

## **bam** ritchies

## **BOREHOLE LOG**

Beauly - Denny 400kv OHL

Borehole No BF74B-A Sheet 1 of 2 Status Final 29/11/2011

Client: Scottish & Southern Energy plc

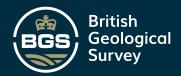
Consultant: Balfour Beatty Utility Solutions

Job No: 4578

Γ	Date Started	14/10/2011	Initial Boring Diameter:	160mm	Coordinates:	E 230955.087 m National Grid
	Date Complete:	15/10/2011	Initial Core Diameter	86mm		N 825428.835 m National Grid
	Hole Type:	RO+RC	Rotary Casing Type	Robit	Ground Level:	260.20 m QD
	Equipment:	DB520 Boart	Core Barrel:	T2-101	Plunge:	90 °
L			Core Bit:	Diamond Impreg	Scale:	1:50

	Core Bit:		Diamond Ir	npreg	Scale:		1:50			
Description of Strata	Legend	Depth	Reduced Level	Sampling/ Core Run		U Ir	n Situ Testing	TCR (SCR) RQD	FI	Instal
Very soft spongy dark brown pseudo-fibrous PEAT.	safe,									
SAND & GRAVEL. (Driller's description)		1.10	259.10				(S)			, ci
Very strong grey fine to medium grained PSAMMITE slightly weathered with some yellowish brown stainir on fractures. Occasional micaceous bands. Bedding fractures are inclined between 20deg and 30deg and very closely to closely spaced, planar, smooth, tight and frequently micaceous.	ig (************************************	1.70	258.50	1.70	)-3.00	10		100 (94) 75	7	
From 3.00m to 4.30m, with frequent pinkish white crystalline quartz bands.					0-3.50			100 (0) 0 100 (16) 0	NI	
From 4.30m, locally more weathered with some wea and broken bands and patches of orangish brown staining. Dark grey in colour. Sub vertical and sub lorizontal fractures.	aker				0-5.00 0-6.50		·	100 (0) 0 100		
From 6.00m to 6.50m, becomes medium strong to a	strong	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		0.5	0.7.70	0	(S)	100	12	
From 6.50m, with some occasional bands of crystal quartz.	line	******			0-7.70			100 (79) 63	7	
Continued next sheet		#	6					(100)		$\perp$

CONT	muçu next oncet		,,,,,,,,			100
		-	Core Run	S	Standard Penetration Test	CP Cable Percussion
U	Undisturbed U100 / U86 Sample	TCR	Total Core Recovery	С	Cone Penetration Test	RO Rotary Open Hole
P	Piston Sample	SCR	Solid Core Recovery	32	N for full 300mm penetration	RC Rotary Cored
TW	Thin Wall Sample	RQD	Rock Quality Designation	/175	For given penetration (mm)	SO Sonic Open holed
D	Small Disturbed Sample	FI	Fracture Index	/25#	Seating blows only (mm)	CONP Continuous Percussion
В	Bulk Disturbed Sample	NI	Non Intact	PP	Pocket Penetrometer Test	WLS Windowless Sampler
LB	Large Bulk Disturbed Sample	U*	Blows to drive U100 / U86	K	Permeability Test (m/s)	Installation
w	Water Sample	UT	Thin wall undisturbed sample	L	Packer Test (Lugeons)	Slotted Pipe Sand Filter
G	Gas Sample	NA	Not Applicable	IV	Insitu Vane Test. Peak	Piezometer Tip Bentonite Seal
c	Core	NR	No Recovery	IVR	Insitu Vane Test. Residual	NZI Delitorite Seat
Ĭ	Amber Jar Sample	1	No Penetration	HV	Hand Vane Test. Peak	Pit Glaver Filter
v	Vial Sample	NP	No Penetration	HVR	Hand Vane Test. Residual	Concrete





Amber Jar Sample Vial Sample No Penetration

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Date Complete: 15/10/20	11 Initial Core Diamete	r 86mm		N	825428.835 m National Grid
Hole Type: RO+RC	Rotary Casing Type	Robit	Ground Level:	260.	20 m OD
Equipment: DB520 E	oart Core Barrel: Core Bit:	T2-101 Diamond Impreg	Plunge: Scale:	90 ° 1:50	1

Equipment:	DB320 Boart	Core Bit:			Diamond In	npreg Scale		1:50				
Desc	cription of Strata		Legend	Depth	Reduced Level	Sampling/ Core Run	U	In Situ Testing	TCR (SCR) RQD	FI	Install -ation	
slightly weathered on fractures. Occi fractures are inclin	ine to medium grained PSAMM with some yellowish brown stassional micaceous bands. Bedned between 20deg and 30deg usely spaced, planar, smooth, ticaceous.	aining ding and are				8.00-9.50		Test Resul	100 (83) 77	5		
		•				9.50-10.20		3G (S)	100 (93) 71	8		
				-		10.20-10.7	70		100			
						10.70-11.7	70		100 100 (100) 85	6		
						11.70-12.	70		100 (90) 75			
						12.70-13.	70		100 (90) 60	9		
End of Borehole	at 13.70 m			13.70	246.50			3G5)				
	U100 / U86 Sample TCR T	Core Run		s c		lard Penetration Test Penetration Test			e Percussion ry Open Hole			
P Piston Sample SCR Solid Core Recovery TW Thin Wall Sample RQD Rock Quality Designat D Small Disturbed Sample FI Fracture Index B Bulk Disturbed Sample NI Non Intact			U86	32 /175 /25# PP K	For g Seati Pock Perm	full 300mm penetration iven penetration (mm) ng blows only (mm) et Penetrometer Test eability Test (m/s)	1	RC Rotary Cored SO Sonic Open holed CONP Continuous Percussion WLS Windowless Sampler Installation Slotted Pipe Sand Filter				
W Water Sample G Gas Sample C Core	W Water Sample UT Thin wall undisturbed set NA Not Applicable C Core NR No Recovery			IV IVR HV	Insitu Insitu	er Test (Lugeons) Vane Test. Peak Vane Test. Residual Vane Test. Peak		Slotted F Piezome Grout	erTip B	Sand Filter Bentonite Seal Gravel Filter		

Concrete