

IDL TP TEMPLATE.GDT 21/06/17

UK DH LANESBOROUGH RC ALL JUNE 21 2017.GPJ

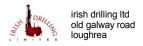
AGS3 |

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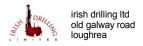
#### Location DRILLHOLE No Project Derryadd Wind Farm Co Longford **RC01** Date Job No Ground Level (m OD) Co-Ordinates () 02-06-17 2017-LD-102 02-06-17 42.37 E 205,878.0 N 265,255.0 Engineer Sheet 1 of 2 Tobin Rev. DRAFT STRATA **RUN DETAILS** Backfill Geology TCR (SPT) Depth DESCRIPTION Depth Red'cd (SCR) RQD Fracture (Thick-Legend Date Level Detail Discontinuities Main Spacing ness) 0.00 - 7.10 : overburden. Open hole drilling - no recovery. 0.00 0 (-) -(2.00)NA 2.00 40.37 2.00 (4) Soft light brownish grey SILT/MARL х with rootlets and broken white v¥/ gastropod shells. (0.85m recovered). 16 (-) × (5.10)× NA × <u>6.50</u> 6.50 (49/150mm) vy, 7.10 35.2 80 Weathered LIMESTONE rock. 7.10 - 8.00 Non-intact as weathered (27) Recovered as angular medium to coarse gravel and cobble sized clasts of rock. (0.90) NI grey limestone with a little light grey 8.00 34.37 8.00 silt. 8.00 - 13.80 Discontinuities, medium Strong thinly bedded light grey cherty dipping 12 to 14°, stepped, rough, with 0.5 to 1mm thick light grey silt fine and medium grained LIMESTONE with subvertical 0.5 to 100 (88) 73 4 1mm thick milky white calcitic smear. veinlets 9.20 4 100 Drilling Progress and Water Observations Rotary Flush GENERAL Water Strike | Standing Casing Depth | Dia Core Dia REMARKS Date Time Depth From (m) To (m) Type Return (%) mm 15.20 water 100 50mm standpipe installed. 0 Response zone - 8.50m to 15.20m bgl. All dimensions in | Client: Bord na Mona Driller Method/ Hydreq Bit HQ Logged By metres Scale 1:62.5 Plant Used ÉAT

