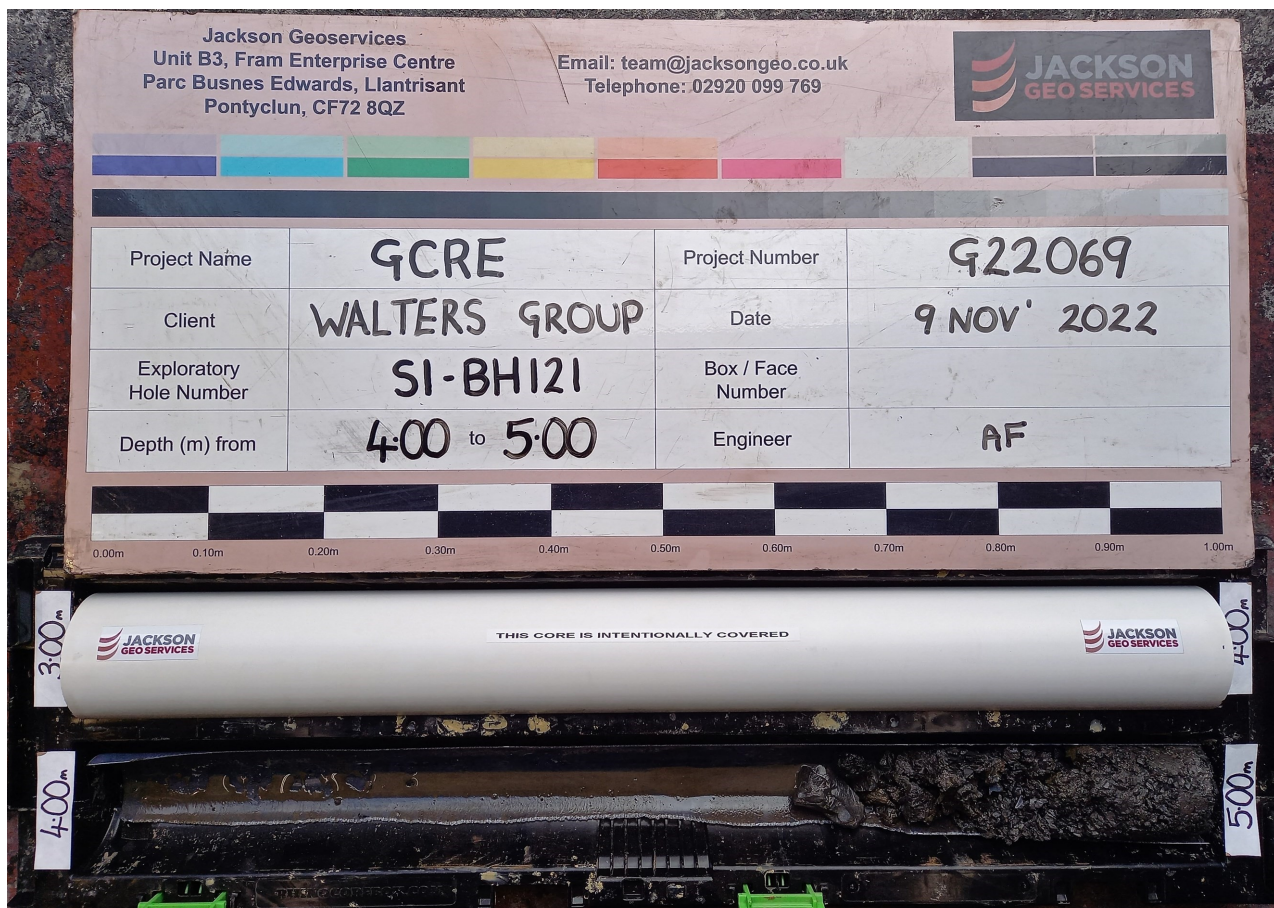


		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.70m depth. Dynamic sampling from 0.70m to 6.50m depth. Rotary coring from 6.50m to 10.50m depth.		Exploratory Hole S1-BH121
Project	Global Centre of Rail Excellence	Easting	284475.72	Equipment	Beretta T44/Insulated Hand 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

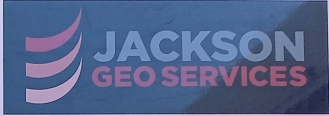


S1-BH121 4.00 m to 5.00 m

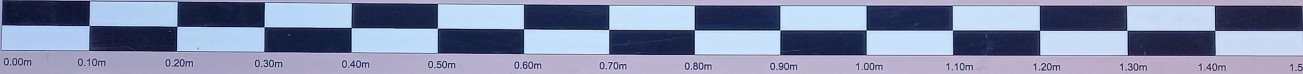
		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 0.70m depth. Dynamic sampling from 0.70m to 6.50m depth. Rotary coring from 6.50m to 10.50m depth.		Exploratory Hole S1-BH121
Project	Global Centre of Rail Excellence	Easting	284475.72	Equipment	Beretta T44/Insulated Hand 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



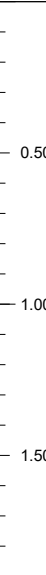
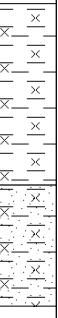


S1-BH121 9.00 m to 10.50 m

DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG

Project	Global Centre of Rail Excellence			Equipment	Beretta T44/Insulated Hand Tools
Client	Walters UK Limited			Method	DS/RC/IP
Project No	G22069	Level	230.82 mAOD	Inclination	
Easting	284632.90	Northing	210701.30	SPT Hammer Serial Number	TECH1
Termination Reason	Scheduled depth			SPT Hammer Energy Ratio	66 %

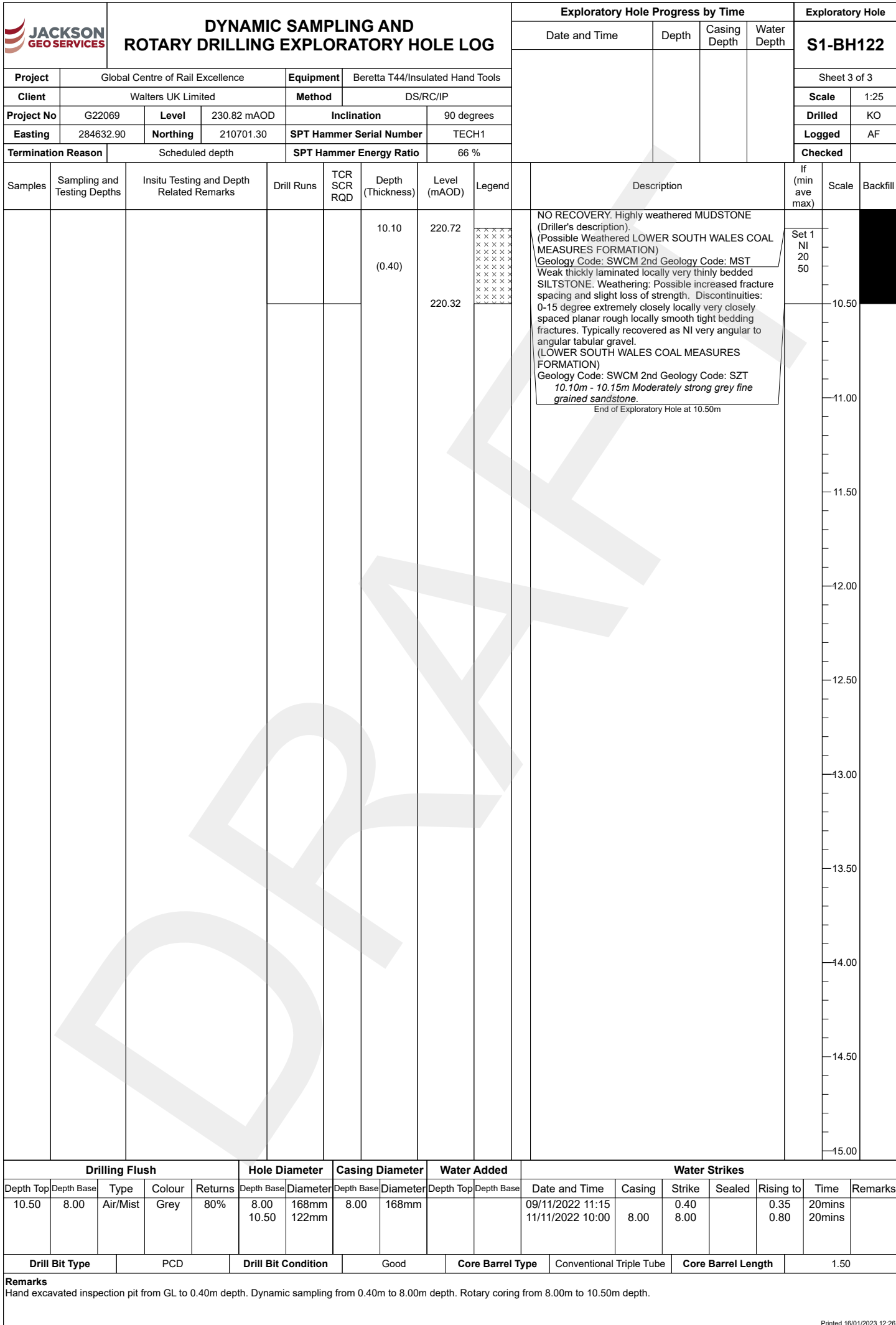
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH122 Sheet 1 of 3	
09/11/2022 11:10	0.00				
09/11/2022 16:00	5.00	4.00	2.10		
11/11/2022 08:30	5.00	4.00	0.80		
11/11/2022 16:26	10.50	8.00	0.80	Scale	1:25
				Drilled	KO
				Logged	AF
				Checked	

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	
2 B	0.00 - 0.40	PID: 0.0ppmv Recovered as D from window sample 0.50-1.20m	DS 0.40 - 1.20	12% 0% 0%	0.00	230.42		Dark grey slightly sandy slightly silty angular fine to coarse GRAVEL of mudstone with low cobble content. Sand is fine to coarse. Cobbles are angular of mudstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR	0.50			
1 ES	0.20 - 0.30 0.30				0.40							
1 D	0.50 - 1.20				(1.50)							
2 UT	1.20 - 1.70 1.50	Blows: 6 Rec: 100% Dia: 100mm Water: 0.40 PID: 0.0ppmv				228.92		Spongy dark brown psuedo-fibrous PEAT with many fibrous plant remains. (PEAT) Geology Code: PEAT 2.00m - 2.40m Wet/saturated.	2.00			
3 D	1.70 - 1.90 1.70	PID: 0.0ppmv										
101 ES 4 D	2.00 - 2.20 2.00 - 2.45 2.00 2.00	SPT(S) N=2 (1,0/0,1,0,1) Casing: 2.00 Water: Wet PID: 0.0ppmv										
102 D	2.60 - 2.70	PID: 0.5ppmv Blows: 5 Rec: 100% Dia: 100mm Water: Wet	DS 2.00 - 3.00	80% 0% 0%	(2.10)			Soft becoming soft to firm grey slightly peaty slightly sandy slightly gravelly silty CLAY with occasional rootlets (<1-2mm). Gravel is angular to subangular fine of extremely weak mudstone. (Possible DEVENSIAN GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL 4.15m - 4.50m Soft to firm.	2.50			
6 UT	3.00 - 3.50 3.00											
7 D	3.50 - 3.70											
8 D	4.00 - 4.45 4.00 4.00	SPT(S) N=9 (1,1/2,2,3,2) Casing: 4.00 Water: Wet PID: 0.2ppmv	DS 4.00 - 5.00	85% 0% 0%	(0.60)	226.82		Firm grey slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine of extremely weak to very weak mudstone. (Possible DEVENSIAN GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL	4.00			
103 D	4.20 - 4.30											
104 D	4.70 - 4.80											
10 D	5.00 - 5.45				5.00	225.82		Continued on next Sheet	5.00			

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
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	

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.

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S1-BH122				
Project		Global Centre of Rail Excellence			Equipment		Beretta T44/Insulated Hand Tools			Sheet 2 of 3							
Client		Walters UK Limited			Method		DS/RC/IP			Scale 1:25							
Project No		G22069		Level		230.82 mAOD		Inclination		90 degrees							
Easting		284632.90		Northing		210701.30		SPT Hammer Serial Number		TECH1							
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		66 %			Checked							
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				
17 D	5.00 - 5.45 5.00 5.00	SPT(S) N=12 (1,2/3,3,3,3) Casing: 5.00 Water: 0.80 PID: 0.1ppmv			DS 5.00 - 6.00	55% 0% 0%	(1.00)			Medium dense grey very clayey becoming clayey slightly gravelly locally gravelly fine to coarse SAND. Gravel is very angular to subangular fine of predominantly siltstone and fine sandstone with occasional mudstone. (Possible DEVANSIAN GLACIAL TILL) Geology Code: GT 2nd Geology Code: SD 5.00m - 5.45m Clayey.		5.50					
105 B	5.50 - 6.00																
12 D 13 D	6.00 - 6.45 6.00 - 7.00 6.00 6.00	SPT(S) N=8 (1,2/2,2,2,2) Casing: 6.00 Water: 0.80 PID: 0.0ppmv			DS 6.00 - 7.00	0% 0% 0%	6.00	224.82		NO RECOVERY. SPT D samples recovered as loose SAND and GRAVEL. Sand is fine to coarse. Gravel is very angular to subangular fine to medium of siltstone, fine grained sandstone and mudstone. (Possible Weathered LOWER SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: GR		6.00					
14 D 15 D	7.00 - 7.45 7.00 - 8.00 7.00 7.00	SPT(S) N=19 (2,4/4,4,6,5) Casing: 7.00 Water: 0.80 PID: 0.0ppmv			DS 7.00 - 8.00	0% 0% 0%	(2.00)					7.00					
16 D	8.00 - 8.45 8.00 8.00	SPT(S) N=21 (2,3/5,5,5,6) Casing: 8.00 Water: 0.80 PID: 0.0ppmv			RC 8.00 - 9.00	0% 0% 0%	8.00	222.82		NO RECOVERY. SPT D sample recovered as medium dense grey slightly silty slightly sandy very angular to subangular fine to medium GRAVEL of siltstone with a little light grey very clayey sand. Sand is fine to coarse. (Possible Weathered LOWER SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: GR NO RECOVERY. Highly weathered MUDSTONE (Driller's description). (Possible Weathered LOWER SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		8.00					
	9.00 9.00	SPT(C) N=48 (5,7/9,10,14,15) Casing: 8.00 Water: 0.80 PID: 0.0ppmv			RC 9.00 - 10.50	27% 4% 0%	8.45	222.37		NO RECOVERY. Highly weathered MUDSTONE (Driller's description). (Possible Weathered LOWER SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		8.50					
							9.00	221.82				9.00					
							(1.10)					9.50					
												10.00					
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
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			
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.																	
Printed 16/01/2023 12:26																	



		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
Client	Walters UK Limited	Northing	210701.30	Method	DS/RC/IP
Project No	G22069	Level	230.82 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 2



