



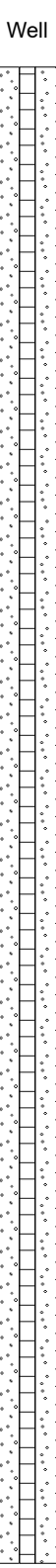
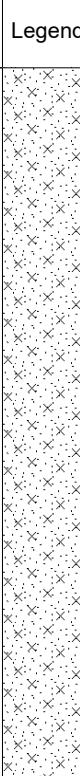
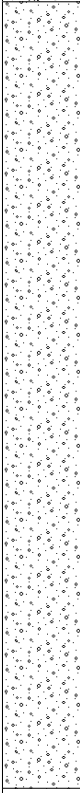
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
1		1.20 - 1.70 1.20	B SPT	N=20 (3,3/5,5,5,5)	1.20			Pre-dug backfilled hand-dug pit	1
		1.90 2.00 - 2.50 2.00	D B SPT	N=22 (3,4/5,6,5,6)				Dense dark brown/orange brown silty sands coarse bands/lenses	2
		2.90 3.00 - 3.50 3.00	D B SPT	N=18 (3,3/4,3,5,6)					3
		3.90 4.00 - 4.50 4.00	D B SPT	N=12 (2,2/3,3,3,3)	4.00			Dense dark brown/orange brown silty sands coarse bands/lenses with coal fragment bands throughout.	4
		4.90 5.00 - 5.50 5.00	D B SPT	N=20 (3,3/4,5,5,6)					5
		6.00	D						6
		6.50 - 7.00 6.50	B SPT	N=12 (2,3/3,3,3,3)					7
		7.50	D						
		8.00 - 8.50 8.00	B SPT	N=17 (1,3/4,4,4,5)					8
		9.00	D						9
		9.50 - 10.00 9.50	B SPT	N=18 (3,3/4,4,4,6)					10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	18.00	250	28.70		01:00					
23.00	250	26.50	200	24.60	24.80	01:30					
29.00	200	29.00	150	28.00	28.30	01:00					
55.00	150			28.30	28.70	01:00					

Service avoidance pit to 1.2m depth by others (backfilled).
Variable (Falling) Head Permeability test at 1.2m depth.
Changed to rotary openhole at 29.00m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.





Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
		10.50	D	0 (./,.,,)	14.80			Dense dark brown/orange brown silty sands coarse bands/lenses with coal fragment bands throughout.	-					
		11.00 - 12.30 11.00	B SPT						11					
		12.30 - 12.80 12.30	B SPT						N=20 (3,3/3,5,5,7)	12				
		13.50	D	N=22 (3,3/3,6,6,7)							Dense small to medium sized gravels, rounded, sub + angular + flat with gritty brown coarse sand.	13		
		14.00 - 14.50 14.00	B SPT						14					
		15.00	D						15					
		15.50 - 16.00 15.50	B SPT	N=27 (2,3/5,7,7,8)										16
		16.50	D	N=29 (3,4/4,7,8,10)										17
		17.00 - 17.50 17.00	B SPT											18
		18.00	D											19
		18.50 - 19.00 18.50	B SPT	N=22 (2,2/3,3,8,8)										20
		19.50	D											
20.00 - 20.50	B													

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	18.00	250	28.70		01:00					
23.00	250	26.50	200	24.60	24.80	01:30					
29.00	200	29.00	150	28.00	28.30	01:00					
55.00	150			28.30	28.70	01:00					

Service avoidance pit to 1.2m depth by others (backfilled).
Variable (Falling) Head Permeability test at 1.2m depth.
Changed to rotary openhole at 29.00m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.