Design

GF



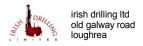
Colongford         RC01           Job No         Date         02-06-17         d2.37         F205,678.0         N 265,255.0         RC01           Engineer         Tobin         New         2 of 2         New         2 of 2         New         2 of 2           Date         (SP)         Reference         Strong fluidy blacket light grey oberly fluids         New	Project	Derry	add Win	d Farm					Loca	ation					Ι	ORILLH	OLE	No
Decision         Decision         Decision         Decision         Decision         State         2 of 2 of 2           Engineer         1         2017-LD-102         State         2 of 2 of 2         State         2 of 2 of 2           Engineer         1 </td <td></td> <td>5</td> <td></td> <td>RC</td> <td>:01</td> <td></td>		5														RC	:01	
Engineer     Sheet     2 of 2       Tobin     Rev. DRAFT       RUN DETAILS     Forder legend       Date     CCD       100     Forder legend       100     Forder legend       100     2       100     2       100     2       100     3       100     3       100     3       100     3       100     3       100     3       100     3       112.00     1.380 - 15.20 Discontinuities, model general basic science       113.00 = 10.340m     data science       113.00 = 10.340m </td <td></td> <td></td> <td></td> <td>02.</td> <td>-06-17</td> <td></td> <td>Grour</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				02.	-06-17		Grour				0							
Incrementary production         Rev. DRAFT           STRATA           Description         Colspan="2">STRATA           Discontinuities         Disontinuities         Discontinuities			102	02-	-06-17			42.3	7	E 20	)5,878.	.0 N 26	55,255	5.0			2 6	
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10.80       - <td>Date</td> <td>RQD (98)</td> <td>Spacing</td> <td></td> <td>r</td> <td>ness)</td> <td>Dis</td> <td>continuiti</td> <td>ies</td> <td>Det</td> <td></td> <td>rong thin</td> <td></td> <td></td> <td>ht grou</td> <td>oborty</td> <td>Ğ</td> <td>Щ й П</td>	Date	RQD (98)	Spacing		r	ness)	Dis	continuiti	ies	Det		rong thin			ht grou	oborty	Ğ	Щ й П
10.80       - <td></td> <td>96</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>fi</td> <td>ne and me</td> <td>dium g</td> <td>grained</td> <td>1</td> <td></td> <td></td> <td></td>		96									fi	ne and me	dium g	grained	1			
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12 20     3     1     13.80     1     28.57     13.80       13.80     1     28.57     13.80     13.80     13.80     13.00m to 13.40m: dark gray.       13.80     1     28.57     13.80     13.80     15.20     Very strong apparently massive light orangish brown cashine fine and medium spaced. Journal tick light gray, with 0.5 to turn thick light gray, with 0.5 to turn thick light gray at a medium space.     Very strong apparently massive light orangish brown cashine fine and medium space.       15.20     27.17     15.20     Image: straight cashine fine and medium space.     Image: straight cashine fine and medium space.       15.20     27.17     15.20     Image: straight cashine fine and medium space.     Image: straight cashine fine and medium space.       15.20     27.17     15.20     Image: straight cashine fine and medium space.     Image: straight cashine fine and medium space.       13.00m to 13.40m: dark gray.     Image: straight cashine fine and medium space.     Image: straight cashine fine and medium space.       15.20     27.17     15.20     Image: straight cashine fine and medium space.     Image: straight cashine fine and medium space.       13.00m to 13.40m: dark gray.     Image: straight cashine fine fine and medium space.     Image: straight cashine fine fine and medium space.       15.20     27.17     15.20     Image: straight cashine fine fine and medium space.     Image: straight cashine fine fine and med				_		(5.80)					ve	einlets. (co	ontinue	ed)				:冒:
12.20     3     13.80     13.80     13.80     13.80     13.00m to 13.40m dark grey.       13.80     1     28.57     13.80     13.80     15.20     Discontinuities: medium spaced, locally closely spaced, dipping 12 to 14*, stepped, orough, with 05 to 1mm thek light orangish brown crystallies fine and medium grained DOLOMTISED       15.20     27.17     15.20     ISCONTINUE     Wery strong apparently massive light oranging DOLOMTISED       15.20     27.17     15.20     Bit terminated at 15.20m bgl on REs       15.20     27.17     15.20     Bit terminated at 15.20m bgl on REs       Image: straight or st																		
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13.80     1     28.57     13.80     13.80 - 15.20 Discontinuities, medium spaced, locally closely spaced, dipping 120 14 <sup>2</sup> , stepped, or angish brown crystilline fine and medium grained DOLOMTISED       100     100     100     13.80 - 15.20 Discontinuities, medium spaced, locally closely spaced, dipping 120 14 <sup>2</sup> , stepped, or grey sit smear.       15.20     27.17     15.20       15.20     27.17     15.20       15.20     27.17     15.20       15.20     27.17     15.20       15.20     27.17     15.20       15.20     27.17     15.20       15.20     27.17     15.20       15.20     27.17     15.20       15.20     15.20 big on REs       instruction.     BH terminated at 15.20m bgl on REs       instruction.     From (m) To (m) Type Return (%)       Strate     Time Depth Depth Strate Tom Strate Standing       Time Depth Depth Strate Dia     Orn Dia       Multimensions in Client: Bord na Mona     Method       Hudimensions in Client: Bord na Mona     Method	12.20			_														
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13.80       1       28.57       13.80         100       100       13.80 - 15.20 Discontinuities, medium spaced, locally closed, dipping 12 to 14*, stepped, rough, with 0.5 to 1mm thick light       Very strong apparently massive light         15.20       27.17       15.20       BH terminated at 15.20m bgl on REs         15.20       27.17       15.20       BH terminated at 15.20m bgl on REs         15.20       27.17       15.20       BH terminated at 15.20m bgl on REs         15.20       27.17       15.20       BH terminated at 15.20m bgl on REs         15.20       27.17       15.20       BH terminated at 15.20m bgl on REs         15.20       15.20       15.20       BH terminated at 15.20m bgl on REs         15.20       15.20       15.20       BH terminated at 15.20m bgl on REs         15.20       15.20       15.20       15.20       BH terminated at 15.20m bgl on REs         15.20       15.20       15.20       15.20       15.20       15.20         15.20       15.20       15.20       15.20       15.20       15.20         15.20       15.20       15.20       15.20       15.20       15.20         15.20       15.20       15.20       15.20       15.20       16.20         15.20		(98)		_									12.10					[:目:
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13.80-15.20 Discontinuities, 13.80-15.20 Discontinuities, spaced, dipping 12 to 14", stepped, oragish brown erstyline fine and medium grained DOLOMITISED LIMESTONE.     Very Particle and medium grained DOLOMITISED LIMESTONE.       15.20     27.17     15.20       15.20     27.17     15.20	13.80		1	28 57		13.80												:目:
100 96 96 96 15.20       3       Image: stripping 12 to 14", stepped, orge, with 0.5 to 1mm thick light grey sift smear.       medium grained DOLOMITISED LMESTONE.       Image: stripping 12 to 14", stepped, orge, with 0.5 to 1mm thick light         15.20       27.17       15.20       BH terminated at 15.20m bgl on REs         Image: stripping 12 to 14", stepped, orge sift smear.       BH terminated at 15.20m bgl on REs         Image: stripping 12 to 14", stepped, orge sift smear.       BH terminated at 15.20m bgl on REs         Image: stripping 12 to 14", stepped, orge sift smear.       BH terminated at 15.20m bgl on REs         Image: stripping 12 to 14", stripping 12 to 14", stepped, orge sift smear.       BH terminated at 15.20m bgl on REs         Image: stripping 12 to 14", striping 12 to 14", stripping 12 to 14", stripp	15.00			20.57		15.00	13.8	80 - 15.20	Discontin	uities,	V	ery strong	g appar	ently r	nassive	e light		
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All dimensions in metres scale 1625.2       Client: Bord na Mona       Method/ Plant Used       Hydreq       Bit       HQ       Driller       Logged By         All dimensions in metres scale 1625.2       Client: Bord na Mona       Method/ Plant Used       Hydreq       Bit       HQ       Driller       Logged By					E													
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Drilling Progress and Water Observations       Rotary Flush         Date       Time       Depth       Depth       Core Dia mm       Strike       Standing       From (m)       To (m)       Type       Return (%)         Date       Time       Depth       Depth       Core Dia mm       Strike       Standing       From (m)       To (m)       Type       Return (%)       Somm standpipe installed. Response zone - 8.50m to 15.20m bgl.         All dimensions in metres       Client: Bord na Mona       Method/       Hydreq       Bit       HQ       Driller GF       Logged By EAT					E													
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Drilling Progress and Water Observations       Rotary Flush         Date       Time       Depth       Depth       Core Dia       Strike       Standing       From (m)       To (m)       Type       Return (%)         Date       Time       Depth       Depth       Core Dia       Strike       Standing       From (m)       To (m)       Type       Return (%)         All dimensions in metres       Client: Bord na Mona       Method/       Hydreq       Bit       HQ       Driller       Logged By																		
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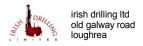
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<u>1</u>  21			UI: D									<b>F1 1</b>						
L JUI	Data			gress and			rvati re Dia		ater			Flush	Return	(0/)		GENE REMA		
RC AL	Date	Tir	ne Dep	Dept	Casing h   D	ha 1	mm	Strike	ter Standing	From (m)	To (m 20.00	/			2 0011	lons of po		lood
1GH I										0	20.00	polyme	100	'	50mm	n standpip	e insta	lled.
ORO																onse zone )m bgl.	- 8.50r	n to
<b>NESB</b>																-		
F																		
UK P																		
IDL AGS3 UK DH LANESBOROUGH RC ALL JUNE 21 2017. GPJ IDL TP TEMPLATE. GDT 21/06/17	All dime	ensions i	in Client:	Bord na Mo	ona	 []	Metho	d/ Hyc	irea	LI		Bit H	IQ ]	Drill	er	Logged	By	
≓ DL A	me Scale	etres 1:62.5				]	Plant U	Jsed 190	1			Design		GF		0000	ĒA	Γ



