR						
BHT-02	158.97				hJ		80		pl yl mi		PR						
BHT-02	159.03				hJ		20		pl yl mi		PR						
BHT-02	159.36				hJ		30		pl yl mi		PR						
BHT-02	159.56				hJ		70		pl yl mi		PR						
BHT-02	159.64				hJ		60		pl yl mi		PR						
BHT-02	159.65				hJ		30		pl yl mi		CU						
BHT-02	159.70				hJ		80		wh mi		PR						
BHT-02	159.78				J		30			CN	PR	RF					
BHT-02	159.82				hJ		90		pl yl mi		PR						
BHT-02	159.84				hJ		50		pl yl mi		PR						
BHT-02	159.89				hJ		70		pl yl mi		PR						
BHT-02	159.97				hJ		50		wh mi		PR						
BHT-02	160.04				hJ		80		wh mi		PR						
BHT-02	160.08				hJ		80		pl yl mi		PR						
BHT-02	160.10				hJ		70		pl yl mi		PR						
BHT-02	160.18				hJ		70		pl yl mi		PR						
BHT-02	160.21				hJ		80		pl yl mi		PR						
BHT-02	160.21				hJ		70		pl yl mi		PR						
BHT-02	160.24				hJ		70		pl yl mi		PR						
BHT-02	160.27				hJ		80		wh mi		PR						
BHT-02	160.31				hJ		70		pl yl mi		PR						
BHT-02	160.36				hJ		70		pl yl mi		PR						
BHT-02	160.66				hJ		90		pl yl mi		PR						
BHT-02	160.90				hJ		80		pl yl mi		PR						
BHT-02	161.34				hJ		50		pl yl mi		PR						
BHT-02	161.88				hJ		30		dk mi		PR						
BHT-02	161.96				hJ		50		pl yl mi		PR						
BHT-02	162.25				hJ		80		wh mi		PR						
BHT-02	162.35				hJ		90		pl gr mi		IR						
BHT-02	162.40				hJ		80		pl gr mi		PR						
BHT-02	162.48				hJ		70		pl gr mi		IR						
BHT-02	162.50				hJ		40		pl gr mi		PR						
BHT-02	162.53				hJ		70		pl gr mi		PR						
BHT-02	162.57				hJ		80		pl gr mi		PR						
BHT-02	162.61				hJ		50		pl gr mi		CU						
BHT-02	162.65				hJ		30		pl gr mi		PR						
BHT-02	162.67				hJ		70		pl gr mi		PR						
BHT-02	162.69				hJ		50		pl gr mi		PR						
BHT-02	162.75				hJ		10		pl gr mi		PR						
BHT-02	162.80				hJ		40		pl gr mi		PR						
BHT-02	162.82				hJ		30		pl gr mi		PR						
BHT-02	162.85				V		40		pl gr mi		PR						
BHT-02	162.87				hJ		60		pl gr mi		PR						
BHT-02	162.96				hJ		30		pl gr mi		PR						
BHT-02	162.98				hJ		40		pl gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	163.04				hJ		20		pl gr mi		PR						
BHT-02	163.07				hJ		20		pl gr mi		IR						
BHT-02	163.08				V		70		pl gr mi		PR		<	3			
BHT-02	163.12				hJ		20		pl gr mi		IR						
BHT-02	163.19				hJ		40		pl gr mi		IR						
BHT-02	163.24				hJ		40		pl gr mi		PR						
BHT-02	163.29				hJ		50		pl gr mi		PR						
BHT-02	163.33				hJs	x2	90		pl gr mi		IR						
BHT-02	163.39				hJ		40		pl gr mi		IR						
BHT-02	163.42				V		70		wh mi		PR						
BHT-02	163.48				hJ		50		pl gr mi		PR						
BHT-02	163.51				hJ		70		pl gr mi		PR						
BHT-02	163.54	163.60			hJs	x4	50		pl gr mi		PR						
BHT-02	163.72				hJ		30		pl gr mi		PR						
BHT-02	163.77				hJ		90		pl gr mi		PR						
BHT-02	163.83	164.30			AZ				wh to pl gr mi		IR					extremely closely	
BHT-02	163.88				hJs	x4	50		wh mi		PR						
BHT-02	163.93				J		30			CN	ST	RF					
BHT-02	164.02	164.12			hJs	x9	50		wh mi		PR						
BHT-02	164.23				J		40			CN	PR	RF					
BHT-02	164.30				J		80			CN	PR	RF					
BHT-02	164.38				hJ		30		pl yl mi		PR						
BHT-02	164.42				V		80		wh mi		PR						
BHT-02	164.45				hJ		30		pl yl mi		PR						
BHT-02	164.46				hJ		70		pl yl mi		PR						
BHT-02	164.50	164.56			hJs	x9	30		wh mi		IR					very closely	
BHT-02	164.67				hJs	x3	70		pl yl mi		PR						
BHT-02	164.75				hJs	x3	30		wh mi		PR						
BHT-02	164.76				J		10			CN	ST	RF					
BHT-02	164.83				hJ		50		pl yl mi		PR						
BHT-02	164.97				hJ		70		pl yl mi		PR						
BHT-02	165.00	165.05			hJs	x3	30		wh mi		PR						
BHT-02	165.15	165.25			hJs	x5	20		wh mi		PR						
BHT-02	165.26				hJ		50		wh mi		PR						
BHT-02	165.53				hJ		60		pl yl mi		PR						
BHT-02	165.56				hJ		60		pl yl mi		IR						
BHT-02	165.60				hJ		60		pl yl mi		PR						
BHT-02	165.66				hJ		50		pl yl mi		IR						
BHT-02	165.70				hJ		70		pl yl mi		IR						
BHT-02	165.74				hJ		40		pl yl mi		CU						
BHT-02	165.84				hJ		40				PR						
BHT-02	165.84				hJ		40		pl yl mi		PR						
BHT-02	165.92				hJ		20		pl yl mi		PR						
BHT-02	165.94				hJ		60		pl yl mi		PR						
BHT-02	166.05				hJ		30		pl yl mi		PR						
BHT-02	166.13				J		0	90		CN	ST	RF					
BHT-02	166.22				hJ		40		pl yl mi		PR						
BHT-02	166.34				hJ		40		pl yl mi		PR						
BHT-02	166.37				V		30		pl yl mi		PR		<	4			
BHT-02	166.43				V		80		pl yl mi		PR		<	3			
BHT-02	166.61				hJ		60		pl yl mi		PR						
BHT-02	166.66				V		67		pl yl mi		PR		<	4			
BHT-02	166.70				hJ		40		pl yl mi		PR						
BHT-02	166.78				hJ		70		pl yl mi		PR						
BHT-02	166.83				hJ		50		pl yl mi		PR						
BHT-02	166.95				V		80		pl yl mi		PR		<	3			
BHT-02	167.03				V		80		pl yl mi		PR		<	3			
BHT-02	167.15				hJ		50		pl yl mi		IR						
BHT-02	167.22				hJ		80		pl yl mi		IR						
BHT-02	167.31				hJ		90		pl yl mi		PR						
BHT-02	167.39				hJ		40		pl yl mi		PR						
BHT-02	167.44				hJ		90		pl yl mi		PR						
BHT-02	167.54				V		80		pl yl mi		PR		<	3			
BHT-02	167.60				hJ		80		pl yl mi		PR						
BHT-02	167.67				hJ		70		pl yl mi		PR						
BHT-02	167.75				hJ		40		pl yl mi		PR						
BHT-02	167.86				V		50		pl yl mi		PR		<	3			
BHT-02	167.92				V		80		pl yl mi		PR		<	2			
BHT-02	167.94				hJ		30		pl yl mi		PR						
BHT-02	168.14				hJ		60		pl yl mi		PR						
BHT-02	168.16				V		60		pl yl mi		PR		<	4			
BHT-02	168.31				hJ		50		pl yl mi		PR						
BHT-02	168.33				hJ		70		pl yl mi		PR						
BHT-02	168.36				hJ		70		pl yl mi		PR						
BHT-02	168.39				hJ		30		pl yl mi		PR						
BHT-02	168.43				hJ		60		pl yl mi		PR						
BHT-02	168.44				V		70		pl yl mi		UN		<	10			
BHT-02	168.45				hJ		30		pl yl mi		PR						
BHT-02	168.46				hJ		30		pl yl mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	168.48				hJ		30		pl yl mi		ST						
BHT-02	168.51				hJ		40		pl yl mi		PR						
BHT-02	168.52				hJ		30		pl yl mi		PR						
BHT-02	168.55				hJ		80		pl yl mi		PR						
BHT-02	168.57				hJ		40		pl yl mi		PR						
BHT-02	168.59				hJ		40		pl yl mi		PR						
BHT-02	168.72				hJ		50		pl yl mi		UN						
BHT-02	168.75				hJ		70		pl yl mi		PR						
BHT-02	168.85				hJ		60		pl yl mi		PR						
BHT-02	168.88				hJ		80		pl yl mi		PR						
BHT-02	168.90				hJ		70		pl yl mi		PR						
BHT-02	168.93				hJ		60		pl yl mi		PR						
BHT-02	169.03				hJ		25		pl yl mi		PR						
BHT-02	169.04				hJ		10		pl yl mi		PR						
BHT-02	169.06				V		80		pl yl mi		PR						
BHT-02	169.08				hJ		70		pl yl mi		PR						
BHT-02	169.09				hJ		70		pl yl mi		PR						
BHT-02	169.14				hJ		80		pl yl mi		UN						
BHT-02	169.14				hJ		80		pl yl mi		UN						
BHT-02	169.19				hJ		30		pl yl mi		PR						
BHT-02	169.22				hJ		50		pl yl mi		PR						
BHT-02	169.27				V		80		pl yl mi		UN			1			
BHT-02	169.29				hJ		20		pl yl mi		PR						
BHT-02	169.30				hJ		20		pl yl mi		PR						
BHT-02	169.44				hJ		80		pl yl mi		UN						
BHT-02	169.45				hJ		75		pl yl mi		PR						
BHT-02	169.45				hJ		70		pl yl mi		PR						
BHT-02	169.49				hJ		40		pl yl mi		PR						
BHT-02	169.51				hJ		80		pl yl mi		PR						
BHT-02	169.54				V				pl yl mi		IR		<	8			
BHT-02	169.55				hJ		30		pl yl mi		UN						
BHT-02	169.56				hJ		50		pl yl mi		UN						
BHT-02	169.57				hJ		50		pl yl mi		UN						
BHT-02	169.59				hJ		0		pl yl mi		IR						
BHT-02	169.59				V		10		pl yl mi		PR			5			
BHT-02	169.60				V		0		pl yl mi		IR			8			
BHT-02	169.63				hJ		70		pl yl mi		UN						
BHT-02	169.63				hJ		80		pl yl mi		PR						
BHT-02	169.63				hJ		50		pl yl mi		PR						
BHT-02	169.63				hJ		40		pl yl mi		PR						
BHT-02	169.64				hJ		10		pl yl mi		UN						
BHT-02	169.65				V		40		pl yl mi		IR			3			possible S
BHT-02	169.67				V		30		pl yl mi		ST			2			
BHT-02	169.68				V		80		pl yl mi		UN		<	4			
BHT-02	169.70				hJ		40		pl yl mi		PR						
BHT-02	169.70				hJ		40		pl yl mi		PR						
BHT-02	169.71				hJ		70		pl yl mi		PR						
BHT-02	169.72				hJ		90		pl yl mi		IR						
BHT-02	169.79				hJ				pl yl mi		CU						
BHT-02	169.81				hJ				pl yl mi		CU						
BHT-02	169.88	169.93			AZ				pl yl mi		IR					extremely closely	
BHT-02	169.89				V		70		pl yl mi		UN		<	4			
BHT-02	169.97				hJ		40		wh and pl yl mi		ST						
BHT-02	170.02				hJ		80		pl gr mi		UN						
BHT-02	170.03				hJ		70		wh mi		PR						
BHT-02	170.03				hJ		30		pl gr mi		UN						
BHT-02	170.04				V		30		pl gr mi		ST		<	7			
BHT-02	170.05				S		90				UN						<5 mm displacement
BHT-02	170.09				V		40		pl gr mi		IR		<	14			
BHT-02	170.09				S		80				UN						<2 mm displacement
BHT-02	170.10				hJ		80		pl gr mi		PR						
BHT-02	170.14				V		60		pl gr mi		PR		<	10			
BHT-02	170.17				hJ		70		pl gr mi		UN						
BHT-02	170.18				hJ		60				IR						
BHT-02	170.19				hJ		70		pl gr mi		UN						
BHT-02	170.20				V		10		pl gr mi		UN			1			
BHT-02	170.21				hJ		20		pl gr mi		PR						
BHT-02	170.21				hJ		35		pl gr mi		PR						
BHT-02	170.26				hJ		20		pl gr mi		PR						
BHT-02	170.29				hJ		30		pl gr mi		PR						
BHT-02	170.31				hJ		40		pl gr mi		PR						
BHT-02	170.41				V		30		pl gr mi		PR		<	5			
BHT-02	170.44				hJ		30		wh mi		UN						
BHT-02	170.47				hJ		60		pl gr mi		UN						
BHT-02	170.50				hJ		80		wh mi		UN						
BHT-02	170.55	170.82			AZ				pl gr and wh mi, possibly qu							extremely closely	veins <10 mm
BHT-02	170.61				hJ		60		pl gr mi		IR						
BHT-02	170.62				hJ		50		pl gr mi		IR						
BHT-02	170.66				V		30		pl gr mi		UN		<	25			inclusions <5 mm



