

The Sizewell C Project

6.14 Environmental Statement Addendum
Volume 3: Environmental Statement Addendum Appendices
Chapter 2 Main Development Site Appendix 2.13.A
Phase 2 Geo-Environmental Interpretative Report Part 22 of 25

Revision: 2.0

Applicable Regulation: Regulation 5(2)(a)

PINS Reference Number: EN010012

January 2021

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

SizewellC
Doing the power of good for Britain
EDF CGN

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR12
DEPTH TOP: 16.50 (m)

DATE: 23 / 08 / 19
BOX REF: 12
DEPTH BASE: 18.00 (m)

BASE

-CR12-

16.50m

18.00m

NOTE: AZCL: 17.90-18.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
DATE: 23 / 08 / 19
SAMPLE REF: 13
BOX REF: 13
DEPTH TOP: 18.00 (m)
DEPTH BASE: 19.50 (m)

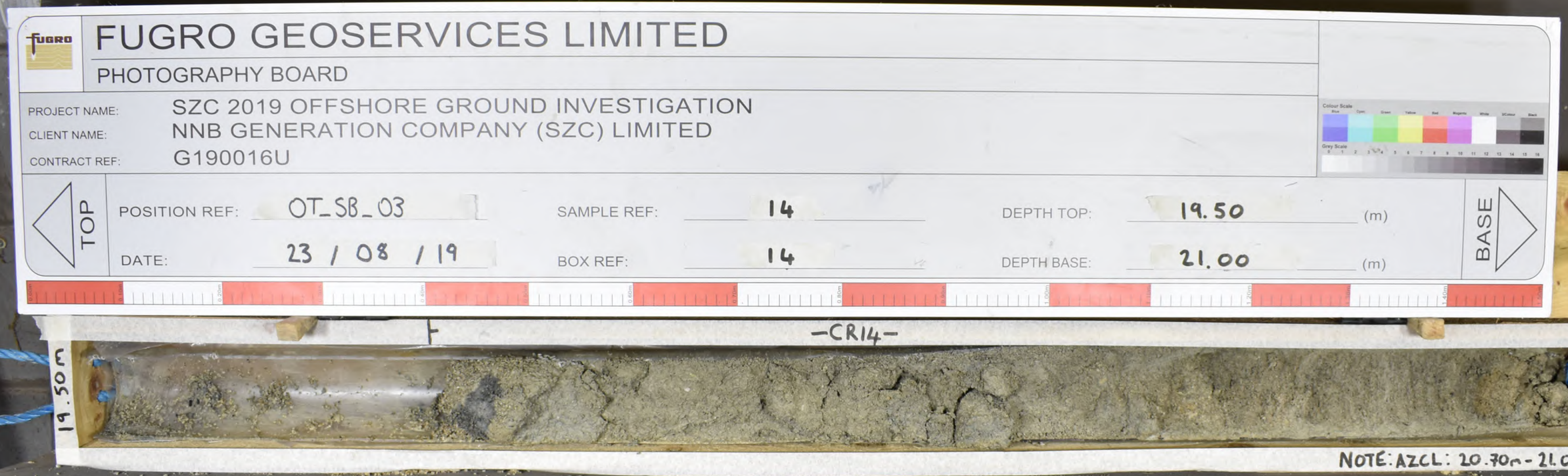
BASE

-CR13-

18.00m

19.50m

NOTE: AZCL: 18.95m - 19.50m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: 14
DEPTH TOP: 19.50 (m)
DATE: 23 / 08 / 19
BOX REF: 14
DEPTH BASE: 21.00 (m)
BASE
-CR14-
19.50m
21.00m
NOTE: AZCL: 20.70m - 21.00m

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: 15
DEPTH TOP: 21.00 (m)
DATE: 23 / 08 / 19
BOX REF: 15
DEPTH BASE: 22.50 (m)

BASE

-CR15-

21.00m

22.50m

NOTE: AZCL: 22.30m - 22.50m

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR16
DEPTH TOP: 22.50 (m)
DATE: 23 / 08 / 19
BOX REF: 16
DEPTH BASE: 24.00 (m)

BASE

-CR16-

22.50m

24.00m

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03

SAMPLE REF: CR17

DEPTH TOP: 24.00 (m)

DATE: 23 / 08 / 19

BOX REF: 17

DEPTH BASE: 25.50 (m)

BASE

- CR17 -

24.00m

25.50m


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 23 / 08 / 19
BOX REF: 18
DEPTH BASE: 27.00 (m)
BASE
-CR18-
25.50m
27.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: CR19
DEPTH TOP: 27.00 (m)
DATE: 23 / 08 / 19
BOX REF: 19
DEPTH BASE: 28.50 (m)
BASE
-CR19-
27.00m
28.50m

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)
DATE: 14/10/19
BOX REF: 19
DEPTH BASE: 28.50 (m)

BASE

-CR 19-

27.00m

28.50m


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: CR20
DEPTH TOP: 28.50 (m)
DATE: 23 / 08 / 19
BOX REF: 20
DEPTH BASE: 30.00 (m)
BASE
-CR20-
28.50m
30.00m

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR 20
DEPTH TOP: 28.50 (m)

DATE: 14/10/19
BOX REF: 20
DEPTH BASE: 30.00 (m)

BASE




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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 01
DEPTH TOP: 0.00 (m)
DATE: 11 / 09 /19
BOX REF: 1
DEPTH BASE: 1.50 (m)
BASE
-CR1-
0.00m
CEFAS1+CEFASRAD2
CEFAS4+CEFASRAD5
1.50m
CEFAS1+CEFASRAD2 : 0.00m-0.50m
0.50m+CEFASRAD3: 0.50-1.00m (TOP 1/2 LINER)1.00m+CEFAS4+CEFASRAD5: 1.00-1.25m +1.25m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 02
DEPTH TOP: 1.50 (m)
DATE: 11 / 09 /19
BOX REF: 2
DEPTH BASE: 3.00 (m)
BASE
-CR2-
CEFAS6+CEFASRAD7
1.50m
3.00m
CEFAS6+CEFASRAD7: 2.00-2.25m


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CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 03
DEPTH TOP: 3.00 (m)
DATE: 11 / 09 /19
BOX REF: 3
DEPTH BASE: 4.50 (m)
BASE
-CR3-
4.45m
3.00m
4.50m
* NOTE: AZCL 4.45m - 4.50m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 04
DEPTH TOP: 4.50 (m)
DATE: 11 / 09 /19
BOX REF: 4
DEPTH BASE: 6.00 (m)
BASE
-CR4-
4.50m
6.00m
ESWAC1/2
ESWAC 1/2 : 5.80 - 6.00m


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 05
DEPTH TOP: 6.00 (m)
DATE: 11 / 09 /19
BOX REF: 5
DEPTH BASE: 7.50 (m)
BASE
6.00m
6.20m
-CR5-
7.20m
-AZCL-
6.00m
7.50m
ESWAC1/2
ESWAC1/2: 6.00-6.20m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 06
DEPTH TOP: 7.50 (m)
DATE: 11 / 09 / 19
BOX REF: 6
DEPTH BASE: 9.00 (m)
BASE
7.50m
7.70m
-CRE-
8.60
-AZCL-
ESWAC1/2
7.50m
9.00m
ESWAC 1/2 : 7.50-7.70m (COMPOSITE)
NOTE : AZCL; 8.60-9.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 07
DEPTH TOP: 9.00 (m)
DATE: 11 / 09 / 19
BOX REF: 7
DEPTH BASE: 10.50 (m)
BASE
9.20m
-CR7-
10.20m
-AZCL-
9.00m
ESWAC1/2
10.50m
ESWAC1/2; 9.00-9.20 (composite)


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 08
DEPTH TOP: 10.50 (m)
DATE: 11 / 09 /19
BOX REF: 8
DEPTH BASE: 12.00 (m)
BASE
10.50m
-CR8-
11.60m
11.80m
-AZCL-
ESWAC 1/2
10.50m
12.00m
ESWAC 1/2 : 11.60-11.80m (COMPOSITE)


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 09
DEPTH TOP: 12.00 (m)
DATE: 11 / 09 /19
BOX REF: 9
DEPTH BASE: 13.50 (m)
BASE
FESWAC1/2 +12.15m
-CR9-
13.30m1 AZCL
ESWAC1/2
12.00m
13.50m
ESWAC1/2:12.00-12.15m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 10
DEPTH TOP: 13.50 (m)
DATE: 11 / 09 /19
BOX REF: 10
DEPTH BASE: 15.00 (m)
BASE
ESWAC 1/2 13.60m
-CR10-
14.90m AZCL
13.50m
15.00m
ESWAC 1/2
ESWAC 1/2 13.50-13.60m (COMPOSITE)


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 11
DEPTH TOP: 15.00 (m)
DATE: 11 / 09 / 19
BOX REF: 11
DEPTH BASE: 16.50 (m)
BASE
15.10m
-CR11-
16.40m
15.00m
16.50m
ESWAC 1/2
ESWAC 1/2
ESWAC 1/2 15.00-15.10m (COMPOSITE)
ESWAC 1/2: 16.40-16.50m (COMPOSITE)


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 12
DEPTH TOP: 16.50 (m)
DATE: 11 / 09 /19
BOX REF: 12
DEPTH BASE: 18.00 (m)
BASE
16.50m
+16.60m
-CR12-
17.70m
17.80m *
ESWAC1/2
ESWAC1/2
16.50m
18.00m
ESWAC1/2:16.50-16.60m
ESWAC1/2. 17.70-17.80m (COMPOSITE)
*NOTE AZCL: 17.80-18.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 13
DEPTH TOP: 18.00 (m)
DATE: 11 / 09 /19
BOX REF: 13
DEPTH BASE: 19.50 (m)
BASE
+18.10m
-CR13-
19.40m + NTS
18.00m
19.50m
ESWAC 1/2
ESWAC 1/2
ESWAC1/2:18.00-18.10m (COMPOSITE)
ESWAC1/2 19.40-19.50m (COMPOSITE)


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 14
DEPTH TOP: 19.50 (m)
DATE: 11 / 09 /19
BOX REF: 14
DEPTH BASE: 21.00 (m)
BASE
19.50mt
-CR14-
20.30mt
20.50mt*1
19.50m
21.00m
ESWAC2
ESWAC2:20.30-20.50m(COMPOSITE) *AZCL:20.50-21.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 15
DEPTH TOP: 21.00 (m)
DATE: 11 / 09 /19
BOX REF: 15
DEPTH BASE: 22.50 (m)
BASE
+21.10m
-CR15-
22.40m
21.00m
22.50m
ESWAC2
ESWAC 2
ESWAC2:21.00-21.10m (COMPOSITE)
ESWAC2:22.40-22.50m (COMPOSITE)


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)
DATE: 11 / 09 / 19
BOX REF: 16
DEPTH BASE: 24.00 (m)
BASE
+22.70m
-CR.16-
ESWAC 2
22.50m
24.00m
ESWAC 2: 22.50-22.70m (COMPOSITE).
TOP OF CLAY


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)
DATE: 13 / 09 / 19
BOX REF: 16
DEPTH BASE: 24.00 (m)
BASE
22.70m
-CR.16-
22.50m
ESWAC 2
24.00m
ESWAC 2: 22.50-22.70m (COMPOSITE).
TOP OF CLAY


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 17
DEPTH TOP: 24.00 (m)
DATE: 12 / 09 / 19
BOX REF: 17
DEPTH BASE: 25.50 (m)
BASE
-CR17-
24.00
25.50


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 17
DEPTH TOP: 24.00 (m)
DATE: 13/09/19
BOX REF: 17
DEPTH BASE: 25.50 (m)
BASE
-CR17-
24.00m
25.50m
FOR BULK DENSITY


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 12 / 09 / 19
BOX REF: 18
DEPTH BASE: 27.00 (m)
BASE
-CR18-
25.50m
27.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 13/09/19
BOX REF: 18
DEPTH BASE: 27.00 (m)
BASE
-CR18-
25.50m
27.00m


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)
DATE: 12 / 09 / 19
BOX REF: 19
DEPTH BASE: 28.50 (m)
BASE
-CR19-
27.00m
28.50m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)
DATE: 13 / 09 / 19
BOX REF: 19
DEPTH BASE: 28.50 (m)
BASE
-CR19-
27.00m
28.50m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 20
DEPTH TOP: 28.50 (m)
DATE: 12 / 09 / 19
BOX REF: 20
DEPTH BASE: 30.00 (m)
BASE
-CR20-
28.50m
30.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 20
DEPTH TOP: 28.50 (m)
DATE: 13 / 09 / 19
BOX REF: 20
DEPTH BASE: 30.00 (m)
BASE
CR20
28.50m
30.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)
DATE: 12 / 09 / 19
BOX REF: 21
DEPTH BASE: 31.50 (m)
BASE
-CR21-
30.00
31.50


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)
DATE: 13 / 09 / 19
BOX REF: 21
DEPTH BASE: 31.50 (m)
BASE
-CR21-
30.00
31.50


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 22
DEPTH TOP: 31.50 (m)
DATE: 12 / 09 / 19
BOX REF: 22
DEPTH BASE: 33.00 (m)
BASE
-CR22-
31.50m
33.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 22
DEPTH TOP: 31.50 (m)
DATE: 13 / 09 / 19
BOX REF: 22
DEPTH BASE: 33.00 (m)
BASE
-CR22-
31.50m
33.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 23
DEPTH TOP: 33.00 (m)
DATE: 12 / 09 / 19
BOX REF: 23
DEPTH BASE: 34.50 (m)
BASE
-CR23-
33.00m
34.50m


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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 23
DEPTH TOP: 33.00 (m)
DATE: 12 / 09 / 19
BOX REF: 23
DEPTH BASE: 34.50 (m)
BASE
-CR23-
33.00
34.50


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 24
DEPTH TOP: 34.50 (m)
DATE: 12 / 09 / 19
BOX REF: 24
DEPTH BASE: 36.00 (m)
BASE
-CR24-
34.50m
36.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 24
DEPTH TOP: 34.50 (m)
DATE: 12 / 09 / 19
BOX REF: 24
DEPTH BASE: 36.00 (m)
BASE
-CR24-
34.50m
36.00m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 25
DEPTH TOP: 36.00 (m)
DATE: 12 / 09 / 19
BOX REF: 25
DEPTH BASE: 37.50 (m)
BASE
-CR25-
36.00m
37.50m


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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 25
DEPTH TOP: 36.00 (m)
DATE: 12 / 09 / 19
BOX REF: 25
DEPTH BASE: 37.50 (m)
BASE
-CR25-
36.00m
37.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 26
DEPTH TOP: 37.50 (m)
DATE: 12 / 09 / 19
BOX REF: 26
DEPTH BASE: 39.00 (m)
BASE
-CR26-
37.50m
39.00m
*NOTE: AZCL: 38.95-39.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 26
DEPTH TOP: 37.50 (m)
DATE: 12 / 09 / 19
BOX REF: 26
DEPTH BASE: 39.00 (m)
BASE
-CR26-
37.50m
39.00m
*NOTE: AZCL: 38.95-39.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)
DATE: 12 / 09 / 19
BOX REF: 27
DEPTH BASE: 40.50 (m)
BASE
-CR27-
39.00m
40.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)
DATE: 12 / 09 / 19
BOX REF: 27
DEPTH BASE: 40.50 (m)
BASE
-CR27-
39.00m
40.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)
DATE: 12 / 09 / 19
BOX REF: 28
DEPTH BASE: 42.00 (m)
BASE
-CR28-
40.50m
42.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)
DATE: 12 / 09 / 19
BOX REF: 28
DEPTH BASE: 42.00 (m)
BASE
-CR28-
40.50m
42.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)
DATE: 12 / 09 / 19
BOX REF: 29
DEPTH BASE: 43.50 (m)
BASE
-CR29-
42.00m
43.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)
DATE: 12 / 09 / 19
BOX REF: 29
DEPTH BASE: 43.50 (m)
BASE
-CR29-
42.00m
43.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 30
DEPTH TOP: 43.50 (m)
DATE: 12 / 09 / 19
BOX REF: 30
DEPTH BASE: 45.00 (m)
BASE
-CR30-
43.50m
45.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 30
DEPTH TOP: 43.50 (m)
DATE: 12 / 09 / 19
BOX REF: 30
DEPTH BASE: 45.00 (m)
BASE
-CR30-
43.50m
45.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)
DATE: 12 / 09 / 19
BOX REF: 31
DEPTH BASE: 46.50 (m)
BASE
-CR31-
45.00m
46.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)
DATE: 12 / 09 / 19
BOX REF: 31
DEPTH BASE: 46.50 (m)
BASE
-CR31-
45.00m
46.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)
DATE: 12 / 09 / 19
BOX REF: 32
DEPTH BASE: 48.00 (m)
BASE
-CR32-
46.50m
48.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
DATE: 12 / 09 / 19
SAMPLE REF: CR 32
BOX REF: 32
DEPTH TOP: 46.50 (m)
DEPTH BASE: 48.00 (m)
BASE
-CR32-
46.50m
48.00m
* FOR BULK DENSITY


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)
DATE: 12 / 09 / 19
BOX REF: 33
DEPTH BASE: 49.50 (m)
BASE
-CR33-
48.00m
49.50m
*NOTE: AZCL: 49.45 - 49.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
DATE: 12 / 09 / 19
SAMPLE REF: CR 33
BOX REF: 33
DEPTH TOP: 48.00 (m)
DEPTH BASE: 49.50 (m)
BASE
-CR33-
48.00m
49.50m
* NOTE: AZCL: 49.45 - 49.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)
DATE: 12 / 09 / 19
BOX REF: 34
DEPTH BASE: 51.00 (m)
BASE
-CR34-
49.50m
51.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)
DATE: 12 / 09 / 19
BOX REF: 34
DEPTH BASE: 51.00 (m)
BASE
-CR34-
49.50m
51.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)
DATE: 12 / 09 / 19
BOX REF: 35
DEPTH BASE: 52.50 (m)
BASE
-CR35-
51.00m
52.50m
*NOTE:AZCL;52.45-52.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)
DATE: 12 / 09 / 19
BOX REF: 35
DEPTH BASE: 52.50 (m)
BASE
-CR35-
51.00m
52.50m
*NOTE:AZCL;52.45-52.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 36
DEPTH TOP: 52.50 (m)
DATE: 12 / 09 / 19
BOX REF: 36
DEPTH BASE: 54.00 (m)
BASE
-CR36-
52.50m
54.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 36
DEPTH TOP: 52.50 (m)
DATE: 12 / 09 / 19
BOX REF: 36
DEPTH BASE: 54.00 (m)
BASE
-CR36-
52.50m
54.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)
DATE: 12 / 09 / 19
BOX REF: 37
DEPTH BASE: 55.50 (m)
BASE
-CR37-
54.00m
55.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_04
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)
DATE: 12 / 09 / 19
BOX REF: 37
DEPTH BASE: 55.50 (m)
BASE
-CR37-
54.00
55.50

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

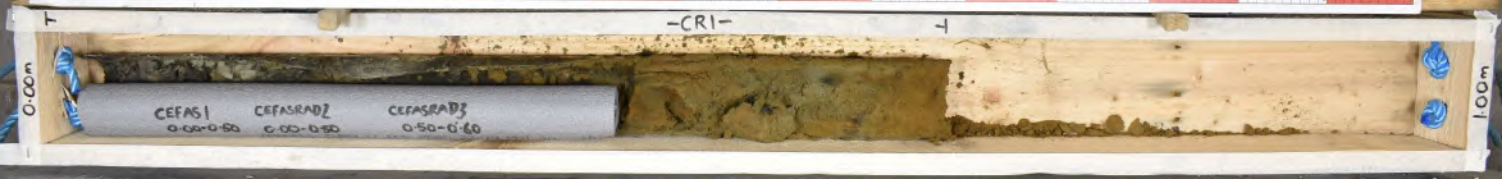
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 1 DEPTH TOP: 0.00 (m)

DATE: 29/8/19 BOX REF: 1 DEPTH BASE: 1.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

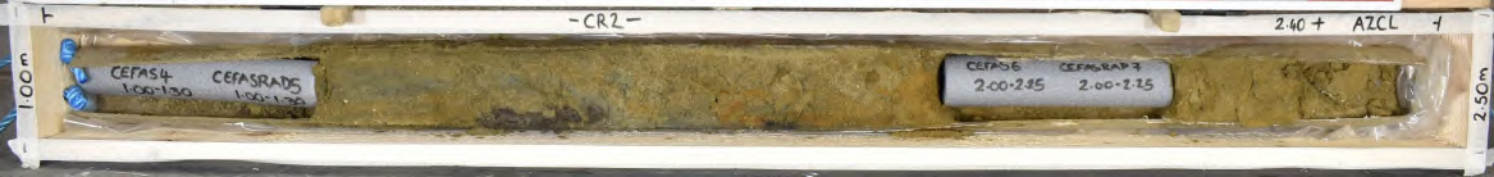
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 2 DEPTH TOP: 1.00 (m)

DATE: 29/8/19 BOX REF: 2 DEPTH BASE: 2.50 (m)

BASE



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PHOTOGRAPHY BOARD

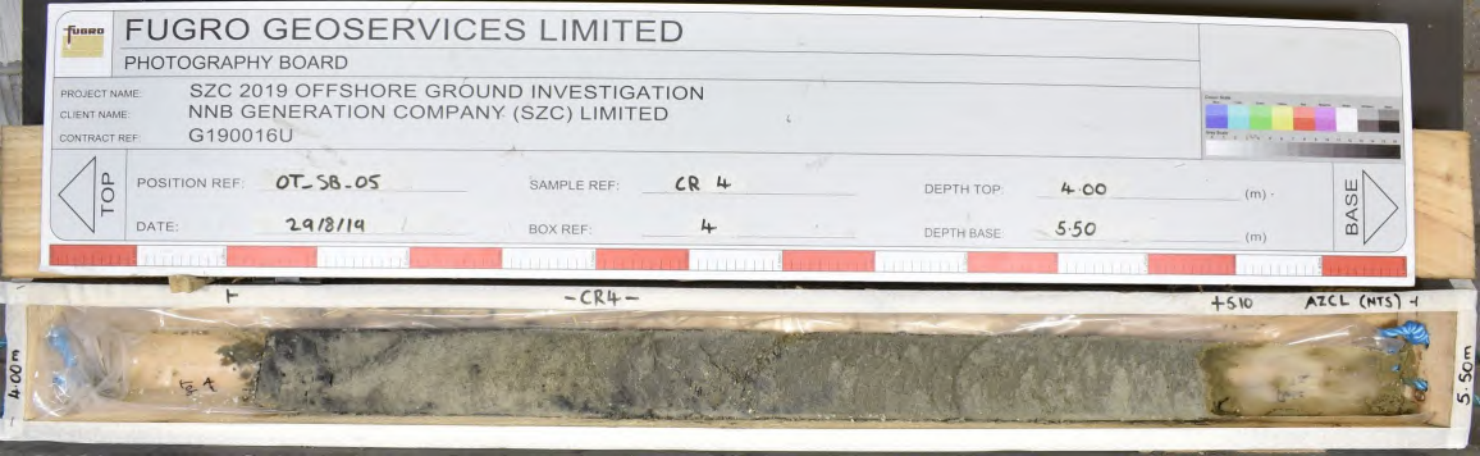
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 3
DEPTH TOP: 2·50 (m)
DATE: 29/8/19
BOX REF: 3
DEPTH BASE: 4·00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 4
DEPTH TOP: 4.00 (m)
DATE: 29/8/19
BOX REF: 4
DEPTH BASE: 5.50 (m)
BASE
-CR4-
+510
AZCL (NTS)
4.00m
5.50m

FUGRO GEOSERVICES LIMITED

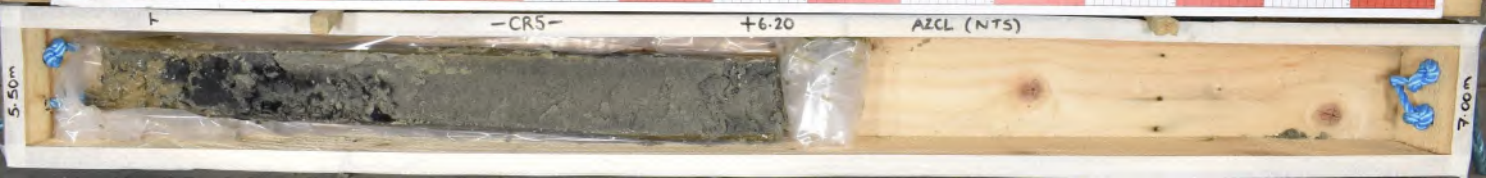
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 5
DEPTH TOP: 5.50 (m)
DATE: 29/8/19
BOX REF: 5
DEPTH BASE: 7.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
DATE: 29/08/19
SAMPLE REF: CR 06
BOX REF: 06
DEPTH TOP: 7.00 (m)
DEPTH BASE: 8.50 (m)

BASE



* NOTE: 7,65m - 8,50m : AZCL -


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 7
DEPTH TOP: 8.50 (m)
DATE: 29/8/19
BOX REF: 7
DEPTH BASE: 10.00 (m)
BASE
T
-CR7-
T
8.50m
10.00m
NOTE: AZCL, 9.85-10.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 8
DEPTH TOP: 10.00 (m)

DATE: 29/8/19
BOX REF: 8
DEPTH BASE: 11.50 (m)

BASE



NOTE: AZCL; 11.00 - 11.50 m

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PHOTOGRAPHY BOARD

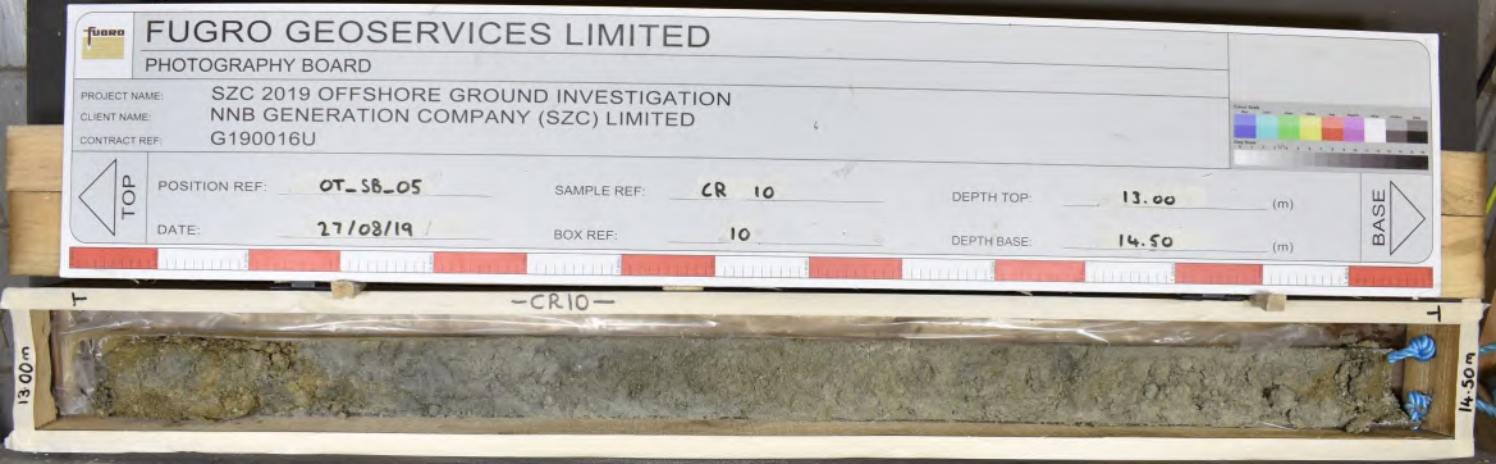
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 9
DEPTH TOP: 11.50 (m)
DATE: 29/8/19
BOX REF: 9
DEPTH BASE: 13.00 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 10
DEPTH TOP: 13.00 (m)
DATE: 27/08/19
BOX REF: 10
DEPTH BASE: 14.50 (m)
BASE
T
-CR10-
T
13.00m
14.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 11
DEPTH TOP: 14.50 (m)
DATE: 27/08/19
BOX REF: 11
DEPTH BASE: 16.00 (m)

