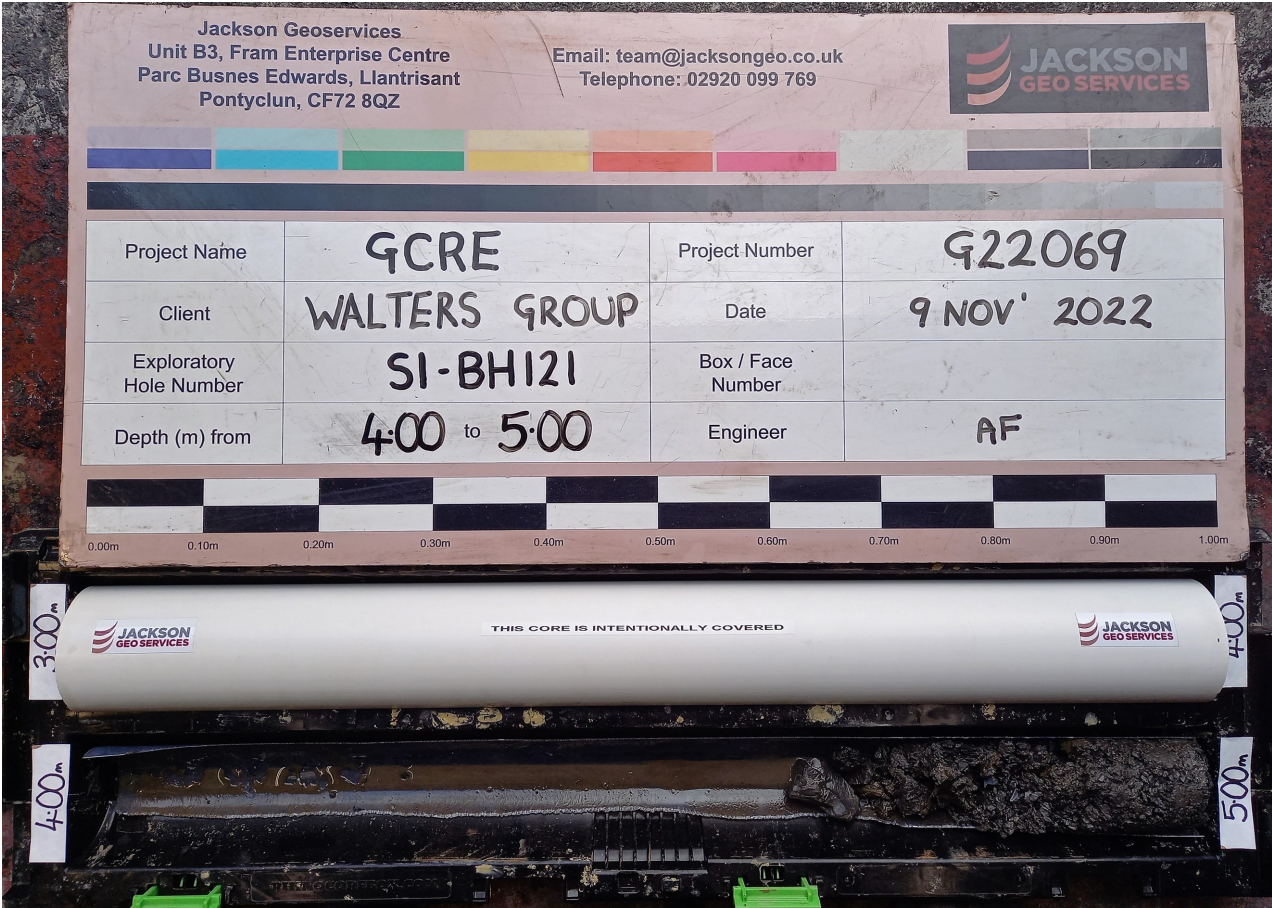


		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.70m depth. Dynamic sampling from 0.70m to 6.50m depth. Rotary coring from 6.50m to 10.50m depth.		Exploratory Hole S1-BH121
Project	Global Centre of Rail Excellence	Easting	284475.72	Equipment	Beretta T44/Insulated Hand Tools	Sheet 2 of 3
Client	Walters UK Limited	Northing	210703.00	Method	RC/DS/IP	
Project No	G22069	Level	230.88 mAOD	Termination Reason	Scheduled depth	



S1-BH121 3.00 m to 4.00 m

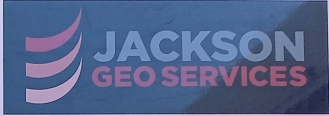


S1-BH121 4.00 m to 5.00 m

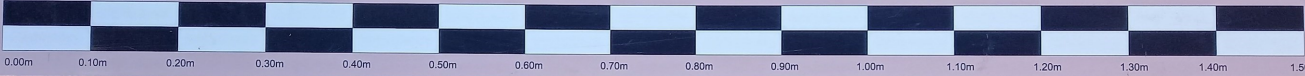
		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.70m depth. Dynamic sampling from 0.70m to 6.50m depth. Rotary coring from 6.50m to 10.50m depth.		Exploratory Hole S1-BH121
Project	Global Centre of Rail Excellence	Easting	284475.72	Equipment	Beretta T44/Insulated Hand Tools	Sheet 3 of 3
Client	Walters UK Limited	Northing	210703.00	Method	RC/DS/IP	
Project No	G22069	Level	230.88 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE	Project Number	G22069
Client	WALTERS GROUP	Date	9 NOV' 2022
Exploratory Hole Number	S1-BH121	Box / Face Number	
Depth (m) from	9.00 to 10.50	Engineer	AF





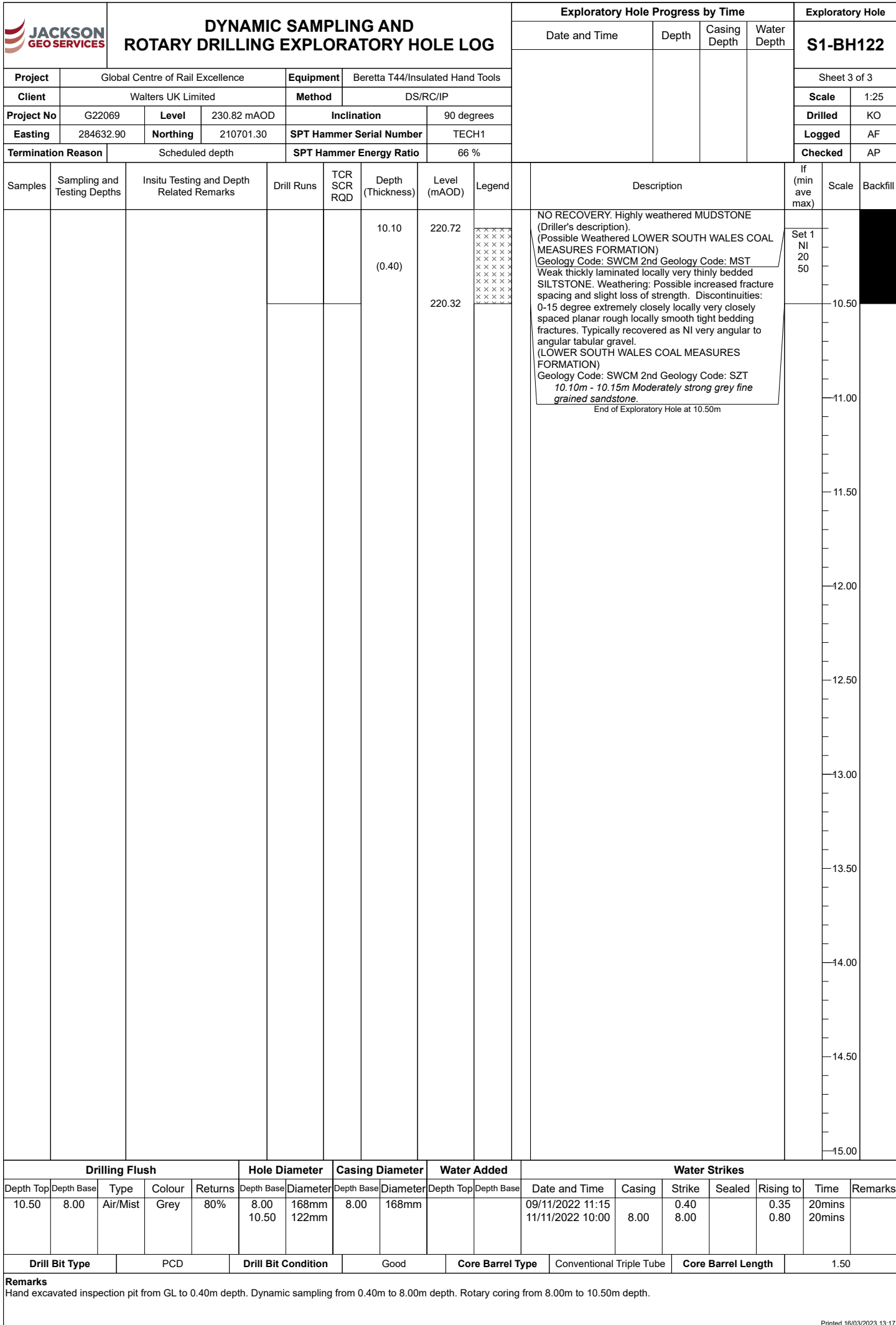
S1-BH121 9.00 m to 10.50 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH122	
09/11/2022 11:10	0.00				
09/11/2022 16:00	5.00	4.00	2.10	Sheet 1 of 3	
11/11/2022 08:30	5.00	4.00	0.80	Scale	1:25
11/11/2022 16:26	10.50	8.00	0.80	Drilled	KO
				Logged	AF
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
10.50	8.00	Air/Mist	Grey	80%	8.00	168mm	8.00	168mm			09/11/2022 11:15 11/11/2022 10:00	8.00	0.40 8.00		0.35 0.80	20mins 20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Triple Tube		Core Barrel Length			1.50	

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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m depth. Dynamic sampling from 0.40m to 8.00m depth. Rotary coring from 8.00m to 10.50m depth.		Exploratory Hole S1-BH122
Project	Global Centre of Rail Excellence	Easting	284632.90	Equipment	Beretta T44/Insulated Hand Tools	Sheet 1 of 2
Client	Walters UK Limited	Northing	210701.30	Method	DS/RC/IP	
Project No	G22069	Level	230.82 mAOD	Termination Reason	Scheduled depth	