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	170.68				V		20		pl gr mi		UN		<	17			inclusions <5 mm
BHT-02	170.68				hj		70		wh mi, possibly qu		PR						
BHT-02	170.70				V		80		wh mi, possibly qu		UN		<	2			
BHT-02	170.71				V		20		pl gr, wh, and gy mi		UN		<	10			inclusions <5 mm
BHT-02	170.77				hj		50		pl gr mi		PR						
BHT-02	170.79				V		30		wh mi		PR			4			
BHT-02	170.85				V		40		pl gr mi		IR			3			
BHT-02	170.91				hj		80		pl gr mi		UN						
BHT-02	171.08				hj		25		pl yl mi		PR						
BHT-02	171.12				hj		30		pl yl mi		PR						
BHT-02	171.14				hj		50		pl yl mi		PR						
BHT-02	171.19				hj		50		pl yl mi		UN						
BHT-02	171.32				hj		60		pl yl mi		UN						
BHT-02	171.34				hj		50		pl yl mi		PR						
BHT-02	171.36				hj		30		pl yl mi		UN						
BHT-02	171.38				V		30		gy-gr mi		UN		<	4			
BHT-02	171.46				hj				pl yl mi		IR						
BHT-02	171.58				V				gy-gr mi		IR		<	13			rare fragments
BHT-02	171.62				V		30		pl yl mi		UN		<	2			
BHT-02	171.64				hj		60		pl yl mi		PR						
BHT-02	171.66				hj		20		pl yl mi		ST						
BHT-02	171.67				hj		10		pl yl mi		ST						
BHT-02	171.69				hj		30		pl yl mi		PR						
BHT-02	171.69				hJs	x5	50		pl yl mi		PR						10-15 mm spacing
BHT-02	171.70				hJs	x5	70		pl yl mi		PR						5-13 mm spacing
BHT-02	171.77				hj		30		pl yl mi		PR						
BHT-02	171.78				hj		60		pl yl mi		PR						
BHT-02	171.78				hj				pl yl mi		IR						
BHT-02	171.78				hj		60		pl yl mi		UN						
BHT-02	171.78				hj		60		pl yl mi		UN						
BHT-02	171.79				hj		90		pl yl mi		UN						
BHT-02	171.79				hj		50		pl yl mi		UN						
BHT-02	171.80				hj		90		pl yl mi		UN						
BHT-02	171.82				hj		75		pl yl mi		PR						
BHT-02	171.83				hj		90		pl yl mi		UN						
BHT-02	171.85				hj		30		pl yl mi		PR						
BHT-02	171.88				hj		70		pl yl mi		PR						
BHT-02	171.89				hj				pl yl mi		IR						
BHT-02	171.89				hj		60		pl yl mi		UN						
BHT-02	171.91				hj		30		pl yl mi		PR						
BHT-02	171.93				hj		50		pl yl mi		PR						
BHT-02	171.94				hj		40		pl yl mi		PR						
BHT-02	171.95				hj		40		pl yl mi		PR						
BHT-02	171.96				hj		40		pl yl mi		PR						
BHT-02	171.97				hj		50		pl yl mi		PR						
BHT-02	171.98				hj		40		pl yl mi		PR						
BHT-02	171.98				hj		80		pl yl mi		PR						
BHT-02	172.00				hj		10		pl yl mi		PR						
BHT-02	172.01				hj		20		pl yl mi		UN						
BHT-02	172.03				hj		25		pl yl mi		UN						
BHT-02	172.04				hj		10		pl yl mi		PR						
BHT-02	172.04				hj		50		pl yl mi		UN						
BHT-02	172.06				hj		70		pl yl mi		UN						
BHT-02	172.09				hj		65		pl yl mi		PR						
BHT-02	172.10				hj		60		pl yl mi		PR						
BHT-02	172.10				hj		90		pl yl mi		PR						
BHT-02	172.10				hj		50		pl yl mi		PR						
BHT-02	172.11				hj		60		pl yl mi		PR						
BHT-02	172.13				hj		45		pl yl mi		PR						
BHT-02	172.14				hj		45		pl yl mi		PR						
BHT-02	172.15				hj		70		pl yl mi		PR						
BHT-02	172.17				hj		90		pl yl mi		UN						
BHT-02	172.18				hj		50		pl yl mi		PR						
BHT-02	172.20				hj		70		pl yl mi		PR						
BHT-02	172.22				hj		50		pl yl mi		UN						
BHT-02	172.23				hj		0		pl yl mi		PR						
BHT-02	172.24				hj				pl yl mi		UN						
BHT-02	172.25				hj		30		pl yl mi		PR						
BHT-02	172.26				hj		10		pl yl mi		PR						
BHT-02	172.27				hj		30		pl yl mi		UN						
BHT-02	172.28				hj		20		pl yl mi		PR						
BHT-02	172.29				hj		50		pl yl mi		UN						
BHT-02	172.30				hj		90		pl yl mi		UN						
BHT-02	172.32				hj		10		pl yl mi		PR						
BHT-02	172.35				hj		70		pl yl mi		PR						
BHT-02	172.36				hj		70		pl yl mi		UN						
BHT-02	172.37				hj		50		pl yl mi		UN						
BHT-02	172.38				hj		80		pl yl mi		UN						
BHT-02	172.40				hj		40		pl yl mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	172.42				hJ		75		pl yl mi		UN						
BHT-02	172.43				hJ		30		pl yl mi		IR						
BHT-02	172.45				V		40		pl yl mi		UN			5			
BHT-02	172.46				hJ		30		pl yl mi		PR						
BHT-02	172.47				hJ		90		pl yl mi		UN						
BHT-02	172.48				hJ		50		pl yl mi		UN						
BHT-02	172.49				hJ		75		pl yl mi		PR						
BHT-02	172.50				hJ		30		pl yl mi		PR						
BHT-02	172.53				hJ		30		pl yl mi		UN						
BHT-02	172.54				hJ		30		pl yl mi		UN						
BHT-02	172.54				hJ		30		pl yl mi		PR						
BHT-02	172.56				hJ		80		pl yl mi		UN						
BHT-02	172.57				hJ		40		pl yl mi		PR						
BHT-02	172.57				hJ		40		pl yl mi		PR						
BHT-02	172.57				hJ		80		pl yl mi		PR						
BHT-02	172.57				hJ		60		pl yl mi		PR						
BHT-02	172.57				hJ		70		pl yl mi		PR						
BHT-02	172.58				hJ		40		pl yl mi		PR						
BHT-02	172.59				hJ		35		pl yl mi		PR						
BHT-02	172.60				hJ		60		pl yl mi		UN						
BHT-02	172.61				hJ		90		pl yl mi		UN						
BHT-02	172.63				hJ		90		pl yl mi		UN						
BHT-02	172.63				hJ		60		pl yl mi		PR						
BHT-02	172.64				hJ		50		pl yl mi		UN						
BHT-02	172.65				hJ		40		pl yl mi		UN						
BHT-02	172.66				hJ		40		pl yl mi		PR						
BHT-02	172.68				hJ		30		pl yl mi		PR						
BHT-02	172.70				hJ		15		pl yl mi		UN						
BHT-02	172.70				hJ		20		pl yl mi		PR						
BHT-02	172.71				hJ		60		pl yl mi		PR						
BHT-02	172.73				V		55		pl yl mi		PR		<	4			
BHT-02	172.77				hJ		10		pl yl mi		UN						
BHT-02	172.79				hJ		90		pl yl mi		UN						
BHT-02	172.80				hJ		80		pl yl mi		UN						
BHT-02	172.81				hJ		10		pl yl mi		UN						
BHT-02	172.84				hJ		90		pl yl mi		UN						
BHT-02	172.87				V		40		pl yl mi		PR			4			
BHT-02	172.89				hJ				pl yl mi		UN						
BHT-02	172.91				hJ		40		pl yl mi		UN						
BHT-02	172.93				hJ		40		pl yl mi		PR						
BHT-02	172.94				hJ				pl yl mi		UN						
BHT-02	172.95				hJ				pl yl mi		UN						
BHT-02	172.99				hJ		10		pl yl mi		UN						
BHT-02	173.01				hJ		60		pl yl mi		UN						
BHT-02	173.02				hJ		90		pl yl mi		UN						
BHT-02	173.06				hJ		50		pl yl mi		UN						
BHT-02	173.08				hJ		50		pl yl mi		PR						
BHT-02	173.10				hJ		90		pl yl mi		UN						
BHT-02	173.11				hJ		20		pl yl mi		UN						
BHT-02	173.13				hJ		60		pl yl mi		PR						
BHT-02	173.16				hJ		60		pl yl mi		PR						
BHT-02	173.17				hJ		65		pl yl mi		PR						
BHT-02	173.19				hJ		2		pl yl mi		UN						
BHT-02	173.21				hJ		70		pl yl mi		UN						
BHT-02	173.22				hJ		70		pl yl mi		UN						
BHT-02	173.22				hJ		90		pl yl mi		UN						
BHT-02	173.24				hJ		70		pl yl mi		PR						
BHT-02	173.25				hJ		65		pl yl mi		PR						
BHT-02	173.25				hJ		90		pl yl mi		UN						
BHT-02	173.25				hJ		70		pl yl mi		PR						
BHT-02	173.25				hJ		50		pl yl mi		PR						
BHT-02	173.26				hJ		20		pl yl mi		PR						
BHT-02	173.27				hJ		20		pl yl mi		PR						
BHT-02	173.29				hJ		25		pl yl mi		PR						
BHT-02	173.32				hJ		10		pl yl mi		UN						
BHT-02	173.34				hJ		40		pl yl mi		PR						
BHT-02	173.36				hJ		30		pl yl mi		PR						
BHT-02	173.37				hJ		60		pl yl mi		UN						
BHT-02	173.37				hJ		30		pl yl mi		PR						
BHT-02	173.38				hJ		40		pl yl mi		PR						
BHT-02	173.39				hJ		60		pl yl mi		UN						
BHT-02	173.39				hJ		70		wh mi		PR						
BHT-02	173.40				hJ		60		pl yl mi		PR						
BHT-02	173.40				hJ		60		pl yl mi		PR						
BHT-02	173.41				hJ		60		pl yl mi		PR						
BHT-02	173.41				hJ		60		pl yl mi		PR						
BHT-02	173.42				hJ		20		pl yl mi		UN						
BHT-02	173.45				hJ		40		pl yl mi		UN						
BHT-02	173.47				hJ		50		pl yl mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	173.48				hJ		40		pl yI mi		UN						
BHT-02	173.49				hJ		30		pl yI mi		UN						
BHT-02	173.50				hJ		50		pl yI mi		UN						
BHT-02	173.51				hJ		40		pl yI mi		PR						
BHT-02	173.52				hJ		60		pl yI mi		UN						
BHT-02	173.53				hJ		10		pl yI mi		PR						
BHT-02	173.55				hJ		40		pl yI mi		UN						
BHT-02	173.57				hJ		70		pl yI mi		UN						
BHT-02	173.57				hJ				pl yI mi		IR						
BHT-02	173.59				hJ		50		pl yI mi		PR						
BHT-02	173.60				hJ		60		pl yI mi		UN						
BHT-02	173.61				hJ		50		pl yI mi		UN						
BHT-02	173.63				hJ		50		pl yI mi		PR						
BHT-02	173.64				hJ		45		pl yI mi		UN						
BHT-02	173.65				hJ		90		pl yI mi		PR						
BHT-02	173.66				hJ		40		pl yI mi		UN						
BHT-02	173.69				hJ		65		pl yI mi		UN						
BHT-02	173.70				hJ		50		pl yI mi		PR						
BHT-02	173.71				hJ		65		pl yI mi		PR						
BHT-02	173.72				hJ		10		pl yI mi		UN						
BHT-02	173.72				hJ		50		pl yI mi		PR						
BHT-02	173.73				hJ		45		pl yI mi		UN						
BHT-02	173.75				hJ		30		pl yI mi		UN						
BHT-02	173.76				hJ		50		pl yI mi		PR						
BHT-02	173.79				hJ		30		pl yI mi		UN						
BHT-02	173.80				hJ		60		pl yI mi		PR						
BHT-02	173.84				hJ		30		pl yI mi		PR						
BHT-02	173.86				hJ		70		pl yI mi		PR						
BHT-02	173.87				hJ		30		pl yI mi		UN						
BHT-02	173.90				hJ		70		pl yI mi		UN						
BHT-02	173.97				hJ				pl yI mi		IR						
BHT-02	173.98				hJ				pl yI mi		IR						
BHT-02	174.04				V		30		pl yI mi		PR			4			
BHT-02	174.08				hJ		30		pl yI mi		PR						
BHT-02	174.10				hJ		90		pl yI mi		UN						
BHT-02	174.12				hJ		90		pl yI mi		PR						
BHT-02	174.12				hJ		80		pl yI mi		PR						
BHT-02	174.13				hJ		60		pl yI mi		PR						
BHT-02	174.14				hJ		80		pl yI mi		PR						
BHT-02	174.16				V		50		pl yI mi		IR			5			
BHT-02	174.20				hJ		60		pl yI mi		PR						
BHT-02	174.21				hJ		40		pl yI mi		PR						
BHT-02	174.22				hJ		80		pl yI mi		PR						
BHT-02	174.25				hJ		70		pl yI mi		PR						
BHT-02	174.26				hJ		40		pl yI mi		PR						
BHT-02	174.26				hJ		90		pl yI mi		PR						
BHT-02	174.27				hJ		75		pl yI mi		PR						
BHT-02	174.33				hJ		50		pl yI mi		UN						
BHT-02	174.34				hJ		20		pl yI mi		PR						
BHT-02	174.35				hJ		20		pl yI mi		PR						
BHT-02	174.35				hJ		75		pl yI mi		UN						
BHT-02	174.36				hJ		90		pl yI mi		UN						
BHT-02	174.37				hJ		20		pl yI mi		PR						
BHT-02	174.40				hJ		60		pl yI mi		UN						
BHT-02	174.42				hJ		60		pl yI mi		PR						
BHT-02	174.44				hJ		90		pl yI mi		UN						
BHT-02	174.48				hJ		70		pl yI mi		PR						
BHT-02	174.51				hJ		85		pl yI mi		UN						
BHT-02	174.54				hJ		70		pl yI mi		PR						
BHT-02	174.54				hJ		80		pl yI mi		UN						
BHT-02	174.55				hJ		75		pl yI mi		UN						
BHT-02	174.56				hJ		10		pl yI mi		UN						
BHT-02	174.58				hJ		20		pl yI mi		PR						
BHT-02	174.59				hJ		60		pl yI mi		UN						
BHT-02	174.60				hJ		30		pl yI mi		PR						
BHT-02	174.61				hJ		30		pl yI mi		PR						
BHT-02	174.62				hJ		30		pl yI mi		PR						
BHT-02	174.65				hJ		60		pl yI mi		UN						
BHT-02	174.65				hJ		50		pl yI mi		UN						
BHT-02	174.65				hJ		80		pl yI mi		UN						
BHT-02	174.65				hJ		90		pl yI mi		UN						
BHT-02	174.66				hJ		90		pl yI mi		UN						
BHT-02	174.68				V		70		pl yI mi		UN		<	2			
BHT-02	174.71				hJ		80		pl yI mi		PR						
BHT-02	174.74				hJ		90		pl yI mi		UN						
BHT-02	174.77				hJ		40		pl yI mi		PR						
BHT-02	174.81				hJ		60		pl yI mi		UN						
BHT-02	174.82				hJ		60		pl yI mi		UN						
BHT-02	174.83				hJ		60		pl yI mi		IR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	174.88				hJ		20		pl yL mi		IR						
BHT-02	174.90				hJ		10		pl yL mi		IR						
BHT-02	174.91				hJ		10		pl yL mi		PR						
BHT-02	174.92				hJ		10		pl yL mi		UN						
BHT-02	174.92				hJ		80		pl yL mi		PR						
BHT-02	174.95				hJ		90		pl yL mi		UN						
BHT-02	174.96				hJ		10		pl yL mi		PR						
BHT-02	174.98				hJ		90		pl yL mi		IR						
BHT-02	175.02				hJ				pl yL mi		IR						
BHT-02	175.06				hJ		35		pl yL mi		UN						
BHT-02	175.10				hJ				pl yL mi		IR						
BHT-02	175.11				hJ				pl yL mi		IR						
BHT-02	175.12				hJ		80		pl yL mi		UN						
BHT-02	175.16				hJ		85		pl yL mi		UN						
BHT-02	175.19				hJ		55		pl yL mi		PR						
BHT-02	175.28				hJ		90		pl yL mi		UN						
BHT-02	175.29				hJ		90		pl yL mi		UN						
BHT-02	175.30				hJ		75		pl yL mi		UN						
BHT-02	175.36				hJ		40		pl yL mi		UN						
BHT-02	175.37				hJ		80		pl yL mi		UN						
BHT-02	175.38				hJ		90		pl yL mi		UN						
BHT-02	175.39				hJ		30		pl yL mi		PR						
BHT-02	175.44				hJ		10		pl yL mi		PR						
BHT-02	175.47				hJ		10		pl yL mi		UN						
BHT-02	175.48				hJ		10		pl yL mi		UN						
BHT-02	175.49				hJ		80		pl yL mi		UN						
BHT-02	175.49				hJ		90		pl yL mi		UN						
BHT-02	175.51				hJ				pl yL mi		IR						
BHT-02	175.52				hJ		80		pl yL mi		UN						
BHT-02	175.53				hJ		10		pl yL mi		PR						
BHT-02	175.54				hJ		60		pl yL mi		UN						
BHT-02	175.55				hJ		80		pl yL mi		UN						
BHT-02	175.59				hJ		60		pl yL mi		UN						
BHT-02	175.61				hJ		80		pl yL mi		UN						
BHT-02	175.64				hJ		70		pl yL mi		UN						
BHT-02	175.65				hJ		80		pl yL mi		UN						
BHT-02	175.66				hJ		80		pl yL mi		UN						
BHT-02	175.75				hJ		80		pl yL mi		UN						
BHT-02	175.75				hJ		70		pl yL mi		UN						
BHT-02	175.76				hJ		90		pl yL mi		UN						
BHT-02	175.80				hJ		50		pl yL mi		PR						
BHT-02	175.84				hJ		75		pl yL mi		UN						
BHT-02	175.86				hJ		20		pl yL mi		UN						
BHT-02	175.86				hJ		20		pl yL mi		UN						
BHT-02	175.88				hJ		30		pl yL mi		PR						
BHT-02	175.91				hJ		40		pl yL mi		PR						
BHT-02	175.96				hJ		90		pl yL mi		UN						
BHT-02	176.04				CO						UN						
BHT-02	176.05				hJ		30		pl yL mi		PR						
BHT-02	176.07				hJ		60		pl yL mi		UN						
BHT-02	176.10				hJ		30		pl yL mi		PR						
BHT-02	176.11				hJ		60		pl yL mi		UN						
BHT-02	176.12				hJ		80		pl yL mi		UN						
BHT-02	176.13				hJ		80		pl yL mi		UN						
BHT-02	176.14				V		70		wh mi		PR			1			
BHT-02	176.15				V		70		wh mi		PR		<	2			
BHT-02	176.19				hJ		40		pl yL mi		PR						
BHT-02	176.20				V		50		pl yL mi		PR			7			
BHT-02	176.21				hJ		40		pl yL mi		PR						
BHT-02	176.23				V		40		pl yL mi		PR			1			
BHT-02	176.25				S						PR						4 mm displacement
BHT-02	176.26				V		75		pl yL mi		PR		<	3			
BHT-02	176.27				V		80		pl yL mi		UN		<	3			
BHT-02	176.31				hJ		30		pl yL mi		PR						
BHT-02	176.33				hJ		30		pl yL mi		PR						
BHT-02	176.34				hJ		90		pl yL mi		UN						
BHT-02	176.35				hJ		80		pl yL mi		PR						
BHT-02	176.42				V		70		pl yL mi		PR			1			
BHT-02	176.55				V		35		pl yL mi		PR			2			
BHT-02	176.64				hJ		90		pl yL mi		UN						
BHT-02	176.73				hJ		60		pl yL mi		PR						
BHT-02	176.75				V		65		pl yL mi		UN		<	4			
BHT-02	176.86				V				pl yL mi		UN		<	2			
BHT-02	176.92				hJ		90		pl yL mi		UN						
BHT-02	176.93				hJ		80		pl yL mi		UN						
BHT-02	176.96				V		40		bk and pl yL mi		PR		<	2			
BHT-02	176.97				hJ		40		pl yL mi		PR						
BHT-02	177.04				V		80		pl yL mi		PR		<	2			
BHT-02	177.07				hJ		60		pl yL mi		UN						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	177.10				V		90		pl y l mi		UN			1			
BHT-02	177.15				hJ		40		pl y l mi		PR						
BHT-02	177.16				hJ		20		pl y l mi		ST						
BHT-02	177.20				hJ				pl y l mi		IR						
BHT-02	177.22				hJ				pl y l mi		IR						
BHT-02	177.23				hJ				pl y l mi		IR						
BHT-02	177.24				hJ				pl y l mi		IR						
BHT-02	177.26				hJ		40		pl y l mi		PR						
BHT-02	177.32				hJ		40		pl y l mi		PR						
BHT-02	177.34				hJ		50		pl y l mi		UN						
BHT-02	177.36				hJ		40		pl y l mi		PR						
BHT-02	177.37				hJ		40		pl y l mi		PR						
BHT-02	177.39				hJ		40		pl y l mi		PR						
BHT-02	177.42				hJ				pl y l mi		IR						
BHT-02	177.43				hJ		70		pl y l mi		PR						
BHT-02	177.44				hJ		0		pl y l mi		UN						
BHT-02	177.45				hJ		30		pl y l mi		UN						
BHT-02	177.46				hJ		50		pl y l mi		PR						
BHT-02	177.47				hJ				pl y l mi		UN						
BHT-02	177.48				hJ		40		pl y l mi		PR						
BHT-02	177.49				hJ		60		pl y l mi		UN						
BHT-02	177.49				hJ		80		pl y l mi		UN						
BHT-02	177.50				CO		40				PR						
BHT-02	177.52				hJ		85		pl y l mi		UN						
BHT-02	177.57				V				pl y l mi		IR		<	2			
BHT-02	177.61				hJ		80		pl y l mi		UN						
BHT-02	177.65				hJ		45		pl y l mi		PR						
BHT-02	177.75				hJ		20		pl y l mi		PR						
BHT-02	177.79				hJ		60		pl y l mi		PR						
BHT-02	177.86				hJ		80		pl y l mi		UN						
BHT-02	177.92				hJ		80		pl y l mi		UN						
BHT-02	177.92				hJ		70		pl y l mi		UN						
BHT-02	177.93				hJ		20		pl y l mi		PR						
BHT-02	177.94				hJ		70		pl y l mi		PR						
BHT-02	177.95				hJ		80		pl y l mi		PR						
BHT-02	177.96				hJ		70		pl y l mi		PR						
BHT-02	178.08				hJ		50		pl y l mi		PR						
BHT-02	178.12				hJ		70		pl y l mi		UN						
BHT-02	178.13				V		80		pl y l mi		UN						
BHT-02	178.16				hJ		80		pl y l mi		UN						
BHT-02	178.17				hJ		90		pl y l mi		UN						
BHT-02	178.18				hJ		70		pl y l mi		UN						
BHT-02	178.23				hJ		90		pl y l mi		UN						
BHT-02	178.23				hJ		90		pl y l mi		UN						
BHT-02	178.30				V		60		pl y l mi		PR			1			
BHT-02	178.33				V				pl y l mi		IR		<	2			
BHT-02	178.34				V				pl y l mi		IR		<	3			
BHT-02	178.38				V		80		pl y l mi		UN		<	5			
BHT-02	178.39				hJ		90		pl y l mi		UN						
BHT-02	178.42				hJ		85		pl y l mi		UN						
BHT-02	178.45				hJ		70		pl y l mi		PR						
BHT-02	178.52				hJ		80		pl y l mi		UN						
BHT-02	178.52				V		80		pl y l mi		UN			1			
BHT-02	178.60				V		70		pl y l mi		PR			3			
BHT-02	178.66				hJ		70		pl y l mi		UN						
BHT-02	178.68				hJ		60		pl y l mi		UN						
BHT-02	178.69				V		90		pl y l mi		UN		<	2			
BHT-02	178.71				V		90		pl y l mi		UN		<	2			
BHT-02	178.88				V		40		pl y l mi		UN			1			
BHT-02	178.93				V				pl y l mi		IR		<	10			
BHT-02	179.01				hJ		50		pl y l mi		PR						
BHT-02	179.03				hJ		40		pl y l mi		PR						
BHT-02	179.06				hJ		80		pl y l mi		UN						
BHT-02	179.06				hJ		60		pl y l mi		PR						
BHT-02	179.07				hJ		60		pl y l mi		UN						
BHT-02	179.08				hJ		40		pl y l mi		PR						
BHT-02	179.09				hJ				pl y l mi		IR						
BHT-02	179.10				hJ		60		pl y l mi		UN						
BHT-02	179.11				hJ		80		pl y l mi		PR						
BHT-02	179.12				hJ		80		pl y l mi		PR						
BHT-02	179.14				hJ		70		pl y l mi		PR						
BHT-02	179.16				hJ		80		pl y l mi		IR						
BHT-02	179.18				hJ		20		pl y l mi		PR						
BHT-02	179.24				hJ		80		pl y l mi		CI						
BHT-02	179.24				hJ		70		pl y l mi		UN						
BHT-02	179.26				hJ		80		pl y l mi		PR						
BHT-02	179.27				hJ		80		pl y l mi		UN						
BHT-02	179.38				hJ		80		pl y l mi		UN						
BHT-02	179.53				hJ		50		pl y l mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	179.57				hJ		70		pl yI mi		PR						
BHT-02	179.58				hJ		50		pl yI mi		PR						
BHT-02	179.59				hJ				pl yI mi		IR						
BHT-02	179.61				hJ				pl yI mi		IR						
BHT-02	179.62				hJ		35		pl yI mi		PR						
BHT-02	179.78				hJ		70		pl yI mi		PR						
BHT-02	179.78				hJ		70		pl yI mi		PR						
BHT-02	179.78				hJ		80		pl yI mi		PR						
BHT-02	179.79				hJ		70		pl yI mi		PR						
BHT-02	179.83				hJ		70		pl yI mi		UN						
BHT-02	179.89				hJ		50		pl yI mi		PR						
BHT-02	180.09				hJ		80		pl yI mi		UN						
BHT-02	180.12				hJ		75		wh mi		UN						
BHT-02	180.15				hJ		75		pl yI mi		PR						
BHT-02	180.22				V				pl yI mi		IR		<	4			
BHT-02	180.23				hJ		75		wh mi		UN						
BHT-02	180.24				hJ		70		pl yI mi		UN						
BHT-02	180.30				hJ		80		pl yI mi		UN						
BHT-02	180.35				hJ		75		wh mi		PR						
BHT-02	180.36				hJ		20		pl yI mi		UN						
BHT-02	180.41				hJ		75		pl yI mi		UN						
BHT-02	180.41				hJ		80		pl yI mi		PR						
BHT-02	180.44				hJ		70		pl yI mi		PR						
BHT-02	180.50				hJ		55		pl yI mi		PR						
BHT-02	180.54				hJ		60		pl yI mi		PR						
BHT-02	180.56				hJ		30		pl yI mi		UN						
BHT-02	180.57				hJ		50		pl yI mi		PR						
BHT-02	180.65				hJ		60		pl yI mi		PR						
BHT-02	180.73				hJ		30		pl yI mi		PR						
BHT-02	180.74				hJ		60		pl yI mi		UN						
BHT-02	180.76				hJ		30		pl yI mi		PR						
BHT-02	180.77				hJ				pl yI mi		IR						
BHT-02	180.78	180.82			V		30	50	pl gy-gr mi		PR		<	34			
BHT-02	180.83				hJ		60		pl yI mi		UN						
BHT-02	180.85				hJ		20		pl yI mi		UN						
BHT-02	180.93				hJ		50		pl yI mi		UN						
BHT-02	180.96				hJ		0		pl yI mi		UN						
BHT-02	180.97				hJ		80		pl yI mi		UN						
BHT-02	181.05				V		50		pl yI mi		PR		<	10			
BHT-02	181.08				hJ		55		pl yI mi		PR						
BHT-02	181.13				V		60		pl yI mi		PR		<	2			
BHT-02	181.14				hJ		40		pl yI mi		PR						
BHT-02	181.17				hJ		70		pl yI mi		PR						
BHT-02	181.18				hJ		40		pl yI mi		PR						
BHT-02	181.19				hJ		50		pl yI mi		PR						
BHT-02	181.21				hJ		60		pl yI mi		PR						
BHT-02	181.22				hJ		40		pl yI mi		PR						
BHT-02	181.28				hJ		70		pl yI mi		PR						
BHT-02	181.30				hJ		70		pl yI mi		PR						
BHT-02	181.32				hJ		70		pl yI mi		PR						
BHT-02	181.33				hJ		30		pl yI mi		PR						
BHT-02	181.34				hJ		40		pl yI mi		PR						
BHT-02	181.34				hJ		55		pl yI mi		PR						
BHT-02	181.36				hJ		40		pl yI mi		PR						
BHT-02	181.39				hJ				pl yI mi		IR						
BHT-02	181.42				hJ		85		pl yI mi		PR						
BHT-02	181.43				hJ		30		pl yI mi		PR						
BHT-02	181.43				hJ		80		pl yI mi		UN						
BHT-02	181.44				V		20		pl yI mi		UN		<	5			
BHT-02	181.47				hJ		60		pl yI mi		PR						
BHT-02	181.48				V		90		pl yI mi		PR			2			
BHT-02	181.50				hJ		40		pl yI mi		PR						
BHT-02	181.51				hJ		70		pl yI mi		PR						
BHT-02	181.52				hJ		60		pl yI mi		UN						
BHT-02	181.54				hJ		55		pl yI mi		PR						
BHT-02	181.55				hJ		40		pl yI mi		PR						
BHT-02	181.56				hJ		50		pl yI mi		PR						
BHT-02	181.57				hJ		20		pl yI mi		PR						
BHT-02	181.58				hJ		25		pl yI mi		UN						
BHT-02	181.59				hJ		60		pl yI mi		PR						
BHT-02	181.59				hJ		60		pl yI mi		PR						
BHT-02	181.60				hJ		30		pl yI mi		PR						
BHT-02	181.65				hJ		60		pl yI mi		UN						
BHT-02	181.67				hJ		50		pl yI mi		PR						
BHT-02	181.69				hJ		50		pl yI mi		UN						
BHT-02	181.71				hJ		60		pl yI mi		PR						
BHT-02	181.71				hJ		60		pl yI mi		PR						
BHT-02	181.72				hJ		60		pl yI mi		PR						
BHT-02	181.73				hJ		50		pl yI mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	181.76				hJ		60		pl yl mi		UN						
BHT-02	181.78				hJ		55		pl yl mi		UN						
BHT-02	181.82				hJ		60		pl yl mi		UN						
BHT-02	181.84				hJ		40		pl yl mi		PR						
BHT-02	181.85				hJ		50		pl yl mi		PR						
BHT-02	181.86				hJ		50		pl yl mi		PR						
BHT-02	181.87				hJ		40		gy mi		PR						
BHT-02	181.91				V		50		pl yl mi		UN		<	3			
BHT-02	181.94				hJ		80		pl yl mi		UN						
BHT-02	181.95				hJ		35		pl yl mi		PR						
BHT-02	181.98				V		60		pl yl mi		PR						
BHT-02	182.02				hJ		40		pl yl mi		PR						
BHT-02	182.03				hJ		40		pl yl mi		IR						
BHT-02	182.05				hJ		30		pl yl mi		PR						
BHT-02	182.06				hJ		60		pl yl mi		PR						
BHT-02	182.07				hJ		60		pl yl mi		PR						
BHT-02	182.08				hJ		40		pl yl mi		PR						
BHT-02	182.11				hJ		85		pl gy mi		PR						
BHT-02	182.15				V		50		pl yl mi		PR			7			
BHT-02	182.18				V		40		pl yl mi		PR		<	2			
BHT-02	182.21				hJ		70		pl yl mi		UN						
BHT-02	182.22				hJ		70		pl yl mi		UN						
BHT-02	182.26				hJ		70		pl yl mi		UN						
BHT-02	182.27				hJ		60		pl yl mi		PR						
BHT-02	182.34				V		70		pl yl mi		PR		<	3			
BHT-02	182.37				V		70		pl yl mi		PR			1			
BHT-02	182.39				hJ		70		pl yl mi		PR						
BHT-02	182.43				hJ		50		pl yl mi		PR						
BHT-02	182.52				hJ		60		pl yl mi		PR						
BHT-02	182.56				hJ		40		pl yl mi		UN						
BHT-02	182.58				hJ				pl yl mi		IR						
BHT-02	182.58				hJ				pl yl mi		IR						
BHT-02	182.59				hJ		90		pl yl mi	CN	UN	RF					possible DB
BHT-02	182.59				hJ		50		pl yl mi		UN		<	3			
BHT-02	182.63				hJ		50		pl yl mi		PR						
BHT-02	182.64				V		90		pl gr-yl mi		IR		<	10			
BHT-02	182.65				hJ		50		pl yl mi		PR						
BHT-02	182.66				hJ		50		pl yl mi		PR						
BHT-02	182.73				J		0		pl yl mi		UN						
BHT-02	182.76				V		70		pl yl mi		UN						
BHT-02	182.85				hJ		40		pl yl mi		UN						
BHT-02	182.92				J		10		pl yl mi	CN	UN	VR					possible DB
BHT-02	187.02				hJ		70		pl yl mi		UN						
BHT-02	187.02				hJ		80		pl yl mi		UN						
BHT-02	187.03				hJ		50		pl yl mi		UN						
BHT-02	187.04				hJ		50		pl yl mi		UN						
BHT-02	187.06				V		10		pl yl mi		PR		<	2			
BHT-02	187.07				hJ		70		pl yl mi		PR						
BHT-02	187.09				V		20		pl yl mi		UN			1			
BHT-02	187.14				V		15		pl yl mi		UN		<	5			
BHT-02	187.16				hJ		80		pl yl mi		UN						
BHT-02	187.16				V				pl yl mi		IR			1			
BHT-02	187.18				hJ		30		pl yl mi		PR						
BHT-02	187.20				V		30		pl yl mi		PR			3			
BHT-02	187.25				hJ		20		pl yl mi		PR						
BHT-02	187.27				V		50		pl yl mi		PR		<	2			
BHT-02	187.28				hJ				pl yl mi		UN						
BHT-02	187.33				hJ				pl yl mi		UN						
BHT-02	187.35				V		55		pl yl mi		PR		<	5			
BHT-02	187.37				hJ		60		pl yl mi		IR						
BHT-02	187.38				hJ		90		pl yl mi		IR						
BHT-02	187.39				hJ		20		pl yl mi		IR						
BHT-02	187.44				hJ		30		pl yl mi		UN						
BHT-02	187.45				V		30		pl yl mi		UN		<	2			
BHT-02	187.51				hJ		80		pl yl mi		UN						
BHT-02	187.53				hJ		80		pl yl mi		UN						
BHT-02	187.54				hJ		5		pl yl mi		UN						
BHT-02	187.59				hJ		80		pl yl mi		PR						
BHT-02	187.60				hJ		0		pl yl mi		PR						
BHT-02	187.62				hJ		5		pl yl mi		UN						
BHT-02	187.63				hJ		90		pl yl mi		UN						
BHT-02	187.65				hJ		20		pl yl mi		UN						
BHT-02	187.65				hJ		5		pl yl mi		UN						
BHT-02	187.70				hJ		10		pl yl mi		PR						
BHT-02	187.70				V		20		pl yl mi		PR			4			
BHT-02	187.78				hJ		60		pl yl mi		UN						
BHT-02	187.80				hJ		90		pl yl mi		UN						
BHT-02	187.82				hJ		60		pl yl mi		IR						
BHT-02	187.83				hJ		50		pl yl mi		IR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	187.88				hJ		60		pl yl mi		PR						
BHT-02	187.89				hJ		40		pl yl mi		PR						
BHT-02	187.91				hJ		80		pl yl mi		PR						
BHT-02	187.94				hJ		60		pl yl mi		PR						
BHT-02	187.95				hJ		40		pl yl mi		PR						
BHT-02	188.01				hJ		90		pl yl mi		UN						
BHT-02	188.02				hJ		40		pl yl mi		UN						
BHT-02	188.02				hJ		0		pl yl mi		UN						
BHT-02	188.02				hJ		80		pl yl mi		UN						
BHT-02	188.06				hJ		20		pl yl mi		UN						
BHT-02	188.07				hJ		20		pl yl mi		UN						
BHT-02	188.08				hJ		80		pl yl mi		PR						
BHT-02	188.09				hJ		80		pl yl mi		UN						
BHT-02	188.13				hJ		20		pl yl mi		UN						
BHT-02	188.20				hJ		80		pl yl mi		UN						
BHT-02	188.30				V		85		pl yl mi		PR		<	2			
BHT-02	188.35				hJ		60		pl yl mi		PR						
BHT-02	188.42				V		30		pl yl mi		UN		<	3			
BHT-02	188.42				J		30		pl gr mi	CT	UN	SM					possible DB, possible SL?
BHT-02	188.45				V		50		pl yl mi								
BHT-02	188.46				hJ		20		pl yl mi								
BHT-02	188.47				hJ		40		pl yl mi								
BHT-02	188.51				hJ		70		pl yl mi								
BHT-02	188.52				hJ		30		pl yl mi								
BHT-02	188.57				hJ		30		pl yl mi								
BHT-02	188.59				hJ		90		pl yl mi								
BHT-02	188.61				hJ		80		pl yl mi								
BHT-02	188.65				hJ		60		pl yl mi								
BHT-02	188.71				hJ		50		pl yl mi								
BHT-02	188.75				hJ		40		pl yl mi								
BHT-02	188.76				hJ		40		pl yl mi								
BHT-02	188.87				hJ		40		pl yl mi								
BHT-02	188.89				hJ		30		pl yl mi								
BHT-02	188.92				hJ		20		pl yl mi								
BHT-02	188.94				hJ		50		pl yl mi								
BHT-02	189.02				hJ		30		pl yl mi								
BHT-02	189.04				hJ		0		pl yl mi								
BHT-02	189.05				hJ		80		pl yl mi								
BHT-02	189.06				hJ		30		pl yl mi								
BHT-02	189.08				hJ		60		pl yl mi								
BHT-02	189.12				hJ		20		pl yl mi								
BHT-02	189.14				hJ		20		pl yl mi								
BHT-02	189.16				hJ		60		pl yl mi								
BHT-02	189.19				hJ		90		pl yl mi								
BHT-02	189.23				hJ		0		pl yl mi								
BHT-02	189.26				hJ		5		pl yl mi								
BHT-02	189.32				hJ		50		pl yl mi								
BHT-02	189.34				hJ		10		pl yl mi								
BHT-02	189.38				V				pl yl mi								
BHT-02	189.39				V		40		pl yl mi								
BHT-02	189.40				V		40		pl yl mi								
BHT-02	189.43				hJ		30		pl yl mi								
BHT-02	189.45				hJ		10		pl yl mi								
BHT-02	189.45				hJ		10		pl yl mi								
BHT-02	189.48				V		40		pl yl mi								
BHT-02	189.52				hJ		90		pl yl mi								
BHT-02	189.53				hJ		30		pl yl mi								
BHT-02	189.53				hJ		90		pl yl mi								
BHT-02	189.53				hJ		90		pl yl mi								
BHT-02	189.56				V		10		pl yl mi								
BHT-02	189.62				V		10		pl yl mi								
BHT-02	189.63				V		10		pl gy mi								
BHT-02	189.65				V		0		pl yl mi								
BHT-02	189.67				hJ		0		pl yl mi								
BHT-02	189.67				S				pl yl mi								
BHT-02	189.68				hJ		5		pl yl mi								
BHT-02	189.68				hJ		5		pl yl mi								
BHT-02	189.69				hJ		40		pl yl mi								
BHT-02	189.69				hJ		30		pl yl mi								
BHT-02	189.71				hJ		10		pl yl mi								
BHT-02	189.72				hJ		10		pl yl mi								
BHT-02	189.73				hJ		10		pl yl mi								
BHT-02	189.73				hJ		30		pl yl mi								
BHT-02	189.74				hJ		10		pl yl mi								
BHT-02	189.75				hJ		10		pl yl mi								
BHT-02	189.76				hJ		10		pl yl mi								
BHT-02	189.77				hJ		10		pl yl mi								
BHT-02	189.80				hJ		20		bk mi								<2 mm pl yl halo
BHT-02	189.81				hJ				pl yl mi		CU						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	189.84				V		20		pl yl mi								
BHT-02	189.85				hJ		5		pl yl mi								
BHT-02	189.86				hJ		10		pl yl mi								
BHT-02	189.87				hJ		10		pl yl mi								
BHT-02	189.88				hJ		30		pl yl mi								
BHT-02	189.88				hJ		30		pl yl mi								
BHT-02	189.89				hJ		60		pl yl mi								
BHT-02	189.89				hJ		70		pl yl mi								
BHT-02	189.90				hJ		30		pl yl mi								
BHT-02	189.91				hJ		50		pl yl mi								
BHT-02	189.91				hJ		0		pl yl mi								
BHT-02	189.92				V		0		pl yl mi								
BHT-02	189.93				V		10		pl yl mi								
BHT-02	189.95				hJ				pl yl mi		IR						
BHT-02	189.95				V		10		pl yl mi								
BHT-02	189.98				hJ				pl yl mi		IR						
BHT-02	190.01				V		10		pl yl mi								
BHT-02	190.04				hJ		60		pl yl mi								
BHT-02	190.05				hJ		70		pl yl mi								
BHT-02	190.06				hJ		30		pl yl mi								
BHT-02	190.06				hJ		30		pl yl mi								
BHT-02	190.07				hJ		20		pl yl mi								
BHT-02	190.09				hJ		70		pl yl mi								
BHT-02	190.10				hJ		50		pl yl mi								
BHT-02	190.11				hJ		70		pl yl mi								
BHT-02	190.12				hJ		70		wh mi								
BHT-02	190.13				hJ		80		pl yl mi								
BHT-02	190.15				hJ		40		pl yl mi								
BHT-02	190.21				hJ		30		pl yl mi								
BHT-02	190.22				hJ		50		pl yl mi								
BHT-02	190.27				hJ		60		pl yl mi								
BHT-02	190.28				hJ		30		pl yl mi								
BHT-02	190.31				hJ		70		pl yl mi								
BHT-02	190.33				hJ		90		pl yl mi								
BHT-02	190.35				hJ		30		pl yl mi								
BHT-02	190.36				hJ		30		pl yl mi								
BHT-02	190.38				hJ		90		pl yl mi								
BHT-02	190.46				V		10		pl yl mi								
BHT-02	190.51				hJ		10		pl yl mi								
BHT-02	190.52				hJ		30		pl yl mi								
BHT-02	190.53				hJ		10		pl yl mi								
BHT-02	190.54				hJ		30		pl yl mi								
BHT-02	190.55				hJ		30		pl yl mi								
BHT-02	190.58				V				pl yl mi		UN						
BHT-02	190.64				V		30		pl yl mi								
BHT-02	190.65				hJ		60		pl yl mi								
BHT-02	190.66				hJ		80		pl yl mi								
BHT-02	190.67				hJ		80		pl yl mi								
BHT-02	190.69				hJ		70		pl yl mi								
BHT-02	190.70				hJ		40		pl yl mi								
BHT-02	190.71				hJ		40		pl yl mi								
BHT-02	190.72				hJ		60		pl yl mi								
BHT-02	190.74				hJ		10		pl yl mi								
BHT-02	190.75				hJ		70		pl yl mi								
BHT-02	190.76				hJ		70		pl yl mi								
BHT-02	190.78				hJ		60		pl yl mi								
BHT-02	190.83				hJ		60		pl yl mi								
BHT-02	190.86				hJ		80		pl yl mi								
BHT-02	190.87				hJ		20		pl yl mi								
BHT-02	190.90				hJ		70		pl yl mi								
BHT-02	190.90				hJ		90		pl yl mi								
BHT-02	190.91				hJ		5		pl yl mi								
BHT-02	190.94				hJ		50		pl yl mi								
BHT-02	190.96				V		25		pl yl mi								
BHT-02	190.98				V		50		pl yl mi								
BHT-02	191.01				V		60		pl yl-gr mi		PR		<	3			
BHT-02	191.03				hJ		50		pl yl-gr mi		UN						
BHT-02	191.03				hJ		90		pl yl-gr mi		UN						
BHT-02	191.06				hJ		50		pl yl-gr mi		UN						
BHT-02	191.07				hJ		70		pl yl-gr mi		UN						
BHT-02	191.08				hJ		80		pl yl-gr mi		UN						
BHT-02	191.16				V		20		pl yl-gr mi		PR			1			
BHT-02	191.17				hJ		50		pl yl-gr mi		PR						
BHT-02	191.20				hJ		40		pl yl-gr mi		PR						
BHT-02	191.21				hJ		40		pl yl-gr mi		PR						
BHT-02	191.26				hJ				pl yl-gr mi		UN						
BHT-02	191.30				hJ		40		pl yl-gr mi		PR						
BHT-02	191.31				hJ		90		pl yl-gr mi		PR						
BHT-02	191.32				hJ		45		pl yl-gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	191.34				hJ		40		pl ylt-gr mi		PR						
BHT-02	191.35				hJ		40		pl ylt-gr mi		PR						
BHT-02	191.36				hJ		90		pl ylt-gr mi		PR						
BHT-02	191.39				hJ		20		pl ylt-gr mi		PR						
BHT-02	191.49				V		40		pl ylt-gr mi		PR		<	6			
BHT-02	191.52				V		40		pl ylt-gr mi		PR		<	3			
BHT-02	191.53				V		40		pl ylt-gr mi		UN		<	3			
BHT-02	191.59				V		40		pl ylt-gr mi		PR		<	3			
BHT-02	191.60				V		5		pl ylt-gr mi		PR		<	3			
BHT-02	191.62				V		60		pl ylt-gr mi		UN			1			
BHT-02	191.65				hJ		50		pl ylt-gr mi		PR						
BHT-02	191.67				hJ				pl ylt-gr mi		UN						
BHT-02	191.68				hJ				pl ylt-gr mi		UN						
BHT-02	191.70				hJ				pl ylt-gr mi		IR						
BHT-02	191.71				hJ		70		pl ylt-gr mi		PR						
BHT-02	191.72				V		40		pl ylt-gr mi		PR		<	2			
BHT-02	191.73				hJ		80		pl ylt-gr mi		PR						
BHT-02	191.74				hJ		80		pl ylt-gr mi		PR						
BHT-02	191.78				hJ		85		pl ylt-gr mi		PR						
BHT-02	191.79				hJ		90		pl ylt-gr mi		PR						
BHT-02	191.82				hJ				pl ylt-gr mi		IR						
BHT-02	191.86				hJ		50		pl ylt-gr mi		UN						
BHT-02	191.87				hJ		50		pl ylt-gr mi		UN						
BHT-02	191.88				hJ		60		pl ylt-gr mi		UN						
BHT-02	191.90				hJ		50		pl ylt-gr mi		UN						
BHT-02	191.92				hJ		70		pl ylt-gr mi		UN						
BHT-02	191.93				hJ		55		pl ylt-gr mi		PR						
BHT-02	191.94				hJ		40		pl ylt-gr mi		UN						
BHT-02	191.97				hJ		70		pl ylt-gr mi		UN						
BHT-02	192.05				hJ		20		pl ylt-gr mi		PR						
BHT-02	192.06				hJ		30		pl ylt-gr mi		UN						
BHT-02	192.09				hJ		70		pl ylt-gr mi		PR						
BHT-02	192.10				hJ		50		pl ylt-gr mi		UN						
BHT-02	192.14				V		20		pl ylt-gr mi		PR		<	3			
BHT-02	192.16				hJ		0		pl ylt-gr mi		UN						
BHT-02	192.17				V		10		pl ylt-gr mi		PR		<	2			
BHT-02	192.18				hJ		70		pl ylt-gr mi		UN						
BHT-02	192.19				hJ		80		pl ylt-gr mi		UN						
BHT-02	192.20				hJ		30		pl ylt-gr mi		PR						
BHT-02	192.23				V		85		pl ylt-gr mi		UN		<	3			
BHT-02	192.25				V		30		pl ylt-gr mi		PR		<	2			
BHT-02	192.26				hJ		60		pl ylt-gr mi		PR						
BHT-02	192.28				hJ		20		pl ylt-gr mi		UN						
BHT-02	192.33				hJ		40		pl ylt-gr mi		PR						
BHT-02	192.33				hJ		60		pl ylt-gr mi		UN						
BHT-02	192.37				hJ		20		pl ylt-gr mi		UN						
BHT-02	192.38				hJ		20		pl ylt-gr mi		UN						
BHT-02	192.39				hJ		30		pl ylt-gr mi		PR						
BHT-02	192.40				hJ				pl ylt-gr mi		IR						
BHT-02	192.43				hJ		10		pl ylt-gr mi		PR						
BHT-02	192.52				hJ				pl ylt-gr mi		UN						
BHT-02	192.62				hJ		40		pl ylt-gr mi		PR						
BHT-02	192.63				hJ		90		pl ylt-gr mi		UN						
BHT-02	192.65				hJ				pl ylt-gr mi		UN						
BHT-02	192.67				hJ		90		pl ylt-gr mi		UN						
BHT-02	192.68				hJ		60		pl ylt-gr mi		PR						
BHT-02	192.69				hJ		90		pl ylt-gr mi		UN						
BHT-02	192.72				hJ		85		pl ylt-gr mi		PR						
BHT-02	192.73				hJ		60		pl ylt-gr mi		PR						
BHT-02	192.74				hJ		85		pl ylt-gr mi		PR						
BHT-02	192.75				hJ		20		pl ylt-gr mi		PR						
BHT-02	192.79				hJ		85		pl ylt-gr mi		UN						
BHT-02	192.84				hJ		60		pl ylt-gr mi		PR						
BHT-02	192.86				hJ		80		pl ylt-gr mi		PR						
BHT-02	192.88				hJ		20		pl ylt-gr mi		PR						
BHT-02	192.90				hJ		20		pl ylt-gr mi		PR						
BHT-02	192.92				hJ		30		pl ylt-gr mi		PR						
BHT-02	192.93				hJ		30		pl ylt-gr mi		UN						
BHT-02	192.94				hJ		30		pl ylt-gr mi		PR						
BHT-02	192.97				hJ		90		pl ylt-gr mi		UN						
BHT-02	193.02				hJ				pl ylt-gr mi		IR						
BHT-02	193.03				hJ		80		pl ylt-gr mi		UN						
BHT-02	193.04				hJ		90		pl ylt-gr mi		UN						
BHT-02	193.06				hJ		80		pl ylt-gr mi		UN						
BHT-02	193.08				hJ		40		pl ylt-gr mi		PR						
BHT-02	193.10				hJ				pl ylt-gr mi		IR						
BHT-02	193.11				hJ		20		pl ylt-gr mi		PR						
BHT-02	193.12				hJ		20		pl ylt-gr mi		PR						
BHT-02	193.13				hJ		80		pl ylt-gr mi		UN						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	193.18				hJ		15		pl yl-gr mi		PR						
BHT-02	193.19				hJ		80		pl yl-gr mi		UN						
BHT-02	193.20				V		80		pl yl-gr mi		PR		<	2			
BHT-02	193.28				V		40		pl yl-gr mi		IR		<	3			
BHT-02	193.29				hJ		60		pl yl-gr mi		UN						
BHT-02	193.30				hJ		60		pl yl-gr mi		UN						
BHT-02	193.30				hJ		60		pl yl-gr mi		UN						
BHT-02	193.35				hJ				pl yl-gr mi		UN						
BHT-02	193.38				V		90		pl yl-gr mi		IR		<	5			
BHT-02	193.40				hJ		40		pl yl-gr mi		UN						
BHT-02	193.44				V		90		pl yl-gr mi		UN		<	5			
BHT-02	193.49				hJ		90		pl yl-gr mi		UN						
BHT-02	193.50				hCS	?	75		pl yl-gr mi		UN		<	10			some angular fragments <10 mm
BHT-02	193.50				hJ		50		pl yl-gr mi		UN						
BHT-02	193.52				hJ		30		pl yl-gr mi		UN						
BHT-02	193.53				hJ		60		pl yl-gr mi		PR						
BHT-02	193.60				hJ		40		pl yl-gr mi		PR						
BHT-02	193.65				hJ		40		pl yl-gr mi		PR						
BHT-02	193.66				hJ		0		pl yl-gr mi		UN						
BHT-02	193.72				hJ		10		pl yl-gr mi		UN						
BHT-02	193.73				hJ		60		pl yl-gr mi		UN						
BHT-02	193.73				hJ		70		pl yl-gr mi		PR						
BHT-02	193.74				hJ		20		pl yl-gr mi		PR						
BHT-02	193.79				hJ		40		pl yl-gr mi		PR						
BHT-02	193.82				hJ		50		pl yl-gr mi		UN						
BHT-02	193.83				hJ		40		pl yl-gr mi		PR						
BHT-02	193.85				hJ		80		pl yl-gr mi		UN						
BHT-02	193.88				V		40		pl yl-gr mi		PR			1			
BHT-02	193.88				hJ				pl yl-gr mi		UN						
BHT-02	193.89				hJ		70		pl yl-gr mi		UN						
BHT-02	193.92				hJ		60		pl yl-gr mi		PR						
BHT-02	193.94				hJ		85		pl yl-gr mi		UN						
BHT-02	193.97				hJ		40		pl yl-gr mi		PR						
BHT-02	194.02				V		20		pl yl-gr mi		IR		<	2			
BHT-02	194.07				V		60		pl yl-gr mi		UN		<	2			
BHT-02	194.11				V		60		pl yl-gr mi		UN			1			
BHT-02	194.16				V		60		pl yl-gr mi		UN		<	3			
BHT-02	194.17				V		60		pl yl-gr mi		UN		<	3			
BHT-02	194.21				V		60		pl yl-gr mi		UN		<	3			
BHT-02	194.24				hJ		75		pl yl-gr mi		UN						
BHT-02	194.28				hJ		60		pl yl-gr mi		UN						
BHT-02	194.29				hJ		80		pl yl-gr mi		UN						
BHT-02	194.31				V		60		pl yl-gr mi		UN		<	3			
BHT-02	194.33				hJ		50		pl yl-gr mi		UN						
BHT-02	194.35				hJ		40		pl yl-gr mi		UN						
BHT-02	194.36				hJ		50		pl yl-gr mi		PR						
BHT-02	194.37				hJ				pl yl-gr mi		IR						
BHT-02	194.41				V		50		pl gy-gr mi		UN			1			
BHT-02	194.44				V		45		pl yl-gr mi		UN						
BHT-02	194.47				hJ		40		pl yl-gr mi		UN						
BHT-02	194.48				V		50		pl yl-gr mi		PR						
BHT-02	194.48				hJ		40		pl yl-gr mi		PR						
BHT-02	194.54				hJ		30		pl yl-gr mi		UN						
BHT-02	194.55				V		40		pl yl-gr mi		PR			2			
BHT-02	194.58				hJ		30		pl yl-gr mi		UN						
BHT-02	194.64				V		60		pl yl-gr mi		PR			8			
BHT-02	194.66				V		50		pl yl-gr mi		UN			2			
BHT-02	194.68				hJ		40		pl yl-gr mi		UN						
BHT-02	194.72				hJ		90		pl yl-gr mi		PR						
BHT-02	194.73				hJ		70		pl yl-gr mi		PR						
BHT-02	194.73				hJ		70		pl yl-gr mi		PR						
BHT-02	194.73				hJ		90		pl yl-gr mi		PR						
BHT-02	194.75				hJ		70		pl yl-gr mi		UN						
BHT-02	194.79				V		30		pl yl-gr mi		UN		<	2			
BHT-02	194.81				hJ		70		pl yl-gr mi		UN						
BHT-02	194.82				hJ		60		pl yl-gr mi		UN						
BHT-02	194.87				hJ				pl yl-gr mi		IR						
BHT-02	194.90				hJ				pl yl-gr mi		IR						
BHT-02	194.90				hJ		70		pl yl-gr mi		UN						
BHT-02	194.90				hJ		50		pl yl-gr mi		UN						
BHT-02	194.91				hJ				pl yl-gr mi		UN						
BHT-02	194.92				hJ		50		pl yl-gr mi		PR						
BHT-02	194.95				hJ		50		pl yl-gr mi		PR						
BHT-02	194.97				hJ		0		pl yl-gr mi		IR		<	5			
BHT-02	194.98				hJ		60		pl yl-gr mi		UN						
BHT-02	195.01				hJ		20		pl yl mi		UN						
BHT-02	195.04				J		20			CN	UN	RF					possible DB
BHT-02	195.06				V		35		pl yl mi		UN		<	3			
BHT-02	195.07				hJ		60		pl yl mi		UN						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	195.17				hJ		60		pl y/l mi		UN						
BHT-02	195.17				hJ		90		pl y/l mi		UN						
BHT-02	195.19				hJ		60		pl y/l mi		UN						
BHT-02	195.24				hJ				pl y/l mi		IR						
BHT-02	195.26				hJ				pl y/l mi		IR						
BHT-02	195.33				hJ		50		pl y/l mi		UN						
BHT-02	195.36				hJ		10		pl y/l mi		PR						
BHT-02	195.37				hJ		10		pl y/l mi		PR						
BHT-02	195.40				hJ		10		pl y/l mi		PR						
BHT-02	195.41				hJ		30		pl y/l mi		UN						
BHT-02	195.42				hJ		10		pl y/l mi		PR						
BHT-02	195.44				hJ		70		bk and wh mi		PR						
BHT-02	195.51				hJ		50		pl y/l mi		PR						
BHT-02	195.52				hJ		30		pl y/l mi		PR						
BHT-02	195.52				hJ		30		pl y/l mi		PR						
BHT-02	195.55				hJ		25		pl y/l mi		UN						
BHT-02	195.57				hJ		85		pl y/l mi		UN						
BHT-02	195.59				hJ		15		pl y/l mi		PR						
BHT-02	195.61				hJ		20		pl y/l mi		IR						
BHT-02	195.64				hJ		10		pl y/l mi		IR						
BHT-02	195.67				hJ				pl y/l mi		IR						
BHT-02	195.68				hJ		10		pl y/l mi		UN						
BHT-02	195.71				hJ		30		pl y/l mi		PR						
BHT-02	195.74				V		20		pl y/l mi		UN		<	3			
BHT-02	195.75				hJ		20		pl y/l mi		UN						
BHT-02	195.77				hJ		20		pl y/l mi		UN						
BHT-02	195.77				hJ		90		pl y/l mi		UN						
BHT-02	195.78				hJ		90		pl y/l mi		PR						
BHT-02	195.78				hJ		40		pl y/l mi		PR						
BHT-02	195.79				hJ		60		pl y/l mi		PR						
BHT-02	195.80				hJ		90		pl y/l mi		UN						
BHT-02	195.81				hJ		0		pl y/l mi		UN						
BHT-02	195.83				hJ				pl y/l mi		UN						
BHT-02	195.87				V		45		pl y/l mi		UN		<	5			
BHT-02	195.89				V		60		pl y/l mi		UN		<	4			
BHT-02	195.91				hJ				pl y/l mi		UN						
BHT-02	195.94				hJ				pl y/l mi		UN						
BHT-02	195.96				hJ		5		pl y/l mi		UN						
BHT-02	195.98				hJ				pl y/l mi		IR						
BHT-02	195.99				hJ		60		pl y/l mi		PR						
BHT-02	196.00				hJ		60		pl y/l mi		PR						
BHT-02	196.02				hJ		50		pl y/l mi		UN						
BHT-02	196.03				hJ				pl y/l mi		IR						
BHT-02	196.05				hJ		15		pl y/l mi		UN						
BHT-02	196.08				hJ		50		pl y/l mi		PR						
BHT-02	196.10				hJ		60		pl y/l mi		PR						
BHT-02	196.11				hJ		50		bk mi		PR						
BHT-02	196.12				V		30		pl y/l mi		PR		<	9			
BHT-02	196.15				V		60		pl y/l mi		UN		<	2			
BHT-02	196.18				hJ		50		pl y/l mi		PR						
BHT-02	196.19				hJ		20		pl y/l mi		PR						
BHT-02	196.20				hJ		30		pl y/l mi		PR						
BHT-02	196.21				hJ		20		pl y/l mi		PR						
BHT-02	196.22				V		0		pl y/l mi		UN		<	5			
BHT-02	196.22				V		20		pl y/l mi		UN		<	9			
BHT-02	196.24				hJ		20		pl y/l mi		PR						
BHT-02	196.26				V		20		pl y/l mi		PR		<	2			
BHT-02	196.28				hJ		10		pl y/l mi		UN						
BHT-02	196.30				hJ		30		pl y/l mi		UN						
BHT-02	196.31				hJ		20		pl y/l mi		PR						
BHT-02	196.33				hJ		90		pl y/l mi		PR						
BHT-02	196.34				hJ		0		pl y/l mi		UN						
BHT-02	196.38				hJ		10		pl y/l mi		UN						
BHT-02	196.39				V		20		pl y/l mi		PR		<	5			
BHT-02	196.40				hJ		20		pl y/l mi		UN						
BHT-02	196.43				hJ		20		pl y/l mi		UN						
BHT-02	196.44				hJ		40		pl y/l mi		UN						
BHT-02	196.45				hJ		30		pl y/l mi		UN						
BHT-02	196.48				V		30		pl y/l mi		UN		<	10			
BHT-02	196.53				hJ		5		pl y/l mi		UN						
BHT-02	196.54				V		5		pl y/l mi		UN		<	10			
BHT-02	196.58				hJ		0		pl y/l mi		UN						
BHT-02	196.60				hJ		0		pl y/l mi		UN						
BHT-02	196.61				hJ				pl y/l mi		IR						
BHT-02	196.64				V				pl y/l mi		IR		<	5			
BHT-02	196.66				V				pl y/l mi		IR		<	7			
BHT-02	196.68				V		20		pl y/l mi		IR		<	3			
BHT-02	196.78				hJ		30		pl y/l mi		UN						
BHT-02	196.82				hJ		30		pl y/l mi		UN						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	196.85				hJ		0		pl yI mi		UN						
BHT-02	196.86				hJ		30		pl yI mi		PR						
BHT-02	196.87				hJ		40		pl yI mi		UN						
BHT-02	196.88				hJ		30		pl yI mi		UN						
BHT-02	196.90				hJ				pl yI mi		UN						
BHT-02	196.91				hJ				pl yI mi		UN						
BHT-02	196.92				hJ				pl yI mi		UN						
BHT-02	196.93				V		20		pl yI mi		UN		<	7			
BHT-02	196.95				hJ				pl yI mi		IR						
BHT-02	196.98				hJ				pl yI mi		IR						
BHT-02	197.04				V				pl yI mi		IR		<	5			
BHT-02	197.04				V				pl yI mi		IR		<	7			
BHT-02	197.10				V				pl yI mi		IR		<	5			
BHT-02	197.12				V				pl yI mi		IR		<	3			
BHT-02	197.15				hJ		20		pl yI mi		UN						
BHT-02	197.16				hJ		90		pl yI mi		PR						
BHT-02	197.18				hJ				pl yI mi		IR						
BHT-02	197.19				hJ		30		pl yI mi		IR						
BHT-02	197.20				hJ		20		pl yI mi		IR						
BHT-02	197.22				V				pl yI mi		IR		<	3			
BHT-02	197.23				hJ		30		pl yI mi		UN						
BHT-02	197.25				hJ				pl yI mi		IR						
BHT-02	197.27				hJ		5		pl yI mi		IR						
BHT-02	197.28				V				pl yI mi		IR		<	3			
BHT-02	197.29				V		30		pl yI mi		UN		<	3			
BHT-02	197.30				J		40		pl yI mi	CN	PR	RF					
BHT-02	197.35				hJ				pl yI mi		UN						
BHT-02	197.36				hJ		50		pl yI mi		UN						
BHT-02	197.36				hJ		20		pl yI mi		UN						
BHT-02	197.39				hJ		45		pl yI mi		PR						
BHT-02	197.39				hJ		90		pl yI mi		PR						
BHT-02	197.41				hJ		30		pl yI mi		IR						
BHT-02	197.45				V				pl yI mi		IR		<	20			
BHT-02	197.47				J		20			CN	PR	SM					
BHT-02	197.53				hJ		20		wh mi		UN						
BHT-02	197.55				hJ		20		pl yI mi		UN						
BHT-02	197.58				hJ		80		pl yI mi		IR						
BHT-02	197.60				hJ		60		pl yI mi		IR						
BHT-02	197.62				hJ		50		pl yI mi		IR						
BHT-02	197.66				V				pl yI mi		IR		<	10			
BHT-02	197.71				hJ		50		pl yI mi		UN						
BHT-02	197.74				hJ		60		pl yI mi		IR						
BHT-02	197.78				hJ		30		pl yI mi		PR						
BHT-02	197.79				hJ		90		pl yI mi		UN						
BHT-02	197.80				hJ		30		pl yI mi		PR						
BHT-02	197.81				V		20		pl yI mi		PR		<	3			
BHT-02	197.83				hJ				pl yI mi		UN						
BHT-02	197.93				V		40		pl yI mi		PR		<	12			
BHT-02	197.95				J		40			CN	PR	RF					
BHT-02	197.97				hJ		20		pl yI mi		PR						
BHT-02	198.01				hJ		40		pl yI mi		PR						
BHT-02	198.03				V		20		pl yI mi		UN			1			
BHT-02	198.07				hJ		80		pl yI mi		PR						
BHT-02	198.08				hJ		50		pl yI mi		PR						
BHT-02	198.09				hJ		80		pl yI mi		UN						
BHT-02	198.11				hJ		40		pl yI mi		UN						
BHT-02	198.13				hJ		30		pl yI mi		PR						
BHT-02	198.15				hJ		0		pl yI mi		PR						
BHT-02	198.16				hJ		90		pl yI mi		PR						
BHT-02	198.17				hJ		50		pl yI mi		PR						
BHT-02	198.19				hJ				pl yI mi		IR						
BHT-02	198.22				hJ		90		pl yI mi		UN						
BHT-02	198.23				hJ				pl yI mi		IR						
BHT-02	198.26				V		50		pl yI mi		PR		<	4			
BHT-02	198.38				V		20		pl yI mi		UN		<	3			
BHT-02	198.41				hJ		30		pl yI mi		PR						
BHT-02	198.43				hJ		40		pl yI mi		IR						
BHT-02	198.46				hJ				pl yI mi		IR						
BHT-02	198.48				hJ		70		pl yI mi		PR						
BHT-02	198.52				hJ		50		pl yI mi		PR						
BHT-02	198.53				hJ		60		pl yI mi		UN						
BHT-02	198.56				hJ		50		pl yI mi		PR						
BHT-02	198.58				hJ		10		pl yI mi		UN						
BHT-02	198.59				hJ		50		pl yI mi		UN						
BHT-02	198.60				V		40		pl yI mi		UN		<	8			
BHT-02	198.64				hJ		50		pl yI mi		PR						
BHT-02	198.67				hJ		60		pl yI mi		PR						
BHT-02	198.68				hJ		60		pl yI mi		PR						
BHT-02	198.72				hJ		50		pl yI mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	198.72				hJ		30		pl yl mi		PR						
BHT-02	198.73				hJ		60		pl yl mi		PR						
BHT-02	198.76				hJ		60		pl yl mi		PR						
BHT-02	198.78				hJ		20		pl yl mi		PR						
BHT-02	198.79				CO	/V	45		pl yl mi		PR			1			
BHT-02	198.79	198.97			Vs	/hJs			pl yl mi		IR		<	2			
BHT-02	198.84				hJ		60		pl yl mi		UN						
BHT-02	199.06				J		80		pl yl mi		PR						
BHT-02	199.24				V				pl yl mi		IR		<	3			
BHT-02	199.26				HB		20		pl yl mi		PR						
BHT-02	199.34				V				pl yl mi		IR			1			
BHT-02	199.40				V				pl yl mi		IR			1			
BHT-02	199.42				hJ				pl yl mi		IR						
BHT-02	199.43				hJ				pl yl mi		IR						
BHT-02	199.45				hJ				pl yl mi		IR						
BHT-02	199.47				hJ				pl yl mi		CU						
BHT-02	199.51				hJ		60		pl yl mi		PR						
BHT-02	199.52				hJ		60		pl yl mi		PR						
BHT-02	199.53				hJ		70		pl yl mi		PR						
BHT-02	199.55				hJ		60		pl yl mi		PR						
BHT-02	199.57				hJ		60		pl yl mi		PR						
BHT-02	199.62				hJ		40		pl yl mi		PR						
BHT-02	199.64				hJ		50		pl yl mi		PR						
BHT-02	199.65				hJ				pl yl mi		IR						
BHT-02	199.66				hJ		50		pl yl mi		PR						
BHT-02	199.67				hJ		50		pl yl mi		UN						
BHT-02	199.68				hJ		90		pl yl mi		IR						
BHT-02	199.70				CO				pl yl-gr mi		UN						
BHT-02	199.72				hJ		20		pl yl-gr mi		UN						
BHT-02	199.73				hJ		40		pl yl-gr mi		PR						
BHT-02	199.76				hJ		50		pl yl-gr mi		PR						
BHT-02	199.79				hJ		40		pl yl-gr mi		PR						
BHT-02	199.80				hJ		90		pl yl-gr mi		PR						
BHT-02	199.84				hJ		40		pl yl-gr mi		PR						
BHT-02	199.86				hJ		30		pl yl-gr mi		PR						
BHT-02	199.90				hJ		30		pl yl-gr mi		UN						
BHT-02	199.92				hJ		20		pl yl-gr mi		PR						
BHT-02	199.95				hJ		60		pl yl-gr mi		PR						
BHT-02	199.98				hJ		40		pl yl-gr mi		PR						
BHT-02	200.06				V		70		pl yl-gr mi		IR		<	15			
BHT-02	200.09				V		30		pl yl-gr mi		PR		<	2			
BHT-02	200.12				hJ		30		pl yl-gr mi		PR						
BHT-02	200.13				hJ		20		pl yl-gr mi		PR						
BHT-02	200.17				hJ		60		pl yl-gr mi		PR						
BHT-02	200.21				hJ		40		pl yl-gr mi		PR						
BHT-02	200.23				hJ				pl yl-gr mi		IR						
BHT-02	200.24				hJ				pl yl-gr mi		IR						
BHT-02	200.25				hJ		20		pl yl-gr mi		UN						
BHT-02	200.26				hJ		90		pl yl-gr mi		PR						
BHT-02	200.27				hJ		70		pl yl-gr mi		PR						
BHT-02	200.29				hJ		40		pl yl-gr mi		IR						
BHT-02	200.31				hJ		40		pl yl-gr mi		PR						
BHT-02	200.33				hJ				pl yl-gr mi		IR						
BHT-02	200.38				hJ		50		pl yl-gr mi		PR						
BHT-02	200.39				hJ		20		pl yl-gr mi		UN						
BHT-02	200.42				hJ		30		pl yl-gr mi		PR						
BHT-02	200.43				hJ		40		bk mi		PR						
BHT-02	200.45				hJ		20		bk mi		PR						
BHT-02	200.47				hJ		40		bk mi		PR						
BHT-02	200.49				hJ				pl yl-gr mi		UN						
BHT-02	200.51				hJ				pl yl-gr mi		IR						
BHT-02	200.53				hJ		50		pl yl-gr mi		PR						
BHT-02	200.54				hJ				bk mi		IR						
BHT-02	200.55				hJ				bk mi		IR						
BHT-02	200.56				hJ				bk mi		IR						
BHT-02	200.58				hJ				bk mi		IR						
BHT-02	200.64				hJ		70		pl yl-gr mi		UN						
BHT-02	200.67				hJ		30		pl yl-gr mi		PR						
BHT-02	200.71				hJ		40		pl yl-gr mi		PR						
BHT-02	200.74				V		50		pl yl-gr mi		PR		<	8			
BHT-02	200.77				V		50		pl yl-gr mi		PR		<	5			
BHT-02	200.80				hJ		40		pl yl-gr mi		UN						
BHT-02	200.88				hJ		85		pl yl-gr mi		UN						
BHT-02	200.92				hJ		60		pl yl-gr mi		UN						
BHT-02	200.94				hJ		60		pl yl-gr mi		UN						
BHT-02	200.97				hJ		80		pl yl-gr mi		UN						
BHT-02	201.03				hJ		90		pl yl-gr mi		UN						
BHT-02	201.13				hJs	x5	90		pl yl-gr mi		UN						
BHT-02	201.20				V		90		pl yl mi		IR		<	3			

