

# ROTARY BOREHOLE LOG



Telephone: 01452 739165, Fax: 01452 739220, Email: info@ccground.co.uk

Project Name: Penrhos 132 kV Substation		Project No: <b>C7957</b>		Co-ords: E 226860 N 380708		Hole Type DS+RC	
Location: Anglesey				Level: 8.03mAOD		Scale 1 : 50.00	
Client: WSP UK LTD				Dates: Start: 24/04/2023 End: 25/04/2023		Logged By SPM	

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAD)	Legend
		No/Type	Depth (m)	Result							
1		B	0.20 - 0.40				MADE GROUND: Grey sub-angular fine to coarse GRAVEL of igneous material.	0.20	7.83		
		D	0.20					(0.40)			
1		B	0.50 - 0.70				MADE GROUND: Grey very sandy silty angular to sub-angular fine to coarse GRAVEL of igneous material and concrete.	0.60	7.43		
		D	0.50								
1		B	1.00 - 1.20				Firm brown mottled grey sandy CLAY.	(0.90)			
		D	1.00								
2		SPT	1.50 - 1.95	S 24			Bluish grey gravelly SILT with low cobble content. Gravel is angular to sub-angular fine to medium lithorelicts of schist. Cobbles are sub-angular of schist.	1.50	6.53		
		D	2.00								
3		SPT	2.50 - 2.95	S 17				(2.00)			
		D	3.00								
4		B	3.50 - 4.75	S*58		83%	Very dense slightly sandy silty angular to sub-angular fine to coarse GRAVEL lithorelicts of schist.	3.50	4.53		
		C	3.50 - 4.40					0%			
4		SPT	3.50 - 3.91			0%	4.00-4.40m: Non-intact. Recovered as angular to sub-angular fine to coarse gravel.	(0.50)	4.03		
		C	4.40 - 5.40	C*500				100%			
5		SPT C	4.40 - 4.55			68%	Moderately weak foliated greenish grey micaceous crystalline SCHIST. Discontinuities are sub-horizontal to sub-vertical (10-70°) very closely to closely spaced stepped rough with orangish brown staining and occasionally infilled with orangish brown slightly gravelly silt.				
		CS	4.74 - 4.98					19%			
6		CS	5.31 - 5.40	C*375		100%	4.68m: Discontinuities are sub-horizontal (30°) clean.		(4.40)		
		C	5.40 - 6.90					48%			
6		SPT C	5.40 - 5.55			9%	4.80m: Discontinuities are sub-horizontal (10°) infilled.				
		C	5.40 - 6.90	C*375			100%				
7		CS	6.35 - 6.50				4.98m: Discontinuities are sub-horizontal (30°) clean.				
		C	6.90 - 8.40	C*375			99%				
7		SPT C	6.90 - 6.99			87%	5.06m: Discontinuities are sub-horizontal (10°) clean.				
		C	6.90 - 6.99	C*375			22%				
8							5.12m: Discontinuities are sub-horizontal (10°) clean.				
8							5.14m: Insipient discontinuity.				
8							5.15m: Discontinuities are sub-horizontal (10°) planar smooth with orangish brown staining.				
8							5.23m: Discontinuities are sub-horizontal (10°) stepped rough with heavy orangish brown staining.				
8							5.26m: Discontinuities are sub-horizontal (20°) planar smooth with orangish brown staining.				
8							5.40-6.90m: Very closely spaced discontinuities.				
8							5.60m: Tabular inclusion of quartz (50mm).				
8							5.80m: Discontinuities are sub-horizontal (11°) planar smooth with light orangish brown staining.				
8							6.54m: Discontinuities are sub-horizontal (15°) undulating rough with heavy orangish brown staining.				
8							6.72m: Discontinuities are sub-horizontal (35°) planar smooth with orangish brown staining.				