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	



S1-BH122 5.00 m to 6.00 m

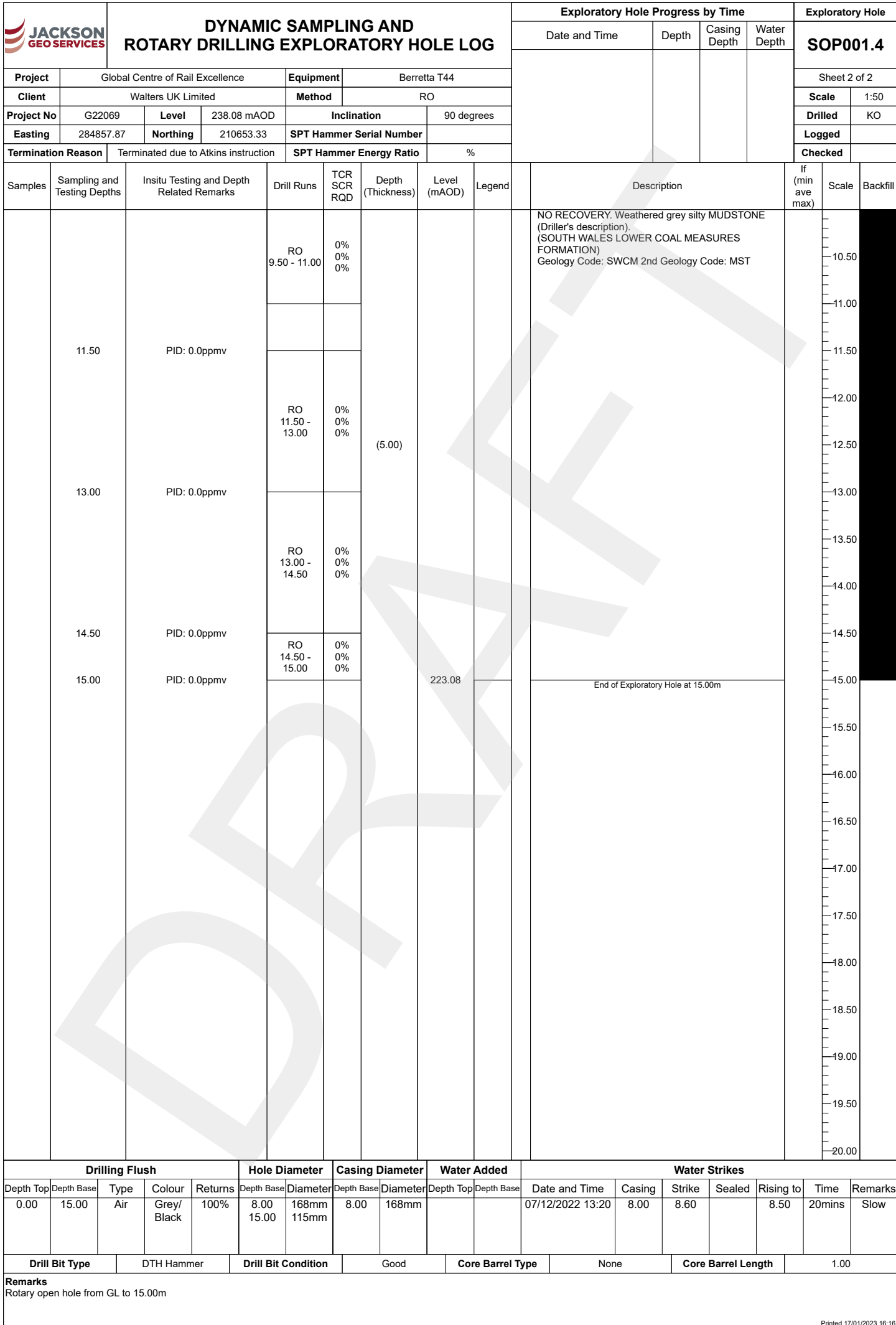


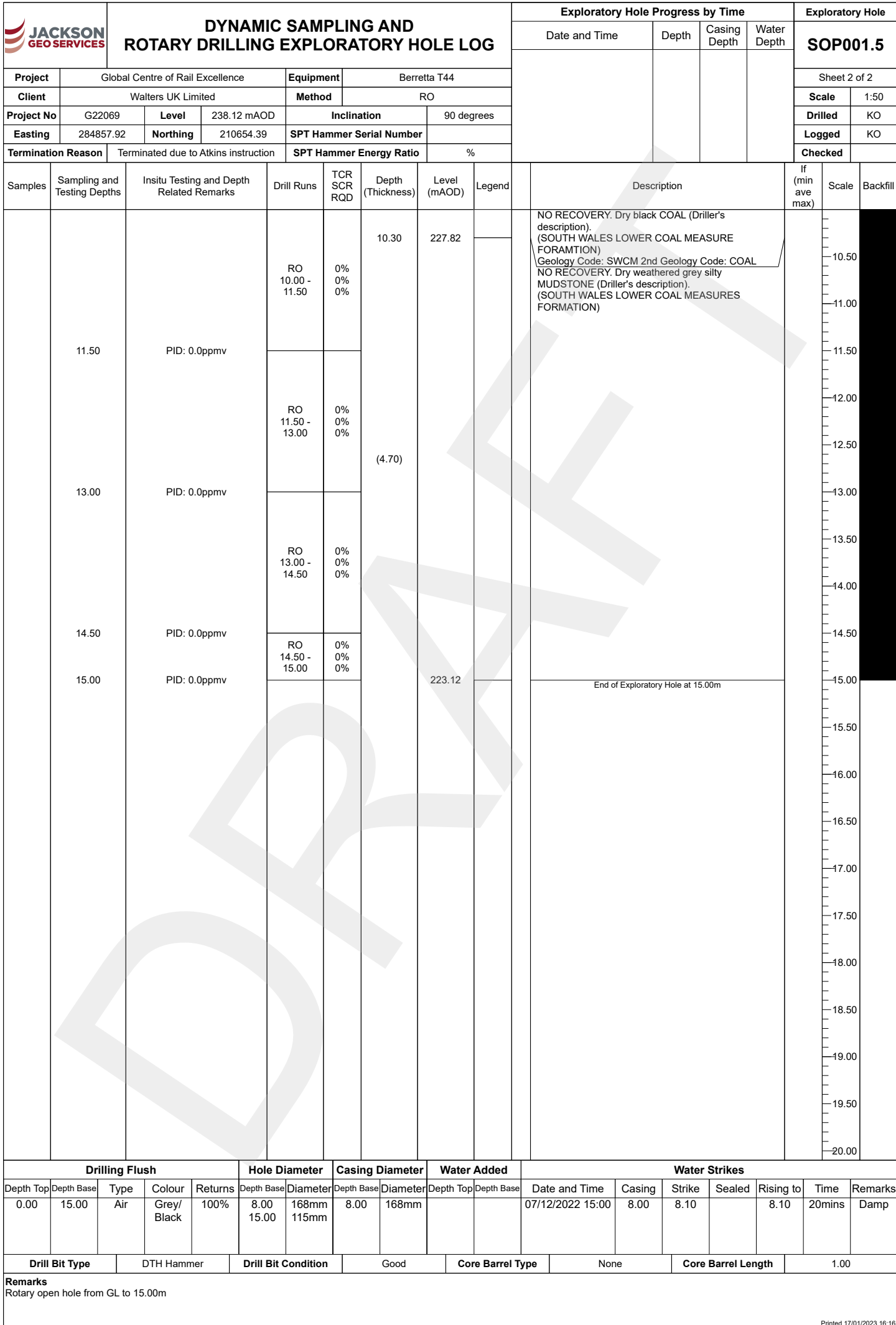
S1-BH122 9.00 m to 10.50 m

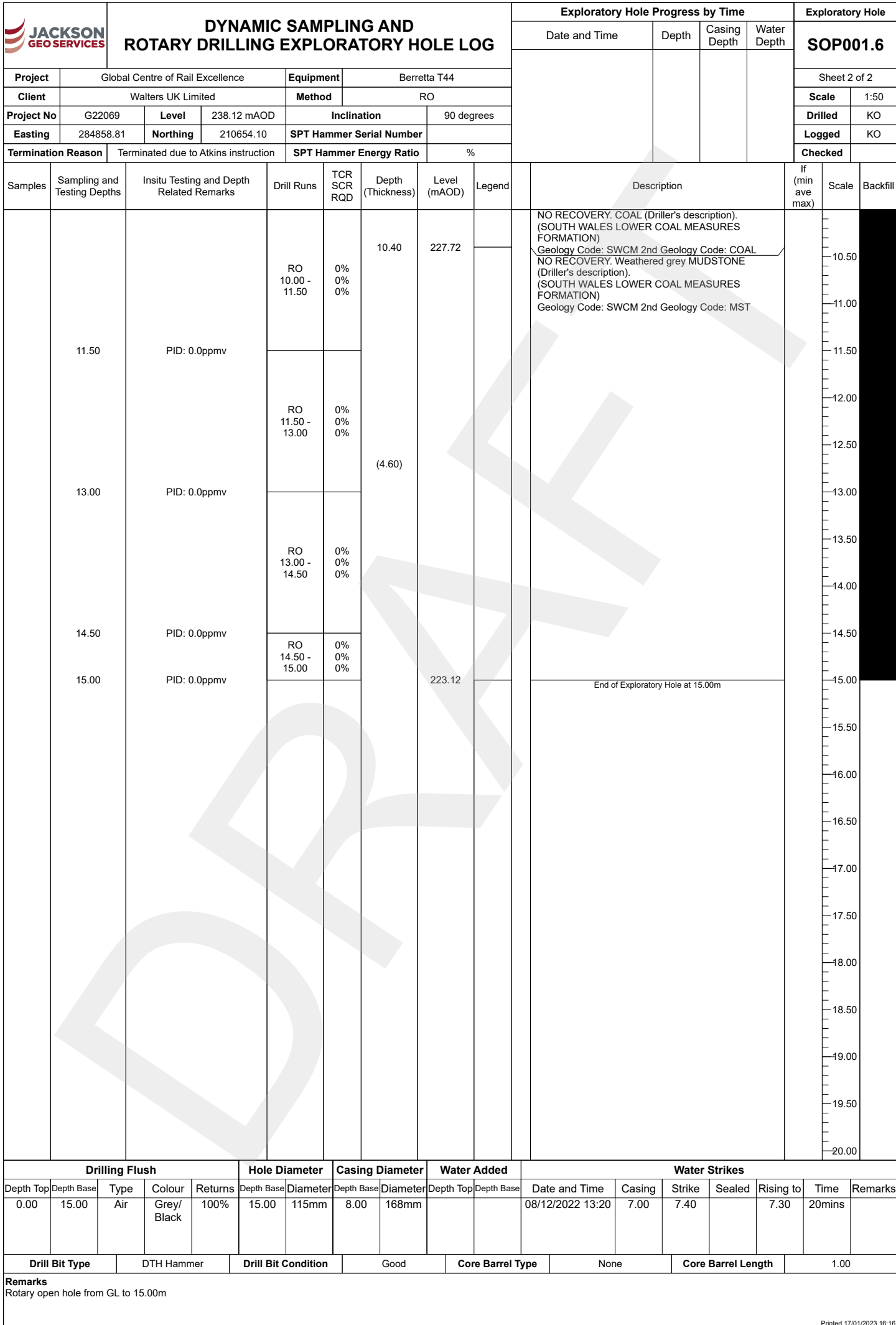
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.1				
Project		Global Centre of Rail Excellence			Equipment		Berretta T44			Sheet 2 of 3							
Client		Walters UK Limited			Method		RO			Scale		1:50					
Project No		G22069		Level		238.25 mAOD		Inclination		90 degrees		Drilled		KO			
Easting		284859.02		Northing		210652.87		SPT Hammer Serial Number				Logged		KO			
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%					Checked					
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%				NO RECOVERY. Grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) 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			
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%								13.50			
														14.00			
											14.50						
	16.00	PID: 0.0ppmv			RO 14.50 - 16.00	0% 0% 0%					15.00						
											15.50						
											16.00						
	17.50	PID: 0.0ppmv			RO 16.00 - 17.50	0% 0% 0%					16.50						
											17.00						
											17.50						
	19.00	PID: 0.0ppmv			RO 17.50 - 19.00	0% 0% 0%					18.00						
											18.50						
											19.00						
					RO 19.00 - 20.50	0% 0% 0%					19.50						
											20.00						
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	25.00	Air	Grey/Black	100%	7.00	168mm 115mm	7.00	168mm			07/12/2022 08:23	8.00	8.00	0.00	7.70	20mins	Medium
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																	
Printed 17/01/2023 16:16																	

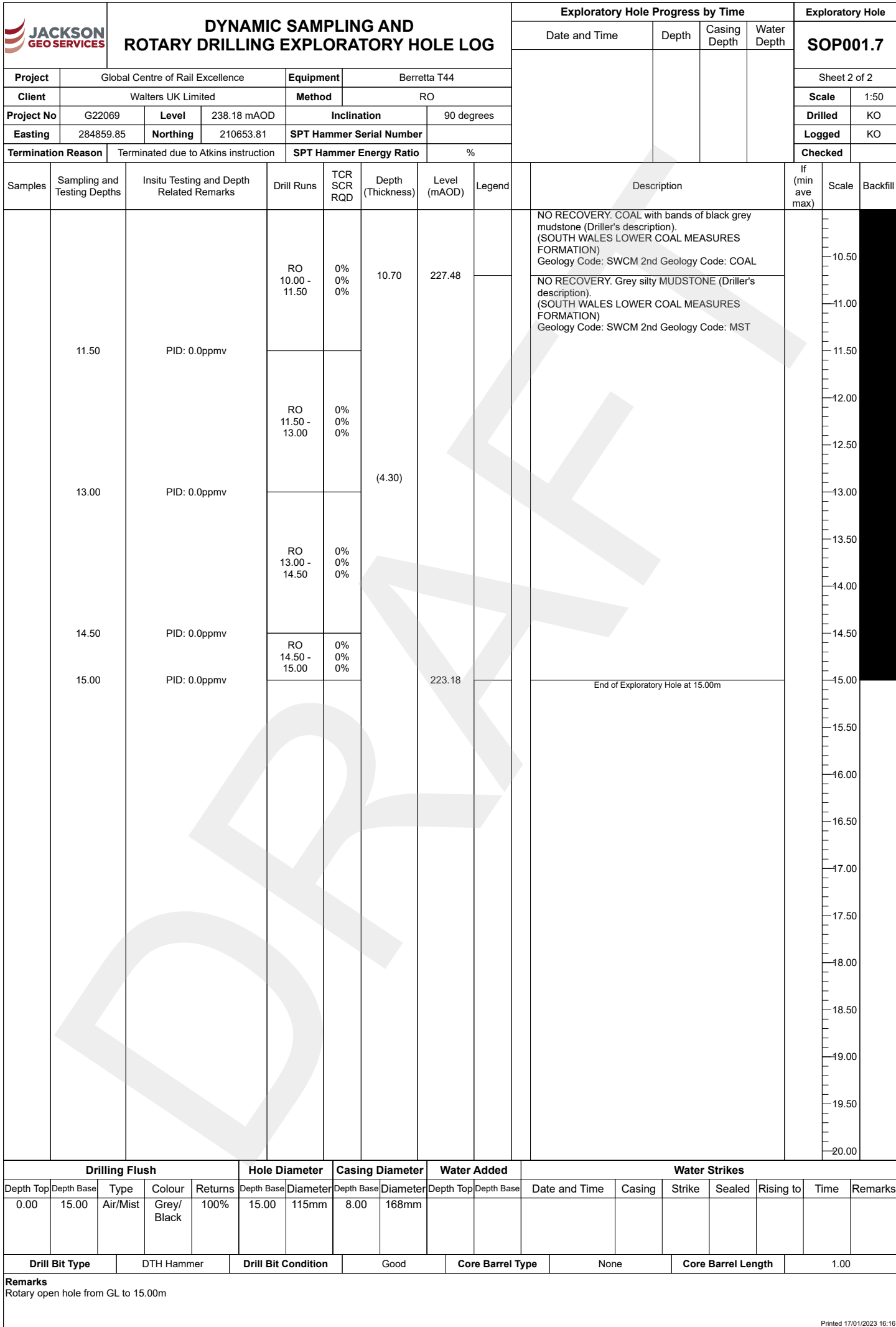
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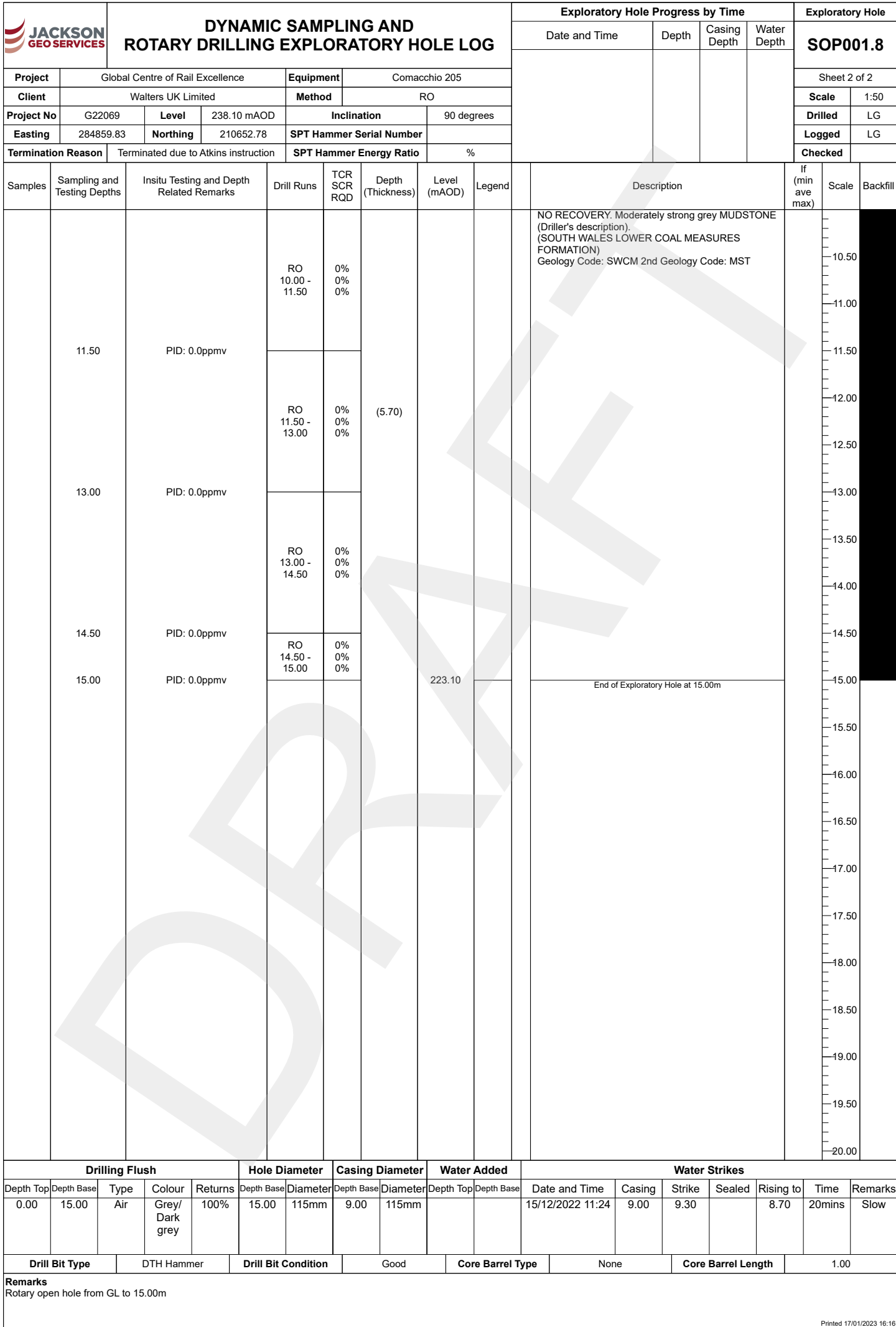
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole						
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.2					
Project		Global Centre of Rail Excellence				Equipment						Sheet 2 of 2						
Client		Walters UK Limited				Method						Scale	1:50					
Project No		G22069		Level		238.12 mAOD		Inclination		90 degrees		Drilled						
Easting		284858.83		Northing		210651.97		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked						
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%	(1.30) 10.80	227.32		NO RECOVERY. Wet COAL (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: COAL		10.50					
	13.00	PID: 0.0ppmv				RO 11.50 - 13.00	0% 0% 0%	(4.20)			NO RECOVERY. Grey silty MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		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%		223.12				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/Black	100%	9.00	168mm 115mm	9.00	168mm			07/12/2022 08:21	7.50	7.80	0.00	7.60	20mins	Medium	
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length			
Remarks Rotary open hole from GL to 15.00m																		