CABLE-TOOL PERCUSSIVE BOREHOLE into ROTARY OPENHOLE LOG

Project Name: Pilsworth Quarry		Client:		Date(s): 19/02/2024 to 04/03/2024	
Location:		Contractor:			
Project No. : 10219		Crew Name:		Plant: Cable-tool Percussive Rig (Dando 175/4) to 29.50m Rotary Rig (Comacchio Geo 205/3) to base	
Borehole Number CP01	Hole Type CP+RO	Level	Logged By R.Farley (CP Foreman) SS (Rotary Foreman)	Scale 1:50	Page Number Sheet 3 of 6

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	SPT	N=9 (2,1/1,2,3,3)	20.25			Dense small to medium sized gravels, rounded, sub + angular + flat with gritty brown coarse sand. Soft grey silty sandy clay occasional large cobble.	
		21.00	D						21
		21.50 - 22.00	B SPT	N=8 (1,2/2,2,2,2)					22
		21.50							
		22.50	D						23
		23.00 - 23.50	B SPT	N=13 (2,2/2,3,4,4)	23.45			Soft grey brown silty sandy clay, silty.	
		23.00							24
		24.00	D		24.20			Very stiff brown sandy boulder clay - large sandstone cobble.	
		24.50 - 25.00	B SPT	N=50 (4,7/10,11,12,17)					25
		24.50							
		25.50	D						26
		26.00 - 26.50	B SPT	N=50 (4,6/10,12,13,15)					27
		26.00							
		27.00	D						28
		27.50 - 28.00	B SPT	50 (9,11/50 for 150mm)					
		27.50							
		28.00 - 28.30	B		28.30			Very stiff grey clay/mudstone.	
		28.30 - 28.70	B SPT	50 (10,14/50 for 180mm)					29
		28.30							
		28.70	SPT	50 (10,15/50 for 150mm)	29.00			Mudstone grey weathered	
									30

Hole Diameter		Casing Diameter		Chiselling			Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	18.00	250	28.70		01:00					
23.00	250	26.50	200	24.60	24.80	01:30					
29.00	200	29.00	150	28.00	28.30	01:00					
55.00	150			28.30	28.70	01:00					

Remarks Service avoidance pit to 1.2m depth by others (backfilled). Variable (Falling) Head Permeability test at 1.2m depth. Changed to rotary openhole at 29.00m depth. Rotary casing installed and borehole casing withdrawn. Well with 63mm diameter monitoring pipe installed to 23.0m depth.											
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[illegible]

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	18.00	250	28.70		01:00					
23.00	250	26.50	200	24.60	24.80	01:30					
29.00	200	29.00	150	28.00	28.30	01:00					
55.00	150			28.30	28.70	01:00					

Service avoidance pit to 1.2m depth by others (backfilled).
Variable (Falling) Head Permeability test at 1.2m depth.
Changed to rotary openhole at 29.00m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.



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Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	18.00	250	28.70		01:00					
23.00	250	26.50	200	24.60	24.80	01:30					
29.00	200	29.00	150	28.00	28.30	01:00					
55.00	150			28.30	28.70	01:00					

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Well with 63mm diameter monitoring pipe installed to 23.0m depth.



[illegible]

Remarks	
Service avoidance pit to 1.2m depth by others (backfilled).	
Variable (Falling) Head Permeability test at 1.2m depth.	
Changed to rotary openhole at 29.00m depth. Rotary casing installed and borehole casing withdrawn.	
Well with 63mm diameter monitoring pipe installed to 23.0m depth.	

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Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	17.50	250	10.10	14.50	02:30					
27.50	200	26.00	200	15.00	16.00	01:30					
				16.00	17.50	01:15					
				19.50	21.50	01:15					
				21.50	26.00	03:05					

Service avoidance pit to 1.2m depth by others (backfilled).
Well with 63mm diameter monitoring pipe installed to 21.0m depth. Raised cover at surface.





