

## **APPENDIX 8-2**

**BOREHOLE LOGS** 

Pe	eterse	en Dri	lling S	Service	es Lt	d.	on be	half of						HES	S						Rotar	y Drillir	ng Log						
Depth of									Sample /	Hole / Te	est Detail	s			Drilling	Details						d Penetra						Ке	vnetix
Stratum Top (m)				er's Stra escriptic				No	Туре	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)
									RO		0.00	24.00		0000		100	grey											0.00	0.00
0.00			Soft to fir	m dark gravel	lly PEAT																								
0.40			Soft	dark brown Pl	ΕΔT						-																		
0.10			Cont																										
3.50			Soft	t grey silty CL	AY																								
10.00																													
13.20	Weak v	ery highly we	eathered LIN	MESTONE ve	ry fracture	ed with clay	infill karst																						
		details			-		1	Dri	_		nent D	etails			1				Dopth	1	round	Water	Reco	ord		Donth	Ba	ckfill (n	<i>`</i>
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC) C	Dia. (mm) 140.00	From (m) 0.00	то (m) 15.70	Barrel	Liner Type	Core Dia (mm)	Bit	Туре	Casing Sim (	g Type Casing	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Туре	From (m)	To (m)
1040				RO	154.00	0.00	15.70				DTH B	utton Bit	0111. 0	Jasing	115	Air	No	1115	13.50	13.50	Fast	1.80	0.00	0.00	0.00	N/S	Collapse	24.00	23.50
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	RO	120.00	15.70	24.00				DTH B	utton Bit				Air	No	-											
	( )	.,	.,																										
1520																													
Time from	Duration (hhmm)	Remark	s or detail	s of any ad	ditional	testing in	formation,	Daywor	ks			SPT I.I	D. Numb	er	PD	01	Calibrat Date		01/02	2/2021	Pro	ject 7	<b>Title</b>						
1040		CAT Scann	ned: Yes									SPT Ro	d Type		23/8 F	Regular	SPT En Ratio	ergy	0.	.00				Clor	oha	ern V	VН		
1040		Permit Con	npleted: Yes	3								Drilling	Crew D	etails					CSC	S No						5111 V	VII		
		General; N	lobilisation t	to site								Suppor	t Opera	tive		J	ohn Why	te			Weathe	er		Var	iable		Project No	21/	/21
1515	0030	Dayworks:	Airlift develo	opment of wel	I							Lead D	riller			Step	bhan Pete	ersen			Date			09/06	6/2021		Day	Wedn	esday
												Site cat	tegory					Green			Rig typ	e		Knebe	el HY79		Borel	ole Num	nber
												Project	Engine	er							Inclina	tion		Orient	ation			BH 1	
												Lead D	riller's s	ignatur	e						Sheet			1	of	1	Comp	leted	Y