BASE



NOTE: AZCL: 15.60m - 16.00m

FUGRO GEOSERVICES LIMITED

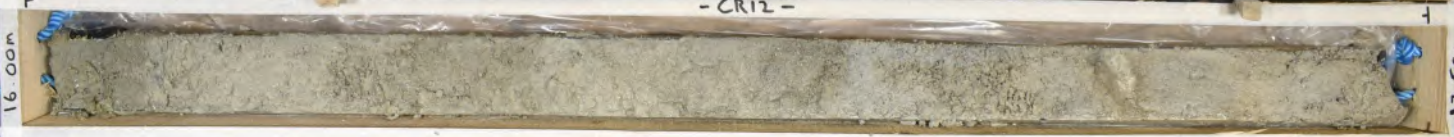
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
DATE: 27/08/19
SAMPLE REF: CR 12
BOX REF: 12
DEPTH TOP: 16.00 (m)
DEPTH BASE: 17.50 (m)

BASE



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PHOTOGRAPHY BOARD

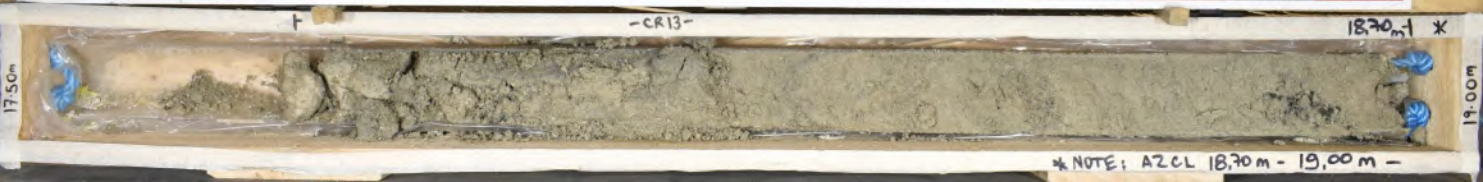
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

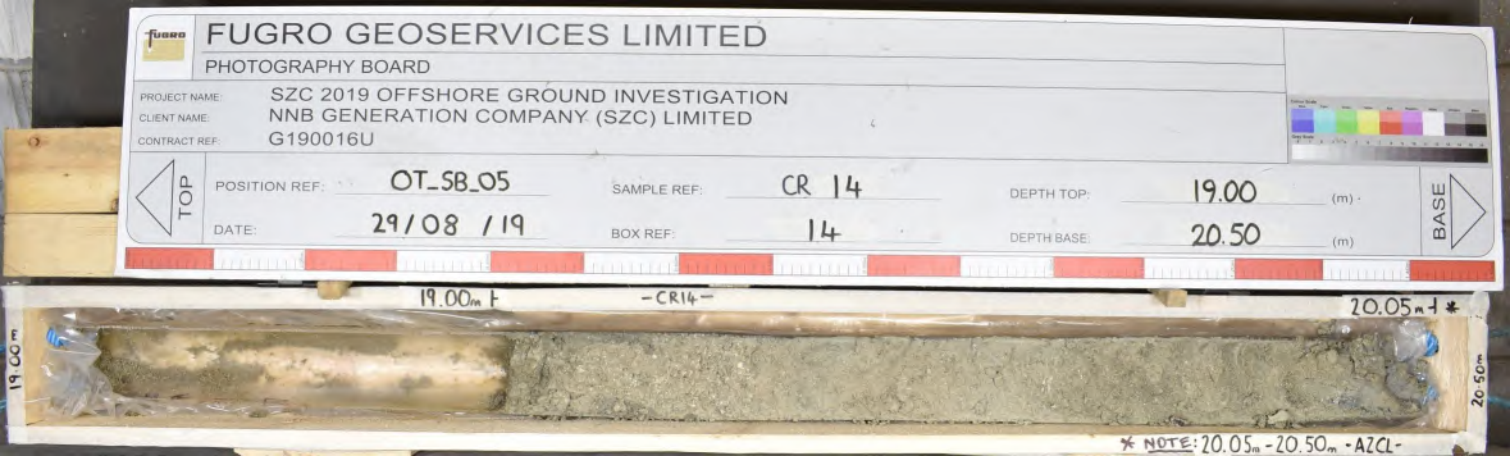
TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 13 DEPTH TOP: 17.50 (m)

DATE: 29/08/19 BOX REF: 13 DEPTH BASE: 19.00 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 14
DEPTH TOP: 19.00 (m)
DATE: 29/08 /19
BOX REF: 14
DEPTH BASE: 20.50 (m)
BASE
19.00m ↑
-CR14-
20.05m ↓ *
19.00m
20.50m
* NOTE: 20.05m - 20.50m - AZCL -

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
DATE: 29/8/19
SAMPLE REF: CR 15
BOX REF: 15
DEPTH TOP: 20.50 (m)
DEPTH BASE: 22.00 (m)

BASE



NOTE: AZCL; 21.90-22.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 16
DEPTH TOP: 22.00 (m)
DATE: 27/08/19
BOX REF: 16
DEPTH BASE: 23.50 (m)

BASE

- CR16 -

22.00m

23.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 17 DEPTH TOP: 23.50 (m)

DATE: 29/8/19 BOX REF: 17 DEPTH BASE: 25.00 (m)

BASE

-CR17-

23.50m

25.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05

DATE: 03/09/19

SAMPLE REF: CR 17

BOX REF: 17

DEPTH TOP: 23.50 (m)

DEPTH BASE: 25.00 (m)

BASE

-CR17-

23.50m

25.00m

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PHOTOGRAPHY BOARD

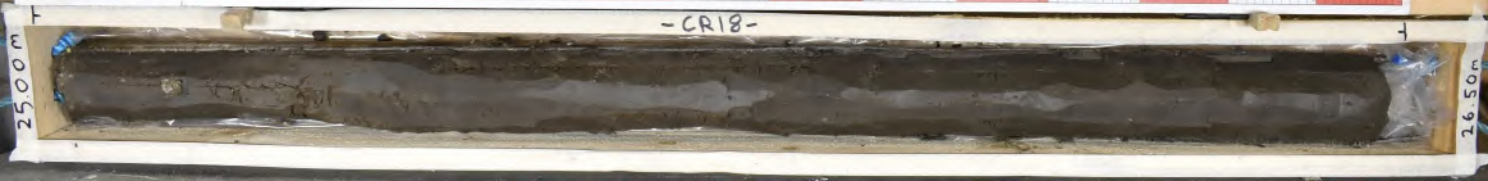
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 18
DEPTH TOP: 25.00 (m)

DATE: 27/08/19
BOX REF: 18
DEPTH BASE: 26.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 18 DEPTH TOP: 25.00 (m)

DATE: 03/09/19 BOX REF: 18 DEPTH BASE: 26.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 19
DEPTH TOP: 26.50 (m)
DATE: 27/08/19
BOX REF: 19
DEPTH BASE: 28.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 19 DEPTH TOP: 26.50 (m)

DATE: 03/09/19 BOX REF: 19 DEPTH BASE: 28.00 (m)

BASE

- CR19 -

26.50

28.00 m

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PHOTOGRAPHY BOARD

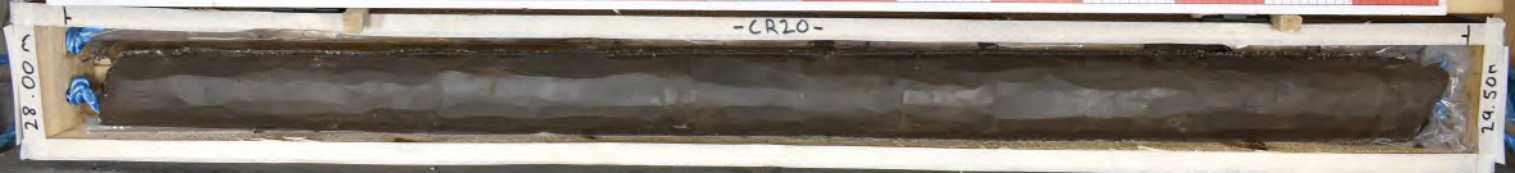
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 20 DEPTH TOP: 28.00 (m)

DATE: 27/08/19 BOX REF: 20 DEPTH BASE: 29.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 20 DEPTH TOP: 28.00 (m)

DATE: 03/09/19 BOX REF: 20 DEPTH BASE: 29.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

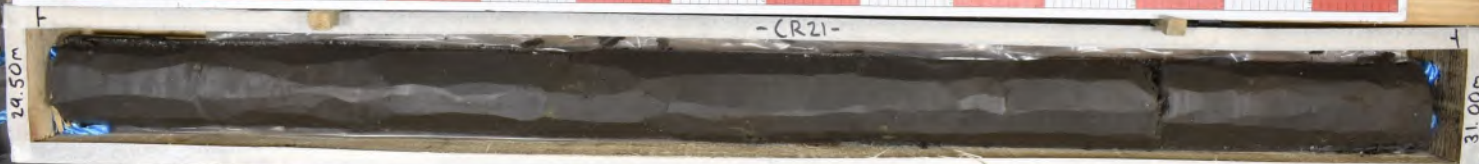
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 21
DEPTH TOP: 29.50 (m)
DATE: 27/08/19
BOX REF: 21
DEPTH BASE: 31.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 21 DEPTH TOP: 29.50 (m)

DATE: 03/09/19 BOX REF: 21 DEPTH BASE: 31.00 (m)

BASE

30.00m-09-30.05m -CR21-

29.50m

31.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

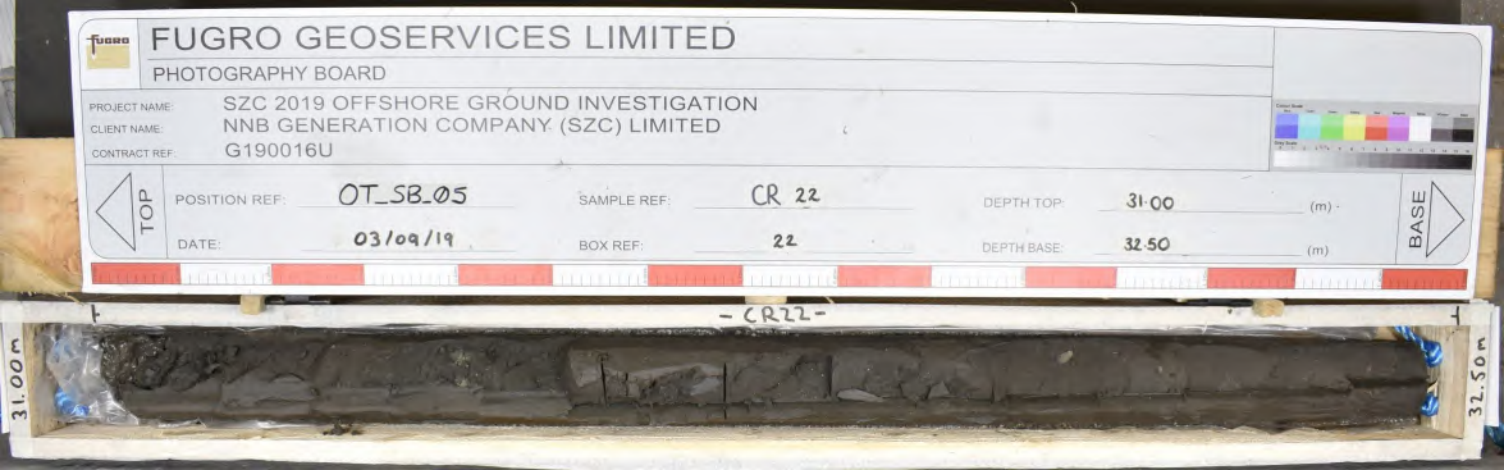
TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 22 DEPTH TOP: 31.00 (m)

DATE: 28/8/19 BOX REF: 22 DEPTH BASE: 32.50 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 22
DEPTH TOP: 31.00 (m)
DATE: 03/09/19
BOX REF: 22
DEPTH BASE: 32.50 (m)
BASE
- CR22 -
31.00m
32.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 23
DEPTH TOP: 32.50 (m)
DATE: 28/8/19
BOX REF: 23
DEPTH BASE: 34.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 23
DEPTH TOP: 32.50 (m)

DATE: 03/09/19
BOX REF: 23
DEPTH BASE: 34.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 24
DEPTH TOP: 34.00 (m)
DATE: 28/8/19
BOX REF: 24
DEPTH BASE: 35.50 (m)

BASE



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PHOTOGRAPHY BOARD

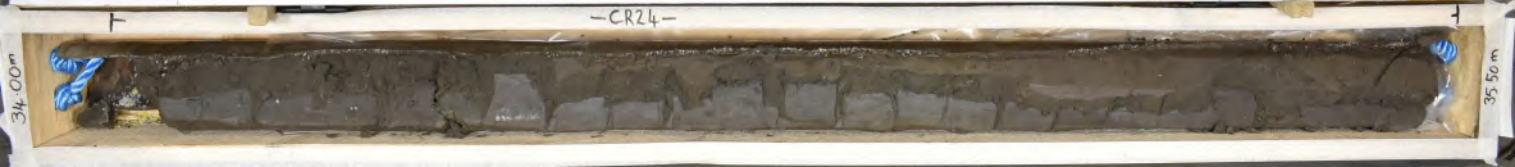
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 24
DEPTH TOP: 34.00 (m)

DATE: 03/09/19
BOX REF: 24
DEPTH BASE: 35.50 (m)

BASE



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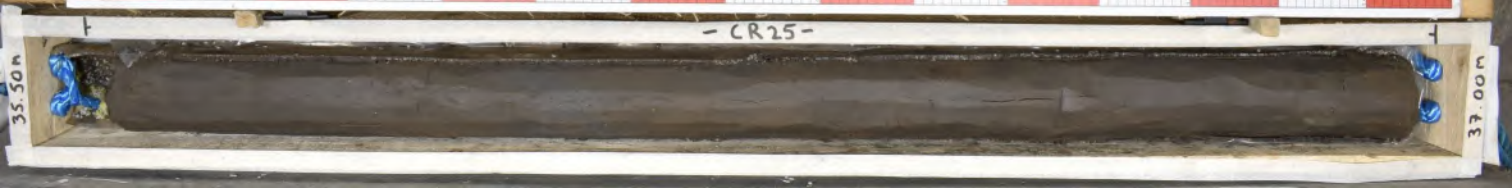
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 25
DEPTH TOP: 35.50 (m)
DATE: 28/8/19
BOX REF: 25
DEPTH BASE: 37.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 25
DEPTH TOP: 35.50 (m)
DATE: 03/09/19
BOX REF: 25
DEPTH BASE: 37.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 26
DEPTH TOP: 37.00 (m)

DATE: 28/8/19
BOX REF: 26
DEPTH BASE: 38.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 26 DEPTH TOP: 37·00 (m)

DATE: 03 / 09 / 19 BOX REF: 26 DEPTH BASE: 38·50 (m)

BASE

-CR26-

37.00m

38.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 27
DEPTH TOP: 38.50 (m)
DATE: 28/8/19
BOX REF: 27
DEPTH BASE: 40.00 (m)

BASE



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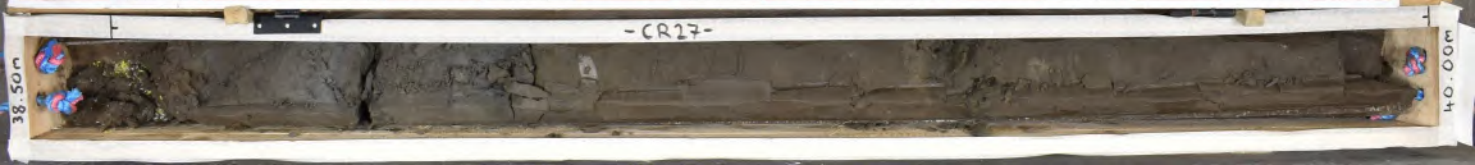
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 27
DEPTH TOP: 38.50 (m)
DATE: 03/09/19
BOX REF: 27
DEPTH BASE: 40.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 28
DEPTH TOP: 40.00 (m)

DATE: 28/8/19
BOX REF: 28
DEPTH BASE: 41.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 28 DEPTH TOP: 40.00 (m)

DATE: 03/09/19 BOX REF: 28 DEPTH BASE: 41.50 (m)

BASE

40.00m

—CR28—

41.50m

33.00

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

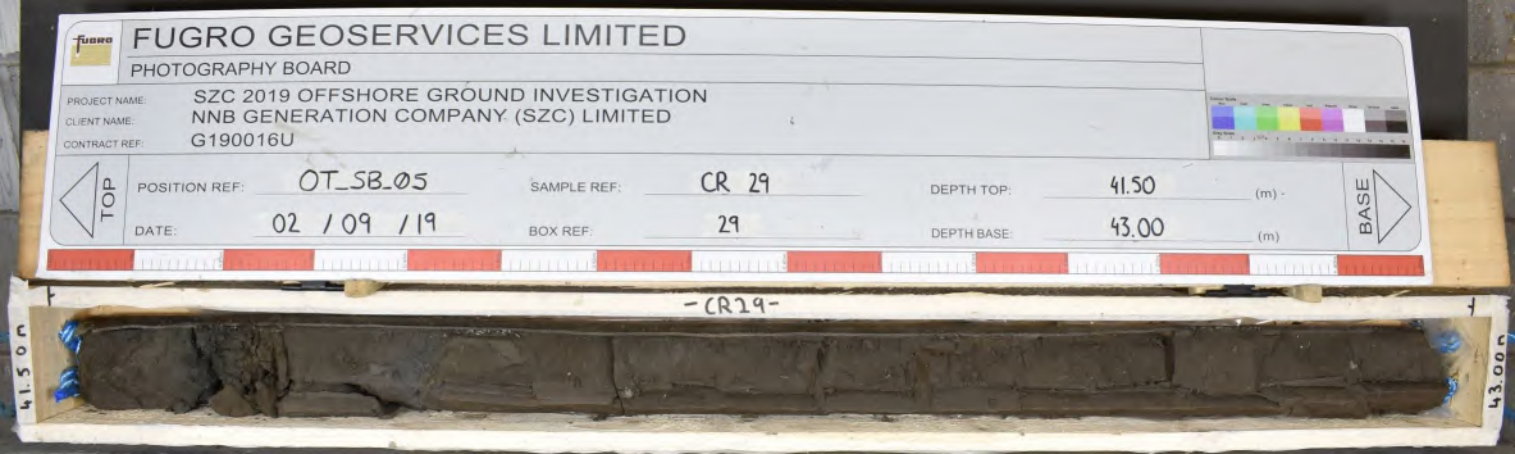
TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 29
DEPTH TOP: 41.50 (m)

DATE: 28/8/19
BOX REF: 29
DEPTH BASE: 43.00 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 29
DEPTH TOP: 41.50 (m)
DATE: 02 / 09 / 19
BOX REF: 29
DEPTH BASE: 43.00 (m)
BASE
-CR29-
41.50
43.00


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 30
DEPTH TOP: 43.00 (m)
DATE: 28/8/19
BOX REF: 30
DEPTH BASE: 44.50 (m)
BASE
T
-CR30-
T
43.00m
44.50m
NOTE: AZCL; 44.20m - 44.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 30
DEPTH TOP: 43.00 (m)
DATE: 02 / 09 / 19
BOX REF: 30
DEPTH BASE: 44.50 (m)
BASE
CR30
43.00m
44.50m
NOTE: AZCL; 44.20m - 44.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05

SAMPLE REF: CR 31

DEPTH TOP: 44.50 (m)

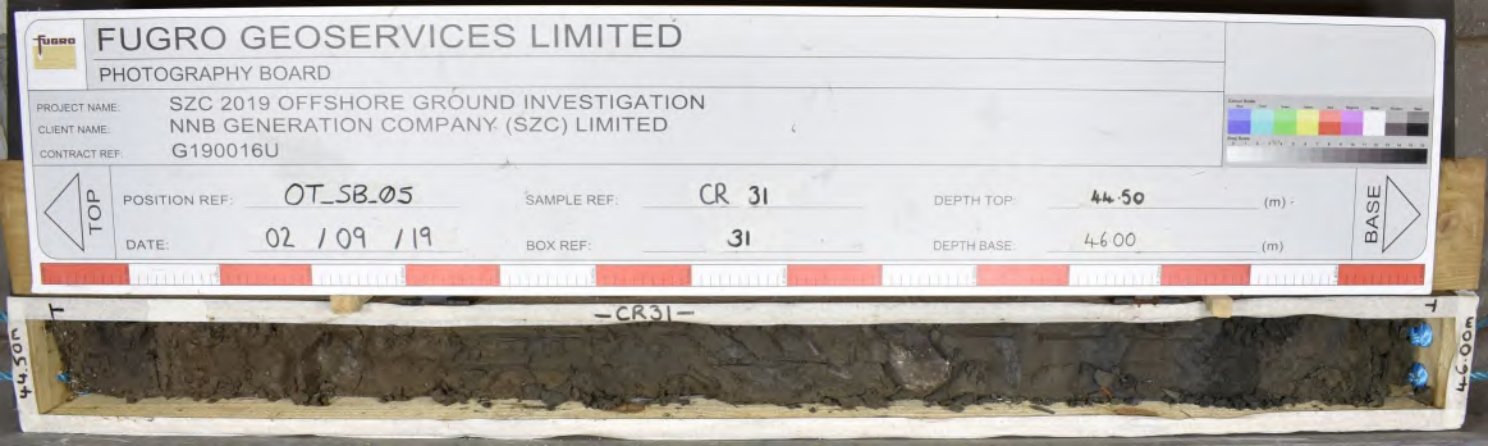
DATE: 28/8/19

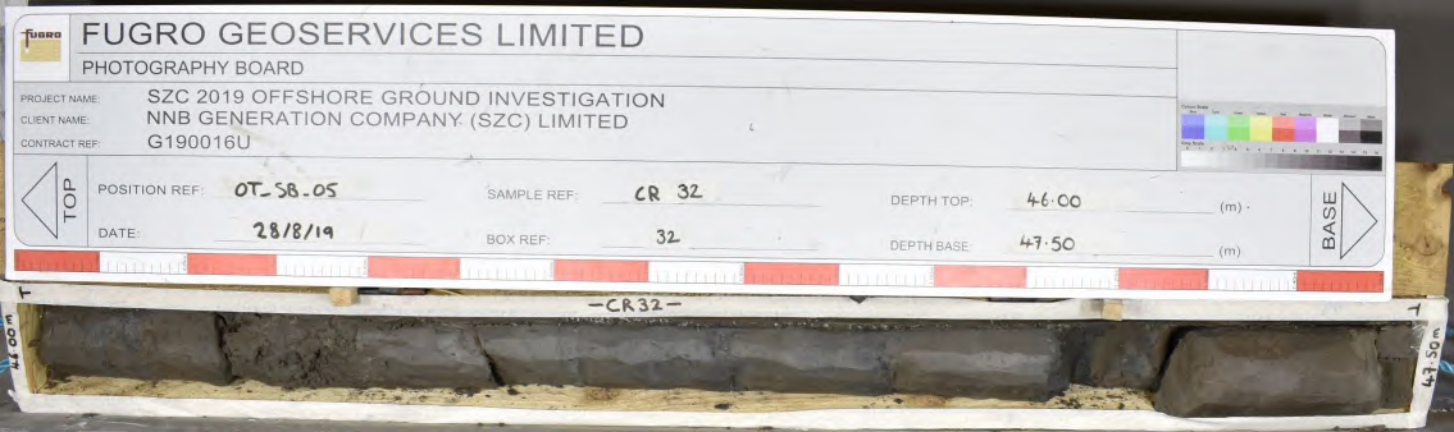
BOX REF: 31

DEPTH BASE: 46.00 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 31
DEPTH TOP: 44.50 (m)
DATE: 02 / 09 / 19
BOX REF: 31
DEPTH BASE: 46.00 (m)
BASE
T
-CR31-
T
44.50m
46.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 32
DEPTH TOP: 46·00 (m)
DATE: 28/8/19
BOX REF: 32
DEPTH BASE: 47·50 (m)
BASE
-CR32-
1.00m
1.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05

SAMPLE REF: CR 32

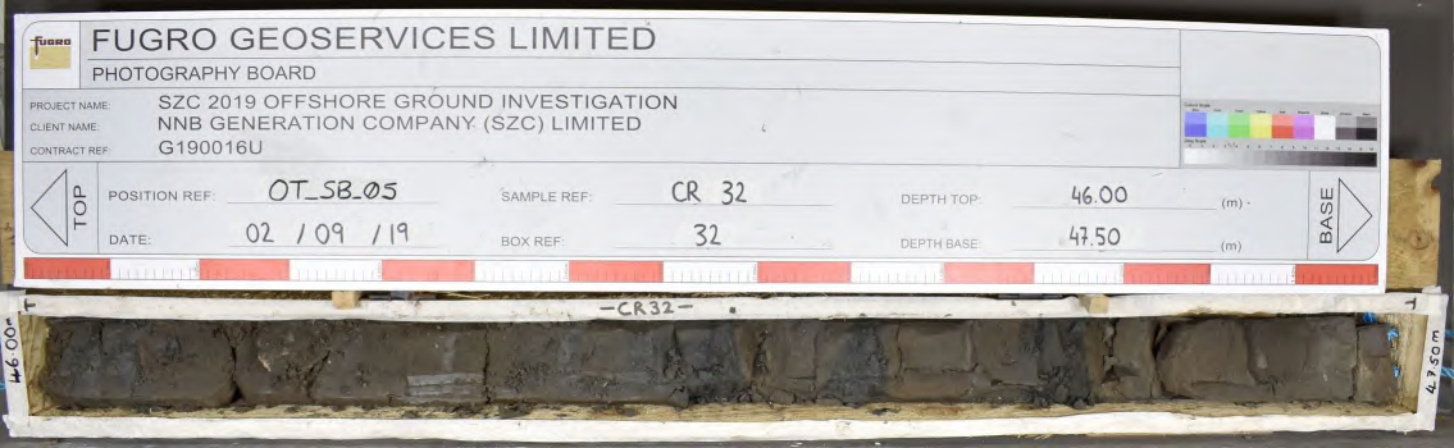
DEPTH TOP: 46.00 (m)

DATE: 02 / 09 / 19

BOX REF: 32

DEPTH BASE: 47.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 33 DEPTH TOP: 47.50 (m)

DATE: 28/8/19 BOX REF: 33 DEPTH BASE: 49.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 33
DEPTH TOP: 47.50 (m)

DATE: 02 / 09 / 19
BOX REF: 33
DEPTH BASE: 49.00 (m)

BASE

-CR33- 48.05m -CR33- AZCL

47.50m

49.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05 SAMPLE REF: CR 34 DEPTH TOP: 49.00 (m)

DATE: 03/09/19 BOX REF: – DEPTH BASE: 50.50 (m)

BASE

– CR34 –

49.00 m

50.50 m

– *NO RECOVERY* –

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 35
DEPTH TOP: 50·50 (m)
DATE: 28/8/19
BOX REF: 34
DEPTH BASE: 52·00 (m)