S1-BH122 2.00 m to 3.00 m

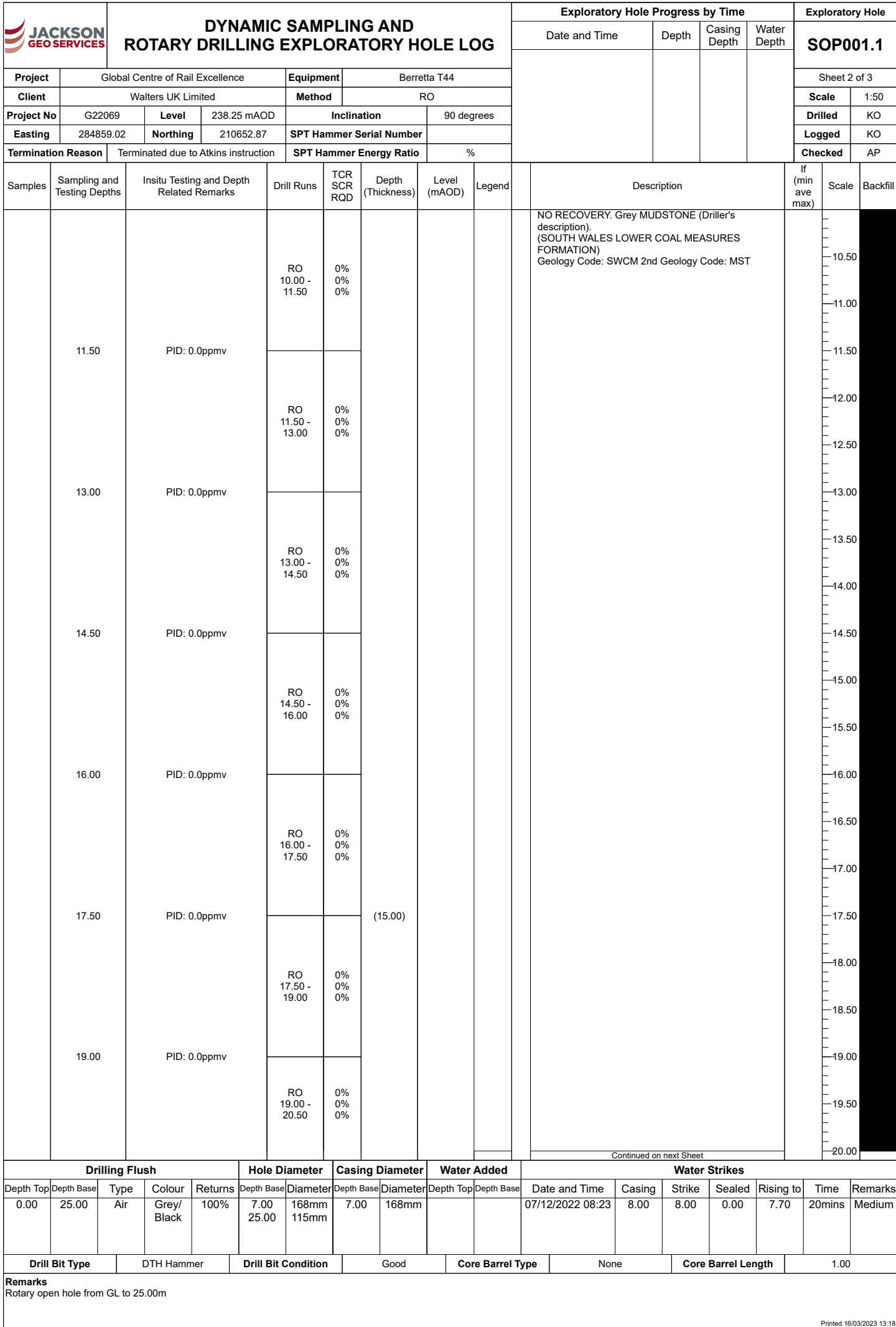


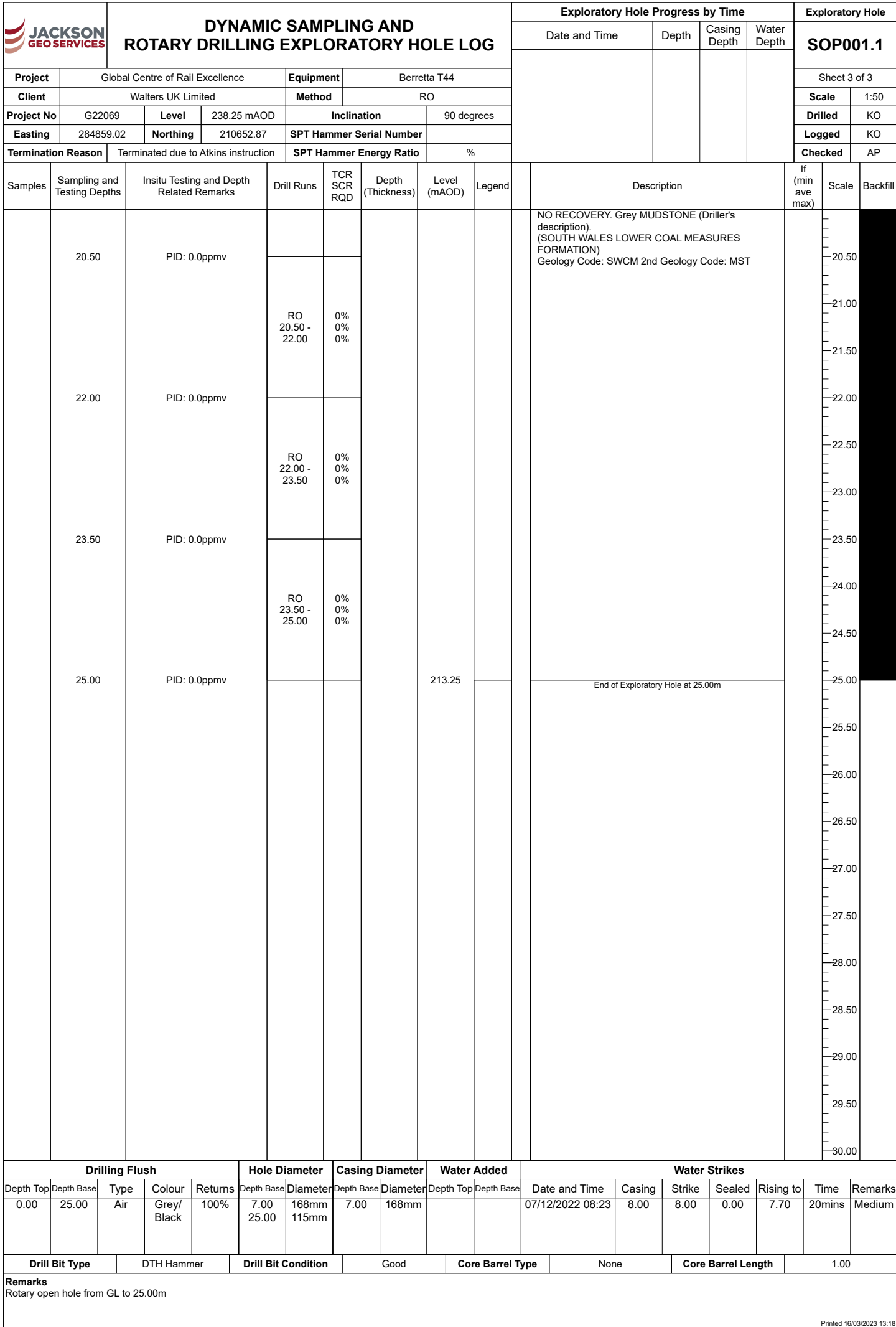
S1-BH122 4.00 m to 5.00 m

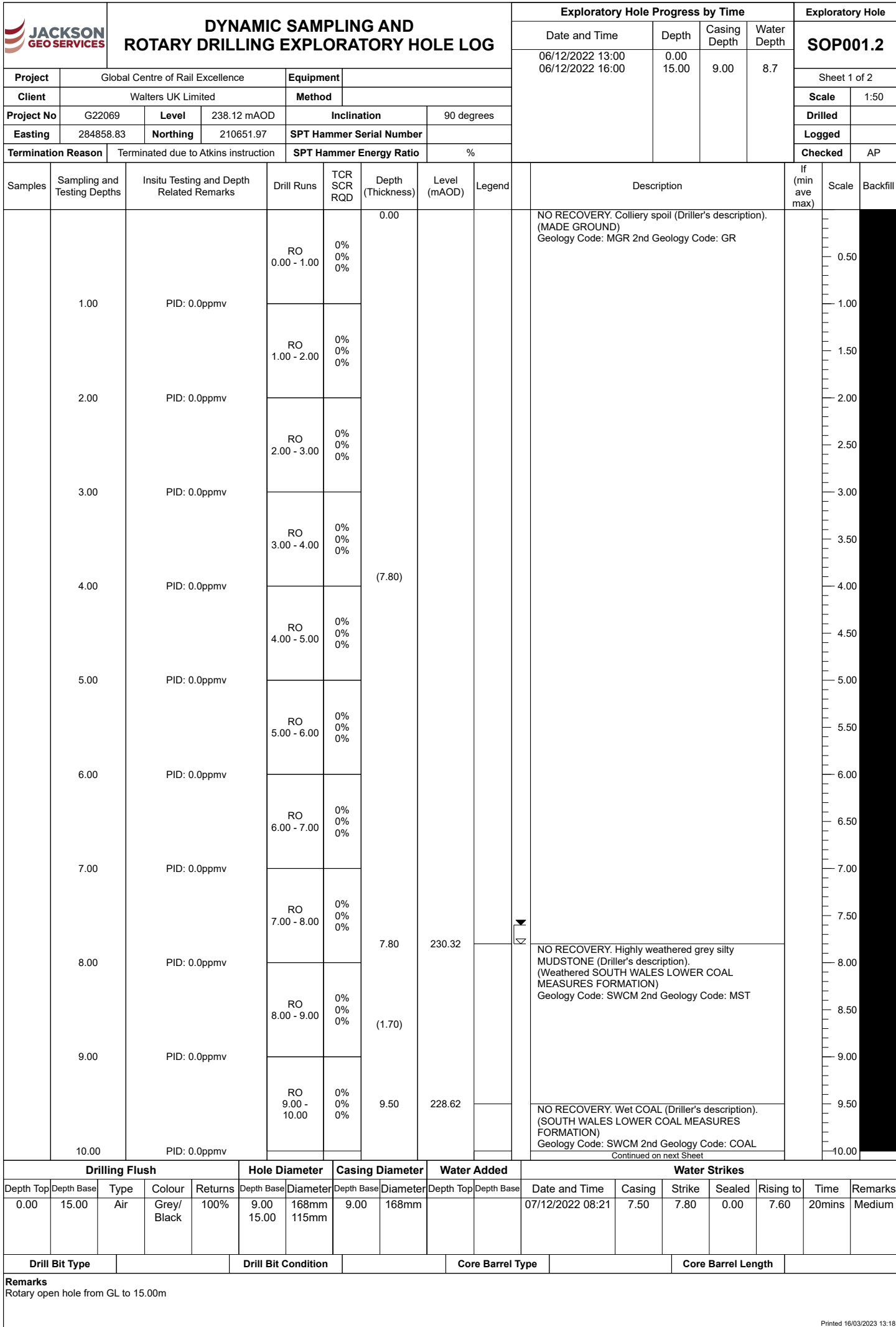
		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.40m depth. Dynamic sampling from 0.40m to 8.00m depth. Rotary coring from 8.00m to 10.50m depth.		Exploratory Hole S1-BH122
Project	Global Centre of Rail Excellence	Easting	284632.90	Equipment	Beretta T44/Insulated Hand Tools	Sheet 2 of 2
Client	Walters UK Limited	Northing	210701.30	Method	DS/RC/IP	
Project No	G22069	Level	230.82 mAOD	Termination Reason	Scheduled depth	

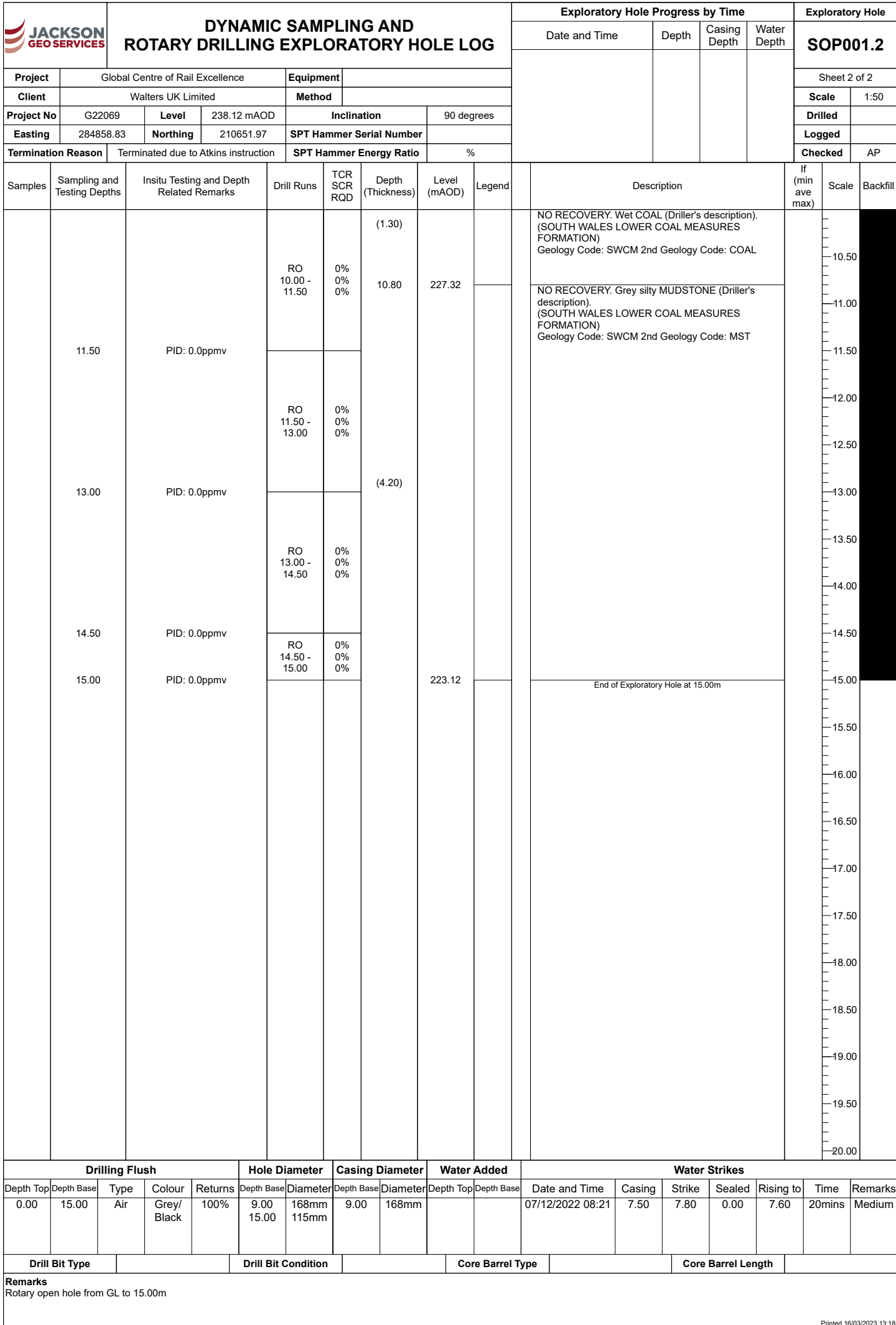


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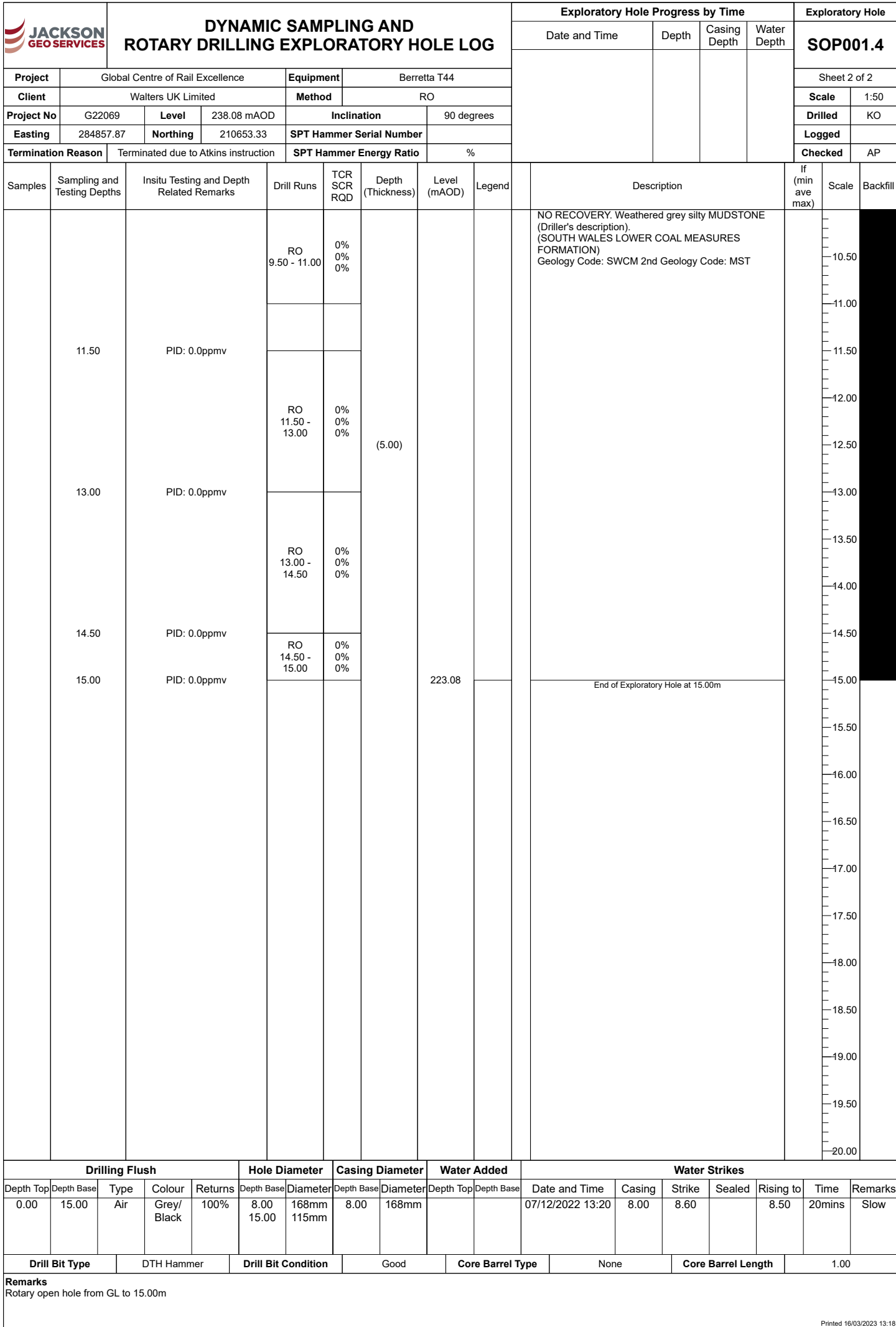
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.3	
07/12/2022 08:00 07/12/2022 10:45	0.00 15.00	8.00	8.00		
				Sheet 1 of 2	
				Scale	1:50
				Drilled	KO
				Logged	KO
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey/ Black	100%	8.00 15.00	168mm 115mm	8.00	168mm			07/12/2022 10:15	8.00	8.10		8.00	20mins	Slow
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