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Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	201.32				V		80		pl yl mi		IR		<	3			
BHT-02	201.33				V		80		pl yl mi		UN		<	7			
BHT-02	201.35				V		65		pl yl mi		PR		<	7			
BHT-02	201.40				hJ		75		pl yl mi		PR						
BHT-02	201.45				hJ		50		pl yl mi		UN						
BHT-02	201.48				hJ		35		pl yl mi		PR						
BHT-02	201.51				hJ		90		pl yl mi		PR						
BHT-02	201.53				hJ		60		pl yl mi		PR						
BHT-02	201.59				hJ		40		pl yl mi		UN						
BHT-02	201.61				hJ		60		pl yl mi		UN						
BHT-02	201.63				hJ		70		pl yl mi		UN						
BHT-02	201.63				hJ		90		pl yl mi		UN						
BHT-02	201.64				hJ		50		pl yl mi		UN						
BHT-02	201.67				hJ		70		pl yl mi		PR						
BHT-02	201.67				hJ		50		pl yl mi		PR						
BHT-02	201.69				hJ		40		pl yl mi		PR						
BHT-02	201.75				hJ		70		pl yl mi		PR						
BHT-02	201.77				hJ		80		pl yl mi		PR						
BHT-02	201.78				V		40		pl yl mi		PR		<	2			
BHT-02	201.84				hJ		80		pl yl mi		UN						
BHT-02	201.87				hJ		40		pl yl mi		PR						
BHT-02	201.88				V		60		pl yl mi		PR		<	2			
BHT-02	201.94				hJ		70		pl yl mi		PR						
BHT-02	202.02				hJ		40		pl yl mi		PR						
BHT-02	202.05				hJ		60		pl yl mi		PR						
BHT-02	202.07				hJ		50		pl yl mi		PR						
BHT-02	202.11				V		75		pl yl mi		PR		<	8			
BHT-02	202.13				V		30		pl yl mi		PR		<	2			
BHT-02	202.18				hJ		40		pl yl mi		IR						
BHT-02	202.24				hJ		65		pl yl mi		UN						
BHT-02	202.25				V		60		pl yl mi		UN		<	9			
BHT-02	202.28				hJ		60		pl yl mi		UN						
BHT-02	202.35				hJ		70		pl yl mi		PR						
BHT-02	202.40				hJ		40		pl yl mi		PR						
BHT-02	202.43				V		75		pl yl mi		UN		<	7			some quartz crystals
BHT-02	202.48				hJ		30		pl yl mi		UN						
BHT-02	202.49				hJ		75		pl yl mi		UN						
BHT-02	202.50				hJ		90		pl yl mi		UN						
BHT-02	202.53																decreasing frequency of healed joints and veins
BHT-02	202.63				hJ		10		pl yl mi		PR						
BHT-02	202.81				hJ		50		pl yl mi		UN						
BHT-02	202.92				hJ		10		pl yl mi		PR						
BHT-02	203.11				hJ		60		pl yl mi		PR						
BHT-02	203.13				hJ		10		pl yl mi		PR						
BHT-02	203.15																increasing frequency of healed joints and veins
BHT-02	203.17				V		50		pl yl mi		UN						
BHT-02	203.18				hJ		20		pl yl mi		PR						
BHT-02	203.18				hJ		5		pl yl mi		PR						
BHT-02	203.20				hJ		80		pl yl mi		UN						
BHT-02	203.22				hJ		20		pl yl mi		PR						
BHT-02	203.30				hJ		40		pl yl mi		PR						
BHT-02	203.33				hJ		30		pl yl mi								
BHT-02	203.36				hJ		50		pl yl mi		PR						
BHT-02	203.38				hJ		50		pl yl mi		UN						
BHT-02	203.39				hJ		80		pl yl mi		PR						
BHT-02	203.39				hJ		80		pl yl mi		UN						
BHT-02	203.44				hJ		60		pl yl mi		PR						
BHT-02	203.46				hJ		60		pl yl mi		UN						
BHT-02	203.50				hJ		0		pl yl mi		UN						
BHT-02	203.51				hJ		5		pl yl mi		PR						
BHT-02	203.52				hJ		70		bk mi		PR						
BHT-02	203.56				hJ		60		pl yl mi		PR						
BHT-02	203.57				V		60		pl yl mi		PR						
BHT-02	203.61				V				pl yl mi		IR						
BHT-02	203.64				hJ		0		pl yl mi		UN						
BHT-02	203.66				hJ		30		pl yl mi		PR						
BHT-02	203.76				hJ		60		pl yl mi		PR						
BHT-02	203.82				hJ				pl yl mi		UN						
BHT-02	203.83				hJ		80		pl yl mi		PR						
BHT-02	203.93				hJ		70		pl yl mi		PR						
BHT-02	203.96				hJ		70		pl yl mi		PR						
BHT-02	204.02				hJ		10		pl yl mi		PR						
BHT-02	204.06				hJ		75		pl yl mi		PR						
BHT-02	204.09				hJ		20		pl yl mi		PR						
BHT-02	204.10				hJ		80		pl yl mi		PR						
BHT-02	204.15				hJ		10		pl yl mi		PR						
BHT-02	204.17				hJ		70		pl yl mi		PR						
BHT-02	204.20				hJ		5		pl yl mi		UN						
BHT-02	204.23				hJ		70		pl yl mi		PR						



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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	204.26				hJ		5		pl yl mi		UN						
BHT-02	204.31				hJ		10		pl yl mi		PR						
BHT-02	204.32				hJ		20		pl yl mi		PR						
BHT-02	204.37				hJ		70		pl yl mi		PR						
BHT-02	204.38				hJ		80		pl yl mi		PR						
BHT-02	204.43				hJ		10		pl yl mi		PR						
BHT-02	204.45				hJ		10		pl yl mi		PR						
BHT-02	204.46				hJ		90		pl yl mi		UN						
BHT-02	204.49				hJ		10		pl yl mi		PR						
BHT-02	204.51				hJ		30		pl yl mi		UN						
BHT-02	204.53				hJ		40		pl yl mi		PR						
BHT-02	204.59				hJ		60		pl yl mi		PR						
BHT-02	204.60				hJ		20		pl yl mi		PR						
BHT-02	204.61				hJ		40		pl yl mi		PR						
BHT-02	204.63				hJ		50		pl yl mi		PR						
BHT-02	204.64				hJ		60		pl yl mi		PR						
BHT-02	204.65				hJ		90		pl yl mi		PR						
BHT-02	204.78				hJ		10		pl yl mi		PR						
BHT-02	204.81				hJ		30		pl yl mi		PR						
BHT-02	204.82				hJ		70		pl yl mi		PR						
BHT-02	204.88				hJ		70		pl yl mi		PR						
BHT-02	204.90				hJ		60		pl yl mi		PR						
BHT-02	204.93				hJ		60		pl yl mi		UN						
BHT-02	204.94				hJ		60		pl yl mi		UN						
BHT-02	205.01				hJ		60		pl yl mi		PR						
BHT-02	205.02				hJ		50		pl yl mi		PR						
BHT-02	205.07				hJ		50		pl yl mi		PR						
BHT-02	205.11				hJ		70		pl yl mi		PR						
BHT-02	205.13				hJ		70		pl yl mi		PR						
BHT-02	205.16				hJ		50		pl yl mi		PR						
BHT-02	205.17				hJ		80		pl yl mi		IR						
BHT-02	205.20				hJ		80		pl yl mi		PR						
BHT-02	205.21				hJ		30		pl yl mi		PR						
BHT-02	205.23				hJ		50		pl yl mi		PR						
BHT-02	205.25				hJ		60		pl yl mi		PR						
BHT-02	205.30				hJ		20		pl yl mi		PR						
BHT-02	205.34				hJ		0		pl yl mi		UN						
BHT-02	205.35				hJ		70		pl yl mi		PR						
BHT-02	205.38				hJ		70		pl yl mi		PR						
BHT-02	205.39				hJ		60		pl yl mi		PR						
BHT-02	205.40				hJ		80		pl yl mi		PR						
BHT-02	205.42				hJ		60		pl yl mi		PR						
BHT-02	205.57				hJ		90		pl yl mi		UN						
BHT-02	205.59				hJ		85		pl yl mi		PR						
BHT-02	205.63				hJ		60		pl yl mi		PR						
BHT-02	205.66				hJ		50		pl yl mi		PR						
BHT-02	205.67				hJ		40		pl yl mi		PR						
BHT-02	205.70				hJ		60		pl yl mi		PR						
BHT-02	205.72				hJ		40		pl yl mi		PR						
BHT-02	205.73				hJ		80		pl yl mi		PR						
BHT-02	205.73				hJ		85		pl yl mi		UN						
BHT-02	205.83				hJ		60		pl yl mi		PR						
BHT-02	205.87				hJ		50		pl yl mi		PR						
BHT-02	205.92				hJ		50		pl yl mi		CU						
BHT-02	205.94				hJ		60		pl yl mi		PR						
BHT-02	205.96				hJ		50		pl yl mi		UN						
BHT-02	206.04				hJ		60		pl yl mi		PR						
BHT-02	206.09				V		40		pl yl mi		UN						
BHT-02	206.11				J		10	85	pl yl mi	CN	ST	RF					
BHT-02	206.12				J		40		pl yl mi		PR						incipient
BHT-02	206.13				hJ		40		pl yl mi		PR						
BHT-02	206.14				hJ		70		pl yl mi		PR						
BHT-02	206.17				hJ		80		bk mi		PR						
BHT-02	206.25				hJ		40		pl yl mi		UN						
BHT-02	206.26				hJ		70		bk and pl yl mi		PR						
BHT-02	206.42				V		70		pl yl mi		PR						
BHT-02	206.43				hJ		30		pl yl mi		PR						
BHT-02	206.45				hJ		30		bk mi		PR						
BHT-02	206.47				hJ		0		pl yl mi		PR						
BHT-02	206.49				hJ		90		pl yl mi		UN						
BHT-02	206.50				hJ		60		pl yl mi		PR						
BHT-02	206.56				hJ		60		pl gr to wh mi		PR						
BHT-02	206.61				hJ		60		pl yl mi		PR						
BHT-02	206.65				hJ		60		pl yl mi		UN						
BHT-02	206.68				hJ		30		pl yl mi		PR						
BHT-02	206.69				hJ		40		pl yl mi		PR						
BHT-02	206.72				hJ		40		pl yl mi		PR						
BHT-02	206.74				hJ		50		pl gr to wh mi		PR						
BHT-02	206.80				hJ		20		pl yl mi		PR						