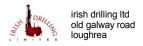
Project	Derry	add Win	d Farm					Loca	tion					Ι	DRILLF	IOLE	No
	5								Longford						R	:02	
Job No		100	Date 25	-05-17		Grou	nd Level (	·	Co-Ordina		0.010		_			/02	
	17-LD-	-102	26	-05-17			43.10	5	E 20	6,689	.9 N 26	57,999.	7			0 0	
Engine															heet	2 of	3
	Tobin													R	ev. DRA	AFT	
RU	-	TAILS						S	TRATA							- X8	Instrument/ Backfill
Depth Date	TCR (SCR)	(SPT) Fracture	Red'cd Level	Legend	Dept (Thick-						TION					Geology	∴ ∐nstrume ∐Backfill
10.10	RQD	Spacing	Level	V//X	ness)	Dis	continuiti	ies	Det		ossible we	Ma		ESTO	NE	Ğ	Ba Ba
11.20	46 (13) 0				(3.00)					rc R gr of lin fi	cck. ecovered a ravel cobb f orangish mestone w ne and me nd dolomi	as angula de and bo brown d vith round dium ass	ar fin oulde lolon ded a sorte	te to co er sized nitised and sul d limes	oarse d clasts bangular stone		
12.20	80 (56) 11		31.46		11.7	0				so (c P	ome light l continued) ossible we	orown sil	lty sa	ınd.	/		
	89 (71) 56	NR/NI			(1.90)					R li	ock. ecovered ght grey c mestone.	as very s herty find	trong e gra	g thinly ined	y bedded		
14.00										rc R lij	ossible we ock. ecovered ght cream	as strong ish grey i	g thin	ly bed	ded		
15.20	(68) 20										rained lim						
	5.20 27.81 100 (91) 79 8					med spa	dium spac ced, dipp gh, with (	Discontine ced, locally ing 12 to 14 0.5 to 2mm	closely	fi L	ery strong ne and me IMESTOM	dium gra	edde ained	d grey l	r cherty		
16.80		7			- - - - -												
	100 (94) 25	15			(4.65)	ster thic	oped, roug ok grey sil 80 - 18.2;	0 Joint, vert gh, with 0.5 It smear, op 5 Joint, vert	to 2mm en.	1	7.00m to 1	18.00m: o	coars	se grain	ned.		
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					thic	spea, roug k grey sil	gh, with 0.5 It smear, op	to 2mm en.								
						ster	oped, roug	) Joint, vert gh, with 0.5 It smear, op	to 2mm								
	Drilling Progress and Water C           Date         Time         Depth         Casing Depth         Dia								I	Rotary	/ Flush				GENE		_
Date							Strike Wa	ater Standing	From (m)	To (n	n) Type	Return	(%)		REMA	RKS	
Date Date														50mr Resp	lons of po n standpip onse zone )m bgl.	be insta	lled.
All dime	ensions i etres 1:62.5	in Client:	Bord na M	ona		Methoc Plant U		lreq			Bit H Design	~	Drill GF	er	Logged	l By EA	Г



