Contract Name: SWANWORTH QUARRY

Contract No:

Date: WEDNESDAY 16-1-19

Sheet 1 of 1 Working Day 1

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES RYAN DAVIES

Rig Type: KLEMM KR802 S

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
	MOVE RIG TO SITE					BH DRY
	SITE INDUCTION		930/1115			
	MOVE TO BH 3					PHONE HYDROLOGIST AT 6mb 30mm
						PHONE HYDROLOGIST AT 21mb 30mm
	000	020	020		SUB BLASTS	
	020	2.40	2.20		LITE BROWN LIMESTONE	
	2.40	4.40	2.00		LITE BROWN AND GRAY LIMESTONE	
	4.40	18.00	13.60		LIMESTONE	
	18.00	21.00	3.00		GRAY SILTSTONE	
						BH DRY
	STACK BH FOR INSTALLATION					
	STAND RIG FROM 3.pm TO 5pm FOR LORRY MOVE					
	(FILL WATER BOWSERS)					50min

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant 1x DUMPER 27 WATER BOWSERS
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

ACM UKAS

Certificate No: 08750A

Signed by Apex: [signature]

Signed by Client: ..... Date: .....

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: THURSDAY 17-1-19

Sheet 1 of 1 Working Day 2

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES RYAN DAVIES

Rig Type: KLEMM KR 8

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
	MOVE RIG BY LORRY TO NEXT BH 8 AM TO 8.45 AM					
MOVED TO BH PZ1/18						
	000	0.30	0.30		TOPSOIL	
	0.30	2.10	1.80		BROKEN LIMESTONE CLAY BOULDERS	
	2.10	16.10	14.00		BOULDER CLAY	
	16.10	16.50	0.40		LIMESTONE	
	CASE BH TO 16.50 m				WITH STEEL	BH DRY
					CORE FROM 16.50 WITH 4.12" WITH LINER.	
BH 1	16.50	17.50	1.00	0.70	LIMESTONE	
BH 2	17.50	19.00	1.50	1.50	LIMESTONE	
BH 3	19.00	20.50	1.50	1.50	LIMESTONE	
BH 4	20.50	22.00	1.50	1.50	LIMESTONE WITH CLAY BAND	
BH 5	22.00	23.50	1.50	1.40	CLAY LIMESTONE	
BH 6	23.50	25.00	1.50	1.50	LIMESTONE	(WATER LOSS)
BH 7	25.00	26.50	1.50	1.50	LIMESTONE	
	BH WET AT 23.50 m				MONE HYDROLOGIST 30 MIN INSTRUCTION TO DRILL ON.	

INSTALLATION DETAILS

Borehole

Diameter Ø

Well Casing m

Well Screen m

Gravel m

Bentonite m

Gas Bung (No)

End Cap (No)

Cover Type RAISED / FLUSH

Water Level m

Remarks

DIP BH END OF SHIFT WET AT 24.70 m

QUANTITIES

Site Moves (No)	Casing m	Core Boxes (No)	Fixed Plant
Bore Moves (No)	Open Hole m	Core Liner m	
Return Moves (No)	W. Samples m	SPT/CPT (No)	Standing Times (hrs)
Security YES / NO	Coring m	Installation m	Breakdown (hrs)

BRITISH DRILLING ASSOCIATION

ICM UKAS

Certificate No: 08750A

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Signed by Client

Date

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: FRIDAY 18-1-19

Sheet 1 of 1 Working Day 3

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES RYAN DAVIES

Rig Type: KLEMM KR802 S

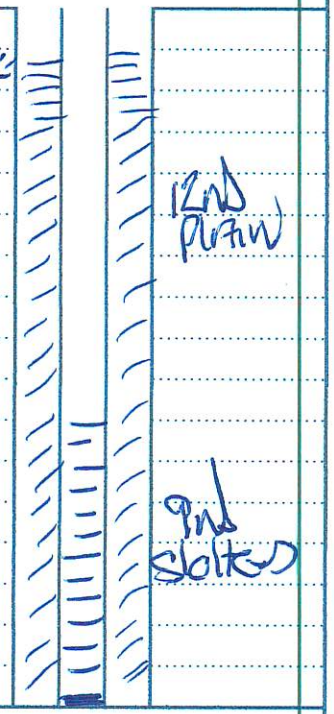
Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
	BH PZ1	CON				BH DRY
RH 8	26.50	28.00	1.50	1.50	LIMESTONE	(NO RETURNS)
RH 9	28.00	28.60	0.60	0.60	LIMESTONE	
RH 10	28.60	30.10	1.50	0.70	LIMESTONE CLAY BANDS	
RH 11	30.10	30.50	0.40	0.40	LIMESTONE BROKEN	
RH 12	30.50	30.70	0.20	0.20	LIMESTONE BROKEN	
RH 13	30.70	31.70	1.00	0.60	LIMESTONE BROKEN	