BASE

51.10m + -CR35- AZCL

50.50m

52.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

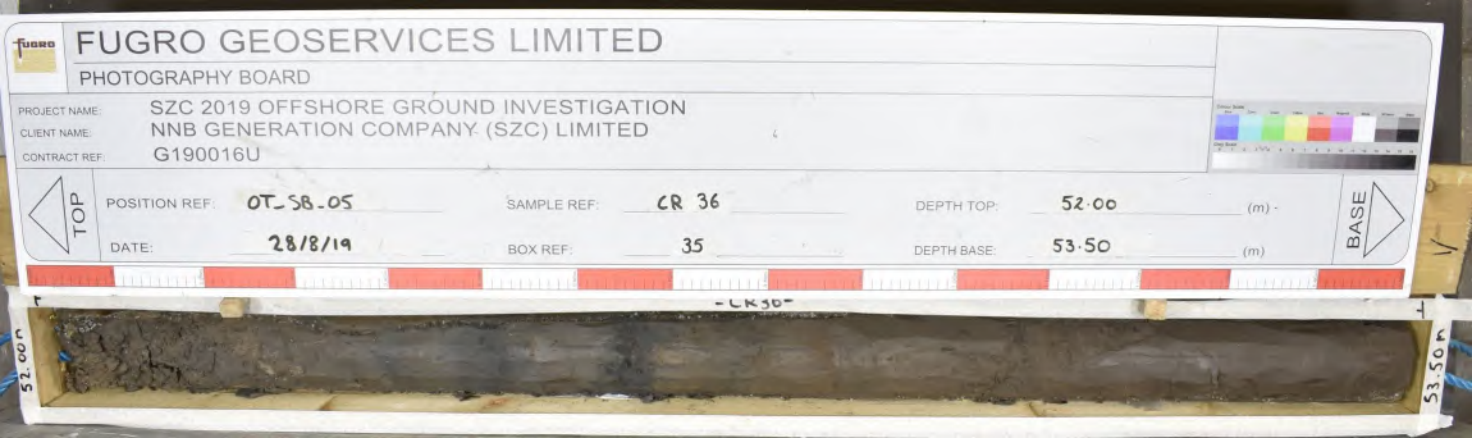
POSITION REF: OT_SB_05
SAMPLE REF: CR 35
DEPTH TOP: 50.50 (m)
DATE: 03 / 09 / 19
BOX REF: 34
DEPTH BASE: 52.00 (m)

BASE

51.10m + -CR35- AZCL

50.50m

52.00m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_05
SAMPLE REF: CR 36
DEPTH TOP: 52.00 (m)
DATE: 28/8/19
BOX REF: 35
DEPTH BASE: 53.50 (m)
BASE
-CR36-
52.00m
53.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
DATE: 02 / 09 / 19
SAMPLE REF: CR 36
BOX REF: 35
DEPTH TOP: 52.00 (m)
DEPTH BASE: 53.50 (m)

BASE

-CR36-

52.00m

53.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
SAMPLE REF: CR 37
DEPTH TOP: 53.50 (m)
DATE: 28/8/19
BOX REF: 36
DEPTH BASE: 55.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_05
DATE: 02 / 09 / 19
SAMPLE REF: CR 37
BOX REF: 36
DEPTH TOP: 53.50 (m)
DEPTH BASE: 55.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 01
DEPTH TOP: 0.00 (m)

DATE: 04/09/19
BOX REF: 1
DEPTH BASE: 0.50 (m)

BASE



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PHOTOGRAPHY BOARD

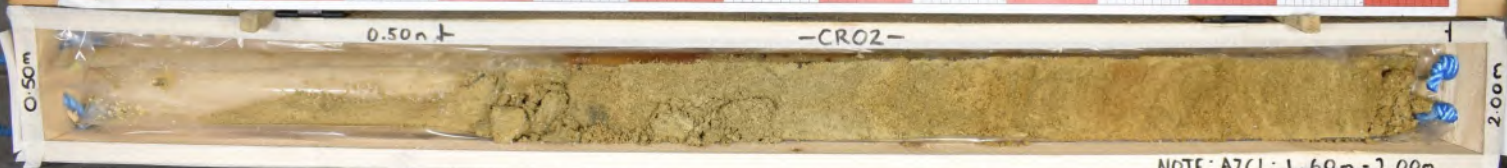
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 02 DEPTH TOP: 0.50 (m)

DATE: 04/09/19 BOX REF: 2 DEPTH BASE: 2.00 (m)

BASE



NOTE: AZCL: 1.60m - 2.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_06
SAMPLE REF: CR 03
DEPTH TOP: 2.00 (m)
DATE: 04/09/19
BOX REF: 3
DEPTH BASE: 3.50 (m)

BASE



NOTE: AZCL: 3.10m - 3.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 04
DEPTH TOP: 3.50 (m)

DATE: 04/09/19
BOX REF: 4
DEPTH BASE: 5.00 (m)

BASE



NOTE: AZCL: 4.50m - 5.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 05 DEPTH TOP: 5.00 (m)

DATE: 05/09/19 BOX REF: 5 DEPTH BASE: 6.50 (m)

BASE



NOTE: AZCL: 6.25m - 6.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06

SAMPLE REF: CR 06

DEPTH TOP: 6.50 (m)

DATE: 05/09/19

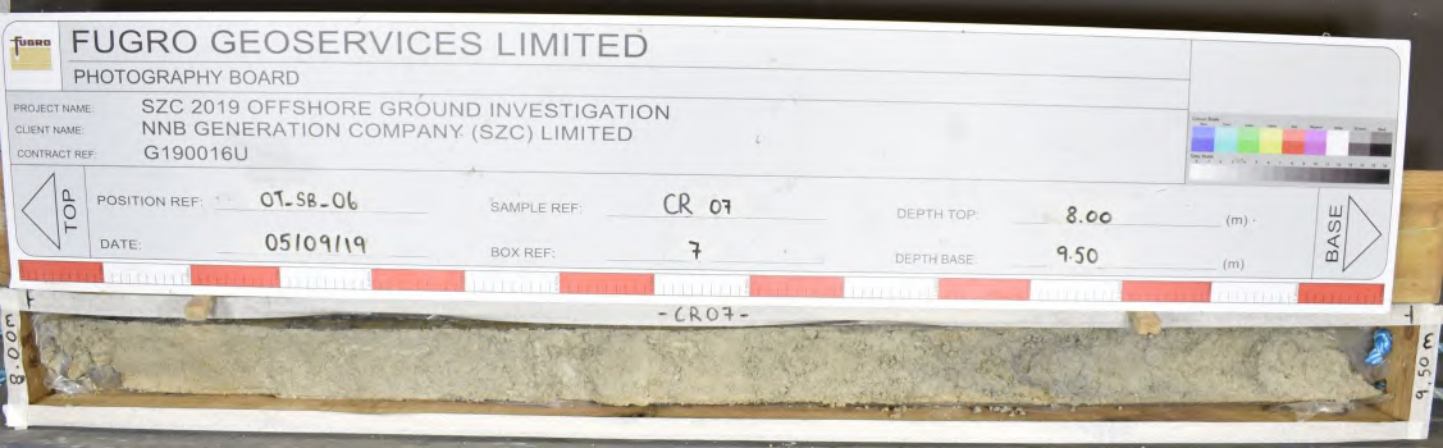
BOX REF: 06

DEPTH BASE: 8.00 (m)

BASE



NOTE: AZCL: 7.10m - 8.00m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT-SB-06
SAMPLE REF: CR 07
DEPTH TOP: 8.00 (m)
DATE: 05/09/19
BOX REF: 7
DEPTH BASE: 9.50 (m)
BASE
-CR07-
8.00m
9.50m

FUGRO GEOSERVICES LIMITED

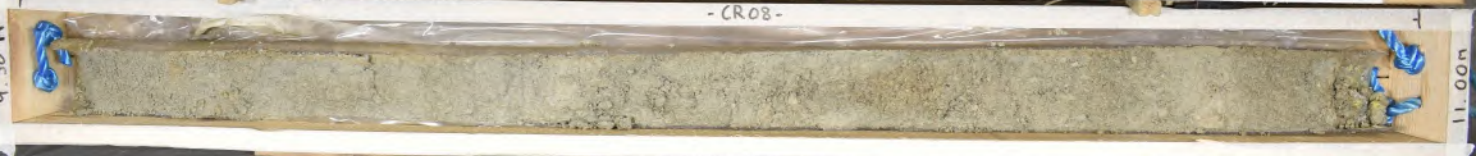
PHOTOGRAPHY BOARD

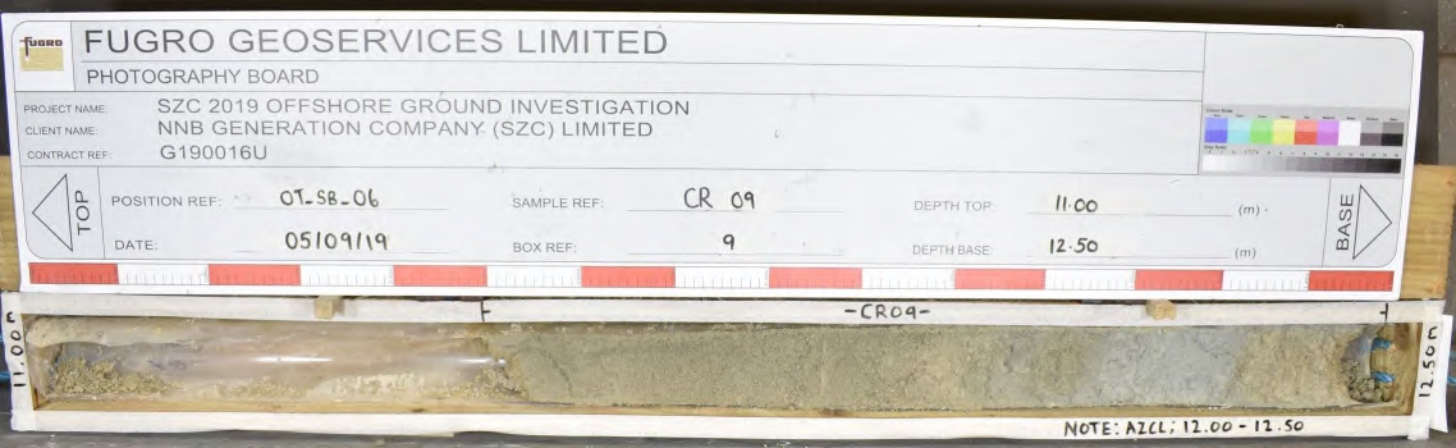
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
DATE: 05/09/19
SAMPLE REF: CR 08
BOX REF: 8
DEPTH TOP: 9.50 (m)
DEPTH BASE: 11.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: 07-SB-06
SAMPLE REF: CR 09
DEPTH TOP: 11.00 (m)
DATE: 05/09/19
BOX REF: 9
DEPTH BASE: 12.50 (m)
BASE
-CR09-
11.00
12.50
NOTE: AZCL; 12.00 - 12.50

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 10 DEPTH TOP: 12.50 (m)

DATE: 05/09/19 BOX REF: 10 DEPTH BASE: 14.00 (m)

BASE



NOTE: AZCL; 13.70m - 14.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 11
DEPTH TOP: 14.00 (m)
DATE: 05/09/19
BOX REF: 11
DEPTH BASE: 15.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 12 DEPTH TOP: 15.50 (m)

DATE: 05/09/19 BOX REF: 12 DEPTH BASE: 17.00 (m)

BASE

-CR12-

15.50m

17.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_06
SAMPLE REF: CR 13
DEPTH TOP: 17.00 (m)

DATE: 05/09/19
BOX REF: 13
DEPTH BASE: 18.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06

SAMPLE REF: CR 14

DEPTH TOP: 18.50 (m)

DATE: 05/09/19

BOX REF: 14

DEPTH BASE: 20.00 (m)

BASE

-CR14-

18.50m

20.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 15
DEPTH TOP: 20.00 (m)

DATE: 05/09/19
BOX REF: 15
DEPTH BASE: 21.50 (m)

BASE

-CR15-

20.00m

21.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06
SAMPLE REF: CR 16
DEPTH TOP: 21.50 (m)
DATE: 05/09/19
BOX REF: 16
DEPTH BASE: 23.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

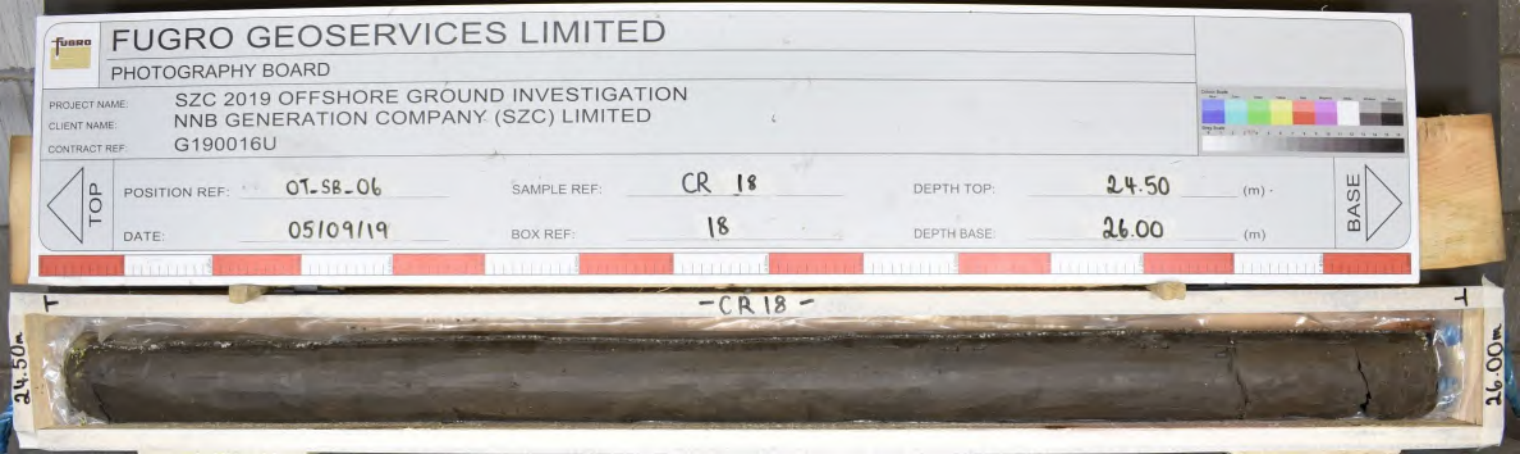
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

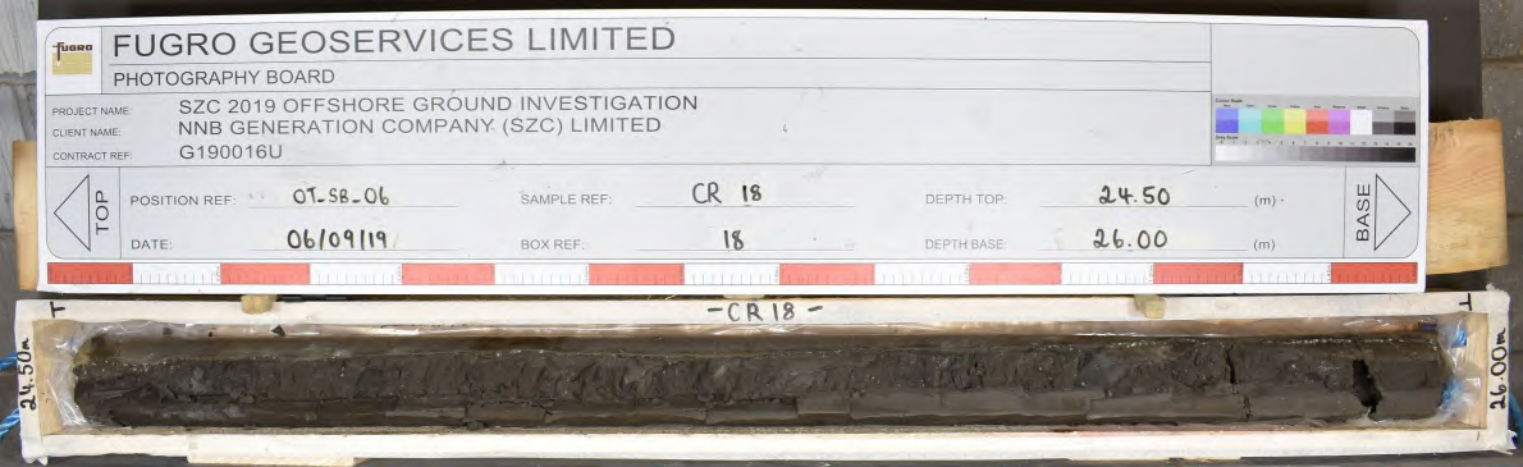
TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 17
DEPTH TOP: 23.00 (m)
DATE: 05/09/19
BOX REF: 17
DEPTH BASE: 24.50 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_06
SAMPLE REF: CR 18
DEPTH TOP: 24.50 (m)
DATE: 05/09/19
BOX REF: 18
DEPTH BASE: 26.00 (m)
BASE
-CR18-
24.50m
26.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT-SB-06
SAMPLE REF: CR 18
DEPTH TOP: 24.50 (m)
DATE: 06/09/19
BOX REF: 18
DEPTH BASE: 26.00 (m)
BASE
-CR 18-
24.50m
26.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 19 DEPTH TOP: 26.00 (m)

DATE: 05/09/19 BOX REF: 19 DEPTH BASE: 27.50 (m)

BASE

-CR19-

26.00m

27.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 19 DEPTH TOP: 26.00 (m)

DATE: 06/09/19 BOX REF: 19 DEPTH BASE: 27.50 (m)

BASE

-CR19-

26.00m

27.50m

FUGRO GEOSERVICES LIMITED

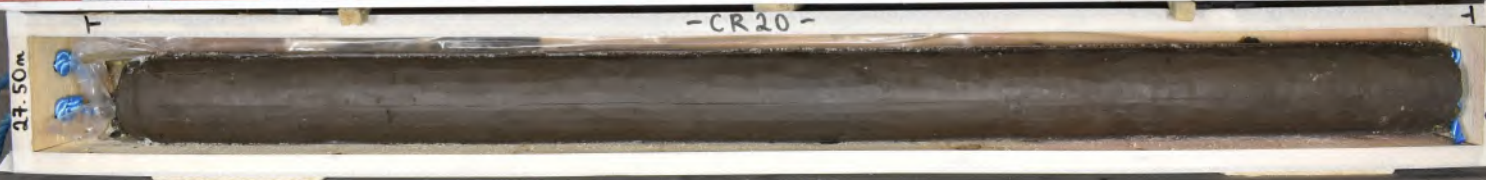
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 20
DEPTH TOP: 27.50 (m)
DATE: 05/09/19
BOX REF: 20
DEPTH BASE: 29.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

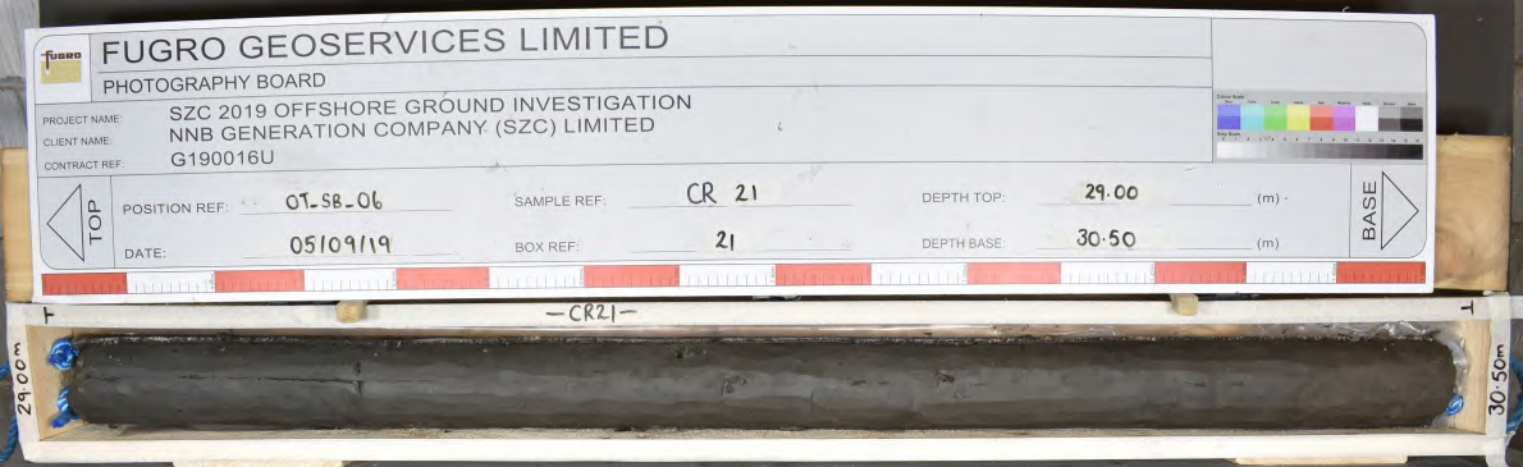
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 20
DEPTH TOP: 27.50 (m)
DATE: 06/09/19
BOX REF: 20
DEPTH BASE: 29.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_06
SAMPLE REF: CR 21
DEPTH TOP: 29.00 (m)
DATE: 05/09/19
BOX REF: 21
DEPTH BASE: 30.50 (m)
BASE
CR21
29.00m
30.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06

SAMPLE REF: CR 21

DEPTH TOP: 29.00 (m)

DATE: 06/09/19

BOX REF: 21

DEPTH BASE: 30.50 (m)

BASE

—CR21—

29.00m

30.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

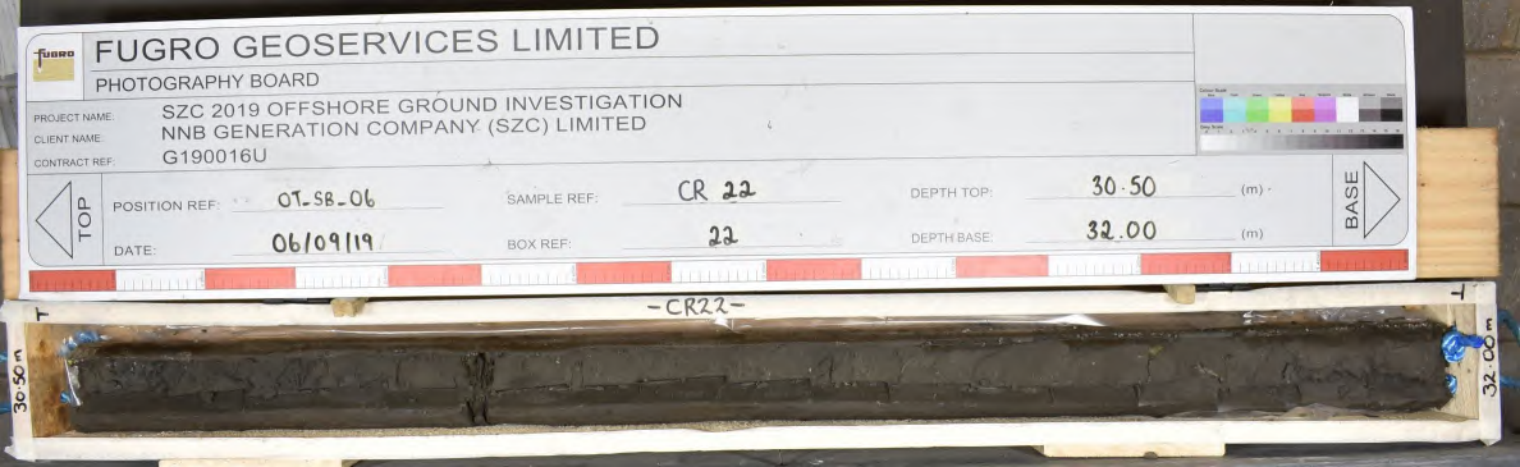
TOP

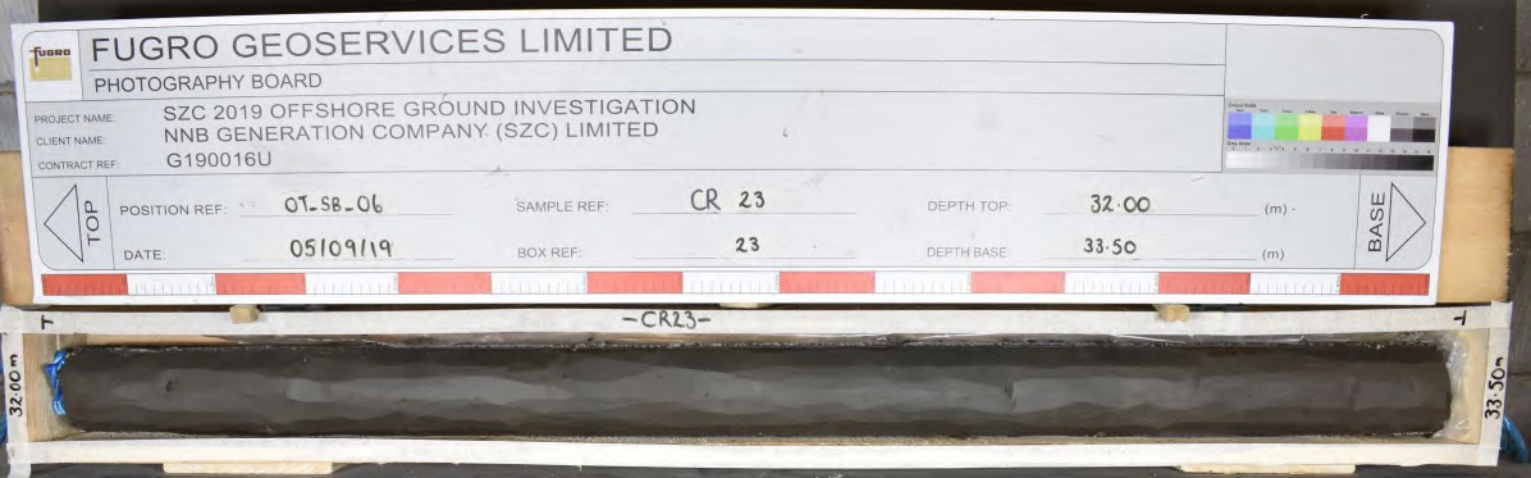
POSITION REF: 07-SB-06
SAMPLE REF: CR 22
DEPTH TOP: 30.50 (m)

DATE: 05/09/19
BOX REF: 22
DEPTH BASE: 32.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT-SB-06
SAMPLE REF: CR 22
DEPTH TOP: 30.50 (m)
DATE: 06/09/19
BOX REF: 22
DEPTH BASE: 32.00 (m)
BASE
-CR22-
30.50 m
32.00 m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: 07-SB-06
SAMPLE REF: CR 23
DEPTH TOP: 32.00 (m)
DATE: 05/09/19
BOX REF: 23
DEPTH BASE: 33.50 (m)
BASE
-CR23-
32.00m
33.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06

SAMPLE REF: CR 23

DEPTH TOP: 32.00 (m)

DATE: 06/09/19

BOX REF: 23

DEPTH BASE: 33.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 24 DEPTH TOP: 38.00 (m)

DATE: 05/09/19 BOX REF: 24 DEPTH BASE: 39.50 (m)

BASE

-CR27-

38.00m

39.50m

NOTE: AZCL: 39.40m - 39.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 24
DEPTH TOP: 33.50 (m)
DATE: 06/09/19
BOX REF: 24
DEPTH BASE: 35.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 25 DEPTH TOP: 35.00 (m)