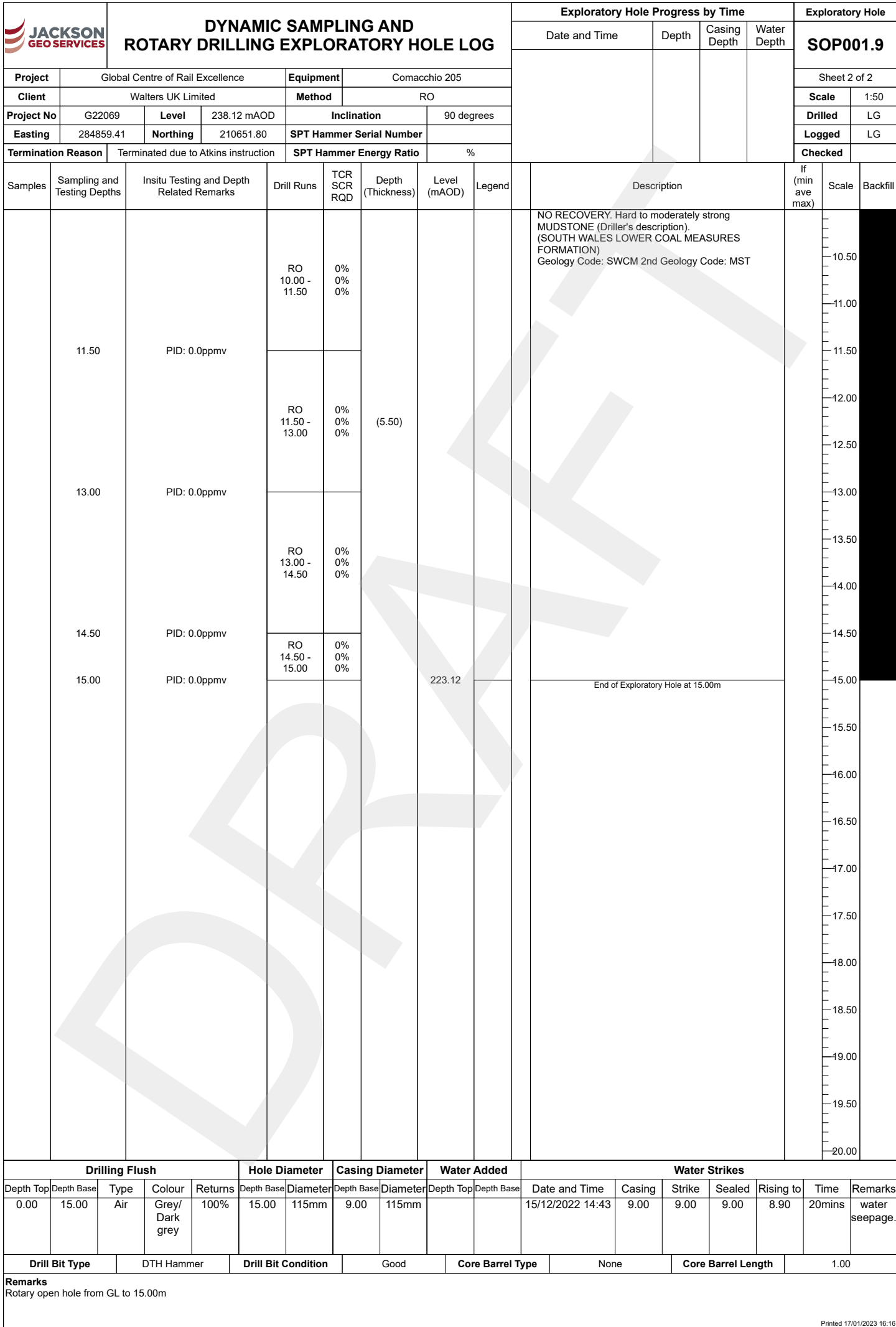














Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.10	
				Sheet 2 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	

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	SOP001.11				
								16/12/2022 11:30 16/12/2022 13:57		0.00 15.00	9.00	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	238.07 mAOD	Inclination		90 degrees					Drilled	LG					
Easting	284857.94	Northing	210651.00	SPT Hammer Serial Number							Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%					Checked					
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								
	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%	(8.00)											
	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%				NO RECOVERY. Dark grey MUDSTONE with thin bands of coal. (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%	(1.00)	230.07										
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	9.00	229.07		NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
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	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																	
Printed 17/01/2023 16:16																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.11				
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		238.07 mAOD		Inclination		90 degrees		Drilled LG					
Easting		284857.94		Northing		210651.00		SPT Hammer Serial Number				Logged LG					
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked					
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)			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			
	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%		223.07		End of Exploratory Hole at 15.00m			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																	

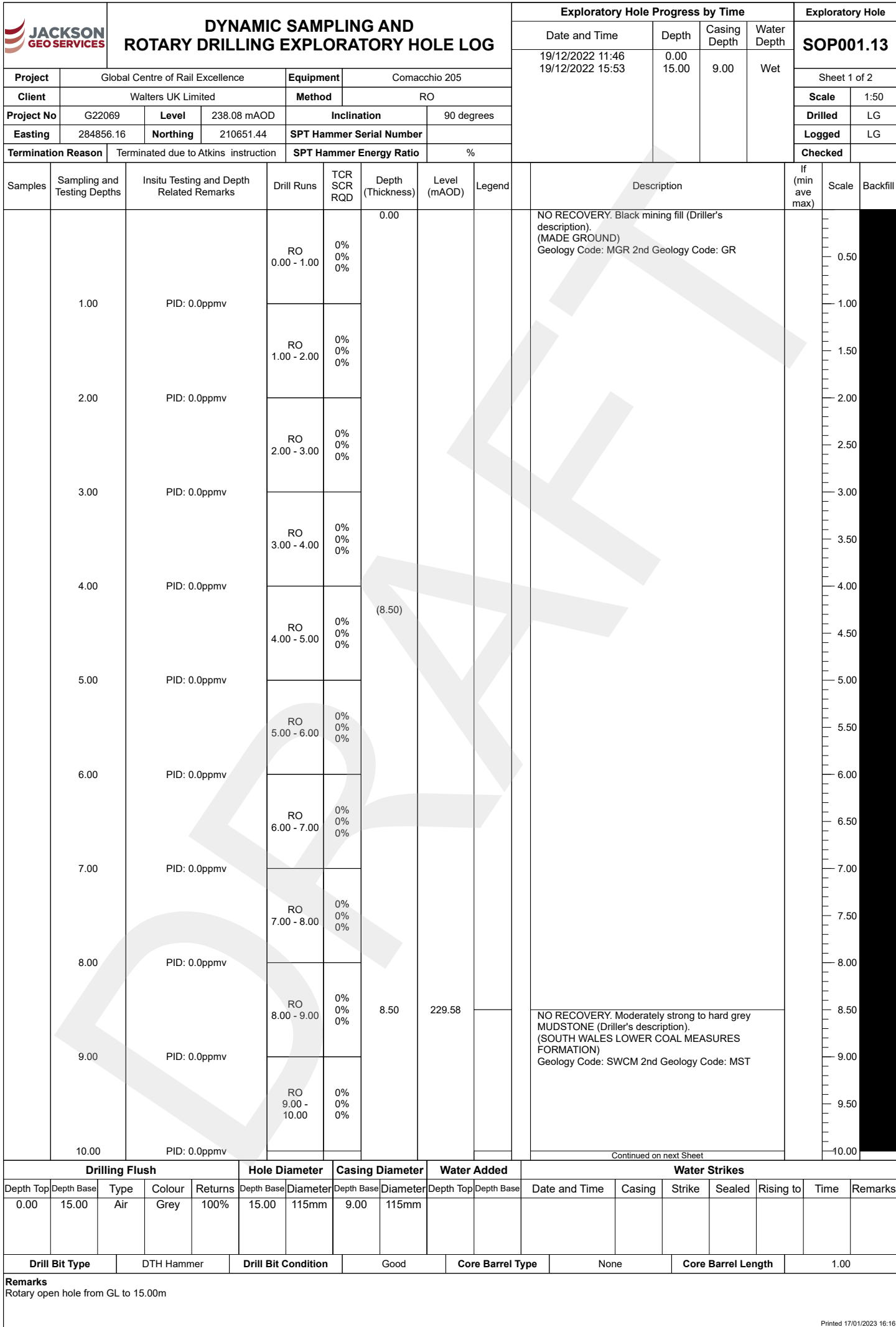
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.12				
								16/12/2022 14:01 16/12/2022 14:57 19/12/2022 08:35 19/12/2022 10:37		0.00 9.00 9.00 15.00	9.00 9.00 9.00	Dry 7.20 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	238.09 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284856.93		Northing	210651.27		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked						
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 mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR							
	2.00	PID: 0.0ppmv			RO 1.00 - 2.00	0% 0% 0%											
	3.00	PID: 0.1ppmv			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%	(8.50)										
	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%	8.50 (0.50)	229.59		NO RECOVERY. Banded MUDSTONE and thin coal bands (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%	9.00	229.09		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
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	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	SOP001.12	
				Sheet 2 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	

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		

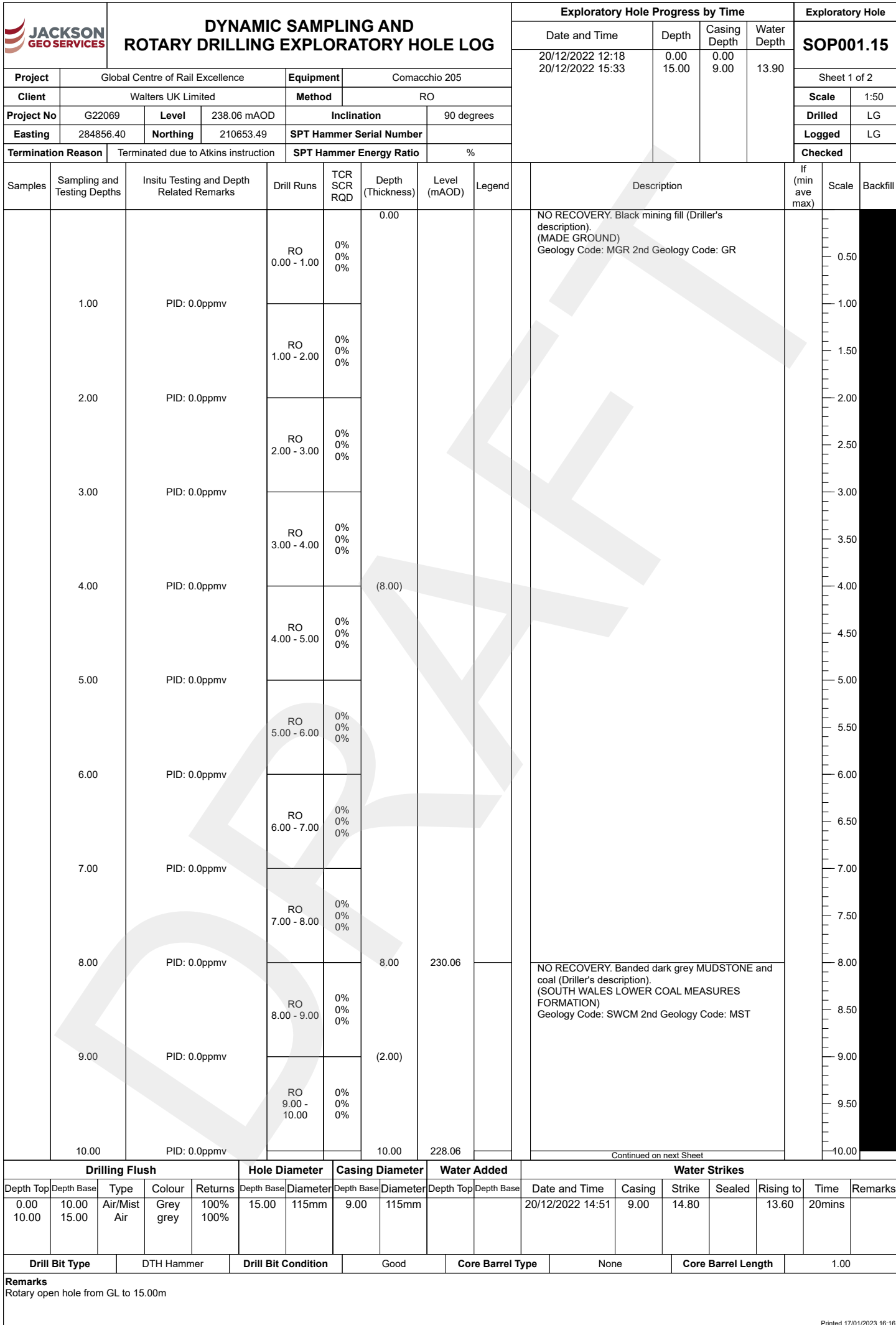
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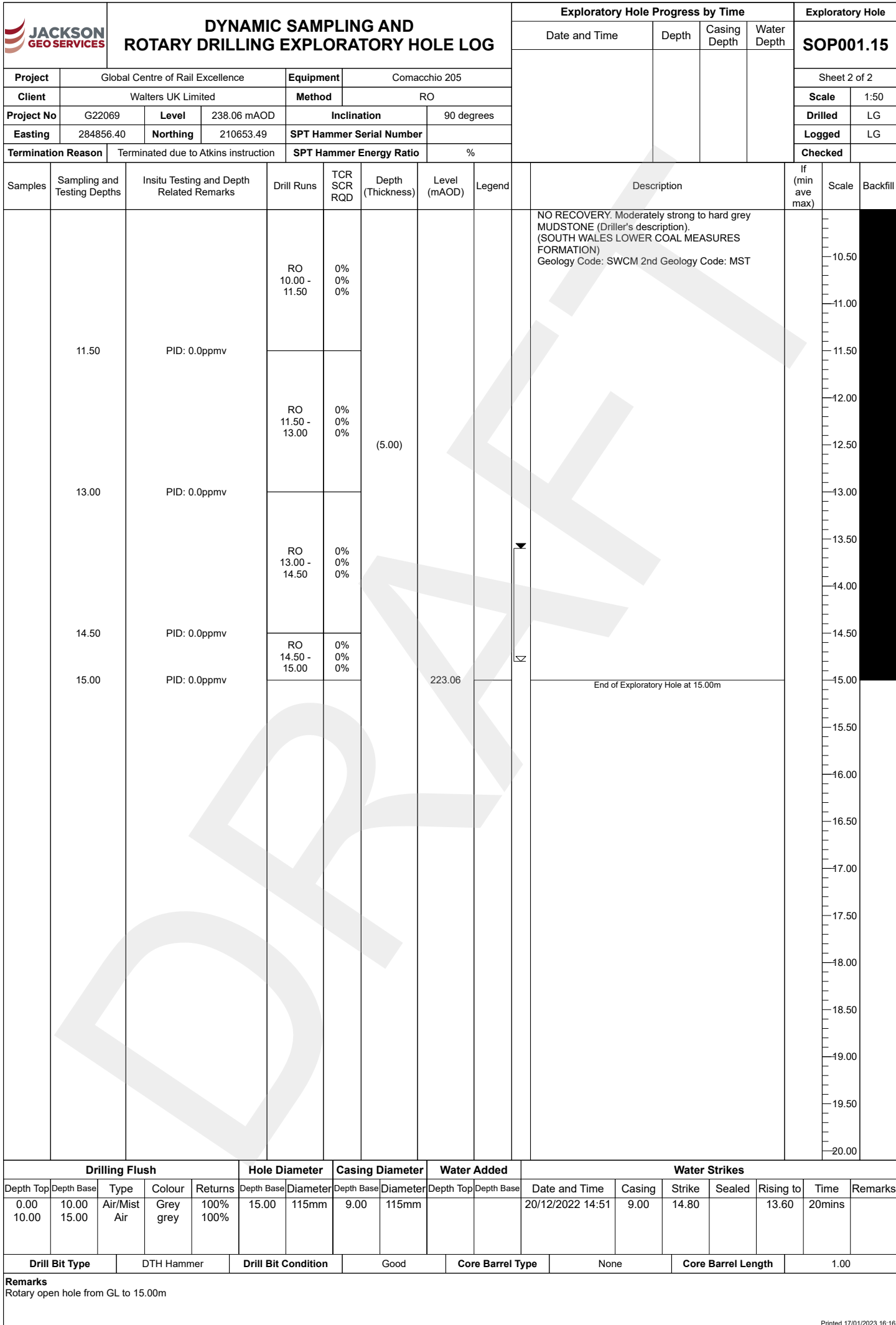


JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.13				
Project		Global Centre of Rail Excellence				Equipment		Comacchio 205				Sheet 2 of 2					
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					
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)			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				
													12.50				
	14.50	PID: 0.0ppmv				RO 13.00 - 14.50	0% 0% 0%						13.00				
													13.50				
													14.00				
	15.00	PID: 0.0ppmv				RO 14.50 - 15.00	0% 0% 0%		223.08				14.50				
											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
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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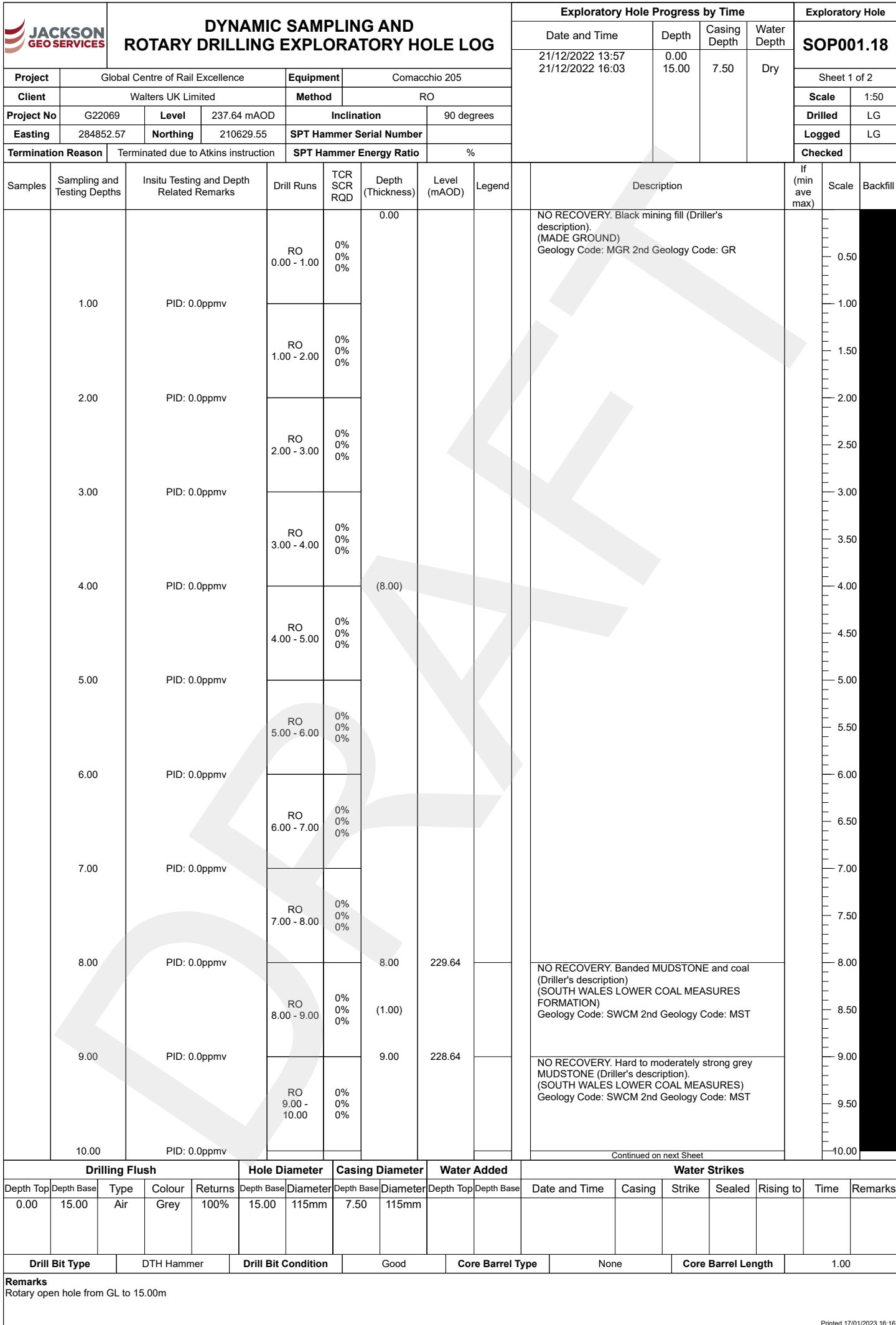
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP001.14				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		238.00 mAOD		Inclination		90 degrees							
Easting		284856.27		Northing		210652.48		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked		LG						
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)			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				
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%							11.50				
													12.00				
												12.50					
	14.50	PID: 0.0ppmv			RO 13.00 - 14.50	0% 0% 0%						13.00					
												13.50					
												14.00					
	15.00	PID: 0.0ppmv			RO 14.50 - 15.00	0% 0% 0%		223.00				14.50					
										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
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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		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							
Easting		284850.87		Northing		210630.17		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked		LG						
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)			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					
	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%		222.51				13.00					
										End of Exploratory Hole at 15.00m		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/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						
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)			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%		222.59			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																	