Pe	eterse	en Dril	lina S	Service	es Lto	d.	on be	half of						HES	5						Rotary	/ Drillir	na Loa						
Depth of									Sample /	Hole / Te	est Details	3			Drilling	Details						d Penetra						Ke	netix
Stratum Top (m)				er's Strat escriptio				No	Туре	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)
									RO		0.00	24.50		0000		100	grey	,,										0.00	2.20
0.00		S	oft to firm o	lark brown gra	avelly PEA	т																							
0.50			Soft	dark brown PE	EAT																								
3.20			Verv s	oft silty sandy	CLAY																								
				, ,																									
13.30		Soft to fin	m grey CLA	Y possible hig	ghly weath	ered rock																							
	Mediu	m strong beg	omina Stra	ong dark grey l	LIMESTO	VE with occ	asional																						
15.30				eathered joints																									
	Shift o	details						Dri	lling E	quipm	nent De	etails					•			G	round	Water	r Reco	rd			Ba	ckfill (m	ו)
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit	Туре	Casing	д Туре	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Туре	From (m)	To (m)
1250				C RO	140.00 154.00	0.00	17.00					utton Bit	Sim. (	Casing	115	Air	No	1400	15.50	15.50	Fast	2.10	0.00	0.00	0.00	N/S			
Finish time	Hole	Water	Casing	RO	120.00	17.00	17.00 24.50					utton Bit			115	Air	No												
(hhmm)	(m)	(m)	(m)															1											
1705																													
Time from	Duration (hhmm)	Remarks	s or detai	Is of any ad	ditional t	esting inf	formation,	Daywor	ks			SPT I.	). Numb	er	PC	01	Calibrat Date	ion	01/02	2/2021	Proj	ject 7	<b>Fitle</b>						
1250		CAT Scann	ed: Yes									SPT Ro	d Type		2 3/8 R	Regular	SPT En	ergy	0.	.00				~					
1250		Permit Corr	pleted: Ye	6								Drilling	Crew D	etails			Ratio		CSC	S No				Clor	nebe	ern V	VH		
1640	0030	Dayworks:	Airlift devel	opment of well	I							Suppor	t Opera	tive		J	ohn Why	te			Weathe	er		Vari	iable		Project No	21/	21
												Lead D	riller			Step	han Pete	ersen			Date			10/06	6/2021		Day	Thurs	sday
												Site cat	egory					Green			Rig typ	e		Knebe	el HY79		Borel	ole Num	ber
												Project	Engine	er							Inclinat	ion		Orienta	ation			BH 2	
												Lead D	riller's s	ignatur	e						Sheet			1	of	1	Comp	leted	Y

Pe	eterse	en Dril	lling S	Service	es Lt	d.	on bel	half of						HES	S						Rotar	y Drillir	ng Log						
Depth of									Sample /	Hole / Te	est Details	s			Drilling	Details					Standar	d Penetra	tion Test					Kę	metix
Stratum Top (m)				er's Stra escriptic				No	Туре	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)
									RO		0.00	25.00		0000		100	grey											0.00	0.00
0.00			Soft to fi	rm dark brow	n PEAT																								
1.00		Sol	t to firm are	y silty sandy g	aravelly Cl																								
1.00		001	t to min gre	y siny saridy (	graveny O																								
3.50		Firm to stiff (	grey sandy (	gravelly SILT	with occa	sional cobble	е																						
16.50		Very weak	very weathe	ered dark grey	y clayey Ll	MESTONE																							
19.80	M	edium strong	a dark arev l	LIMESTONE	with occas	sional fractu	res																						
			, 9 , -																										
	Shift o	details						Dri	lling E	quipn	nent De	etails								G	round	Water	Reco	rd			Ba	ckfill (n	n)
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit	Туре		g Type	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Туре	From (m)	To (m)
0830				C RO	140.00 154.00	0.00	19.80 19.80				DTH B	utton Bit	Sim. C	Casing	115	Air	No	0930	3.50	3.50	Slow	0.00	0.00	0.00	0.00	5.00			
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	RO	120.00	19.80	25.00				DTH B	utton Bit				Air	No	1135	16.50	16.50	Medium	0.00	0.00	0.00	0.00	N/S			
	()	()	()																										
1305																													
Time from	Duration (hhmm)	Remark	s or detail	s of any ad	ditional	testing inf	formation,	Daywor	ks			SPT I.I	D. Numb	er	PE	01	Calibrat Date		01/02	2/2021	Pro	ject 7	<b>Title</b>						
0830		CAT Scann	ed: Yes									SPT Ro	od Type		2 3/8 F	Regular	SPT En Ratio	ergy	0	.00					h	ern V	лц		
0830		Permit Corr	npleted: Yes	;								Drilling	Crew D	etails			1		CSC	S No	1				iene		VП		
1235	0030	Dayworks:	Airlift develo	opment of wel	I							Suppor	rt Opera	tive		J	ohn Why	te			Weathe	er		Var	iable		Project No	21/	/21
												Lead D	riller			Step	han Pete	ersen			Date			11/06	6/2021		Day	Fric	day
												Site ca	tegory					Green			Rig typ	e		Knebe	el HY79		Borel	nole Num	ber
												Project	Engine	er							Inclina	tion		Orienta	ation			BH 3	
												Lead D	riller's s	ignatur	е						Sheet			1	of	1	Comp	leted	Y