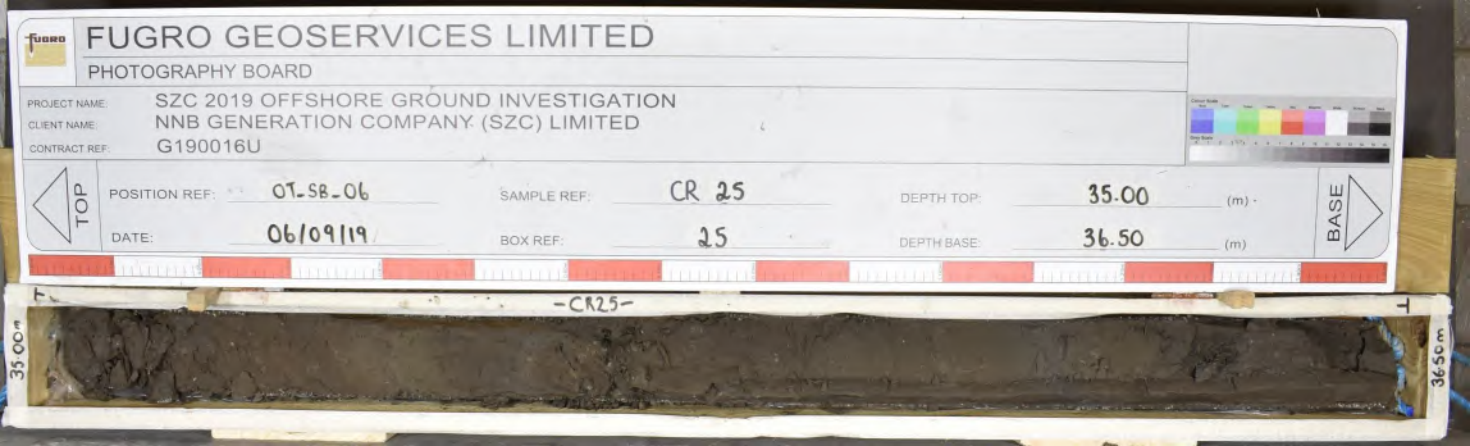
DATE: 05109/19 BOX REF: 25 DEPTH BASE: 36.50 (m)

BASE

-CR25-

35.00m

36.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: 07-SB-06
SAMPLE REF: CR 25
DEPTH TOP: 35.00 (m)
DATE: 06/09/19
BOX REF: 25
DEPTH BASE: 36.50 (m)
BASE
-CR25-
35.00m
36.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06

SAMPLE REF: CR 26

DEPTH TOP: 36.50 (m)

DATE: 05109/19

BOX REF: 26

DEPTH BASE: 38.00 (m)

BASE

T

-CR26-



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 26
DEPTH TOP: 36.50 (m)
DATE: 06/09/19
BOX REF: 26
DEPTH BASE: 38.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

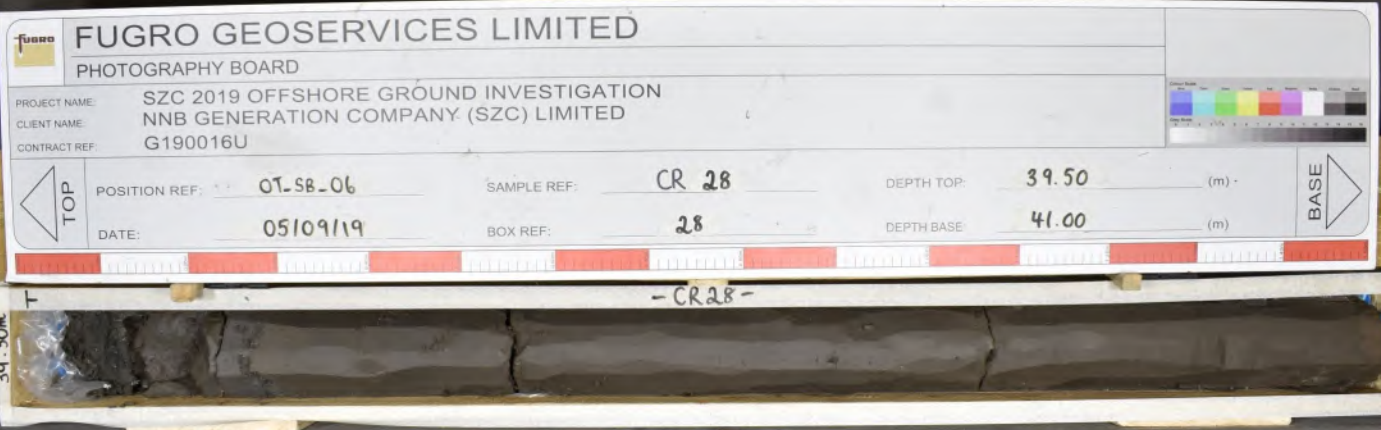
POSITION REF: 07-SB-06 SAMPLE REF: CR 27 DEPTH TOP: 38.00 (m)

DATE: 06/09/19 BOX REF: 27 DEPTH BASE: 39.50 (m)

BASE



NOTE: AZCL: 39.40m - 39.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: 07-SB-06
SAMPLE REF: CR 28
DEPTH TOP: 39.50 (m)
DATE: 05/09/19
BOX REF: 28
DEPTH BASE: 41.00 (m)
BASE
- CR28 -
39.50m
41.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 28 DEPTH TOP: 39.50 (m)

DATE: 06/09/19 BOX REF: 28 DEPTH BASE: 41.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 29
DEPTH TOP: 41.00 (m)

DATE: 05/09/19
BOX REF: 29
DEPTH BASE: 42.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06
SAMPLE REF: CR 29
DEPTH TOP: 41.00 (m)

DATE: 06/09/19
BOX REF: 29
DEPTH BASE: 42.50 (m)

BASE

- CR29 -

41.00m

42.50m

FUGRO

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06
SAMPLE REF: CR 30
DEPTH TOP: 42.50 (m)

DATE: 06/09/19
BOX REF: 30
DEPTH BASE: 44.00 (m)

BASE



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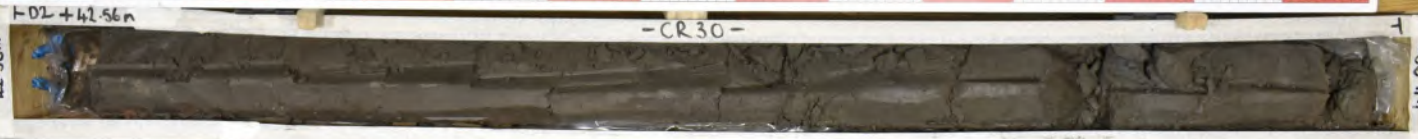
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06 SAMPLE REF: CR 30 DEPTH TOP: 42.50 (m)
DATE: 06/09/19 BOX REF: 30 DEPTH BASE: 44.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 31
DEPTH TOP: 44.00 (m)
DATE: 06/09/19
BOX REF: 31
DEPTH BASE: 45.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06

DATE: 06/09/19

SAMPLE REF: CR 31

BOX REF: 31

DEPTH TOP: 44.00 (m)

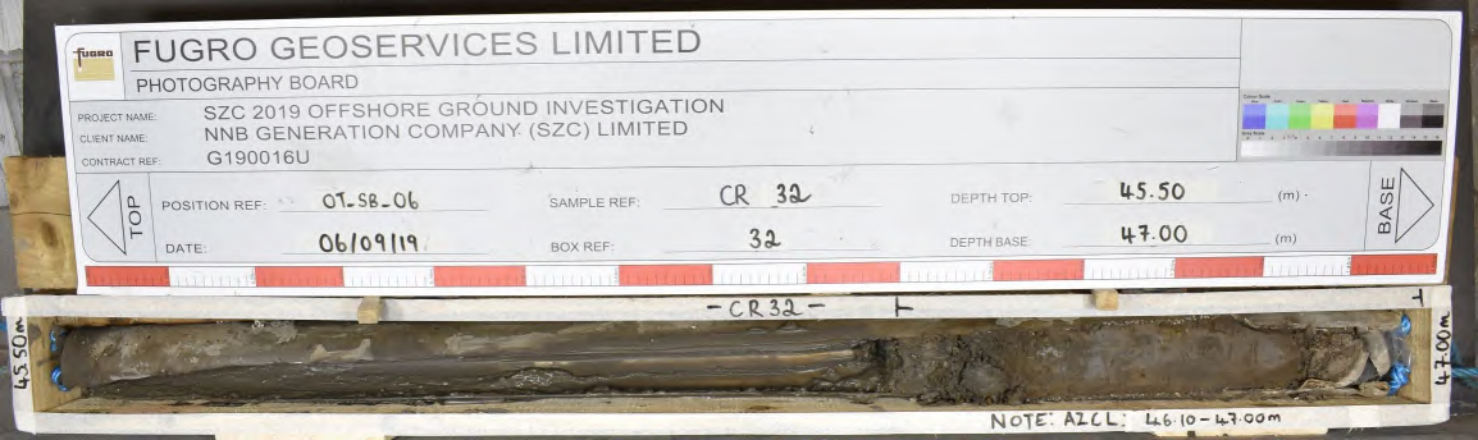
DEPTH BASE: 45.50 (m)

BASE

-CR 31-

44.00m

45.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: 07-SB-06
SAMPLE REF: CR 32
DEPTH TOP: 45.50 (m)
DATE: 06/09/19
BOX REF: 32
DEPTH BASE: 47.00 (m)
BASE
-CR32-
45.50m
47.00m
NOTE: AZCL: 46.10-47.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 32
DEPTH TOP: 45.50 (m)

DATE: 06/09/19
BOX REF: 32
DEPTH BASE: 47.00 (m)

BASE



NOTE: AZCL: 46.10 - 47.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06

SAMPLE REF: CR 33

DEPTH TOP: 47.00 (m)

DATE: 06/09/19

BOX REF: 33

DEPTH BASE: 48.50 (m)

BASE

-CR33-

47.00m

48.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

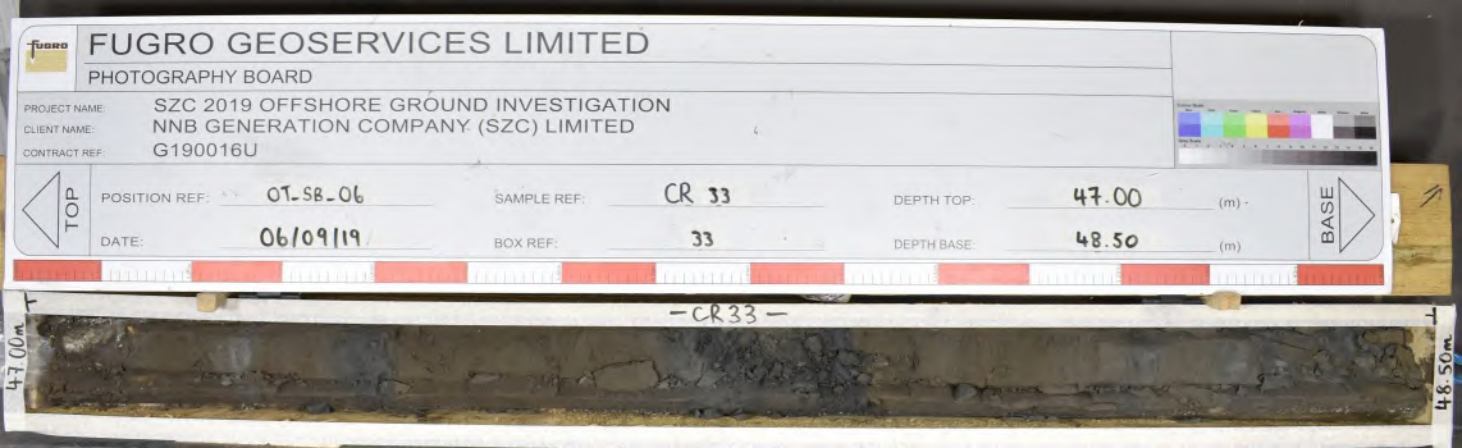
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06 SAMPLE REF: CR 33 DEPTH TOP: 47.00 (m)

DATE: 06/09/19 BOX REF: 33 DEPTH BASE: 48.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
DATE: 06/09/19
SAMPLE REF: CR 34
BOX REF: 34
DEPTH TOP: 48.50 (m)
DEPTH BASE: 50.00 (m)

BASE



NOTE: AZCL: 49.90m - 50.00m

FUGRO GEOSERVICES LIMITED

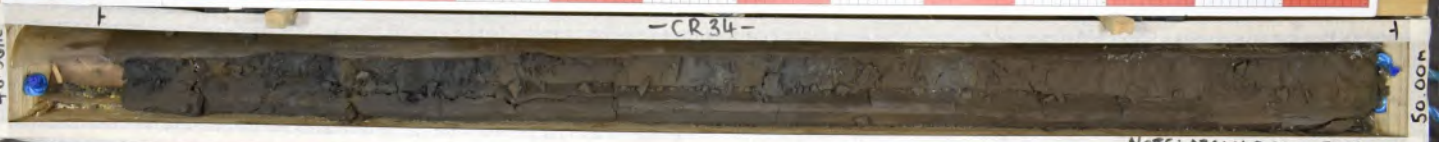
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06
SAMPLE REF: CR 34
DEPTH TOP: 48.50 (m)
DATE: 06/09/19
BOX REF: 34
DEPTH BASE: 50.00 (m)

BASE



NOTE: AZCL: 49.90m - 50.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: 01-SB-06 SAMPLE REF: CR 35 DEPTH TOP: 50.00 (m)

DATE: 06/09/19 BOX REF: 35 DEPTH BASE: 51.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 35
DEPTH TOP: 50.00 (m)

DATE: 06/09/19
BOX REF: 35
DEPTH BASE: 51.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-06

DATE: 06/09/19

SAMPLE REF: CR 36

BOX REF: 36

DEPTH TOP: 51.50 (m)

DEPTH BASE: 53.00 (m)

BASE

-CR36-

51.50m

53.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 36
DEPTH TOP: 51.50 (m)

DATE: 06/09/19
BOX REF: 36
DEPTH BASE: 53.00 (m)

BASE

-CR36-

51.50m

53.00m

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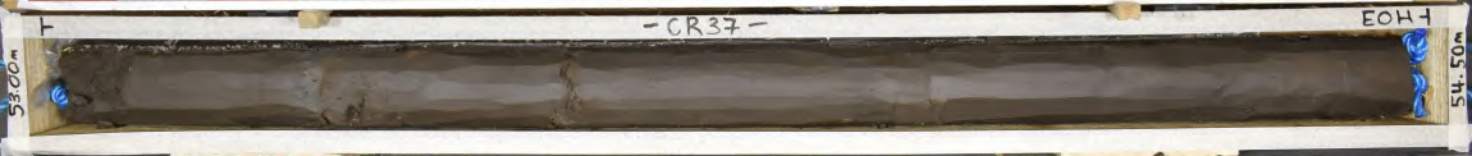
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 37
DEPTH TOP: 53.00 (m)
DATE: 06/09/19
BOX REF: 37
DEPTH BASE: 54.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: 07-SB-06
SAMPLE REF: CR 37
DEPTH TOP: 53.00 (m)

DATE: 06/09/19
BOX REF: 37
DEPTH BASE: 54.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 1
DEPTH TOP: 0.00 (m)

DATE: 13 / 07 / 19
BOX REF: Box 1
DEPTH BASE: 1.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 2
BOX REF: BOX 2
DEPTH TOP: 1.50 (m)
DEPTH BASE: 3.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 3
DEPTH TOP: 3.00 (m)

DATE: 13 / 07 / 19
BOX REF: BOX 3
DEPTH BASE: 4.50 (m)

BASE



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PHOTOGRAPHY BOARD

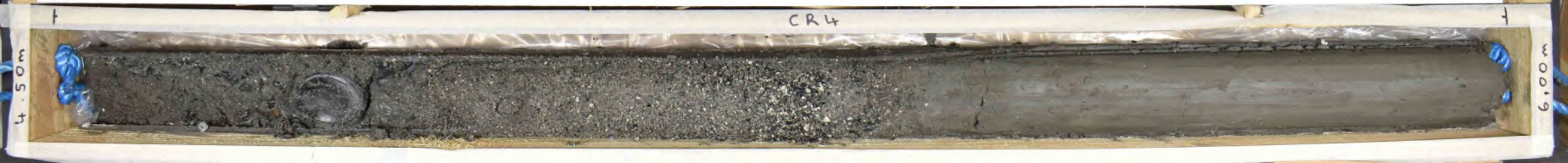
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 4
DEPTH TOP: 4.50 (m)

DATE: 13/07/19
BOX REF: Box 4
DEPTH BASE: 6.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13/07/19
SAMPLE REF: CR 5
BOX REF: Box 5
DEPTH TOP: 6.00 (m)
DEPTH BASE: 7.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 6
BOX REF: BOX 6
DEPTH TOP: 7.50 (m)
DEPTH BASE: 9.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 7
DEPTH TOP: 9.00 (m)

DATE: 13 / 07 / 19
BOX REF: BOX 7
DEPTH BASE: 10.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 8
BOX REF: Box 8
DEPTH TOP: 10.50 (m)
DEPTH BASE: 12.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 9
BOX REF: BOx 9
DEPTH TOP: 12.00 (m)
DEPTH BASE: 13.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 10
BOX REF: Box 10
DEPTH TOP: 13.50 (m)
DEPTH BASE: 15.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 11
DEPTH TOP: 15.00 (m)

DATE: 13 / 07 / 19
BOX REF: Box 11
DEPTH BASE: 16.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 12
BOX REF: Box 12
DEPTH TOP: 16.50 (m)
DEPTH BASE: 18.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 13 / 07 / 19
SAMPLE REF: CR 13
BOX REF: Box 13
DEPTH TOP: 18.00 (m)
DEPTH BASE: 19.50 (m)

BASE



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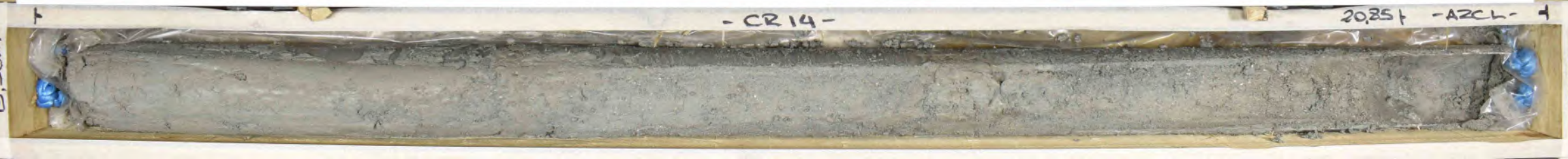
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 14/07/19
SAMPLE REF: CR 14
BOX REF: Box 14
DEPTH TOP: 19.50 (m)
DEPTH BASE: 21.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
DATE: 14/07/19
SAMPLE REF: CR 15
BOX REF: Box 15
DEPTH TOP: 21.00 (m)
DEPTH BASE: 22.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)

DATE: 14/07/19
BOX REF: BOX 16
DEPTH BASE: 24.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 17
DEPTH TOP: 24.00 (m)
DATE: 14/07/19
BOX REF: Box 17
DEPTH BASE: 25.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)

DATE: 14/07/19
BOX REF: BOX 18
DEPTH BASE: 27.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)

DATE: 17/10/19
BOX REF: 18
DEPTH BASE: 27.00 (m)

BASE

-CR 18-

25.50m

27.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)

DATE: 14/07/19
BOX REF: Box 19
DEPTH BASE: 28.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_07
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)
DATE: 17/10/19
BOX REF: 19
DEPTH BASE: 28.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 01
DEPTH TOP: 27.40 (m)
DATE: 14/10/19
BOX REF: 01
DEPTH BASE: 28.00 (m)

BASE

-CR01-

27.40m

28.00m

DISTURBED CORE RECOVERED FROM 7" CASING


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 1
DEPTH TOP: 27.40 (m)
DATE: 23 / 08 / 19
BOX REF: 1
DEPTH BASE: 28.00 (m)
BASE
-CR1-
+28.00m
27.40
28.00
DISTURBED CORE RECOVERED FROM 7"


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 02
DEPTH TOP: 28.00 (m)
DATE: 14/10/19
BOX REF: 02
DEPTH BASE: 29.00 (m)
BASE
SPT
-CR02-
29.00m
28.00m
29.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
DATE: 23 / 08 / 19
SAMPLE REF: CR 2
BOX REF: 2
DEPTH TOP: 28.00 (m)
DEPTH BASE: 29.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 03
DEPTH TOP: 29.00 (m)
DATE: 14/10/19
BOX REF: 03
DEPTH BASE: 30.50 (m)

BASE

-CR03-

29.00m

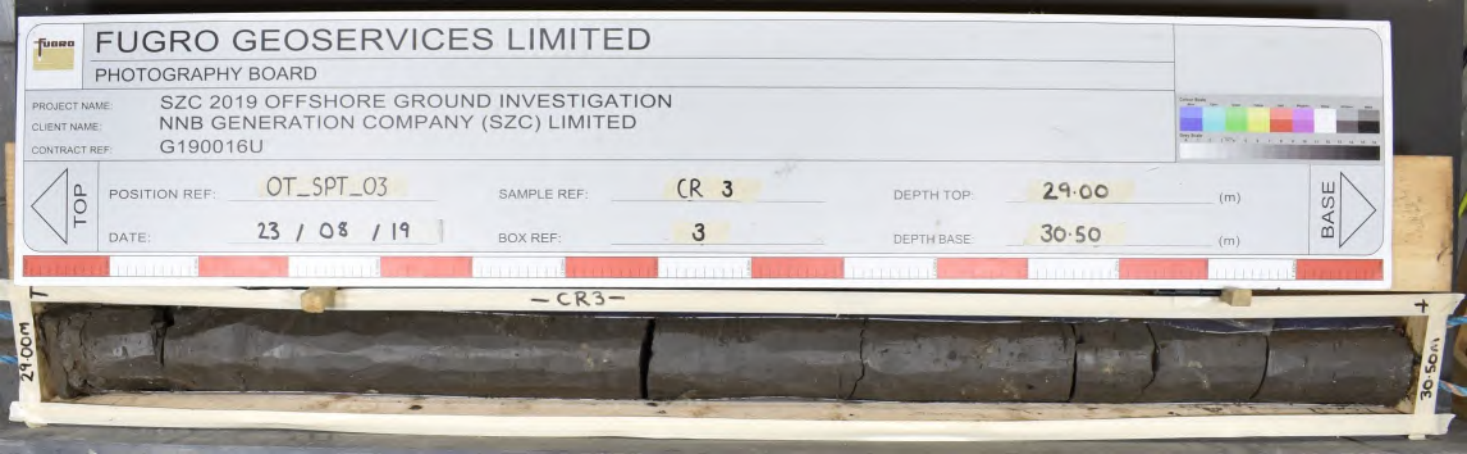
30.50m

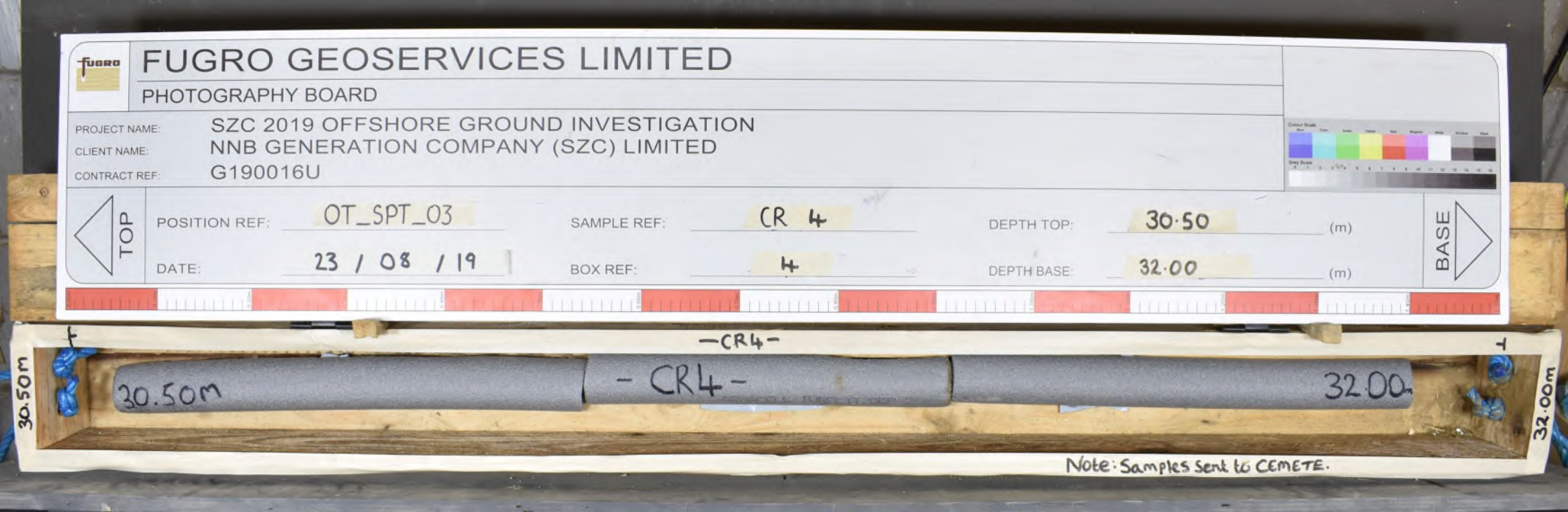
29.15 C1 TRIAXIAL 29.45

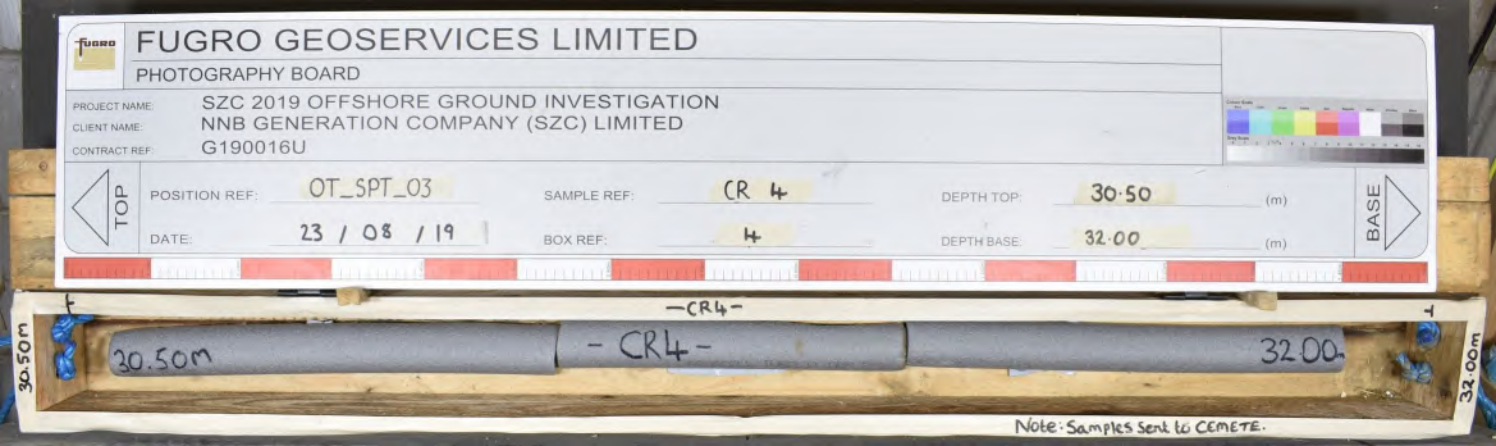
C1 Triaxial: 29.45-29.82m

29.15m of C1 SAMPLE FOR TRIAXIAL TEST: 29.15-29.82m

+29.82m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 3
DEPTH TOP: 29.00 (m)
DATE: 23 / 08 / 19
BOX REF: 3
DEPTH BASE: 30.50 (m)
BASE
T
— CR3 —
+
29.00m
30.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 4
DEPTH TOP: 30·50 (m)
DATE: 23 / 08 / 19
BOX REF: 4
DEPTH BASE: 32·00 (m)
BASE
-CR4-
30.50m
- CR4 -
32.00
30.50m
32.00m
Note: Samples sent to CEMETE.