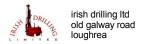
	Project	Derry	add Win	d Farm					Loca	ation					Ι	ORILLH	IOLE	No
		5								Longford						RC	;02	
	Job No			Date 25	-05-17		Grou	nd Level (		Co-Ordina				_			02	
		7-LD-	102	26	-05-17			43.10	5	E 20	)6,689.	.9 N 26	57,999	9.7			2 0	
	Enginee																3 of	3
		Fobin													R	ev. DRA	FT	
	RU		TAILS			<b>D</b> 1			S	STRATA							- So	Instrument/ Backfill
	Depth Date	TCR (SCR)	(SPT) Fracture	Red'cd Level	Legendi	Deptl Thick-					SCRIP	TION					Geology	strur ackfi
	Date	RQD	Spacing		n	ness)	Dis	continuit	ies	Det		H termina		<u>/ain</u> 20.00r	n hal a	n RFs	Ğ	Ц й
											in	struction.	licu at 2	20.001	nogro	II ICLS		
IDL AGS3 UK DH LANESBOROUGH RC ALL JUNE 21 2017.GPJ IDL TP TEMPLATE.GDT 21/06/17																		
LJUNI				gress and			rvatio re Dia		ater		-	Flush	n			GENE		
SC ALL	Date	Tin	ne Dep	oth Dept	Casing h   Dia	a   r	nm	Strike	ter Standing	From (m)	To (m	i) Type	Retur	m (%)		REMA		
UK DH LANESBOROUGH R															50mr	lons of pol n standpip onse zone )m bgl.	e insta	lled.
IDL AGS3 (	All dime me Scale	ensions i etres 1:62.5	n Client:	Bord na Mo	ona	N F	Method Plant U	l/ Hyc Ised	lreq	· · · · · · · · · · · · · · · · · · ·		Bit H Design	IQ	Drill GF	ler	Logged	By EA	Г



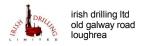
Project         Dersyndd Wind Farm         Incation         DRILLHOLEN           Job No         Date         244.05-17         Ground Level (m.OD)         Co-Ordinates ()         RC03           Ingineer         Tobin         210.12.02-102         Date         244.05-17         42.82         E-Ordinates ()         RC03           Project         Tobin         Steel         1 of 2         Annotation         Steel         1 of 2           RUN DETAILS         STRATA         Based         Decision         Discontinuities         Deal         Main         Based         Rev         DRAFT           RUN DETAILS         STRATA         Discontinuities         Deal         Main         Based         Discontinuities         Deal         Main         Based
Joint 2         24-05-17         Global Leve (nr GJ)         Co-Matalas ()           Engineer         24-05-17         42.82         E 205,861.7         N 268,522.9           RUN DETAILS         STRATA         Rev. DRAFT           Depth Date         (SPT) RCD         Redved Fracture         Legend Level         Depth Continuities         Open hole drilling - no recovery.         0           0.00         0         41.32         1.50         0.00 - 2.70 : overburden.         Open hole drilling - no recovery.         0           1.50         40.12         2.70         1.50         Stiff light grey slightly sandy slightly gravelig uimestone. Cobbles are of assorted grey limestone.           100         8         7         1.50         1.50         1.50         1.50         1.50         1.50
Index of 2       RUN DETAILS       STRATA       Depth (RQD)     CR (RQD)     Red'ed Level     Depth (Chick- result)     StrRATA       0.00     0     0     0     0       0.00     0     0     0     0       0.01     1.50     41.32     1.50       1.50     40.12     2.70     1.50     Stiff light grey slightly sandy slightly gravelly SILT/CLAY with cobles are of assorted grey limestone.       0     0     40.12     2.70     1.50       1.50     0     40.12     2.70       0     0     0       100     0     0       100     8     0       100     8     0       100     8     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0     0       100     0       100     0
Rev. DRAFT       Depth (SCR) (SPT) (ROP) (Level Legend (Thick-ness))       Date     Rev. (ROP)
Interview of the second secon
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $
4.10       3.80 - 4.55 2 No parallel joints, subvertical dip, planar, smooth, with 0.5 to 1mm thick grey silt smear, open.         100       8         100       9         5.70       3         100       9
4.10     subvertical dip, planar, smooth, with 0.5 to 1mm thick grey silt smear, open.       100     8       59
100 (95) 59     8     0pen.       5.70     3       100 (91) 78     6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
5.70 3 100 (91) 78 6
7.30     3       100     3       90     3       8.90     3       100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Drilling Progress and Water Observations   Rotary Flush   GENERAL
Date         Time         Depth         Casing Depth         Core Dia Dia         Water Strike         From (m)         To (m)         Type         Return (%)         REMARKS
$\frac{2}{2}$ $\frac{2}$
50mm standpipe installed Response zone - 3.50m to
č
Image: Second stateClient: Bord na MonaMethod/ Plant UsedHydreqBit DesignHQ GFDriller EATLogged By EAT