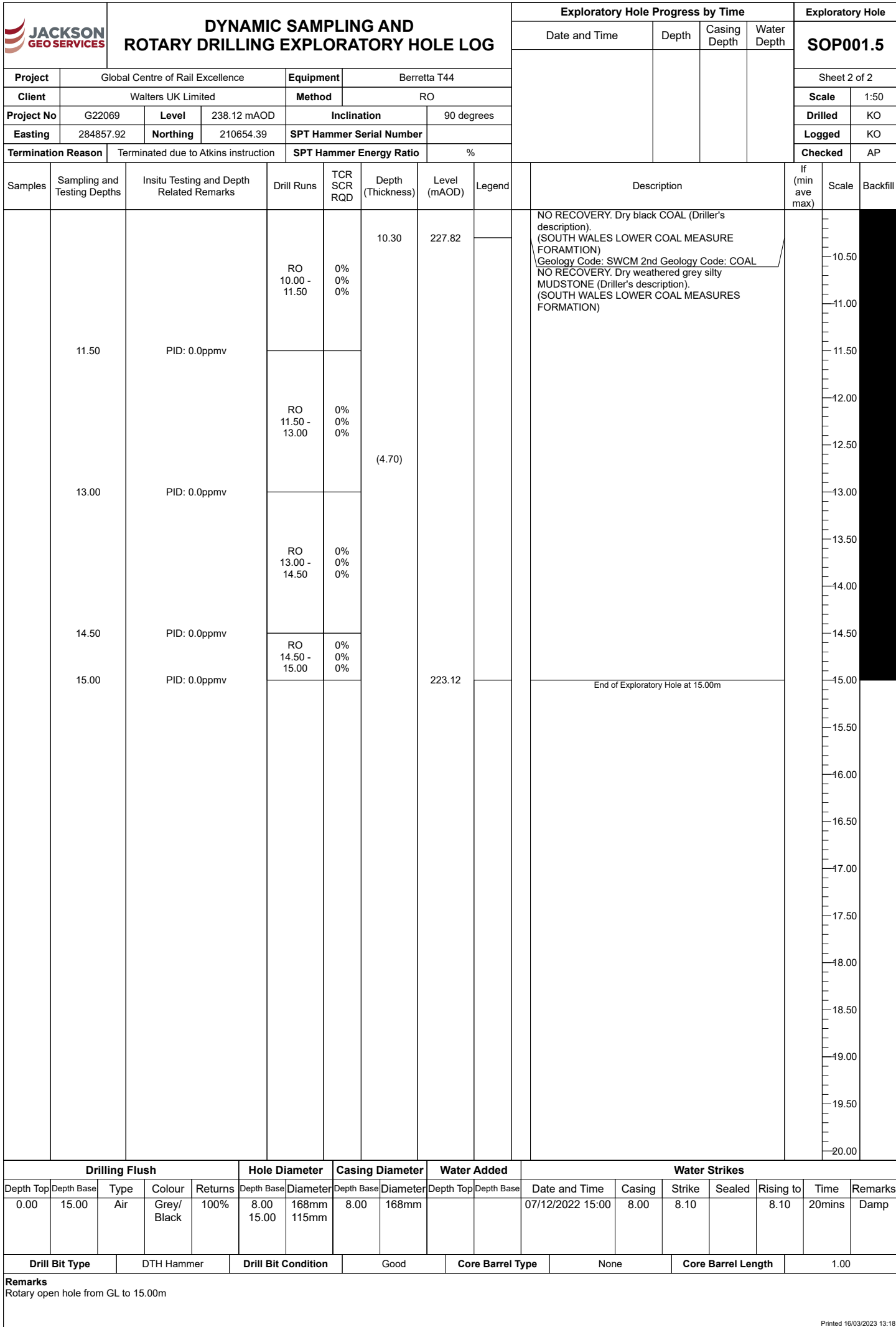
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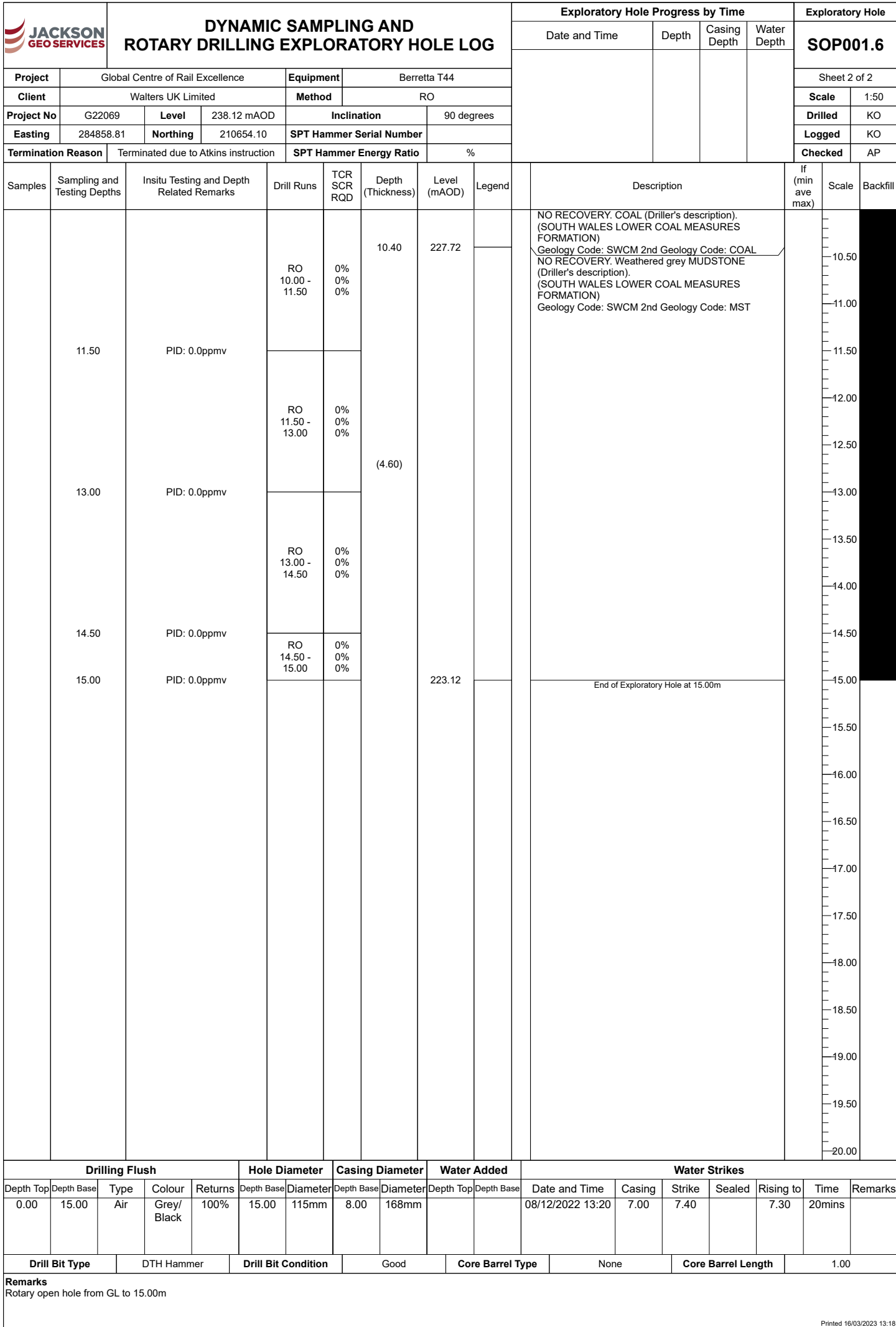
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.9				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	238.12 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284859.41		Northing	210651.80		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked	AP					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(5.50)	223.12		NO RECOVERY. Hard to moderately strong MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
												11.00					
												11.50					
												12.00					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						12.50					
												13.00					
												13.50					
												14.00					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%						14.50					
												15.00					
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%				End of Exploratory Hole at 15.00m		15.50					
												16.00					
												16.50					
												17.00					
												17.50					
												18.00					
												18.50					
												19.00					
												19.50					
												20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey/ Dark grey	100%	15.00	115mm	9.00	115mm			15/12/2022 14:43	9.00	9.00	9.00	8.90	20mins	water seepage.
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.10				
								15/12/2022 15:59		0.00							
								15/12/2022 16:42		9.00	9.00	Dry					
16/12/2022 08:33		9.00	9.00	6.30	Sheet 1 of 2												
16/12/2022 10:39		15.00	9.00	Dry													
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Scale		1:50					
Client		Walters UK Limited			Method		RO			Drilled		LG					
Project No		G22069		Level	238.13 mAOD		Inclination		90 degrees		Logged		LG				
Easting		284859.12		Northing	210650.75		SPT Hammer Serial Number				Checked		AP				
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			0.50				
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%											
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%											
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%											
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%											
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%											
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%											
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%											
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%	8.00	230.13		NO RECOVERY. Banded dark grey MUDSTONE and coal (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			8.00				
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	9.00	229.13									
										Continued on next Sheet			10.00				
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 15.00m																	

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time		Depth	Casing Depth	Water Depth	SOP001.11
16/12/2022 11:30 16/12/2022 13:57		0.00 15.00	9.00	Dry	
					Sheet 1 of 2
					Scale 1:50
					Drilled LG
					Logged LG
					Checked AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None			Core Barrel Length		1.00	

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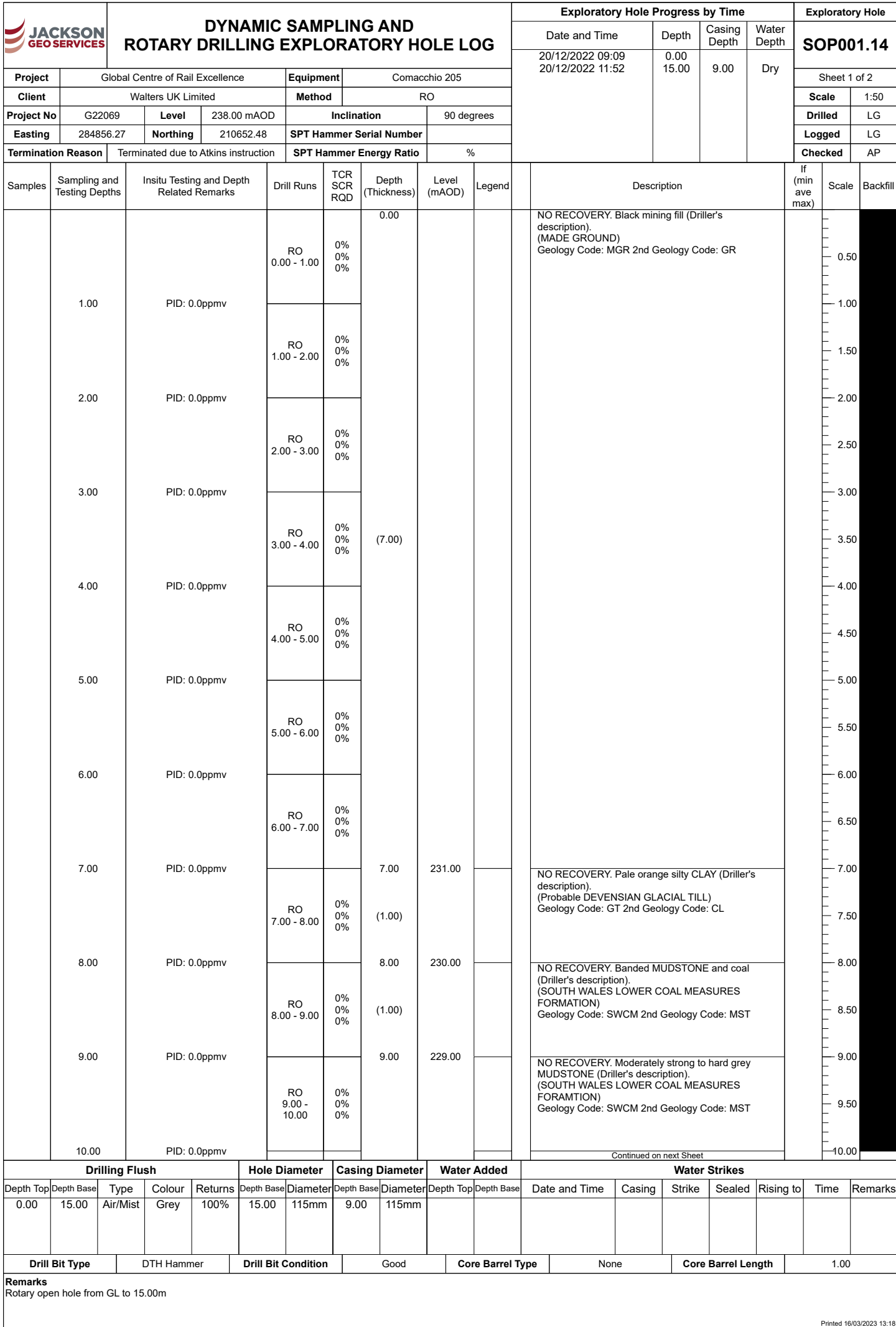
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.11	
				Sheet 2 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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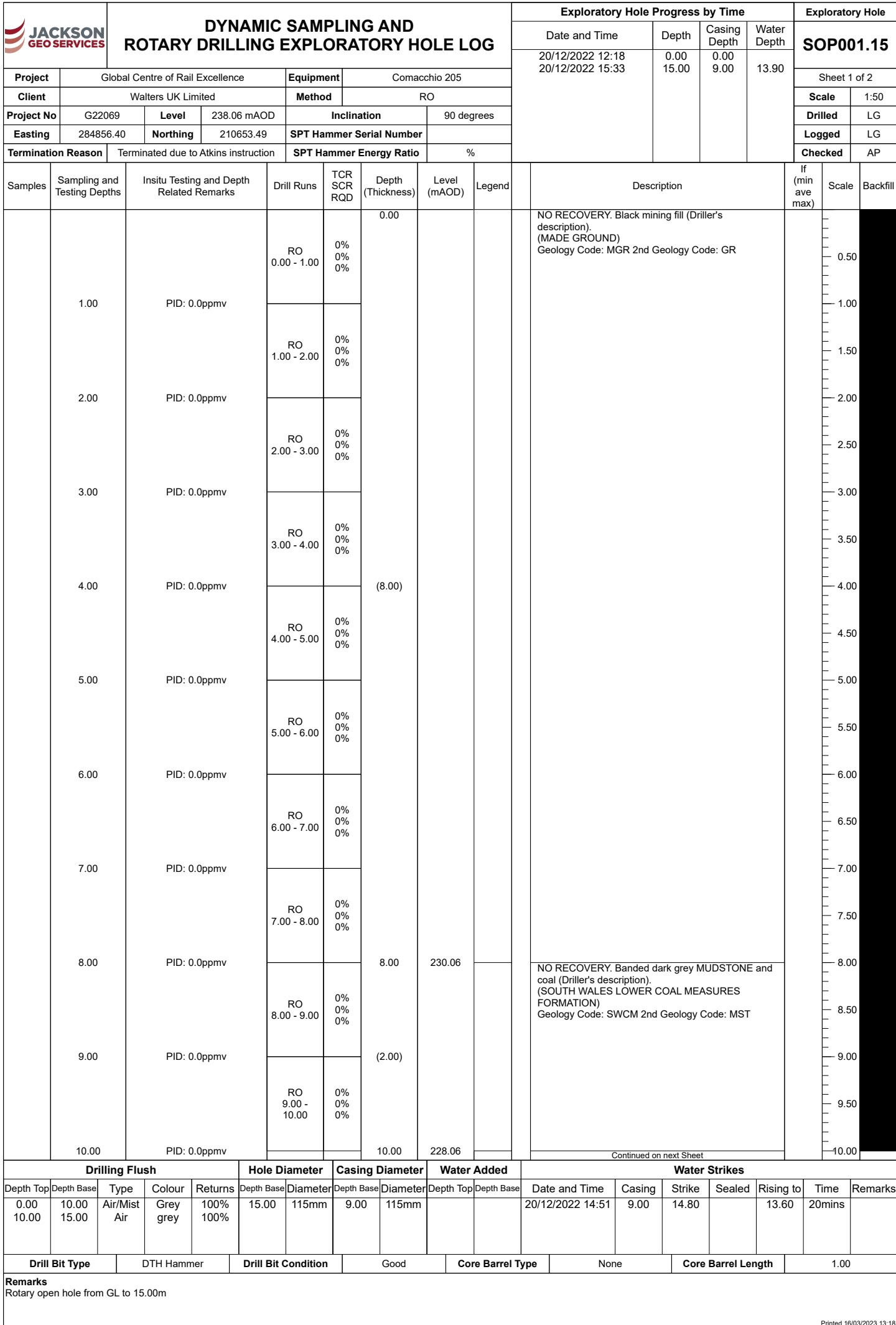
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.12				
													Sheet 2 of 2				
													Scale 1:50				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Drilled LG							
Client		Walters UK Limited			Method		RO			Logged LG							
Project No		G22069	Level	238.09 mAOD	Inclination		90 degrees			Checked AP							
Easting		284856.93	Northing	210651.27	SPT Hammer Serial Number												
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	223.09		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
												11.00					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						11.50					
												12.00					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%					12.50						
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%					13.00						
											13.50						
											14.00						
											14.50						
											15.00						
										End of Exploratory Hole at 15.00m		15.50					
												16.00					
												16.50					
												17.00					
												17.50					
												18.00					
												18.50					
												19.00					
												19.50					
												20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP001.13		
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2					
Client		Walters UK Limited				Method		RO				Scale	1:50				
Project No		G22069		Level		238.08 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284856.16		Northing		210651.44		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked	AP				
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill		
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.50)	223.08		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
	13.00		PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%							11.00			
	14.50		PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%							11.50			
	15.00		PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%							12.00			
											End of Exploratory Hole at 15.00m			12.50			
														13.00			
														13.50			
														14.00			
														14.50			
														15.00			
														15.50			
														16.00			
														16.50			
														17.00			
														17.50			
														18.00			
														18.50			
														19.00			
														19.50			
														20.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	9.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 15.00m																	



		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time				Exploratory Hole		
												Date and Time		Depth	Casing Depth	Water Depth	SOP001.14	
												Project		Global Centre of Rail Excellence				
Client		Walters UK Limited			Method		RO			Scale	1:50							
Project No		G22069		Level	238.00 mAOD		Inclination		90 degrees		Drilled	LG						
Easting		284856.27		Northing	210652.48		SPT Hammer Serial Number				Logged	LG						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked	AP						
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	223.00		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORAMTION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
														11.00				
														11.50				
	13.00		PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%							12.00				
														12.50				
								13.00										
	13.00		PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%				End of Exploratory Hole at 15.00m			13.50				
								14.00										
	14.50		PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%						14.50					
								15.00										
	15.00		PID: 0.0ppmv										15.50					
													16.00					
													16.50					
													17.00					
													17.50					
													18.00					
													18.50					
													19.00					
													19.50					
													20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	15.00	Air/Mist	Grey	100%	15.00	115mm	9.00	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 15.00m																		

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.15 Sheet 2 of 2 Scale 1:50 Drilled LG Logged LG Checked AP	