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Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	206.85				hJ		30		pl yl mi		PR						
BHT-02	206.88				hJ				pl yl mi		IR						
BHT-02	206.92				hJ		40		pl yl mi		PR						
BHT-02	206.93				hJ		40		pl yl mi		PR						
BHT-02	206.96				hJ		60		pl yl mi		PR						
BHT-02	206.98				hJ		40		pl yl mi		PR						
BHT-02	207.01				hJ		50		pl yl-gr mi		PR						
BHT-02	207.02				hJ		50		pl yl-gr mi		PR						
BHT-02	207.04				hJ		20		pl yl-gr mi		PR						
BHT-02	207.07				hJ		50		pl yl-gr mi		PR						
BHT-02	207.12				hJ		60		pl yl-gr mi		PR						
BHT-02	207.13				hJ		40		pl yl-gr mi		PR						
BHT-02	207.19				hJ		50		pl yl-gr mi		UN						
BHT-02	207.22				hJ		70		pl yl-gr mi		UN						
BHT-02	207.23				hJ		50		pl yl-gr mi		PR						
BHT-02	207.24				hJ		50		pl yl-gr mi		PR						
BHT-02	207.27				hJ		60		pl yl-gr mi		PR						
BHT-02	207.32				hJ		30		pl yl-gr mi		PR						
BHT-02	207.35				hJ		60		pl yl-gr mi		PR						
BHT-02	207.35				hJ		0		pl yl-gr mi		UN						
BHT-02	207.36				hJ		0		pl yl-gr mi		UN						
BHT-02	207.37				hJ		60		pl yl-gr mi		PR						
BHT-02	207.39				hJ		60		pl yl-gr mi		UN						
BHT-02	207.40				hJ		20		pl yl-gr mi		UN						
BHT-02	207.42				hJ		30		pl yl-gr mi		UN						
BHT-02	207.45				hJ		90		pl yl-gr mi		IR						
BHT-02	207.48				hJ		30		pl yl-gr mi		PR						
BHT-02	207.49				hJ		90		pl yl-gr mi		PR						
BHT-02	207.54				hJ		30		pl yl-gr mi		PR						
BHT-02	207.61				hJ		20		pl yl-gr mi		PR						
BHT-02	207.63				hJ		30		pl yl-gr mi		PR						
BHT-02	207.64				V		60		pl yl-gr mi		PR		<	2			
BHT-02	207.67				hJ		50		pl yl-gr mi		PR						
BHT-02	207.69				hJ		40		pl yl-gr mi		UN						
BHT-02	207.73				hJ		55		pl yl-gr mi		PR						
BHT-02	207.75				V		70		pl yl-gr mi		PR		<	2			
BHT-02	207.75				hJ		20		pl yl-gr mi		UN						
BHT-02	207.77				hJ		20		pl yl-gr mi		UN						
BHT-02	207.88				hJ		75		pl yl-gr mi		PR						
BHT-02	207.88				hJ		60		pl yl-gr mi		PR						
BHT-02	207.92				hJ		40		pl yl-gr mi		PR						
BHT-02	207.95				hJ		90		pl yl-gr mi		PR						
BHT-02	208.02				hJ		10		pl yl-gr mi		UN						
BHT-02	208.05				hJ		70		pl yl-gr mi		PR						
BHT-02	208.06				hJ		30		pl yl-gr mi		PR						
BHT-02	208.13				hJ		40		pl yl-gr mi		PR						
BHT-02	208.16				hJ		10		pl yl-gr mi		PR						
BHT-02	208.17				hJ		20		pl yl-gr mi		PR						
BHT-02	208.18				hJ		70		pl yl-gr mi		UN						
BHT-02	208.19				hJ		40		pl yl-gr mi		PR						
BHT-02	208.21				hJ		20		pl yl-gr mi		PR						
BHT-02	208.23				hJ		20		pl yl-gr mi		UN						
BHT-02	208.26				hJ		20		pl yl-gr mi		PR						
BHT-02	208.27				hJ		60		pl yl-gr mi		PR						
BHT-02	208.28				hJ		10		pl yl-gr mi		PR						
BHT-02	208.28				hJ		10		pl yl-gr mi		PR						
BHT-02	208.29				V		20		pl yl-gr mi		IR		<	5			
BHT-02	208.31				hJ		20		pl yl-gr mi		PR						
BHT-02	208.32				hJ		70		pl yl-gr mi		UN						
BHT-02	208.33				hJ		70		pl yl-gr mi		UN						
BHT-02	208.34				hJ		70		pl yl-gr mi		UN						
BHT-02	208.34				hJ		60		pl yl-gr mi		PR						
BHT-02	208.35				hJ		30		pl yl-gr mi		PR						
BHT-02	208.37				hJ		40		pl yl-gr mi		UN						
BHT-02	208.41				hJ		20		pl yl-gr mi		UN						
BHT-02	208.43				hJ		60		pl yl-gr mi		UN						
BHT-02	208.44				hJ		60		pl yl-gr mi		UN						
BHT-02	208.46				hJ		60		pl yl-gr mi		PR						
BHT-02	208.47				hJ		55		pl yl-gr mi		UN						
BHT-02	208.52				hJ		50		pl yl-gr mi		UN						
BHT-02	208.53				hJ		50		pl yl-gr mi		UN						
BHT-02	208.54				hJ		50		pl yl-gr mi		PR						
BHT-02	208.55				hJ		75		pl yl-gr mi		UN						
BHT-02	208.56				hJ		40		pl yl-gr mi		PR						
BHT-02	208.57				hJ		40		pl yl-gr mi		PR						
BHT-02	208.58				hJ		40		pl yl-gr mi		PR						
BHT-02	208.66				hJ		20		pl yl-gr mi		IR						
BHT-02	208.67				hJ		85		pl yl-gr mi		UN						
BHT-02	208.70				hJ		50		pl yl-gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	208.73				hJ		30		pl ylt-gr mi		PR						
BHT-02	208.78				hJ		50		pl ylt-gr mi		UN						
BHT-02	208.87				hJ		65		pl ylt-gr mi		UN						
BHT-02	208.93				hJ		40		pl ylt-gr mi		PR						
BHT-02	208.98				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.02				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.04				hJ		30		pl ylt-gr mi		UN						
BHT-02	209.13				hJ		30		pl ylt-gr mi		PR						
BHT-02	209.14				hJ		30		pl ylt-gr mi		PR						
BHT-02	209.16				hJ				pl ylt-gr mi		UN						
BHT-02	209.16				hJ				pl ylt-gr mi		UN						
BHT-02	209.21				hJ		70		pl ylt-gr mi		UN						
BHT-02	209.22				hJ		30		pl ylt-gr mi		UN						
BHT-02	209.25				hJ				pl ylt-gr mi		IR						
BHT-02	209.28				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.31				hJ		30		pl ylt-gr mi		PR						
BHT-02	209.35				hJ		80		pl ylt-gr mi		UN						
BHT-02	209.35				hJ				pl ylt-gr mi		IR						
BHT-02	209.35				hJ				pl ylt-gr mi		IR						
BHT-02	209.38				hJ				pl ylt-gr mi		IR						
BHT-02	209.46				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.48				hJ		60		pl ylt-gr mi		PR						
BHT-02	209.50				hJ		90		pl ylt-gr mi		UN						
BHT-02	209.51				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.56				hJ		40		pl ylt-gr mi		PR						
BHT-02	209.57				hJ		40		pl ylt-gr mi		PR						
BHT-02	209.58				hJ		90		pl ylt-gr mi		PR						
BHT-02	209.60				hJ		30		pl ylt-gr mi		PR						
BHT-02	209.61				hJ		30		pl ylt-gr mi		PR						
BHT-02	209.62				hJ		30		pl ylt-gr mi		PR						
BHT-02	209.63				hJ		20		pl ylt-gr mi		UN						
BHT-02	209.66				hJ		80		pl ylt-gr mi		PR						
BHT-02	209.68				hJ		20		pl ylt-gr mi		PR						
BHT-02	209.69				hJ		20		pl ylt-gr mi		PR						
BHT-02	209.69				hJ		20		pl ylt-gr mi		PR						
BHT-02	209.71				hJ		70		pl ylt-gr mi		PR						
BHT-02	209.73				J		20			CN	PR	RF					possible DB
BHT-02	209.76				hJ		40		pl ylt-gr mi		UN						
BHT-02	209.77				hJ		40		pl ylt-gr mi		PR						
BHT-02	209.78				hJ		65		pl ylt-gr mi		PR						
BHT-02	209.79				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.80				hJ		50		pl ylt-gr mi		PR						
BHT-02	209.81				hJ		70		pl ylt-gr mi		UN						
BHT-02	209.82				hJ		90		pl ylt-gr mi		PR						
BHT-02	209.89				hJ		20		pl ylt-gr mi		PR						
BHT-02	209.94				hJ		10		pl ylt-gr mi		PR						
BHT-02	209.98				hJ		50		pl ylt-gr mi		PR						
BHT-02	210.01				hJ		30		pl ylt-gr mi		PR						
BHT-02	210.02				hJ		45		pl ylt-gr mi		PR						
BHT-02	210.04				hJ		80		pl ylt-gr mi		PR						
BHT-02	210.04				hJ		70		pl ylt-gr mi		UN						
BHT-02	210.04				hJ		60		pl ylt-gr mi		PR						
BHT-02	210.06				hJ		40		pl ylt-gr mi		PR						
BHT-02	210.07				hJ		40		pl ylt-gr mi		PR						
BHT-02	210.11				hJ		20		pl ylt-gr mi		PR						
BHT-02	210.11				hJ		10		pl ylt-gr mi		PR						
BHT-02	210.16				hJ		40		pl ylt-gr mi		PR						
BHT-02	210.17				hJ		90		pl ylt-gr mi		UN						
BHT-02	210.19				hJ		0		pl ylt-gr mi		UN						
BHT-02	210.20				hJ		30		pl ylt-gr mi		UN						
BHT-02	210.25				hJ		50		pl ylt-gr mi		PR						
BHT-02	210.28				hJ		20		bk mi		PR						
BHT-02	210.30				hJ		20		bk mi		PR						
BHT-02	210.31				hJ		20		bk mi		PR						
BHT-02	210.31				hJ		60		pl ylt-gr mi		UN						
BHT-02	210.32				hJ		30		bk mi		PR						
BHT-02	210.34				hJ		50		pl ylt-gr mi		PR						
BHT-02	210.36				hJ		20		pl ylt-gr mi		PR						
BHT-02	210.38				hJ				pl ylt-gr mi		UN						
BHT-02	210.41				hJ				pl ylt-gr mi		UN						
BHT-02	210.45				hJ		30		bk and pl ylt mi		PR						
BHT-02	210.46				hJ		50		pl ylt-gr mi		PR						
BHT-02	210.49				hJ		80		pl ylt-gr mi		PR						
BHT-02	210.50				hJ		20		pl ylt-gr mi		PR						
BHT-02	210.51				hJ		30		pl ylt-gr mi		PR						
BHT-02	210.56				hJ		30		pl ylt-gr mi		PR						
BHT-02	210.57				hJ		30		pl ylt-gr mi		PR						
BHT-02	210.58				hJ		70		pl ylt-gr mi		UN						
BHT-02	210.61				hJ		30		pl ylt-gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	210.63				hJ				pl ylt-gr mi		IR						
BHT-02	210.64				hJ		70		pl ylt-gr mi		PR						
BHT-02	210.70				hJ		50		pl ylt-gr mi		PR						
BHT-02	210.71				hJ		60		pl ylt-gr mi		PR						
BHT-02	210.79				hJ		30		pl ylt-gr mi		PR						
BHT-02	210.79				hJ		40		pl ylt-gr mi		UN						
BHT-02	210.83				hJ		40		pl ylt-gr mi								
BHT-02	210.84				hJ		70		pl ylt-gr mi		UN						
BHT-02	210.86				hJ		55		pl ylt-gr mi		PR						
BHT-02	210.87				hJ		60		pl ylt-gr mi		PR						
BHT-02	210.90				hJ		50		pl ylt-gr mi		PR						
BHT-02	210.94				hJ		60		pl ylt-gr mi		PR						
BHT-02	210.96				hJ		70		pl ylt-gr mi		PR						
BHT-02	210.98				hJ		60		pl ylt-gr mi		PR						
BHT-02	211.04				hJ		10		pl ylt-gr mi		UN						
BHT-02	211.05				hJ		60		pl ylt-gr mi		PR						
BHT-02	211.10				hJ		50		pl ylt-gr mi		UN						
BHT-02	211.16				hJ		40		pl ylt-gr mi		PR						
BHT-02	211.18				V		60		pl ylt-gr mi		UN						
BHT-02	211.22				hJ		40		pl ylt-gr mi		PR						
BHT-02	211.24				hJ		20		pl ylt-gr mi		PR						
BHT-02	211.25				hJ		80		pl ylt-gr mi		PR						
BHT-02	211.27				hJ		90		pl ylt-gr mi		PR						
BHT-02	211.32				hJ		40		pl ylt-gr mi		PR						
BHT-02	211.33				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.33				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.34				hJ		70		pl ylt-gr mi		PR						
BHT-02	211.35				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.37				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.39				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.40				hJ		50		pl ylt-gr mi		UN						
BHT-02	211.42				hJ		50		pl ylt-gr mi		UN						
BHT-02	211.43				hJ		50		pl ylt-gr mi		UN						
BHT-02	211.44				hJ		50		pl ylt-gr mi		UN						
BHT-02	211.48				hJ		70		pl ylt-gr mi		PR						
BHT-02	211.55				hJ		70		pl ylt-gr mi		PR						
BHT-02	211.56				hJ		20		pl ylt-gr mi		PR						
BHT-02	211.59				hJ		30		pl ylt-gr mi		UN						
BHT-02	211.60				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.61				hJ		20		pl ylt-gr mi		PR						
BHT-02	211.62				hJ		40		pl ylt-gr mi		PR						
BHT-02	211.65				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.66				hJ		5		pl ylt-gr mi		PR						
BHT-02	211.67				hJ		80		pl ylt-gr mi		UN						
BHT-02	211.69				hJ		40		pl ylt-gr mi		PR						
BHT-02	211.70				hJ		80		pl ylt-gr mi		UN						
BHT-02	211.71				hJ		40		pl ylt-gr mi		UN						
BHT-02	211.72				hJ		10		pl ylt-gr mi		PR						
BHT-02	211.73				hJ		90		pl ylt-gr mi		UN						
BHT-02	211.76				hJ		50		pl ylt-gr mi		PR						
BHT-02	211.78				hJ		60		pl ylt-gr mi		PR						
BHT-02	211.78				hJ		80		pl ylt-gr mi		PR						
BHT-02	211.80				hJ		70		pl ylt-gr mi		PR						
BHT-02	211.82				hJ		90		pl ylt-gr mi		IR						
BHT-02	211.83				hJ				pl ylt-gr mi		IR						
BHT-02	211.89				hJ		45		pl ylt-gr mi		PR						
BHT-02	211.93				J		30			CN	UN	SM					
BHT-02	211.96				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.03				hJ		40		pl ylt-gr mi		PR						
BHT-02	212.04				hJ		50		pl ylt-gr mi		PR						
BHT-02	212.05				hJ		40		pl ylt-gr mi		PR						
BHT-02	212.06				hJ		50		pl ylt-gr mi		PR						
BHT-02	212.08				hJ		50		pl ylt-gr mi		PR						
BHT-02	212.13				hJ		70		pl ylt-gr mi		PR						
BHT-02	212.15				hJ		70		pl ylt-gr mi		PR						
BHT-02	212.16				hJ		30		pl ylt-gr mi		UN						
BHT-02	212.16				hJ		70		pl ylt-gr mi		PR						
BHT-02	212.17				hJ		10		pl ylt-gr mi		UN						
BHT-02	212.20				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.24				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.25				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.26				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.27				hJ		50		pl ylt-gr mi		UN						
BHT-02	212.30				hJ		60		pl ylt-gr mi		UN						
BHT-02	212.31				hJ		0		pl ylt-gr mi		PR						
BHT-02	212.35				hJ		30		pl ylt-gr mi		UN						
BHT-02	212.38				V		50		pl ylt-gr mi		PR		<	4			
BHT-02	212.40				hJ		0		pl ylt-gr mi		UN						
BHT-02	212.40				hJ		60		pl ylt-gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	212.42				hJ				pl ylt-gr mi		IR						
BHT-02	212.43				hJ		40		pl ylt-gr mi		PR						
BHT-02	212.43				hJ		50		pl ylt-gr mi		PR						
BHT-02	212.44				hJ		40		pl ylt-gr mi		PR						
BHT-02	212.47				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.49				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.50				V		40		pl ylt-gr mi		PR		<	5			
BHT-02	212.54				hJ		70		pl ylt-gr mi		IR						
BHT-02	212.60				hJ		65		pl ylt-gr mi		UN						
BHT-02	212.63				hJ		60		pl ylt-gr mi		UN						
BHT-02	212.67				V		40		pl ylt-gr mi		PR		<	2			
BHT-02	212.71				hJ		70		pl ylt-gr mi		UN						
BHT-02	212.72				hJ		40		pl ylt-gr mi		UN						
BHT-02	212.75				hJ		70		pl ylt-gr mi		UN						
BHT-02	212.76				hJ		60		pl ylt-gr mi		UN						
BHT-02	212.78				hJ		30		pl ylt-gr mi		UN						
BHT-02	212.80				hJ		40		pl ylt-gr mi		PR						
BHT-02	212.83				hJ		90		pl ylt-gr mi		PR						
BHT-02	212.86				hJ		30		pl ylt-gr mi		PR						
BHT-02	212.88				hJ		80		pl ylt-gr mi		UN						
BHT-02	212.91				hJ		30		pl ylt-gr mi		PR						
BHT-02	212.92				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.94				V		60		pl ylt-gr mi		PR		<	5			
BHT-02	212.96				hJ		60		pl ylt-gr mi		PR						
BHT-02	212.98				hJ		90		pl ylt-gr mi		UN						
BHT-02	213.04				V		40		pl ylt-gr mi		PR		<	8			
BHT-02	213.07				hJ		10		pl ylt-gr mi		UN						
BHT-02	213.08				V		70		pl ylt-gr mi		PR		<	10			
BHT-02	213.10				hJ		40		bk mi		UN						
BHT-02	213.11				hJ		40		bk mi		UN						
BHT-02	213.12				hJ		40		bk mi		UN						
BHT-02	213.14				V		70		pl ylt-gr mi		PR		<	5			
BHT-02	213.20				hJ		80		pl ylt-gr mi		UN						
BHT-02	213.22				V		40		pl ylt-gr mi		PR		<	4			
BHT-02	213.24				J		10		pl ylt-gr mi	CN	UN	RF					
BHT-02	213.26				hJ		60		pl ylt-gr mi		PR						
BHT-02	213.33				V		50		pl ylt-gr mi		PR		<	5			
BHT-02	213.35				V		60		pl ylt-gr mi		UN		<	5			
BHT-02	213.36				hJ		20		pl ylt-gr mi		UN						
BHT-02	213.37				hJ		90		pl ylt-gr mi		UN						
BHT-02	213.38				hJ		60		pl ylt-gr mi		UN						
BHT-02	213.42				hJ		30		pl ylt-gr mi		UN						
BHT-02	213.43				hJ		30		pl ylt-gr mi		UN						
BHT-02	213.44				hJ		30		pl ylt-gr mi		UN						
BHT-02	213.46				hJ		20		pl ylt-gr mi		PR						
BHT-02	213.51				V		45		pl ylt-gr mi		UN						
BHT-02	213.54				V		45		pl ylt-gr mi		UN						
BHT-02	213.57				hJ		50		pl ylt-gr mi		PR						
BHT-02	213.58				hJ		80		pl ylt-gr mi		UN						
BHT-02	213.58				hJ		30		pl ylt-gr mi		PR						
BHT-02	213.58				hJ		30		pl ylt-gr mi		PR						
BHT-02	213.59				hJ		40		pl ylt-gr mi		PR						
BHT-02	213.61				V		40		pl ylt-gr mi		PR		<	2			
BHT-02	213.62				hJ		40		pl ylt-gr mi		UN						
BHT-02	213.65				hJ		40		pl ylt-gr mi		UN						
BHT-02	213.66				hJ		20		pl ylt-gr mi		UN						
BHT-02	213.68				hJ		90		pl ylt-gr mi		UN						
BHT-02	213.69				hJ		70		pl ylt-gr mi		UN						
BHT-02	213.70				hJ		40		pl ylt-gr mi		UN						
BHT-02	213.71				hJ		10		pl ylt-gr mi		UN						
BHT-02	213.72				hJ		70		pl ylt-gr mi		PR						
BHT-02	213.76				hJ				pl ylt-gr mi		IR						
BHT-02	213.78				hJ		40		pl ylt-gr mi		UN						
BHT-02	213.82				hJ		80		pl ylt-gr mi		PR						
BHT-02	213.84				hJ		40		pl ylt-gr mi		UN						
BHT-02	213.85				hJ		40		pl ylt-gr mi		UN						
BHT-02	213.86				hJ		50		pl ylt-gr mi		UN						
BHT-02	213.89				hJ		70		pl ylt-gr mi		UN						
BHT-02	213.93				V		50		gy-gr mi		UN			3			
BHT-02	213.95				hJ		40		pl ylt-gr mi		PR						
BHT-02	213.97				hJ		80		pl ylt-gr mi		UN						
BHT-02	214.01				hJ				pl ylt-gr mi		IR						
BHT-02	214.03				V		30		gy-gr mi		PR			1			
BHT-02	214.04				hJ		30		pl ylt-gr mi		PR						
BHT-02	214.06				hJ		60		pl ylt-gr mi		PR						
BHT-02	214.13				hJ		40		pl ylt-gr mi		PR						
BHT-02	214.14				hJ		10		pl ylt-gr mi		UN						
BHT-02	214.16				hJ		40		pl ylt-gr mi		PR						
BHT-02	214.17				hJ		60		pl ylt-gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	214.18				hJ		60		pl yl-gr mi		IR						
BHT-02	214.23				hJ		20		pl yl-gr mi		PR						
BHT-02	214.25				hJ		20		pl yl-gr mi		UN						
BHT-02	214.29				hJ		40		pl yl-gr mi		PR						
BHT-02	214.31				hJ		80		pl yl-gr mi		PR						
BHT-02	214.36				hJ		30		pl yl-gr mi		PR						
BHT-02	214.37				hJ				pl yl-gr mi		IR						
BHT-02	214.40				hJ		80		pl yl-gr mi		UN						
BHT-02	214.41				hJ		80		pl yl-gr mi		UN						
BHT-02	214.41				hJ		50		pl yl-gr mi		PR						
BHT-02	214.43				hJ		60		pl yl-gr mi		UN						
BHT-02	214.45				hJ		40		pl yl-gr mi		PR						
BHT-02	214.46				hJ		90		pl yl-gr mi		UN						
BHT-02	214.47				hJ		40		pl yl-gr mi		PR						
BHT-02	214.49				hJ		90		pl yl-gr mi		UN						
BHT-02	214.49				hJ		90		pl yl-gr mi		UN						
BHT-02	214.51				hJ		30		pl yl-gr mi		PR						
BHT-02	214.54				hJ		50		pl yl-gr mi		PR						
BHT-02	214.56				hJ		80		pl yl-gr mi		PR						
BHT-02	214.58				hJ		30		pl yl-gr mi		PR						
BHT-02	214.59				hJ		70		pl yl-gr mi		UN						
BHT-02	214.63				hJ		45		pl yl-gr mi		PR						
BHT-02	214.64				hJ		80		pl yl-gr mi		UN						
BHT-02	214.65				hJ		80		pl yl-gr mi		UN						
BHT-02	214.66				hJ		60		pl yl-gr mi		PR						
BHT-02	214.67				V		40		pl yl-gr mi		PR		<	4			
BHT-02	214.68				hJ		60		pl yl-gr mi		PR						
BHT-02	214.69				hJ		60		pl yl-gr mi		PR						
BHT-02	214.70				hJ		40		pl yl-gr mi		PR						
BHT-02	214.71				hJ		70		pl yl-gr mi		UN						
BHT-02	214.72				hJ		40		pl yl-gr mi		PR						
BHT-02	214.73				hJ		70		pl yl-gr mi		UN						
BHT-02	214.74				hJ		70		pl yl-gr mi		PR						
BHT-02	214.75				hJ		70		pl yl-gr mi		PR						
BHT-02	214.77				hJ		70		pl yl-gr mi		PR						
BHT-02	214.78				hJ		85		pl yl-gr mi		UN						
BHT-02	214.79				hJ		20		pl yl-gr mi		PR						
BHT-02	214.83				hJ		50		pl yl-gr mi		PR						
BHT-02	214.86				hJ		70		pl yl-gr mi		PR						
BHT-02	214.88				hJ		90		pl yl-gr mi		PR						
BHT-02	214.92				hJ		40		pl yl-gr mi		PR						
BHT-02	214.93				hJ		60		pl yl-gr mi		UN						
BHT-02	214.94				hJ		90		pl yl-gr mi		UN						
BHT-02	214.96				hJ		40		pl yl-gr mi		PR						
BHT-02	214.97				hJ		50		pl yl-gr mi		PR						
BHT-02	214.98				hJ		50		pl yl-gr mi		PR						
BHT-02	215.11				hJ		40		pl yl mi		PR						
BHT-02	215.14				hJ		70		pl yl mi		PR						
BHT-02	215.16				hJ		70		pl yl mi		PR						
BHT-02	215.17				hJ		70		pl yl mi		PR						
BHT-02	215.19				hJ		50		pl yl mi		PR						
BHT-02	215.20				hJ		50		pl yl mi		PR						
BHT-02	215.21				hJ		40		pl yl mi		PR						
BHT-02	215.22				hJ		70		pl yl mi		PR						
BHT-02	215.25				hJ		40		pl yl mi		PR						
BHT-02	215.27				hJ		40		pl yl mi		UN						
BHT-02	215.31				hJ		40		pl yl mi		PR						
BHT-02	215.35				hJ		50		pl yl mi		PR						
BHT-02	215.38				hJ		60		pl yl mi		PR						
BHT-02	215.38				hJ		50		pl yl mi		PR						
BHT-02	215.46				hJ		80		pl yl mi		UN						
BHT-02	215.49				hJ		30		pl yl mi		PR						
BHT-02	215.50				hJ		60		pl yl mi		PR						
BHT-02	215.51				hJ		50		pl yl mi		PR						
BHT-02	215.53				hJ		50		pl yl mi		PR						
BHT-02	215.54				hJ		60		pl yl mi		PR						
BHT-02	215.55				hJ		50		pl yl mi		PR						
BHT-02	215.60				hJ		50		pl yl mi		PR						
BHT-02	215.62				hJ		60		pl yl mi		PR						
BHT-02	215.63				hJ		70		pl yl mi		UN						
BHT-02	215.65				V		80		pl yl mi		UN		<	4			
BHT-02	215.71				hJ		40		pl yl mi		UN						
BHT-02	215.74				hJ		40		pl yl mi		UN						
BHT-02	215.87				hJ		70		pl yl mi		UN						
BHT-02	215.88				hJ		70		pl yl mi		UN						
BHT-02	215.93				hJ		70		pl yl mi		UN						
BHT-02	215.95				hJ		50		pl yl mi		UN						
BHT-02	215.95				hJ		70		pl yl mi		PR						
BHT-02	216.07				hJ		50		pl yl mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	216.11				hJ		70		pl yL mi		PR						
BHT-02	216.17				hJ		85		pl yL mi		PR						
BHT-02	216.19				hJ		50		pl yL mi		PR						
BHT-02	216.21				hJ		40		pl yL mi		PR						
BHT-02	216.23				hJ		80		pl yL mi		PR						
BHT-02	216.24				hJ		70		pl yL mi		PR						
BHT-02	216.34				hJ		50		pl yL mi		PR						
BHT-02	216.37				hJ		60		pl yL mi		PR						
BHT-02	216.43				hJ		40		pl yL mi		PR						
BHT-02	216.46				hJ		50		pl yL mi		PR						
BHT-02	216.47				hJ		50		bk mi		PR						
BHT-02	216.48				hJ		50		bk mi		PR						
BHT-02	216.51				hJ		60		pl yL mi		PR						
BHT-02	216.56				hJ		70		pl yL mi		PR						
BHT-02	216.57				hJ		70		pl yL mi		UN						
BHT-02	216.58				hJ		60		pl yL mi		UN						
BHT-02	216.58				hJ		60		pl yL mi		UN						
BHT-02	216.61				hJ		50		pl yL mi		PR						
BHT-02	216.63				hJ		50		pl yL mi		PR						
BHT-02	216.68				hJ		45		pl yL mi		PR						
BHT-02	216.70				hJ		45		bk mi		PR						
BHT-02	216.74				hJ		40		bk and pl yL mi		PR						
BHT-02	216.75				hJ		50		pl yL mi		PR						
BHT-02	216.80				hJ		65		pl yL mi		UN						
BHT-02	216.81				hJ		30		pl yL mi		UN						
BHT-02	216.83				hJ		60		pl yL mi		PR						
BHT-02	216.86				hJ		70		pl yL mi		PR						
BHT-02	216.86				hJ		40		bk and pl yL mi		PR						
BHT-02	216.90				hJ		40		bk mi		UN						
BHT-02	216.90				hJ		60		pl yL mi		PR						
BHT-02	216.91				hJ		60		pl yL mi		PR						
BHT-02	216.91				hJ		50		pl yL mi		UN						
BHT-02	216.93				hJ		50		pl yL mi		UN						
BHT-02	216.94				hJ		50		pl yL mi		PR						
BHT-02	216.96				hJ		50		pl yL mi		UN						
BHT-02	216.99				V		50		pl yL mi		PR		<	5			
BHT-02	217.02				hJ		40		pl yL mi		PR						
BHT-02	217.05				hJ		45		pl yL mi		PR						
BHT-02	217.06				hJ		45		pl yL mi		PR						
BHT-02	217.06				hJ		45		pl yL mi		PR						
BHT-02	217.07				hJ		75		pl yL mi		UN						
BHT-02	217.12				hJ		60		pl yL mi		UN						
BHT-02	217.14				hJ		50		pl yL mi		UN						
BHT-02	217.16				hJ		45		pl yL mi		PR						
BHT-02	217.20				hJ		45		pl yL mi		UN						
BHT-02	217.20				hJ		50		pl yL mi		PR						
BHT-02	217.23				hJ		50		pl yL mi		PR						
BHT-02	217.25				hJ		50		pl yL mi		PR						
BHT-02	217.26				hJ		60		pl yL mi		PR						
BHT-02	217.28				hJ		40		pl yL mi		PR						
BHT-02	217.29				hJ		35		pl yL mi		PR						
BHT-02	217.30				hJ		35		pl yL mi		PR						
BHT-02	217.30				hJ		50		pl yL mi		UN						
BHT-02	217.35				hJ		40		pl yL mi		UN						
BHT-02	217.37				hJ		40		pl yL mi		UN						
BHT-02	217.37				hJ		40		pl yL mi		UN						
BHT-02	217.42				hJ		40		pl yL mi		PR						
BHT-02	217.43				hJ		50		pl yL mi		UN						
BHT-02	217.46				hJ		15		pl yL mi		PR						
BHT-02	217.48				hJ		40		pl yL mi		PR						
BHT-02	217.52				hJ		50		pl yL mi		PR						
BHT-02	217.54				hJ		55		pl yL mi		UN						
BHT-02	217.60				hJ		65		pl yL mi		UN						
BHT-02	217.65				hJ		60		pl yL mi		UN						
BHT-02	217.68				hJ		60		pl yL mi		PR						
BHT-02	217.70				hJ		70		pl yL mi		PR						
BHT-02	217.71				hJ		60		pl yL mi		PR						
BHT-02	217.72				hJ		60		pl yL mi		PR						
BHT-02	217.75				hJ		60		pl yL mi		PR						
BHT-02	217.81				hJ		60		pl yL mi		PR						
BHT-02	217.84				hJ		50		pl yL mi		PR						
BHT-02	217.87				hJ		50		pl yL mi		PR						
BHT-02	217.89				hJ		70		pl yL mi		PR						
BHT-02	217.91				hJ		40		pl yL mi		PR						
BHT-02	217.93				hJ		60		pl yL mi		UN						
BHT-02	217.95				hJ		60		pl yL mi		PR						
BHT-02	217.96				hJ		70		pl yL mi		PR						
BHT-02	217.97				hJ		60		pl yL mi		PR						
BHT-02	217.98				hJ		60		pl yL mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	218.03				hJ		70		pl yl mi		PR						
BHT-02	218.04				hJ		70		pl yl mi		PR						
BHT-02	218.06				hJ		70		pl yl mi		PR						
BHT-02	218.08				hJ		70		pl yl mi		PR						
BHT-02	218.16				V		45		bk, glassy		PR		<	5			
BHT-02	218.18				hJ		45		pl yl mi		PR						
BHT-02	218.22				CO						IR						
BHT-02	218.25				hJ		50		pl yl mi		UN						
BHT-02	218.27				hJ		50		pl yl mi		PR						
BHT-02	218.28				hJ		90		pl yl mi		UN						
BHT-02	218.29				hJ		60		pl yl mi		PR						
BHT-02	218.29				hJ		40		pl yl mi		PR						
BHT-02	218.30				hJ		60		pl yl mi		PR						
BHT-02	218.31				hJ		40		pl yl mi		PR						
BHT-02	218.31				hJ		80		pl yl mi		PR						
BHT-02	218.36				hJ		40		pl yl mi		UN						
BHT-02	218.37				hJ		50		pl yl mi		UN						
BHT-02	218.40				hJ		70		pl yl mi		PR						
BHT-02	218.42				hJ		70		pl yl mi		UN						
BHT-02	218.43				hJ		70		pl yl mi		UN						
BHT-02	218.46				hJ		80		pl yl mi		UN						
BHT-02	218.50				hJ		80		pl yl mi		PR						
BHT-02	218.54				hJ		90		pl yl mi		UN						
BHT-02	218.56				hJ		50		pl yl mi		PR						
BHT-02	218.57				hJ		10		pl yl mi		PR						
BHT-02	218.58				hJ		70		pl yl mi		UN						
BHT-02	218.63				hJ		75		pl yl mi		UN						
BHT-02	218.65				hJ		40		pl yl mi		PR						
BHT-02	218.67				hJ		90		pl yl mi		PR						
BHT-02	218.69				hJ		60		pl yl mi		PR						
BHT-02	218.70				hJ		10		pl yl mi		IR						
BHT-02	218.71				hJ		60		pl yl mi		UN						
BHT-02	218.74				V		70		pl yl mi		PR		<	3			
BHT-02	218.75				hJ		90		pl yl mi		PR						
BHT-02	218.76				hJ		90		pl yl mi		PR						
BHT-02	218.77				hJ		40		pl yl mi		UN						
BHT-02	218.77				hJ		25		pl yl mi		PR						
BHT-02	218.78				hJ		40		pl yl mi		UN						
BHT-02	218.79				hJ		50		pl yl mi		PR						
BHT-02	218.84				hJ		40		pl yl mi		PR						
BHT-02	218.88				hJ		90		pl yl mi		UN						
BHT-02	218.89				hJ		60		pl yl mi		PR						
BHT-02	218.89				hJ		90		pl yl mi		UN						
BHT-02	218.89				hJ		90		pl yl mi		UN						
BHT-02	218.92				hJ		25		pl yl mi		UN						
BHT-02	218.96				V		80		pl yl mi		UN		<	4			
BHT-02	218.98				hJ		30		pl yl mi		UN						
BHT-02	219.03				hJ		60		pl yl-gr mi		PR						
BHT-02	219.05				V		40		pl yl-gr mi		PR			4			
BHT-02	219.05				hJ		30		pl yl-gr mi		PR						
BHT-02	219.06				hJ		70		pl yl-gr mi		UN						
BHT-02	219.07				hJ		70		pl yl-gr mi		UN						
BHT-02	219.07				hJ		60		pl yl-gr mi		PR						
BHT-02	219.08				hJ		5		pl yl-gr mi		UN						
BHT-02	219.08				hJ		60		pl yl-gr mi		PR						
BHT-02	219.10				hJ		70		pl yl-gr mi		UN						
BHT-02	219.12				hJ		10		pl yl-gr mi		PR						
BHT-02	219.13				hJ		60		pl yl-gr mi		PR						
BHT-02	219.13				hJ		10		pl yl-gr mi		UN						
BHT-02	219.14				hJ		60		pl yl-gr mi		PR						
BHT-02	219.16				hJ		60		pl yl-gr mi		PR						
BHT-02	219.18				hJ		60		pl yl-gr mi		UN						
BHT-02	219.18				hJ		70		pl yl-gr mi		PR						
BHT-02	219.18				hJ		50		pl yl-gr mi		PR						
BHT-02	219.19				hJ		50		pl yl-gr mi		PR						
BHT-02	219.21				hJ		50		pl yl-gr mi		PR						
BHT-02	219.22				hJ		40		pl yl-gr mi		PR						
BHT-02	219.23				hJ		70		pl yl-gr mi		PR						
BHT-02	219.25				hJ		40		pl yl-gr mi		PR						
BHT-02	219.34				hJ		40		pl yl-gr mi		PR						
BHT-02	219.35				hJ		60		pl yl-gr mi		PR						
BHT-02	219.36				hJ		60		pl yl-gr mi		PR						
BHT-02	219.39				V		70		pl yl-gr mi		UN			1			3 mm pl yl-gr halo
BHT-02	219.41				hJ		50		pl yl-gr mi		UN						
BHT-02	219.42				hJ		10		pl yl-gr mi		UN						
BHT-02	219.43				hJ		70		pl yl-gr mi		UN						
BHT-02	219.44				hJ		50		pl yl-gr mi		UN						
BHT-02	219.47				hJ		50		pl yl-gr mi		PR						
BHT-02	219.50				hJ		60		pl yl-gr mi		PR						



Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	219.51				hJ		55		pl yl-gr mi		PR						
BHT-02	219.55				hJ		70		pl yl-gr mi		PR						
BHT-02	219.57				hJ		50		pl yl-gr mi		PR						
BHT-02	219.59				hJ		70		pl yl-gr mi		UN						
BHT-02	219.61				hJ		60		pl yl-gr mi		PR						3 mm pl yl-gr halo
BHT-02	219.63				hJ		70		pl yl-gr mi		PR						
BHT-02	219.65				hJ		30		pl yl-gr mi		PR						
BHT-02	219.68				hJ		30		pl yl-gr mi		PR						
BHT-02	219.74				hJ		45		pl yl-gr mi		UN						
BHT-02	219.77				hJ		55		pl yl-gr mi		UN						
BHT-02	219.78				V		50		pl yl-gr mi		PR			2			
BHT-02	219.79				hJ		50		pl yl-gr mi		UN						
BHT-02	219.80				hJ		30		pl yl-gr mi		PR						
BHT-02	219.82				hJ		40		pl yl-gr mi		PR						
BHT-02	219.84				hJ		80		pl yl-gr mi		UN						
BHT-02	219.85				hJ		70		pl yl-gr mi		UN						
BHT-02	219.87				hJ		20		pl yl-gr mi		PR						
BHT-02	219.87				hJ		40		pl yl-gr mi		PR						
BHT-02	219.88				hJ		40		pl yl-gr mi		PR						
BHT-02	219.88				V		55		pl yl-gr mi		UN			1			
BHT-02	219.88				hJ		10		pl yl-gr mi		PR						
BHT-02	219.89				hJ		40		pl yl-gr mi		PR						
BHT-02	219.90				hJ		70		pl yl-gr mi		UN						
BHT-02	219.91				hJ		40		pl yl-gr mi		PR						
BHT-02	219.92				hJ		70		pl yl-gr mi		UN						
BHT-02	219.92				hJ		50		pl yl-gr mi		PR						
BHT-02	219.92				hJ		60		pl yl-gr mi		PR						
BHT-02	219.96				hJ		60		pl yl-gr mi		PR						
BHT-02	219.97				hJ		60		pl yl-gr mi		PR						
BHT-02	219.98				hJ		60		pl yl-gr mi		PR						
BHT-02	220.00				hJ		70		pl yl-gr mi		PR						
BHT-02	220.01				hJ		60		pl yl-gr mi		PR						
BHT-02	220.01				hJ		80		pl yl-gr mi		UN						
BHT-02	220.02				hJ		40		pl yl-gr mi		PR						
BHT-02	220.02				hJ		50		pl yl-gr mi		UN						
BHT-02	220.03				hJ		70		pl yl-gr mi		UN						
BHT-02	220.07				hJ		70		pl yl-gr mi		UN						
BHT-02	220.07				hJ		60		pl yl-gr mi		PR						
BHT-02	220.12				hJ		50		pl yl-gr mi		PR						
BHT-02	220.14				hJ		50		pl yl-gr mi		PR						
BHT-02	220.22				hJ		50		pl yl-gr mi		PR						
BHT-02	220.23				hJ		90		pl yl-gr mi		PR						
BHT-02	220.25				hJ		60		pl yl-gr mi		PR						
BHT-02	220.26				hJ		60		pl yl-gr mi		PR						
BHT-02	220.31				V		60		pl yl-gr mi		PR			3			
BHT-02	220.35				hJ		40		pl yl-gr mi		PR						
BHT-02	220.36				hJ		40		pl yl-gr mi		PR						
BHT-02	220.38				hJ		75		pl yl-gr mi		PR						
BHT-02	220.39				hJ		70		pl yl-gr mi		PR						
BHT-02	220.42				hJ		35		pl yl-gr mi		UN						
BHT-02	220.46				hJ		60		pl yl-gr mi		PR						
BHT-02	220.49				hJ		40		pl yl-gr mi		PR						
BHT-02	220.50				hJ		70		pl yl-gr mi		PR						
BHT-02	220.51				V		50		pl yl-gr mi		PR			2			
BHT-02	220.51				hJ		30		pl yl-gr mi		PR			5			
BHT-02	220.59				V		45		pl yl-gr mi		PR						
BHT-02	220.65				hJ		30		pl yl-gr mi		PR						
BHT-02	220.66				hJ		70		pl yl-gr mi		PR						
BHT-02	220.68				hJ		70		pl yl-gr mi		UN						
BHT-02	220.71				hJ		35		pl yl-gr mi		UN						
BHT-02	220.73				hJ		50		pl yl-gr mi		UN						
BHT-02	220.74				hJ		50		pl yl-gr mi		UN						
BHT-02	220.76				hJ		55		pl yl-gr mi		UN						
BHT-02	220.77				hJ		90		pl yl-gr mi		UN						
BHT-02	220.80				hJ		60		pl yl-gr mi		PR						
BHT-02	220.81				hJ		60		pl yl-gr mi		PR						
BHT-02	220.82				hJ		55		pl yl-gr mi		PR						
BHT-02	220.83				hJ		50		pl yl-gr mi		UN						
BHT-02	220.87				hJ		60		pl yl-gr mi		PR						
BHT-02	220.88				hJ		40		pl yl-gr mi		PR						
BHT-02	220.89				hJ		50		pl yl-gr mi		PR						
BHT-02	220.92				hJ		50		pl yl-gr mi		UN						
BHT-02	220.94				hJ		50		pl yl-gr mi		PR						
BHT-02	221.01				hJ		40		pl yl-gr mi		PR						
BHT-02	221.02				hJ		60		pl yl-gr mi		PR						
BHT-02	221.03				hJ		30		pl yl-gr mi		PR						
BHT-02	221.05				hJ		20		pl yl-gr mi		PR						
BHT-02	221.06				CO		45				PR						
BHT-02	221.06				hJ		30		pl yl-gr mi		PR						

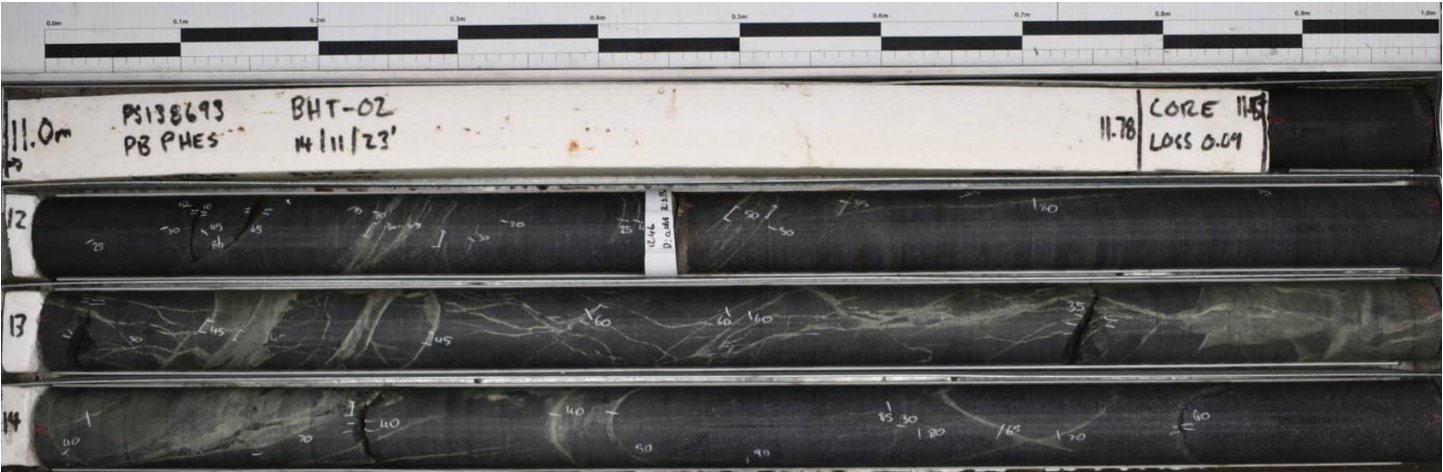


Pioneer-Burdekin Pumped Hydro Energy Scheme: Tranche 1 – BHT-02 Defects List

Refer to Explanatory Notes sheets for abbreviation definitions

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHT-02	221.07				V		50		plyl-gr mi		PR			3			
BHT-02	221.09				hJ		50		plyl-gr mi		PR						
BHT-02	221.11				hJ		40		plyl-gr mi		PR						
BHT-02	221.14				hJ		50		plyl-gr mi		UN						
BHT-02	221.15				hJ		70		plyl-gr mi		PR						
BHT-02	221.17				hJ		80		plyl-gr mi		UN						
BHT-02	221.18				hJ		80		plyl-gr mi		PR						
BHT-02	221.21				hJ		80		plyl-gr mi		UN						
BHT-02	221.26				hJ		20		plyl-gr mi		UN						
BHT-02	221.28				hJ		80		plyl-gr mi		UN						
BHT-02	221.33				V		30		plyl-gr mi		PR			1			
BHT-02	221.36				hJ		50		plyl-gr mi		PR						
BHT-02	221.44				hJ		60		plyl-gr mi		UN						
BHT-02	221.47				hJ		60		plyl-gr mi		PR						
BHT-02	221.52				hJ		40		plyl-gr mi		UN						
BHT-02	221.54				hJ		70		plyl-gr mi		PR						
BHT-02	221.57				hJ		60		plyl-gr mi		UN						
BHT-02	221.57				hJ		50		plyl-gr mi		PR						
BHT-02	221.59				hJ		50		plyl-gr mi		PR						
BHT-02	221.59				hJ		50		plyl-gr mi		PR						
BHT-02	221.60				hJ		50		plyl-gr mi		PR						
BHT-02	221.60				hJ		60		plyl-gr mi		PR						
BHT-02	221.61				hJ		60		plyl-gr mi		PR						
BHT-02	221.62				hJ		60		plyl-gr mi		PR						
BHT-02	221.65				hJ		40		plyl-gr mi		UN						
BHT-02	221.66				hJ		60		plyl-gr mi		UN						
BHT-02	221.67				hJ		60		plyl-gr mi		PR						
BHT-02	221.70				hJ		60		plyl-gr mi		PR						
BHT-02	221.72				hJ		30		plyl-gr mi		PR						
BHT-02	221.74				hJ		60		plyl-gr mi		PR						
BHT-02	221.75				hJ		70		plyl-gr mi		UN						
BHT-02	221.75				hJ		60		plyl-gr mi		PR						
BHT-02	221.76				hJ		60		plyl-gr mi		PR						
BHT-02	221.77				hJ		30		plyl-gr mi		PR						
BHT-02	221.78				hJ		60		plyl-gr mi		PR						
BHT-02	221.86				V		70		plyl-gr mi		UN			4			
BHT-02	221.96				hJ		60		plyl-gr mi		UN						
BHT-02	222.05				hJ		50		plyl-gr mi		PR						
BHT-02	222.07				hJ		60		plyl-gr mi		UN						
BHT-02	222.09				hJ		50		plyl-gr mi		UN						
BHT-02	222.10				hJ		55		plyl-gr mi		PR						
BHT-02	222.14				hJ		50		plyl-gr mi		PR						
BHT-02	222.16				hJ		50		plyl-gr mi		PR						
BHT-02	222.17				hJ		50		plyl-gr mi		UN						
BHT-02	222.18				hJ		70		plyl-gr mi		UN						
BHT-02	222.19				hJ		50		plyl-gr mi		PR						
BHT-02	222.21				hJ		20		plyl-gr mi		UN						
BHT-02	222.23				hJ		40		plyl-gr mi		PR						
BHT-02	222.24				hJ		50		plyl-gr mi		PR						
BHT-02	222.25				hJ		50		plyl-gr mi		PR						
BHT-02	222.25				hJ		50		plyl-gr mi		PR						
BHT-02	222.25				hJ		50		plyl-gr mi		PR						
BHT-02	222.26				hJ		50		plyl-gr mi		PR						

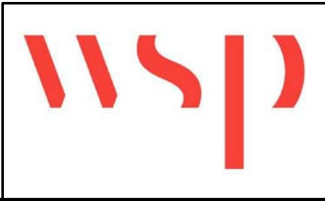
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PointID : BHT-02 Depth Range: 11.78 - 15.00 m



PointID : BHT-02 Depth Range: 15.00 - 19.00 m

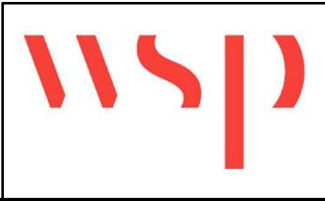
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		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 1/27

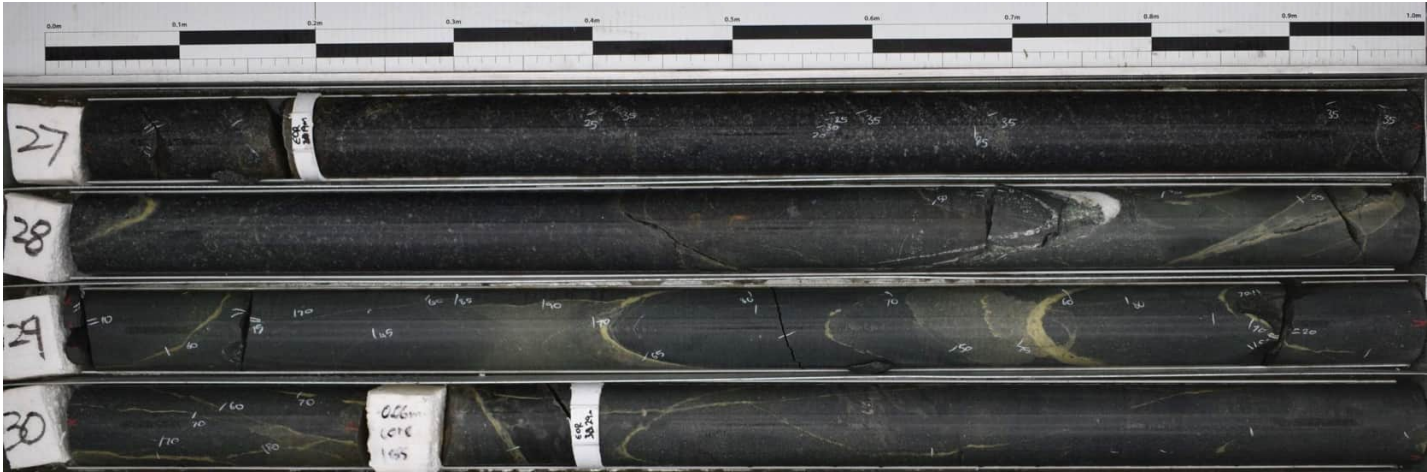


PointID : BHT-02 Depth Range: 19.00 - 23.00 m

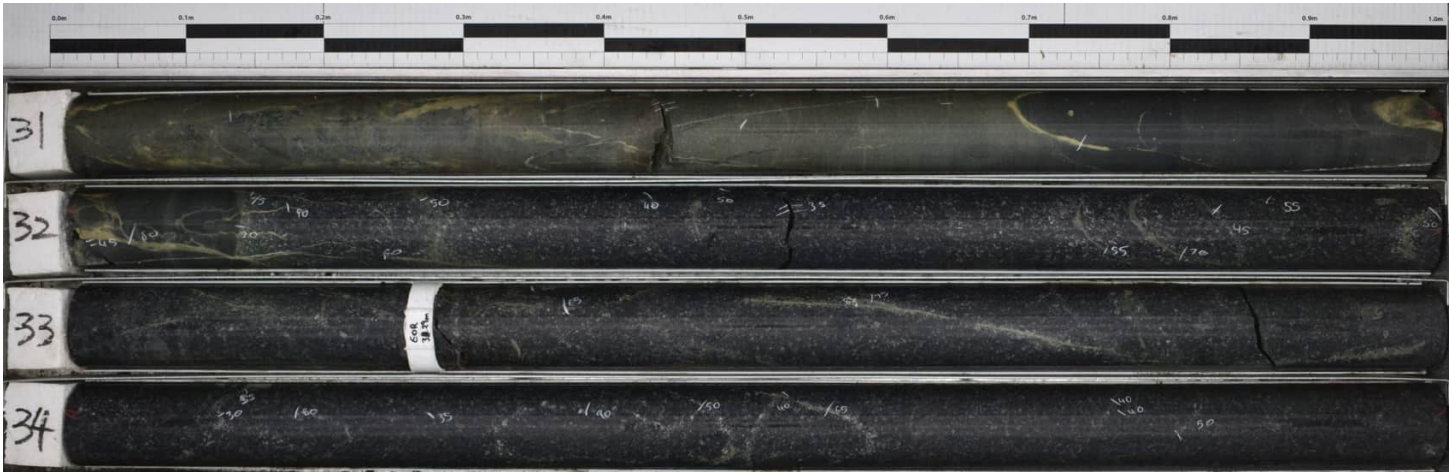


PointID : BHT-02 Depth Range: 23.00 - 27.00 m

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		CHECKED	GEM	DATE	7/10/2024
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		PROJECT No	PS138693		FIGURE No 2/27



PointID : BHT-02 Depth Range: 27.00 - 31.00 m



PointID : BHT-02 Depth Range: 31.00 - 35.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 3/27

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PointID : BHT-02 Depth Range: 35.00 - 39.00 m

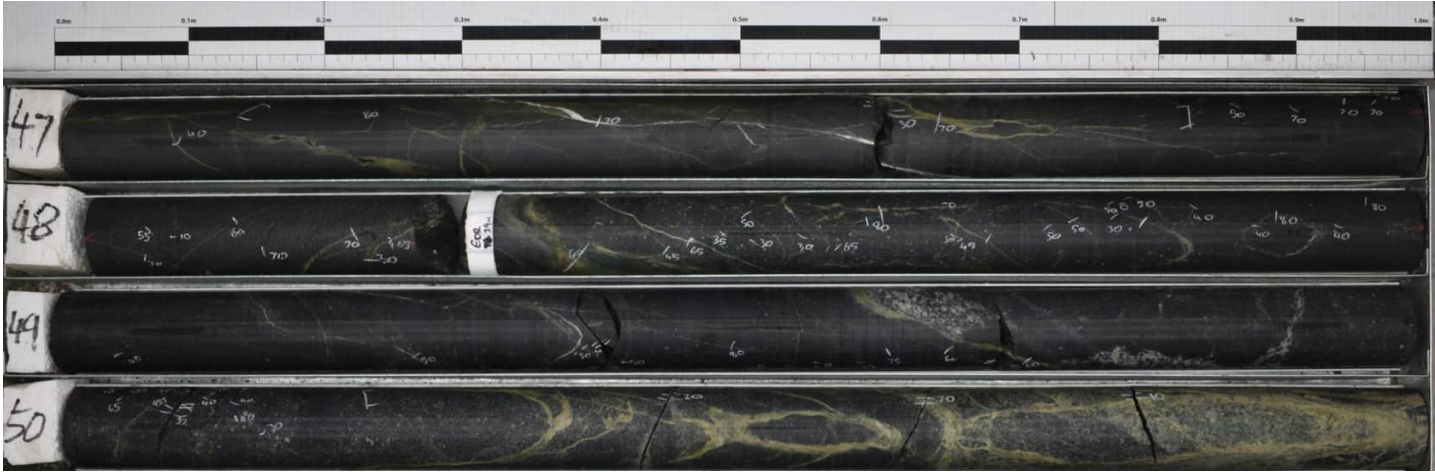


PointID : BHT-02 Depth Range: 39.00 - 43.00 m

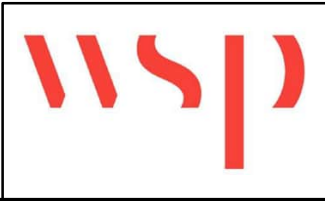
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		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 4/27



PointID : BHT-02 Depth Range: 43.00 - 47.00 m



PointID : BHT-02 Depth Range: 47.00 - 51.00 m

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		CHECKED	GEM	DATE	7/10/2024
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		PROJECT No	PS138693		FIGURE No 5/27



DRAWN	RC/PL	DATE	20/08/2024
CHECKED	GEM	DATE	7/10/2024
SCALE			A4
Not To Scale			
PROJECT No		FIGURE No	
PS138693		6/27	



Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Core Photo - BHT-02

DRAWN

RC/PL

DATE

20/08/2024

CHECKED

GEM

	DATE
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7/10/2024

SCALE

Not To Scale

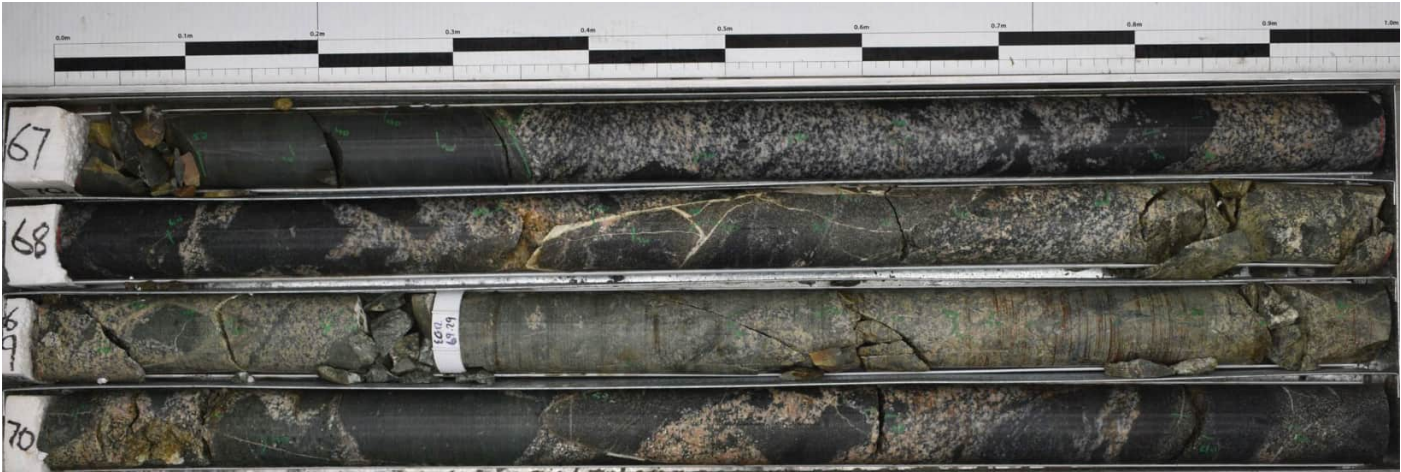
A4

PROJECT No

PS138693

FIGURE No

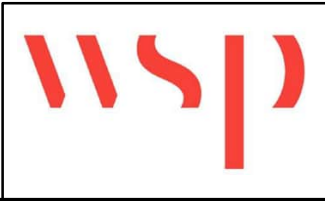
7/27

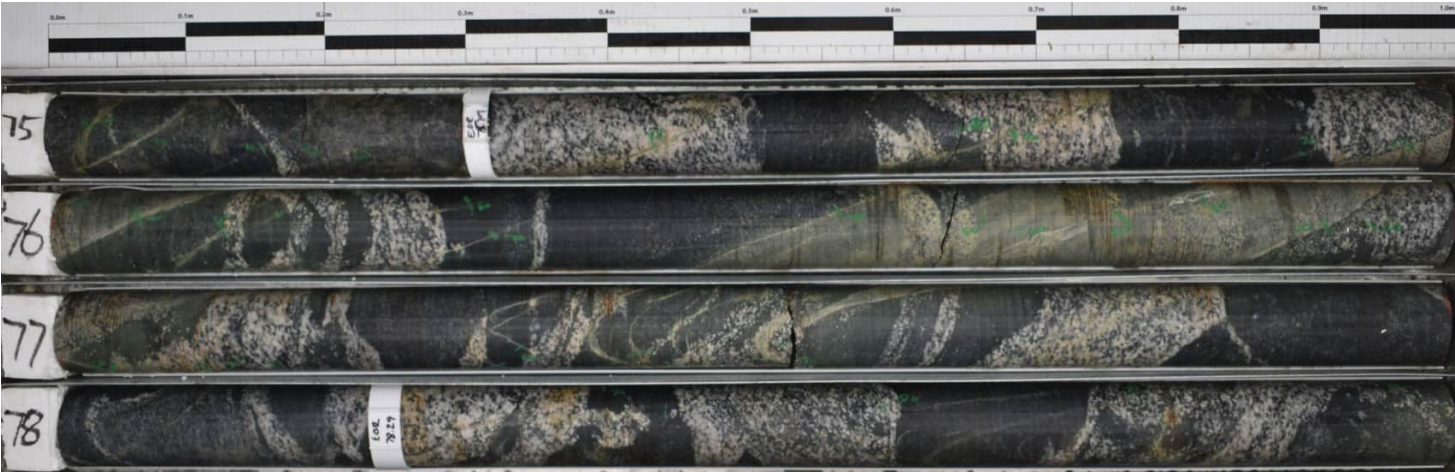


PointID : BHT-02 Depth Range: 67.00 - 71.00 m



PointID : BHT-02 Depth Range: 71.00 - 75.00 m

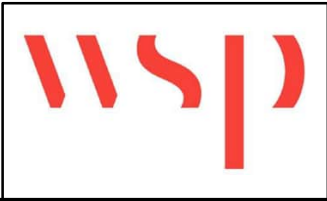
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		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 8/27