INSTALL PIEZO ON BH PZ3/18

INSTALL PIEZO TO 21.00m WITH 9m OF SLOTTED WITH GEOTAP 12m OF PLAIN GRAVEL FILTER BACK TO 1.50m BENTONITE SEAL BACK TO 0.20m CONCRETE & RAISED COVER.

INSTALLATION DETAILS

Borehole



Diameter ... Ø
Well Casing ... m
Well Screen ... m
Gravel ... m
Bentonite ... m
Gas Bung ... (No)
End Cap ... (No)
Cover Type RAISED / FLUSH
Water Level ... m
Remarks ...

QUANTITIES

Site Moves ... (No)	Casing ... m	Core Boxes ... (No)	Fixed Plant ...
Bore Moves ... (No)	Open Hole ... m	Core Liner ... m	
Return Moves ... (No)	W. Samples ... m	SPT/CPT ... (No)	Standing Times ... (hrs)
Security YES / NO	Coring ... m	Installation ... m	Breakdown ... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: MONDAY 21-1-19

Sheet 1 of 1 Working Day 4

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRS

Order No:

Drill Crew: NEIL DAVIES NEIL EDWARDS

Rig Type: KLEMM KR800

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH P21 COM						
Rn14	31.70	33.20	1.50	0.90	LIMESTONE SOFT BANDS	BH DRY (NO RETURNS)
Rn15	33.20	34.70	1.50	1.50	LIMESTONE	
Rn16	34.70	36.20	1.50	0.50	LIMESTONE SOFT BANDS	
Rn17	36.20	37.70	1.50	1.50	LIMESTONE	
Rn18	37.70	39.20	1.50	1.50	LIMESTONE	
Rn19	39.20	40.70	1.50	1.50	LIMESTONE	
	PHONE HYDROLOGIST (AFTER RUN 16) INSTRUCTED TO					
			CORE ON.			BH DRY

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SWANWOOD QUARRY

Contract No:

Date: TUESDAY 22-1-19

Sheet 1 of 1 Working Day 5

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL OATES / NEIL EDWARDS

Rig Type: KLEMM KR802-5

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH RZ1-18C01						BH DRY
Run 20	40.70	42.20	1.50	1.50	SANDSTONE	
Run 21	42.20	43.70	1.50	1.50	SANDSTONE	
Run 22	43.70	45.20	1.50	0.90	SANDSTONE SOFT BANDS	
(fill water Bowser.					45min)	
Run 23	45.20	46.70	1.50	1.50	SANDSTONE	
Run 24	46.70	48.20	1.50	1.50	SANDSTONE SILTSTONE	
Run 25	48.20	49.70	1.50	1.50	SANDSTONE SILTSTONE	

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

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Contract Name: SANDWORTH QUARRY

Contract No:

Date: WEDNESDAY 23-1-19

Sheet: 1 of 2 Working Day: 5

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

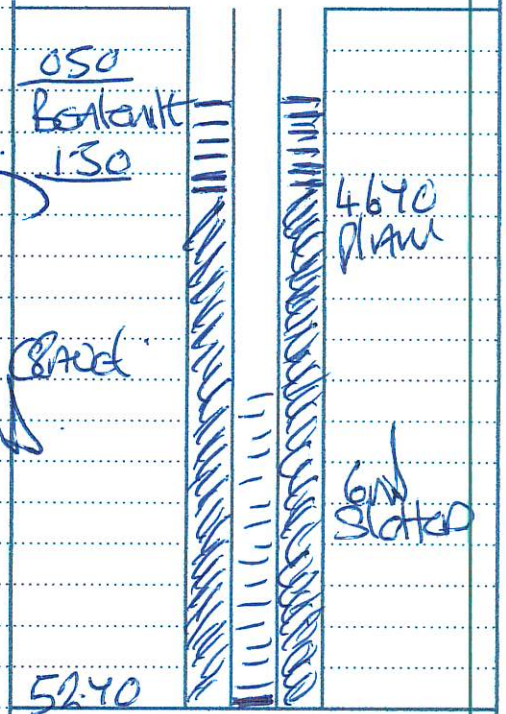
Drill Crew: NEIL DAVIES NEIL EDWARDS

Rig Type: PLEMM RS02 E

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH RZ1/18 CON.					(UNABLE TO DIP BH DUE TO BROKEN GROUND IN BH)	
RM26	4.70	5.20	1.50	1.50	SANDSTONE	
RM27	5.20	5.70	1.50	1.40	(FILL WATER BOWSER 45min) SANDSTONE MUDSTONE	
					DIP BH WET AT 41.30	
					INSTALL SCREW PIPED TO 52.70m. 6m of slotted well screen ENDCAP AND 4.67m of PLAIN GRAVEL (FILL BACK TO 4.50m) WITH BENTONITE SEAL BACK TO 0.50m. WITH 1 RAISED COVER.	
					BH COMPLETE	
					CORE BOXES BACK IN QUARRY	

INSTALLATION DETAILS

Borehole



Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves	(No)	Casing	m	Core Boxes	(No)	Fixed Plant	
Bore Moves	(No)	Open Hole	m	Core Liner	m		
Return Moves	(No)	W. Samples	m	SPT/CPT	(No)	Standing Times	(hrs)
Security YES / NO		Coring	m	Installation	m	Breakdown	(hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SANDWORTH QUARRY

Contract No:

Date: WEDNESDAY 23-1-19

Sheet 2 of 2 Working Day 6

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES NEIL EDWARDS

Rig Type: KLEMM KR802 S

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
	MOVE RIG AND PLANT TO NEXT BH POSITION 45MIN					
MOVE TO BH	12/2/18 CASE BH TO 5.00M					
	0.00	2.90	2.90		BOULDER CLAY	
	2.90	4.50	1.60		BOULDER CLAY LIMESTONE BOULDERS	
RH1	4.50	5.00	0.50		LIMESTONE CLAY BOULDERS	
	ADVANCE CASING TO 5.00M					
RH2	5.00	6.50	1.50	1.40	LIMESTONE CLAY BANDS	
RH3	6.50	8.00	1.50	1.00	LIMESTO CLAY BANDS	
	ADVANCE CASING TO 6.00M					BAD RY

INSTALLATION DETAILS

Borehole

Diameter ... Ø
Well Casing ... m
Well Screen ... m
Gravel ... m
Bentonite ... m
Gas Bung ... (No)
End Cap ... (No)
Cover Type RAISED / FLUSH
Water Level ... m
Remarks ...

QUANTITIES

Site Moves ... (No)	Casing ... m	Core Boxes ... (No)	Fixed Plant ...
Bore Moves ... (No)	Open Hole ... m	Core Liner ... m	
Return Moves ... (No)	W. Samples ... m	SPT/CPT ... (No)	Standing Times ... (hrs)
Security YES / NO	Coring ... m	Installation ... m	Breakdown ... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 09750A

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Contract Name: Swanworth Quarry

Contract No:

Date: Thursday 24-1-19

Sheet 1 of 1 Working Day: 7

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: Settle Stone Quarrys

Order No:

Drill Crew: Neil Dauks Neil Edwards

Rig Type: Klem KL502 E

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH: CONPZ 2/18						Dip BH Dry
RH4	8-00	9-00	1-00	1-00	Limestone	
RH5	9-00	10-50	1-50	1-50	Limestone	No Returns
	Advance casing to 10-50m					
RH6	10-50	12-00	1-50	1-50	Limestone Fill water Bowser 45mm	
RH7	12-00	13-50	1-50	1-50	Limestone	
RH8	13-50	15-00	1-50	1-30	Limestone	
RH9	15-00	16-50	1-50	1-10	Limestone Clay Bands	
RH10	16-50	18-00	1-50	1-10	Limestone Clay Bands	
		Stand Pe2 30mm, BH Dry				
OH	18-00	23-70	5-70		Limestone Clay Bands	
	23-70	30-00	6-30		Sandstone	