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.00	Air/Mist	Grey	100%	15.00	115mm	9.00	115mm			20/12/2022 14:51	9.00	14.80		13.60	20mins	
10.00	15.00	Air	grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole								
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.16							
								Project		Global Centre of Rail Excellence		Equipment			Comacchio 205		Sheet 2 of 2			
Client		Walters UK Limited		Method		RO		Scale		1:50										
Project No		G22069		Level		237.51 mAOD		Inclination		90 degrees		Drilled		LG						
Easting		284850.87		Northing		210630.17		SPT Hammer Serial Number				Logged		LG						
Termination Reason		Terminated due to Atkins instruction		SPT Hammer Energy Ratio		%						Checked		AP						
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks		Drill Runs		TCR SCR RQD		Depth (Thickness)		Level (mAOD)		Legend		Description		If (min ave max)	Scale	Backfill	
	11.50		PID: 0.0ppmv		RO 10.00 - 11.50		0% 0% 0%		(5.00)		222.51				NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50		
																		11.00		
																		11.50		
																		12.00		
																		12.50		
	13.00		PID: 0.0ppmv		RO 11.50 - 13.00		0% 0% 0%										13.00			
																		13.50		
																		14.00		
	14.50		PID: 0.0ppmv		RO 13.00 - 14.50		0% 0% 0%											14.50		
	15.00		PID: 0.0ppmv		RO 14.50 - 15.00		0% 0% 0%											15.00		
End of Exploratory Hole at 15.00m																			15.50	
																			16.00	
																			16.50	
																			17.00	
																			17.50	
																			18.00	
																			18.50	
																			19.00	
																			19.50	
																			20.00	
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes									
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks			
0.00	10.00	Air/Mist	Grey/Black Grey	100%	15.00	115mm	9.00	115mm												
10.00	15.00	Air		100%																
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00						
Remarks Rotary open hole from GL to 15.00m																				
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.17				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level	237.59 mAOD	Inclination		90 degrees			Drilled	LG						
Easting		284851.62	Northing	210629.88	SPT Hammer Serial Number					Logged	LG						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked	AP						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.00)	222.59		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50					
												11.00					
												11.50					
												12.00					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						12.50					
												13.00					
												13.50					
												14.00					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%						14.50					
												15.00					
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%				End of Exploratory Hole at 15.00m		15.50					
												16.00					
												16.50					
												17.00					
												17.50					
												18.00					
												18.50					
												19.00					
												19.50					
												20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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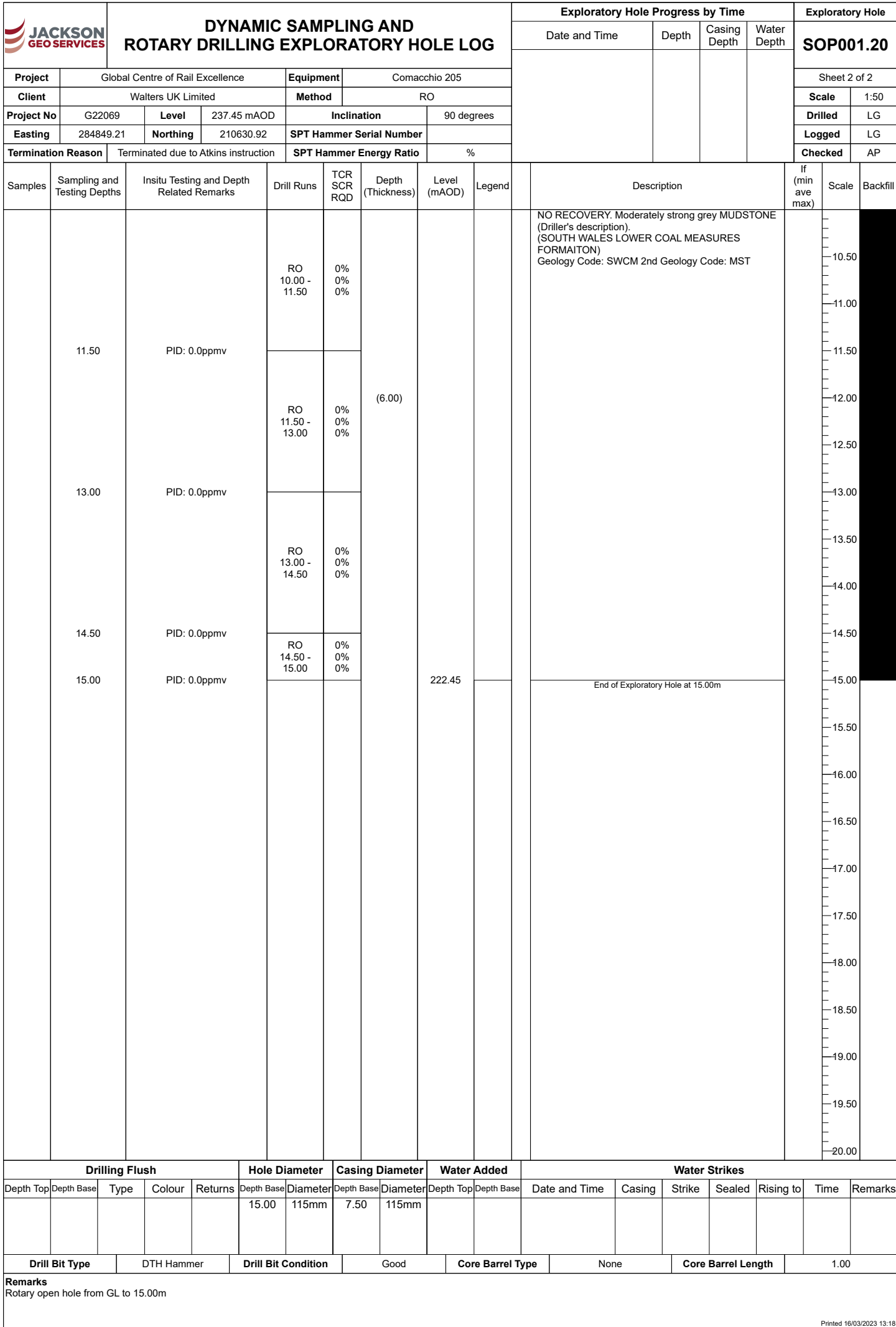
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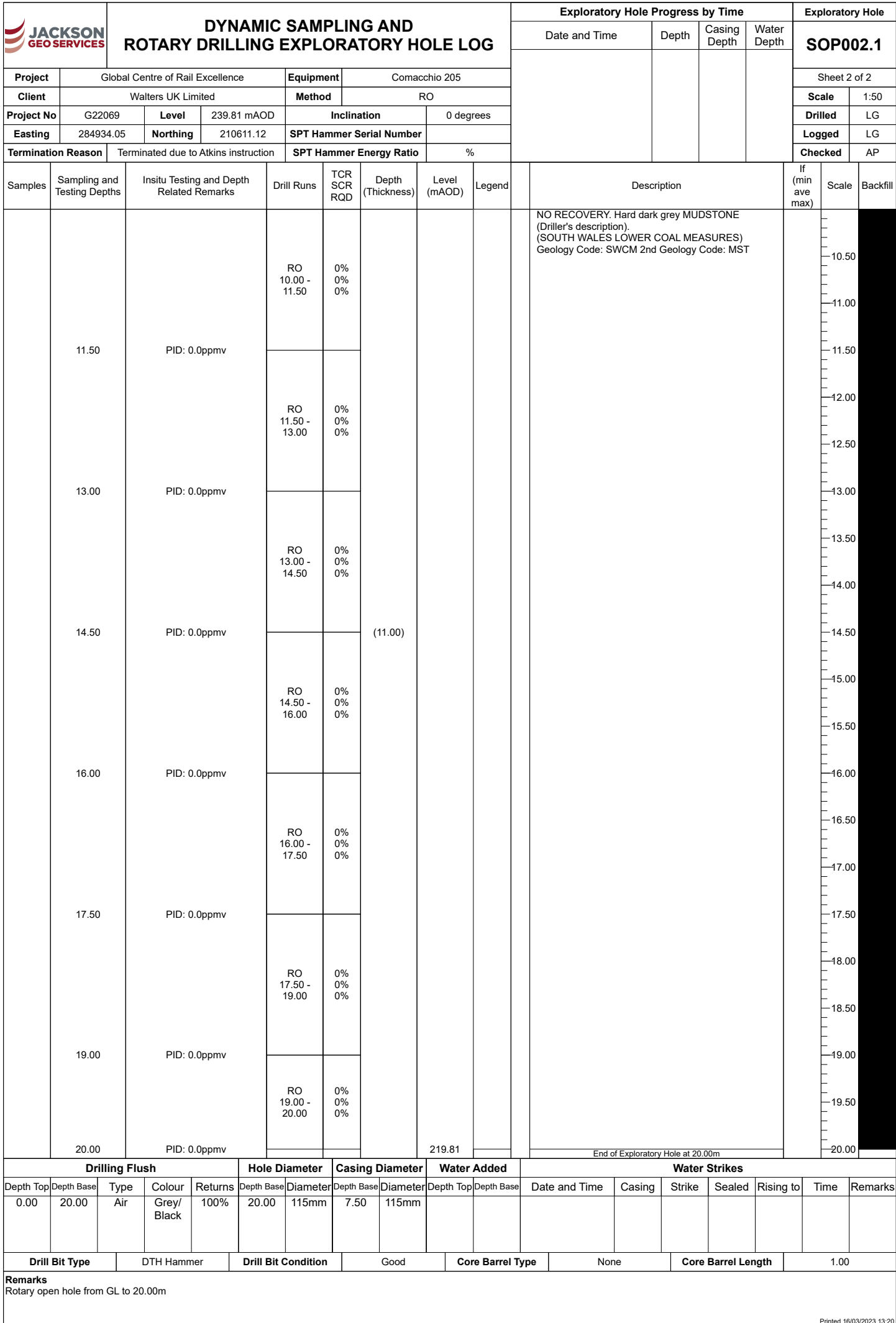
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP001.19		
										Project		Global Centre of Rail Excellence					Equipment
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		237.50 mAOD		Inclination		90 degrees		Drilled LG					
Easting		284850.08		Northing		210630.53		SPT Hammer Serial Number				Logged LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked AP						
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill		
	11.50		PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(6.50)	222.50		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
	13.00		PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%							11.00			
	14.50		PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%							11.50			
	15.00		PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%							12.00			
											End of Exploratory Hole at 15.00m			12.50			
														13.00			
														13.50			
														14.00			
														14.50			
														15.00			
														15.50			
														16.00			
														16.50			
														17.00			
														17.50			
														18.00			
														18.50			
														19.00			
														19.50			
														20.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	

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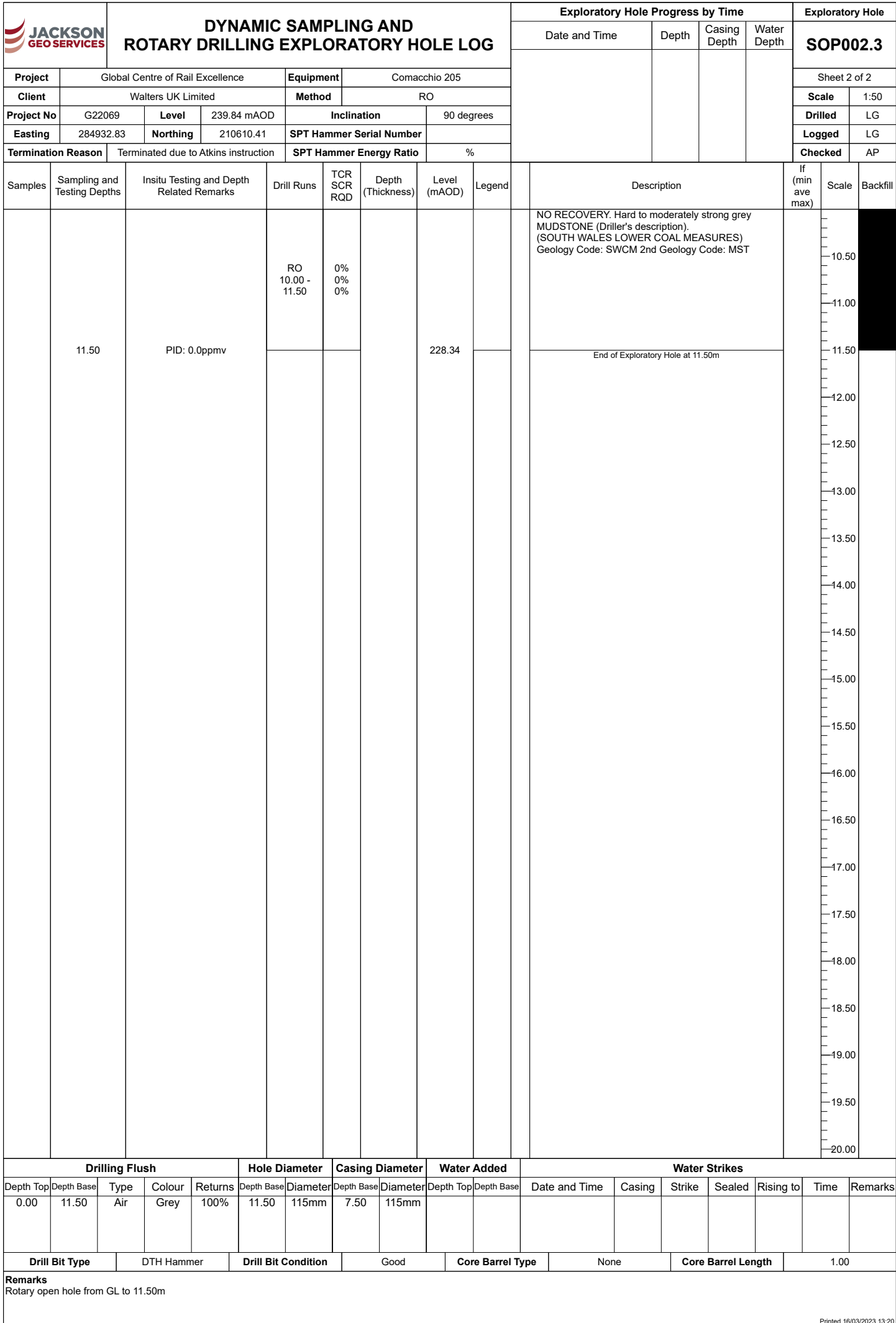
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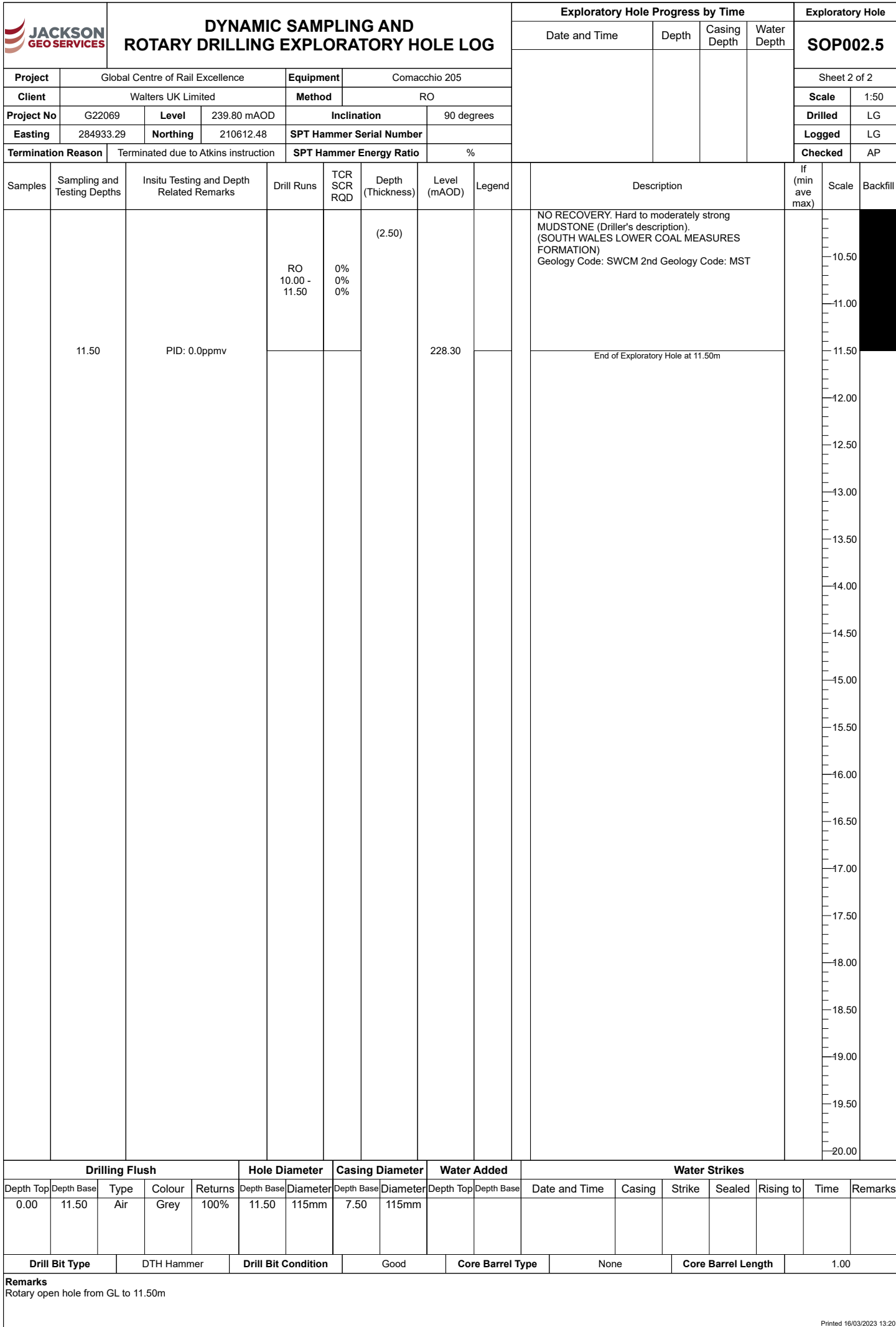
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time								Exploratory Hole					
												Date and Time				Depth		Casing Depth		Water Depth		SOP002.4			
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2													
Client		Walters UK Limited				Method		RO				Scale		1:50											
Project No		G22069		Level		239.76 mAOD		Inclination			90 degrees			Drilled		LG									
Easting		284933.08		Northing		210611.36		SPT Hammer Serial Number						Logged		LG									
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio			%			Checked		AP											
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description				If (min ave max)	Scale	Backfill								
	11.50					RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.26		NO RECOVERY. Hard to moderately strong MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST														
											End of Exploratory Hole at 11.50m														