EQUIPMENT: Hand digging tools. Fraste Multi-drill PL(G) track mounted rig.  
 METHOD: Hand dug inspection pit: 0.00-1.50m. Dynamic sampling using a 113mm sample barrel: 1.50-3.50m. Waterflush rotary coring using T6-116 coring barrel: 3.50-8.40m.  
 CASING: PW to 3.50m.  
 GROUNDWATER: Groundwater encountered in run at 2.50m-3.50m, settled at 1.86m following 20 minutes monitoring.  
 INSTALLATION: Bentonite pellet seal: 4.50-8.40m. 50mm ID HDPE slotted pipe with washed gravel response zone: 1.50-4.50m. 50mm ID HDPE plain pipe with wash gravel response zone: 1.40-1.50m. 50mm ID HDPE plain pipe with bentonite pellet seal: 0.50-1.40m. 50mm ID HDPE plain pipe with wash gravel response zone: 0.30-0.50m. Flush 150mm steel cover set in concrete: 0.00-0.30m. Gas valve fitted.  
 REMARKS: 4.40m-8.40m 70% flush returns

Groundwater:			Hole Progress:				
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)	Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
24/04/23	2.50		1.86	24/04/2023 17:00	4.40	3.50	1.79
				25/04/2023 08:00	4.40	3.50	1.76



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Project Name: Penrhos 132 kV Substation		Project No: <b>C7957</b>	Co-ords: E 226860 N 380708	Hole Type DS+RC
Location: Anglesey			Level: 8.03mAOD	Scale 1 : 50.00
Client: WSP UK LTD			Dates: Start: 24/04/2023 End: 25/04/2023	Logged By SPM

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAD)	Legend
		No/Type	Depth (m)	Result							
9					φ			6.82m: Quartz vein. 7.12m: Discontinuities are sub-horizontal (5°) planar smooth with orangish brown staining. 7.20m: Quartz vein (35mm). 7.24m: Discontinuities are sub-horizontal (30°) undulating smooth with orangish brown silty infill. 7.30m: Quartz vein. 7.36m: Discontinuities are sub-horizontal (5°) with silty orangish brown staining. 7.39m: Discontinuities are sub-horizontal (5°) undulating smooth with orangish brown staining. 7.53m: Discontinuities are sub-horizontal (20°) planar smooth. 7.58m: Discontinuities are horizontal with purplish brown silty infill. 7.69m: Discontinuities are horizontal planar smooth and clean. 7.70-7.76m: Incipient discontinuities are sub-horizontal (45°). Incipient fracture. 7.77-7.89m: Multicolour silty angular to sub-angular fine to coarse gravel of schist, quartz and mica. 8.00m: Discontinuities are sub-horizontal (45°) undulating smooth with orangish brown and clean. 8.28m: Discontinuities are sub-horizontal (45°) stepped rough and clean. Borehole completed at 8.40m	8.40	-0.37	
10											
11											
12											
13											
14											
15											
16											
17											

**Groundwater:**

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
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**Hole Progress:**

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
25/04/2023 11:00	8.40	3.50	



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Project Name: Penrhos 132 kV Substation		Project No: <b>C7957</b>	Co-ords: E 226863 N 380662	Hole Type RC
Location: Anglesey		Level: 8.01mAOD		Scale 1 : 50.00
Client: WSP UK LTD		Dates: Start: 26/04/2023 End: 27/04/2023		Logged By SPM

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result							
1		B	0.20 - 0.40				MADE GROUND: Grey silty angular to coarse GRAVEL of igneous material.	0.20	7.81		
		B	0.30 - 0.50			Greenish grey slightly clayey silty sandy angular to sub-angular fine to coarse GRAVEL lithorelicts of schist.					
2		B	1.00 - 1.20				1.40m: Very dense.	(1.60)	6.21		
		B SPT C	1.40 - 1.80 1.40 - 1.73	C*83							
3		C	1.80 - 3.30		100% 65% 18%		Moderately weak to strong foliated fine grained greenish grey crystalline micaceous SCHIST. Discontinuities are sub-horizontal (5-10°) very close to closely spaced planar and undulating smooth with orangish brown staining. 1.80-2.00m: Recovered as angular fine to coarse gravel. 2.00-2.10m: Non-intact. 2.27m: Discontinuities are sub-horizontal (45°) planar smooth with orangish brown staining. Clean. 2.52m: Discontinuities are sub-horizontal (5°) undulating smooth with orangish brown staining. 2.60-2.71m: Discontinuities are sub-horizontal (45°) undulating smooth with orangish brown staining. 2.80-3.00m: 6No 0°-5° Discontinuities with orangish brown staining. Silty. 3.10-3.30m: Non-intact. 3.50-3.66m: Non-intact.	1.80	6.21		
		C	3.30 - 4.80		100% 78% 30%						
4		CS	3.70 - 3.82				4.17m: Discontinuities are sub-horizontal (20°) planar smooth with orangish brown staining. Clean. 4.45m: Discontinuities are sub-horizontal (30°) orangish brown staining. Infilled with silty angular fine to medium gravel. 4.80-5.46m: Non-intact, intersecting sub-horizontal to sub-vertical Discontinuities.	(6.00)	0.21		
		CS	4.21 - 4.44								
5		C	4.80 - 6.30		100% 45% 21%		5.71-5.80m: Discontinuities are sub-horizontal (45°) undulating smooth with orangish brown staining. Silty. 6.33-6.46m: Discontinuities are sub-horizontal (45°) undulating smooth with orangish brown staining. Silty. 6.71m: Discontinuities are sub-horizontal (25°) undulating smooth with orangish brown staining. 6.81-7.06m: Discontinuities are sub-horizontal (45°). Insipient infilled with quartz. 7.13m: Discontinuities are sub-horizontal (25°) planar smooth with orangish brown staining. 7.15-7.21m: Discontinuities are sub-horizontal (60°) with orangish brown staining. 7.35-7.44m: Discontinuities are sub-rounded 90° with	7.80	0.21		
		CS	5.50 - 5.70								
6		C	6.30 - 7.80		100% 69% 54%		7.35-7.44m: Discontinuities are sub-rounded 90° with	7.80	0.21		
		CS	6.72 - 7.13								
7		C	6.30 - 7.80				7.35-7.44m: Discontinuities are sub-rounded 90° with	7.80	0.21		
		CS	7.57 - 7.80								
8											

