



BOREHOLE LOG

Beauly - Denny 400kv OHL

Borehole No
BF79C-A
Sheet 1 of 2

Status
Final
20/12/2011

Client: Scottish & Southern Energy plc

Consultant: Balfour Beatty Utility Solutions

Job No: 4578

Date Started: 28/10/2011	Initial Boring Diameter: 160mm	Coordinates: E 229893.075 m National Grid
Date Complete: 29/10/2011	Initial Core Diameter: 86mm	N 823547.940 m National Grid
Hole Type: RO+RC	Rotary Casing Type: Robit	Ground Level: 311.06 m OD
Equipment: DB520 Boart	Core Barrel: T2-101	Plunge: 90 °
	Core Bit: Diamond Impreg	Scale: 1:50

Description of Strata	Legend	Depth	Reduced Level	Sampling/ Core Run	U	In Situ Testing		TCR (SCR) RQD	FI	Installation
						Test	Result			
Very soft spongy dark brown pseudo-fibrous PEAT.										
Orangish brown silty gravelly fine to coarse SAND with occasional cobbles. Gravel is angular to sub rounded fine to coarse of psammite. Cobbles are angular to sub angular of psammite.		0.80	310.26							
Dense SAND & GRAVEL (Driller's description) (Open holed)		1.50	309.56			C	31			
Dense SAND (Driller's description) (Open holed).		2.00	309.06							
Weak brownish grey fine to medium grained PSAMMITE, recovered as silty sandy angular to sub angular fine to coarse gravel. Occasional patches of orange staining.		4.00	307.06	4.00-5.00				65 (0) 0	NI	
				5.00-6.00				70 (0) 0	NR	
				6.00-7.00				55 (0) 0	NR	
				7.00-8.00				75 (0) 0	NI	
Continued next sheet										

U Undisturbed U100 / U86 Sample P Piston Sample TW Thin Wall Sample D Small Disturbed Sample B Bulk Disturbed Sample LB Large Bulk Disturbed Sample W Water Sample G Gas Sample C Core J Amber Jar Sample V Vial Sample	Core Run TCR Total Core Recovery SCR Solid Core Recovery RQD Rock Quality Designation FI Fracture Index NI Non Intact U* Blows to drive U100 / U86 UT Thin wall undisturbed sample NA Not Applicable NR No Recovery NP No Penetration	S Standard Penetration Test C Cone Penetration Test 32 N for full 300mm penetration /175 For given penetration (mm) /25# Seating blows only (mm) PP Pocket Penetrometer Test K Permeability Test (m/s) L Packer Test (Lugeons) IV Insitu Vane Test. Peak IVR Insitu Vane Test. Residual HV Hand Vane Test. Peak HVR Hand Vane Test. Residual	CP Cable Percussion RO Rotary Open Hole RC Rotary Cored SO Sonic Open holed CONP Continuous Percussion WLS Windowless Sampler Installation Slotted Pipe Piezometer Tip Grout Concrete Sand Filter Bentonite Seal Gravel Filter
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		<h2 style="margin: 0;">BOREHOLE LOG</h2> <h3 style="margin: 0;">Beauly - Denny 400kv OHL</h3>				Borehole No BF79C-A Sheet 2 of 2 Status Final 20/12/2011					
Client: Scottish & Southern Energy plc Consultant: Balfour Beatty Utility Solutions		Job No: 4578									
Date Started: 28/10/2011 Date Complete: 29/10/2011 Hole Type: RO+RC Equipment: DB520 Boart		Initial Boring Diameter: 160mm Initial Core Diameter: 86mm Rotary Casing Type: Robit Core Barrel: T2-101 Core Bit: Diamond Impreg		Coordinates: E 229893.075 m National Grid N 823547.940 m National Grid Ground Level: 311.06 m OD Plunge: 90° Scale: 1:50							
Description of Strata	Legend	Depth	Reduced Level	Sampling/ Core Run	U	In Situ Testing		TCR (SCR) RQD	FI	Installation	
						Test	Result				
Weak brownish grey fine to medium grained PSAMMITE, recovered as silty sandy angular to sub angular fine to coarse gravel. Occasional patches of orange staining. Between 8.00m and 9.00m, becomes locally strong. From 10.00m, rare intact sections with micaceous bands. From 13.40m to 13.85m, band of pink crystalline quartz. Strong to very strong pink fine to medium grained PSAMMITE with some micaceous bands. Mostly recovered non intact as angular to sub angular fine to coarse gravel with some intact sections. Bedding fractures are inclined at 35deg, planar, smooth, tight and clean.		8.00-9.00						85 (18) 0	NI		
		9.00-10.00						65 (0) 0	NR		
		10.00-11.30							100 (28) 15		
		11.30-12.20							100 (0) 0		
		12.20-13.00							100 (21) 0	NI	
		13.00-13.70							100 (0) 0		
		13.70-14.80		13.85	297.21				100 (30) 30		
14.80-16.00		16.00					100 (0) 0				
End of Borehole at 16.00 m		Core Run TCR Total Core Recovery SCR Solid Core Recovery RQD Rock Quality Designation FI Fracture Index NI Non Intact U* Blows to drive U100 / U86 UT Thin wall undisturbed sample NA Not Applicable NR No Recovery NP No Penetration		S Standard Penetration Test C Cone Penetration Test 32 N for full 300mm penetration /175 For given penetration (mm) /25# Seating blows only (mm) PP Pocket Penetrometer Test K Permeability Test (m/s) L Packer Test (Lugeons) IV Insitu Vane Test. Peak IVR Insitu Vane Test. Residual HV Hand Vane Test. Peak HVR Hand Vane Test. Residual		CP Cable Percussion RO Rotary Open Hole RC Rotary Cored SO Sonic Open Holed CONP Continuous Percussion WLS Windowless Sampler Installation Slotted Pipe Piezometer Tip Grout Concrete Sand Filter Bentonite Seal Gravel Filter					