INSTALLATION DETAILS

Borehole

Diameter: Ø

Well Casing: m

Well Screen: m

Gravel: m

Bentonite: m

Gas Bung: (No)

End Cap: (No)

Cover Type: RAISED / FLUSH

Water Level: m

Remarks:

QUANTITIES

Site Moves: (No)	Casing: m	Core Boxes: (No)	Fixed Plant:
Bore Moves: (No)	Open Hole: m	Core Liner: m	
Return Moves: (No)	W. Samples: m	SPT/CPT: (No)	Standing Times: (hrs)
Security YES / NO	Coring: m	Installation: m	Breakdown: (hrs)

British Drilling Association

Certificate No: 08750A

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Signed by Client: Date:

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Contract Name: Swanworth Quarry

Contract No:

Date: Friday 25-1-19

Sheet 1 of 1 Working Day 8

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: Suttle Stone Quarrys

Order No:

Drill Crew: Neil Davies Neil Edwards

Rig Type: Klemm KR802

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH PZ 2/18 con't						Dip BH Dry
on	30.00	38.50	8.50		Possible sandstone	(No Returns)
	38.50	52.00	13.50		Possible siltstone	
(Pull out 16nos of Rods)						
					Rods stuck in BH	
					Fill water barrel.	45min

INSTALLATION DETAILS

Borehole

Diameter ... Ø
Well Casing ... m
Well Screen ... m
Gravel ... m
Bentonite ... m
Gas Bung ... (No)
End Cap ... (No)
Cover Type RAISED / FLUSH
Water Level ... m
Remarks ...

QUANTITIES

Site Moves ... (No)	Casing ... m	Core Boxes ... (No)	Fixed Plant ...
Bore Moves ... (No)	Open Hole ... m	Core Liner ... m	
Return Moves ... (No)	W. Samples ... m	SPT/CPT ... (No)	Standing Times ... (hrs)
Security YES / NO	Coring ... m	Installation ... m	Breakdown ... (hrs)

British Drilling Association — Certificate No: 08750A

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: MONDAY 28-1-19

Sheet 1 of 1 Working Day 9

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: Nal DAVIES KYLE GRAM

Rig Type: KLEMM KR802

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH12	218 cm					
	RODS	STUCK	IN BH			

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant 1 x DUMPER 2 x WATER BOWSERS
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: TUESDAY 29-1-19

Sheet 1 of 1 Working Day 10

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTON STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES KYLE OBRIAN.

Rig Type: KLEMM KR802 - 5

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH12	2/18	CON				
	ROOS	STUCK IN BH.				

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: WEDNESDAY 30-1-19

Sheet 1 of 2 Working Day 11

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUTTIE STONE QUARRYS

Order No:

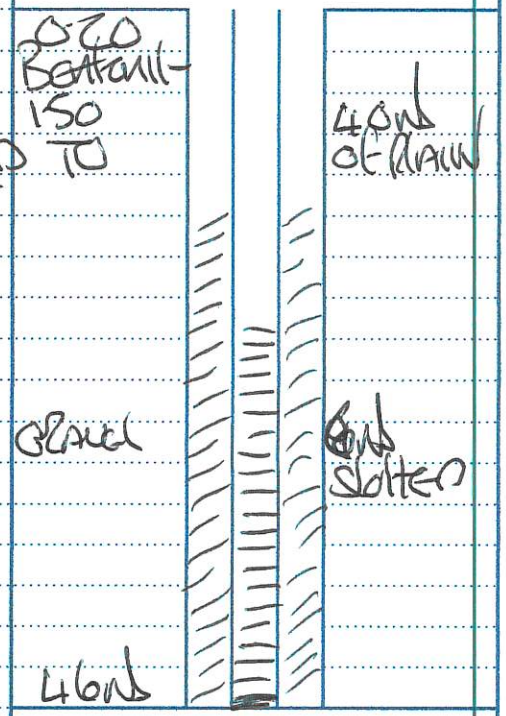
Drill Crew: NEIL DAVIES KYLE GRAHAM.