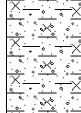
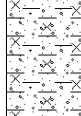
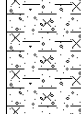
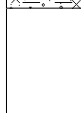
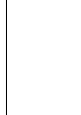
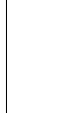
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					10.10			Dense sandy gravels Stiff/very stiff brown bolder clay		
		11.00	SPT	N=46 (4,4/8,11,11,16)					11	
		11.30 - 11.90	B							12
		12.50	SPT	N=47 (6,9/11,11,11,14)					13	
		13.00 - 13.70	B							14
		14.00	SPT	N=50 (9,8/12,12,13,13)						
		14.50 - 15.00	B		14.50		Large gravel and sands with few cobbles			
					15.00					15
		15.50	SPT	N=49 (10,9/10,15,14,10)				Stiff/very stiff brown clay	16	
		16.00 - 16.50	B							17
		17.00 - 17.45 17.00	B SPT	N=38 (9,8/6,10,10,12)	17.00		Dense blowing green/brown sands			
		17.50 - 18.00	B		17.50					
		18.50	SPT	N=48 (8,9/11,11,13,13)			Dense grey/brown sands	18		
		19.00 - 19.50	B							19
		20.00 - 20.30	D							20

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	17.50	250	10.10	14.50	02:30					
27.50	200	26.00	200	15.00	16.00	01:30					
				16.00	17.50	01:15					
				19.50	21.50	01:15					
				21.50	26.00	03:05					

Service avoidance pit to 1.2m depth by others (backfilled).
Well with 63mm diameter monitoring pipe installed to 21.0m depth. Raised cover at surface.



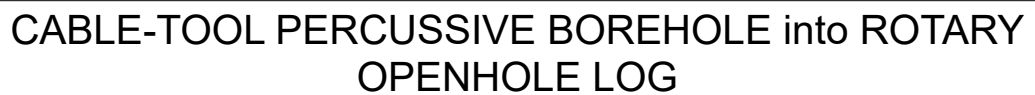


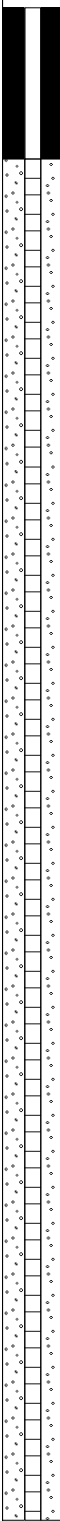
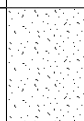
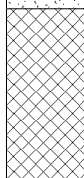
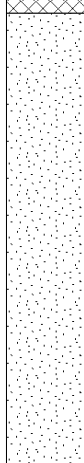
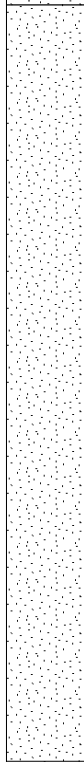
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	SPT	N=47 (9,8/8,10,15,14)	20.50			Dense grey/brown sands	21
	20.50 - 21.00	B					Very dense sands with minimal firm clay		
	21.50	SPT	50 (6,9/50 for 165mm)	21.50		Very dense sands	22		
	21.65 - 22.30	B				Firm silty clay/sand			
	23.00	SPT	50 (9,12/50 for 80mm)	24.00		Very stiff boulder clay	24		
	23.20 - 24.00	B						Very stiff boulder clay	
	24.50	SPT	N=50 (9,8/50 for 255mm)	25.00		Very stiff boulder clay	25		
	25.00 - 26.00	B						Very stiff boulder clay	
	26.00	SPT	N=61 (10,13/12,13,20,16)	27.50		Very stiff boulder clay	26		
	26.15 - 27.00	B						Very stiff boulder clay	
		27.50	SPT	75 (25,50/75 for 150mm)	27.50 27.50		Very hard obstruction End of Borehole at 27.500m		
								28	
								29	
								30	

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	17.50	250	10.10	14.50	02:30					
27.50	200	26.00	200	15.00	16.00	01:30					
				16.00	17.50	01:15					
				19.50	21.50	01:15					
				21.50	26.00	03:05					

Service avoidance pit to 1.2m depth by others (backfilled).
Well with 63mm diameter monitoring pipe installed to 21.0m depth. Raised cover at surface.