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 4
DEPTH TOP: 30·50 (m)
DATE: 23 / 08 / 19
BOX REF: 4
DEPTH BASE: 32·00 (m)
BASE
-CR4-
30.50m
- CR4 -
32.00m
30.50m
32.00m
Note: Samples sent to CEMETE.

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

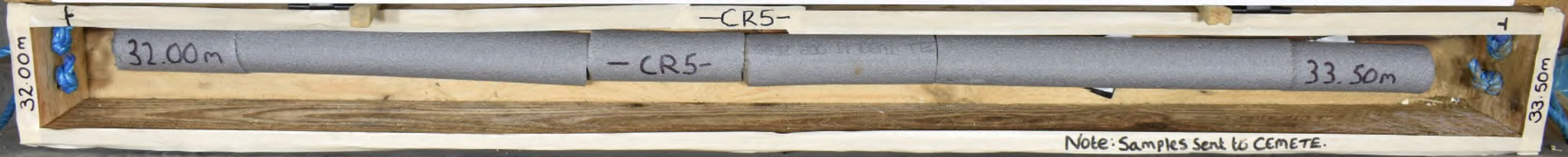
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 5
DEPTH TOP: 32.00 (m)

DATE: 24/08/19
BOX REF: 5
DEPTH BASE: 33.50 (m)

BASE



Note: Samples sent to CEMETE.

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 5
DEPTH TOP: 32.00 (m)
DATE: 24/08/19
BOX REF: 5
DEPTH BASE: 33.50 (m)

BASE



Note: Samples sent to CEMETE.

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 6
DEPTH TOP: 33.50 (m)

DATE: 24/08/19
BOX REF: 6
DEPTH BASE: 35.00 (m)

BASE



Note: Samples sent to CEMETE.

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 07
DEPTH TOP: 35.00 (m)
DATE: 15/10/19
BOX REF: 07
DEPTH BASE: 36.50 (m)

BASE

-CR07-

35.00m

36.50m

D6 & C7
35.21-35.26
35.26-35.32

35.26 D6 & C7 35.37m

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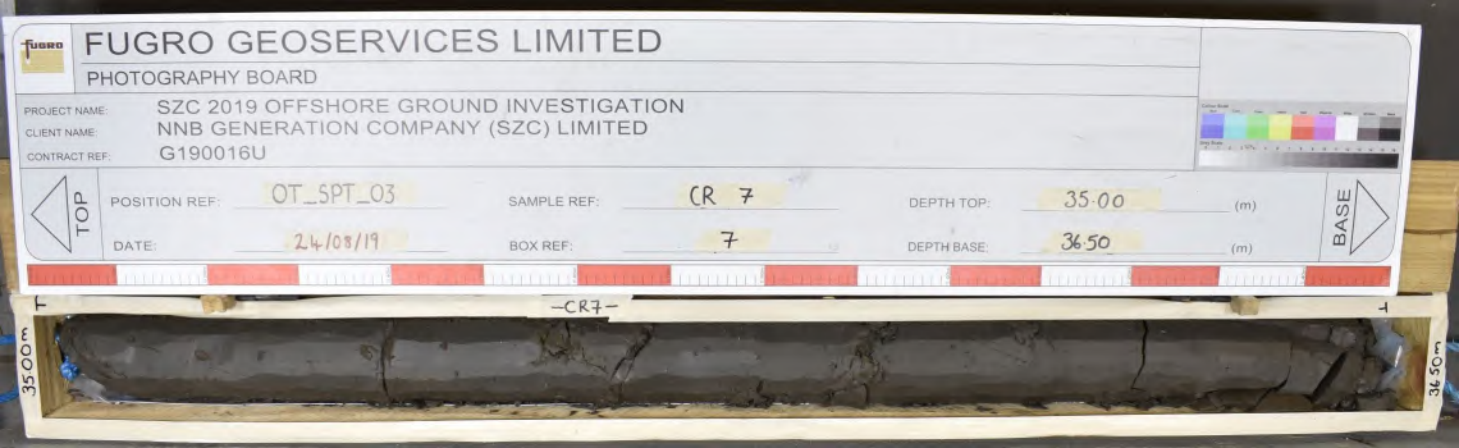
PHOTOGRAPHY BOARD

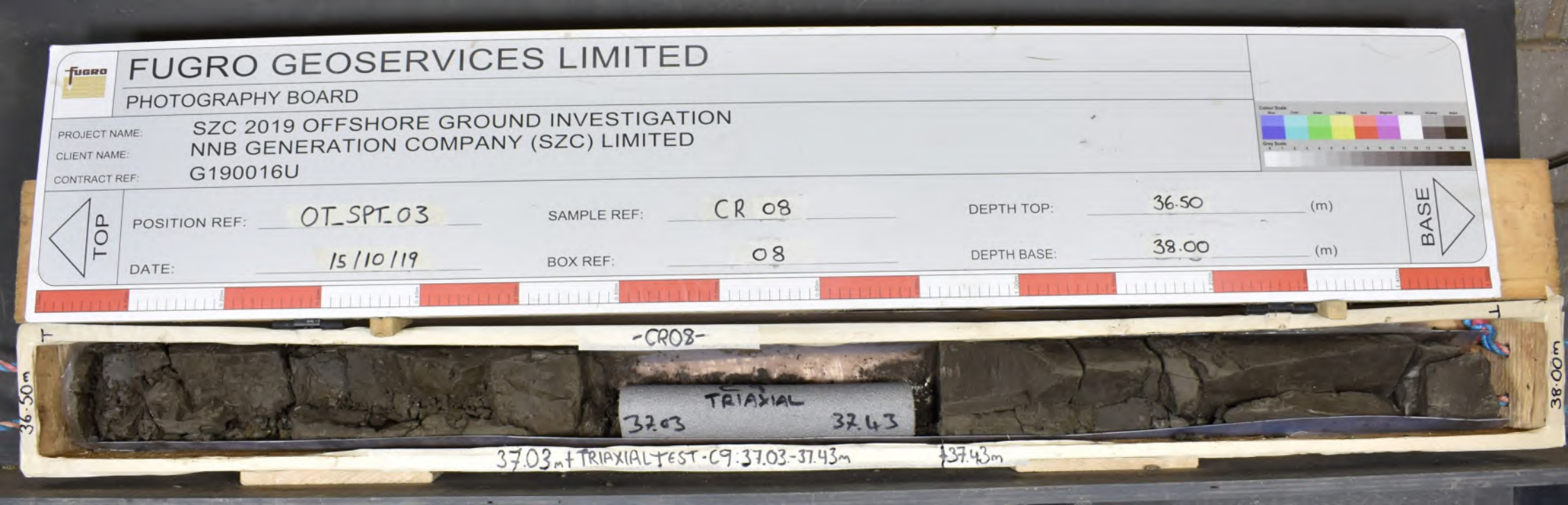
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 7
DEPTH TOP: 35.00 (m)
DATE: 24/08/19
BOX REF: 7
DEPTH BASE: 36.50 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
DATE: 15/10/19
SAMPLE REF: CR 08
BOX REF: 08
DEPTH TOP: 36.50 (m)
DEPTH BASE: 38.00 (m)
BASE
-CR08-
TRIAXIAL
37.03
37.43
36.50m
38.00m
37.03m TRIAXIAL TEST - C9: 37.03-37.43m
37.43m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 8
DEPTH TOP: 36.50 (m)
DATE: 24/08/19
BOX REF: 8
DEPTH BASE: 38.00 (m)
BASE
-CR.8-
36.50m
38.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

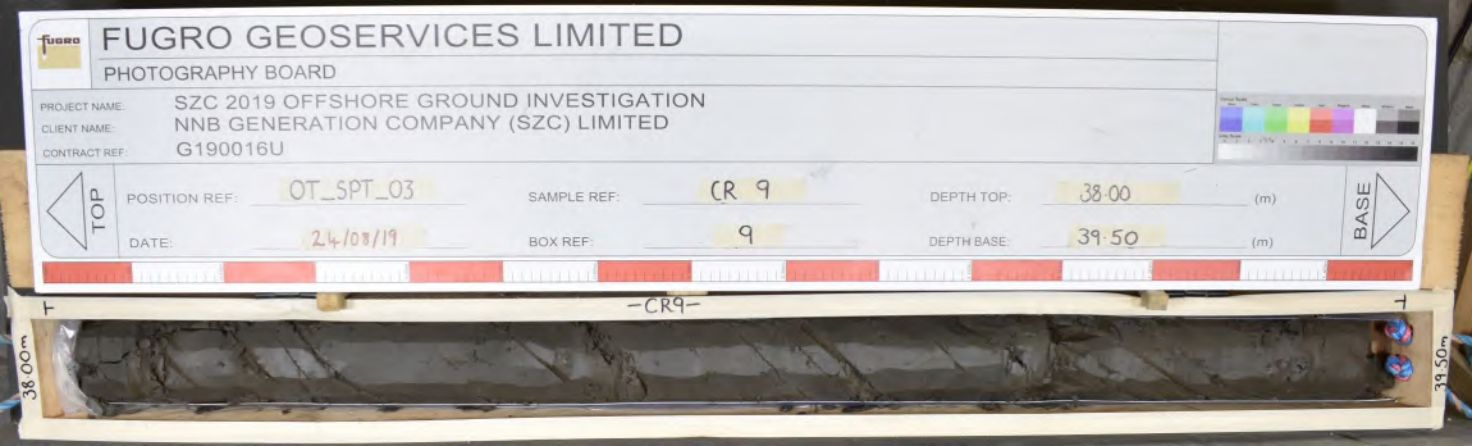
TOP

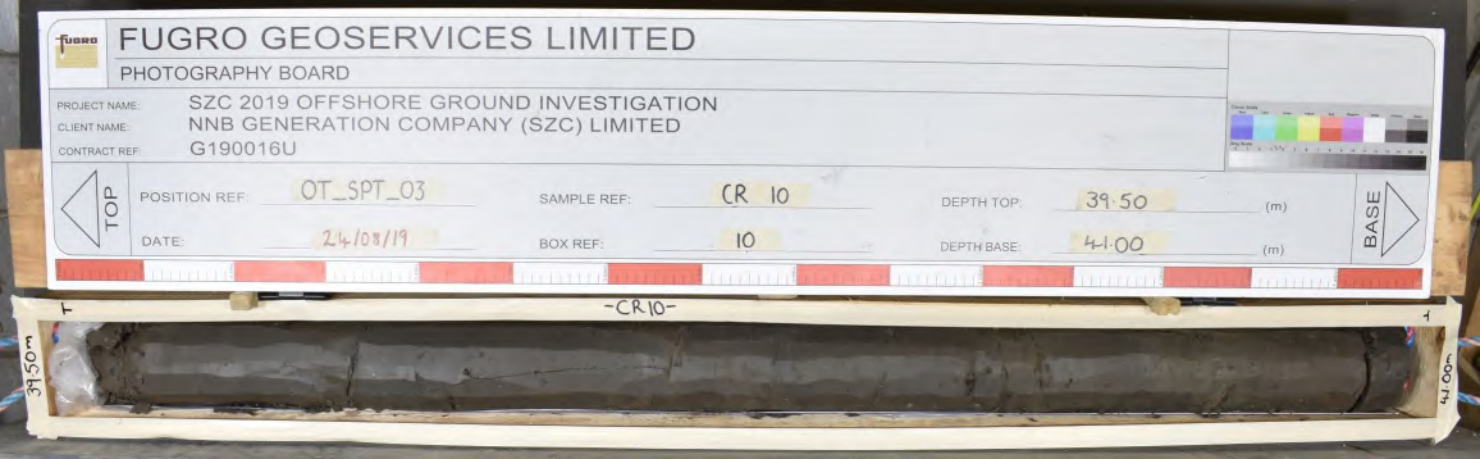
POSITION REF: OT_SPT_03
SAMPLE REF: CR 09
DEPTH TOP: 38.00 (m)

DATE: 15/10/19
BOX REF: 09
DEPTH BASE: 39.50 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 9
DEPTH TOP: 38.00 (m)
DATE: 24/08/19
BOX REF: 9
DEPTH BASE: 39.50 (m)
BASE
-CR9-
38.00m
39.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 10
DEPTH TOP: 39.50 (m)
DATE: 24/08/19
BOX REF: 10
DEPTH BASE: 41.00 (m)
BASE
-CR10-
39.50m
41.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

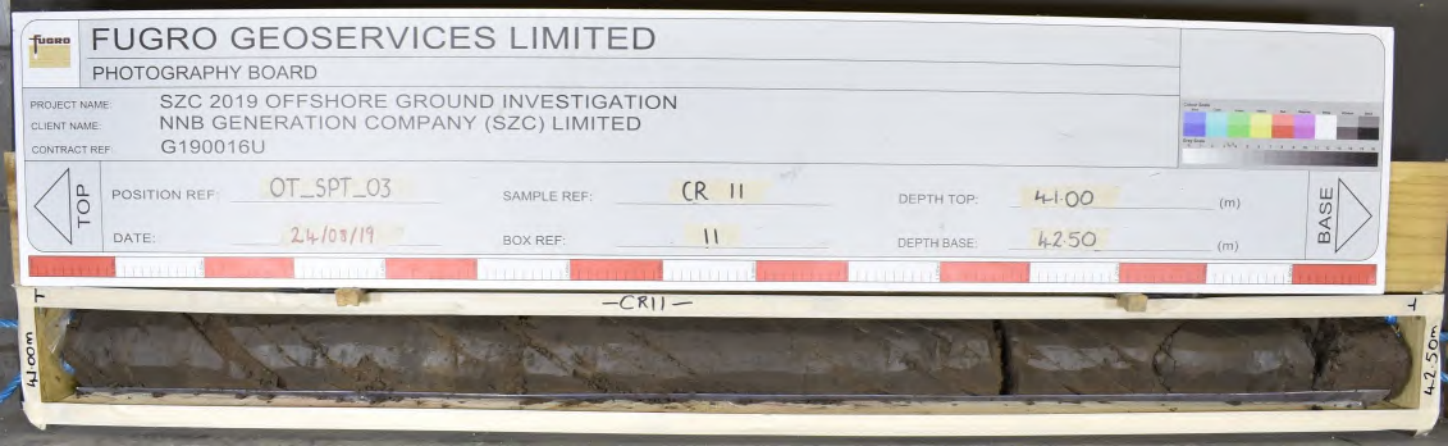
POSITION REF: OT_SPT_03
SAMPLE REF: CR 10
DEPTH TOP: 39.50 (m)
DATE: 15/10/19
BOX REF: 10
DEPTH BASE: 41.00 (m)

BASE

-CR10-

39.50m

41.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 11
DEPTH TOP: 41.00 (m)
DATE: 24/03/19
BOX REF: 11
DEPTH BASE: 42.50 (m)
BASE
CR11
41.00m
42.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 11
DEPTH TOP: 41.00 (m)

DATE: 15/10/19
BOX REF: 11
DEPTH BASE: 42.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 12
DEPTH TOP: 42.50 (m)
DATE: 24/08/19
BOX REF: 12
DEPTH BASE: 44.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 12
DEPTH TOP: 42.50 (m)

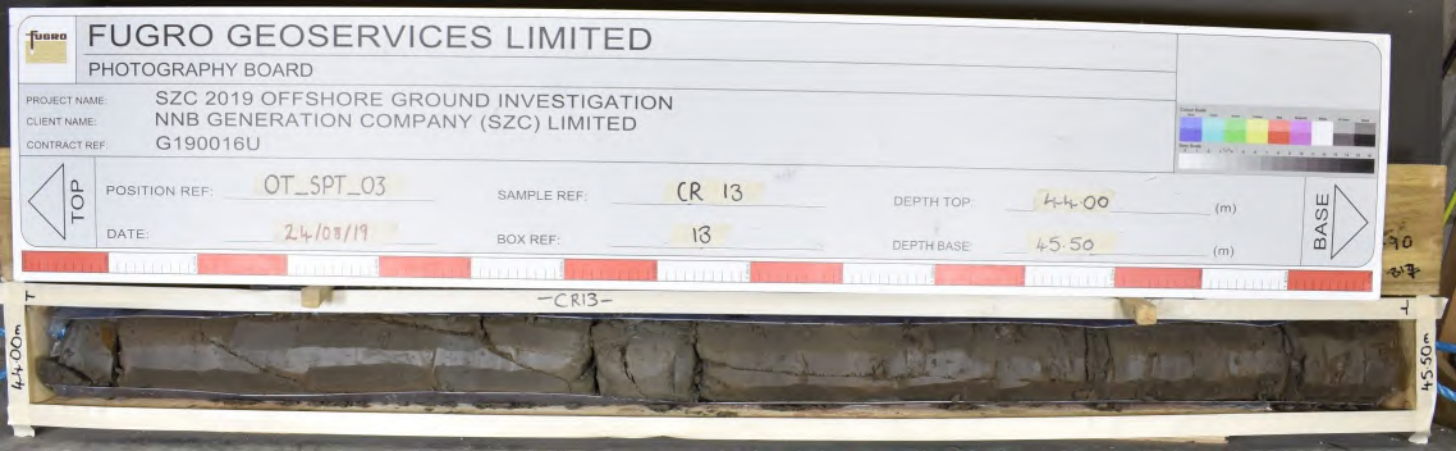
DATE: 15/10/19
BOX REF: 12
DEPTH BASE: 44.00 (m)

BASE

CR12

42.50m

44.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 13
DEPTH TOP: 44.00 (m)
DATE: 24/08/19
BOX REF: 13
DEPTH BASE: 45.50 (m)
BASE
-CR13-
44.00m
45.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 13
DEPTH TOP: 44.00 (m)

DATE: 15/10/19
BOX REF: 13
DEPTH BASE: 45.50 (m)

BASE

-CR13-

44.00m

45.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 14
DEPTH TOP: 45.50 (m)

DATE: 24/08/19
BOX REF: 14
DEPTH BASE: 47.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 14
DEPTH TOP: 45.50 (m)

DATE: 15/10/19
BOX REF: 14
DEPTH BASE: 47.00 (m)

BASE

-CR14-

45.50m

47.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 15
DEPTH TOP: 47.00 (m)

DATE: 24/08/19
BOX REF: 15
DEPTH BASE: 48.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 15
DEPTH TOP: 47.00 (m)

DATE: 15/10/19
BOX REF: 15
DEPTH BASE: 48.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03

SAMPLE REF: CR16

DEPTH TOP: 48.50 (m)

DATE: 24/08/19

BOX REF: 16

DEPTH BASE: 50.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 16
DEPTH TOP: 48.50 (m)
DATE: 15/10/19
BOX REF: 16
DEPTH BASE: 50.00 (m)

BASE

-CR16-

48.50m

50.00m

DB 49.95


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 17
DEPTH TOP: 50·00 (m)
DATE: 24/08/19
BOX REF: 17
DEPTH BASE: 51·50 (m)
BASE
CR17
50.00m
51.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 17
DEPTH TOP: 50.00 (m)

DATE: 15/10/19
BOX REF: 17
DEPTH BASE: 51.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

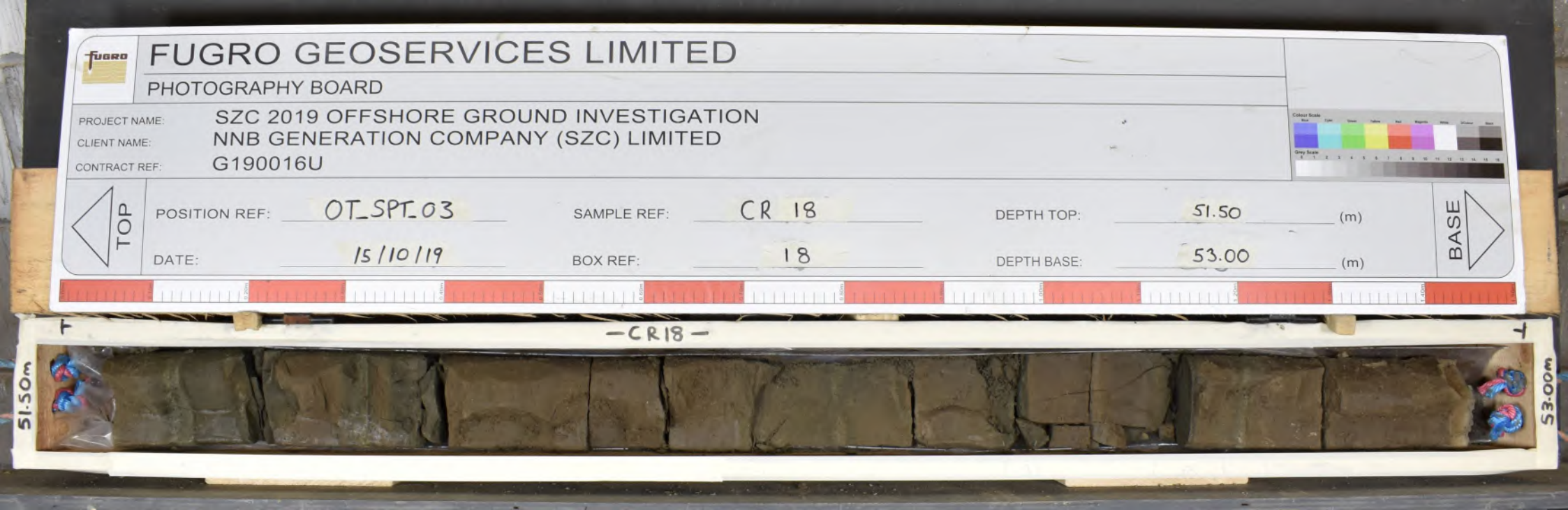
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
DATE: 24/08/19
SAMPLE REF: CR 18
BOX REF: 18
DEPTH TOP: 51.50 (m)
DEPTH BASE: 53.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 18
DEPTH TOP: 51.50 (m)
DATE: 15/10/19
BOX REF: 18
DEPTH BASE: 53.00 (m)
BASE
T
-CR18-
T
51.50m
53.00m

FUGRO GEOSERVICES LIMITED

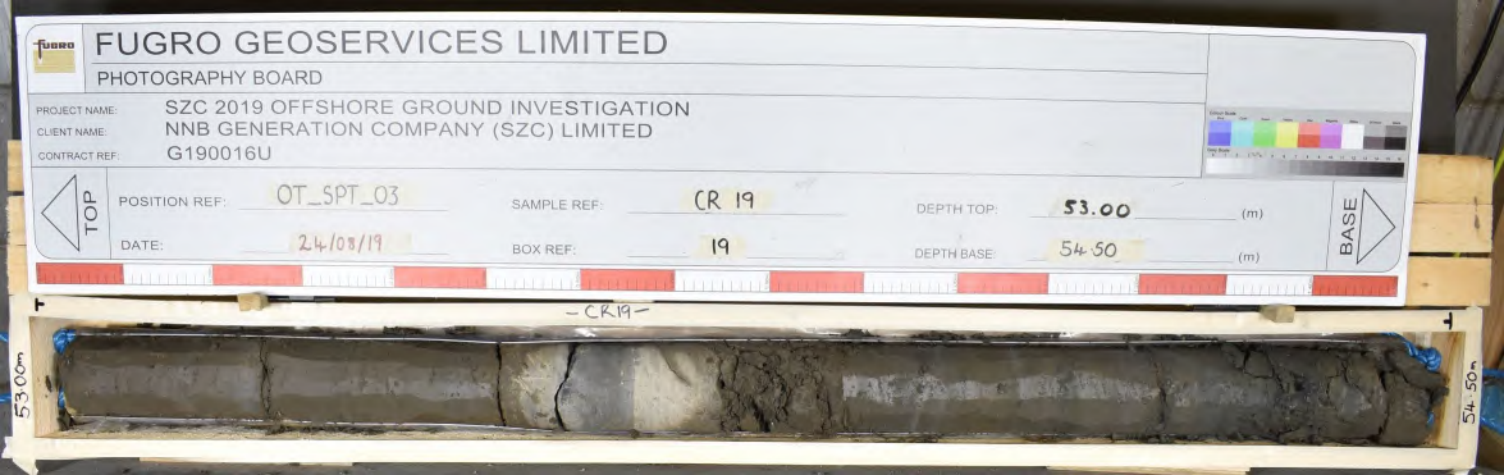
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 19
DEPTH TOP: 53.00 (m)
DATE: 24/08/19
BOX REF: 19
DEPTH BASE: 54.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 19
DEPTH TOP: 53.00 (m)

DATE: 15/10/19
BOX REF: 19
DEPTH BASE: 54.50 (m)

BASE

-CR19-

53.00m

53.85 C10 TRIAXIAL 54.25

54.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 20
DEPTH TOP: 54.50 (m)

DATE: 24/09/19
BOX REF: 20
DEPTH BASE: 56.00 (m)

BASE

—CR20—

54.50m

56.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 20
DEPTH TOP: 54.50 (m)

DATE: 15/10/19
BOX REF: 20
DEPTH BASE: 56.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 21
DEPTH TOP: 56.00 (m)
DATE: 24/08/19
BOX REF: 21
DEPTH BASE: 57.50 (m)

BASE

-CR21-

56.00m

57.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 21
DEPTH TOP: 56.00 (m)
DATE: 15/10/19
BOX REF: 21
DEPTH BASE: 57.50 (m)
BASE
-CR 21-
56.00m
57.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03 SAMPLE REF: CR 22 DEPTH TOP: 57.50 (m)

DATE: 24/08/19 BOX REF: 22 DEPTH BASE: 59.00 (m)

BASE

—CR22—

57.50

59.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 22
DEPTH TOP: 57.50 (m)

DATE: 15/10/19
BOX REF: 22
DEPTH BASE: 59.00 (m)

BASE

—CR22—

57.50

59.00


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 23
DEPTH TOP: 59.00 (m)
DATE: 24/08/19
BOX REF: 23
DEPTH BASE: 60.50 (m)
BASE
CR23
59.00m
60.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 23
DEPTH TOP: 59.00 (m)

DATE: 15/10/19
BOX REF: 23
DEPTH BASE: 60.50 (m)

BASE

-CR23-

59.00m

60.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 24
DEPTH TOP: 60.50 (m)
DATE: 24/08/19
BOX REF: 24
DEPTH BASE: 62.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 24
DEPTH TOP: 60.50 (m)
DATE: 15/10/19
BOX REF: 24
DEPTH BASE: 62.00 (m)