Rig Type:

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH12215004						
	PULL OUT DRILL RODS					
	CLEAN OUT BH TO 52.50MD					
	INSTALL SAMPLE TO 46.00MD.				PHONE HYDROLOGIST - INSTRUCTED INSTALL RISER TO 46MD	
	6MD OF SLOTTED AND 40MD OF BLANK WITH GEOCAP END CAP GRAVEL AND BENTONITE SEAL, PASSCOAT.					
				BH COMPLETE		

INSTALLATION DETAILS

Borehole



Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Signed by Client ..... Date .....

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Contract Name: SWANWORTH QUARRYS

Contract No:

Date: WEDNESDAY 30-1-19

Sheet: 2 of 2 Working Day: 11

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUTTIE STONE QUARRYS

Order No:

Drill Crew: NALOATUED KYLE OBAN

Rig Type: MEMM KLEA 8

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
	MOVE RIG TO BH			230PM TO 345PMM		
	PZS/18					
	CASE BH TO 3.00MB					
	000	040	040		TOPSOIL	
	040	190	150		BOULDER CLAY	
	190	300	1-10		WEATHERED LIMESTONE CLAY BANDS	
						BH DRY
	FILL WATER BOWESER 45MIN					

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Signed by Client ..... Date .....

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Contract Name: SWANWORTH QUARRY

Contract No:

Date: THURSDAY 31-1-19

Sheet 2 of 2 Working Day 12

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NALDANCE, KYLE GRAHAM

Rig Type: KLEMM KR802 8

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
P25	18.00					BH DRY
Run 1	3.00	4.50	1.50	1.50	LIMESTONE	
Run 2	4.50	6.00	1.50	1.50	LIMESTONE	
Run 3	6.00	7.50	1.50	1.50	LIMESTONE	
Run 4	7.50	9.00	1.50	1.50	LIMESTONE	
Run 5	9.00	10.30	1.30	1.30	LIMESTONE	
Run 6	10.30	11.80	1.50	1.50	LIMESTONE	
Run 7	11.80	13.30	1.50	1.50	LIMESTONE	
Run 8	13.30	14.80	1.50	1.50	LIMESTONE	
	Fill WATER Borehole				45mm.	

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745.

Date: FRIDAY 1.2-19

Sheet 1 of 1 Working Day 13

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES KYLE OPRAM

Rig Type: KLEMM KR802

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
PZ5/18CON						BH DRY
RH9	16.80	16.30	1.50	1.50	LIMESTONE	
RH10	16.30	17.80	1.50	1.50	LIMESTONE	
RH11	17.80	19.30	1.50	1.50	LIMESTONE	
RH12	19.30	20.80	1.50	1.50	LIMESTONE	
RH13	20.80	22.00	1.20	1.20	LIMESTONE	
RH14	22.00	23.50	1.50	1.50	LIMESTONE	

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant: DUMPER
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	2x WATER BOWSERS.
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745.

Date: Monday 4-2-19.

Sheet 1 of 1 Working Day 14

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTON STONE QUARRYS

Order No:

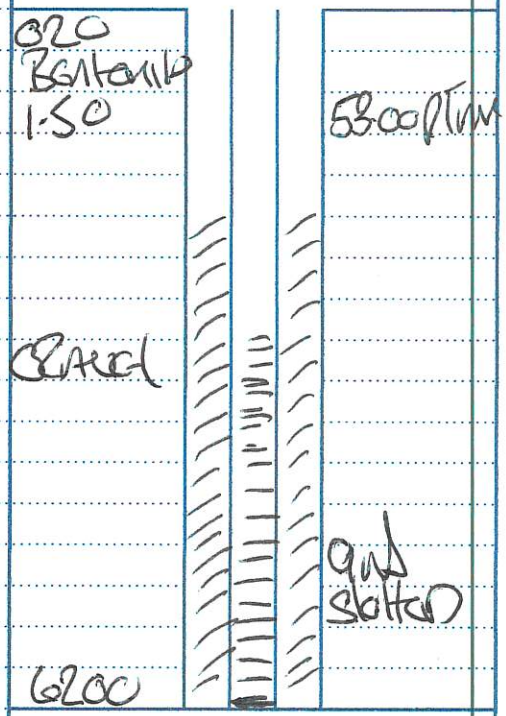
Drill Crew: Neil Davies Kyle Oram

Rig Type: Klemm KR802

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
PZ5/18 cont						BH dry
BH15	23.50	25.00	1.50	1.00	Limestone Shale Bands	
open hole						
	25.00	30.00	5.00		Limestone with bands of Shale (No Returns)	
	30.00	45.00	15.00		Possable Sandstone No Returns	
	45.00	52.00	8.00		Possable Siltstone No Returns	
	Phone Hydrologist instructed to drill to 62.00m					
	Unable to dip BH to depth due to BH condition					
	instructed to install PICZ0 to 62.00m					
	9m of slotted 53.00m of plain					
	BH complete					

INSTALLATION DETAILS

Borehole



Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

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Certificate No: 08750A

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745.