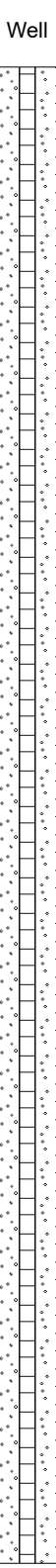
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50 - 1.00	B	N=31 (3,5/6,7,9,9)	0.80		Brown sandy soil fill containing brick concrete gravel some cobbles.	1	
		1.20 - 1.70 1.20	B SPT						
		2.20 - 2.70 2.20	B SPT	N=16 (3,3/4,4,4,4)	2.00		Fine brown sand.	2	
		3.20 - 3.70 3.20	B SPT	N=17 (3,4/4,4,5,4)					3
		4.20 - 4.70 4.20	B SPT	N=17 (3,4/4,4,4,5)	5.00			4	
		5.20 - 5.70 5.20	B SPT	N=20 (2,3/4,5,5,6)					5
		6.20 - 6.70 6.20	B SPT	N=25 (2,3/4,5,7,9)					6
		7.20	D						7
		7.70 - 8.20 7.70	B SPT	N=25 (2,3/4,5,7,9)				8	
		8.70	D					9	
		9.20 - 9.70 9.20	B SPT	N=24 (2,2/3,5,7,9)				10	
		10.00	D						

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	15.50	200	25.40	25.80	00:30					
15.60	250	15.60	250	28.10	28.40	00:20					
29.50	200	29.25	200	29.50	29.80	01:00					
55.00	150	30.00	150								

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 15.50m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.80m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 21.0m depth.





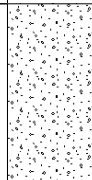
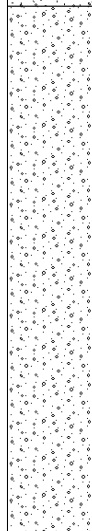
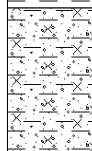
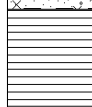
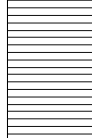
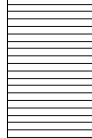
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		10.50 - 11.00 10.50	B SPT	N=20 (5,5/4,5,5,6)	11.30			Fine brown sand some coal fragments.	11		
		11.30 11.50 - 12.00 11.50	D B SPT	N=19 (2,3/4,4,5,6)				Fine light brown sand some coarse gravel, small pebbles.	12		
		12.50	D							13	
		13.00 - 13.50 13.00	B SPT	N=27 (3,4/6,6,7,8)						14	
		14.00	D							15	
		14.50 - 15.00 14.50	B SPT	N=29 (4,5/7,6,8,8)						16	
		15.50	D							17	
		16.00 - 16.50 16.00	B SPT	N=31 (3,4/6,7,9,9)						18	
		17.00	D							19	
		17.50 - 18.00 17.50	B SPT	N=32 (4,5/7,8,8,9)						20	
		18.50	D								
		19.00 - 19.50 19.00	B SPT	N=34 (3,5/7,9,9,9)							
20.00	D							20			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300		200	25.40	25.80	00:30					
15.60	250	15.60	250	28.10	28.40	00:20					
29.50	200	29.25	200	29.50	29.80	01:00					
55.00	150	30.00	150								

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 15.50m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.80m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 21.0m depth.





Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.50 - 21.00 20.50	B SPT	N=36 (3,6/8,8,10,10)	21.20			Fine light brown sand some coarse gravel, small pebbles.	21
		21.20	D	Ublow=90				Fine brown sand coarse gravels, small pebbles.	22
		21.50 - 21.95 21.50 - 22.00	U B					22	
		22.60 22.60	B SPT	N=46 (5,6/10,11,12,13)	24.70 25.00			Soft to firm silty sandy clay turning firm with depth & slightly laminated.	23
		23.50	D	Ublow=100				Firm to stiff boulder clay.	24
		24.00 - 24.45 24.00 - 24.50	U B					24	
		24.70	D	50 (10,18/50 for 40mm)		Mudstone grey silty hard.		25	
		25.30 - 25.80 25.30	B SPT			25			
		26.30	D			26			
		26.80 - 27.30 26.80	B SPT	33 (10,10/33 for 115mm)	27.60		Firm to stiff boulder clay, some cobbles.	27	
		27.60	D	27					
		28.50 - 29.00 28.50	B SPT	33 (15,10/33 for 105mm)			28		
		29.50 - 29.80	B	30 (10,15/30 for 85mm)		Very stiff boulder clay.	29		
		29.80	SPT			29			
		29.80				Bedrock, weathered mudstone.	30		

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300		200	25.40	25.80	00:30					
15.60	250	15.60	250	28.10	28.40	00:20					
29.50	200	29.25	200	29.50	29.80	01:00					
55.00	150	30.00	150								

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 15.50m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.80m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 21.0m depth.