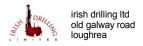
Project	Derry	add Win	d Farm					Loc	ation					Ι	DRILLH	OLE	No
						1			Longford						RC	:03	
Job No		100	Date 24-	-05-17		Grou	nd Level		Co-Ordina		-		•				
	17-LD-	102	24-	-05-17			42.82	2	E 20	)5,861	.7 N 20	58,522	2.9			2 6	2
Engine																2 of	2
	Tobin													R	ev. DRA	FT	
RU		TAILS				1			STRATA		TRANK					gy	nent
Depth Date	(SUK)	(SPT) Fracture	Red'cd Level	Legend	Dept (Thick-						TION					Geology	strui ackfi
Date	RQD	Spacing			ness)	Dis	continuit	ies	Det		ery strong		Aain bedde	d orev	cherty	G	Instrument/ Backfill
10.50					}					fi	ne and me	dium g	grained	1	enerty		目
		3			E F						IMESTO	NE. (CC	ontinue	ed)			
	100				-												
	100 (95) 94																
	94	3			- - -												[:目:
12.10			_		- - -												
					Ę												[:目:
	100	2			- -												[:目:
	(98) 97				+ - 												に目:
	97				+ -												
13.70		5			t t												に目:
					- - 												[:目:
	100				1- F												
	(95) 93	3			ŀ												
	,,,																
15.30		1	27.52		- 15.3	80											
					Ē					B ir	H termina struction.	ated at	15.30n	n bgl o	n REs		
					-												
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릴					 -												
GPJ					F												
1 201					E												
	Drilling Progress and Water Observations Rotary Flush														CENE		
J Date	Tir			$\begin{array}{c} \text{Casing}\\ \text{h} & D \end{array}$		ore Dia		ater   Standing	From (m)	-		Retur	n (%)		GENE REMA		
			Depti			mm	Strike	Standing		10 (11	-) - ) P -		(, .)	1 gal	lon of poly		sed.
DUGH	50mm Respondent 15.30r												50m	n standpip	e insta	lled.	
BORO													)m bgl.	- 5.501	11 10		
ANES																	
≍  ≍																	
DL AGS UK DH LANESBOROUGH RC ALL JUNE 21 2017.GPJ IDL TP TEMPLATE.GDT 21/06/17 Date Date Control	ensions i	n Client:	Bord na Mo	ona		Method	l∕ Hyo	dreq				IQ	Drill	er	Logged	By	r.
	etres 1:62.5					Plant U	sed				Design		GF			ĒA	ľ