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.5	
06/12/2022 08:00	0.00				
06/12/2022 10:30	11.50	7.50	Dry	Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time								Exploratory Hole					
												Date and Time				Depth		Casing Depth		Water Depth		SOP002.7 Sheet 2 of 2 Scale1:50 DrilledLG LoggedLG CheckedAP			
												Project		Global Centre of Rail Excellence				Equipment		Comacchio 205					
Client		Walters UK Limited				Method		RO																	
Project No		G22069		Level		239.89 mAOD		Inclination			90 degrees														
Easting		284935.37		Northing		210612.34		SPT Hammer Serial Number																	
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio			%																
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description				If (min ave max)	Scale	Backfill								
	11.50					RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.39		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST														
											End of Exploratory Hole at 11.50m														
</																									

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time								Exploratory Hole						
												Date and Time				Depth		Casing Depth		Water Depth		SOP002.8				
												Project		Global Centre of Rail Excellence				Equipment		Comacchio 205						Sheet 2 of 2
Client		Walters UK Limited				Method		RO				Scale		1:50												
Project No		G22069		Level		240.00 mAOD		Inclination			90 degrees			Drilled		LG										
Easting		284935.06		Northing		210611.44		SPT Hammer Serial Number						Logged		LG										
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio			%			Checked		AP												
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks				Drill Runs		TCR SCR RQD		Depth (Thickness)		Level (mAOD)		Legend		Description				If (min ave max)		Scale		Backfill	
	11.50		PID: 0.0ppmv				RO 10.00 - 11.50		0% 0% 0%		(2.50)		228.50				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						10.50			
																	End of Exploratory Hole at 11.50m						11.50			
																							12.00			
																							12.50			
																							13.00			
																							13.50			
																							14.00			
																							14.50			
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																							16.50			
																							17.00			
																							17.50			
																							18.00			
																							18.50			
																							19.00			
																							19.50			
																							20.00			
Drilling Flush					Hole Diameter			Casing Diameter		Water Added		Water Strikes														
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks									
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm																		
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00												
Remarks																										
Rotary open hole from GL to 11.50m																										

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.9	
07/12/2022 13:30 07/12/2022 14:30	0.00 11.50	7.50	Dry		
				Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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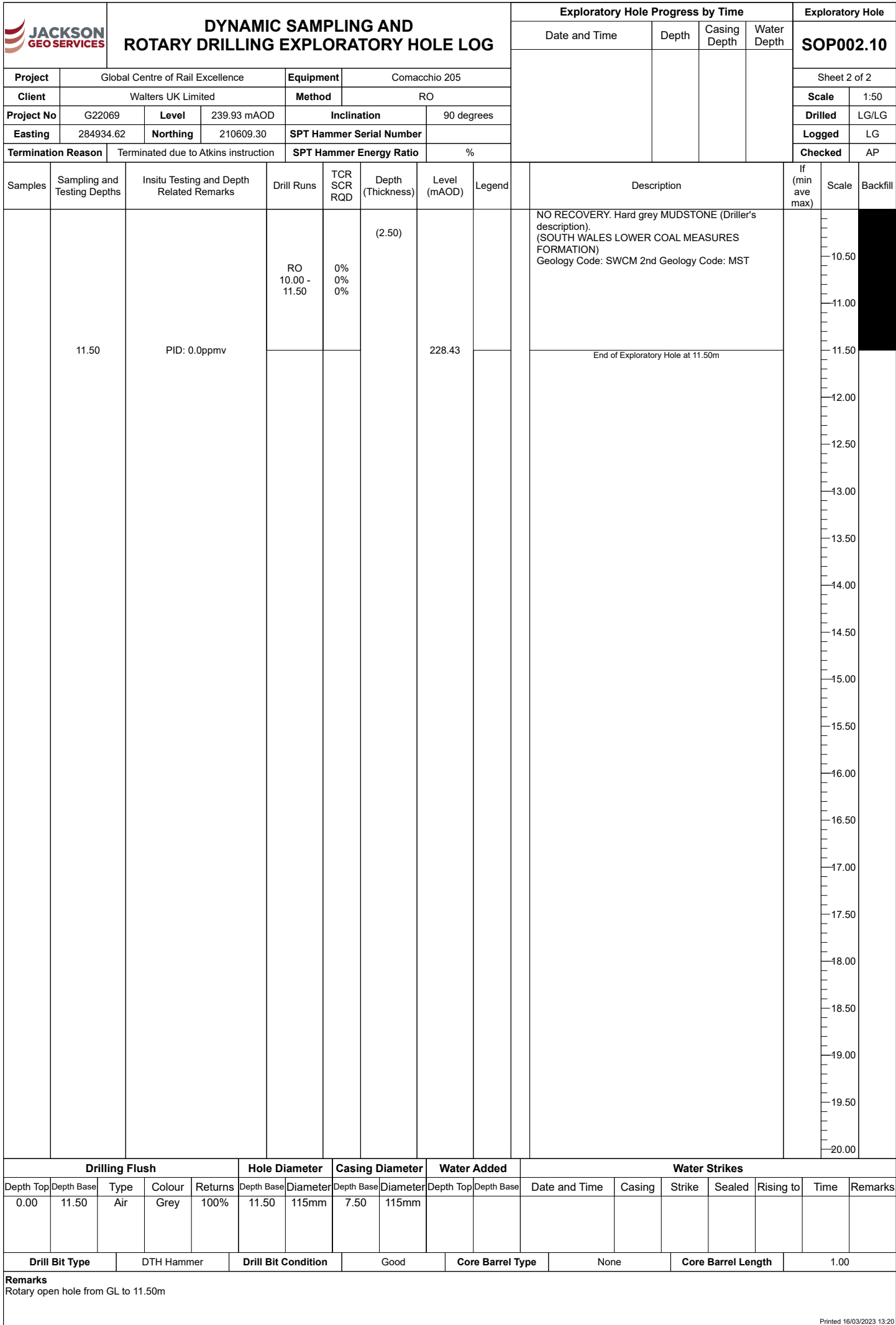
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time							Exploratory Hole	
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.9			
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2						
Client		Walters UK Limited				Method		RO				Scale	1:50					
Project No		G22069		Level		239.95 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284934.84		Northing		210610.47		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked	AP					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.45		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
											End of Exploratory Hole at 11.50m			11.50				
														12.00				
														12.50				
														13.00				
														13.50				
														14.00				
														14.50				
														15.00				
														15.50				
														16.00				
														16.50				
														17.00				
														17.50				
														18.00				
														18.50				
														19.00				
														19.50				
														20.00				
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																		



Exploratory Hole Progress by Time				Exploratory Hole		
Date and Time		Depth	Casing Depth	Water Depth	SOP002.10	
07/12/2022 15:00		0.00				
07/12/2022 16:00		3.00	3.00	Dry	Sheet 1 of 2	
08/12/2022 08:00		3.00	3.00	Dry		
08/12/2022 10:38		11.50	7.50	Dry	Scale	1:50
					Drilled	LG/LG
					Logged	LG
					Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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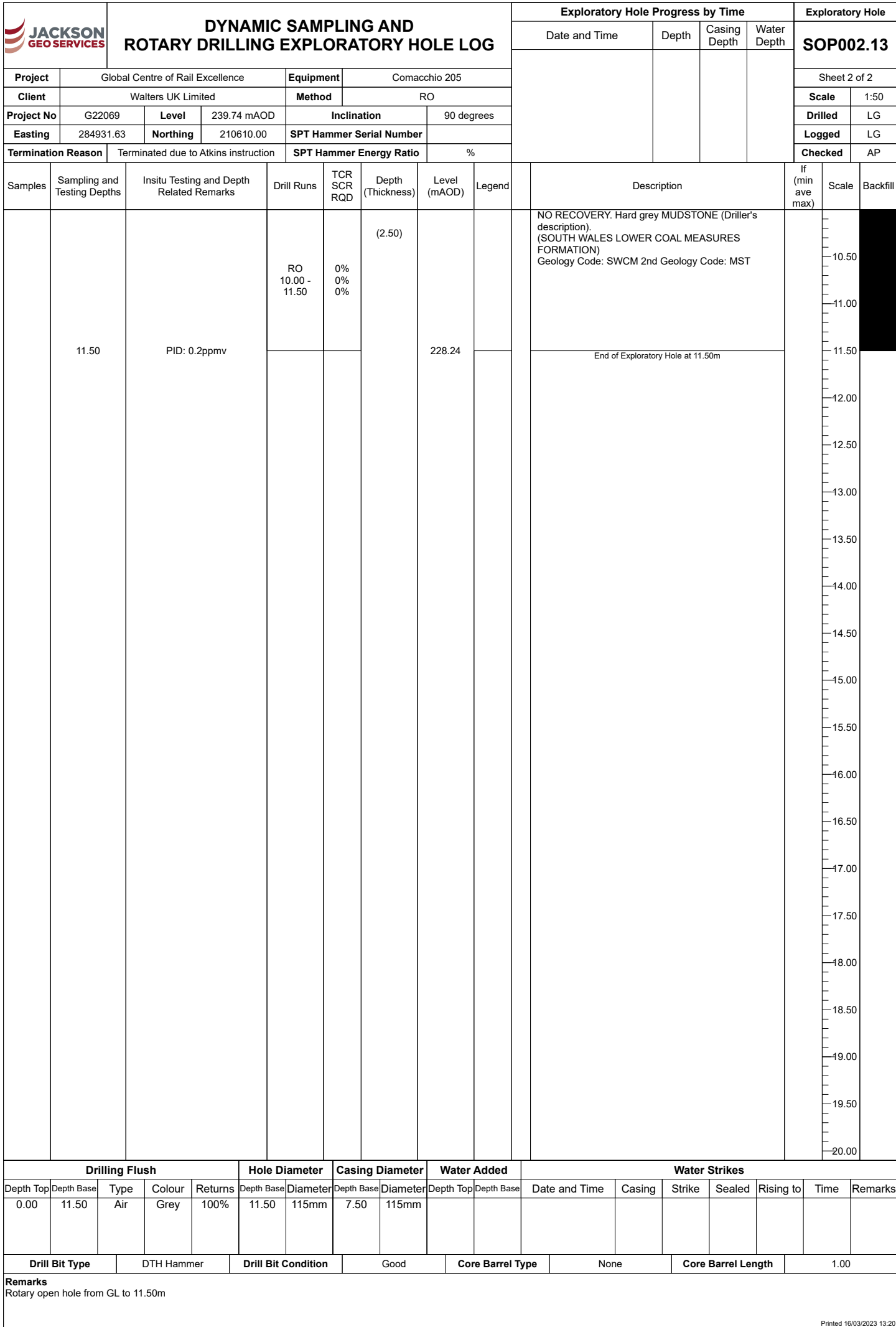


		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time							Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	SOP002.11			
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2								
Client		Walters UK Limited				Method		RO				Scale	1:50							
Project No		G22069		Level		239.85 mAOD		Inclination		90 degrees		Drilled	LG							
Easting		284933.43		Northing		210609.53		SPT Hammer Serial Number				Logged	LG							
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked	AP							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill					
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.35		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50						
											End of Exploratory Hole at 11.50m			11.00						
														11.50						
														12.00						
														12.50						
														13.00						
														13.50						
														14.00						
														14.50						
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														16.00						
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														17.00						
														17.50						
														18.00						
														18.50						
														19.00						
														19.50						
														20.00						
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes									
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks			
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm												
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00						
Remarks Rotary open hole from GL to 11.50m																				

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time					Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	SOP002.12	
																	Sheet 2 of 2	
																	Scale	1:50
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Drilled		LG				
Client		Walters UK Limited				Method		RO				Logged		LG				
Project No		G22069		Level		239.80 mAOD		Inclination		90 degrees		Checked		AP				
Easting		284932.45		Northing		210609.84		SPT Hammer Serial Number										
Termination Reason		Terminated due to Atkins request				SPT Hammer Energy Ratio		%										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description				If (min ave max)	Scale	Backfill	
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.30		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST					10.50		
											End of Exploratory Hole at 11.50m					11.00		
																11.50		
																12.00		
																12.50		
																13.00		
																13.50		
																14.00		
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																17.50		
																18.00		
																18.50		
																19.00		
																19.50		
																20.00		
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 11.50m																		
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.14		
															Sheet 2 of 2		
															Scale	1:50	
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Drilled		LG			
Client		Walters UK Limited				Method		RO				Logged		LG			
Project No		G22069		Level		239.77 mAOD		Inclination		90 degrees		Checked		AP			
Easting		284931.65		Northing		210611.00		SPT Hammer Serial Number									
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%									
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.27		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			11.00			
														11.50			
														12.00			
														12.50			
														13.00			
														13.50			
														14.00			
														14.50			
														15.00			
														15.50			
														16.00			
														16.50			
														17.00			
														17.50			
														18.00			
														18.50			
														19.00			
														19.50			
														20.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 11.50m																	
Printed 16/03/2023 13:20																	

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SOP002.16

lf (min ave max)	Scale	Backfill
	0.50	
	1.00	
	1.50	
	2.00	
	2.50	
	3.00	
	3.50	
	4.00	
	4.50	
	5.00	
	5.50	
	6.00	
	6.50	
	7.00	
	7.50	
	8.00	
	8.50	
	9.00	
	9.50	
	10.00	

Remarks
Rotary open hole from GL to 11.50m
Printed 16/03/2023 13:20

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.16				
Project		Global Centre of Rail Excellence			Equipment		205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.84 mAOD		Inclination		90 degrees							
Easting		284932.11		Northing		210613.15		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked AP							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.34		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50 17.00 17.50 18.00 18.50 19.00 19.50 20.00					
End of Exploratory Hole at 11.50m																	
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type					Drill Bit Condition				Core Barrel Type					Core Barrel Length			
Remarks Rotary open hole from GL to 11.50m																	
Printed 16/03/2023 13:20																	



SOP002.17

lf (min ave max)	Scale	Backfill
	0.50	
	1.00	
	1.50	
	2.00	
	2.50	
	3.00	
	3.50	
	4.00	
	4.50	
	5.00	
	5.50	
	6.00	
	6.50	
	7.00	
	7.50	
	8.00	
	8.50	
	9.00	
	9.50	
	10.00	

Remarks
Rotary open hole from GL to 11.50m
Printed 16/03/2023 13:20

Printed 16/03/2023 13:20

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.18		
															Sheet 2 of 2		
															Scale	1:50	
															Drilled	LG	
Project		Global Centre of Rail Excellence				Equipment		205				Logged					
Client		Walters UK Limited				Method		RO				Checked		AP			
Project No		G22069		Level		239.89 mAOD		Inclination		90 degrees							
Easting		284933.48		Northing		210614.08		SPT Hammer Serial Number									
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%									
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.39		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			11.50			
														12.00			
														12.50			
														13.00			
														13.50			
														14.00			
														14.50			
														15.00			
														15.50			
														16.00			
														16.50			
														17.00			
														17.50			
														18.00			
														18.50			
														19.00			
														19.50			
														20.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm											
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		
Remarks Rotary open hole from GL to 11.50m																	



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.19	
12/12/2022 16:13	0.00				
12/12/2022 16:24	6.00	0.00	Dry	Sheet 1 of 2	
13/12/2022 08:30	6.00	0.00	Dry	Scale	1:50
13/12/2022 10:00	11.50	7.50	Dry	Drilled	LG
				Logged	
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length			