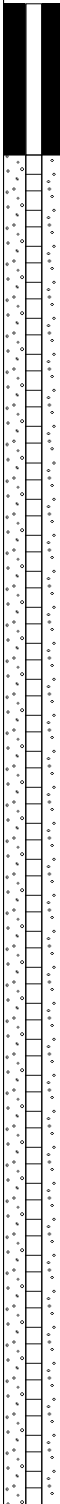
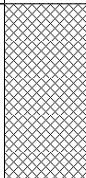
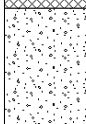
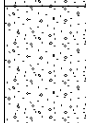
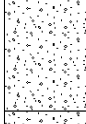
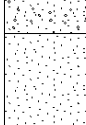
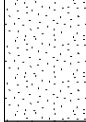
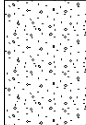
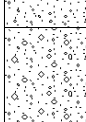
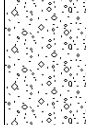
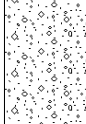


Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					41.00			Mudstone grey silty.	-	
									41	
										42
										-
										43
										-
										44
										-
										45
										-
										46
										-
										47
										-
										48
										-
										49
										-
										50

Remarks Service avoidance pit to 1.2m depth. Unable to advance 200mm-diameter casing below 15.50m depth. Re-bored in 250mm-diameter. Changed to rotary openhole at 29.80m depth. Rotary casing installed and borehole casing withdrawn. Well with 63mm diameter monitoring pipe installed to 21.0m depth.	
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Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.00 - 0.50	B	N=55 (10,10/15,15,15,10)	1.20			Soft brown sands with concrete slabs and stone	1	
		0.60 - 1.20	B							
		1.20	SPT							
		1.50 - 2.00	B	N=52 (8,8/8,16,14,14)	2.00		Dense gravelly sand			
		2.00	SPT						Fine sand and gravels	
		2.50 - 3.00	B			N=26 (4,6/8,6,6,6)	3.50			Dense gravelly sand
		3.00	SPT							Fine black sands
		3.20 - 3.40	B	N=26 (4,4/4,5,7,10)	3.80					Fine sand and gravels
		3.50 - 4.00	B							Fine black sands
		4.00	SPT			N=27 (6,4/5,5,7,10)	5.20			Light brown / orange fine sands and gravel
		4.50 - 5.00	B							Dense light brown gravel sands with some cobbles blowing
		5.00	SPT	N=23 (6,7/7,9,3,4)	6.20					Light brown / orange fine sands and gravel
		5.50 - 6.20	B							Dense light brown gravel sands with some cobbles blowing
		6.50	SPT			N=32 (7,9/6,8,9,9)	9.50			Dense light brown gravel sands with some cobbles blowing
		6.95 - 7.30	B							Dense light brown sands with some cobbles blowing
		8.00	SPT	N=13 (3,4/4,3,3,3)	9.50					Dense light brown gravel sands with some cobbles blowing
		8.45 - 9.20	B							Dense light brown sands with some cobbles blowing
		9.50	SPT							Dense light brown gravel sands with some cobbles blowing
		10.00 - 11.00	B				Dense light brown sands with some cobbles blowing			10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	14.00	200	1.50	2.20	01:20	Tool	Depth Top	Depth Base	Inclination	Orientation
14.00	200	17.00	250	11.30	13.30	01:55					
17.00	250	29.00	150	13.30	14.50	01:15					
29.50	200	29.50	200	14.50	17.00	01:15					
55.00	150			19.50	21.00	01:00					

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 14.00m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.50m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.