BASE

-CR24-

60.50m

62.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

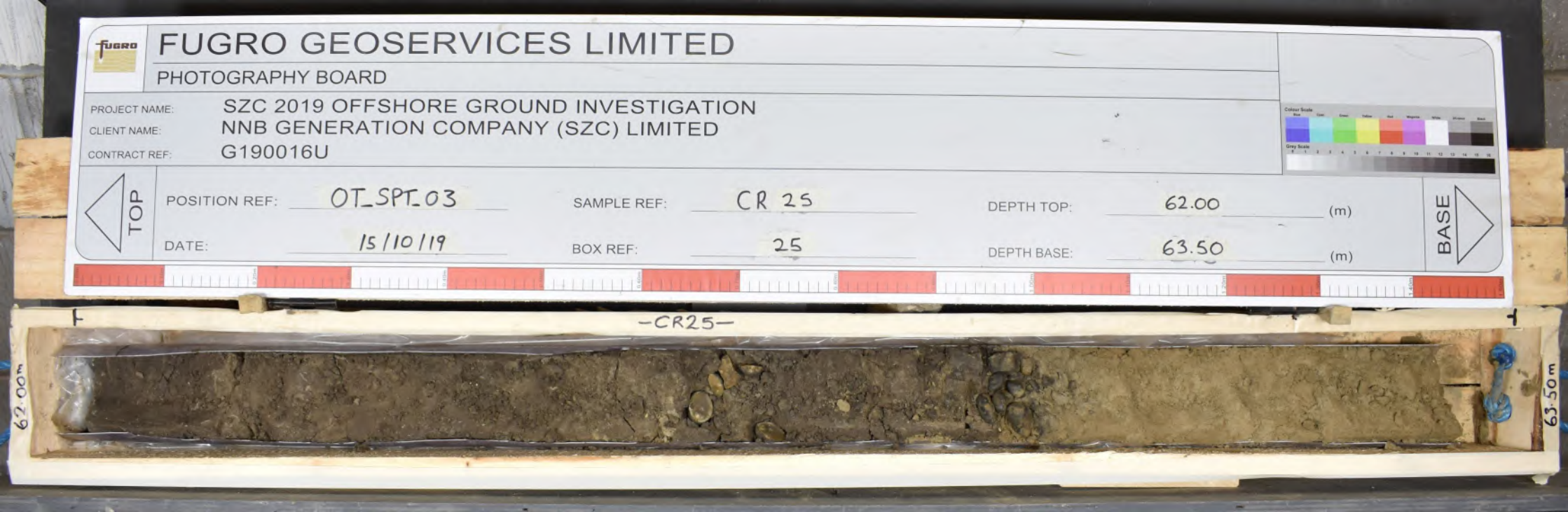
POSITION REF: OT_SPT_03
SAMPLE REF: CR 25
DEPTH TOP: 62.00 (m)
DATE: 24/08/19
BOX REF: 2S
DEPTH BASE: 63.50 (m)

BASE

-CR25-

62.00m

63.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 25
DEPTH TOP: 62.00 (m)
DATE: 15/10/19
BOX REF: 25
DEPTH BASE: 63.50 (m)
BASE
-CR25-
62.00m
63.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

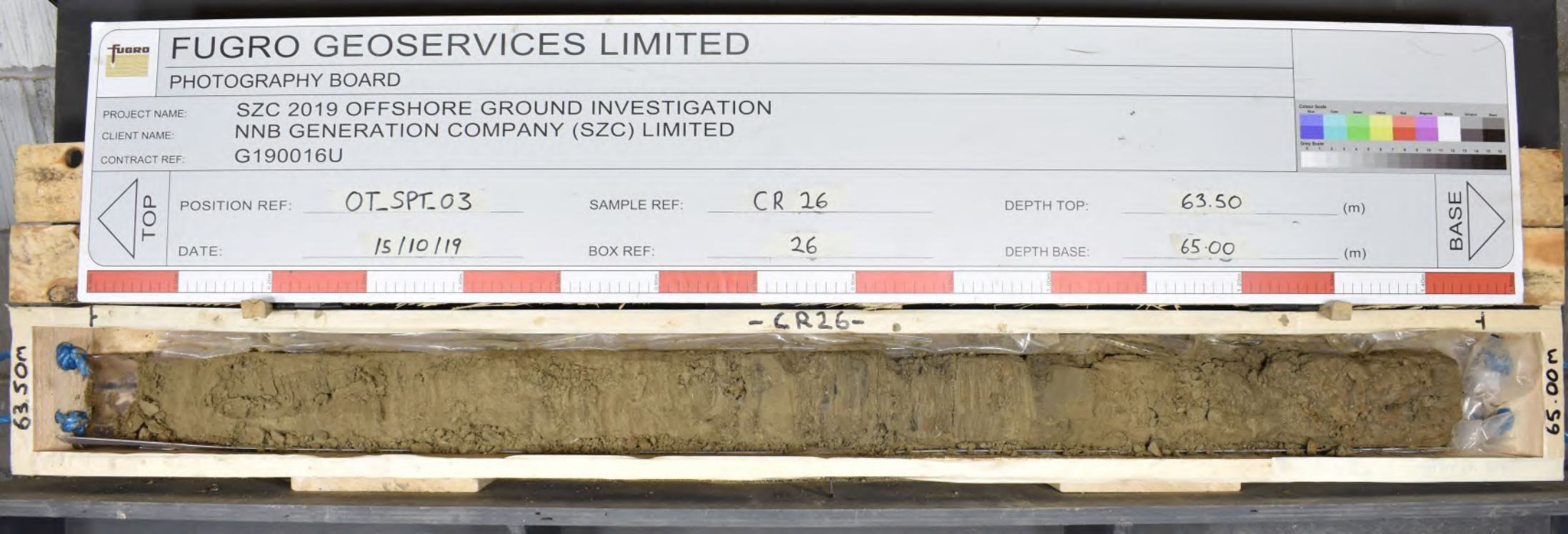
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 26
DEPTH TOP: 63.50 (m)
DATE: 24/08/19
BOX REF: 26
DEPTH BASE: 65.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 26
DEPTH TOP: 63.50 (m)
DATE: 15/10/19
BOX REF: 26
DEPTH BASE: 65.00 (m)
BASE
-CR26-
63.50m
65.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

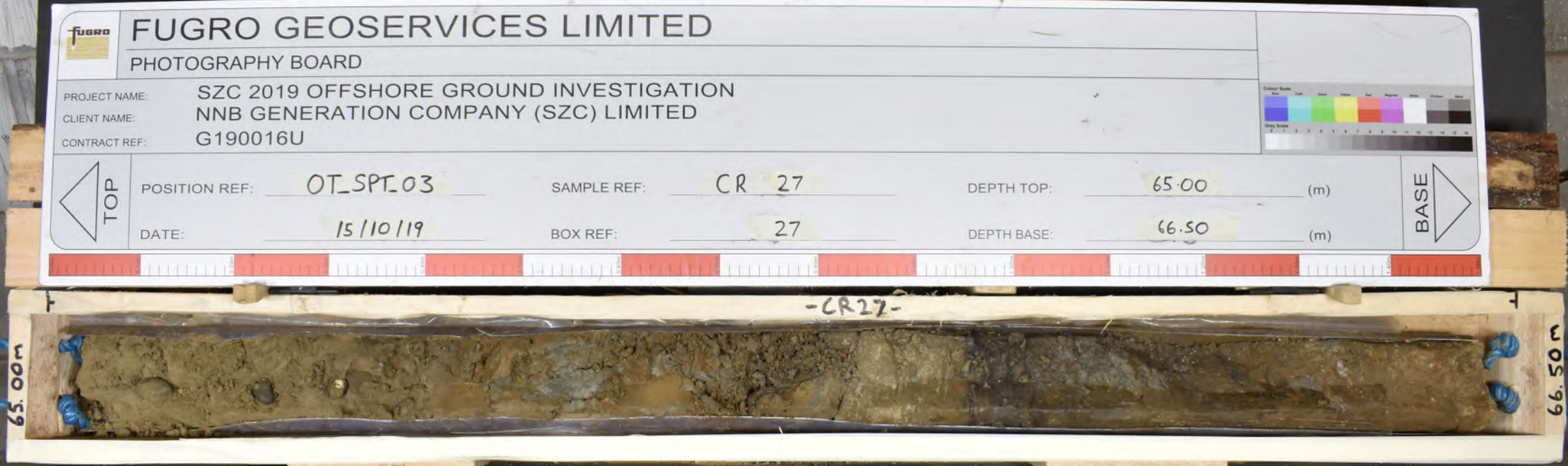
POSITION REF: OT_SPT_03
DATE: 24/08/19
SAMPLE REF: CR 27
BOX REF: 27
DEPTH TOP: 65.00 (m)
DEPTH BASE: 66.50 (m)

BASE

-CR27-

65.00m

66.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 27
DEPTH TOP: 65.00 (m)
DATE: 15/10/19
BOX REF: 27
DEPTH BASE: 66.50 (m)
BASE
-CR27-
65.00m
66.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 28
DEPTH TOP: 66.50 (m)
DATE: 24/08/19
BOX REF: 28
DEPTH BASE: 68.00 (m)

BASE

AZCL 66.84mt -CR28-

66.50m

68.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 28
DEPTH TOP: 66.50 (m)

DATE: 14/10/19
BOX REF: 28
DEPTH BASE: 68.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 29
DEPTH TOP: 68.00 (m)

DATE: 24/08/19
BOX REF: 29
DEPTH BASE: 69.50 (m)

BASE

FAZCL 68.15m

-CR29-

68.00m

69.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 29
DEPTH TOP: 68.00 (m)

DATE: 14/10/19
BOX REF: 29
DEPTH BASE: 69.50 (m)

BASE



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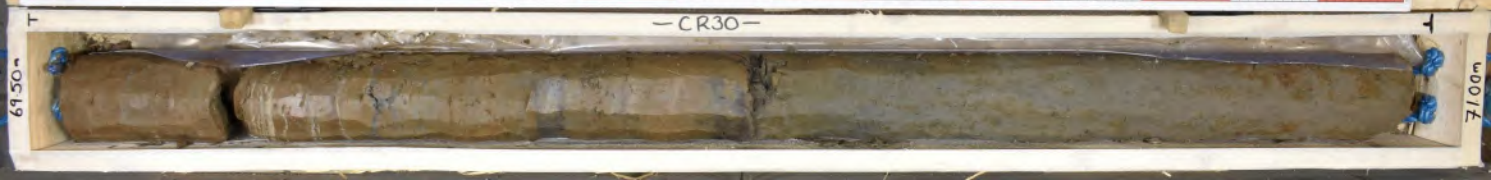
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 30
DEPTH TOP: 69.50 (m)
DATE: 24/08/19
BOX REF: 30
DEPTH BASE: 71.00 (m)

BASE



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PHOTOGRAPHY BOARD

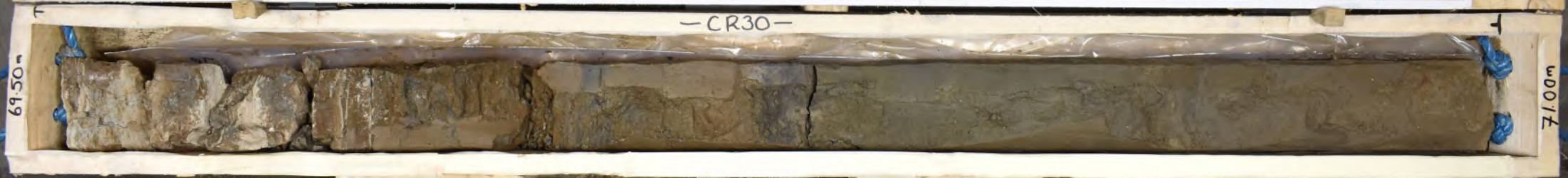
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 30
DEPTH TOP: 69.50 (m)

DATE: 14/10/19
BOX REF: 30
DEPTH BASE: 71.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03 SAMPLE REF: CR 31 DEPTH TOP: 71.00 (m)

DATE: 24/08/19 BOX REF: 31 DEPTH BASE: 72.50 (m)

BASE



NOTE: AZCL: 72.25m - 72.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03

DATE: 14/10/19

SAMPLE REF: CR 31

BOX REF: 31

DEPTH TOP: 71.00 (m)

DEPTH BASE: 72.50 (m)

BASE



NOTE: AZCL: 72.25m - 72.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 32
DEPTH TOP: 72.50 (m)

DATE: 24/08/19
BOX REF: 32
DEPTH BASE: 74.00 (m)

BASE



NOTE: AZCL: 73.40m - 74.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
DATE: 14/10/19
SAMPLE REF: CR 32
BOX REF: 32
DEPTH TOP: 72.50 (m)
DEPTH BASE: 74.00 (m)

BASE



NOTE: AZCL: 73.40m - 74.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 33
DEPTH TOP: 74.00 (m)
DATE: 24/08/19
BOX REF: 33
DEPTH BASE: 75.50 (m)

BASE

- CR33 -

74.00 m

75.50 m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 34
DEPTH TOP: 75.50 (m)
DATE: 24/08/19
BOX REF: 34
DEPTH BASE: 77.00 (m)

BASE

-CR34-

75.50m

77.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 35
DEPTH TOP: 77.00 (m)

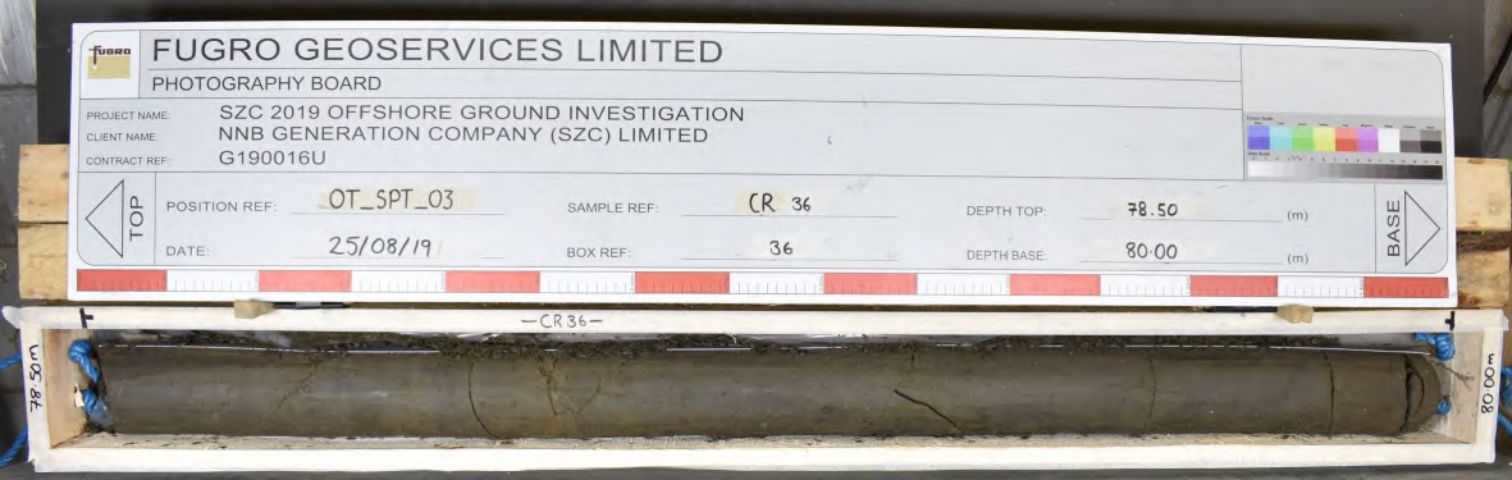
DATE: 24/08/19
BOX REF: 35
DEPTH BASE: 78.50 (m)

BASE

-CR35-

77.00m

78.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 36
DEPTH TOP: 78.50 (m)
DATE: 25/08/19
BOX REF: 36
DEPTH BASE: 80.00 (m)
BASE
CR36
78.50
80.00

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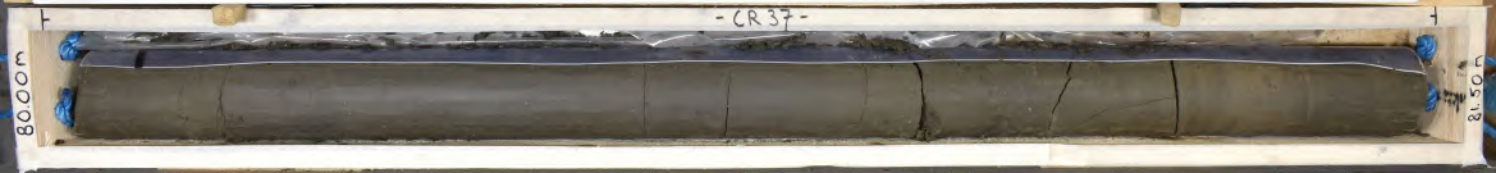
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 37
DEPTH TOP: 80.00 (m)
DATE: 25/08/19
BOX REF: 37
DEPTH BASE: 81.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 38
DEPTH TOP: 81.50 (m)

DATE: 25/08/19
BOX REF: 38
DEPTH BASE: 83.00 (m)

BASE

-CR38-

81.50m

83.00m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 39
DEPTH TOP: 83.00 (m)
DATE: 25/08/19
BOX REF: 39
DEPTH BASE: 84.50 (m)
BASE
- CR39 -
+8420m AZCL
83.00m
84.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 40
DEPTH TOP: 84.50 (m)
DATE: 25/08/19
BOX REF: 40
DEPTH BASE: 86.00 (m)
BASE
-CR40-
84.50m
86.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 41
DEPTH TOP: 86.00 (m)

DATE: 25/08/19
BOX REF: 41
DEPTH BASE: 87.50 (m)

BASE

—CR41—

86.00m

87.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

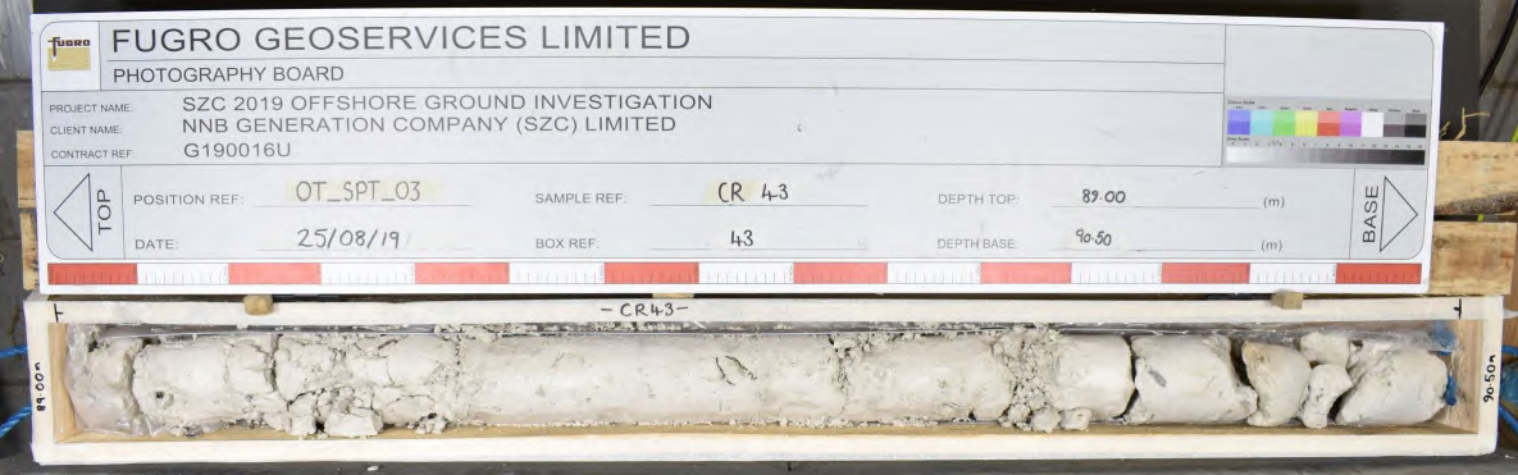
TOP

POSITION REF: OT_SPT_03 SAMPLE REF: CR 42 DEPTH TOP: 87.50 (m)

DATE: 25/08/19 BOX REF: 42 DEPTH BASE: 89.00 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 43
DEPTH TOP: 89.00 (m)
DATE: 25/08/19
BOX REF: 43
DEPTH BASE: 90.50 (m)
BASE
- CR43 -
89.00m
90.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03

SAMPLE REF: CR 44

DEPTH TOP: 90.50 (m)

DATE: 25/08/19

BOX REF: 44

DEPTH BASE: 92.00 (m)

BASE

-CR44-

90.50 m

92.00 m

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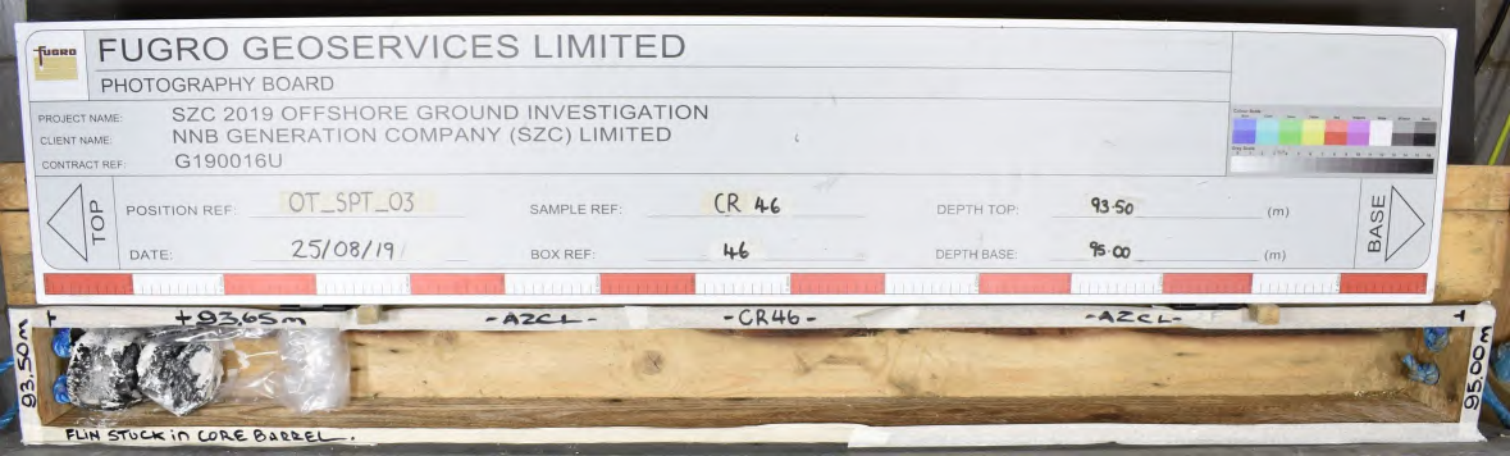
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
DATE: 25/08/19
SAMPLE REF: CR 45
BOX REF: 45
DEPTH TOP: 92.00 (m)
DEPTH BASE: 93.50 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 46
DEPTH TOP: 93.50 (m)
DATE: 25/08/19
BOX REF: 46
DEPTH BASE: 95.00 (m)
BASE
+9365m
-AZCL-
-CR46-
-AZCL-
93.50m
95.00m
FLIN STUCK IN CORE BARREL.

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT-SPT-03

SAMPLE REF: CR 47+48

DEPTH TOP: 95.00 (m)

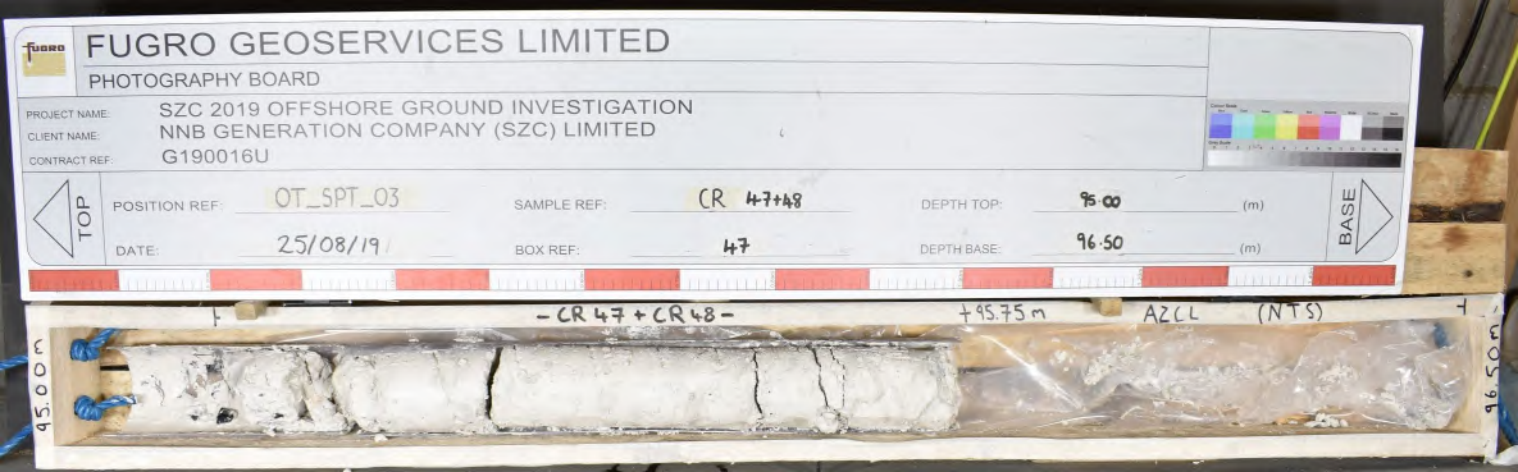
DATE: 25/8/19

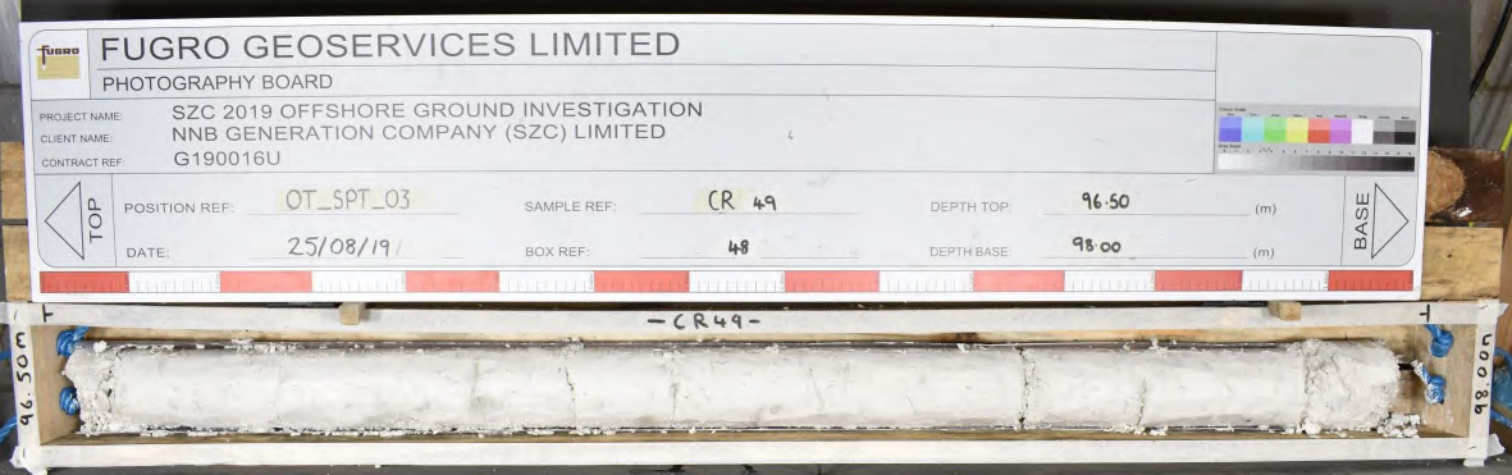
BOX REF: 47

DEPTH BASE: 96.50 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
DATE: 25/08/19
SAMPLE REF: CR 47+48
BOX REF: 47
DEPTH TOP: 95.00 (m)
DEPTH BASE: 96.50 (m)
BASE
- CR 47 + CR 48 -
+95.75m
AZCL
(NTS)
95.00m
96.50m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 49
DEPTH TOP: 96.50 (m)
DATE: 25/08/19
BOX REF: 48
DEPTH BASE: 98.00 (m)
BASE
-CR49-
96.50m
98.00m