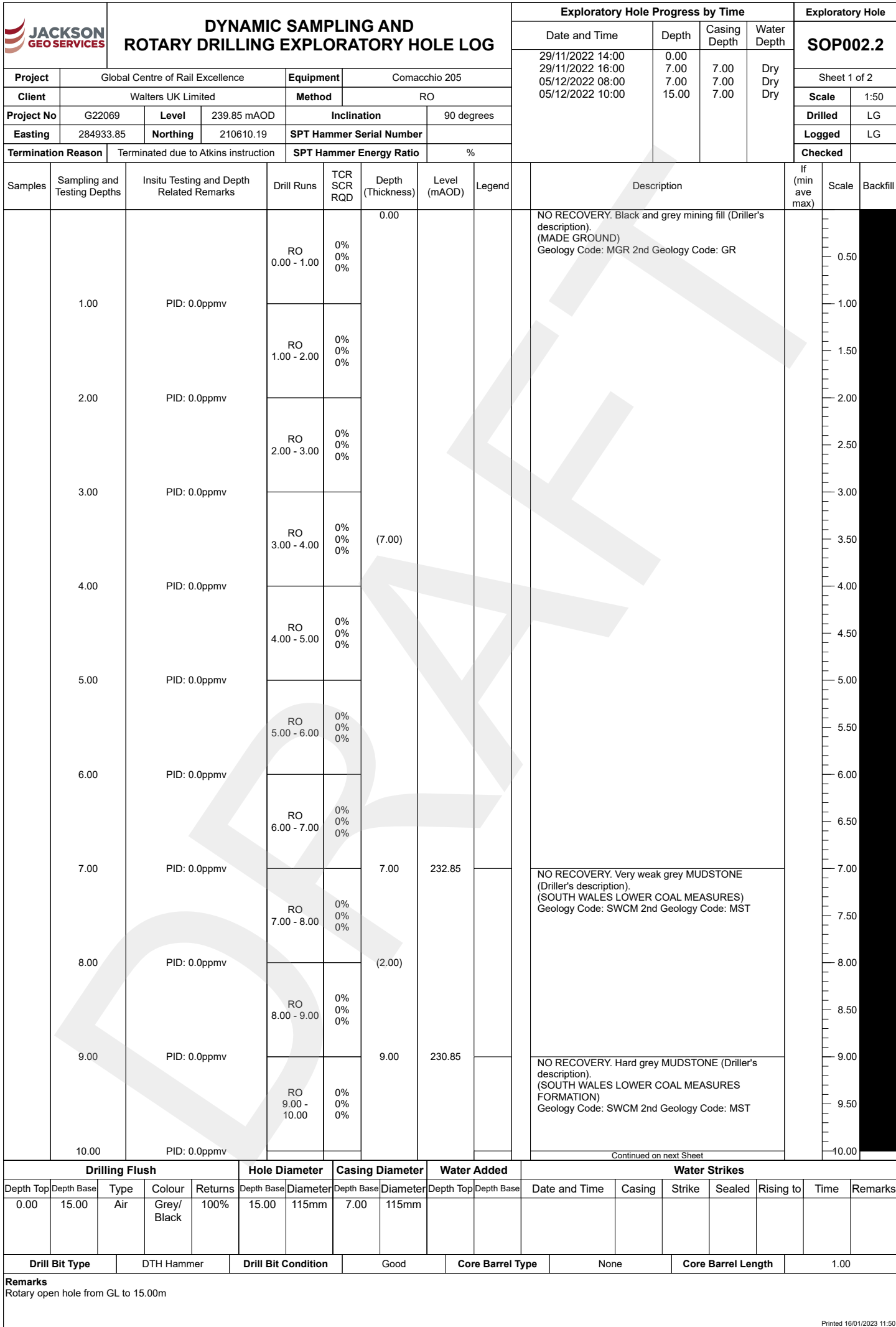


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP001.19	
				Sheet 2 of 2	
				Scale	1:50
				Drilled	LG
				Logged	LG
				Checked	

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		

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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	SOP001.20				
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		237.45 mAOD		Inclination		90 degrees							
Easting		284849.21		Northing		210630.92		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked		LG						
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)			NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMAITON) 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					
								222.45		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	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																	



		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.2				
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		284933.85		Northing	210610.19		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked						
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)			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			
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						12.00					
												12.50					
												13.00					
	15.00	PID: 0.0ppmv			RO 13.00 - 15.00	0% 0% 0%		224.85				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/Black	100%	15.00	115mm	7.00	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	SOP002.3				
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	239.84 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284932.83		Northing	210610.41		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked						
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%		228.34		NO RECOVERY. Hard to moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) 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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													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 16/01/2023 11:50																	



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.4 Sheet 2 of 2 Scale 1:50 Drilled LG Logged LG Checked	

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	SOP002.5					
								06/12/2022 08:00 06/12/2022 10:30		0.00 11.50	7.50	Dry						
								06/12/2022 08:00 06/12/2022 10:30		0.00 11.50	7.50	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		239.80 mAOD		Inclination		90 degrees		Drilled		LG				
Easting		284933.29		Northing		210612.48		SPT Hammer Serial Number				Logged		LG				
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked						
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							
	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%	(7.00)										
	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%				NO RECOVERY. Very weak grey MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
	8.00		PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%	7.00	232.80									
	9.00		PID: 0.0ppmv			RO 8.00 - 9.00	0% 0% 0%	(2.00)										
	10.00		PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	9.00	230.80		NO RECOVERY. Hard to moderately strong MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST							
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	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 16/01/2023 11:50																		

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.5				
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	239.80 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284933.29		Northing	210612.48		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked						
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 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 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		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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JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.6				
								06/12/2022 11:00 06/12/2022 13:30		0.00 11.50	7.50	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	239.86 mAOD	Inclination		90 degrees					Drilled	LG					
Easting	284934.36	Northing	210612.47	SPT Hammer Serial Number							Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%					Checked					
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								
	2.00	PID: 0.0ppmv		RO 1.00 - 2.00	0% 0% 0%												
	3.00	PID: 0.2ppmv		RO 2.00 - 3.00	0% 0% 0%												
	4.00	PID: 0.0ppmv		RO 3.00 - 4.00	0% 0% 0%	(7.50)											
	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%	7.50	232.36		NO RECOVERY. Weak grey weathered MUDSTONE. (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%	(1.50)											
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	9.00	230.86		NO RECOVERY. Moderately strong to hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
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	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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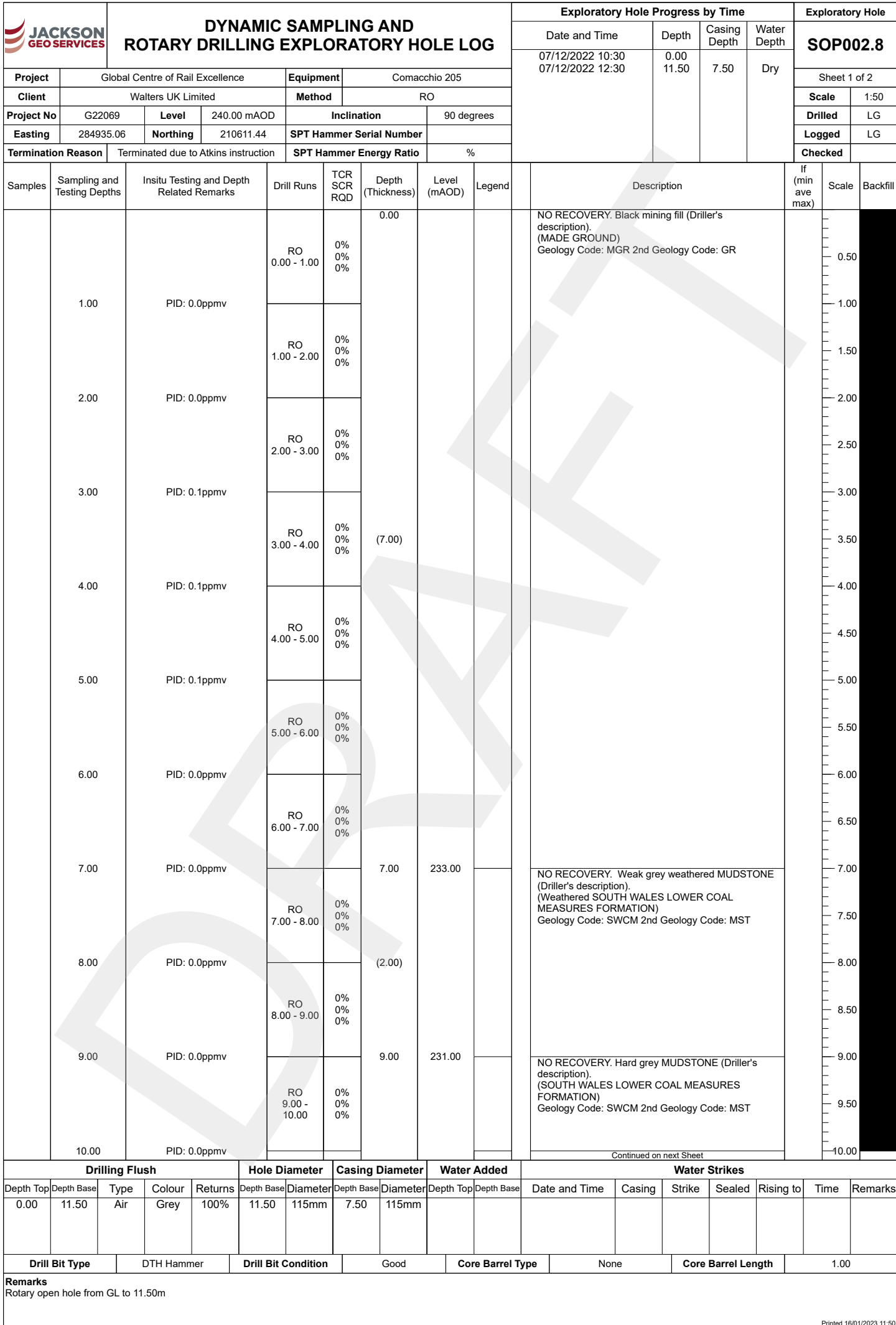
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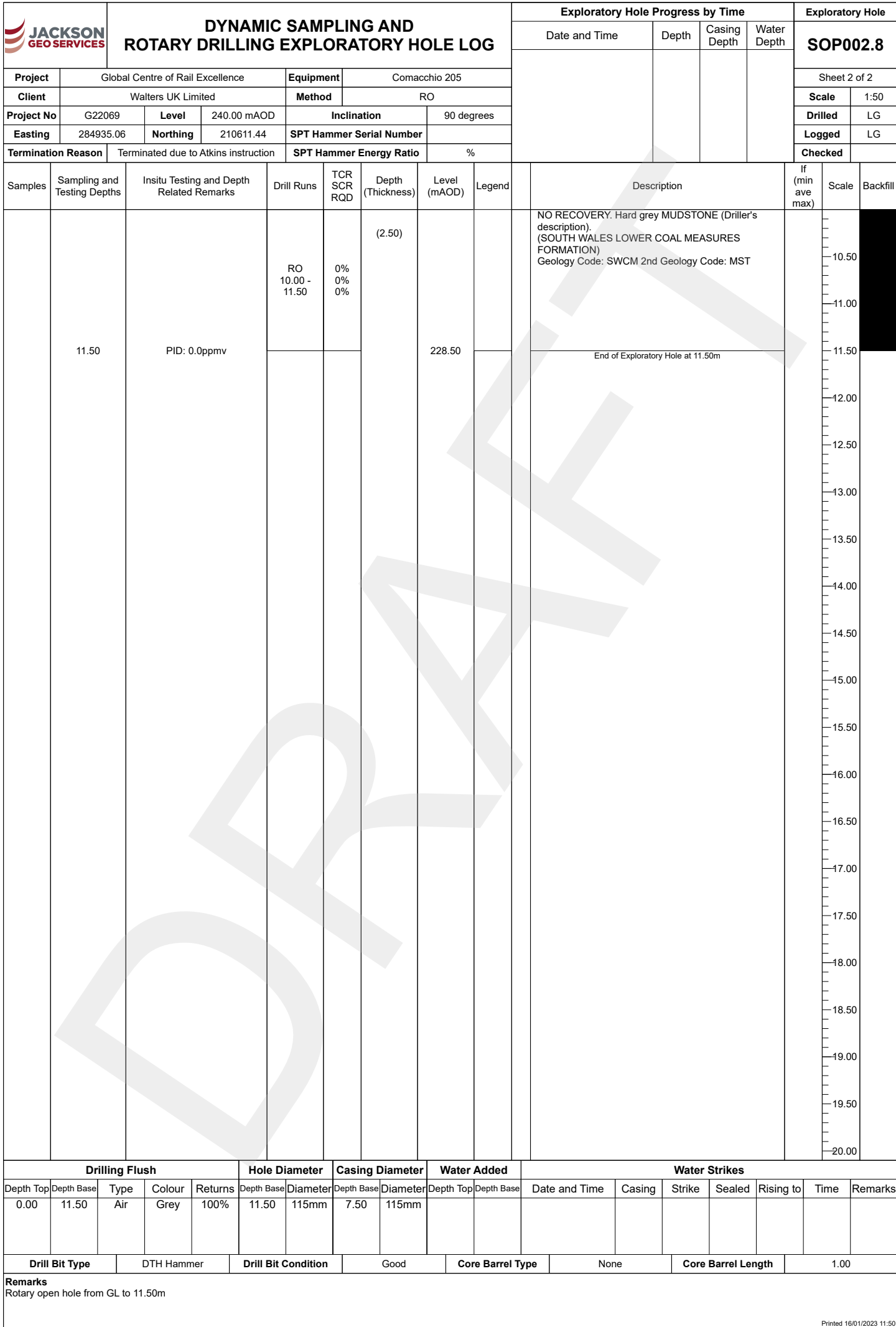


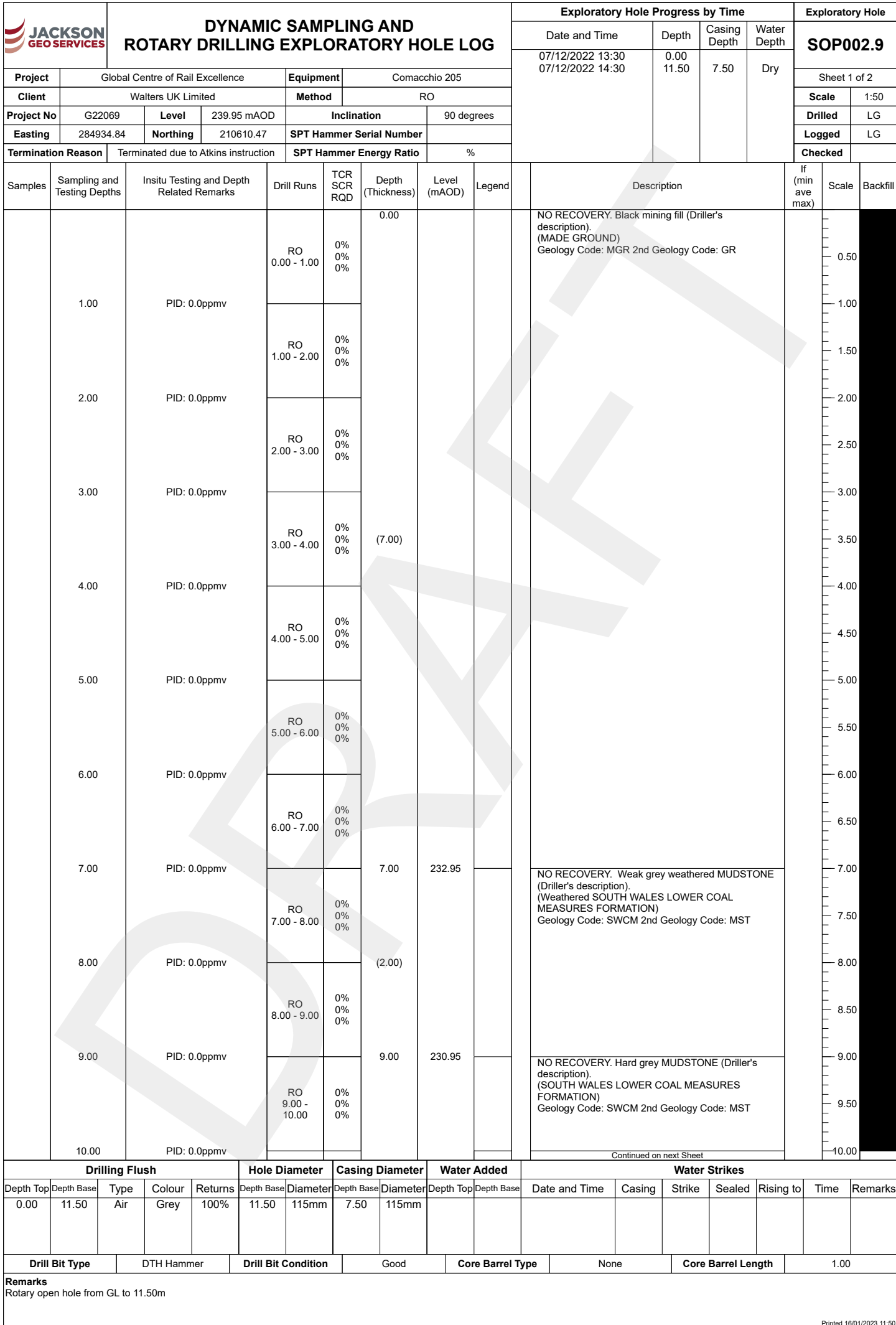
Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP002.7	
06/12/2022 14:30	0.00				
06/12/2022 16:00	7.50	7.50	Dry	Sheet 1 of 2	
07/12/2022 08:00	7.50	7.50	Dry	Scale	1:50
07/12/2022 10:00	11.50	7.50	Dry	Drilled	LG
				Logged	LG
				Checked	