Date: TUESDAY 5-2-19

Sheet 1 of 1 Working Day 15

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NALDRAKES KYLE CRAIG

Rig Type: KLEMM KR802.8

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
---	---	---		---	---	---
MOVE TO BH	1224/18		CASE TO 6.00M			BH DRY
	000	070	070		TOPSOIL	
	070	570	500		BOULDERS AND CLAY	
	570	600	030		LIMESTONE	
BH1	600	7.50	1.50	070	LIMESTONE WITH CLAY BANDS	
BH2	750	8.50	1.00	0.90	LIMESTONE	
BH3	8.50	9.40	0.90	0.90	LIMESTONE	
BH4	940	1090	1.50	1.50	LIMESTONE	
BH5	1090	11.40	1.50	1.10	LIMESTONE	
BH6	1140	1150	0.10	0.10	LIMESTONE	
BH7	1150	1300	150	070	LIMESTONE WITH CLAY BANDS	
BH8	1300	1450	1.50	1.50	LIMESTONE	BH DRY
BH9	1450	1600	1.50	1.50	LIMESTONE	

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

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Contract Name: Swanworth Quarrys

Contract No: 11745.

Date: Wednesday 4-2-19

Sheet 1 of 1 Working Day 16

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: Suttle Stone Quarrys

Order No:

Drill Crew: Nalcatures Kyle O'Grady

Rig Type: Klemm KR 805

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH PZ4/18 Con						BH Dry
RH10	16.00	17.50	1.50		Limestone	
RH11	17.50	17.90	0.40		Limestone	
RH12	17.90	18.00	0.10		Limestone · Bit stopped cutting	
				MOB	New Bit	
RH13	18.00	19.50	1.50		Limestone	BH Dry

INSTALLATION DETAILS

Borehole

Diameter ..... Ø

Well Casing ..... m

Well Screen ..... m

Gravel ..... m

Bentonite ..... m

Gas Bung ..... (No)

End Cap ..... (No)

Cover Type RAISED / FLUSH

Water Level ..... m

Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

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Certificate No: 08750A

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745.

Date: THURSDAY 7-2-19

Sheet 1 of 2 Working Day 17

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NATHANIEL KYLE-OLAN

Rig Type: KLEMM KR802

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
P24-18 CON						BH DRY
RH14	19.50	20.80	1.30	1.30	LIMESTONE	
RH15	20.80	22.00	1.20	1.20	LIMESTONE	
RH16	22.00	23.40	1.40	1.40	LIMESTONE	
RH17	23.40	24.40	1.00	1.00	LIMESTONE BANDED	
OPEN HOLE	FROM	24.40 m				
	24.40	27.10	2.70		BROKEN LIMESTONE	(PARTIAL RETURNS)
	27.10	30.00	2.90		VOID NO RETURNS	
					UNABLE TO DRILL ON	
	PHONE HYDROLOGIST - INSTRUCTED TO MOVE BH					125rpm TO 120rpm
	PULL CASING AND BACKFILL BH					

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745

Date: THURSDAY 8-2-19

Sheet 2 of 2 Working Day 17

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149
E-mail: admin@apex-drilling.com

Client: SUFFIG STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES KYLE OLIVER

Rig Type: KLEMM KR20 S.