CABLE-TOOL PERCUSSIVE BOREHOLE into ROTARY OPENHOLE LOG

Project Name: Pilsworth Quarry		Client:		Date(s): 12/02/2024 to 27/02/2024	
Location:		Contractor:			
Project No. : 10219		Crew Name:		Plant: Cable-tool Percussive Rig (Dando 2500/2) to 29.50m Rotary Rig (Comacchio Geo 205/3) to base	
Borehole Number CP04	Hole Type CP+RO	Level	Logged By C Shepherd(CP Foreman) SS (Rotary Foreman)	Scale 1:50	Page Number Sheet 2 of 6

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		11.00	SPT	N=17 (4,4/3,4,5,5)				Dense light brown sands with some cobbles blowing	11
		11.50 - 12.50	B					...very large cobbles, gravel and sands (in re-bore) between 11.3m and 13.3m	12
		12.50	SPT	N=19 (3,3/5,5,5,4)	12.50			Large cobbles with gravels and sands	13
		13.00 - 14.00	B						
		14.00	SPT	N=35 (8,9/9,8,9,9)					14
		14.50 - 15.00	B						15
		15.50	SPT	N=48 (10,9/12,10,10,16)				Dense blowing sands	16
		16.00 - 16.70	B		16.00				
		17.00	SPT	N=39 (9,9/10,10,9,10)					17
		17.45 - 18.00	B						
		18.00	SPT	N=50 (1,4/5,15,15,15)				Firm/stiff silty clay with hints of boulder clay	18
		18.50 - 19.00	B						19
		19.50	SPT	N=52 (10,10/10,12,14,16)	19.00				
		20.00 - 21.00	B						20

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	14.00	200	1.50	2.20	01:20					
14.00	200	17.00	250	11.30	13.30	01:55					
17.00	250	29.00	150	13.30	14.50	01:15					
29.50	200	29.50	200	14.50	17.00	01:15					
55.00	150			19.50	21.00	01:00					

Remarks Service avoidance pit to 1.2m depth. Unable to advance 200mm-diameter casing below 14.00m depth. Re-bored in 250mm-diameter. Changed to rotary openhole at 29.50m depth. Rotary casing installed and borehole casing withdrawn. Well with 63mm diameter monitoring pipe installed to 23.0m depth.										
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Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	14.00	200	1.50	2.20	01:20					
14.00	200	17.00	250	11.30	13.30	01:55					
17.00	250	29.00	150	13.30	14.50	01:15					
29.50	200	29.50	200	14.50	17.00	01:15					
55.00	150			19.50	21.00	01:00					

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 14.00m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.50m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.





Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					30.60			Mudstone grey.	31	
								Sandstone grey hard.	32	
									33	
									34	
										35
										36
										37
										38
										39
										40

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	14.00	200	1.50	2.20	01:20					
14.00	200	17.00	250	11.30	13.30	01:55					
17.00	250	29.00	150	13.30	14.50	01:15					
29.50	200	29.50	200	14.50	17.00	01:15					
55.00	150			19.50	21.00	01:00					

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 14.00m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.50m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.





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Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20	300	14.00	200	1.50	2.20	01:20					
14.00	200	17.00	250	11.30	13.30	01:55					
17.00	250	29.00	150	13.30	14.50	01:15					
29.50	200	29.50	200	14.50	17.00	01:15					
55.00	150			19.50	21.00	01:00					

Service avoidance pit to 1.2m depth.
Unable to advance 200mm-diameter casing below 14.00m depth. Re-bored in 250mm-diameter.
Changed to rotary openhole at 29.50m depth. Rotary casing installed and borehole casing withdrawn.
Well with 63mm diameter monitoring pipe installed to 23.0m depth.