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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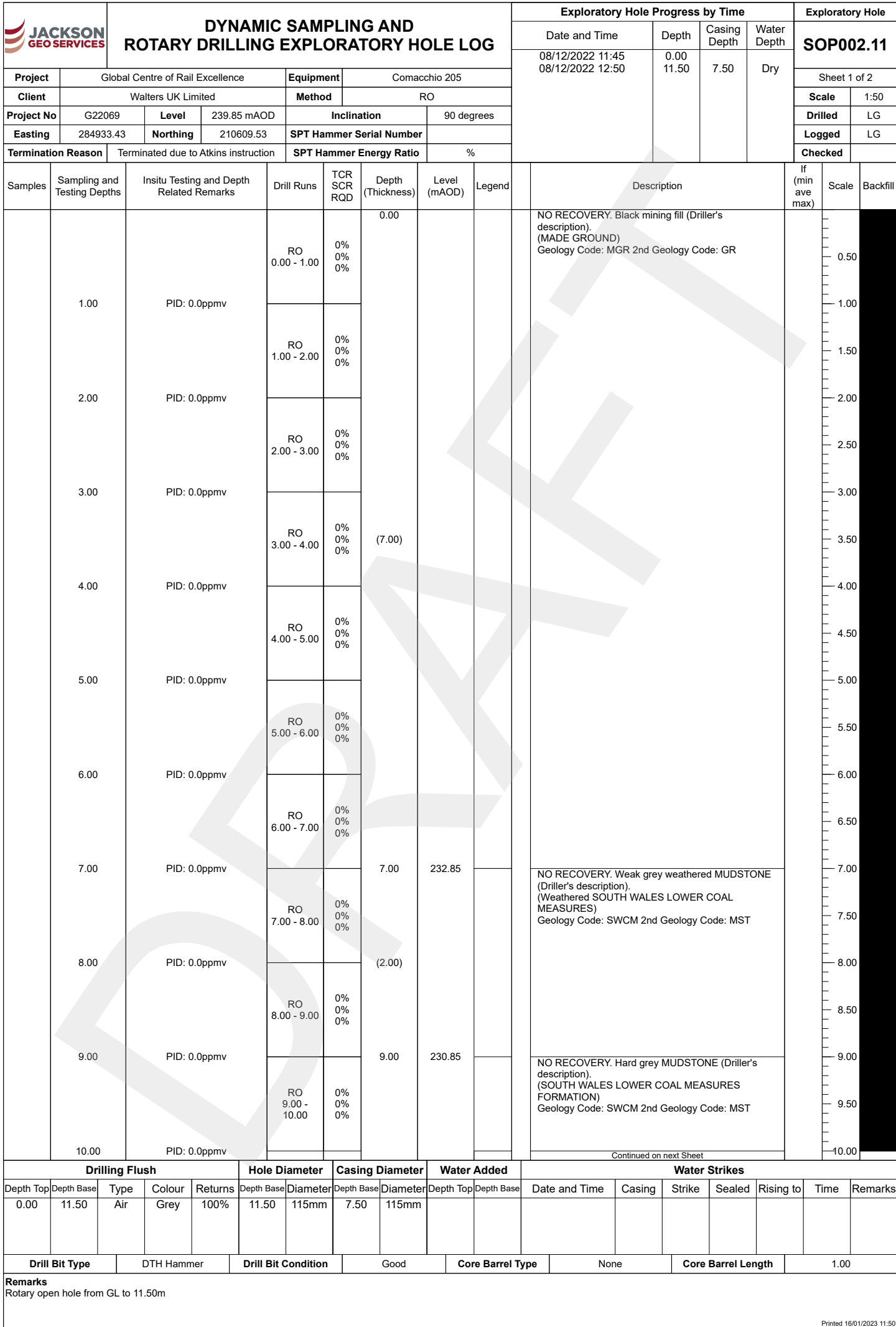




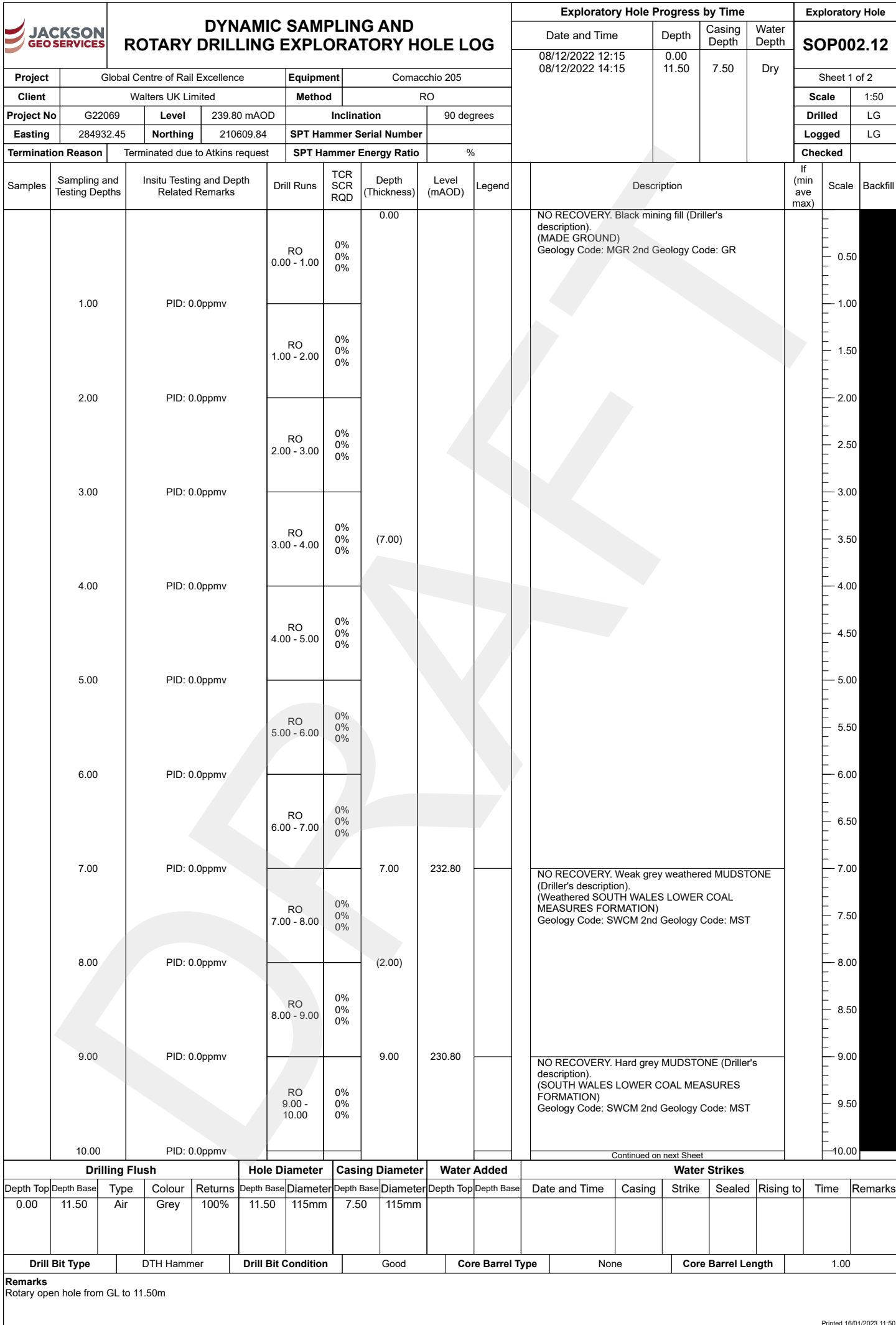
JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.9				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
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						
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			11.00				
													11.50				
													12.00				
													12.50				
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													13.50				
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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																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.10				
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	239.93 mAOD		Inclination		90 degrees		Drilled	LG/LG					
Easting		284934.62		Northing	210609.30		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked						
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)	228.43		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				
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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																	

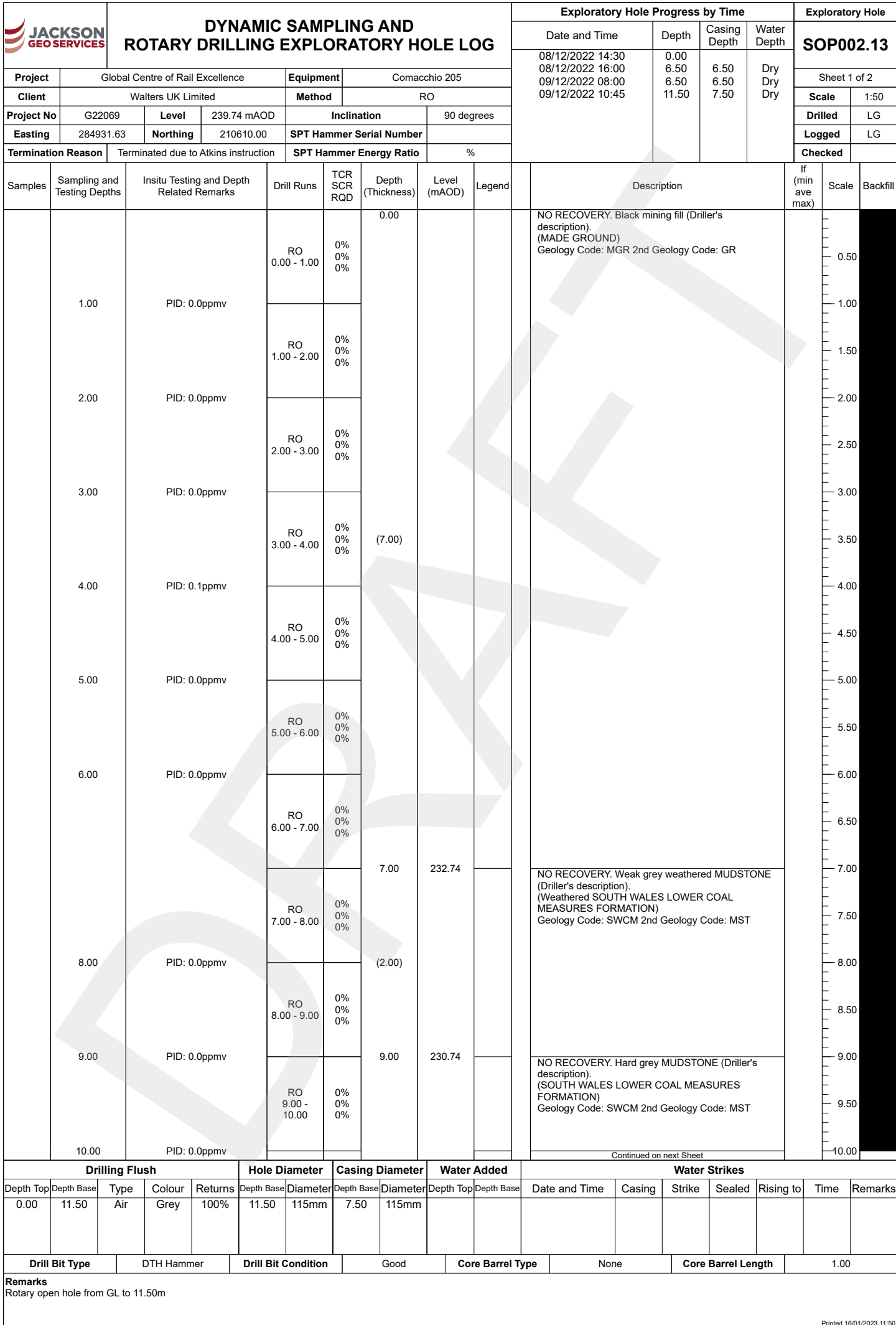
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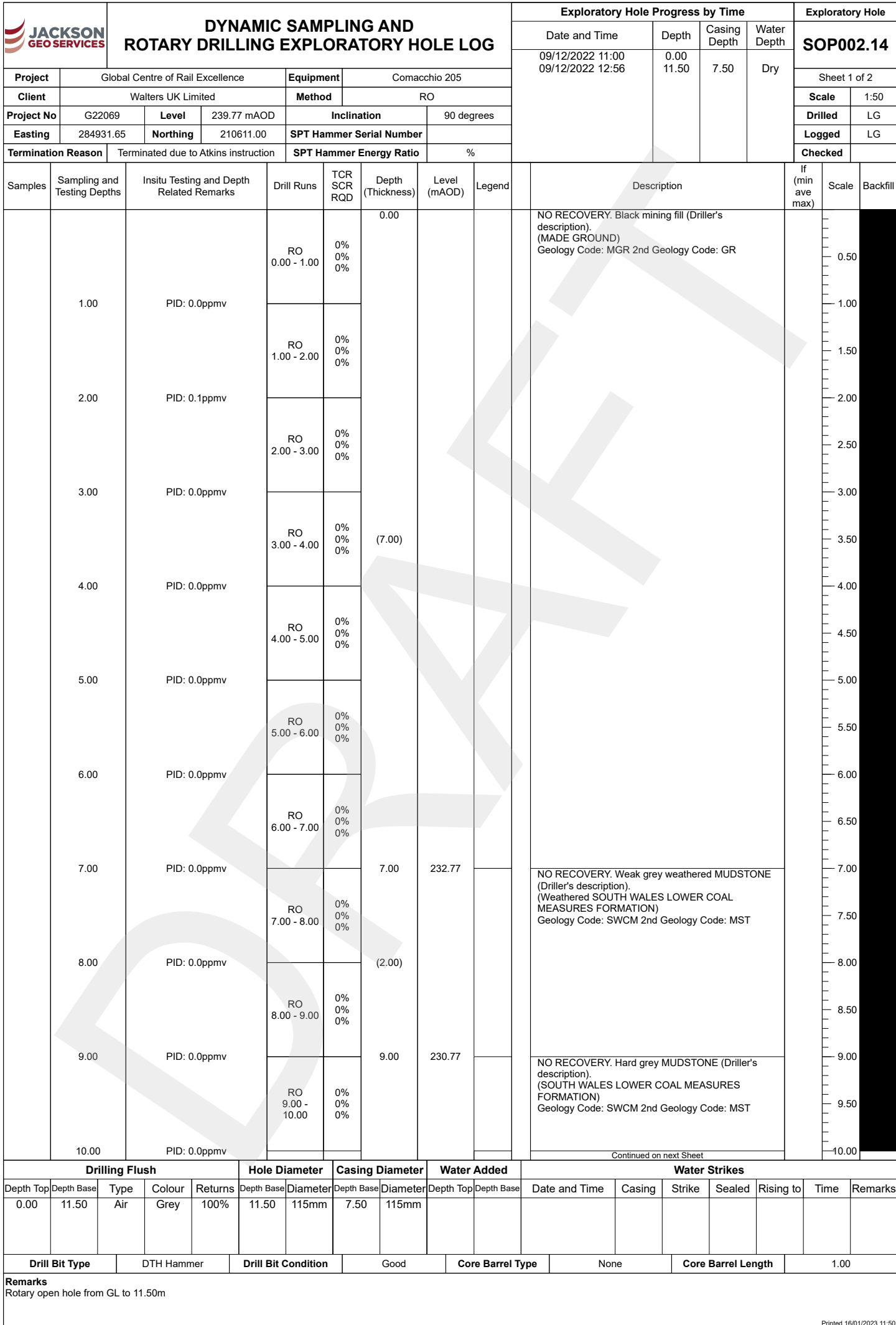
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.11				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.85 mAOD		Inclination		90 degrees							
Easting		284933.43		Northing		210609.53		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked							
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 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		DTH Hammer		Drill Bit Condition		Good		Core Barrel Type		None		Core Barrel Length		1.00			
Remarks Rotary open hole from GL to 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	SOP002.12				
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	239.80 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284932.45		Northing	210609.84		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins request			SPT Hammer Energy Ratio		%				Checked						
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				
													14.50				
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													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																	



		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.13				
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		239.74 mAOD		Inclination		90 degrees							
Easting		284931.63		Northing		210610.00		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked							
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: 0.2ppmv			RO 10.00 - 11.50	0% 0% 0%	(2.50)	228.24		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		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				
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		239.77 mAOD		Inclination		90 degrees							
Easting		284931.65		Northing		210611.00		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked								
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 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		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 16/01/2023 11:50																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.15				
								09/12/2022 13:00 09/12/2022 15:30		0.00 11.50	7.50	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	239.76 mAOD	Inclination		90 degrees					Drilled	LG					
Easting	284931.93	Northing	210612.16	SPT Hammer Serial Number							Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked								
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% 0% 0%	0.00			NO RECOVERY. Black mining fill (Driller's description). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR								
	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%	(7.00)											
	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: 0.1ppmv		RO 6.00 - 7.00	0% 0% 0%				NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	8.00	PID: 0.1ppmv		RO 7.00 - 8.00	0% 0% 0%	7.00	232.76										
	9.00	PID: 0.1ppmv		RO 8.00 - 9.00	0% 0% 0%	(2.00)											
	10.00	PID: 0.1ppmv		RO 9.00 - 10.00	0% 0% 0%	9.00	230.76		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
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	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 16/01/2023 11:50																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.15				
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							
Easting		284931.93		Northing		210612.16		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked	LG						
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)	228.26		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		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 16/01/2023 11:50																	