EQUIPMENT: Hand digging tools. Fraste Multi-drill PL(G) track mounted rig.  
 METHOD: Hand dug inspection pit: 0.00-1.20m. Waterflush rotary coring using T6-116 coring barrel: 1.20-7.80m.  
 CASING: PW to 1.80m.  
 GROUNDWATER: None encountered prior to using water flush.  
 INSTALLATION: Bentonite pellet seal: 5.00-7.80m. 50mm ID HDPE slotted pipe with washed gravel response zone: 2.00-5.00m. 50mm ID HDPE plain pipe with wash gravel response zone: 1.90-2.00m. 50mm ID HDPE plain pipe with bentonite pellet seal: 0.40-1.90m. 50mm ID HDPE plain pipe with wash gravel response zone: 0.25-0.40m. Flush 150mm steel cover set in concrete: 0.00-0.25m. Gas valve fitted.  
 REMARKS: 1.80m-7.80m. Borehole installed 27/04/2023. 80-100% flush returns.

Groundwater:				Hole Progress:			
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)	Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
				26/04/2023 17:45	7.80	1.80	
				27/04/2023 08:00	7.80	1.80	1.24
				27/04/2023 10:00	7.80	1.80	



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Project Name: Penrhos 132 kV Substation	Project No: <b>C7957</b>	Co-ords: E 226863 N 380662	Hole Type RC
Location: Anglesey		Level: 8.01mAOD	Scale 1 : 50.00
Client: WSP UK LTD		Dates: Start: 26/04/2023 End: 27/04/2023	Logged By SPM

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result							
							orangish brown staining. Borehole completed at 7.80m				
9											
10											
11											
12											
13											
14											
15											
16											
17											

**Groundwater:**  
Date      Strike Depth (m)      Casing Depth (m)      Depth After Observation (m)

**Hole Progress:**  
Date      Hole Depth (m)      Casing Depth (m)      Water Depth (m)



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Project Name: Penrhos 132 kV Substation		Project No: <b>C7957</b>	Co-ords: E 226881 N 380678	Hole Type DS+RC
Location: Anglesey		Level: 8.00mAOD		Scale 1 : 50.00
Client: WSP UK LTD		Dates: Start: 25/04/2023 End: 26/04/2023		Logged By SPM