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PHOTOGRAPHY BOARD

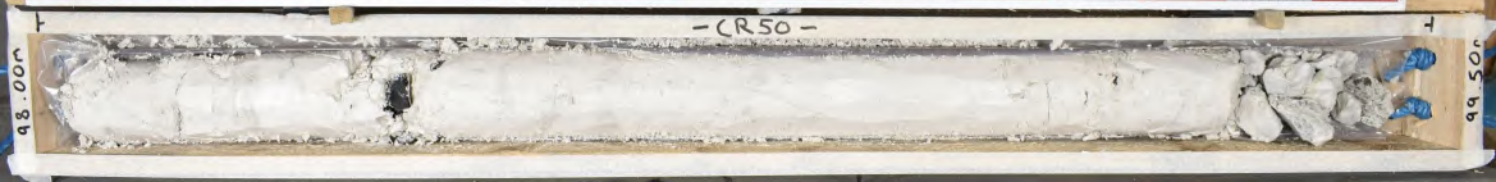
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 50
DEPTH TOP: 98.00 (m)

DATE: 25/08/19
BOX REF: 49
DEPTH BASE: 99.50 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SPT_03
SAMPLE REF: CR 51
DEPTH TOP: 99.50 (m)
DATE: 25/08/19
BOX REF: 50
DEPTH BASE: 101.00 (m)
BASE
CR51
99.50 m
101.00 m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 52
DEPTH TOP: 101.00 (m)
DATE: 25/08/19
BOX REF: 51
DEPTH BASE: 102.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03 SAMPLE REF: CR 53 DEPTH TOP: 102.50 (m)

DATE: 25/08/19 BOX REF: 52 DEPTH BASE: 104.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 54
DEPTH TOP: 104·00 (m)
DATE: 25/08/19
BOX REF: 53
DEPTH BASE: 105·50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
DATE: 25/08/19
SAMPLE REF: CR 55
BOX REF: 54
DEPTH TOP: 105.50 (m)
DEPTH BASE: 107.00 (m)

BASE

-CR55-

105.50m

107.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 56
DEPTH TOP: 107.00 (m)
DATE: 25/08/19
BOX REF: 55
DEPTH BASE: 108.50 (m)

BASE

- CR56 -

107.00

108.50

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SPT_03
SAMPLE REF: CR 57
DEPTH TOP: 108·50 (m)
DATE: 25/08/19
BOX REF: 56
DEPTH BASE: 110·00 (m)

BASE



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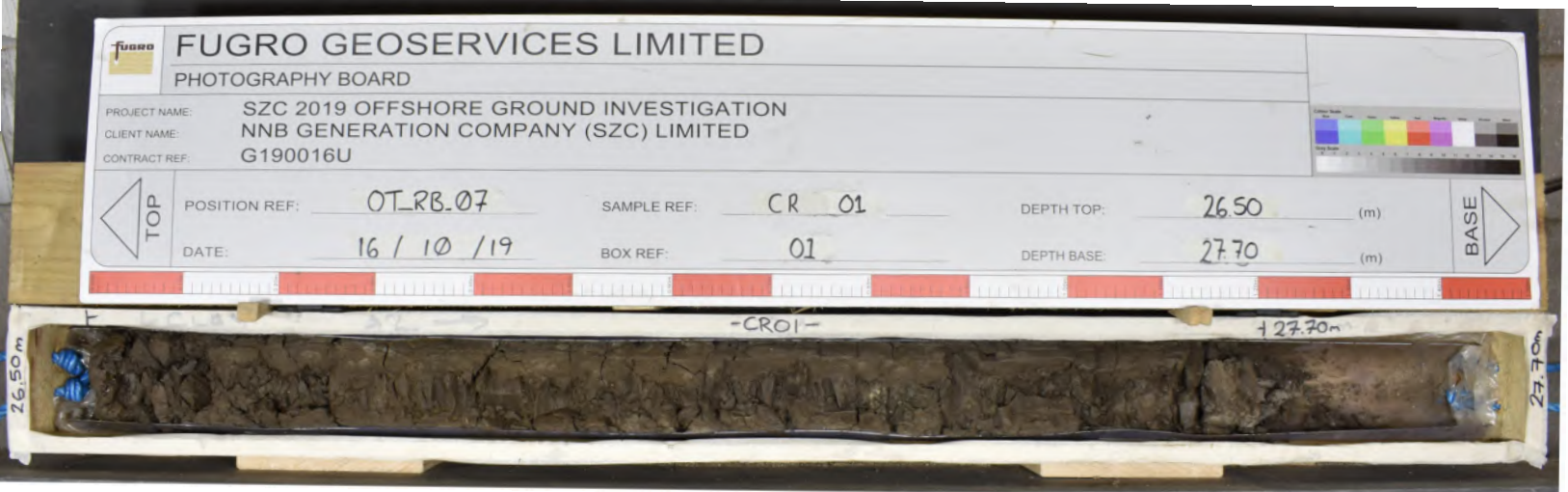
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 1
DEPTH TOP: 26.50 (m)
DATE: 14/07/19
BOX REF: Box 1
DEPTH BASE: 27.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 01
DEPTH TOP: 26.50 (m)
DATE: 16 / 10 /19
BOX REF: 01
DEPTH BASE: 27.70 (m)
BASE
-CR01-
+27.70m
26.50m
27.70m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 2
DEPTH TOP: 27.70 (m)
DATE: 14/07/19
BOX REF: Box 2
DEPTH BASE: 29.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 02
DEPTH TOP: 27.70 (m)
DATE: 16 / 10 /19
BOX REF: 02
DEPTH BASE: 29.20 (m)

BASE



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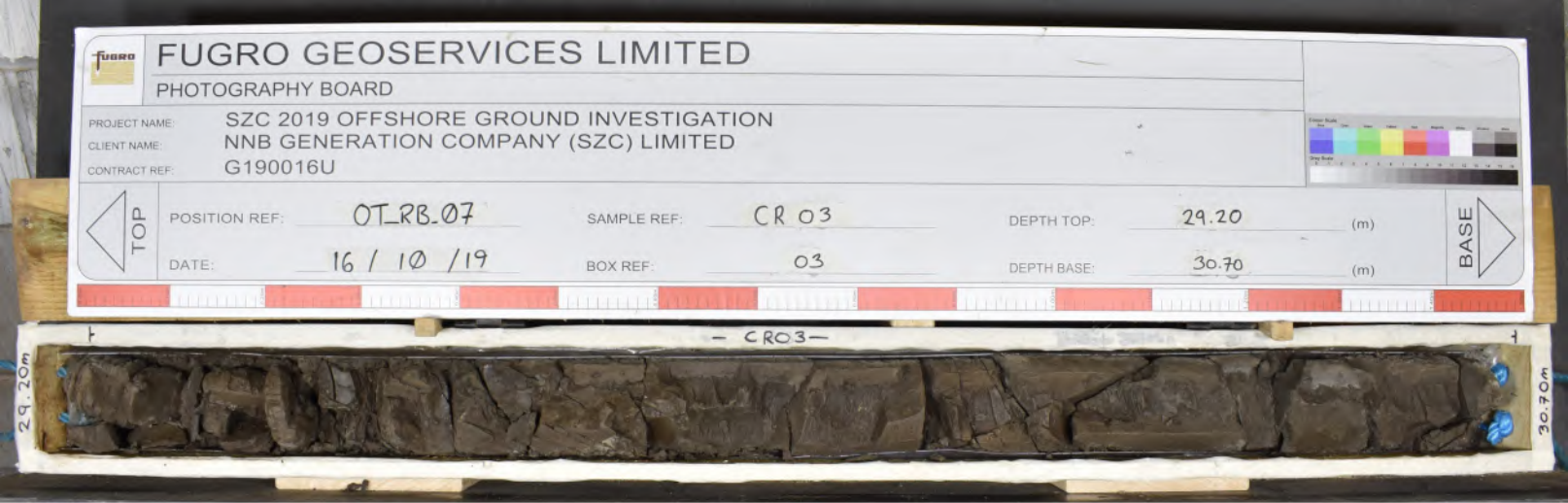
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 3
DEPTH TOP: 29.20 (m)
DATE: 14/07/19
BOX REF: Box 3
DEPTH BASE: 30.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 03
DEPTH TOP: 29.20 (m)
DATE: 16 / 10 / 19
BOX REF: 03
DEPTH BASE: 30.70 (m)
BASE
- CR03 -
29.20m
30.70m

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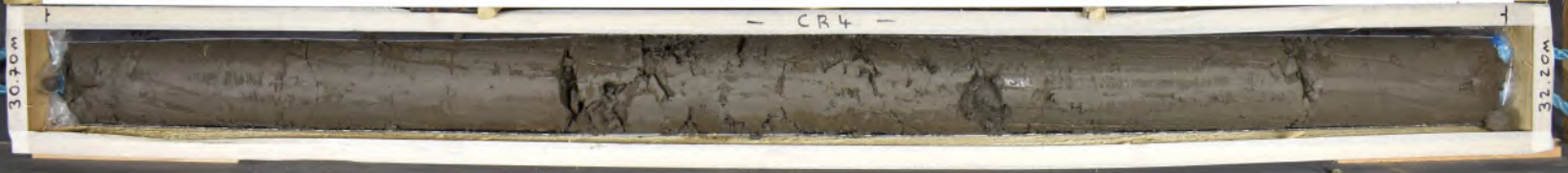
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 4
DEPTH TOP: 30.70 (m)
DATE: 14/07/19
BOX REF: Box 4
DEPTH BASE: 32.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 04
DEPTH TOP: 30.70 (m)
DATE: 16 / 10 /19
BOX REF: 04
DEPTH BASE: 32.20 (m)
BASE
CR04
30.70m
32.20m

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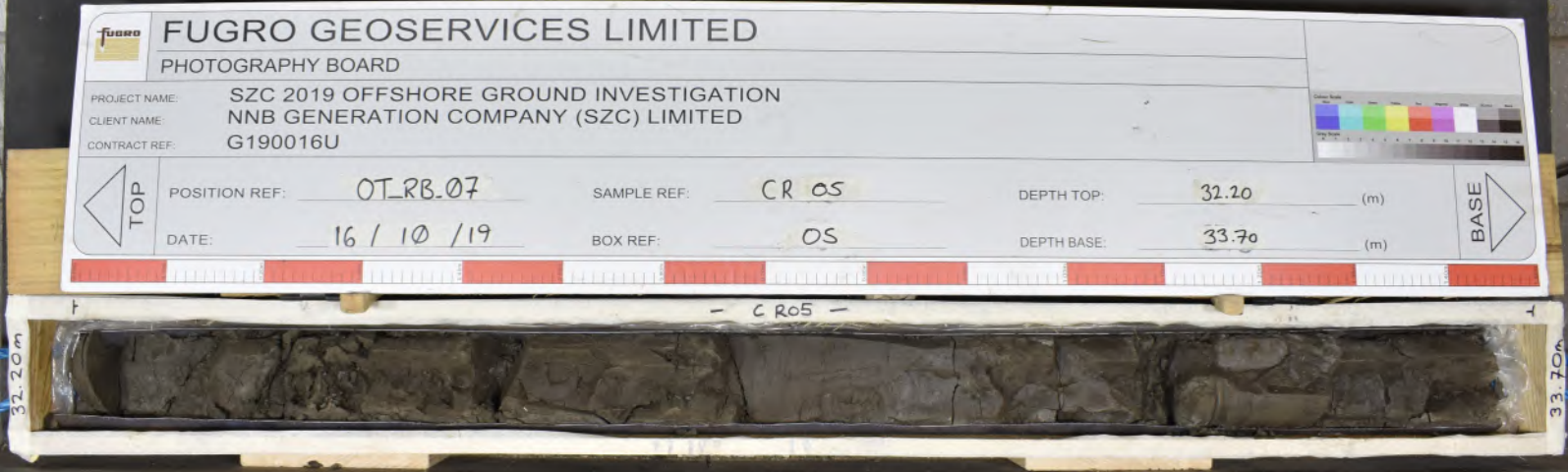
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 5
DEPTH TOP: 32.20 (m)
DATE: 14/07/19
BOX REF: Box 5
DEPTH BASE: 33.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 05
DEPTH TOP: 32.20 (m)
DATE: 16 / 10 / 19
BOX REF: 05
DEPTH BASE: 33.70 (m)
BASE
CR05
32.20m
33.70m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 6
DEPTH TOP: 33.70 (m)

DATE: 14/07/19
BOX REF: Box 6
DEPTH BASE: 35.20 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 06
DEPTH TOP: 33.70 (m)
DATE: 16 / 10 /19
BOX REF: 06
DEPTH BASE: 35.20 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 7
DEPTH TOP: 35.20 (m)

DATE: 14/07/19
BOX REF: Box 7
DEPTH BASE: 36.70 (m)

BASE



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PHOTOGRAPHY BOARD

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07 SAMPLE REF: CR 07 DEPTH TOP: 35.20 (m)

DATE: 16 / 10 /19 BOX REF: 07 DEPTH BASE: 36.70 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 8
DEPTH TOP: 36.70 (m)
DATE: 14/07/19
BOX REF: Box 8
DEPTH BASE: 38.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 08
DEPTH TOP: 36.70 (m)
DATE: 16 / 10 /19
BOX REF: 08
DEPTH BASE: 38.20 (m)
BASE
-CR08-
36.70m
38.20m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 14/07/19
SAMPLE REF: CR 9
BOX REF: BOX 9
DEPTH TOP: 38.20 (m)
DEPTH BASE: 39.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 09
DEPTH TOP: 38.20 (m)
DATE: 16 / 10 /19
BOX REF: 09
DEPTH BASE: 39.70 (m)

BASE



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PHOTOGRAPHY BOARD

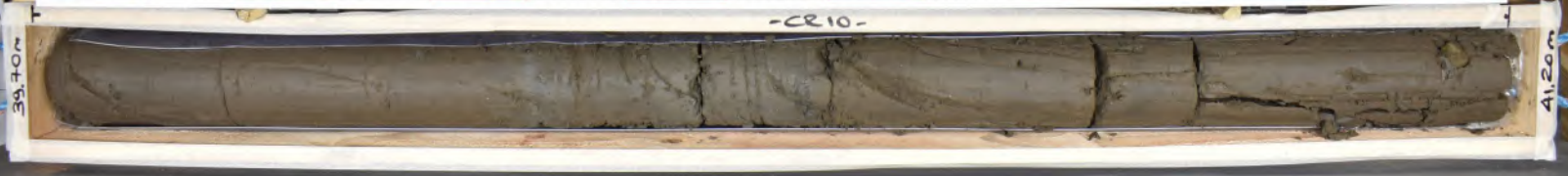
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 10
DEPTH TOP: 39.70 (m)

DATE: 14/07/19
BOX REF: Box 10
DEPTH BASE: 41.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 10
DEPTH TOP: 39.70 (m)
DATE: 16 / 10 / 19
BOX REF: 10
DEPTH BASE: 41.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 11
DEPTH TOP: 41.20 (m)

DATE: 14/07/19
BOX REF: Box 11
DEPTH BASE: 42.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 11
DEPTH TOP: 41.20 (m)
DATE: 16 / 10 /19
BOX REF: 11
DEPTH BASE: 42.70 (m)
BASE
-CR11-
41.20m
42.70m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 12
DEPTH TOP: 42.70 (m)
DATE: 14/07/19
BOX REF: Box 12
DEPTH BASE: 44.20 (m)

BASE

- CR12 -

42.70m

44.20m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 12
DEPTH TOP: 42.70 (m)
DATE: 16 / 10 / 19
BOX REF: 12
DEPTH BASE: 44.20 (m)
BASE
- CR 12 -
42.70m
44.20m

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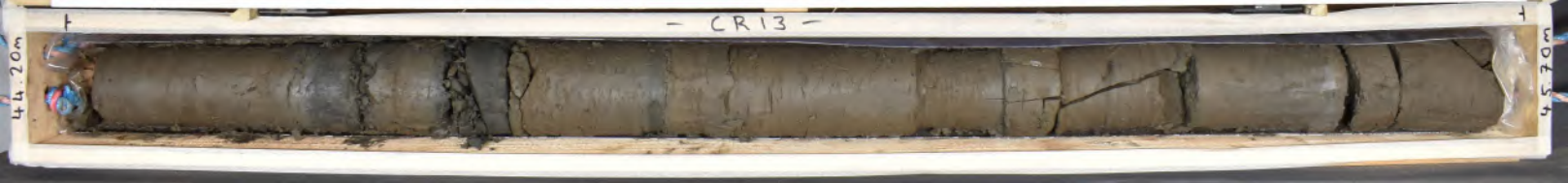
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 13
DEPTH TOP: 44.20 (m)
DATE: 14/07/19
BOX REF: Box 13
DEPTH BASE: 45.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 13
DEPTH TOP: 44.20 (m)
DATE: 16 / 10 /19
BOX REF: 13
DEPTH BASE: 45.70 (m)

BASE



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PHOTOGRAPHY BOARD

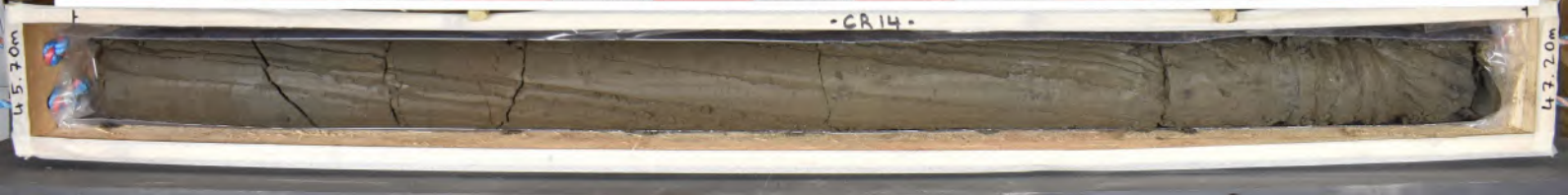
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

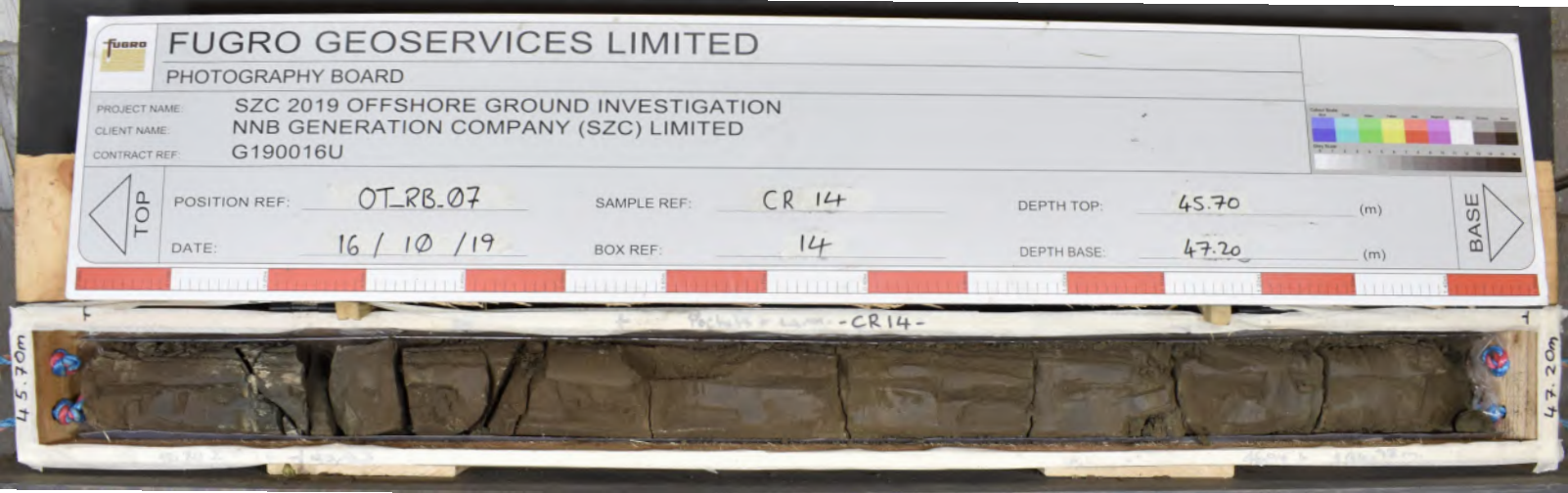
TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 14
DEPTH TOP: 45.70 (m)

DATE: 14/07/19
BOX REF: Box 14
DEPTH BASE: 47.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 14
DEPTH TOP: 45.70 (m)
DATE: 16 / 10 /19
BOX REF: 14
DEPTH BASE: 47.20 (m)
BASE
-CR14-
45.70m
47.20m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 15
DEPTH TOP: 47.20 (m)
DATE: 14/07/19
BOX REF: Box 15
DEPTH BASE: 48.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 15
DEPTH TOP: 47.20 (m)
DATE: 16 / 10 / 19
BOX REF: 15
DEPTH BASE: 48.70 (m)
BASE
- CR15 -
47.20m
48.70m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 14/07/19
SAMPLE REF: CR 16
BOX REF: BOX 16
DEPTH TOP: 48.70 (m)
DEPTH BASE: 50.20 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 16
DEPTH TOP: 48.70 (m)
DATE: 16 / 10 / 19
BOX REF: 16
DEPTH BASE: 50.20 (m)

BASE

-CR16-

48.70m

50.20m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 17
DEPTH TOP: 50.20 (m)
DATE: 14/07/19
BOX REF: Box 17
DEPTH BASE: 51.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 17
DEPTH TOP: 50.20 (m)
DATE: 16 / 10 /19
BOX REF: 17
DEPTH BASE: 51.70 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 18
DEPTH TOP: 51.70 (m)
DATE: 14/07/19
BOX REF: Box 18
DEPTH BASE: 53.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 18
DEPTH TOP: 51.70 (m)
DATE: 16 / 10 / 19
BOX REF: 18
DEPTH BASE: 53.20 (m)
BASE
-CR18-
51.70m
53.20m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 19
DEPTH TOP: 53.20 (m)
DATE: 14/07/19
BOX REF: BOx 19
DEPTH BASE: 54.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 19
DEPTH TOP: 53.20 (m)
DATE: 16 / 10 / 19
BOX REF: 19
DEPTH BASE: 54.70 (m)
BASE
- CR19 -
53.20m
54.70m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 20
DEPTH TOP: 54.70 (m)
DATE: 14/07/19
BOX REF: Box 20
DEPTH BASE: 56.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 20
DEPTH TOP: 54.70 (m)
DATE: 16 / 10 / 19
BOX REF: 20
DEPTH BASE: 56.20 (m)
BASE
- CR20 -
54.70m
56.20m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

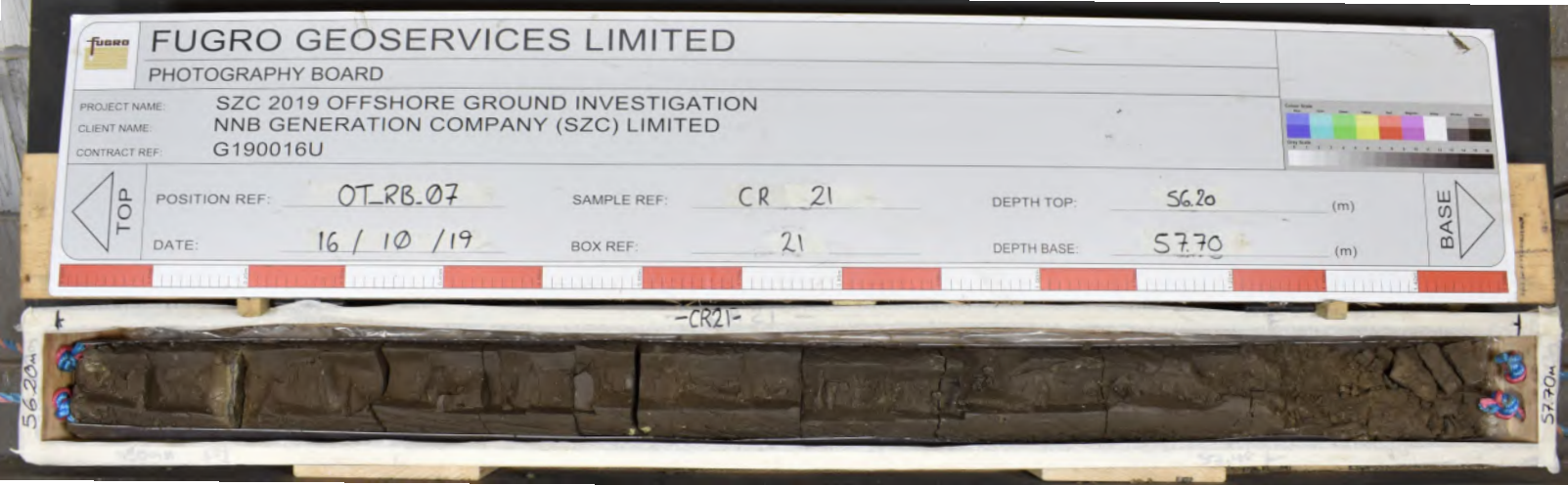
POSITION REF: OT_RB_07
SAMPLE REF: CR 21
DEPTH TOP: 56.20 (m)
DATE: 14/07/19
BOX REF: Box 21
DEPTH BASE: 57.70 (m)

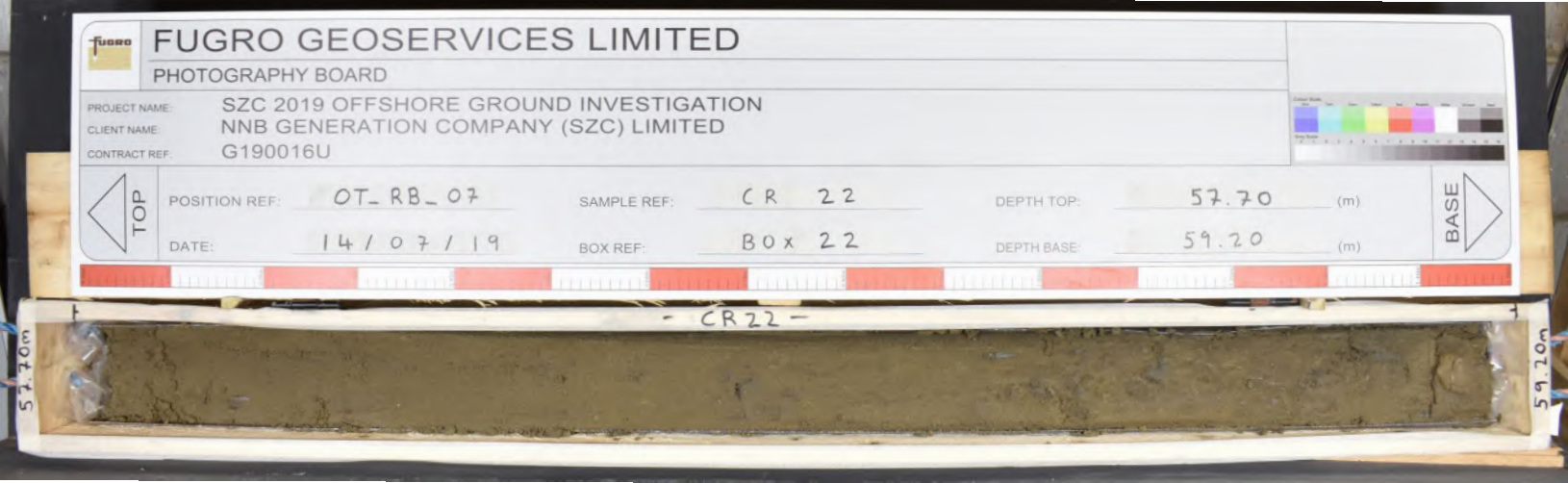
BASE

– CR21 –

56.20m

57.70m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 21
DEPTH TOP: 56.20 (m)
DATE: 16 / 10 / 19
BOX REF: 21
DEPTH BASE: 57.70 (m)
BASE
-CR21-
56.20m
57.70m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 22
DEPTH TOP: 57.70 (m)
DATE: 14/07/19
BOX REF: Box 22
DEPTH BASE: 59.20 (m)
BASE
- CR22 -
57.70m
59.20m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 22
DEPTH TOP: 57.70 (m)
DATE: 16 / 10 / 19
BOX REF: 22
DEPTH BASE: 59.20 (m)