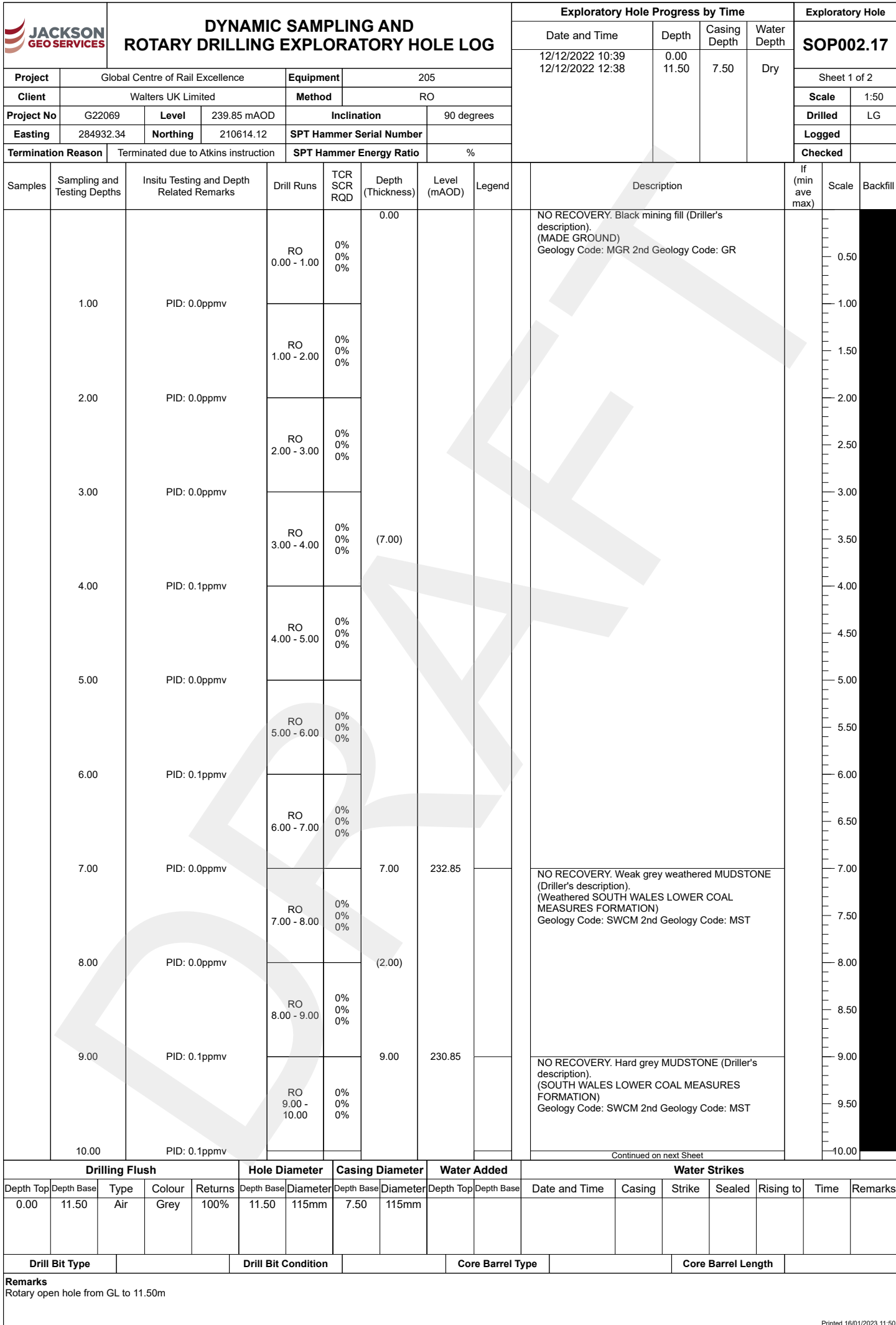
JACKSON GEO SERVICES		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.16				
								12/12/2022 08:16 12/12/2022 10:31		0.00 11.50	7.50	Dry					
Project		Global Centre of Rail Excellence			Equipment		205			Sheet 1 of 2							
Client		Walters UK Limited			Method		RO			Scale		1:50					
Project No		G22069		Level	239.84 mAOD		Inclination		90 degrees		Drilled		LG				
Easting		284932.11		Northing	210613.15		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked						
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: 0.1ppmv			RO 1.00 - 2.00	0% 0% 0%							1.00			
	3.00		PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%							1.50			
	4.00		PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%	(7.00)						2.00			
	5.00		PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%							2.50			
	6.00		PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%							3.00			
	7.00		PID: 0.1ppmv			RO 6.00 - 7.00	0% 0% 0%				NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			3.50			
	8.00		PID: 0.0ppmv			RO 7.00 - 8.00	0% 0% 0%	7.00	232.84					4.00			
	9.00		PID: 0.1ppmv			RO 8.00 - 9.00	0% 0% 0%	(2.00)						4.50			
	10.00		PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%	9.00	230.84		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST			5.00			
														5.50			
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	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 16/01/2023 11:50																	



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth		
				SOP002.16	
				Sheet 2 of 2	
				Scale	1:50
				Drilled	LG
				Logged	
				Checked	

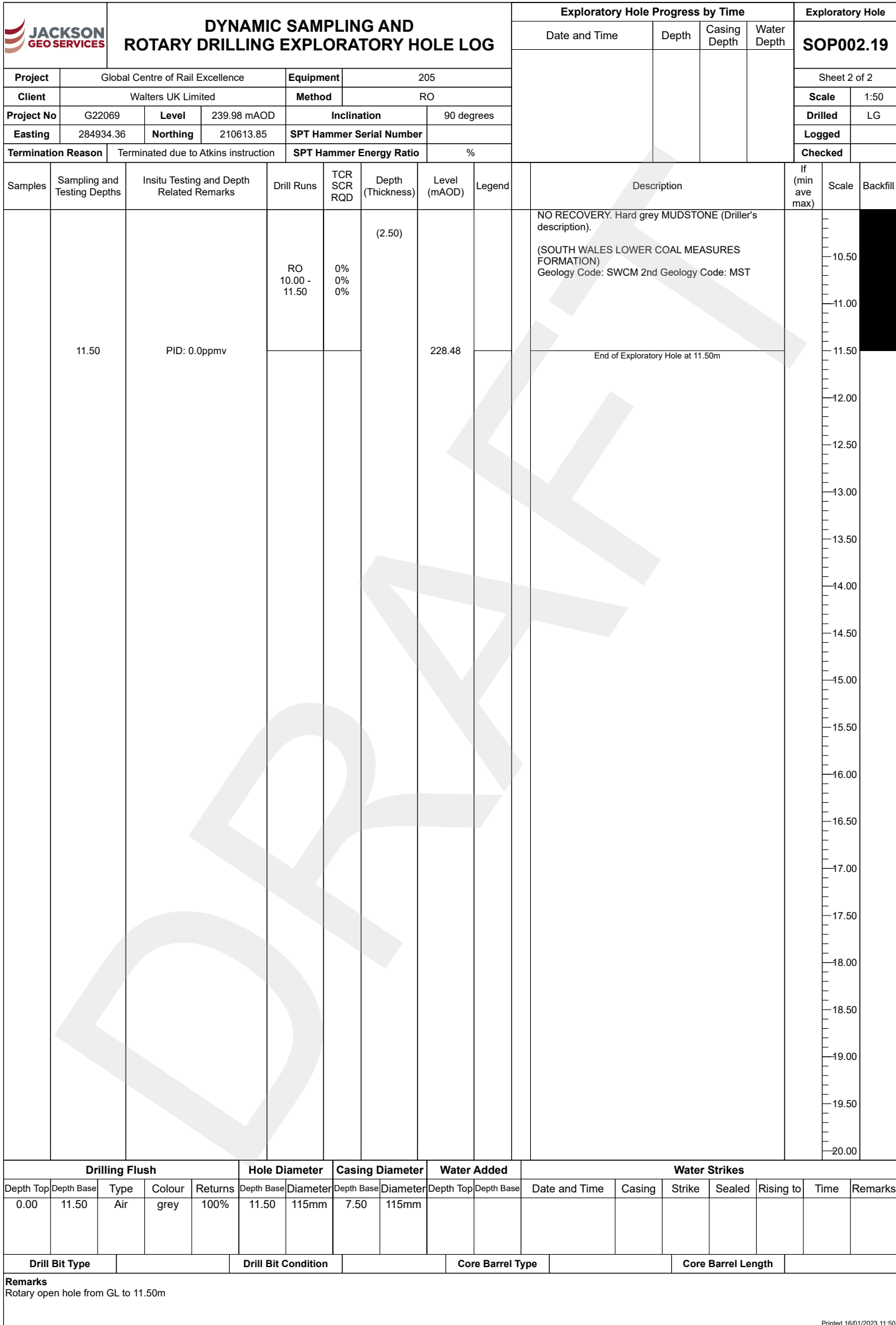
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	Grey	100%	11.50	115mm	7.50	115mm									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

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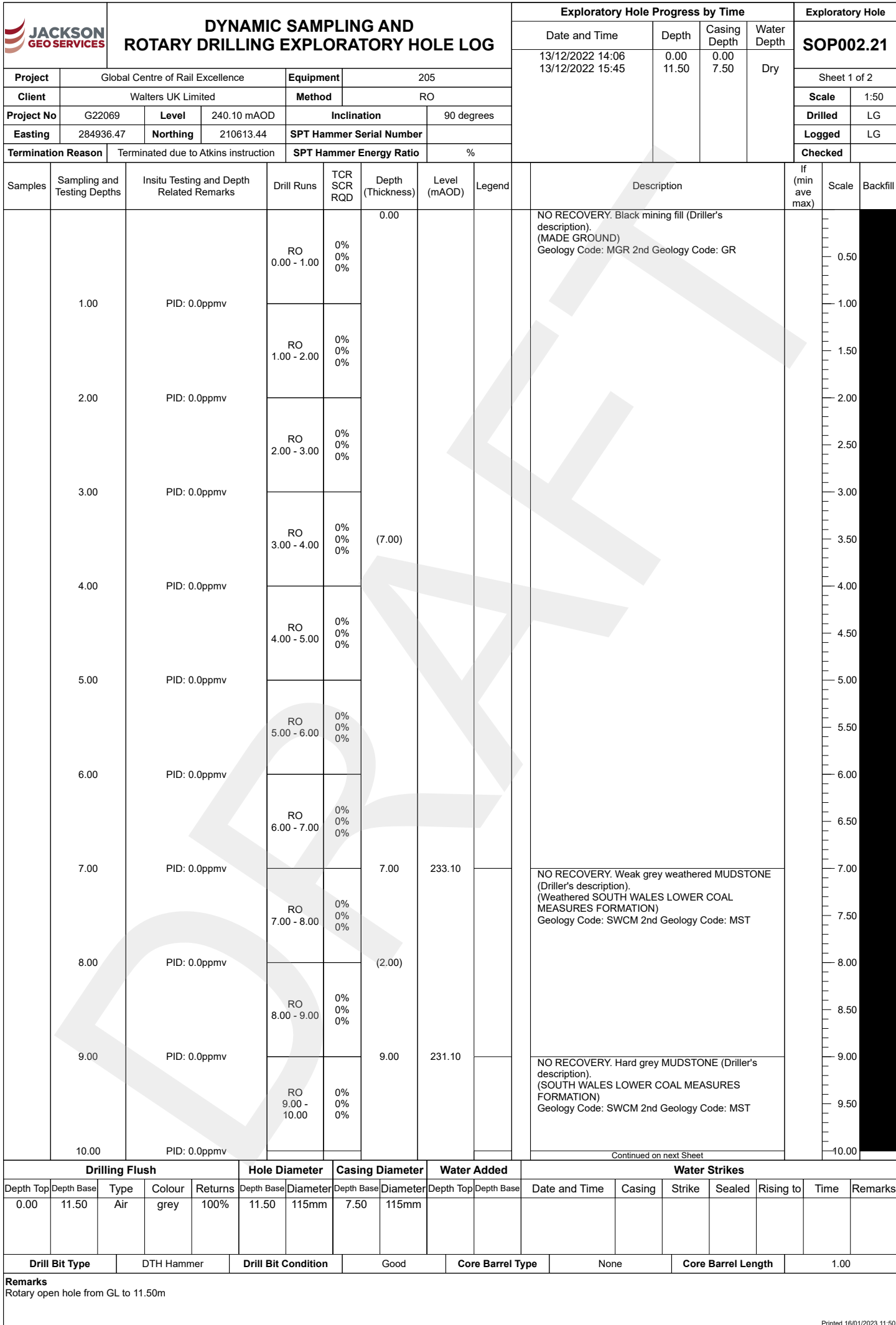


		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.17				
Project		Global Centre of Rail Excellence			Equipment		205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	239.85 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284932.34		Northing	210614.12		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked						
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				
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													14.00				
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													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																	
Printed 16/01/2023 11:50																	

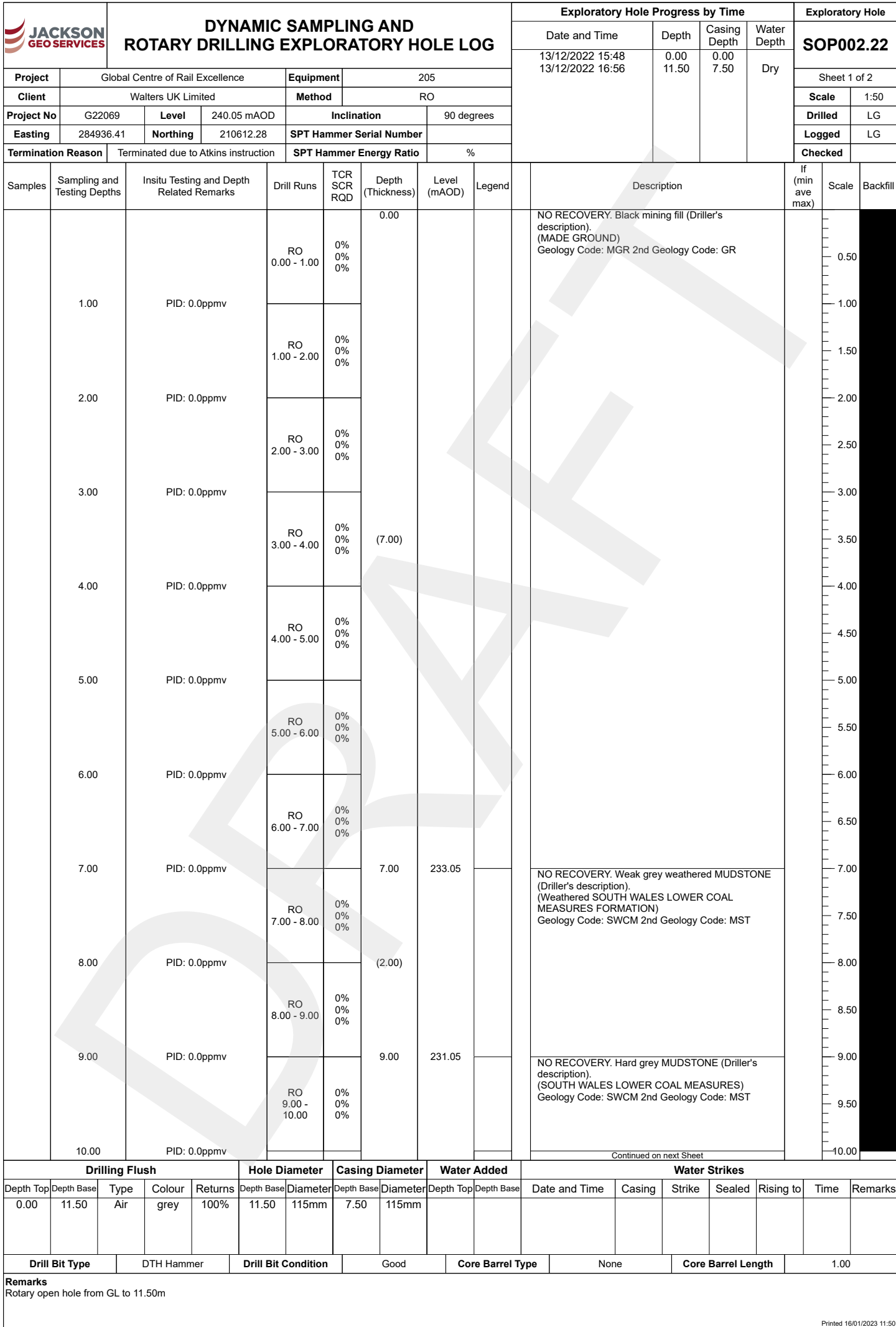
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.18				
Project		Global Centre of Rail Excellence			Equipment		205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	239.89 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284933.48		Northing	210614.08		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked						
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 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											
Drill Bit Type					Drill Bit Condition				Core Barrel Type				Core Barrel Length				
Remarks Rotary open hole from GL to 11.50m																	
Printed 16/01/2023 11:50																	



		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			Equipment		205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		240.05 mAOD		Inclination		90 degrees							
Easting		284935.39		Northing		210613.60		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked							
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 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		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 16/01/2023 11:50																	



		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						
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					
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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																			



		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.22				
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	240.05 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284936.41		Northing	210612.28		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%				Checked						
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) Geology Code: SWCM 2nd Geology Code: MST			10.50				
										End of Exploratory Hole at 11.50m			11.00				
													11.50				
													12.00				
													12.50				
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													14.00				
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													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																	

		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							
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 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		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 16/01/2023 11:50																	

Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time		Depth	Casing Depth	Water Depth	SOP002.24 Sheet 1 of 2 <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></td></tr></table>	Scale	1:50	Drilled	LG	Logged	LG	Checked	
Scale	1:50												
Drilled	LG												
Logged	LG												
Checked													
14/12/2022 11:01		0.00	0.00	Dry									
14/12/2022 13:05		11.50	7.50										