Pe	eterse	en Dril	lling S	Service	es Lt	d.	on beł	half of						HES	S						Rotary	y Drillir	ng Log						
Depth of									Sample /	Hole / Te	est Detail	s			Drilling	g Details						d Penetra						Ke	metix
Stratum Top (m)				er's Stra escriptic				No	Туре	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)
0.00			pe	eaty TOPSOII	-																								
0.80	Medium	n dense grey	silty SAND	AND GRAVE boulders	L with occ	casional cob	bles and																						
3.20		Firm to stiff	very sandy g	gravelly grey S	SILT occa	sional cobbl	e																						
11.30		Stiff dark g	rey CLAY po	ossible highly	weathere	d mudstone																							
14.60			Strong	I grey LIMEST	ONE																								
	Shift o	details						Dri	lling E	quipn	nent D	etails			•		•		•	G	round	Water	r Reco	rd			Ba	ckfill (m	n)
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit	Туре	Casing		Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Туре	From (m)	To (m)
1305				C RO	140.00 154.00	0.00	15.70 15.70				DTH B	utton Bit	Sim. C	Casing	115	Air	No												
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)																										
1535	15.70	Dry	15.70																										
Time from	Duration (hhmm)	Remark	s or detail	s of any ad	ditional	testing in	formation,	Daywor	ks			SPT I.I	D. Numb	er	P	D1	Calibra Date	tion	01/02	2/2021	Pro	ject 7	<b>Fitle</b>						
1305		CAT Scanr	ed: Yes									SPT Ro	od Type		2 3/8 F	Regular	SPT En Ratio	ergy	0.	.00				Clor	hebe	ern V	νн		
1305		Permit Con	npleted: Yes	3									Crew D						CSC	S No			1				Project		
												Suppor Lead D	rt Operat	tive			ohn Why				Weathe Date	ər			ine 5/2021		No Day	21/ Fric	
												Site ca				Sieh		Green			Rig typ	e			el HY79			nole Num	,
												Project	Engine	er			1				Inclina	tion		Orient	ation			BH 4	
												Lead D	riller's s	ignatur	e						Sheet			1	of	2	Comp		Y

Pe	eterse	en Dril	lina S	Service	es Lt	d.	on be	half of						HES	S						Rotary	/ Drillir	ng Log						
Depth of									Sample /	Hole / Te	est Details	3				Details							tion Test					Ke	netix
Stratum Top (m)				er's Strat escriptio				No	Туре	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)
									RO		0.00	30.00		0000	,	100	grey	()										0.00	Dry
	Shift c					1		Dri			nent De	etails	T		1				Depth		round	Water	r Reco	rd		Depth	Ba	ckfill (n	-
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC) RO	Dia. (mm) 120.00	From (m)	To (m) 30.00	Barrel	Liner Type	Core Dia (mm)		туре utton Bit	Casing	д Туре	Bit serial No	Flush Air	Polymer	Time of strike	Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Sealed (m)	Туре	From (m)	To (m)
1015	15.70	12.50	15.70	RU	120.00	15.70	30.00									Alf	No												
Finish time	Hole	Water	Casing																										
(hhmm)	(m)	(m)	(m)																										
1625																		-											
Time from	Duration (hhmm)	Remarks	s or details	s of any ad	ditional	testing inf	formation,	Daywor	ks			SPT I.I	D. Numb	er	PD	D1	Calibrat Date	tion	01/02	2/2021	Proj	ject 7	<b>Fitle</b>						
												SPT Ro	od Type		2 3/8 F	Regular	SPT En Ratio	ergy	0.	.00				Clor	ohc	ern V	/LI		
												Drilling	Crew D	etails					CSC	S No									
												Suppo	rt Opera	tive		J	ohn Why	te			Weathe	er		Vari	able		Project No	21/	21
												Lead D				Step	han Pete				Date				/2021		Day	Mon	
												Site ca						Green			Rig typ			1	el HY79			nole Num	ber
												Project	Engine	er			r				Inclinat	tion		Orienta	ation			BH 4	
												Lead D	riller's s	ignatur	e						Sheet			2	of	2	Comp		Y