CABLE-TOOL PERCUSSIVE BOREHOLE LOG

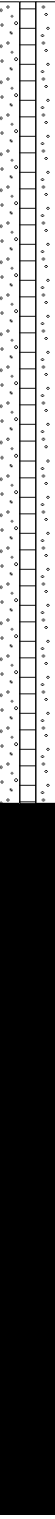
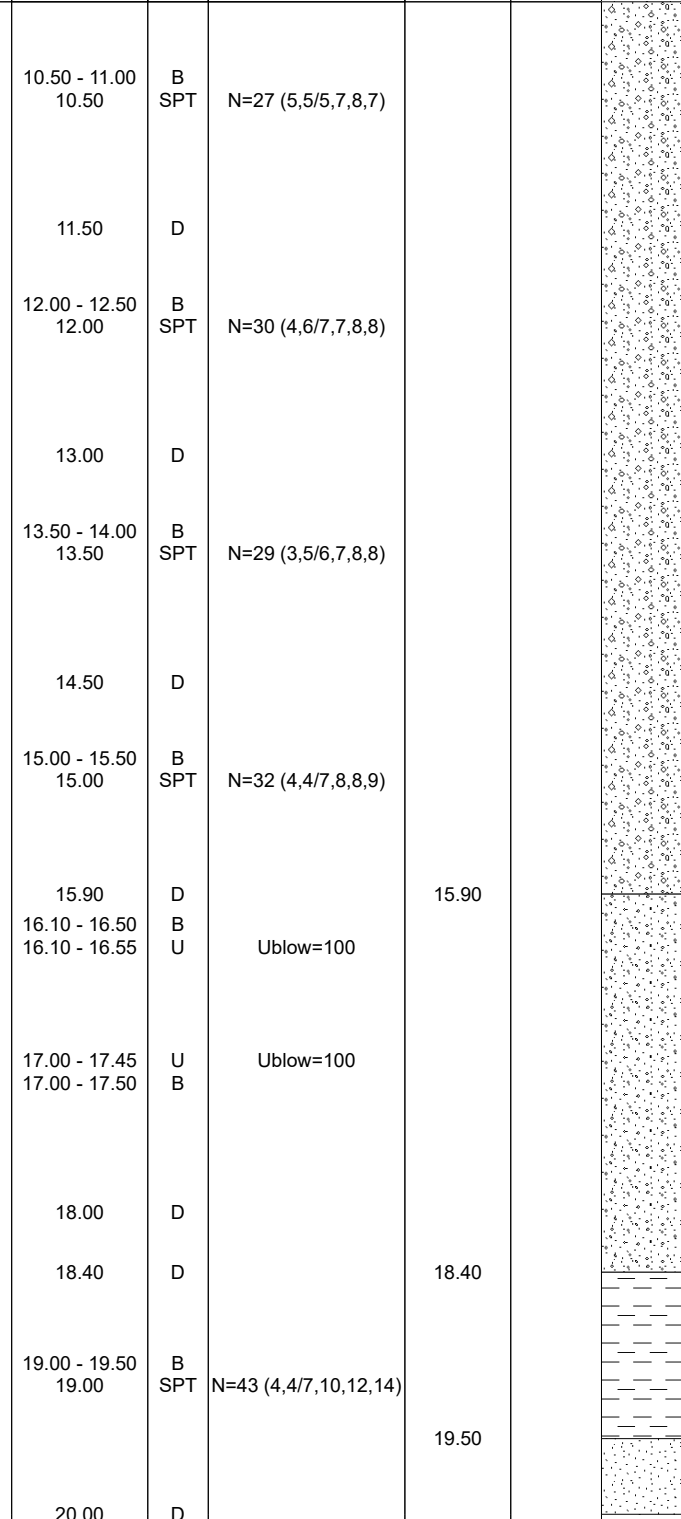
Project Name: Pilsworth Quarry			Client:			Date(s): 21/02/2024 to 06/03/2024		
Location:			Contractor:					
Project No. : 10219			Crew Name:			Plant: Cable-tool Percussive Rig (Dando 2500)		
Borehole Number CP05		Hole Type CP		Level		Logged By Paul Butterfield (CP Foreman)		Page Number Sheet 1 of 3
						Scale 1:50		