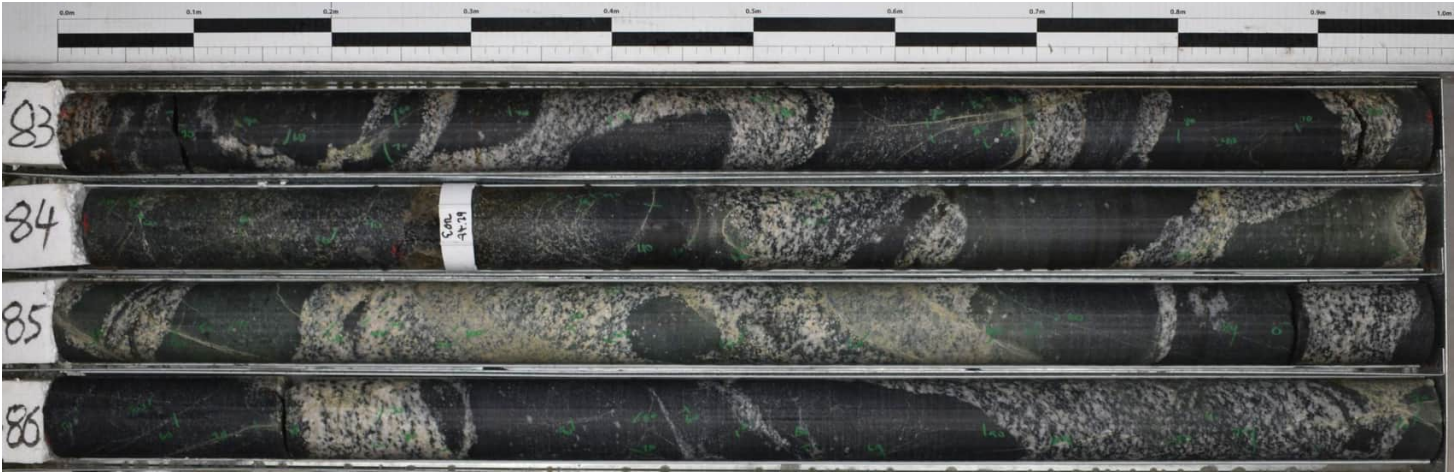


PointID : BHT-02 Depth Range: 75.00 - 79.00 m



PointID : BHT-02 Depth Range: 79.00 - 83.00 m

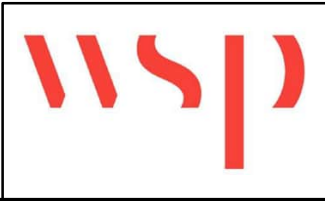
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		CHECKED	GEM	DATE	7/10/2024
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		PROJECT No	PS138693		FIGURE No 9/27

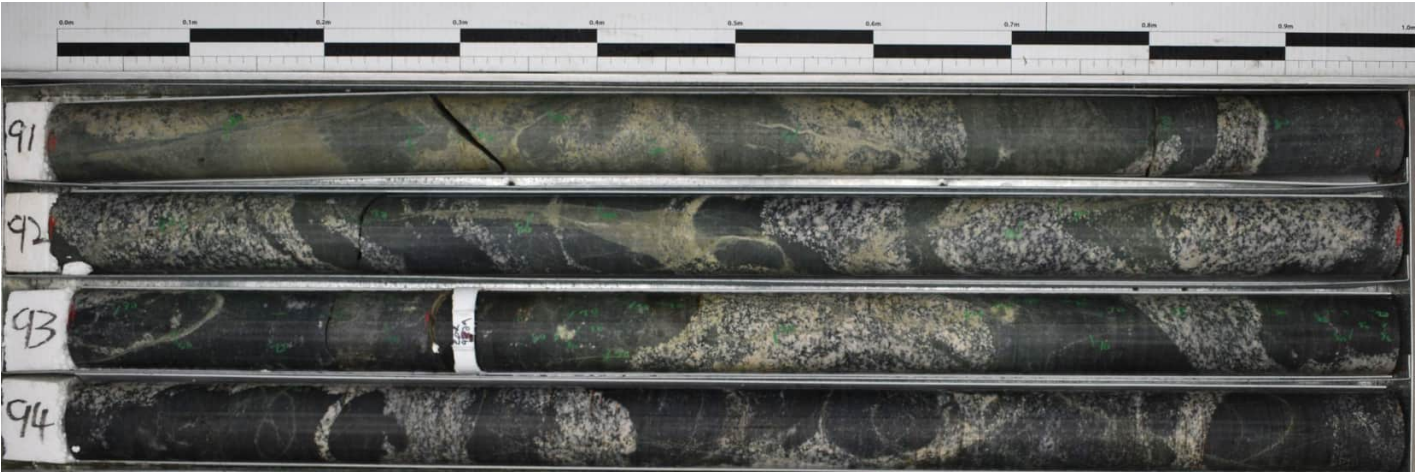


PointID : BHT-02 Depth Range: 83.00 - 87.00 m



PointID : BHT-02 Depth Range: 87.00 - 91.00 m

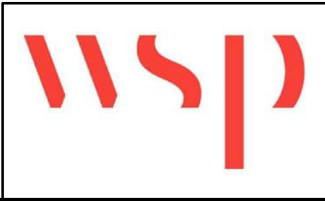
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		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 10/27



PointID : BHT-02 Depth Range: 91.00 - 95.00 m



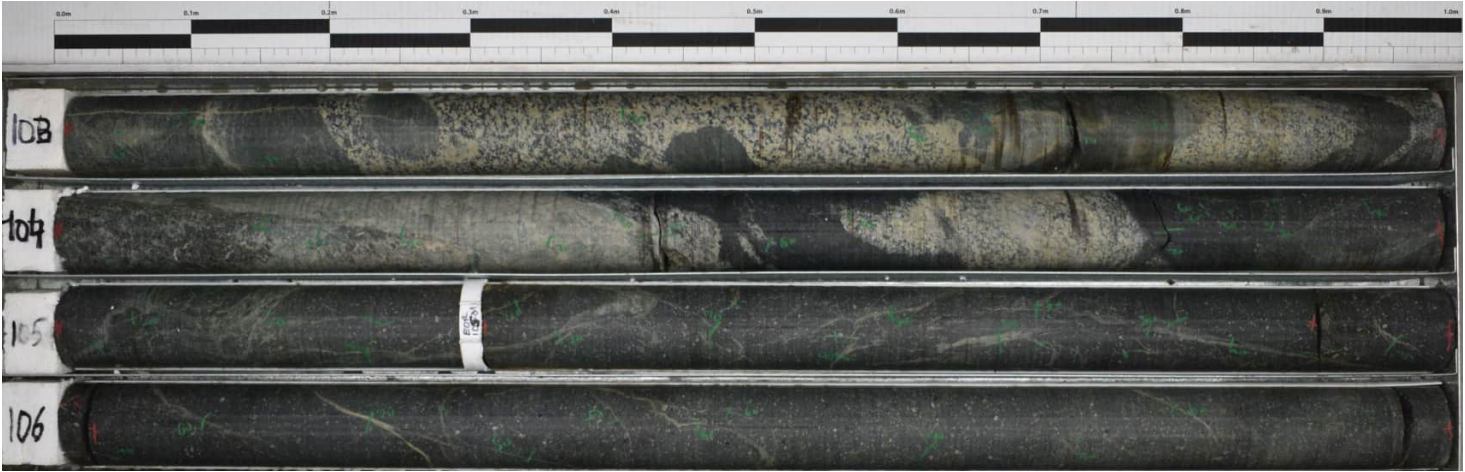
PointID : BHT-02 Depth Range: 95.00 - 99.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 11/27

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PointID : BHT-02 Depth Range: 99.00 - 103.00 m



PointID : BHT-02 Depth Range: 103.00 - 107.00 m

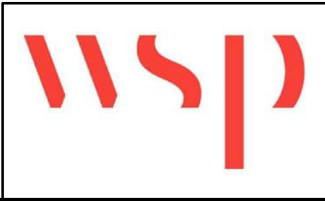
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		CHECKED GEM	DATE 7/10/2024	
		SCALE Not To Scale		A4
		PROJECT No PS138693		FIGURE No 12/27



PointID : BHT-02 Depth Range: 107.00 - 111.00 m



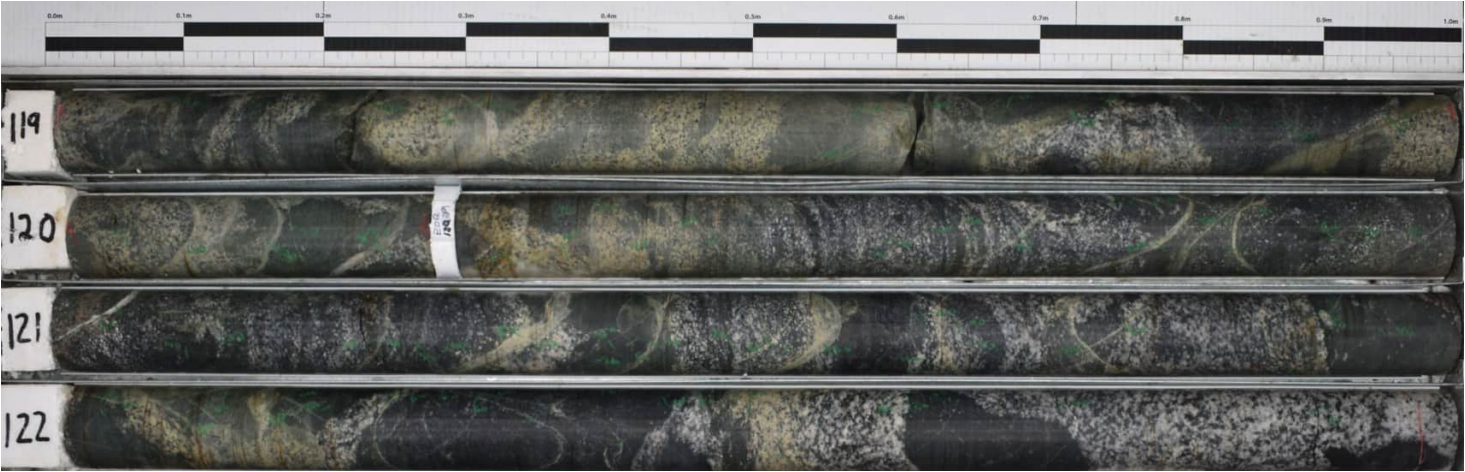
PointID : BHT-02 Depth Range: 111.00 - 115.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE Not To Scale			A4
		PROJECT No PS138693		FIGURE No 13/27	

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PointID : BHT-02 Depth Range: 115.00 - 119.00 m



PointID : BHT-02 Depth Range: 119.00 - 123.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024	
		CHECKED	GEM	DATE	7/10/2024	
		SCALE			Not To Scale	A4
		PROJECT No		PS138693	FIGURE No	

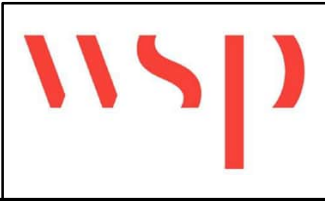
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PointID : BHT-02 Depth Range: 123.00 - 127.00 m

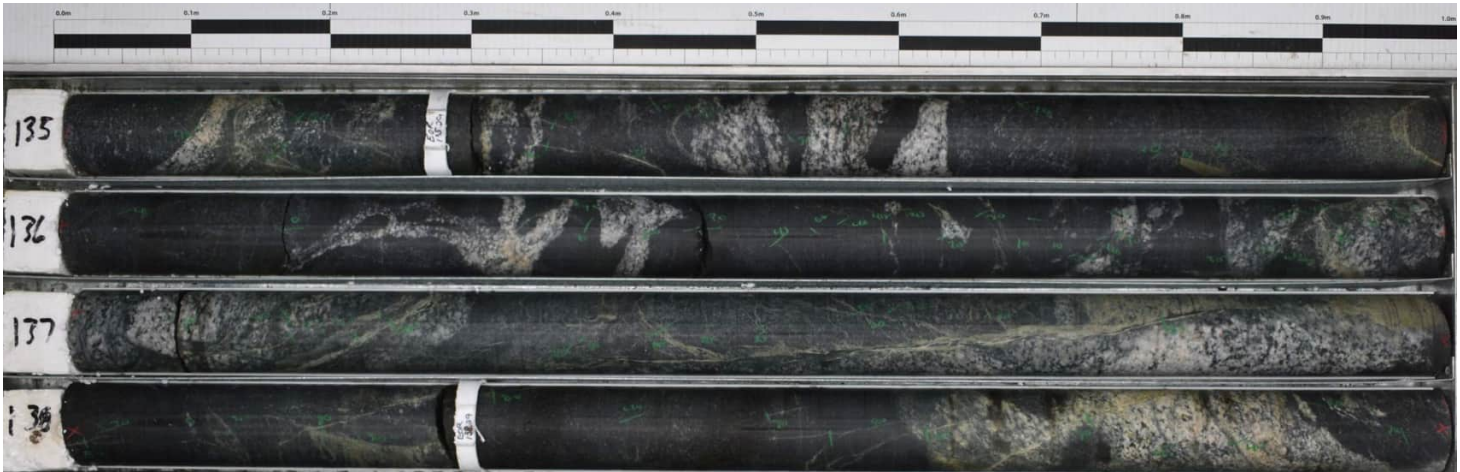


PointID : BHT-02 Depth Range: 127.00 - 131.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE Not To Scale			A4
		PROJECT No PS138693		FIGURE No 15/27	



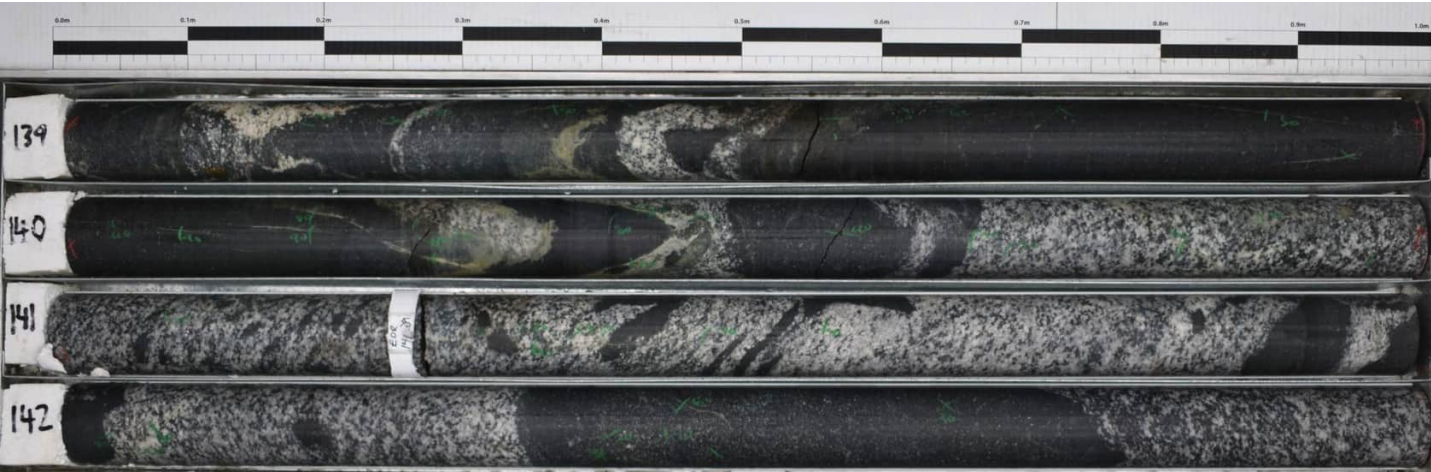
PointID : BHT-02 Depth Range: 131.00 - 135.00 m



PointID : BHT-02 Depth Range: 135.00 - 139.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024	
		CHECKED	GEM	DATE	7/10/2024	
		SCALE			Not To Scale	A4
		PROJECT No		PS138693	FIGURE No	

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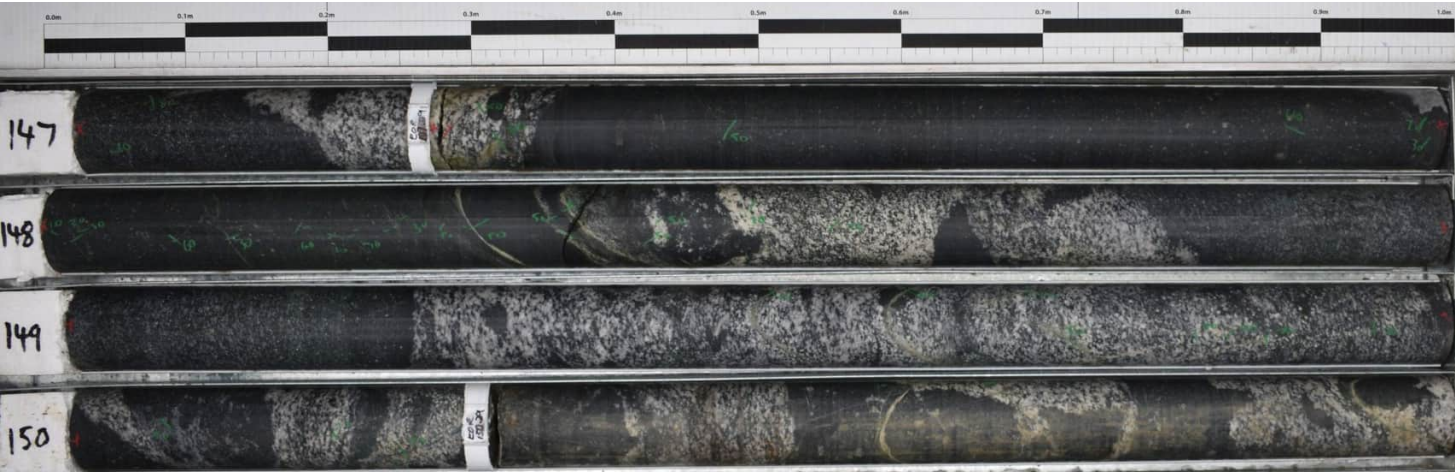


PointID : BHT-02 Depth Range: 139.00 - 143.00 m

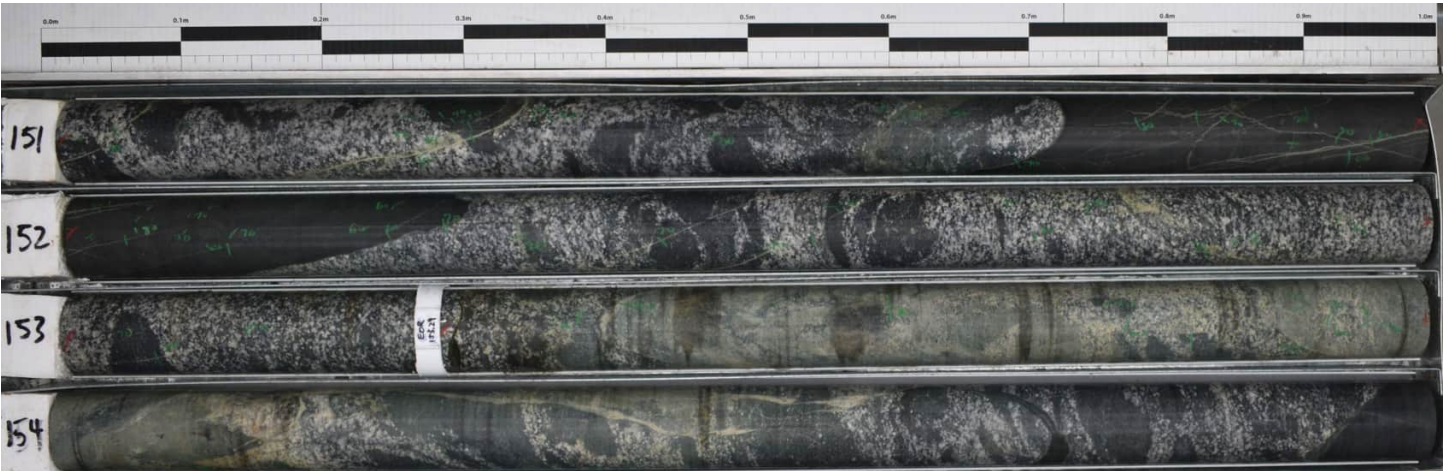


PointID : BHT-02 Depth Range: 143.00 - 147.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024	
		CHECKED	GEM	DATE	7/10/2024	
		SCALE			Not To Scale	A4
		PROJECT No		PS138693	FIGURE No	



PointID : BHT-02 Depth Range: 147.00 - 151.00 m

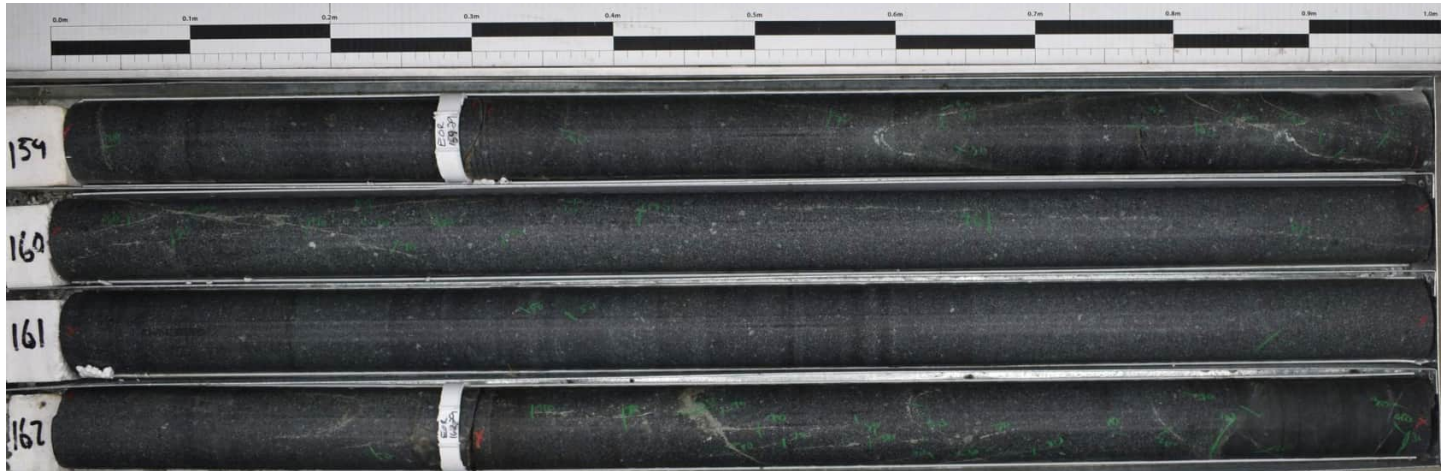


PointID : BHT-02 Depth Range: 151.00 - 155.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN RC/PL	DATE 20/08/2024	
		CHECKED GEM	DATE 7/10/2024	
		SCALE Not To Scale		A4
		PROJECT No PS138693		FIGURE No 18/27

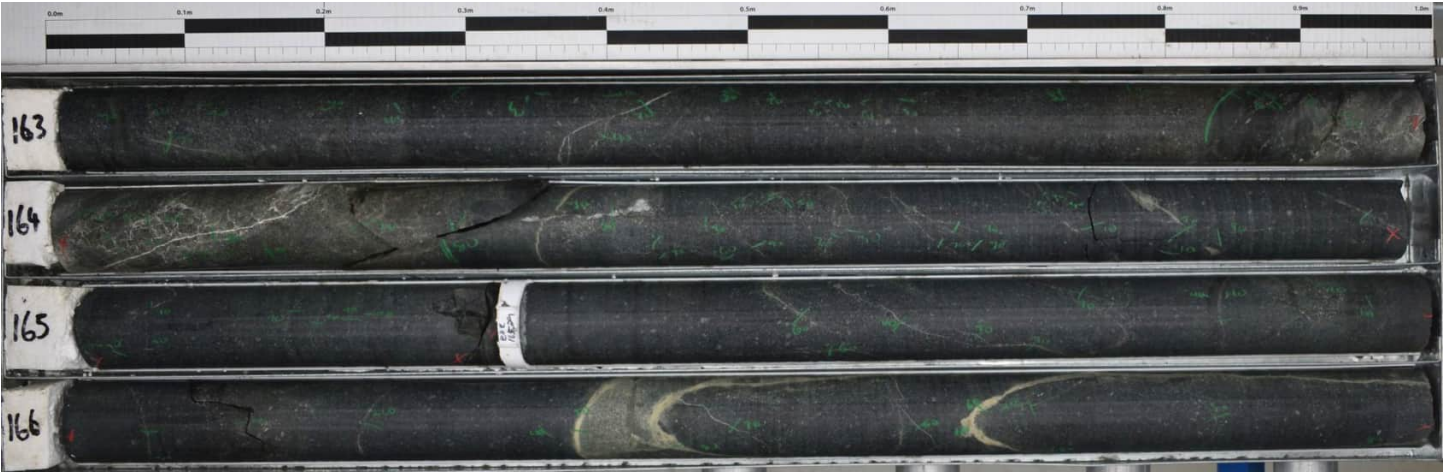


PointID : BHT-02 Depth Range: 155.00 - 159.00 m

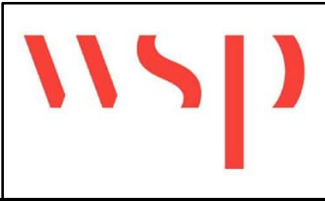


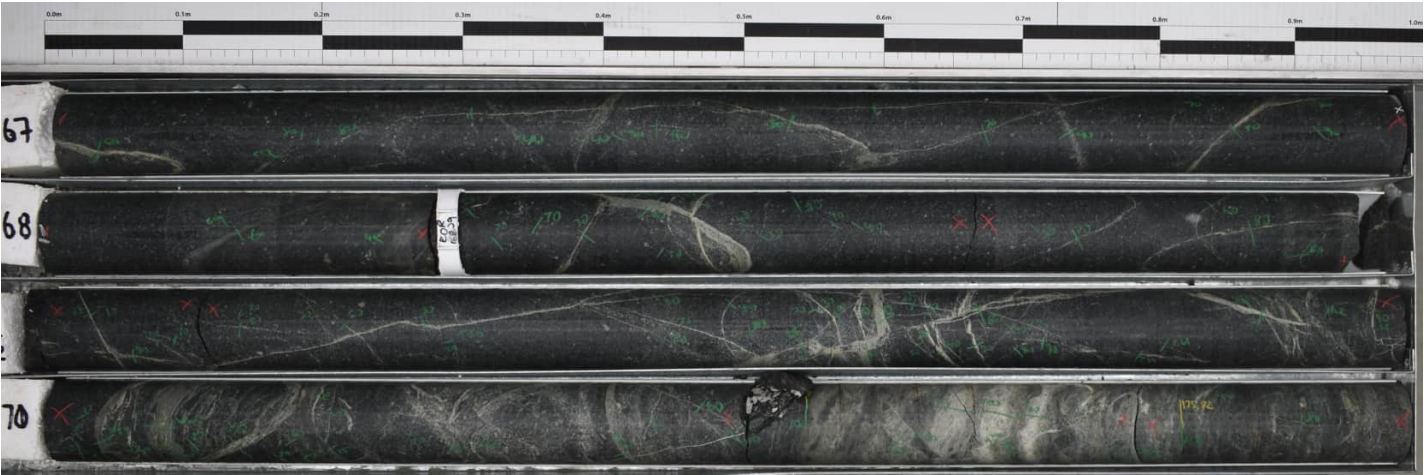
PointID : BHT-02 Depth Range: 159.00 - 163.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024	
		CHECKED	GEM	DATE	7/10/2024	
		SCALE			Not To Scale	A4
		PROJECT No		PS138693	FIGURE No	

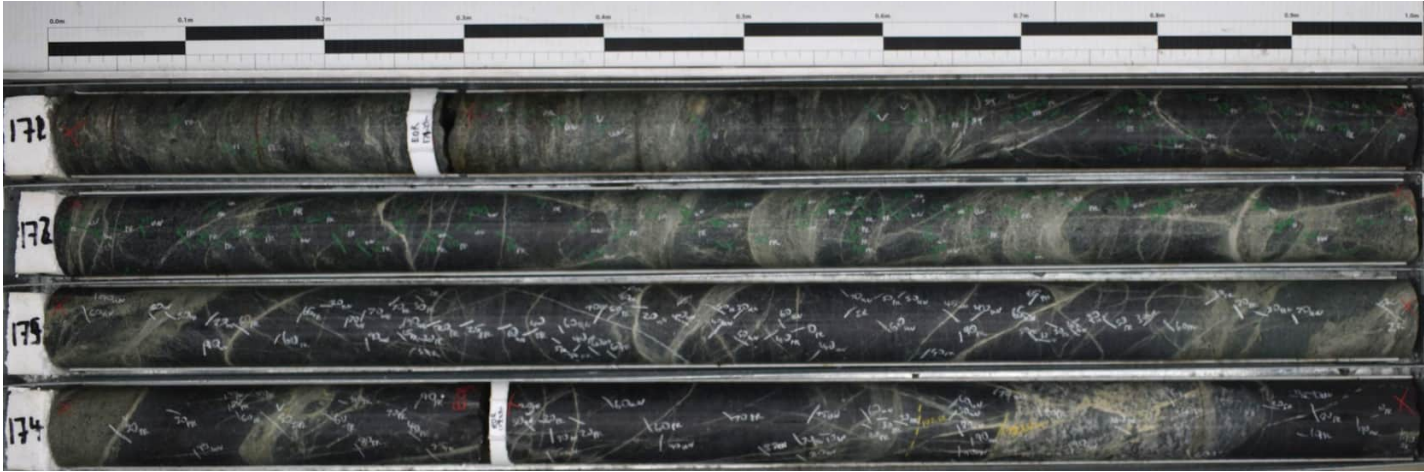


PointID : BHT-02 Depth Range: 163.00 - 167.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 20/27