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAD)	Legend
		No/Type	Depth (m)	Result							
1		B	0.00 - 0.30				MADE GROUND: Grey silty angular to sub-angular medium to coarse GRAVEL of igneous material.	0.10	7.90	[Cross-hatched pattern]	
		D	0.20				MADE GROUND: Greyish brown gravelly silty SAND. Gravel is angular to sub-angular of igneous material.	0.40	7.60		
1		B	0.50 - 0.70				Brown slightly clayey silty sandy sub-angular to sub-rounded fine to medium GRAVEL lithorelicts of schist.	(1.15)	6.45	[Circular pattern]	
		D	0.50								
2		B	1.00 - 1.20				Greenish grey gravelly SILT. Gravel is angular to sub-angular fine to medium of schist lithorelicts.	(1.55)	6.45	[Circular pattern]	
		D	1.00								
2		SPT	1.50 - 1.95	S 22			Moderately weak foliated greenish grey micaceous SCHIST. Discontinuities are sub-horizontal very close to closely spaced planar and undulating smooth with occasional orangish brown staining.	2.40	5.60	[Wavy pattern]	
		D	2.00								
3		C	2.40 - 3.40	C*375	100%		2.40-2.50m: recovered as angular to sub-angular fine to coarse gravel.				
		SPT C	2.40 - 2.48		35%	0%					
3		CS	3.10 - 3.25				2.60m: Discontinuities are sub-horizontal (5°) stepped rough and clean.				
		C	3.40 - 4.50		82%	27%					0%
4		C	4.50 - 6.00		100%		2.85m: Discontinuities are sub-horizontal (25°) with orangish brown staining.				
		CS	4.80 - 4.95		37%	16%					
5		C	6.00 - 7.50		73%		3.13m: Discontinuities are sub-horizontal (45°) undulating smooth and clean.				
		CS	6.55 - 6.94		61%	40%					
6		C	6.00 - 7.50				3.25-3.34m: 4No sub-horizontal (45°) discontinuity and 2no 75° discontinuity planar rough with quartz infill.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				3.40-4.50m: Recovered as silty sub-angular to sub-rounded cobbles and gravels.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				4.60m: Discontinuities are sub-horizontal (5°) planar smooth and clean with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				4.70m: Discontinuities are sub-horizontal (5°) planar smooth and clean with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				4.80m: Discontinuities are sub-horizontal (25°) undulating smooth and clean with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				5.10-5.36m: Non-intact quartzite.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				5.36-5.48m: 2No 70° insipient discontinuity infilled with quartz.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				5.55-5.70m: Discontinuities are sub-horizontal (45°) undulating smooth and silty with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				5.71-5.82m: Discontinuities are sub-horizontal (45°) planar smooth with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				5.85-5.94m: Discontinuities are sub-horizontal (45°) undulating smooth with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				6.10m: Discontinuities are sub-horizontal (20°) planar smooth with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				6.21m: Discontinuities are sub-horizontal (5°) planar smooth with orangish brown staining.				
		CS	6.55 - 6.94								
7		C	6.00 - 7.50				6.50-6.56m: Quartz vein.				
		CS	6.55 - 6.94								
8							Borehole completed at 7.50m	7.50	0.50		

EQUIPMENT: Hand digging tools. Fraste Multi-drill PL(G) track mounted rig.  
 METHOD: Hand dug inspection pit: 0.00-1.50m. Dynamic sampling using a 113mm sample barrel: 1.50-2.40m. Waterflush rotary coring using T6-116 coring barrel: 2.40-7.50m.  
 CASING: PW to 2.40m.  
 GROUNDWATER: None encountered prior to using water flush.  
 INSTALLATION: Bentonite pellet seal: 3.50-7.50m. 50mm ID HDPE slotted pipe with washed gravel response zone: 1.00-3.50m. 50mm ID HDPE plain pipe with wash gravel response zone: 0.90-1.00m. 50mm ID HDPE plain pipe with bentonite pellet seal: 0.35-0.90m. 50mm ID HDPE plain pipe with wash gravel response zone: 0.25-0.35m. Flush 150mm steel cover set in concrete: 0.00-0.25m. Gas valve fitted.  
 REMARKS: Dropped core in run 6.00-7.50m, 0.40m lost.

**Groundwater:**

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
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**Hole Progress:**

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
25/04/2023 17:00	6.00	2.40	1.80
26/04/2023 08:00	6.00	2.40	1.74
26/04/2023 11:00	7.50	2.40	



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Project Name: Penrhos 132 kV Substation		Project No: <b>C7957</b>	Co-ords: E 226842 N 380647	Hole Type RC
Location: Anglesey			Level: 7.98m AOD	Scale 1 : 50.00
Client: WSP UK LTD			Dates: Start: 27/04/2023 End: 27/04/2023	Logged By SPM