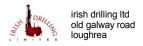
Project	Derry	add Win	d Farm					Loca	ation					Ι	DRILLH	IOLE	No
									Longford						RC	:04	
Job No			Date 31	-05-17		Grou	nd Level (	· /	Co-Ordina	0							
	17-LD-	-102	31-	-05-17			42.8	8	E 20	06,240.	4 N 26	56,28	3.4			1 0	
Engine														S	heet	1 of	2
	Tobin													R	ev. DRA	.FT	1.
RU		TAILS			1			S	STRATA							2	⊠Instrument/ ⊼Backfill
Depth	TCR (SCR)	(SPT) Fracture	Red'cd	Legend	Dep (Thick	th -			DES	SCRIP	TION					Geology	trun ckfil
Date	RQD	Spacing		Legena	ness)	Dis	scontinuit		Det				Main			Ge	A Ins A Ba
0.00					Ē	0.0	0 - 3.80 :	overburder	1.	O	pen hole o	drilling	g - no r	ecover	у.		ZZA Instrume
	0																V/ V/
	(-)	NA			(1.50)	)											
					F												AVANAYAYAYAYA
1.50			41.38	<sup>∞</sup> 0x0 <sup>∞</sup> 0	- 1.5	50				Si	ıbrounded	to su	hangul	ar fine	to		
				818	1					cc	arse milk	y whit	e quar	tz and a	assorted		
	20 (-)			%0°_5%0 \$	ŧ					gr G	ey and da RAVEL v	with so	y nmes	ey silt.			
	-																KG K
3.00		NA		0 D 0 8 D 8	[ (2.30)	)											
5.00				8 8 8	1- -												
	100 (14)			0x00													
	0		39.08	848	- 3.8												に目
4.00					}	3.8 roc		Non-intact a	s weathered	R	eathered ecovered	as ang	ular fii	ne to co	barse		l:目:
	100			$\mathbb{K}$						gr	avel cobb	le and	bould	er sized	d clasts		に目
	(58) 23			>>>>						C	ore run - 4	4.00m	to 5.00	)m: 1 N	lo grev		k: E:
5.00		NI			(2.40)	)				lir	nestone b	oulder	250m	m in le	ngth		「目
	100	111		$\mathbb{K}$													ŀ₿
	(67) 24			>>>>						C	ore run - :	5 00m	to 6 00	)m·1N	Jo grev		「目
6.00			26.69							lir	nestone b	oulder	290m	m in le	ngth.		!:目:
			36.68		6.2	6.2			ities, mediu	m V	ery strong	g thinly	/ bedde	ed grey	slightly		「目
	100	8			- -	spa	ced, local	lly closely s o 20°, stepp	paced,	bi	oclastic c ained LIN	herty f	fine and	d medi	um		!:目:
	(87) 58	0	_			wit	h 0.5 to 1	mm thick g	rey silt	g,			JIL.				「目
					-	sm 6.5	0 - 6.80 J	oint, subve	rtical dip,								k B:
7.50 7.50 9.00		1			-	ste	oped, roug	gh, with 0.5 It smear, op	to 1mm								に目
		_			- - -		K grey si	it sincar, op	cii.								ŀ₿.
AIE	100				F												
	(95) 87	2			f F			oint, subver									ŀ.₿.
		2			Ę	mil	ky white	oth, with 0.5 calcitic ven	eer, open as	3							
∃	9.00						lling indu	ced?									
107							5 - 9.85 J	oint, subve	rtical dip,								k:≣:
	61 D 1	UI: D									<b>F1 1</b>						
			gress and			ervation ore Dia		ater			Flush	D (	(0/)		GENE REMA		
Date	Tir	ne Dep	oth Dept	Casing n   D	ia C	mm	Strike	ater Standing	From (m)		,		rn (%)	1 1			1
									0	15.00	) polyme	r I	00	50m	lon of poly n standpip	e insta	lled.
															onse zone )m bgl.	- 3.50r	n to
ESB(														15.00			
LAN																	
Date																	
All dimensions in     Client: Bord na Mona							1/ 11	1			 		<u> </u>	<u> </u>	<u>т</u> .	D	
a me	etres 1:62.5	Client:	вога na Mo	ona		Methoo Plant U		lreq			Bit H Design	IQ	Dril GF	ler	Logged	EA	Г



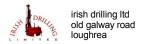
Project	Derrya	add Win	d Farm					Loca	tion					Ι	DRILLH	OLE	No
Job No			Dete			Crow	nd Level (m OD)		Longford Co-Ordina	atas ()				_	RC	:04	
	17-LD-	102	31.	-05-17 -05-17		Gioui	42.88	,		0	.4 N 26	6.283	3.4				
Enginee														SI	heet	2 of	2
	Гobin													R	ev. DRA	FT	
RU	N DET							S	TRATA							y	ient/ 1
Depth	TCR (SCR)	(SPT) Fracture	Red'cd Level	Legend	Depth (Thick-	1				SCRIP	TION					Geology	strum ckfil
Date	RQD	Spacing	Level		ness)	Dis	continuities oped, rough, with	h () 5	Det		ery strong		Aain bedde	d orev	slightly	Ge	Ba
10.50	100	7			(8.80)	thic 10.2 step thic	k grey silt smea 20 - 10.55 Joint, oped, rough, with k grey silt smea nge brown iron s	r, ope subv h 0.5 r and	en. vertical dip, to 1mm minor	, bi , gr 1(	oclastic c ained LIN	herty fi IESTC	ine and DNE. (	d medi <i>contini</i>	um ued)		Instrument/
12.00	(98) 94	3	_		- - - - - - -			,	.1.	fi	ne grainec	1.					
	100 (98) 94	5	_		- - - - - - - -					12	2.90m to 1	3.00m	: dark	grey c	herty		
13.50	100	7			- - - - - - - -	step	50 - 14.40 Joint, pped, smooth, wi k grey silt smea	ith 0.	5 to 1mm	13	ne grained 3.50m to 1 ne grained	3.70m	: dark	grey c	herty		
15.00	(84) 45	9	27.88		15.00			, 1		fi	4.60m to 1 ne grained H termina	l.					
Date All dime Scale										in	Flush						
Date	Tin		gress and			e Dia nm	Water Strike   Stand	ing	From (m)			Retur	n (%)		GENE REMA		
							Sume Sum							50mr Resp	lon of poly m standpip onse zone Om bgl.	e insta - 3.50r	lled. n to
All dime me Scale	ensions i etres 1:62.5	n Client:	Bord na Mo	ona	N P	/lethod lant U	Hydreq	1	·		Bit H Design	IQ	Drill GF	er	Logged	By EA	Г