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP002.19		
Project		Global Centre of Rail Excellence				Equipment		205		Sheet 2 of 2							
Client		Walters UK Limited				Method		RO									
Project No		G22069		Level		239.98 mAOD		Inclination				90 degrees					
Easting		284934.36		Northing		210613.85		SPT Hammer Serial Number									
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%		Checked		AP					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill		
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.48		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50			
											End of Exploratory Hole at 11.50m			11.00			
														11.50			
														12.00			
														12.50			
														13.00			
														13.50			
														14.00			
														14.50			
														15.00			
														15.50			
														16.00			
														16.50			
														17.00			
														17.50			
														18.00			
														18.50			
														19.00			
														19.50			
														20.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		
Remarks																	
Rotary open hole from GL to 11.50m																	

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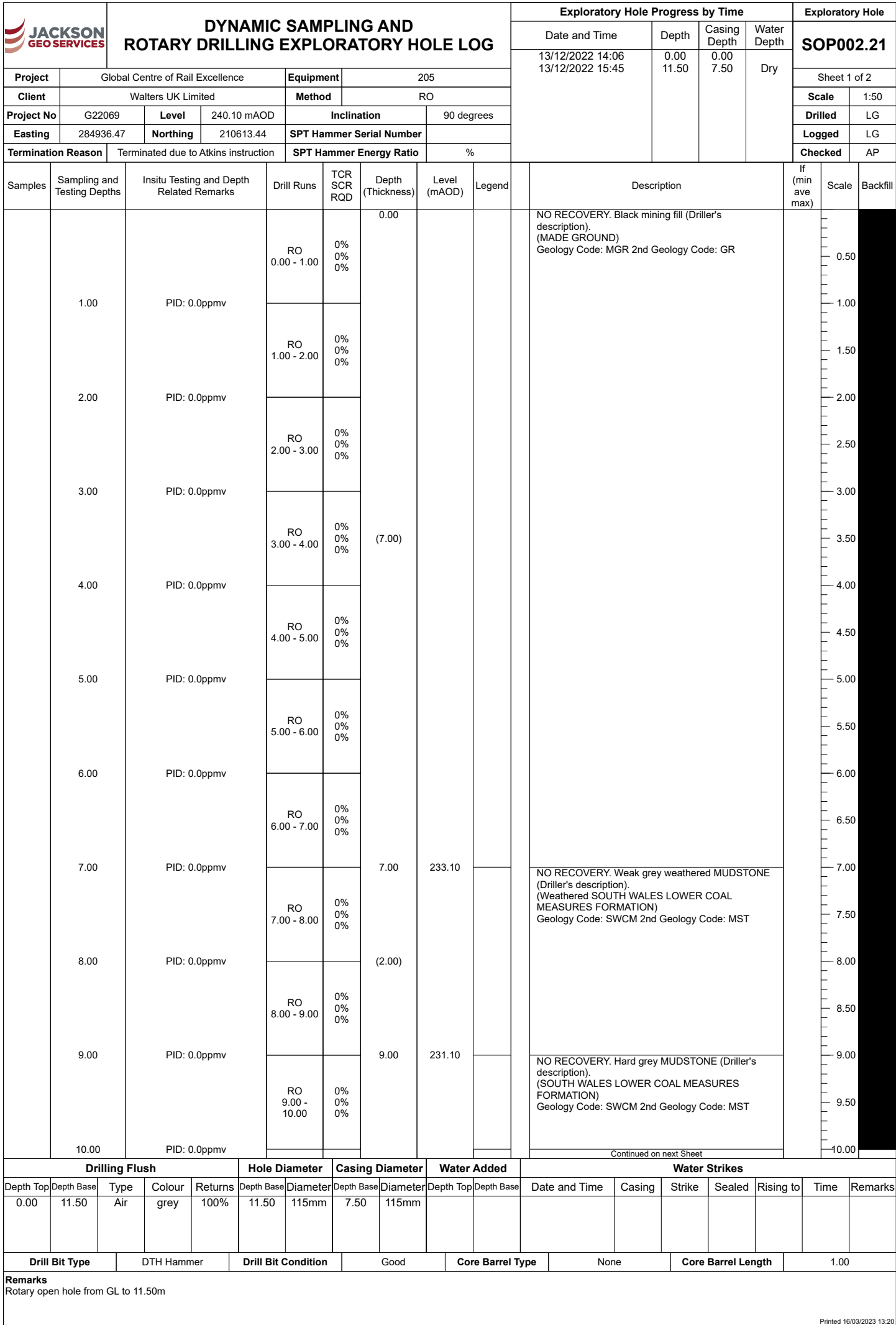


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.20	
13/12/2022 11:22	0.00	0.00	Dry		
13/12/2022 14:02	11.50	7.50			
Sheet 1 of 2					
Scale	1:50				
Drilled	LG				
Logged	LG				
Checked	AP				

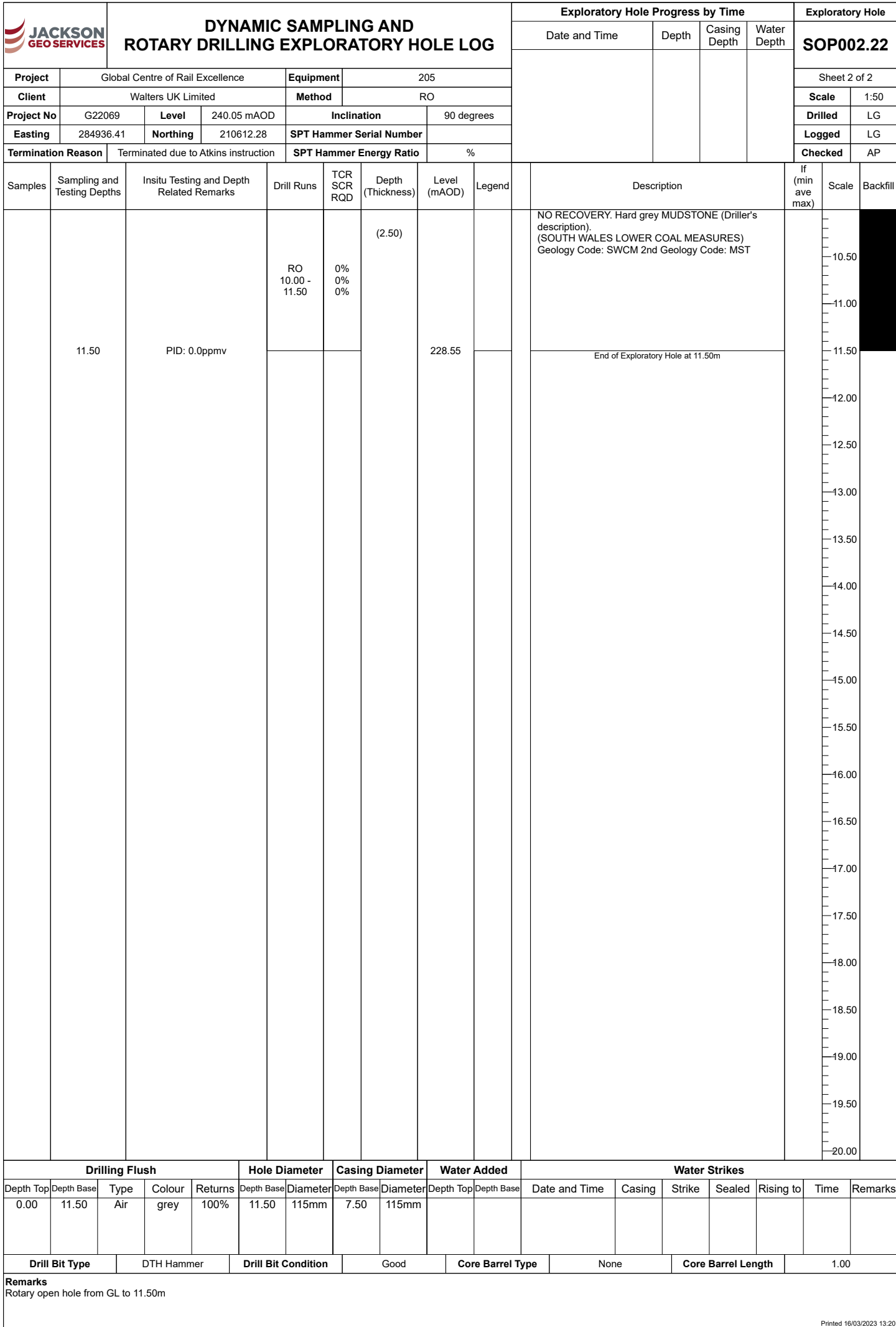
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

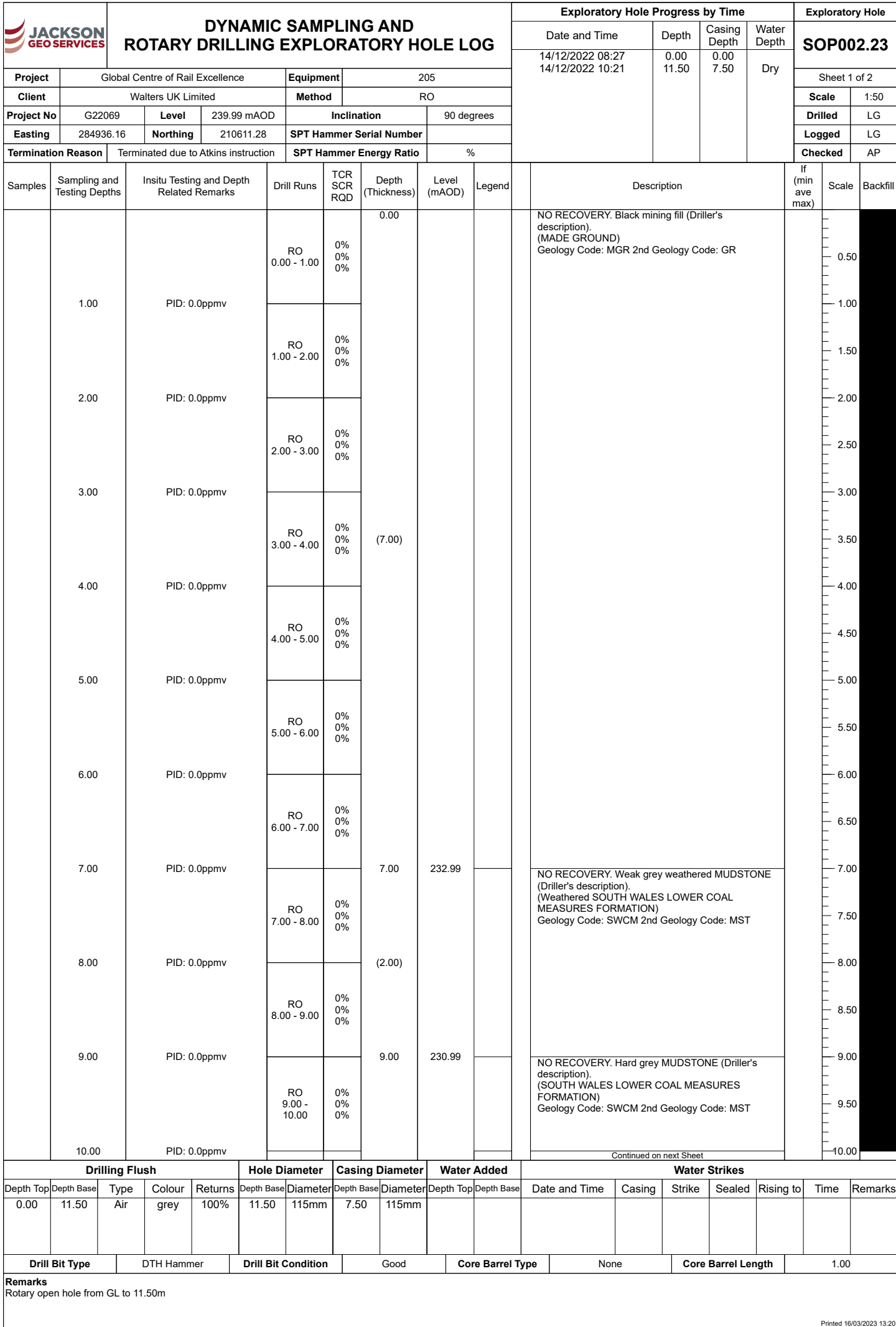
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time				Exploratory Hole		
												Date and Time		Depth	Casing Depth	Water Depth	SOP002.20	
												Project		Global Centre of Rail Excellence				
Client		Walters UK Limited			Method		RO			Scale	1:50							
Project No		G22069		Level	240.05 mAOD		Inclination		90 degrees		Drilled	LG						
Easting		284935.39		Northing	210613.60		SPT Hammer Serial Number				Logged	LG						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked	AP						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.55		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50					
										End of Exploratory Hole at 11.50m			11.00					
													11.50					
													12.00					
													12.50					
													13.00					
													13.50					
													14.00					
													14.50					
													15.00					
													15.50					
													16.00					
													16.50					
													17.00					
													17.50					
													18.00					
													18.50					
													19.00					
													19.50					
													20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 11.50m																		
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time				Exploratory Hole		
												Date and Time		Depth	Casing Depth	Water Depth	SOP002.21	
Project		Global Centre of Rail Excellence				Equipment		205				Sheet 2 of 2						
Client		Walters UK Limited				Method		RO				Scale	1:50					
Project No		G22069		Level		240.10 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284936.47		Northing		210613.44		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked	AP					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.60		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
											End of Exploratory Hole at 11.50m			11.00				
														11.50				
														12.00				
														12.50				
														13.00				
														13.50				
														14.00				
														14.50				
														15.00				
														15.50				
														16.00				
														16.50				
														17.00				
														17.50				
														18.00				
														18.50				
														19.00				
														19.50				
														20.00				
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 11.50m																		
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time				Exploratory Hole		
												Date and Time		Depth	Casing Depth	Water Depth	SOP002.23	
Project		Global Centre of Rail Excellence				Equipment		205				Sheet 2 of 2						
Client		Walters UK Limited				Method		RO				Scale	1:50					
Project No		G22069		Level		239.99 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284936.16		Northing		210611.28		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked	AP					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.49		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
											End of Exploratory Hole at 11.50m			11.00				
														11.50				
														12.00				
														12.50				
														13.00				
														13.50				
														14.00				
														14.50				
														15.00				
														15.50				
														16.00				
														16.50				
														17.00				
														17.50				
														18.00				
														18.50				
														19.00				
														19.50				
														20.00				
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm										
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00				
Remarks Rotary open hole from GL to 11.50m																		
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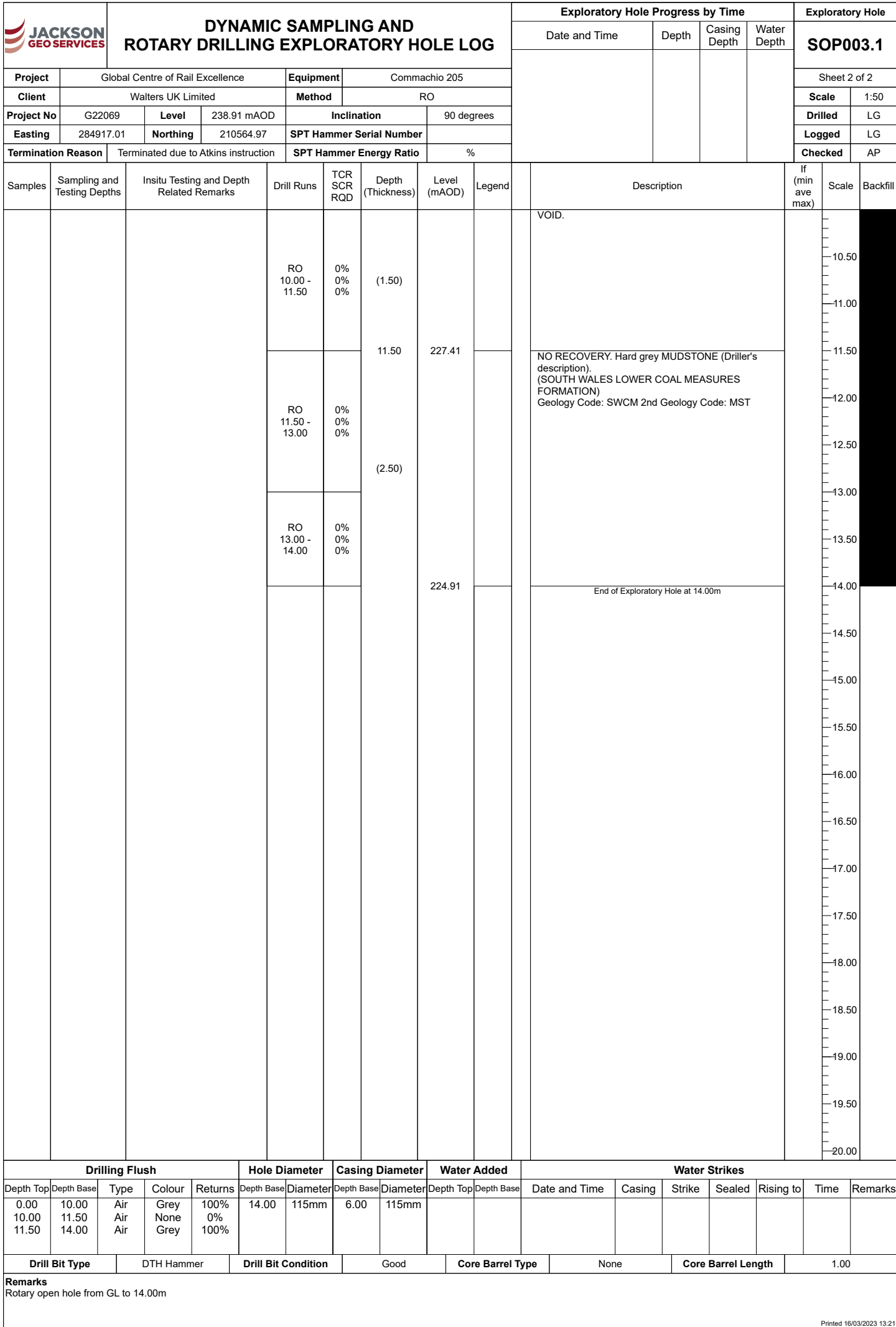
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole							
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.24						
Project		Global Centre of Rail Excellence			Equipment		205						Sheet 2 of 2						
Client		Walters UK Limited			Method		RO						Scale		1:50				
Project No		G22069		Level		239.98 mAOD		Inclination					90 degrees		Drilled		LG		
Easting		284935.92		Northing		210610.33		SPT Hammer Serial Number							Logged		LG		
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%						Checked		AP				
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description			If (min ave max)	Scale	Backfill				
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.48		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				10.50					
										End of Exploratory Hole at 11.50m				11.00					
														11.50					
														12.00					
														12.50					
														13.00					
														13.50					
														14.00					
														14.50					
														15.00					
														15.50					
														16.00					
														16.50					
														17.00					
														17.50					
														18.00					
														18.50					
														19.00					
														19.50					
														20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes								
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks		
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm											
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00					
Remarks Rotary open hole from GL to 11.50m																			
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time						Exploratory Hole			
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.1				
								14/11/2022 15:05 14/11/2022 16:15 15/11/2022 08:00 15/11/2022 11:00		0.00 4.00 4.00 14.00	4.00 4.00 6.00	Dry Dry Dry					
Project		Global Centre of Rail Excellence				Equipment		Commachio 205				Sheet 1 of 2					
Client		Walters UK Limited				Method		RO				Scale 1:50					
Project No		G22069		Level		238.91 mAOD		Inclination		90 degrees		Drilled LG					
Easting		284917.01		Northing		210564.97		SPT Hammer Serial Number				Logged LG					
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked AP					
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description			If (min ave max)	Scale	Backfill	
	1.00		PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black granular coal tailings/MADE GROUND (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR				0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00		
	2.00		PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%										
	3.00		PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%										
	4.00		PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%										
	5.00		PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%	4.50	234.41		NO RECOVERY. Soft silty brown gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL						
	6.00		PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%	(1.50)	232.91								
	7.00		PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%	6.00									
	8.00		PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%	(4.00)									
	9.00		PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						
	10.00		PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%									10.00	228.91
Continued on next Sheet																	
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.00	Air	Grey	100%	14.00	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	14.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 14.00m																	