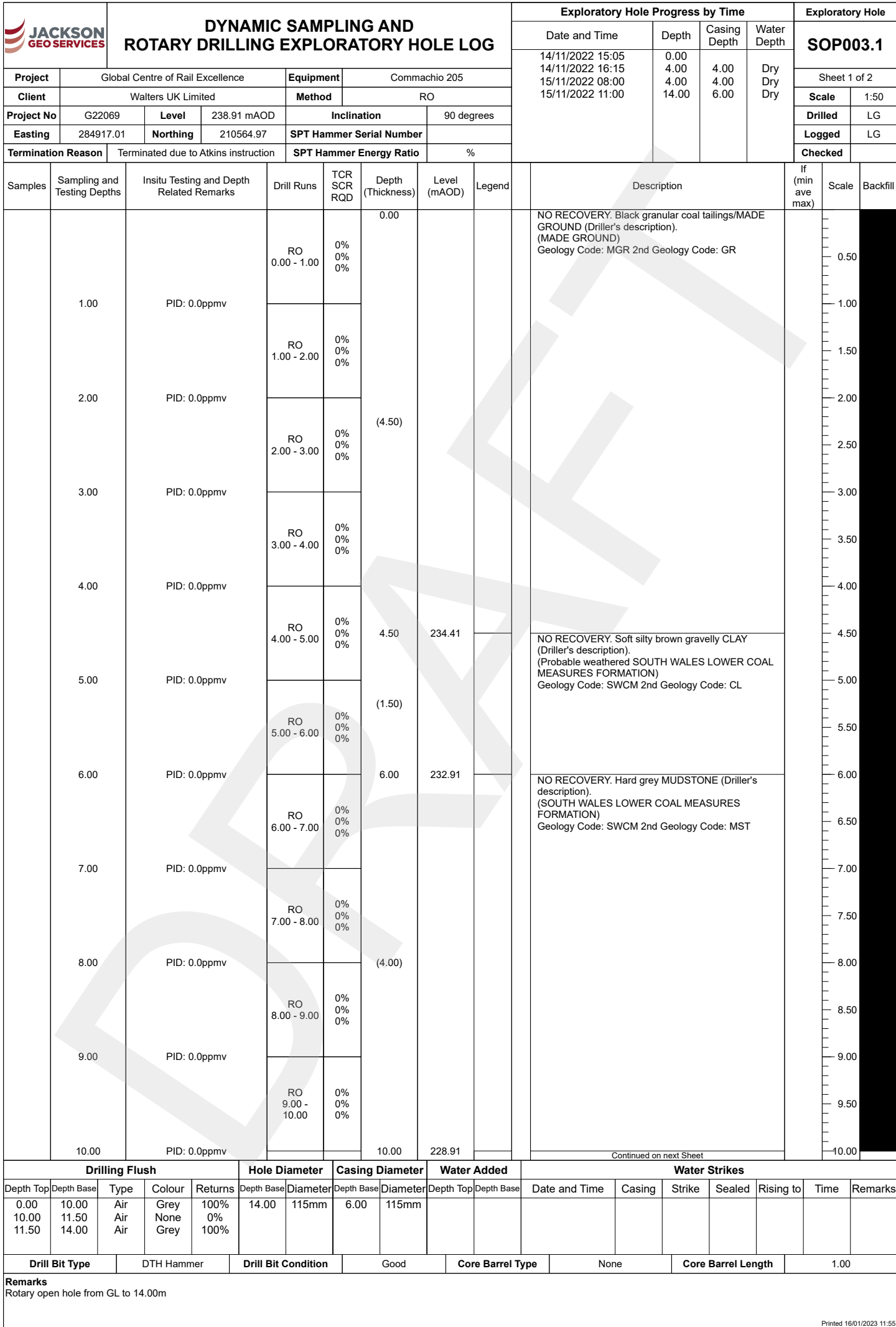
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	11.50	Air	grey	100%	11.50	115mm	7.50	115mm									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

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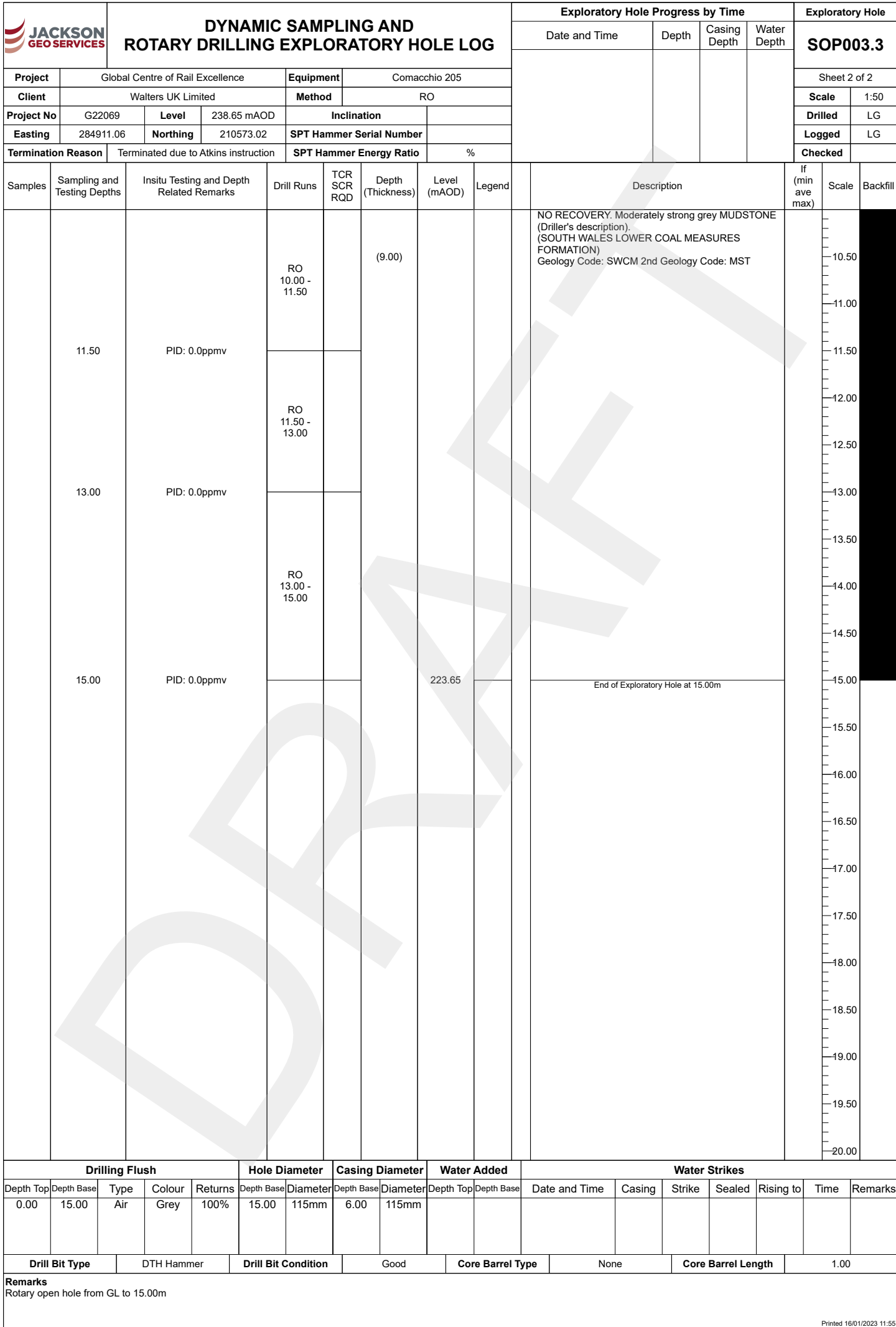
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.24				
Project		Global Centre of Rail Excellence			Equipment		205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale 1:50							
Project No		G22069		Level		239.98 mAOD		Inclination		90 degrees							
Easting		284935.92		Northing		210610.33		SPT Hammer Serial Number		LG							
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked							
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 End of Exploratory Hole at 11.50m		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					
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 16/01/2023 11:50																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.25				
								14/12/2022 14:07 14/12/2022 16:19		0.00 11.50	0.00 7.50	Dry					
Project	Global Centre of Rail Excellence			Equipment	205						Sheet 1 of 2						
Client	Walters UK Limited			Method	RO						Scale	1:50					
Project No	G22069	Level	239.95 mAOD	Inclination	90 degrees						Drilled	LG					
Easting	284935.71	Northing	210609.36	SPT Hammer Serial Number							Logged						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%		Checked								
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								
	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%	(7.00)											
	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%				NO RECOVERY. Weak grey weathered MUDSTONE (Driller's description). (Weathered SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
	8.00	PID: 0.0ppmv		RO 7.00 - 8.00	0% 0% 0%	7.00	232.95										
	9.00	PID: 0.0ppmv		RO 8.00 - 9.00	0% 0% 0%	(2.00)											
	10.00	PID: 0.0ppmv		RO 9.00 - 10.00	0% 0% 0%	9.00	230.95		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST								
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	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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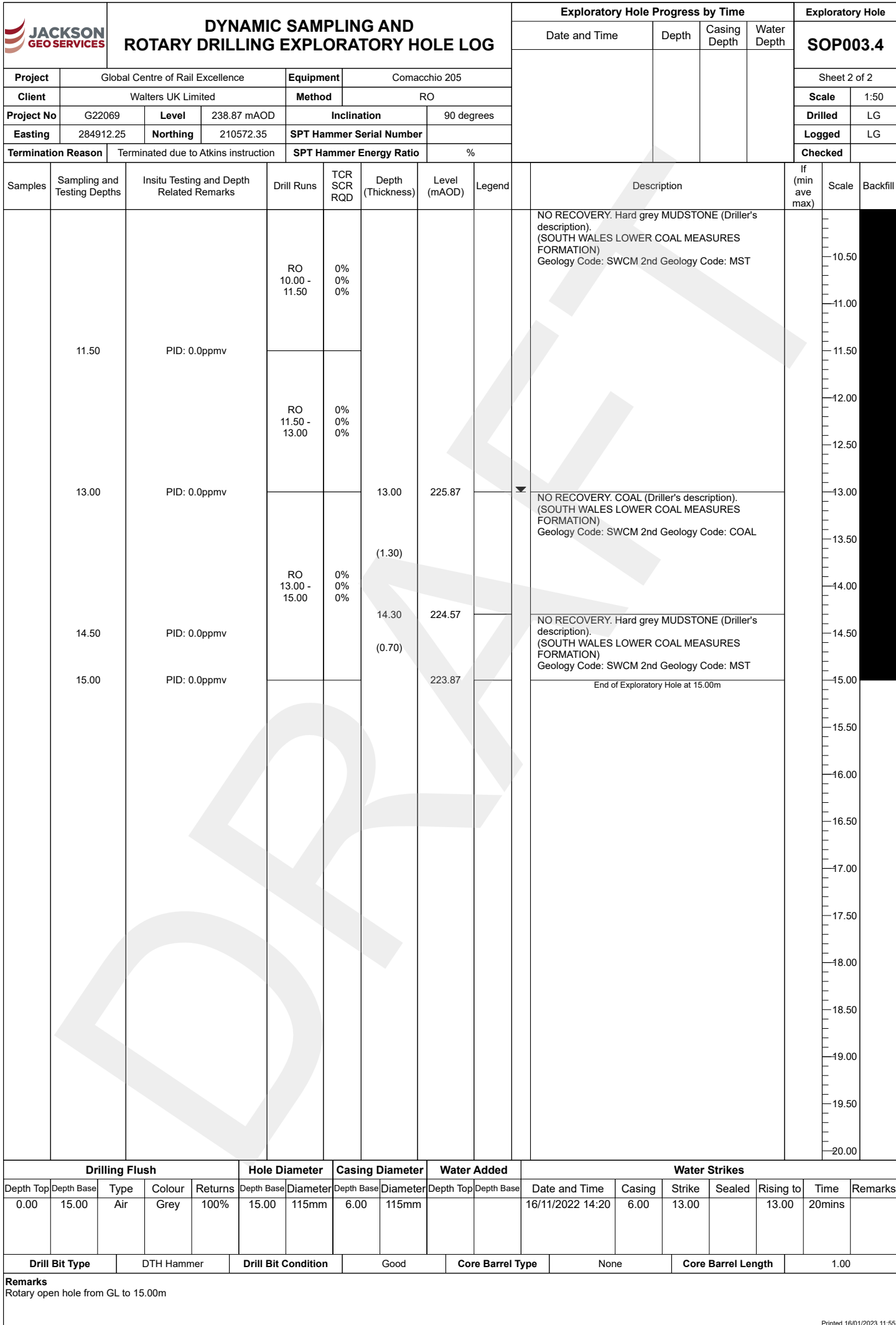
		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP002.25				
Project		Global Centre of Rail Excellence			Equipment		205			Sheet 2 of 2							
Client		Walters UK Limited			Method		RO			Scale	1:50						
Project No		G22069		Level	239.95 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284935.71		Northing	210609.36		SPT Hammer Serial Number				Logged						
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio		%			Checked							
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																	
Printed 16/01/2023 11:50																	



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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	SOP003.4				
Project		Global Centre of Rail Excellence			Equipment		Comacchio 205			16/11/2022 13:30 16/11/2022 16:30		0.00 15.00	6.00	Wet	Sheet 1 of 2		
Client		Walters UK Limited			Method		RO								Scale	1:50	
Project No		G22069		Level	238.87 mAOD		Inclination		90 degrees						Drilled	LG	
Easting		284912.25		Northing	210572.35		SPT Hammer Serial Number								Logged	LG	
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%						Checked		
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 MADE GROUND (coal and mudstone (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)								1.00		
	3.00	PID: 0.0ppmv			RO 2.00 - 3.00	0% 0% 0%									1.50		
	4.00	PID: 0.0ppmv			RO 3.00 - 4.00	0% 0% 0%	3.00	235.87		NO RECOVERY. Soft light brown orange silty CLAY and gravels (Driller's description). (Probable weather SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: CL					2.00		
	5.00	PID: 0.0ppmv			RO 4.00 - 5.00	0% 0% 0%	(2.00)								2.50		
	6.00	PID: 0.0ppmv			RO 5.00 - 6.00	0% 0% 0%	5.00	233.87		NO RECOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST					3.00		
	7.00	PID: 0.0ppmv			RO 6.00 - 7.00	0% 0% 0%									3.50		
	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%	(8.00)								4.50		
	10.00	PID: 0.0ppmv			RO 9.00 - 10.00	0% 0% 0%									5.00		
										Continued on next Sheet					5.50		
															6.00		
															6.50		
															7.00		
															7.50		
															8.00		
															8.50		
															9.00		
															9.50		
															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	6.00	115mm			16/11/2022 14:20	6.00	13.00		13.00	20mins	
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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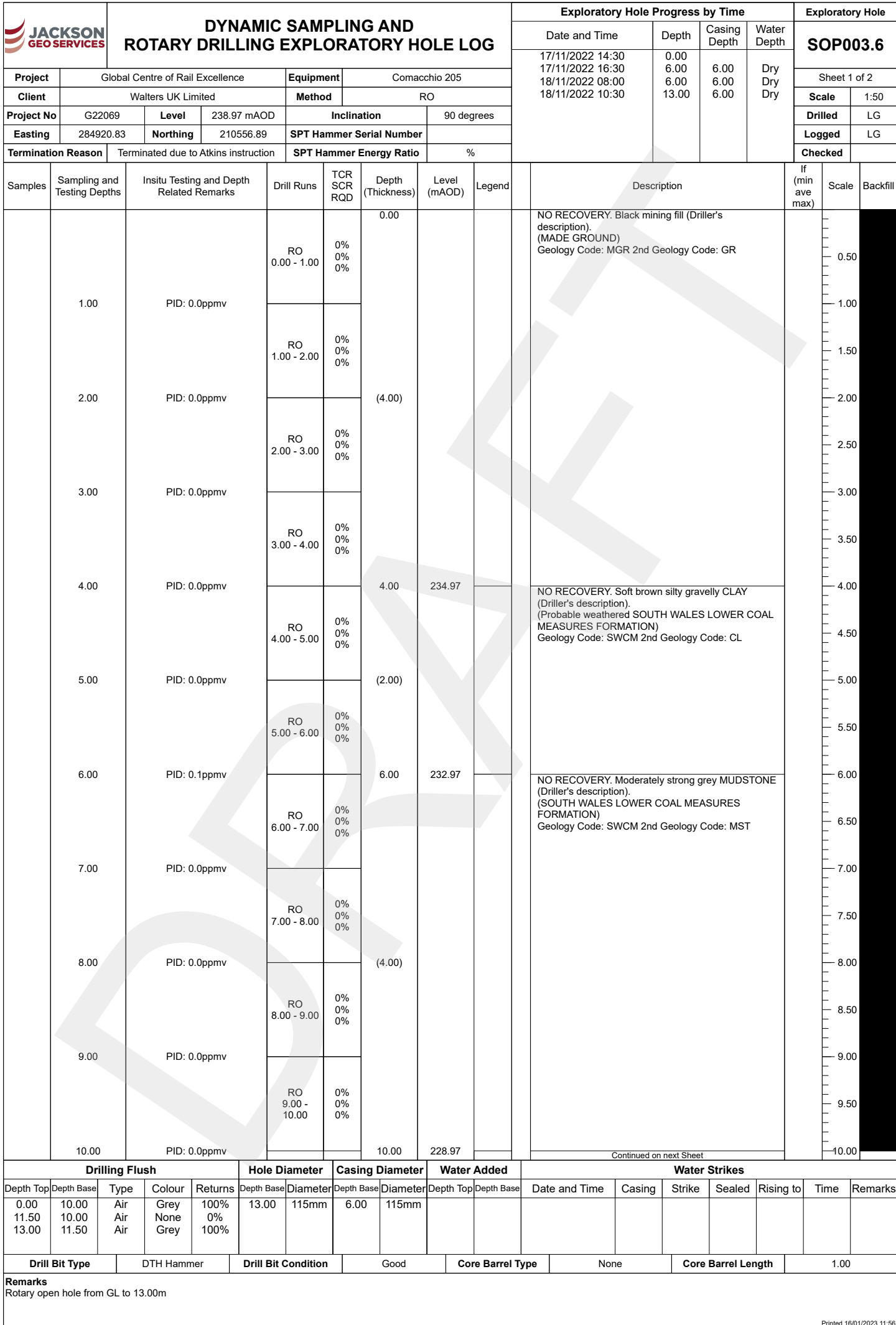


Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time		Depth	Casing Depth	Water Depth	SOP003.5 Sheet 1 of 2 <table><tr><td>Scale</td><td>1:50</td></tr><tr><td>Drilled</td><td>LG</td></tr><tr><td>Logged</td><td>LG</td></tr><tr><td>Checked</td><td></td></tr></table>	Scale	1:50	Drilled	LG	Logged	LG	Checked	
Scale	1:50												
Drilled	LG												
Logged	LG												
Checked													
17/11/2022 08:00		0.00											
17/11/2022 12:30		15.00	6.00	Dry									
				</									