Pe	eterse	en Dril	lling S	Service	es Lt	d.	on be	half of						HES	S						Rotar	y Drillir	ng Log						
Depth of								1	Sample /	Hole / Te	est Details	5			Drilling	Details						d Penetra						ке	metix
Stratum Top (m)				er's Stra escriptic				No	Туре	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)
									RO		0.00	11.00		0000		100	grey											0.00	Dry
0.00			Firm	brown TOPS	OIL																								
0.00																													
0.30		Loose	light brown \	very silty sligh	itly gravell	y SAND																						┝───┤	
																												├───┤	
2.90	Stif	f brown verv	sandv grave	elly CLAY hig	h limeston	e cobble co	ntent	<u> </u>																					
				, , , , , , , , , , , , , , , , , , , ,																									
6.00		Wea	k brownish g	grey weathere	ed LIMES	FONE																							
7.60		Strong of	dark grey LI	MESTONE of	ccasional	fractures																							
																												└───┤	
																												┝───┤	
	01.14			1				- Duri																				- 1-6111 (	
Start time	Shift o	details <sub>Water</sub>	Casing	Casing (C) Open Hole (RO)	Dia.	From	То		Liner	Core Dia	nent De				Bit serial			Time of	Depth	G	round			-	1	Depth		ckfill (m	<b>1)</b> то
(hhmm)	(m)	(m)	(m)	Coring (RC)	(mm)	(m)	(m)	Barrel	Туре	(mm)	Bit	Туре	Casing		No	Flush	Polymer	strike	Struck (m)	(m)	Inflow	5 min	10 min	15 min	20 min	Sealed (m)	Туре	(m)	(m)
0910				C RO	140.00 154.00	0.00	8.00 8.00				DTH B	utton Bit	Sim. C	Casing	115	Air	No	1040	2.50	2.50	Very Slow	0.00	0.00	0.00	0.00	3.50			
Finish time	Hole	Water	Casing	RO	120.00	8.00	11.00					utton Bit				Air	No	1055	7.60	7.60	Slow	0.00	0.00	0.00	0.00	N/S			
(hhmm)	(m)	(m)	(m)															1000	7.00	7.00	0.00	0.00	0.00	0.00	0.00	N/O			
1320																		-											
Time from	Duration (hhmm)	Remark	s or detail	s of any ad	ditional	testing in	formation	, Daywor	ks	-	-	SPT I.I	D. Numb	er	PE	D1	Calibrat Date	tion	01/02	2/2021	Pro	ject 7	<b>Title</b>	-	-				
0910		CAT Scann	ed: Yes									SPT Ro	od Type		23/8 F	Regular	SPT En	ergy	0.	.00									
0910		Permit Con	npleted: Yes										Crew D	etails		0	Ratio			S No				Clor	nebe	ern V	VH		
1120	0030	Dayworks:	Airlift develo	pment of wel	I							Suppor	rt Opera	tive		J	ohn Why	te			Weathe	ər		Var	iable		Project No	21/2	21
												Lead D	riller			Step	ohan Pete	ersen			Date			19/05	5/2022		Day	Thurs	sday
												Site cat	tegory					Green			Rig typ	e		Knebe	el HY79		Borel	nole Num	ber
												Project	Engine	er							Inclina	tion		Orienta	ation			BH 5	
												Lead D	riller's s	ignatur	e						Sheet		-	1	of	1	Comp	leted	Y
														J	-		1									· ·			· ·