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20 - 0.70	B	49 (4,6/49 for 225mm)	0.75			Compact soil some brick & cobbles.	1
		0.70 - 1.20	B					Dark brown sandy soil some gravels. Fill material.	
		1.20 - 1.70 1.20	B SPT					Fine brown sand some coarse gravel, possible fill material.	
		2.20 - 2.70 2.20	B SPT	N=9 (1,2/2,2,2,3)	2.20			Fine brown sand.	2
		3.20 - 3.70 3.20	B SPT	N=20 (1,1/4,5,5,6)					
		4.20 - 4.70 4.20	B SPT	N=26 (2,3/6,6,6,8)					
		5.20 - 5.70 5.20	B SPT	N=22 (3,4/5,6,6,5)	4.20			Fine brown sand some coarse gravel.	5
		6.00	D						
		6.50 - 7.00 6.50	B SPT	N=22 (1,4/5,5,6,6)					
		7.50	D		8.70			Some fine brown sand, gravels, cobbles small pebbles.	9
		8.00 - 8.50 8.00	B SPT	N=23 (2,3/3,5,7,8)					
		8.70	D						
		9.00 - 9.50 9.00	B SPT	N=24 (2,3/5,5,7,7)	9.50			Fine brown sand, gravels, some large cobbles small pebbles.	10
		10.00	D						

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20 15.67 28.40	300 250 200	15.67 28.40	250 200	28.50	29.00	01:00					

Remarks Service avoidance pit to 1.2m depth. Variable (Falling) Head Permeability test at 1.2m depth. Well with 63mm diameter monitoring pipe installed to 15.3m depth. Raised cover at surface.											
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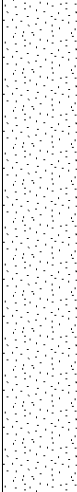
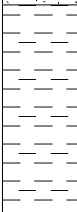
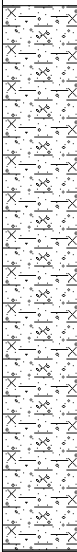
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50 - 11.00 10.50	B SPT	N=27 (5,5/5,7,8,7)				Fine brown sand, gravels, some large cobbles small pebbles.	11
		11.50	D						12
		12.00 - 12.50 12.00	B SPT	N=30 (4,6/7,7,8,8)					13
		13.00	D						
		13.50 - 14.00 13.50	B SPT	N=29 (3,5/6,7,8,8)					14
		14.50	D						
		15.00 - 15.50 15.00	B SPT	N=32 (4,4/7,8,8,9)					15
		15.90	D					15.90	
		16.10 - 16.50 16.10 - 16.55	B U	Ublow=100					16
		17.00 - 17.45 17.00 - 17.50	U B	Ublow=100					17
		18.00	D						18
		18.40	D					18.40	
		19.00 - 19.50 19.00	B SPT	N=43 (4,4/7,10,12,14)				19.50	
20.00	D				20				

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Service avoidance pit to 1.2m depth.
Variable (Falling) Head Permeability test at 1.2m depth.
Well with 63mm diameter monitoring pipe installed to 15.3m depth. Raised cover at surface.





Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.50 - 21.00 20.50	B SPT	50 (7,10/50 for 200mm)	23.30			Dense, brown silty sand.	21
		21.50	D						22
		22.00 - 22.50 22.00	B SPT	50 (6,10/50 for 200mm)					23
		23.00	D						
		23.30	D						
		23.50 - 23.95 23.50 - 24.00	U B	Ublow=100	24.70			Stiff brown clay slightly laminated.	24
		24.50	D						
		24.70	D						
		25.00 - 25.50 25.00	B SPT	N=50 (6,11/50 for 235mm)					25
		26.00	D						26
		26.50 - 26.95 26.50 - 27.00	U B	Ublow=100	28.30			Stiff boulder clay, very stiff some cobbles with depth.	27
		27.50 - 28.00 27.50	B SPT	50 (8,10/50 for 170mm)					28
		28.30	D						
		28.50 - 29.00	B						
		29.00	SPT	50 (25 for 110mm/50 for 85mm)					29
							End of Borehole at 29.000m	30	

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.20 15.67 28.40	300 250 200		15.67 250 200	28.50	29.00	01:00					

Service avoidance pit to 1.2m depth.
Variable (Falling) Head Permeability test at 1.2m depth.
Well with 63mm diameter monitoring pipe installed to 15.3m depth. Raised cover at surface.