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.2				
Project		Global Centre of Rail Excellence			Equipment		Commachio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069	Level	238.99 mAOD	Inclination		90 degrees		Drilled	LG							
Easting		284921.52	Northing	210557.30	SPT Hammer Serial Number				Logged	LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked	AP							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
										VOID.							
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(1.50)	227.49				10.50					
	12.50	PID: 0.0ppmv			RO 11.50 - 12.50	0% 0% 0%	(1.00)	226.49		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		11.50					
										End of Exploratory Hole at 12.50m		12.00					
												12.50					
												13.00					
												13.50					
												14.00					
												14.50					
												15.00					
												15.50					
												16.00					
												16.50					
												17.00					
												17.50					
												18.00					
												18.50					
												19.00					
												19.50					
												20.00					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.00	Air	Grey	100%	12.50	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	12.50	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 12.50m																	
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.3				
								15/11/2022 14:30 15/11/2022 16:00 16/11/2022 08:00 16/11/2022 12:30		0.00 4.00 4.00 15.00	4.00 4.00 6.00	Dry Dry Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		238.65 mAOD		Inclination		Drilled LG							
Easting		284911.06		Northing		210573.02		SPT Hammer Serial Number		Logged LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked AP								
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	1.00	PID: 0.1ppmv			RO 0.00 - 1.00		0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00		(4.50)					1.00					
	3.00	PID: 2.9ppmv			RO 2.00 - 3.00							1.50					
	4.00	PID: 0.3ppmv			RO 3.00 - 4.00							2.00					
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00		4.50	234.15		NO RECOVERY. Soft brown silty gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL		2.50					
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00		(1.50)					3.00					
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00		6.00	232.65				3.50					
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00					NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		4.00					
	9.00	PID: 0.1ppmv			RO 8.00 - 9.00							4.50					
	10.00	PID: 0.2ppmv			RO 9.00 - 10.00							5.00					
Continued on next Sheet															5.50		
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole													
										Date and Time		Depth	Casing Depth	Water Depth	SOP003.3												
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2															
Client		Walters UK Limited				Method		RO				Scale	1:50														
Project No		G22069		Level		238.65 mAOD		Inclination				Drilled	LG														
Easting		284911.06		Northing		210573.02		SPT Hammer Serial Number				Logged	LG														
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio				%		Checked	AP														
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill												
	11.50	PID: 0.0ppmv				RO 10.00 - 11.50		(9.00)			NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST																
	13.00	PID: 0.0ppmv				RO 11.50 - 13.00																					
	15.00	PID: 0.0ppmv				RO 13.00 - 15.00			223.65				End of Exploratory Hole at 15.00m														
Drilling Flush																Hole Diameter		Casing Diameter		Water Added		Water Strikes					
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks										
0.00	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm																			
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00													
Remarks Rotary open hole from GL to 15.00m																											
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.5				
								17/11/2022 08:00 17/11/2022 12:30		0.00 15.00	6.00	Dry					
								Sheet 1 of 2									
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205							Scale	1:50				
Client	Walters UK Limited			Method	RO							Drilled	LG				
Project No	G22069	Level	238.74 mAOD	Inclination		90 degrees						Logged	LG				
Easting	284914.67	Northing	210568.92	SPT Hammer Serial Number								Checked	AP				
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill				
	1.00	PID: 0.0ppmv		RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00					
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%				(4.00)								
	3.00	PID: 0.0ppmv		RO 2.00 - 3.00	0% 0% 0%												
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%				4.00	234.74					NO RECOVERY. Soft silty brown gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER GROUND MEASURES) Geology Code: SWCM 2nd Geology Code: CL		
	5.00	PID: 0.1ppmv		RO 4.00 - 5.00	0% 0% 0%	(2.00)											
	6.00	PID: 0.0ppmv		RO 5.00 - 6.00	0% 0% 0%				6.00	232.74		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM					
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%												
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%				(4.00)								
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%												
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%				10.00	228.74		Continued on next Sheet					
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
10.00	11.50	Air	None	0%													
11.50	15.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																	
Rotary open hole from GL to 15.00m																	

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole														
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.5													
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2																
Client		Walters UK Limited			Method		RO			Scale	1:50															
Project No		G22069		Level	238.74 mAOD		Inclination		90 degrees		Drilled	LG														
Easting		284914.67		Northing	210568.92		SPT Hammer Serial Number				Logged	LG														
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked	AP														
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill												
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(1.50)	227.24		VOID.																
					RO 11.50 - 13.00	0% 0% 0%				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM																
					RO 13.00 - 15.00	0% 0% 0%	(3.50)	223.74		End of Exploratory Hole at 15.00m																
Drilling Flush															Hole Diameter		Casing Diameter		Water Added		Water Strikes					
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks									
0.00	10.00	Air	Grey	100%	15.00	115mm	6.00	115mm																		
10.00	11.50	Air	None	0%																						
11.50	15.00	Air	Grey	100%																						
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00											
Remarks Rotary open hole from GL to 15.00m																										
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.6				
								17/11/2022 14:30 17/11/2022 16:30 18/11/2022 08:00 18/11/2022 10:30		0.00 6.00 6.00 13.00	6.00 6.00 6.00	Dry Dry Dry					
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		238.97 mAOD		Inclination		90 degrees							
Easting		284920.83		Northing		210556.89		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked		AP						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%											
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%											
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%											
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%	4.00	234.97		NO RECOVERY. Soft brown silty gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL							
	6.00	PID: 0.1ppmv			RO 5.00 - 6.00	0% 0% 0%	6.00	232.97		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%	(4.00)										
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%											
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%											
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%											
Continued on next Sheet																	
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.00	Air	Grey	100%	13.00	115mm	6.00	115mm									
11.50	10.00	Air	None	0%													
13.00	11.50	Air	Grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 13.00m																	
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP003.7	
18/11/2022 10:45	0.00				
18/11/2022 13:30	5.00	3.00	Dry	Sheet 1 of 2	
21/11/2022 08:00	5.00	3.00	Dry	Scale	1:50
21/11/2022 10:30	15.00	6.00	Dry	Drilled	LG
				Logged	LG
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	15.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None			Core Barrel Length		1.00	

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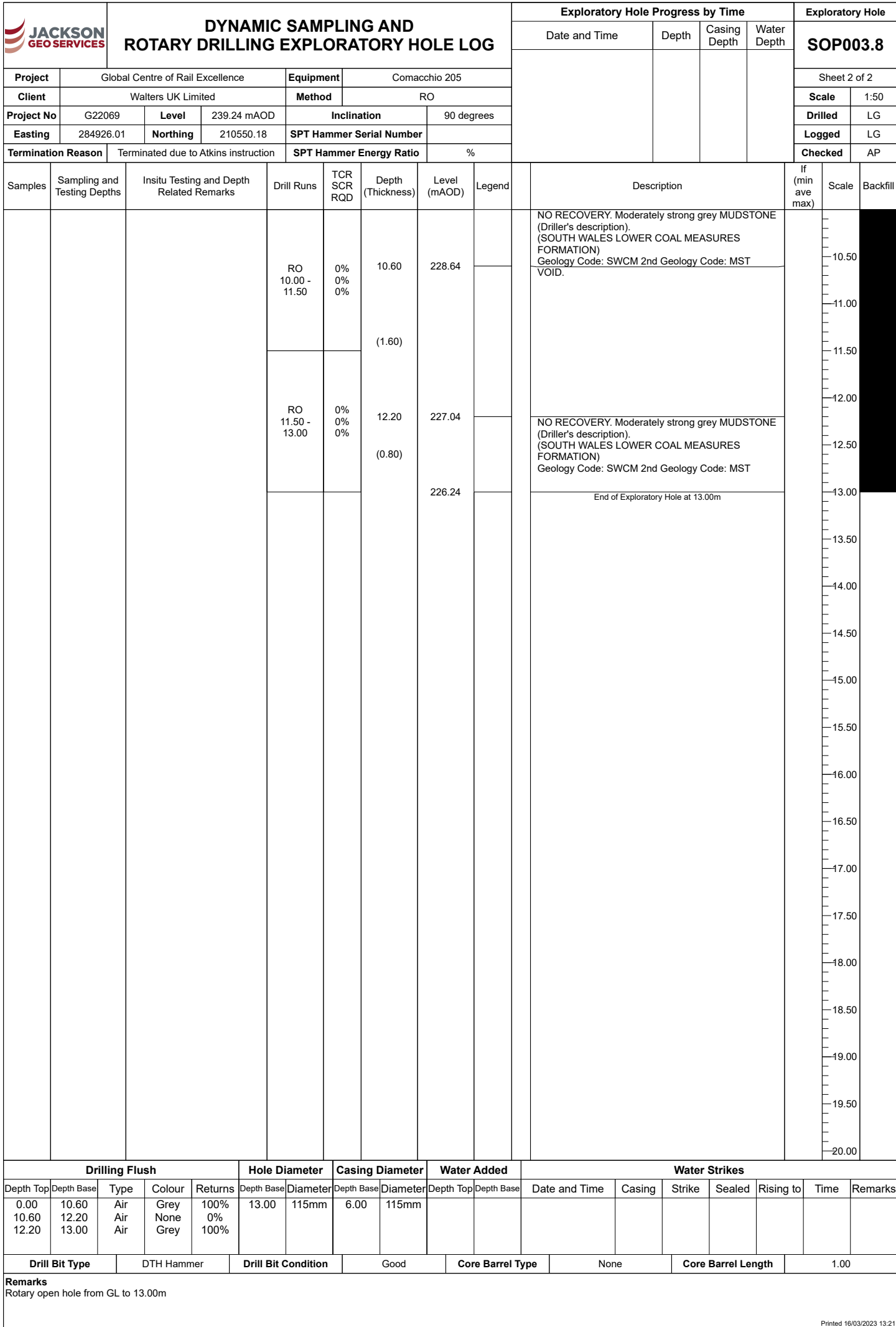
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP003.8	
21/11/2022 10:45 21/11/2022 13:00	0.00 13.00	6.00	Dry		
				Sheet 1 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.60	Air	Grey	100%	13.00	115mm	6.00	115mm									
10.60	12.20	Air	None	0%													
12.20	13.00	Air	Grey	100%													
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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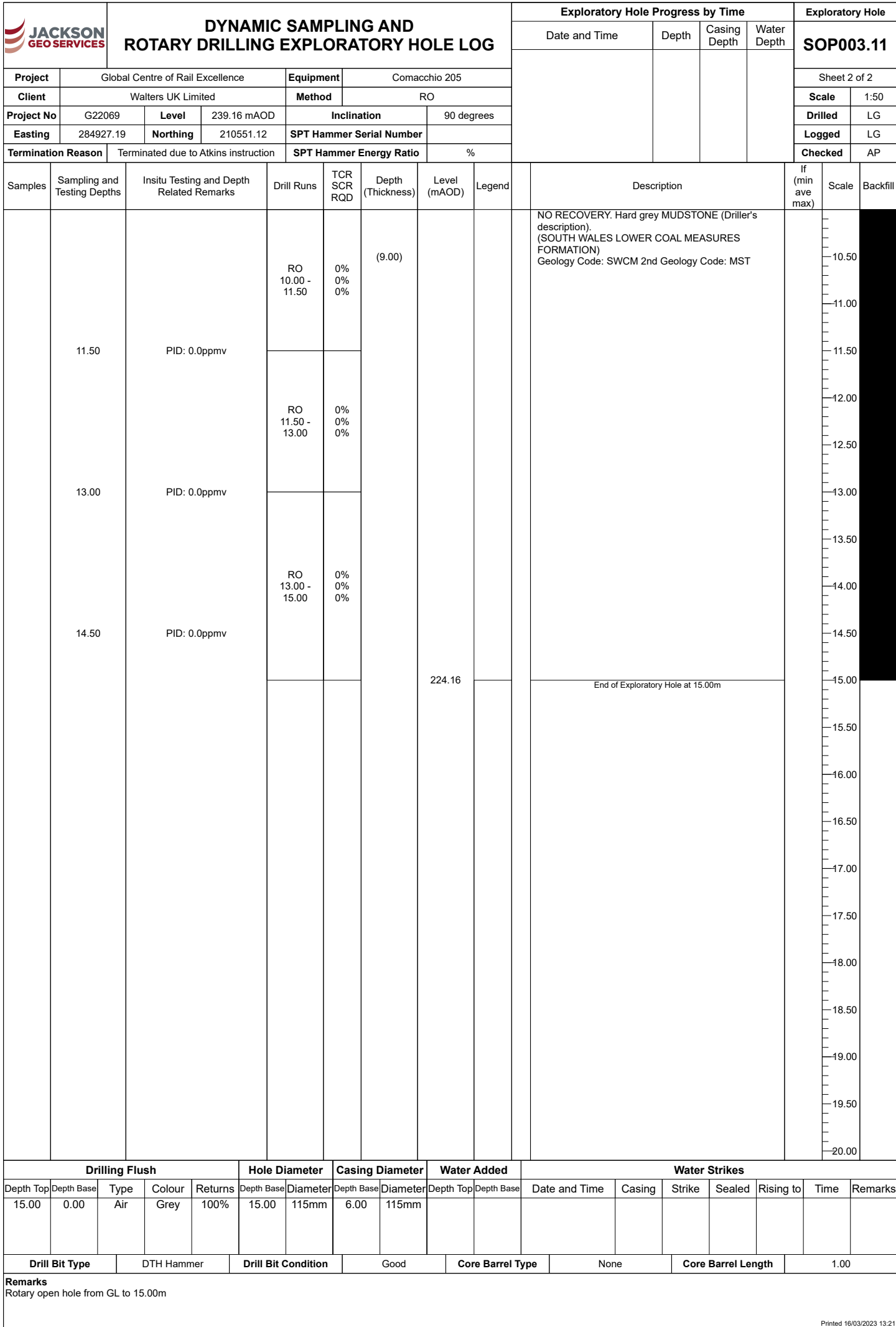