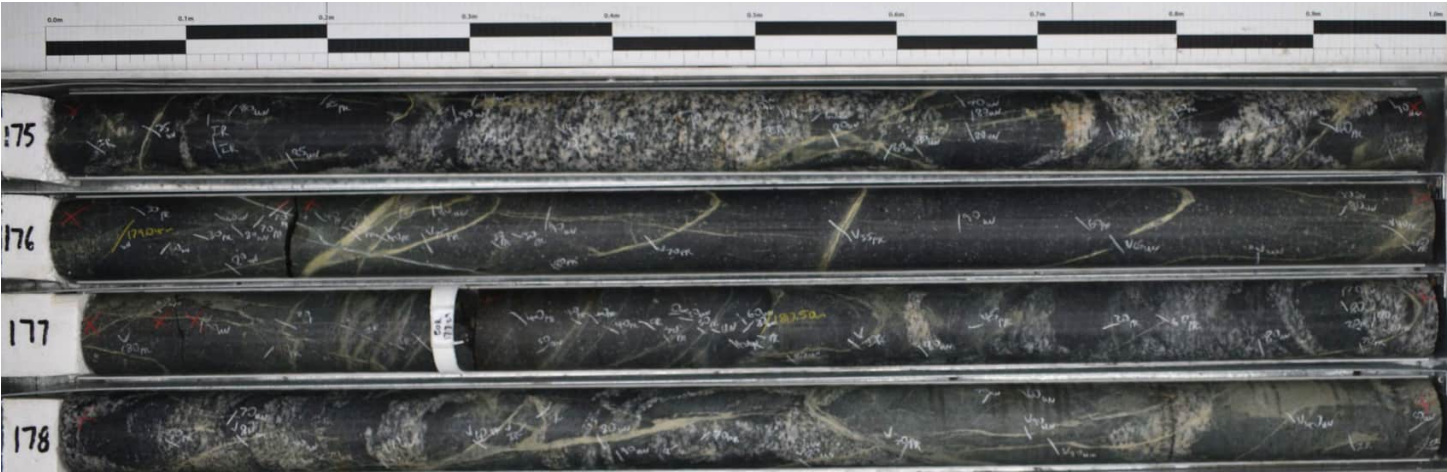
PointID : BHT-02 Depth Range: 167.00 - 171.00 m



PointID : BHT-02 Depth Range: 171.00 - 175.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN RC/PL	DATE 20/08/2024	
		CHECKED GEM	DATE 7/10/2024	
		SCALE Not To Scale		A4
		PROJECT No PS138693		FIGURE No 21/27

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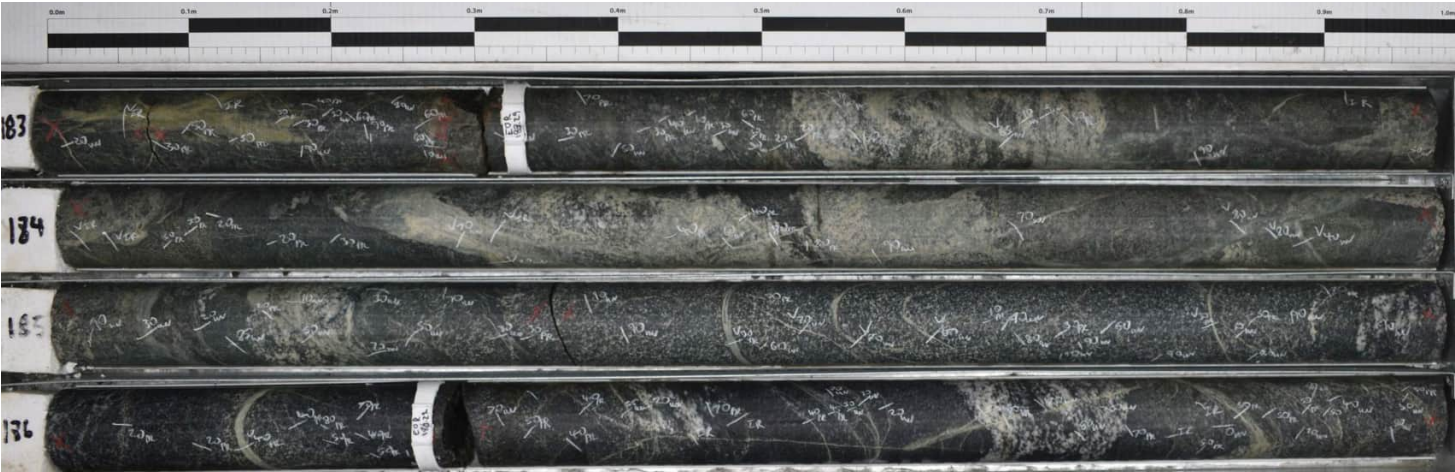


PointID : BHT-02 Depth Range: 175.00 - 179.00 m

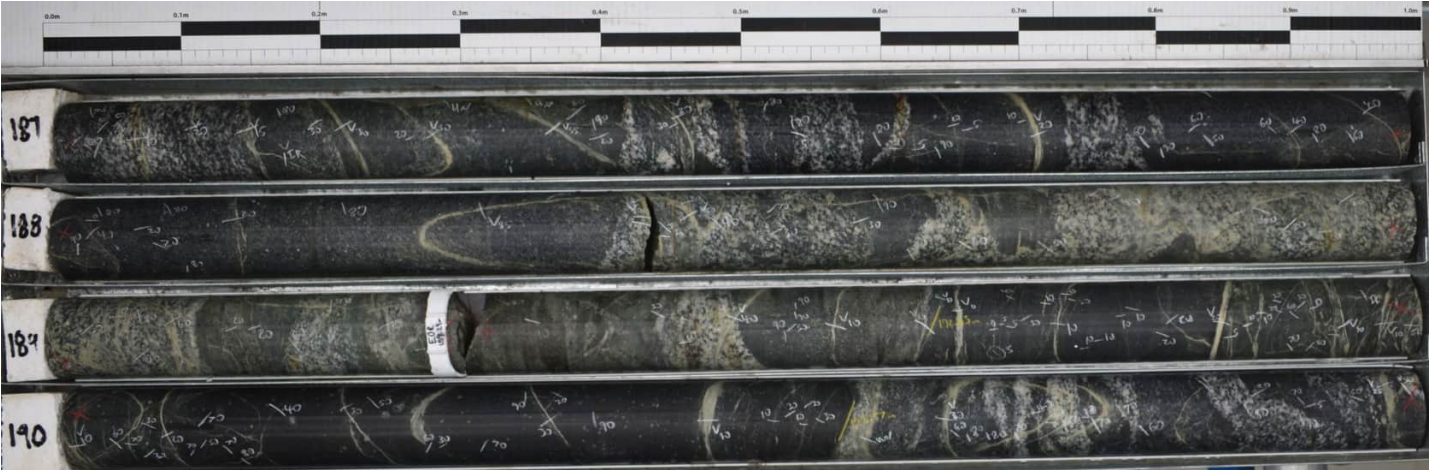


PointID : BHT-02 Depth Range: 179.00 - 183.00 m

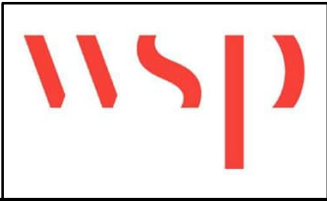
	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024	
		CHECKED	GEM	DATE	7/10/2024	
		SCALE			Not To Scale	A4
		PROJECT No		FIGURE No		
		PS138693		22/27		



PointID : BHT-02 Depth Range: 183.00 - 187.00 m



PointID : BHT-02 Depth Range: 187.00 - 191.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 23/27

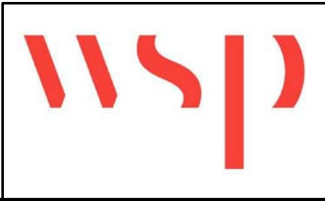
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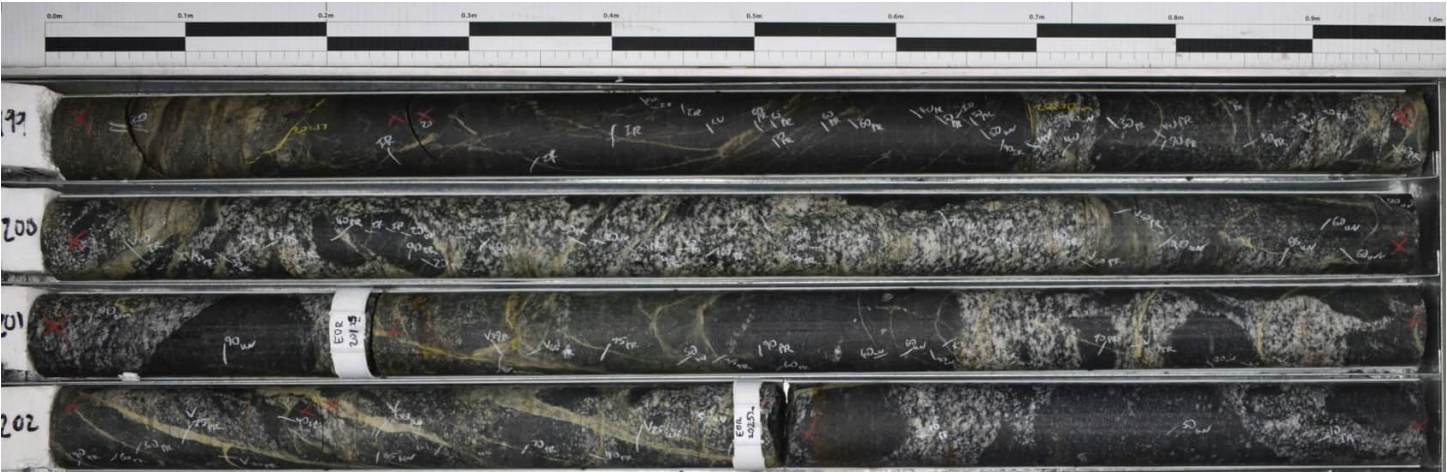


PointID : BHT-02 Depth Range: 191.00 - 195.00 m

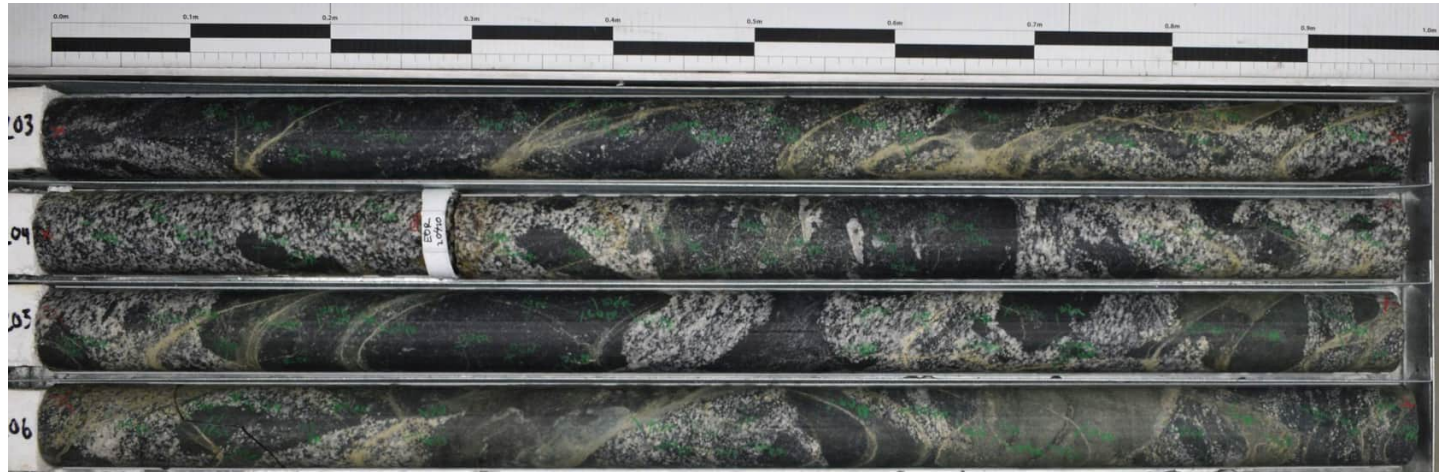


PointID : BHT-02 Depth Range: 195.00 - 199.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 24/27



PointID : BHT-02 Depth Range: 199.00 - 203.00 m



PointID : BHT-02 Depth Range: 203.00 - 207.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 25/27

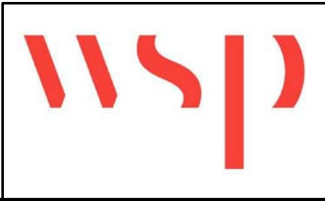
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PointID : BHT-02 Depth Range: 207.00 - 211.00 m



PointID : BHT-02 Depth Range: 211.00 - 215.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE Not To Scale			A4
		PROJECT No PS138693		FIGURE No 26/27	

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PointID : BHT-02 Depth Range: 215.00 - 219.00 m

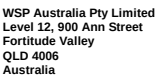


PointID : BHT-02 Depth Range: 219.00 - 222.28 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core Photo - BHT-02	DRAWN	RC/PL	DATE	20/08/2024
		CHECKED	GEM	DATE	7/10/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 27/27

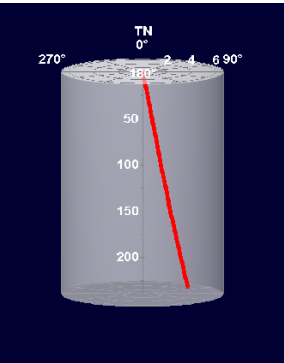
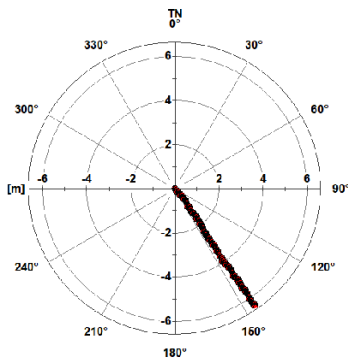


BHT-02 Structural Log



PROJECT:	Pioneer-Burdekin PHES	JOB #	PS138693
CLIENT:	Queensland Hydro	DATE:	15/05/2024

BOREHOLE DEVIATION



BOREHOLE DETAILS

DOCUMENT DETAILS

NOTES

LOCATION:	Upper Reservoir	BH DEPTH:	222.3 m
EASTING:	657034.312 m E	BH DIAMETER:	96 mm (HQ)
NORTHING:	7666286.266 m N	BH AZIMUTH:	145°
ELEVATION:	860.328 m	BH PLUNGE:	-88°
COORD SYSTEM:	MGA2020-55	CASING DEPTH:	13.4 m
LOGGING DATUM:	Ground Level	CASING TYPE:	HWT

LOGGED BY: GH / HC

LOGGED DATE: 01/12/2023

DRAWN BY: GH / SB

REVIEWED BY: GH

FILE: BHT-02_Structure_RevC

LOGGED DEPTH: 222.21 m

Image logs are oriented relative to magnetic north. Final structure log is oriented relative to true north using magnetic declination of 8.2° East.

Image orientation affected by steel casing above 14.5 m.

Mechanical calliper log used for structure dip corrections

All logs zeroed to ground level. Cased section assumed straight for deviation calculations.

INTERPRETED STRUCTURES



Depth		Image Logs				BHT-02							Structural Data				Core
Depth	RL m	Reflectivity	Amplitude-NM HPF	Image-NM Proc	Apparent Structures					3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo			
1m:20m	AHD	09500	07000	0°90°180°270°0°	0°90°180°270°0°	0°90°180°270°0°	0°	-0°	090	counts/m18	Schmidt Plot - LH - Type	Core Photo					
13.5																	
14.0																	
14.5																	
15.0																	
15.5																	
16.0																	
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18.0																	
18.5																	
1m:20m	AHD	09500	07000	0°90°180°270°0°	0°90°180°270°0°	0°90°180°270°0°	0°	-0°	090	counts/m18	Schmidt Plot - LH - Type	Core Photo					
Depth	RL m	Reflectivity	Amplitude-NM HPF	Image-NM Proc	Apparent Structures					3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo			

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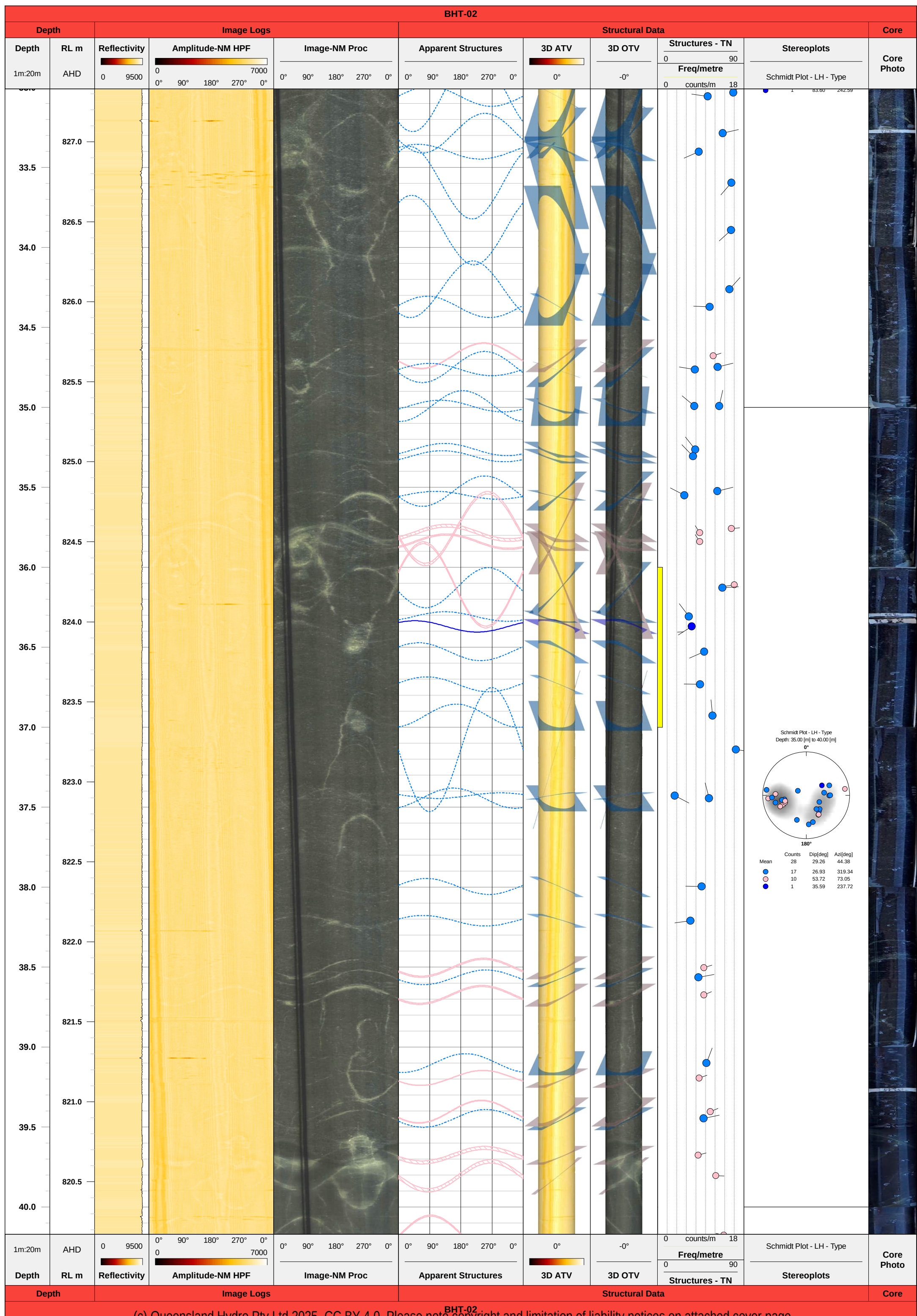
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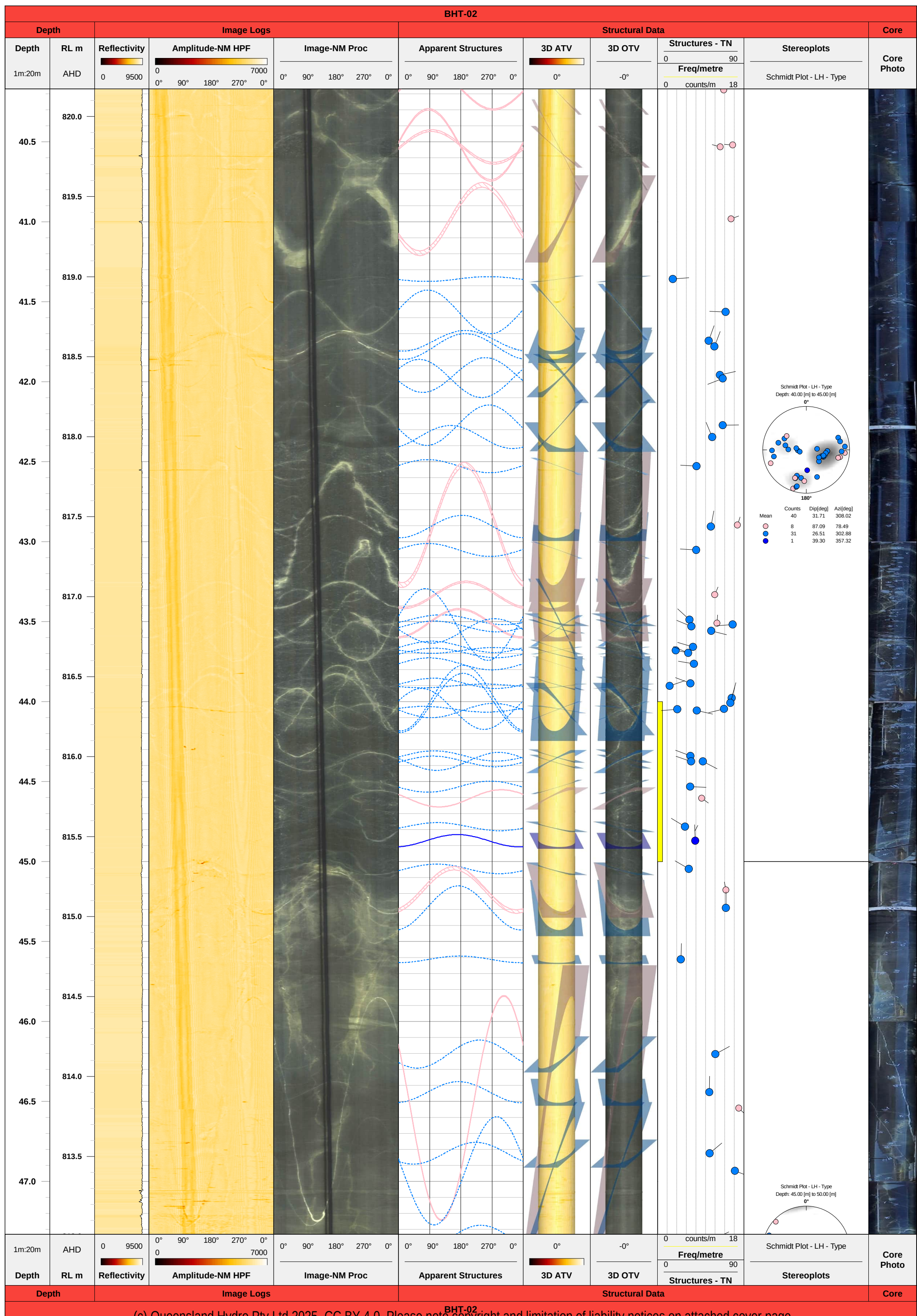
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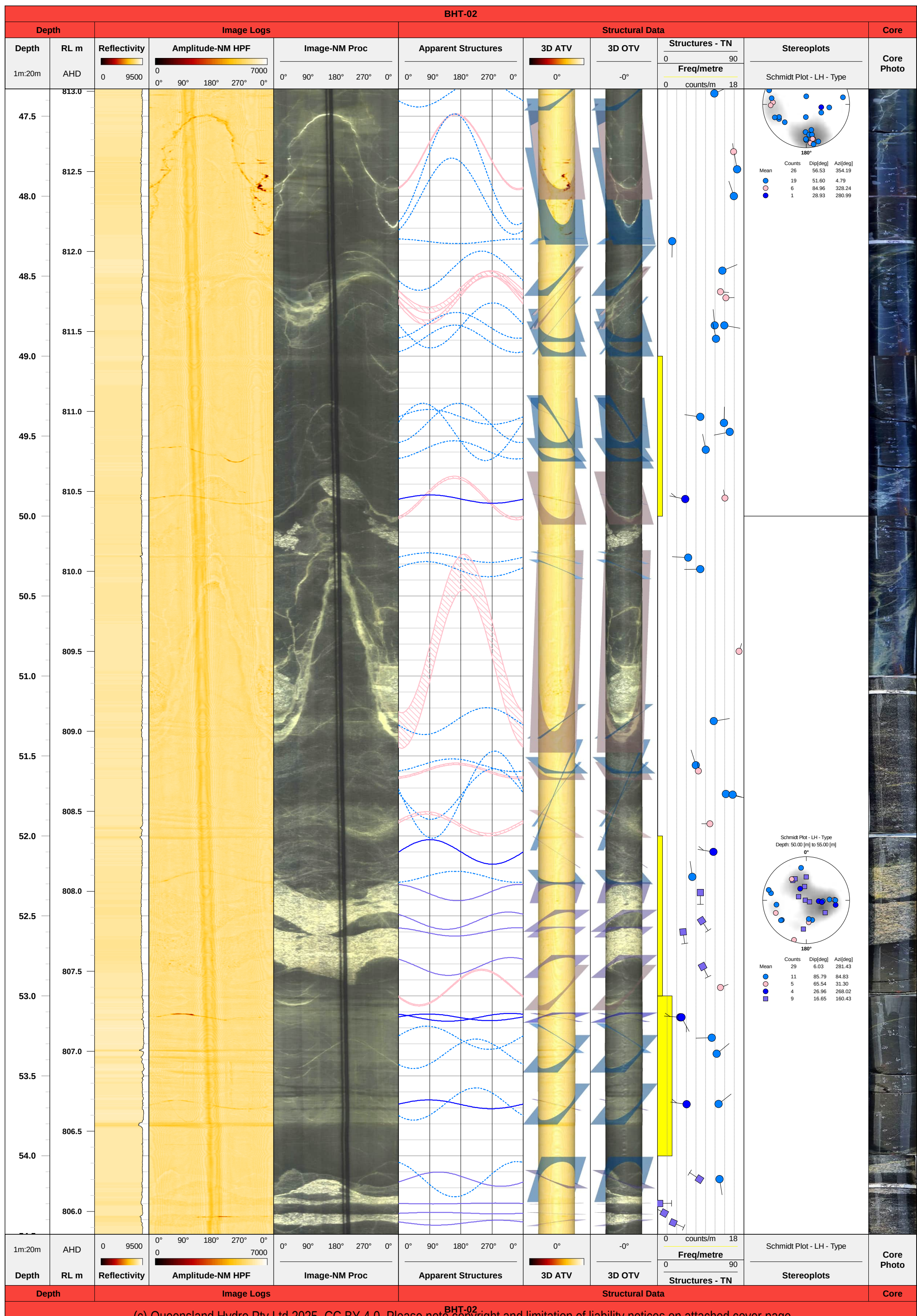
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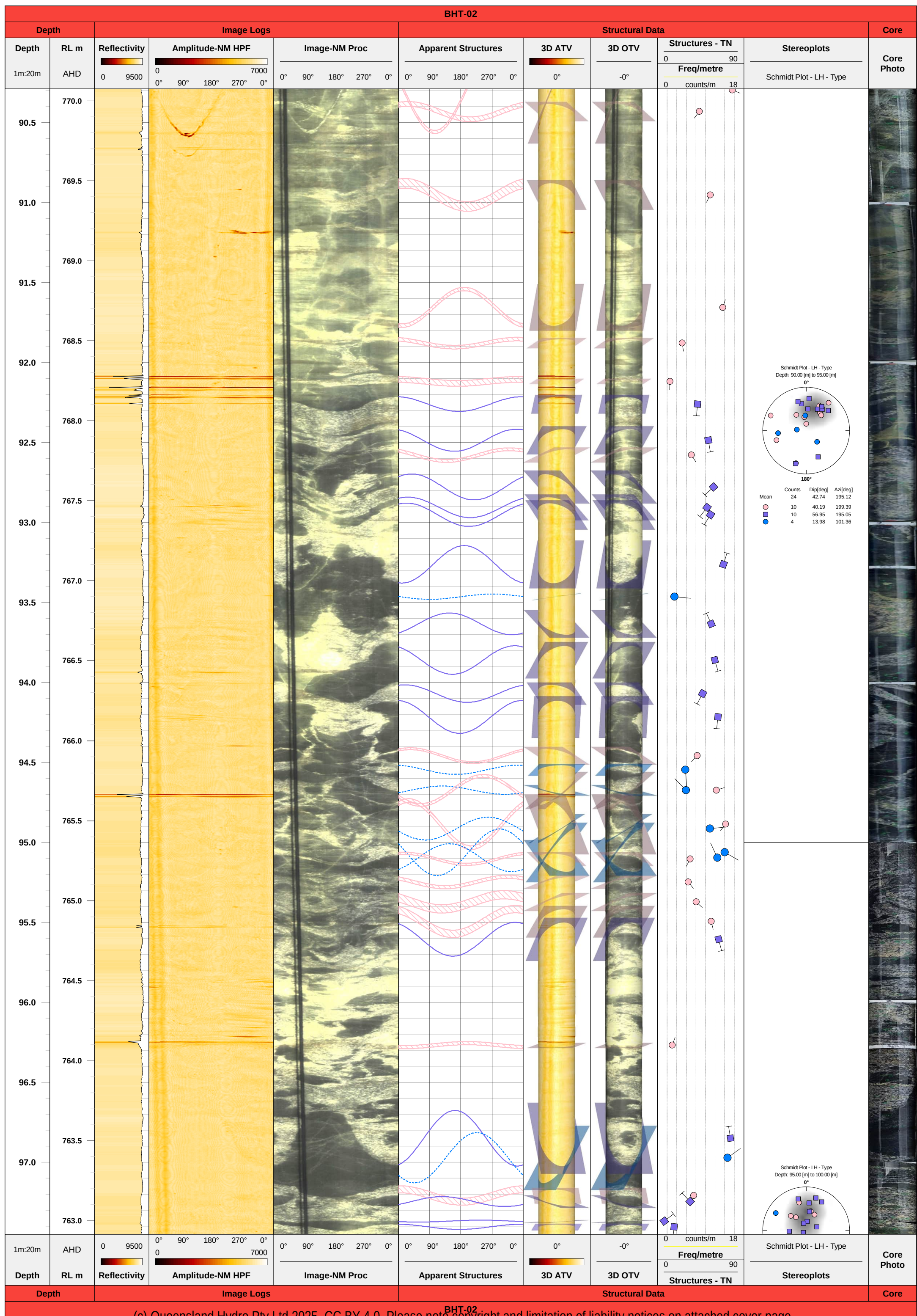
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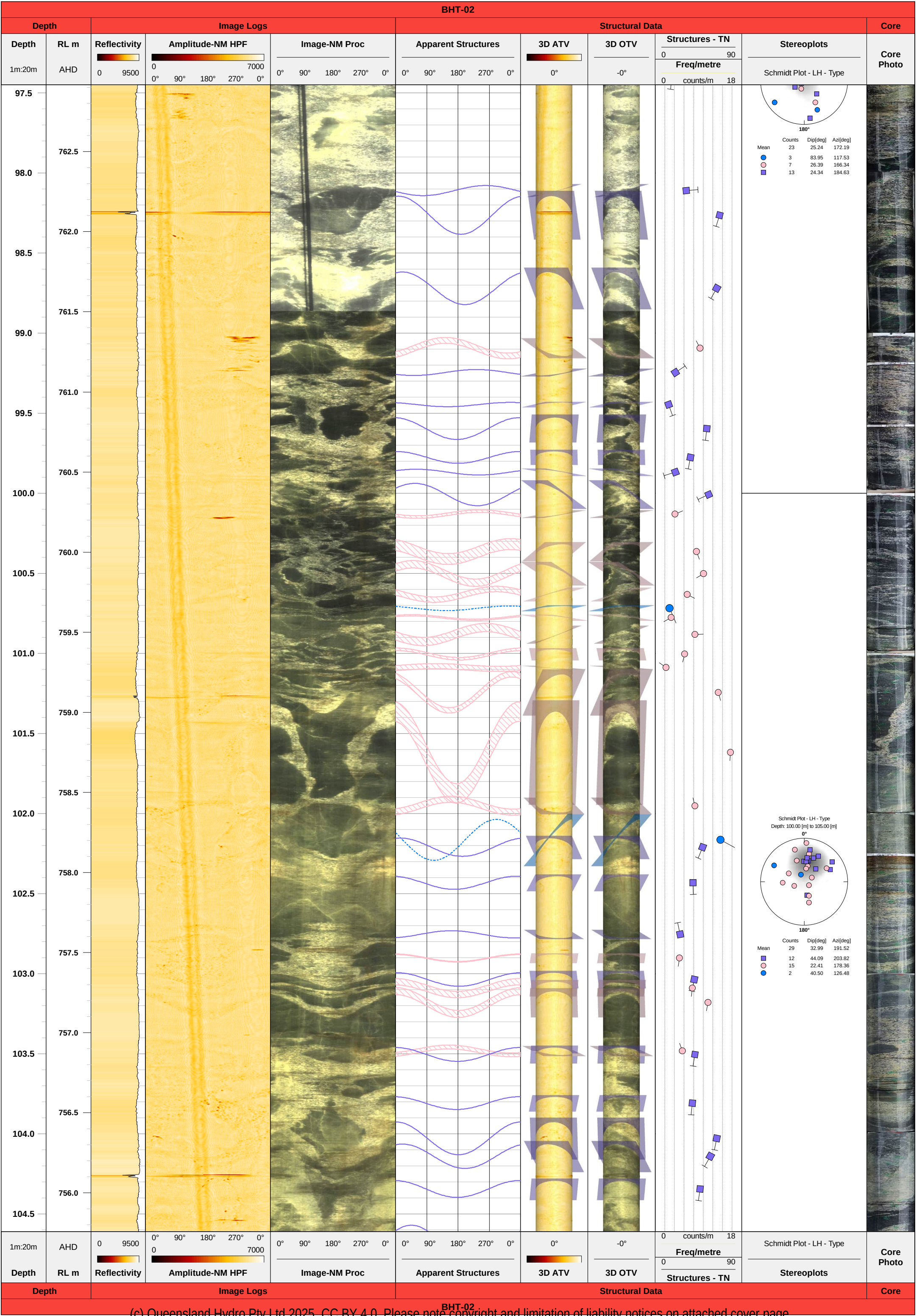
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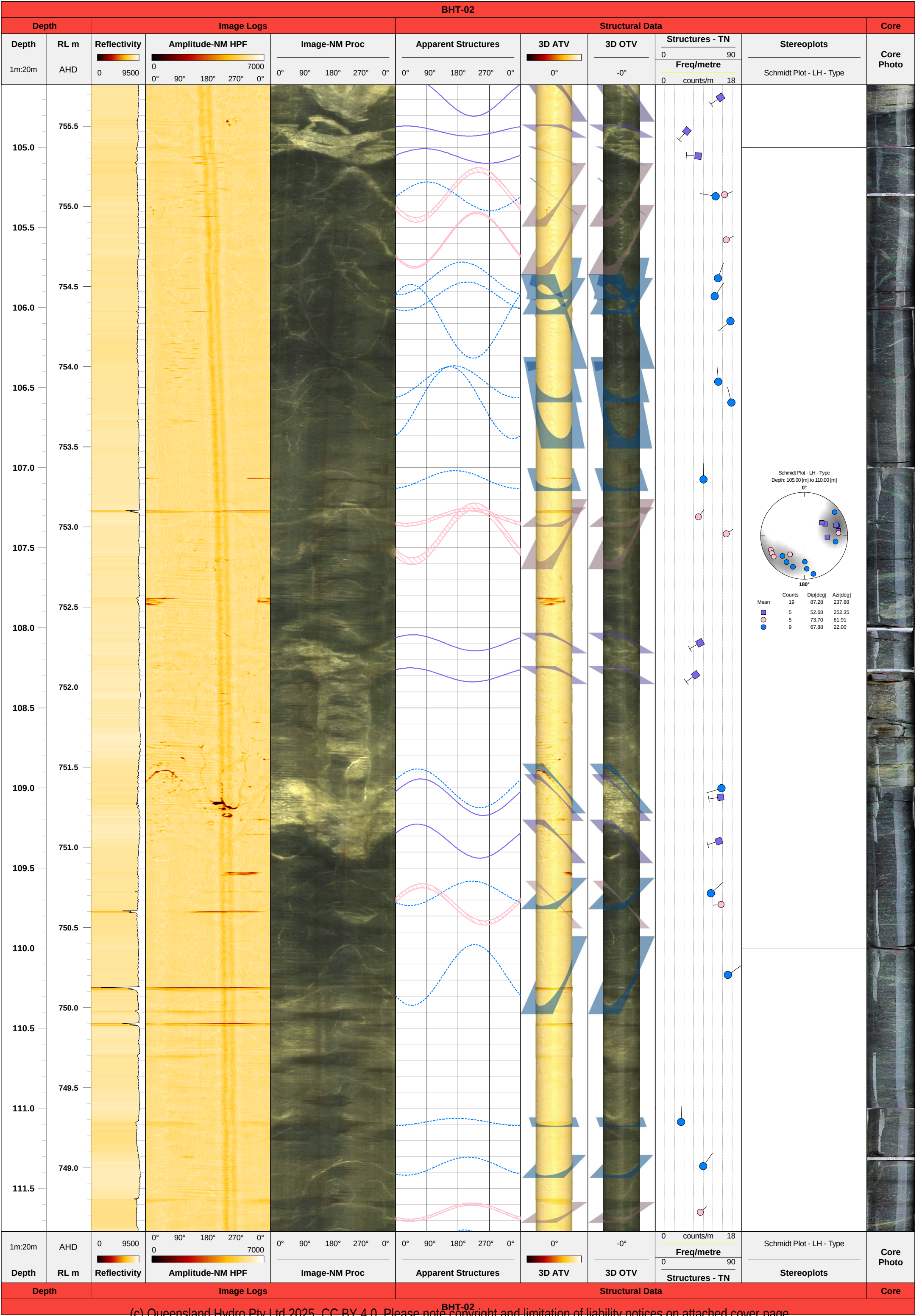