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	

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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				
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		238.97 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		LG						
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)	227.47		VOID.		10.50					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%	(1.50)	225.97		NO RECOVERY. Moderately strong to hard 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 13.00m		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%	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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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	SOP003.7				
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		239.01 mAOD		Inclination		90 degrees		Drilled LG					
Easting		284922.28		Northing		210557.77		SPT Hammer Serial Number				Logged LG					
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked					
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		
						RO 10.00 - 11.50	0% 0% 0%	(9.00)			NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM			10.50			
						RO 11.50 - 13.00	0% 0% 0%							11.00			
						RO 13.00 - 15.00	0% 0% 0%							11.50			
														12.00			
														12.50			
														13.00			
														13.50			
														14.00			
														14.50			
									224.01		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
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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Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks	Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend
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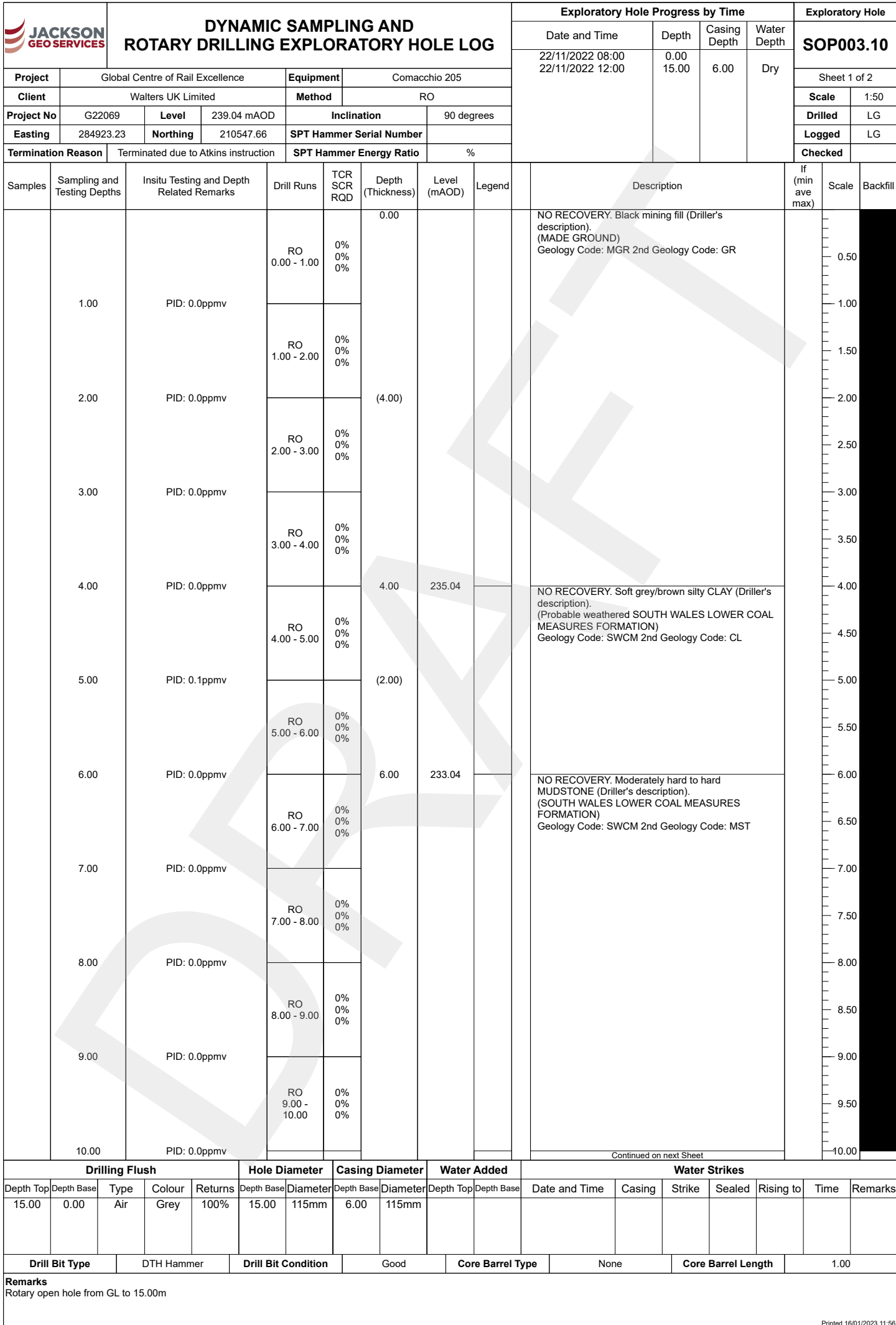
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	10.60	Air	Grey	100%	13.00	115mm	6.00	115mm									
10.60	12.20	Air	None	0%													
12.20	13.00	Air	Grey	100%													

Remarks	Rotary open hole from GL to 13.00m
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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	SOP003.8				
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		239.24 mAOD		Inclination		90 degrees		Drilled	LG				
Easting		284926.01		Northing		210550.18		SPT Hammer Serial Number				Logged	LG				
Termination Reason		Terminated due to Atkins instruction				SPT Hammer Energy Ratio		%				Checked					
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			
						RO 10.00 - 11.50	0% 0% 0%	10.60 (1.60)	228.64		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST VOID.		10.50				
						RO 11.50 - 13.00	0% 0% 0%	12.20 (0.80)	227.04		NO RECOVERY. Moderately strong grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST		11.00				
									226.24		End of Exploratory Hole at 13.00m		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%	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		
Remarks Rotary open hole from GL to 13.00m																	

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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	SOP003.9				
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	239.14 mAOD		Inclination		90 degrees		Drilled	LG					
Easting		284924.48		Northing	210548.59		SPT Hammer Serial Number				Logged	LG					
Termination Reason		Terminated due to Atkins instruction			SPT Hammer Energy Ratio				%		Checked						
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)				11.00						
											11.50						
											12.00						
	15.00	PID: 0.0ppmv			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		12.50					
											13.00						
											13.50						
											14.00						
					RO 13.00 - 15.00	0% 0% 0%	(2.80)	224.14		End of Exploratory Hole at 15.00m		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																	



JACKSON GEO SERVICES		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		Comacchio 205			Sheet 2 of 2							
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						
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					
	13.00	PID: 0.0ppmv			RO 11.50 - 13.00	0% 0% 0%						11.50					
												12.00					
	14.50	PID: 0.0ppmv										12.50					
	15.00	PID: 0.0ppmv			RO 13.00 - 15.00	0% 0% 0%		224.04				13.00					
												13.50					
												14.00					
												14.50					
										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																	

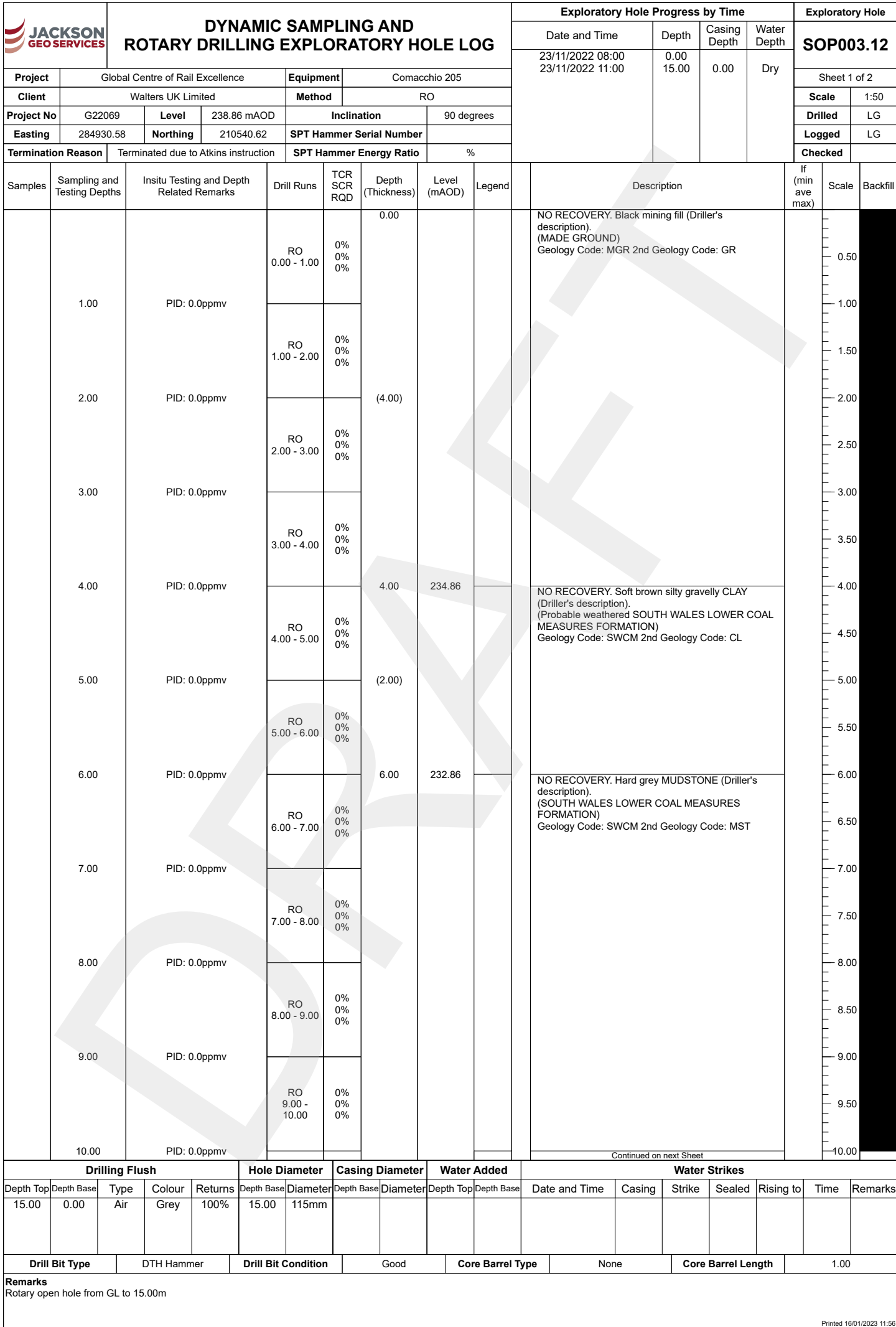
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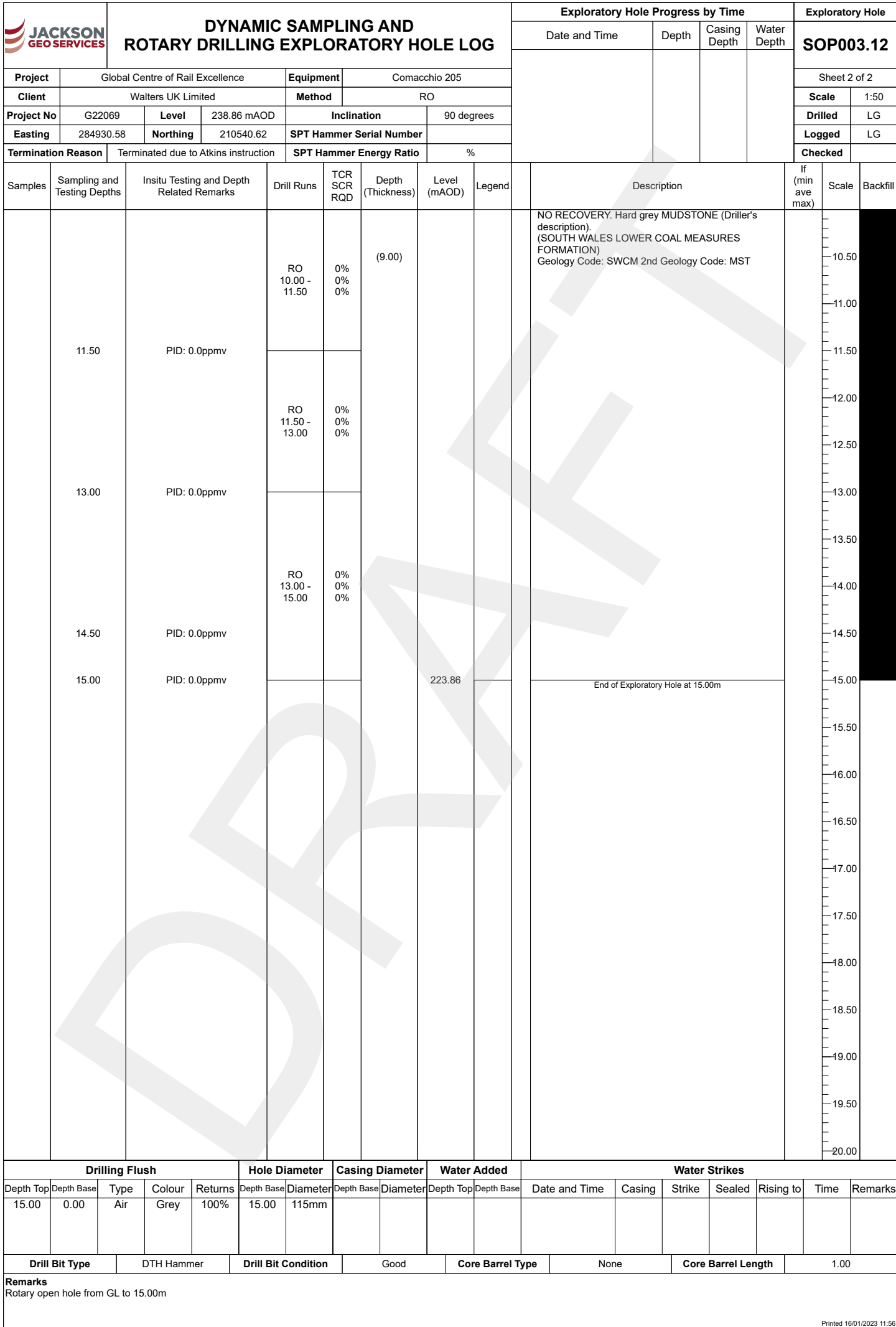


Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	SOP003.11 Sheet 2 of 2 Scale 1:50 Drilled LG Logged LG Checked	

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		

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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	SOP003.13				
								23/11/2022 11:30 23/11/2022 15:30		0.00 15.00	0.00	Dry					
Project	Global Centre of Rail Excellence			Equipment	Comacchio 205			Sheet 1 of 2		Scale 1:50		Drilled LG		Logged LG			
Client	Walters UK Limited			Method	RO												
Project No	G22069	Level	238.95 mAOD	Inclination		90 degrees		Checked									
Easting	284931.52	Northing	210541.54	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				
	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								
	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		234.95									
	5.00	PID: 0.0ppmv		RO 4.00 - 5.00	0% 0% 0%		(2.00)			NO RECOVERY. Soft brown silty 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%			6.00	232.95								
	7.00	PID: 0.0ppmv		RO 6.00 - 7.00	0% 0% 0%	(4.70)					NO RCOVERY. Hard grey MUDSTONE (Driller's description). (SOUTH WALES LOWER COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: MST						
	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	10.70	Air	Grey	100%	15.00	115mm											
15.00	12.00	Air	Grey	100%													
10.70	12.00	Air	None	0%													
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	SOP003.15	
24/11/2022 13:30	0.00				
24/11/2022 16:00	17.00	6.00	Dry	Sheet 1 of 3	
25/11/2022 08:00	17.00	6.00	Dry	Scale	1:50
25/11/2022 12:30	25.00	6.00	Dry	Drilled	LG
				Logged	LG
				Checked	

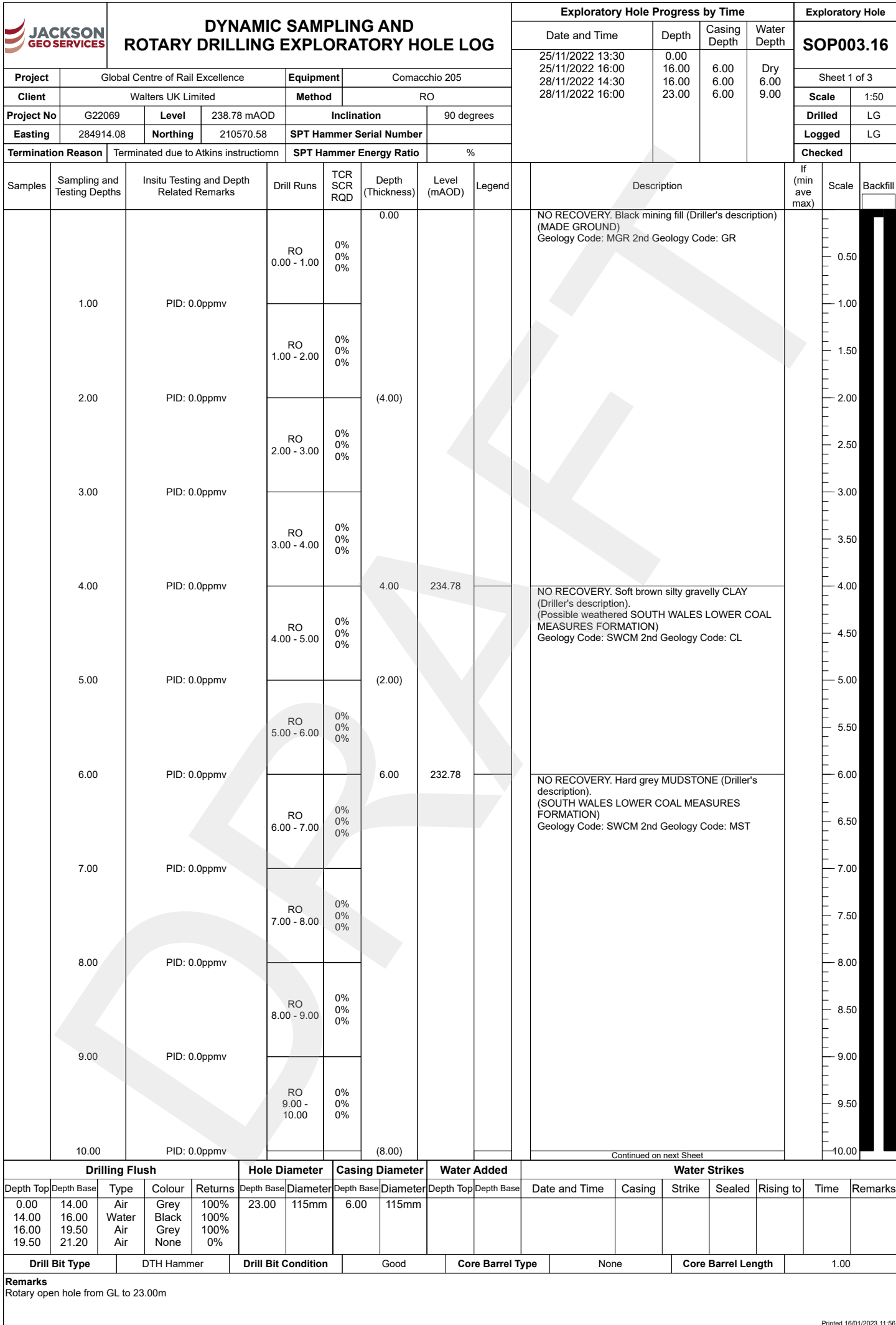
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
25.00	0.00	Air	Black/ Grey	100%	25.00	115mm	6.00	115mm		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

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Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks	Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend
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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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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	

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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