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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time								Exploratory Hole					
												Date and Time				Depth		Casing Depth		Water Depth		SOP003.9 Sheet 2 of 2 Scale1:50 DrilledLG LoggedLG CheckedAP			
												Project		Global Centre of Rail Excellence				Equipment		Comacchio 205					
Client		Walters UK Limited				Method		RO																	
Project No		G22069		Level		239.14 mAOD		Inclination			90 degrees														
Easting		284924.48		Northing		210548.59		SPT Hammer Serial Number																	
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio			%																
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description					If (min ave max)	Scale	Backfill						
	13.00		PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	10.60	228.54		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM VOID.						10.50							
									(1.60)																
							RO 11.50 - 13.00	0% 0% 0%	12.20	226.94		NO RECOVERY. Moderately hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM						11.00							
									(2.80)																
	15.00		PID: 0.0ppmv				RO 13.00 - 15.00	0% 0% 0%		224.14		End of Exploratory Hole at 15.00m						11.50							
															12.00										
																		12.50							
																		13.00							
																		13.50							
																		14.00							
																		14.50							
																		15.00							
																		15.50							
																		16.00							
																		16.50							
																		17.00							
																		17.50							
																		18.00							
																		18.50							
																		19.00							
																		19.50							
																		20.00							
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes														
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks								
0.00	10.60	Air	Grey	100%	15.00	115mm	15.00	115mm																	
10.60	12.20	Air	None	0%																					
12.20	15.00	Air	Grey	100%																					
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00										
Remarks																									
Rotary open hole from GL to 15.00m																									

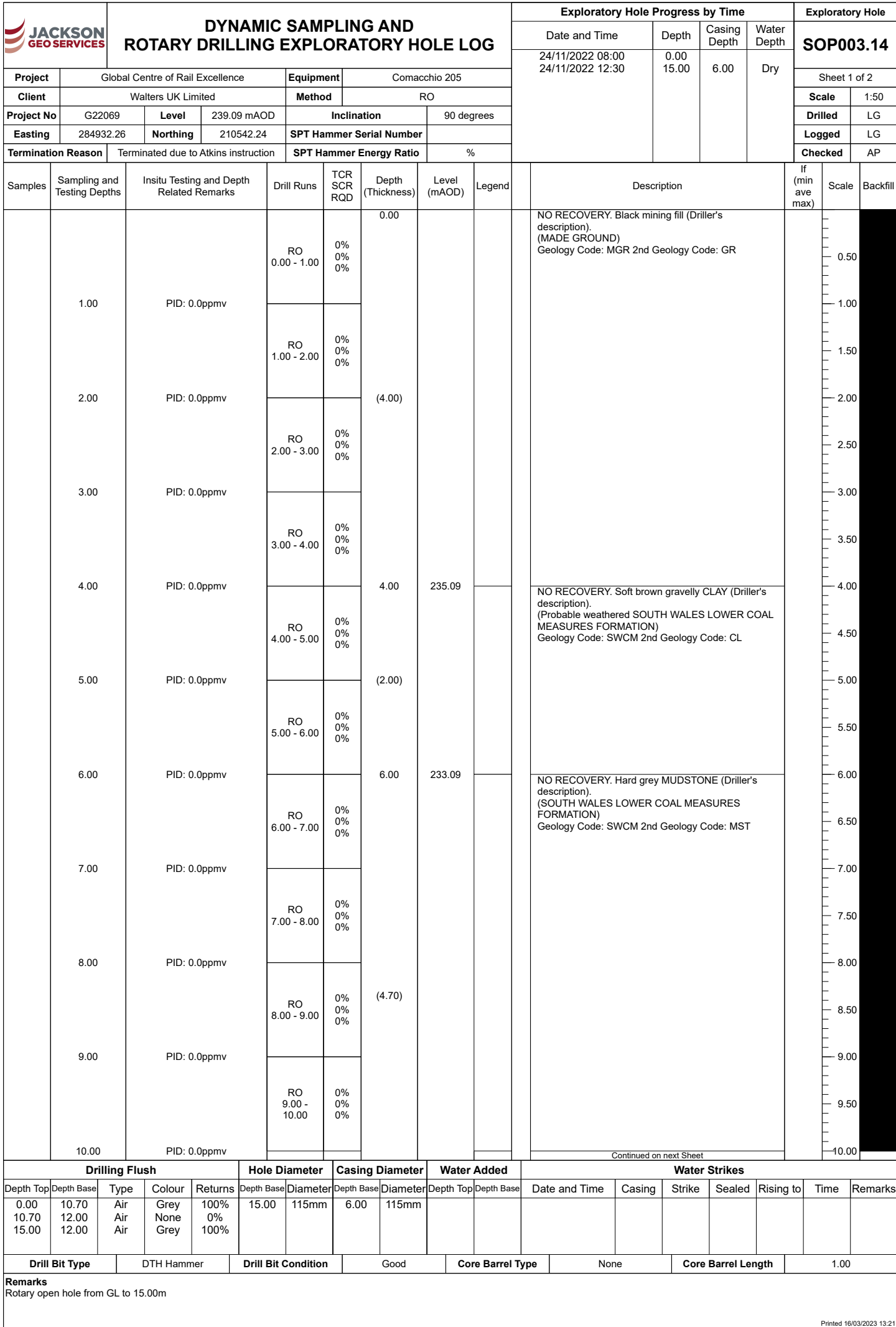
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP003.10		
										Project		Global Centre of Rail Excellence					Equipment
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	239.04 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284923.23		Northing	210547.66		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked	AP					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill			
	11.50	PID: 0.0ppmv			RO 10.00 - 11.50	0% 0% 0%	(9.00)			NO RECOVERY. Moderately hard to hard MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			10.50				
													11.00				
													11.50				
													12.00				
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%							12.50				
													13.00				
													13.50				
	14.50	PID: 0.0ppmv			RO 13.00 - 15.00	0% 0% 0%							14.00				
													14.50				
	15.00	PID: 0.0ppmv						224.04		End of Exploratory Hole at 15.00m			15.00				
													15.50				
													16.00				
													16.50				
													17.00				
													17.50				
													18.00				
													18.50				
													19.00				
													19.50				
													20.00				
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
15.00	0.00	Air	Grey	100%	15.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 15.00m																	
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time					Exploratory Hole						
												Date and Time		Depth	Casing Depth	Water Depth	SOP003.12						
																						Sheet 2 of 2	
												Scale		1:50									
												Drilled		LG									
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Logged		LG									
Client		Walters UK Limited				Method		RO				Checked		AP									
Project No		G22069		Level		238.86 mAOD		Inclination		90 degrees													
Easting		284930.58		Northing		210540.62		SPT Hammer Serial Number															
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%															
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description			If (min ave max)	Scale	Backfill						
	11.50		PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	(9.00)			NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST				10.50							
	13.00		PID: 0.0ppmv				RO 11.50 - 13.00	0% 0% 0%								11.00							
	14.50		PID: 0.0ppmv													11.50							
	15.00		PID: 0.0ppmv													12.00							
							RO 13.00 - 15.00	0% 0% 0%		223.86		End of Exploratory Hole at 15.00m				12.50							
																13.00							
																13.50							
																14.00							
																14.50							
																15.00							
																15.50							
																16.00							
																16.50							
																17.00							
																17.50							
																18.00							
																18.50							
																19.00							
																19.50							
																20.00							
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes												
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks						
15.00	0.00	Air	Grey	100%	15.00	115mm																	
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00									
Remarks Rotary open hole from GL to 15.00m																							



		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time					Exploratory Hole	
												Date and Time		Depth	Casing Depth	Water Depth	SOP003.14	
																	Sheet 2 of 2	
																	Scale	1:50
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Drilled		LG				
Client		Walters UK Limited				Method		RO				Logged		LG				
Project No		G22069		Level		239.09 mAOD		Inclination		90 degrees		Checked		AP				
Easting		284932.26		Northing		210542.24		SPT Hammer Serial Number										
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description				If (min ave max)	Scale	Backfill	
	10.70	PID: 0.0ppmv				RO 10.00 - 11.50	0% 0% 0%	10.70	228.39		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST					10.50		
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%	12.00	227.09		VOID.					11.00			
														11.50				
	15.00	PID: 0.0ppmv				RO 13.00 - 15.00	0% 0% 0%	(3.00)	224.09		NO RECOVERY. Hard to moderately hard MUDSTONE (Driller's description) (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST					12.00		
End of Exploratory Hole at 15.00m																	12.50	
																	13.00	
																	13.50	
																	14.00	
																	14.50	
																	15.00	
																	15.50	
																	16.00	
																	16.50	
																	17.00	
																	17.50	
																	18.00	
																	18.50	
																	19.00	
																	19.50	
																	20.00	
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes							
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks	
0.00	10.70	Air	Grey	100%	15.00	115mm	6.00	115mm										
10.70	12.00	Air	None	0%														
15.00	12.00	Air	Grey	100%														
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks																		
Rotary open hole from GL to 15.00m																		
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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.15				
								24/11/2022 13:30		0.00	6.00	Dry					
								24/11/2022 16:00		17.00							
								25/11/2022 08:00		17.00							
25/11/2022 12:30		25.00	6.00	Dry													
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 1 of 3							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.01 mAOD		Inclination		90 degrees							
Easting		284934.71		Northing		210537.17		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked		AP						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description	If (min ave max)	Scale	Backfill				
	1.00	PID: 0.0ppmv			RO 0.00 - 1.00	0% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		0.50					
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%											
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%											
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%											
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%	4.00	235.01		NO RECOVERY. Soft brown silty gravelly CLAY (Driller's description). (Probable weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL		4.00					
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%	5.00	234.01		NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		5.00					
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%											
	8.00	PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%											
	9.00	PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%											
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	(7.00)					9.50					
Continued on next Sheet														10.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
25.00	0.00	Air	Black/ Grey	100%	25.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 25.00m																	
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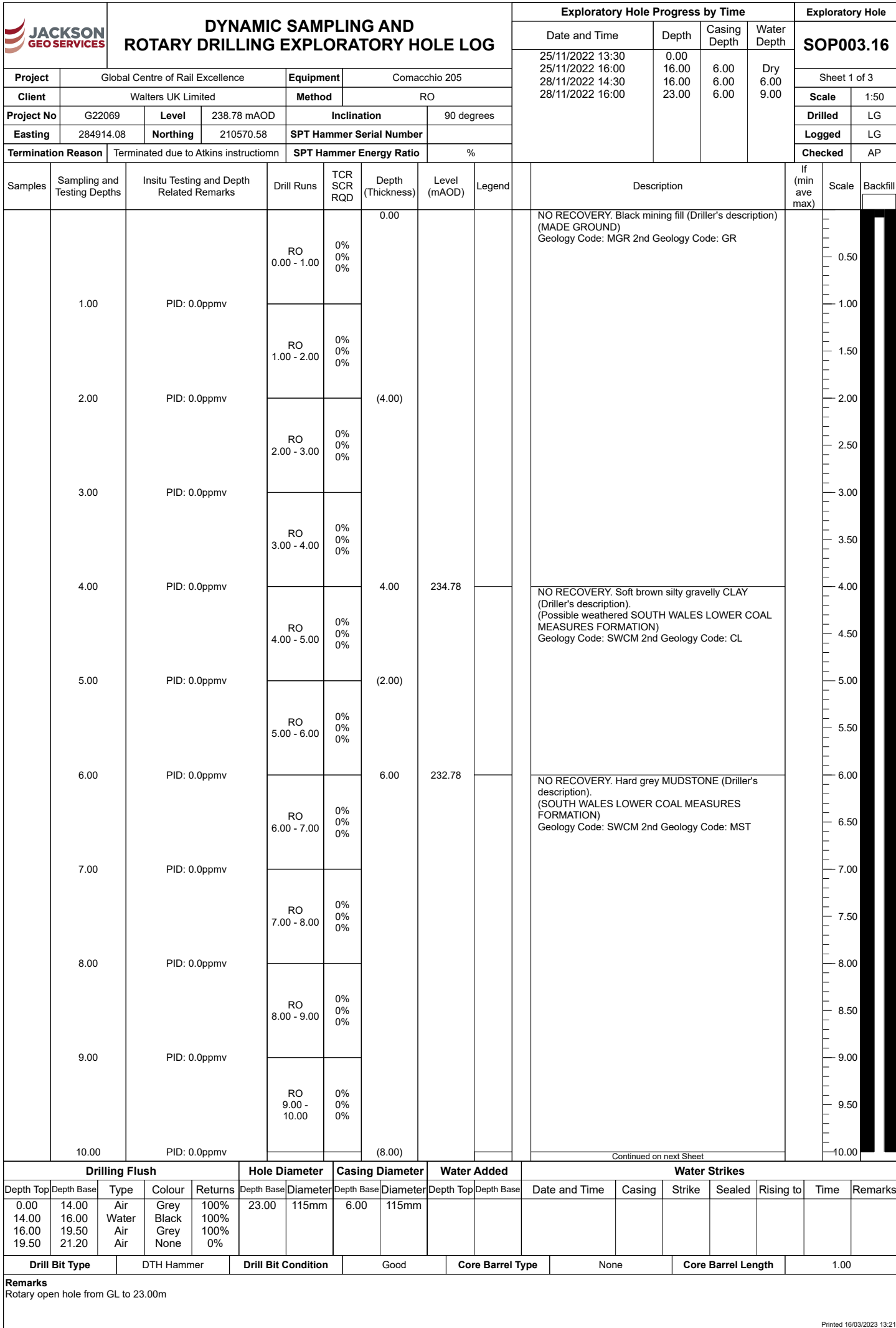


Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time	Depth	Casing Depth	Water Depth	SOP003.15 Sheet 2 of 3 <table><tr><td>Scale</td><td>1:50</td></tr><tr><td>Drilled</td><td>LG</td></tr><tr><td>Logged</td><td>LG</td></tr><tr><td>Checked</td><td>AP</td></tr></table>		Scale	1:50	Drilled	LG	Logged	LG	Checked	AP
Scale	1:50												
Drilled	LG												
Logged	LG												
Checked	AP												

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
25.00	0.00	Air	Black/ Grey	100%	25.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG								Exploratory Hole Progress by Time				Exploratory Hole			
										Date and Time		Depth	Casing Depth	Water Depth	SOP003.15		
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 3 of 3					
Client		Walters UK Limited				Method		RO				Scale	1:50				
Project No		G22069		Level		239.01 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284934.71		Northing		210537.17		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked	AP				
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks				Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description		If (min ave max)	Scale	Backfill		
	20.50	PID: 0.0ppmv				RO 20.00 - 21.50	0% 0% 0%				NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: MST			20.50			
	22.00	PID: 0.0ppmv				RO 21.50 - 23.00	0% 0% 0%						21.00				
	23.50	PID: 0.0ppmv				RO 23.00 - 25.00	0% 0% 0%						21.50				
	25.00	PID: 0.0ppmv						214.01					22.00				
											End of Exploratory Hole at 25.00m			22.50			
														23.00			
														23.50			
														24.00			
														24.50			
														25.00			
														25.50			
														26.00			
														26.50			
														27.00			
														27.50			
														28.00			
														28.50			
														29.00			
														29.50			
														30.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
25.00	0.00	Air	Black/ Grey	100%	25.00	115mm	6.00	115mm									
Drill Bit Type		DTH Hammer			Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00		
Remarks Rotary open hole from GL to 25.00m																	
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP003.16	
				Sheet 2 of 3	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	14.00	Air	Grey	100%	23.00	115mm	6.00	115mm									
14.00	16.00	Water	Black	100%													
16.00	19.50	Air	Grey	100%													
19.50	21.20	Air	None	0%													
Drill Bit Type		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			

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