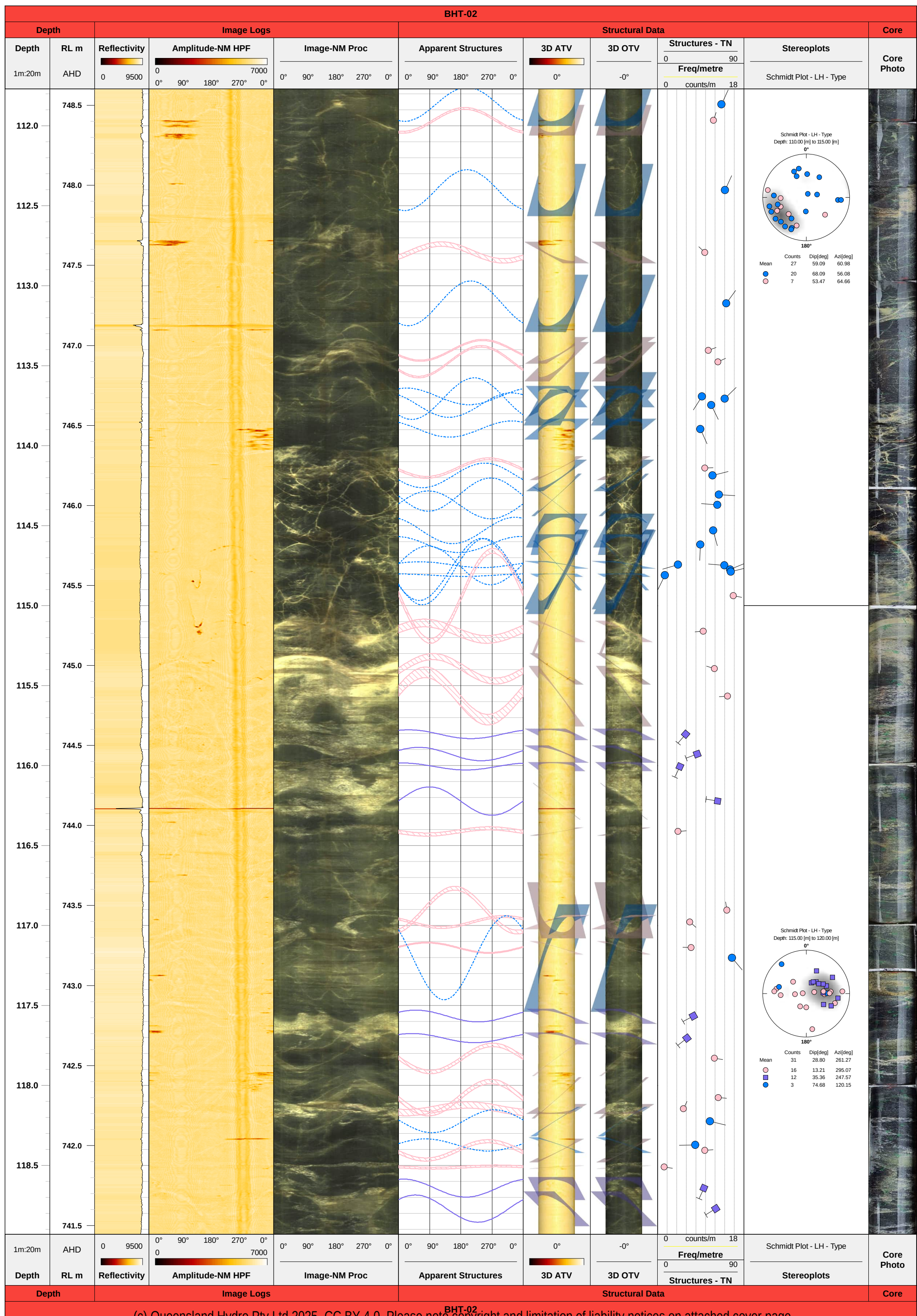


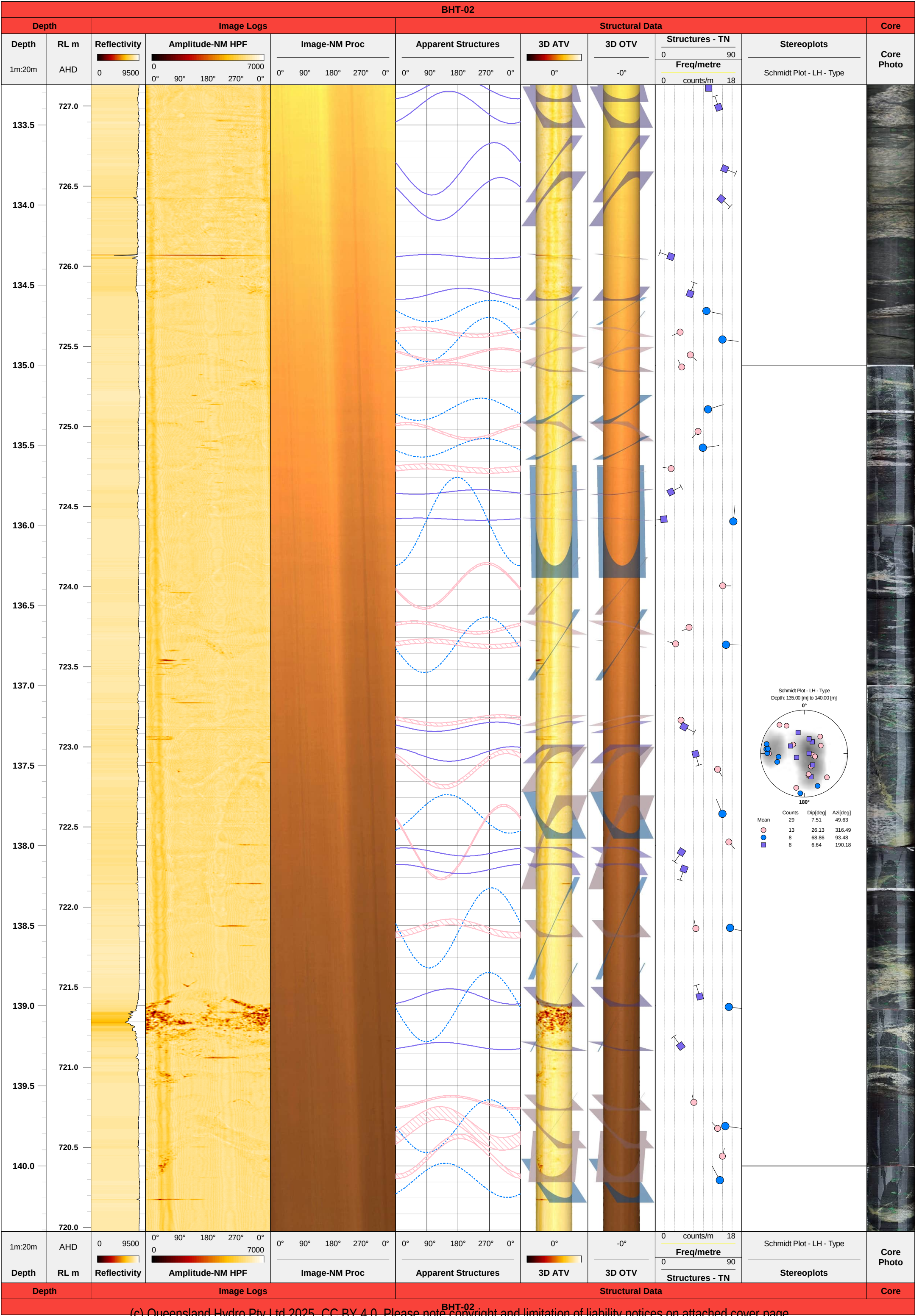


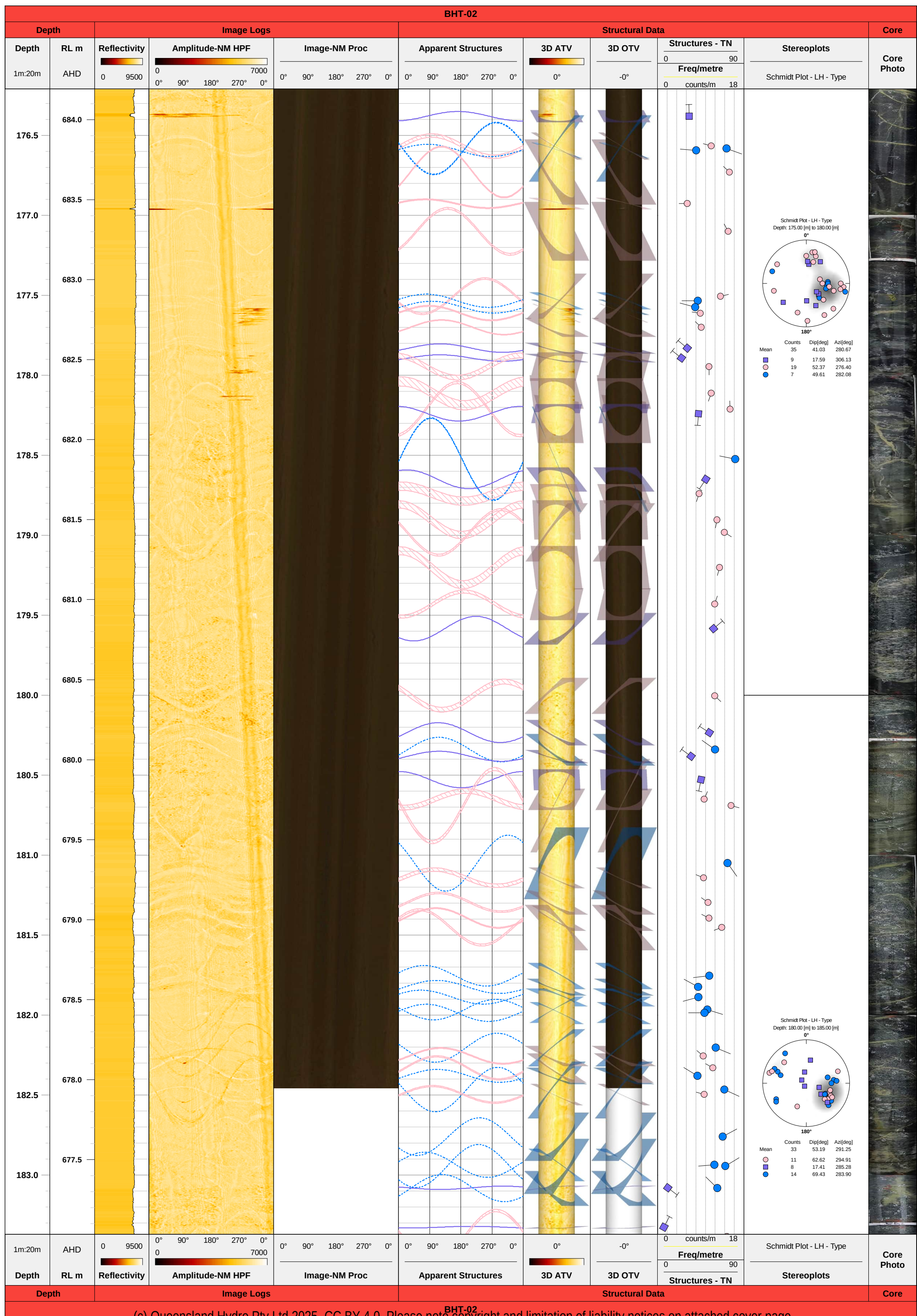


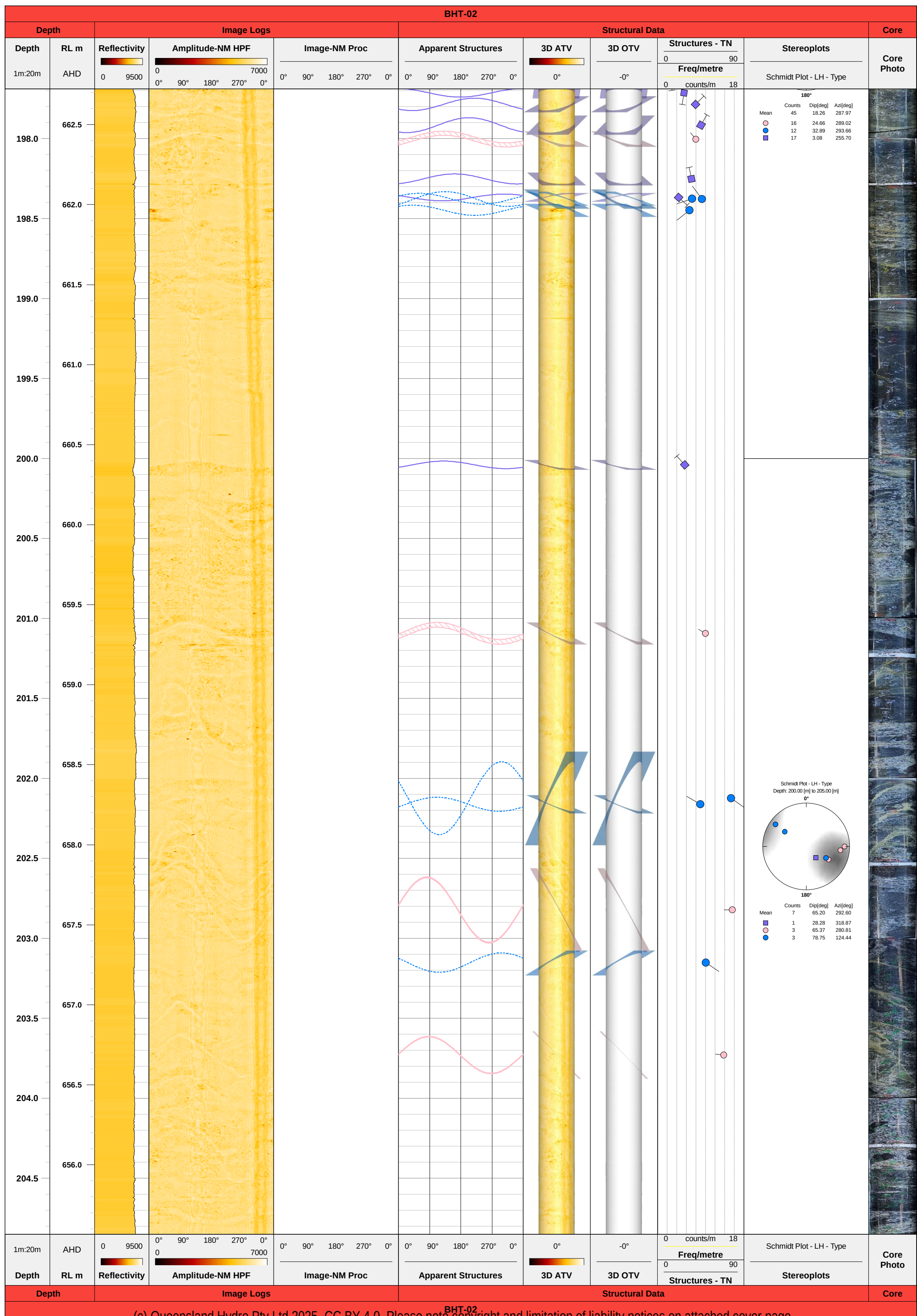


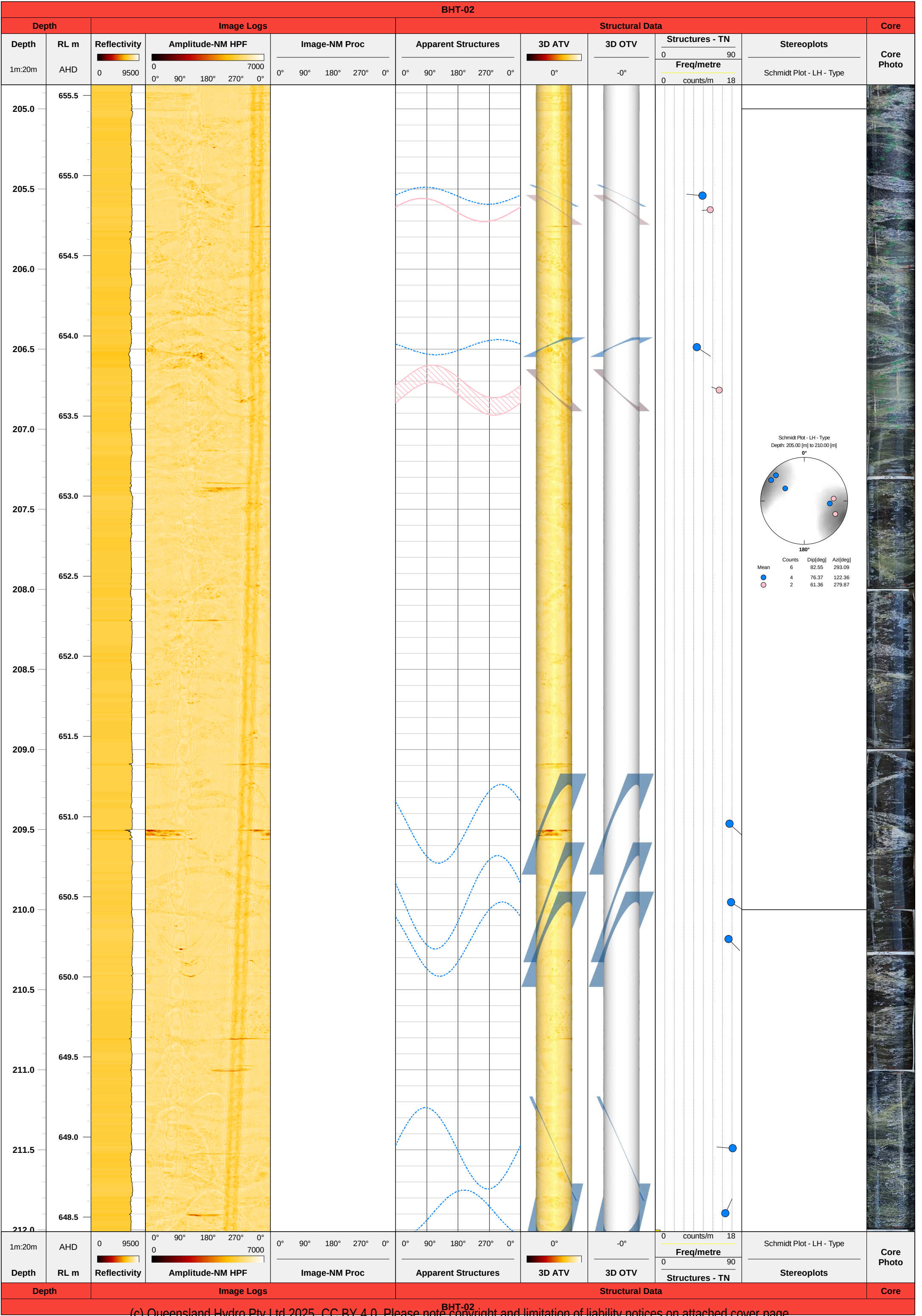








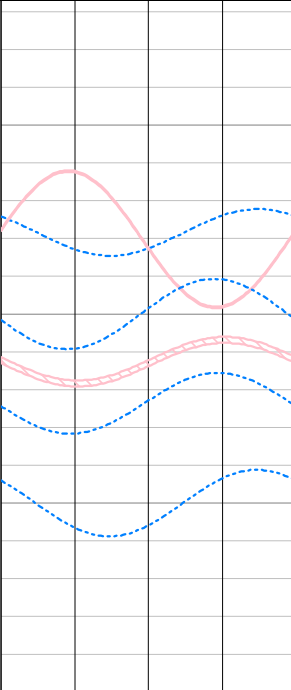
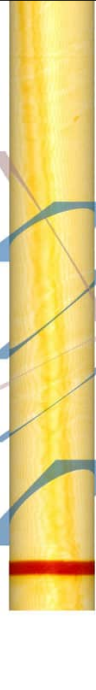
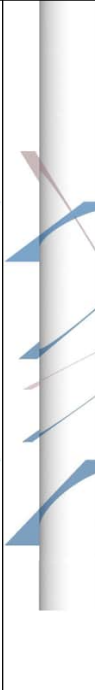
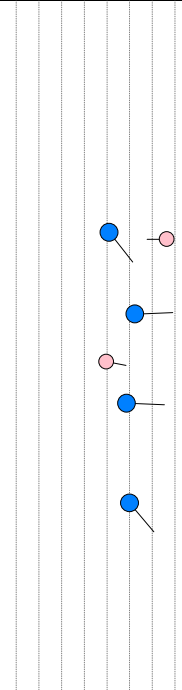




BHT-02											
Depth		Image Logs				Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-NM HPF	Image-NM Proc	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo	
1m:20m	AHD	09500	07000	0°90°180°270°0°	0°90°180°270°0°	0°	-0°	090	Schmidt Plot - LH - Type	Core Photo	
								Freq/metre	Schmidt Plot - LH - Type		
								0counts/m18			
212.5	648.0								Schmidt Plot - LH - Type Depth: 210.00 [m] to 215.00 [m] 0°180° CountsDip[deg]Azi[deg] 964.83284.27 387.43113.22 135.02116.05 555.39282.09		
213.0	647.5										
213.5	647.0										
214.0	646.5										
214.5	646.0										
215.0	645.5										
215.5	645.0										
216.0	644.5										
216.5	644.0										
217.0	643.5										
217.5	643.0								Schmidt Plot - LH - Type Depth: 215.00 [m] to 220.00 [m] 0°180° CountsDip[deg]Azi[deg] 961.32129.46 286.20318.29 760.88127.53		
218.0	642.5										
218.5	642.0										
219.0	641.5										
1m:20m	AHD	09500	07000	0°90°180°270°0°	0°90°180°270°0°	0°	-0°	090	Schmidt Plot - LH - Type	Core Photo	
Depth	RL m	Reflectivity	Amplitude-NM HPF	Image-NM Proc	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo	
Depth		Image Logs			Structural Data						Core

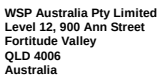
BHT-02

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BHT-02										
Depth		Image Logs				Structural Data				
Depth	RL m	Reflectivity	Amplitude-NM HPF	Image-NM Proc	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD	0 9500	0 7000 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	
219.5	641.0									
220.0	640.5									
220.5	640.0									
221.0	639.5									
1m:20m	AHD	0 9500	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Photo
Depth	RL m	Reflectivity	Amplitude-NM HPF	Image-NM Proc	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core

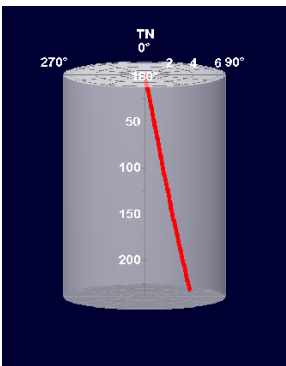


BHT-02 Composite Log



PROJECT:	Pioneer-Burdekin PHES	JOB #	PS138693
CLIENT:	Queensland Hydro	DATE:	15/05/2024

A polar plot showing the normalized cross-spectrum $S_{xx}^{*}(\omega)$ for the 1994 Northridge earthquake. The radial axis represents the magnitude in m/s^2 , ranging from 0 to 6. The angular axis represents the phase in degrees, ranging from 0° to 360° in 30° increments. A prominent peak is visible at approximately 160° and 0.5 m/s^2 .



BOREHOLE DETAILS

DOCUMENT DETAILS

NOTES

LOCATION:	Upper Reservoir	BH DEPTH:	222.3 m
EASTING:	657034.312 m E	BH DIAMETER:	96 mm (HQ)
NORTHING:	7666286.266 m N	BH AZIMUTH:	145°
ELEVATION:	860.328 m	BH PLUNGE:	-88°
COORD SYSTEM:	MGA2020-55	CASING DEPTH:	13.4 m
LOGGING DATUM:	Ground Level	CASING TYPE:	HWT

LOGGED BY: GH / HC

LOGGED DATE: 01/12/20.

DRAWN BY: GH/SB

REVIEWED BY: GH

FILE: BHT-02_Composite_RevC

LOGGED DEPTH: 222.21 m

Image logs are oriented relative to magnetic north. Final structure log is oriented relative to true north using magnetic declination of 8.2° East.

Image orientation affected by steel casing above 14.5 m.

Mechanical calliper log used for structure dip corrections

All logs zeroed to ground level. Cased section assumed straight for deviation calculations.

INTERPRETED STRUCTURES



BHT-02														
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs			Electrical Logs		
Depth	Amplitude-NM HPF 07000 0° 90° 180° 270° 0°	Image-NM Proc 0° 90° 180° 270° 0°	Reflectivity 09500	CAL 80mm160	Structures - TN	3D ATV	Core	Vp	GR 0API250	K	N16		Ma16	
										Th	N32			
					Freq/metre					U	N8	Ma64		
					0 counts/m 18	0°				0 ppm 10	500 Ohm.m 50000	0 ms 50		
1m:50m														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
1m:50m	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	09500	80mm160	0 counts/m 18	0°		1000 m/s 7000	0API250	0ppm10	500 Ohm.m 50000	0ms50		
Depth	Amplitude-NM HPF	Image-NM Proc	Reflectivity	CAL	Structures - TN	3D ATV	Core	Vp	GR	U	N8	Ma16		
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs			Electrical Logs		

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