Project	Derry	add Win	d Farm					Loca	tion					Ι	ORILLH	IOLE	No
			<b>D</b> :				17 1/		Longford					_	RC	C05	
Job No	) 17-LD-	102	Date 29-	-05-17 -05-17		Grour	nd Level (r 47.19	ŕ	Co-Ordina	0	5 N 24	<i>c</i> 200	0 1				
Engine		102	30-	-03-17			47.19		E 20	10,0/1	.5 N 26	00,200	5.1	S	heet	1 of	3
-	Tobin														ev. DRA		5
	JN DET	TAILS						S	TRATA					I.			lt/
Depth	TCR	(SPT)	Red'cd		Deptl	h				SCRIP	TION					ogy	么Instrument/ 云Backfill
Date	(SCR) RQD	Fracture Spacing	Level	Legend	(Thick- ness)	Dis	continuitie	s	Det			N	Main			Geology	Instr Back
0.00			,		-		0 - 22.50 :		n.	0	pen hole o	lrilling	; - no r	ecover	y.		Instrume Backfill
	0																KA K
	(-) -	NA			(1.50)												
					Ē												
1.50	)	(21)	45.69	هر ه	- 1.5	0				M	ledium de	nse suł	bround	led to			
1.00	40	(21)		000	• •					su	bangular	fine to	coarse	e brow	n mtad		
	(-)			9000							ey and da						
2.50	)			Sec	-					C	obbles are	e of lim	bbles a	and bo e. Boul	ulders. ders are		
	100 (-)			000	-(3.00)					of	limeston	e. 2.50m 1	to 3.40	)m: 1 N	lo light		
3.40	-			D°	F(3.00)					gr	ey limesto ngth. 1 No	one boi	ulder 2	250mm	in		
5.40				000	₽  -  -					b	oulder 340 ore run - 3	)mm in	ı lengtl	h.			
	55 (-)			0000	Ę					gr	ey limesto	one bo	ulder 2	240mm	in		
	-				- - -					le	ngth.						
4.50	)		42.69	xo	4.5	0				M	ledium de	nse lig	ht orar	1gish b	rown		
				· · · × ·	-					sl	ightly silt artz SAN	grave	elly fin avel is	e and c	coarse		
	20 (-)			` °. ` . ` *	Ę					SU	brounded	fine a	nd me	dium o	f quartz		
	-			· · · × ·	Ē					a	iu iiiiesto	ne.					
6.00		NA			-												
6.00	)	(21)		× · · ·	-												
	10			×···													
	(-)			×0`	-												DVA DV
7.50				· · · · · · · · · · · · · · · · · · ·	Ē												
<u>p 7.30</u>				×	Ē												
GDI	27			хо <sup></sup>	-												
	27 (-)			· · · × ·	Ē												
	-			: °. ×.													
<u>-</u> 9.00	)			· · · × .	-												
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0.11.0	27 (-)			× · · ·	-												
	-			×													
			gress and			rvatio re Dia		er			Flush	D (	(0/)		GENE REMA		
J Date	Tin	ne Dep	Dept	Casing h   D	ia 1	nm	Strike	er Standing	From (m)	To (m 15.00	,		m (%) 00	2 ml	lons of po		
NGH									15	15.00	polyme		00	50mr	n standpip	be insta	lled.
20K0															onse zone )m bgl.	- 20.50	Jm to
표 기																	
7.50     x · · · · ·       27     x · · · ·       (·)     x · · · ·       x · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       (·)     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · ·     · · · ·       y · · · · ·     · · · ·       y · · · · ·     · · · ·       y · · · · ·     · · · ·       y · · · · ·     · · · ·       y · · · · ·     · · · · ·       y · · · · · ·     · · · ·       y · · · · · · ·																	
All dim	nensions i	n Client:	Bord na Mo	ona	ľ	Method	l/ Hydi	req				Q	Dril	ler	Logged	By	<u> </u>
	e 1:62.5				I	Plant U	sed				Design		GF			ĔĂ	ľ