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
MOVE RIG	6MIB TO	BH			PZ4 A/IE	
	CASE BH TO 6mb.					BH DRY
	0.00	0.40	0.40		TOPSOIL	
	0.40	5.90	5.50		BOULDERS AND CLAY	
	5.90	6.00	0.10		LIMESTONE	
OPEN HOLE						
	6.00	9.00	3.00		BROKEN LIMESTONE	(NoLeakers)
	ADVANCE CASING TO 9.00mb.					
OPEN HOLE						
	9.00	13.10	4.10		LIMESTONE	
	13.10	13.70	0.60		BROKEN LIMESTONE	(NoLeakers)
	13.70	21.00	7.30		LIMESTONE	(NoLeakers)
	RODS STUCK IN BROKEN LIMESTONE					(AirMist)
	INSTRUCTED TO MOVE BH					

INSTALLATION DETAILS

Borehole

Diameter ... Ø
Well Casing ... m
Well Screen ... m
Gravel ... m
Bentonite ... m
Gas Bung ... (No)
End Cap ... (No)
Cover Type RAISED / FLUSH
Water Level ... m
Remarks ...

QUANTITIES

Site Moves ... (No)	Casing ... m	Core Boxes ... (No)	Fixed Plant ...
Bore Moves ... (No)	Open Hole ... m	Core Liner ... m	
Return Moves ... (No)	W. Samples ... m	SPT/CPT ... (No)	Standing Times ... (hrs)
Security YES / NO	Coring ... m	Installation ... m	Breakdown ... (hrs)

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Contract Name: SWINDERBY QUARRYS

Contract No: 11745.

Date: Friday 8.2.19

Sheet 1 of 1 Working Day 18

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: Neil Davies Kyle Gray

Rig Type: Klemm KR802 S.

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH PZ4A/18 COM						
Pull casing Backfill BH (BH complete)						
Move Rig to BH PZ4B/18 (45 min)						BH Dry
Case BH to 3.00m						
	0.00	0.50	0.50		Topsoil	
	0.50	3.00	2.50		Boulder and clay	
BH1	3.00	4.50	1.50	1.40	Limestone	
BH2	4.50	6.00	1.50	1.50	Limestone	Hard Bands
BH3	6.00	6.50	0.50	0.50	Limestone	
BH4	6.50	7.50	1.00	1.10	Limestone	
BH5	7.50	9.00	1.50	1.00	Limestone Soft Bands	(Poor Returns)
BH6	9.00	10.00	1.00	0.50	Limestone	
BH7	10.00	10.50	0.50	0.40	Limestone	
						BH Dry

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: Swanscombe Quarrys

Contract No: 11745

Date: Monday 11-2-19

Sheet 1 of 1 Working Day 19

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: Suttle Stone Quarrys

Order No:

Drill Crew: Nolan Kyle Oliam

Rig Type: Klemm Klem

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH P24B	15cm					BH Dry
RH8	10.50	12.00	1.50	1.50	Limestone	
RH9	12.00	13.50	1.50	1.50	Limestone	
RH10	13.50	15.00	1.50	1.50	Limestone	
RH11	15.00	16.50	1.50	1.50	Limestone	
RH12	16.50	18.00	1.50	1.30	Limestone	
RH13	18.00	19.50	1.50	1.50	Limestone	
RH14	19.50	20.50	1.00	1.00	Limestone Hard bands.	
						BH Dry

INSTALLATION DETAILS

Borehole

Diameter ... Ø
Well Casing ... m
Well Screen ... m
Gravel ... m
Bentonite ... m
Gas Bung ... (No)
End Cap ... (No)
Cover Type RAISED / FLUSH
Water Level ... m
Remarks ...

QUANTITIES

Site Moves ... (No)	Casing ... m	Core Boxes ... (No)	Fixed Plant ...
Bore Moves ... (No)	Open Hole ... m	Core Liner ... m	
Return Moves ... (No)	W. Samples ... m	SPT/CPT ... (No)	Standing Times ... (hrs)
Security YES / NO	Coring ... m	Installation ... m	Breakdown ... (hrs)

British Drilling Association

Certificate No: 08750A

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745

Date: TUESDAY 12.2.19

Sheet 1 of 1 Working Day: 20

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLE STONE QUARRYS

Order No:

Drill Crew: NEIL DAVIES KYLE GRAY

Rig Type: KLEMM KR802 X

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
	BH 124 BIS					
RH 15	20.50	21.50	1.00	0.90	LIMESTONE WITH HARD BANDS	(BH DRY)
RH 16	21.50	22.00	0.50	0.30	HARD LIMESTONE	
OPEN HOLE						
	22.00	23.10	1.10		(HARD LIMESTONE)	
	23.10	26.40	3.30		BANDED LIMESTONE	
	26.40	30.00	3.60		SOFT BANDS (POOR RETURNS)	
	30.00	40.20	10.20		POSSIBLE SANDSTONE SILTSTONE BANDS	
	40.20	60.00	19.80		SILTSTONE (FULL RETURNS)	
		PHONE HYDROLOGIST			INSTRUCTED TO DRILL ON	(BH DRY)
	60.00	112.00	52.00		SILTSTONE HARD BANDS	
		PHONE HYDROLOGIST			INSTRUCTED TO INSTALL	
			PULL RODS			

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

Certificate No: 08750A

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Contract Name: SWANWORTH QUARRYS

Contract No: 11745.

Date: WEDNESDAY 13-2-19.

Sheet 1 of 2 Working Day 21

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: SUTTLESTONE QUARRYS

Order No:

Drill Crew: NEIL JONES KYLE GRAHAM

Rig Type: KLEMM KR802-5.

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
BH PR4B/18 CONT						D/P BH 62.10m
	INSTALL PICZO TO 112.00m 9m18 of slotted 103.00 PLAIN					
		TOTAL CORE BOXES USED 39 + CORE LINER				
		(1x 30m D.P METER)				

INSTALLATION DETAILS

Borehole

Diameter ..... Ø
Well Casing ..... m
Well Screen ..... m
Gravel ..... m
Bentonite ..... m
Gas Bung ..... (No)
End Cap ..... (No)
Cover Type RAISED / FLUSH
Water Level ..... m
Remarks .....

QUANTITIES

Site Moves ..... (No)	Casing ..... m	Core Boxes ..... (No)	Fixed Plant .....
Bore Moves ..... (No)	Open Hole ..... m	Core Liner ..... m	
Return Moves ..... (No)	W. Samples ..... m	SPT/CPT ..... (No)	Standing Times ..... (hrs)
Security YES / NO	Coring ..... m	Installation ..... m	Breakdown ..... (hrs)

BRITISH DRILLING ASSOCIATION

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Contract Name: Swanwick Quarrys

Contract No: 11745

Date: Wednesday 13-2-19 21

Sheet 2 of 2 Working Day 21

APEX DRILLING SERVICES

DAILY DRILLING LOG

Tel: 01656 749149

E-mail: admin@apex-drilling.com

Client: Solite Stone Quarrys

Order No:

Drill Crew: Neil Davies Kyle Crane

Rig Type: Klem Kobra 8

Bore Hole	Top Depth	Base Depth	Thickness	Recovery	Strata Description	Standing Time — Reason
Move to		Probe Hole -			Case 2nd	
BH 8						
	0.00	0.60	0.60		Topsoil	BH Dry
	0.60	2.10	1.50		Gravel clay	
	2.10	3.50	1.40		Limestone	
BH 9		Case 5m			Backfill BH with spoil	BH Dry
	0.00	0.80	0.80		Topsoil	
	0.80	3.10	2.30		Boulder clay	
	3.10	5.90	2.80		Gravel clay	
	5.90	7.00	1.10		Limestone	
BH 7		Case 2.00m			Backfill BH with spoil	
	0.00	1.90	1.90		Gravel clay	BH Dry
	1.90	2.80	0.90		Weathered limestone	
	2.80	4.00	1.10		Limestone	
BH 6					Backfill with spoil	
	0.00	0.30	0.30		Topsoil	BH Dry
	0.30	4.00	3.70		Limestone	
					Backfill BH with spoil	
					Site complete	

INSTALLATION DETAILS

Borehole

Diameter ... Ø
Well Casing ... m
Well Screen ... m
Gravel ... m
Bentonite ... m
Gas Bung ... (No)
End Cap ... (No)
Cover Type RAISED / FLUSH
Water Level ... m
Remarks

QUANTITIES

Site Moves ... (No)	Casing ... m	Core Boxes ... (No)	Fixed Plant
Bore Moves ... (No)	Open Hole ... m	Core Liner ... m	
Return Moves ... (No)	W. Samples ... m	SPT/CPT ... (No)	Standing Times ... (hrs)
Security YES / NO	Coring ... m	Installation ... m	Breakdown ... (hrs)

British Drilling Association

Certificate No: 08750A

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