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAD)	Legend
		No/Type	Depth (m)	Result							
1		B	0.50 - 0.70				MADE GROUND: Grey silty angular to sub-angular coarse GRAVEL of igneous material.	0.20	7.78	[Symbol]	
		B	0.70 - 1.30				Greenish grey silty sandy angular to sub-angular fine to coarse GRAVEL lithorelicts of schist.				
2		C	1.30 - 2.20	C 48			1.30m: Dense	(2.00)	5.78	[Symbol]	
		SPT C	1.30 - 1.75		100% 0% 0%		1.70-1.90m: Greyish green gravelly silt. Gravel is angular to sub-angular fine of lithorelicts of schist.				
3		C	2.20 - 3.20	C*500			Moderately weak foliated greenish grey foliated micaceous SCHIST. Discontinuities are sub-horizontal to sub-vertical (5-90°) very close to closely spaced planar and undulating smooth with silty micaceous infill and orangish brown staining.	2.20	5.78	[Symbol]	
		SPT C	2.20 - 2.33		100% 10% 0%		2.20-2.90m: Non-intact intersecting fractures.				
4		C	3.20 - 4.40				3.50-3.60m: 1No 45° discontinuity with orangish brown staining and infill with angular to sub-angular fine to medium gravel of schist and quartz.	(5.30)	0.48	[Symbol]	
		CS	3.93 - 4.09		100% 46% 13%		3.74m: Discontinuities are sub-horizontal (5°) undulating smooth with orangish brown staining.				
5		C	4.40 - 5.90				3.83m: Discontinuities are sub-horizontal (5°) undulating smooth with orangish brown staining.	0.48	0.48	[Symbol]	
		CS	4.98 - 5.26		100% 45% 21%		3.97m: Discontinuities are sub-horizontal (5°) undulating smooth with orangish brown staining.				
6		C	5.90 - 7.50				4.11m: Discontinuities are sub-horizontal (20°) planar smooth with orangish brown staining. Silty.	0.48	0.48	[Symbol]	
		CS	5.26 - 5.36		62% 16% 5%		4.48-4.80m: 2No discontinuity undulating and planar rough with orangish brown staining.				
7		C	6.37 - 6.51				4.91m: Discontinuities are sub-horizontal (45°) with orangish brown staining.	0.48	0.48	[Symbol]	
		CS	6.37 - 6.51				5.20m: Drilling induced discontinuity sub-horizontal (20°) planar rough.				
8							5.30m: Drilling induced discontinuity sub-horizontal (20°) planar rough.				
							5.41-5.905.20m: Discontinuities are sub-horizontal (70°) undulating smooth with orangish brown staining.				
							5.90-6.23m: Non-intact randomly intersecting.				
							6.24m: Discontinuities are sub-horizontal (5°) planar smooth with orangish brown staining.				
							6.34m: Discontinuities are sub-horizontal (25°) planar rough (drilling induced).				
							6.50m: Discontinuities are sub-horizontal (10°) undulating rough with orangish brown staining.				
							6.57-6.76m: Discontinuities are vertical 90° undulating rough with orangish brown staining. Silty.				
							6.82-7.10m: Intersecting discontinuities 5°-70° non-intact.				
							7.10-7.50m: Undulating smooth with orangish brown				

EQUIPMENT: Hand digging tools. Fraste Multi-drill PL(G) track mounted rig.  
 METHOD: Hand dug inspection pit: 0.00-1.30m. Waterflush rotary coring using T6-116 coring barrel: 1.30-7.50m.  
 CASING: PW to 1.75m.  
 GROUNDWATER: None encountered prior to using water flush.  
 INSTALLATION: Bentonite pellet seal: 3.00-7.50m. 50mm ID HDPE slotted pipe with washed gravel response zone: 1.00-3.00m. 50mm ID HDPE plain pipe with wash gravel response zone: 0.90-1.00m. 50mm ID HDPE plain pipe with bentonite pellet seal: 0.35-0.90m. 50mm ID HDPE plain pipe with wash gravel response zone: 0.25-0.35m. Flush 150mm steel cover set in concrete: 0.00-0.25m. Gas valve fitted.

Groundwater:				Hole Progress:			
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)	Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
				27/04/2023 17:45	7.50	1.75	



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Project Name: Penrhos 132 kV Substation		Project No: <b>C7957</b>	Co-ords: E 226842 N 380647	Hole Type RC
Location: Anglesey			Level: 7.98mAOD	Scale 1 : 50.00
Client: WSP UK LTD			Dates: Start: 27/04/2023 End: 27/04/2023	Logged By SPM

(m)	Water Levels	Core Run, Samples & Testing			Core Run & Sample	TCR SCR RQD	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result							
							staining. Borehole completed at 7.50m				
9											
10											
11											
12											
13											
14											
15											
16											
17											

Groundwater:			
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)

Hole Progress:			
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)