[	Project	Derry	add Win	d Farm					Loc	ation					Ι	ORILLH	IOLE	No
		5								Longford						RC	:05	
	Job No			Date 29-	-05-17		Grour	nd Level (		Co-Ordina	0							
		17-LD-	-102	30-	-05-17			47.19	9	E 20	)6,871.	5 N 26	56,208	8.1				
	Engine																2 of	3
		Tobin													R	ev. DRA		1.5
	RU		FAILS						5	STRATA							- AS	nent/
	Depth	TCR (SCR)	(SPT) Fracture	Red'cd Level	Legend	Deptl (Thick-					SCRIP	TION					Geology	strun ckfi
	Date	RQD	Spacing	Level	хо <sup>•</sup> .•.	ness)	Dis	continuit	ies	Det		edium de		Main ht oror	aich h	FOUR	Ğ	R Ba
	10 50										sli	ightly silt	v grave	ellv fin	e and c	coarse		TYCKAYAYAYAYAYAYAYAYAYAYAYAYAYAYAYAYAYAYA
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1 201						[												
		Dri	lling Pro	gress and			Rotarv	Flush				GENE	RAI					
ALL JI	Date	Tir				ater   Standing	From (m)	To (m		Retur	m (%)		REMA					
H RC							25.60	) polyme	r 10	00	2 gal	lons of pol	ydrill u	used.				
SOUG									Resp	n standpip onse zone	- 20.50	Ined. Om to						
18.00       - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25.60</td> <td>)m bgl.</td> <td></td> <td></td>															25.60	)m bgl.		
Image: Second state     Image: Second state       Imag																		
DL AG	All dime me Scale	ensions i etres 1:62.5	III Client:	Bord na Mo	ona	N   F	Method Plant U	l/ Hyc	ireq			Bit H Design	IQ	Drill GF	er	Logged	By EA	Г



Project	Derry	add Win	d Farm					Loca	tion					Ι	ORILLH	IOLE	No
									Longford					_	RC	:05	
Job No		100	Date 29-	-05-17		Grou	nd Level (	· /	Co-Ordina	0							
	17-LD-	-102	30-	-05-17			47.19	9	E 20	06,871	.5 N 26	56,208	8.1			<u> </u>	
Engine																3 of	3
	Tobin													R	ev. DRA	FT	1
RU		FAILS						S	TRATA							- AS	Instrument/ Backfill
Depth	TCR (SCR)	(SPT) Fracture	Red'cd	Legend	Dept (Thick-	h				SCRIP	TION					Geology	Instrume Backfill
Date	RQD	Spacing		2080ma	ness)	Dis	scontinuit	ies	Det		1		Main			Ge	Ins Ba
21.00	67 (-)	NA	24.69	<u>er o or exolor o 'e</u> . d'b' 8' 616 ' 6 10.	-(3.00) 22.5	0				sl qu bo su an lin (c C lig	ery dense ightly silty partz SAN pulders. G ubrounded ad limesto mestone. I <i>continued</i> ore run - 2 ght grey li ngth.	y grave ID with ravel is I fine a one. Co Boulde 21.00m	elly fin h cobb s round nd med bbles a rs are o h to 22.	e and c les and ded to dium o ure of of lime .50m:	coarse l f quartz estone. l No		
22.30			24.09	in the second se		22.	50 - 22.70	0 Joint, sub	vertical dip,	, <u>S</u> 1	rong thin	ly bedd	led lig	nt brov	vnish		
	100	6			-	thic	k greenis	gh, with 0.5 h grey silt s	to 6mm mear,		ey cherty	-		LIMES	STONE.		Ŀ₿:
24.00	(92) 14	9			(3.10)	22. me spa sma	dium spac	0 Discontin ced, locally ing 10 to 12 0.5 to 3mr	closelv		3.00m: be	coming	g grey.				
	100 11 (89) 38						00 - 23.3: pped, roug ck light br 80 - 24.80 pped, roug	5 Joint, sub gh, with 0.5 own silt sm 0 Joint, sub gh, with 0.5	to 1mm lear, open. vertical dip, to 1mm								
25.60		5	21.59		25.6		ck light br	own silt sm	ear, open.								
											H termina struction.		25.60r	n bgl o	n REs		
			gress and			rvatio re Dia		ater			r Flush				GENE		
Date	Tir	ne Dep	oth Dept	Casing h   D		mm	Strike	ater Standing	From (m)	To (m	n) Type	Retur	m (%)	50mr Resp	REMA lons of pol n standpip onse zone )m bgl.	ydrill u e insta	used. lled.
All dime me Scale	ensions i etres 1:62.5	n Client:	Bord na Mo	ona	1 ]	Methoo Plant U	d/ Hyc <sup>Jsed</sup>	lreq			Bit E Design	IQ	Drill GF	er	Logged	By EA	Г