BASE

-CR22-

57.70m

59.20m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

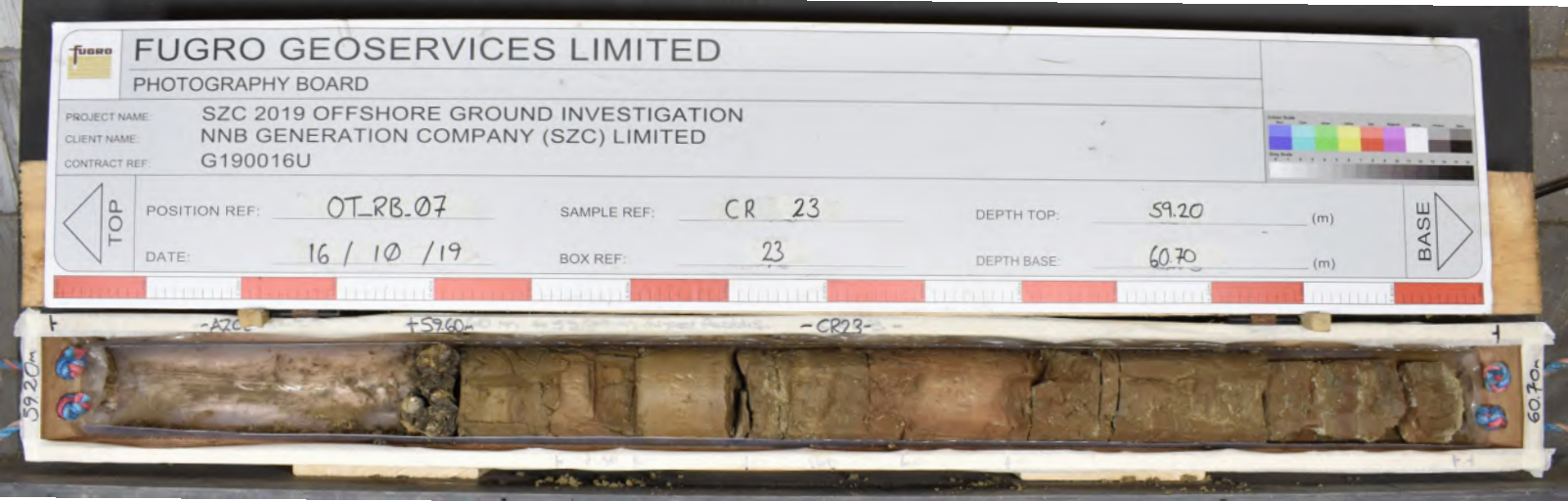
POSITION REF: OT_RB_07
SAMPLE REF: CR 23
DEPTH TOP: 59,20 (m)
DATE: 15 / 07 / 19
BOX REF: Box 23
DEPTH BASE: 60,70 (m)

BASE

-AZCL- + 59,60 m. -CR23- +

59,20m

60,70m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 23
DEPTH TOP: 59.20 (m)
DATE: 16 / 10 /19
BOX REF: 23
DEPTH BASE: 60.70 (m)
BASE
-AZC-
+59.60m
-CR23-
59.20m
60.70m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 24
BOX REF: Box 24
DEPTH TOP: 60.70 (m)
DEPTH BASE: 62.20 (m)

BASE



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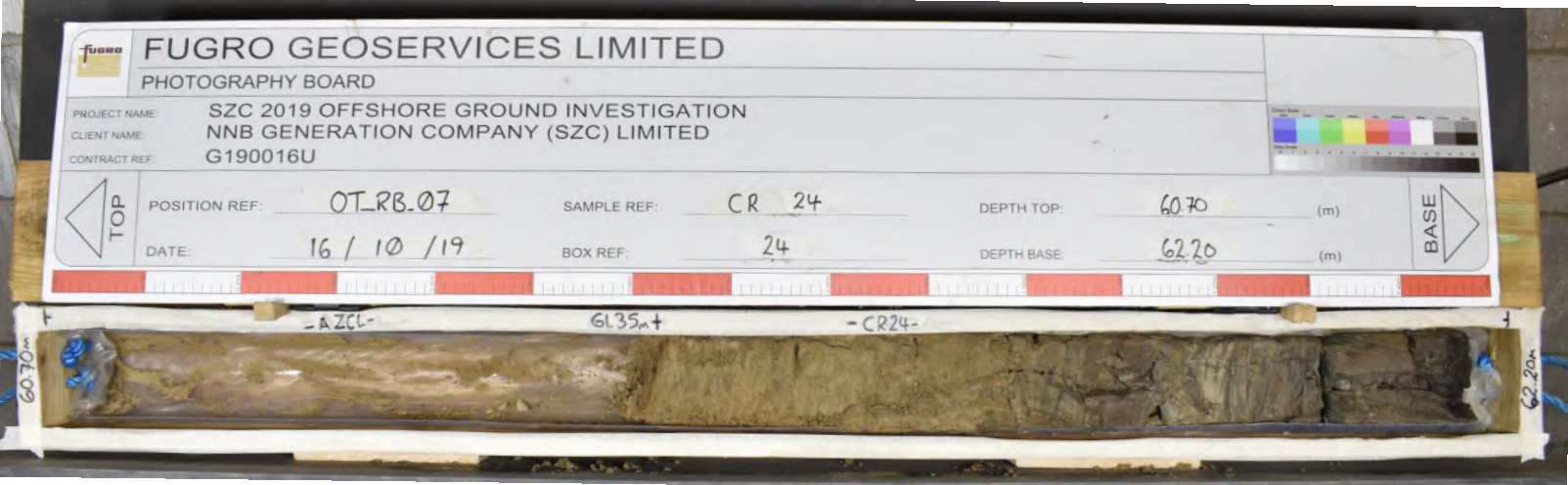
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 24
DEPTH TOP: 60.70 (m)
DATE: 16 / 10 /19
BOX REF: 24
DEPTH BASE: 62.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15/07/19
SAMPLE REF: CR 25
BOX REF: BOX 25
DEPTH TOP: 62.20 (m)
DEPTH BASE: 63.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 25
DEPTH TOP: 62.20 (m)
DATE: 16 / 10 / 19
BOX REF: 25
DEPTH BASE: 63.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 26
DEPTH TOP: 63.70 (m)
DATE: 15 / 07 / 19
BOX REF: Box 26
DEPTH BASE: 65.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07 SAMPLE REF: CR 26 DEPTH TOP: 63.70 (m)

DATE: 17/10/19 BOX REF: 26 DEPTH BASE: 65.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 27
BOX REF: Box 27
DEPTH TOP: 65.20 (m)
DEPTH BASE: 66.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 27
DEPTH TOP: 65.20 (m)

DATE: 17/10/19
BOX REF: 27
DEPTH BASE: 66.70 (m)

BASE

-CR27-

65.20m

66.70m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 28
DEPTH TOP: 66.70 (m)

DATE: 15 / 07 / 19
BOX REF: Box 28
DEPTH BASE: 68.20 (m)

BASE



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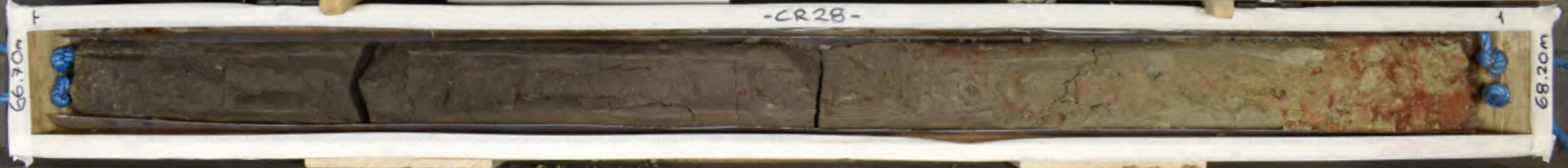
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 28
DEPTH TOP: 66.70 (m)
DATE: 17/10/19
BOX REF: 28
DEPTH BASE: 68.20 (m)

BASE

-CR28-



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 29
DEPTH TOP: 68.20 (m)

DATE: 15 / 07 / 19
BOX REF: Box 29
DEPTH BASE: 69.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 29
DEPTH TOP: 68.20 (m)
DATE: 17/10/19
BOX REF: 29
DEPTH BASE: 69.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 30
DEPTH TOP: 69.70 (m)
DATE: 15 / 07 / 19
BOX REF: Box 30
DEPTH BASE: 71.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 30
DEPTH TOP: 69.70 (m)
DATE: 17/10/19
BOX REF: 30
DEPTH BASE: 71.20 (m)
BASE
-CR30-
69.70m
71.20m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 31
DEPTH TOP: 71.20 (m)

DATE: 15 / 07 / 19
BOX REF: Box 31
DEPTH BASE: 72.70 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 32
BOX REF: Box 32
DEPTH TOP: 72.70 (m)
DEPTH BASE: 74.20 (m)

BASE



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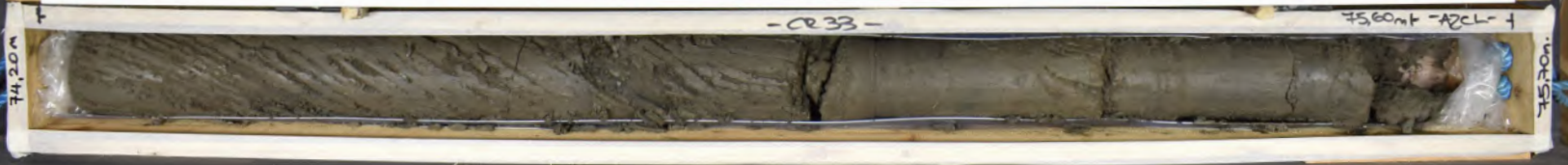
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 33
DEPTH TOP: 74.20 (m)

DATE: 15 / 07 / 19
BOX REF: Box 33
DEPTH BASE: 75.70 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 34
BOX REF: BOX 34
DEPTH TOP: 75.70 (m)
DEPTH BASE: 77.20 (m)

BASE

-CR34-

75.70m

77.20m


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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 35
DEPTH TOP: 77.20 (m)
DATE: 15 / 07 / 19
BOX REF: BOX 35
DEPTH BASE: 78.70 (m)
BASE
-CR35-
WOZ44
+78.70m

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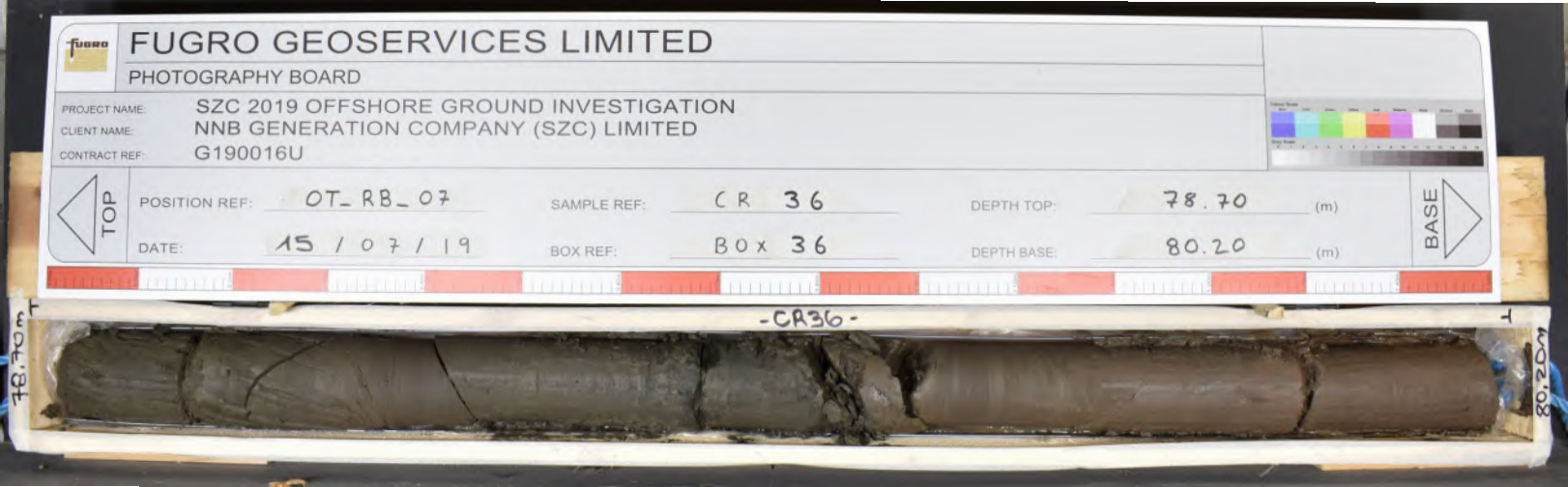
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 36
DEPTH TOP: 78.70 (m)
DATE: 15 / 07 / 19
BOX REF: BOx 36
DEPTH BASE: 80.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 37
DEPTH TOP: 80.20 (m)
DATE: 15 / 07 / 19
BOX REF: BOX 37
DEPTH BASE: 81.70 (m)
BASE
- CR37 -
80.20 m
81.70 m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 38
DEPTH TOP: 81.70 (m)

DATE: 15 / 07 / 19
BOX REF: Box 38
DEPTH BASE: 82.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 39
DEPTH TOP: 82.70 (m)

DATE: 15 / 07 / 19
BOX REF: Box 39
DEPTH BASE: 84.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 40
DEPTH TOP: 84.20 (m)
DATE: 15 / 07 / 19
BOX REF: BOX 40
DEPTH BASE: 85.70 (m)

BASE

AZCL 84.65m ↓ — CR40 —

84.20m

85.70m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 41
DEPTH TOP: 85.70 (m)

DATE: 15 / 07 / 19
BOX REF: Box 41
DEPTH BASE: 87.20 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 42+43
DEPTH TOP: 87.20 (m)

DATE: 15 / 07 / 19
BOX REF: BOX 42
DEPTH BASE: 89.70 (m)

BASE



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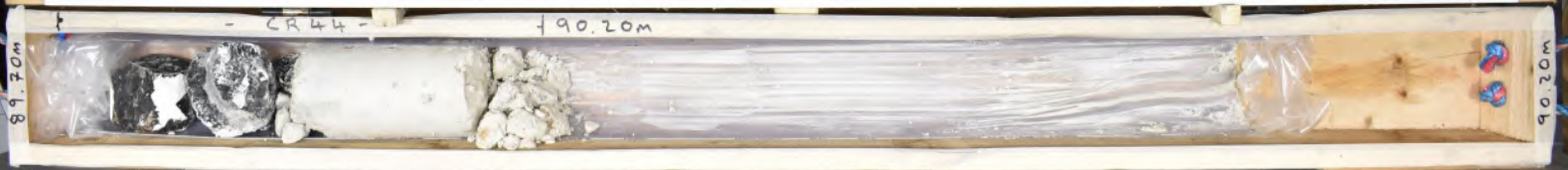
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15/07/19
SAMPLE REF: CR 44
BOX REF: Box 43
DEPTH TOP: 89.70 (m)
DEPTH BASE: 90.20 (m)

BASE



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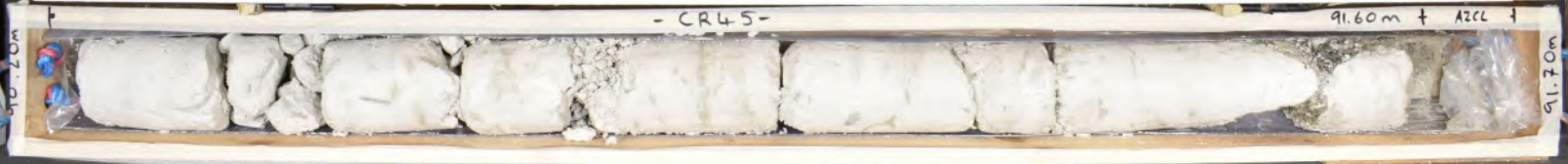
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 45
DEPTH TOP: 90.20 (m)
DATE: 15 / 07 / 19
BOX REF: Box 44
DEPTH BASE: 91.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15/07/19
SAMPLE REF: CR 46
BOX REF: BOX 45
DEPTH TOP: 91.70 (m)
DEPTH BASE: 93.20 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 47
DEPTH TOP: 93.20 (m)
DATE: 15 / 07 / 19
BOX REF: BOX 46
DEPTH BASE: 94.70 (m)
BASE
-CR47-
93.20
94.70


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 48
DEPTH TOP: 94.70 (m)
DATE: 15 / 07 / 19
BOX REF: BOX 47
DEPTH BASE: 96.20 (m)
BASE
- CR48 -
96.10m ↑ AZCL ↑
94.70m
96.20m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 49
DEPTH TOP: 96.20 (m)

DATE: 15 / 07 / 19
BOX REF: BOX 48
DEPTH BASE: 97.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 50
BOX REF: Box 49
DEPTH TOP: 97.70 (m)
DEPTH BASE: 99.20 (m)

BASE

97.70m

-CR50-

99.10 AZCL

99.20m

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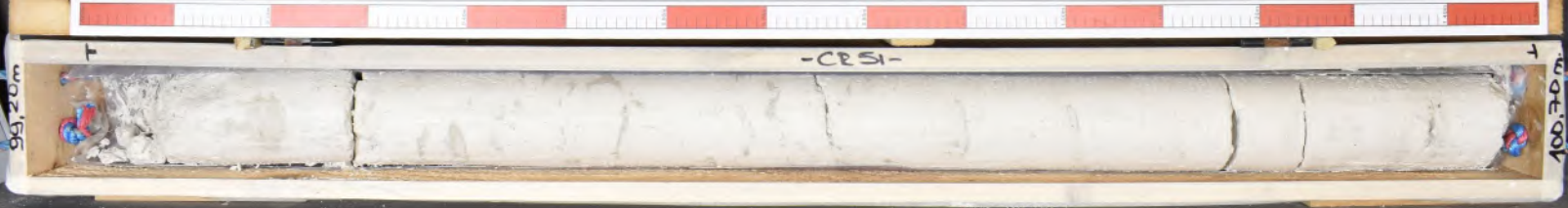
PHOTOGRAPHY BOARD

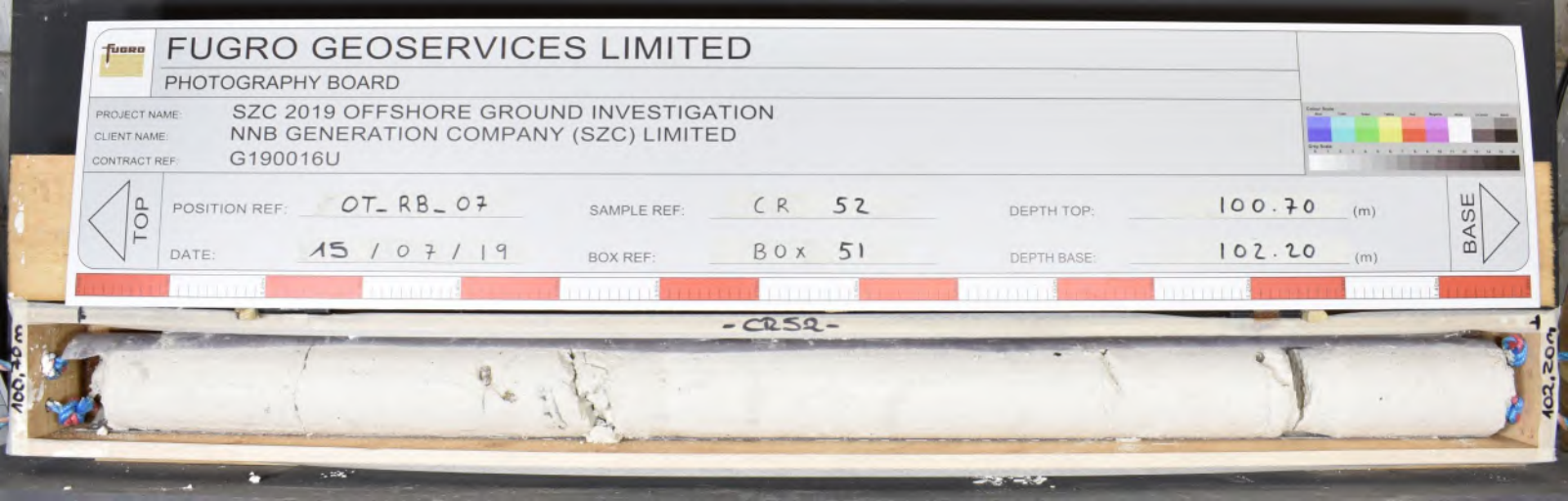
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 51
DEPTH TOP: 99.20 (m)
DATE: 15 / 07 / 19
BOX REF: Box 50
DEPTH BASE: 100.70 (m)

BASE




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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
SAMPLE REF: CR 52
DEPTH TOP: 100.70 (m)
DATE: 15 / 07 / 19
BOX REF: Box 51
DEPTH BASE: 102.20 (m)
BASE
-CR52-
100,70 m
102,20 m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 53
DEPTH TOP: 102.20 (m)
DATE: 15 / 07 / 19
BOX REF: Box 52
DEPTH BASE: 103.70 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 54
BOX REF: BOX 52A
DEPTH TOP: 103.70 (m)
DEPTH BASE: 105.20 (m)

BASE

-NO RECOVERY- -CR54- -NO RECOVERY-

103.70

105.20m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15/07/19
SAMPLE REF: CR 55
BOX REF: Box 53
DEPTH TOP: 105.20 (m)
DEPTH BASE: 106.70 (m)

BASE



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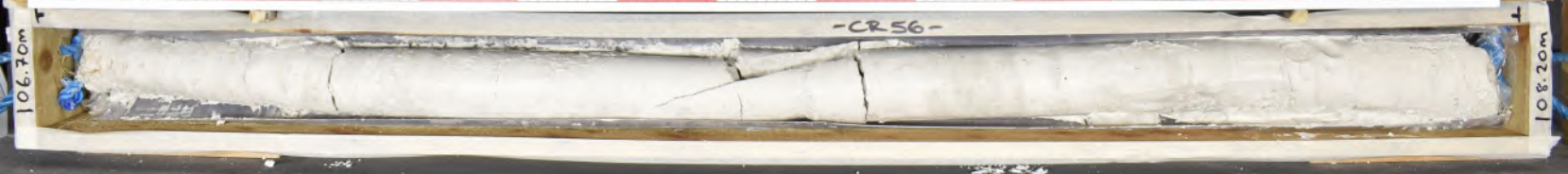
PHOTOGRAPHY BOARD

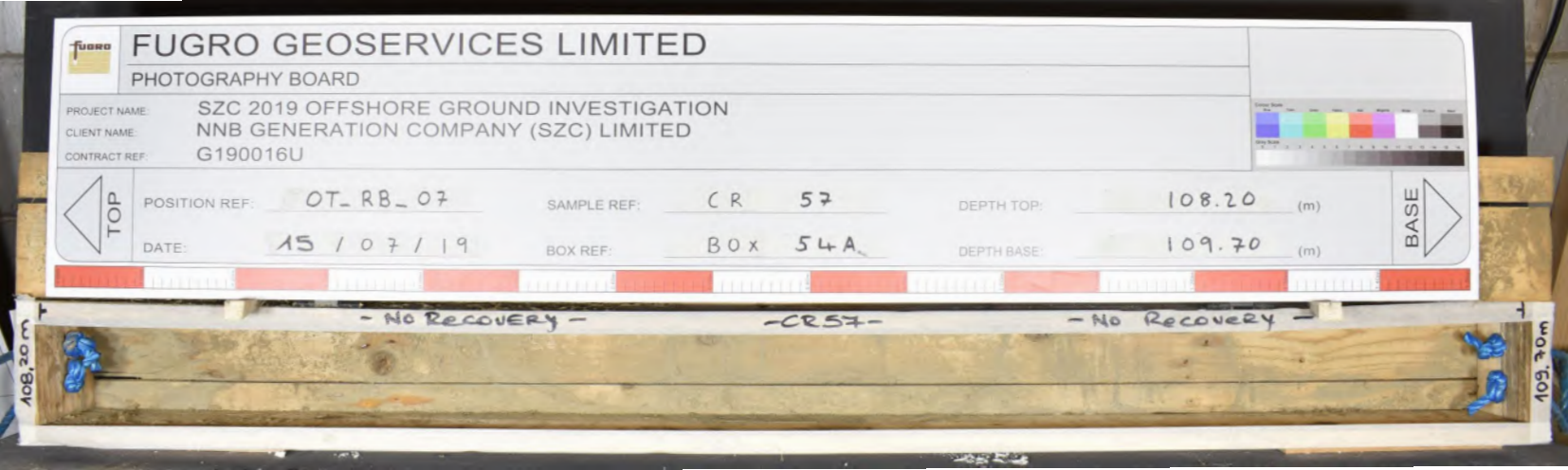
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
SAMPLE REF: CR 56
DEPTH TOP: 106.70 (m)
DATE: 15 / 07 / 19
BOX REF: Box 54
DEPTH BASE: 108.20 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_RB_07
DATE: 15/07/19
SAMPLE REF: CR 57
BOX REF: BOX 54A
DEPTH TOP: 108.20 (m)
DEPTH BASE: 109.70 (m)
BASE
- NO RECOVERY -
-CR57-
- NO RECOVERY -
108.20 m
109.70 m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_RB_07
DATE: 15 / 07 / 19
SAMPLE REF: CR 58
BOX REF: Box 55
DEPTH TOP: 109.70 (m)
DEPTH BASE: 111.20 (m)

BASE



Appendix E

Field Test Results

Appendix E Contents

E.1 Standard Penetration Tests (SPTs)
- E.1.1 Standard Penetration Test Results – Intake 1
- E.1.2 Standard Penetration Test Results – Intake 2
- E.1.3 Standard Penetration Test Results – Outfall

E.2 Equipment Calibration Records

E.1 Standard Penetration Tests (SPTs)

E.1.1 Standard Penetration Test Results – Intake 1

(referenced by position ID)

E.1.2 Standard Penetration Test Results – Intake 2

(referenced by position ID)

E.1.3 Standard Penetration Test Results – Outfall

(referenced by position ID)

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	4,5	150	12,20,18	225		
2.00	2.00	SPT15	52	S	0	5,6	150	9,12,14,15	300	50	43
4.00	4.00	SPT15	52	S	0	4,7	150	10,13,27	220		
6.00	6.00	SPT15	52	S	0	5,8	150	15,15,18,2	230		
8.00	8.00	SPT15	52	S	0	5,10	150	10,10,15,15	300	50	43
10.00	10.00	SPT15	52	S	0	10,15	125	30,20	110		
12.00	12.00	SPT15	52	S	0	20,5	90	35,15	100		
14.00	14.00	SPT15	52	S	0	8,17	125	38,12	95		
16.00	16.00	SPT15	52	S	0	14,11	105	50	75		
18.00	18.00	SPT15	52	S	0	7,15	150	20,25,5	155		
20.00	20.00	SPT15	52	S	0	10,15	135	28,22	115		
22.00	22.00	SPT15	52	S	0	11,14	120	36,14	100		
24.00	24.00	SPT15	52	S	0	10,15	110	50	70		
26.00	26.00	SPT15	52	S	0	10,15	100	26,24	130		
28.00	28.00	SPT15	52	S	0	12,13	120	25,25	120		
30.00	30.00	SPT15	52	S	0	15,10	110	30,20	105		
32.00	32.00	SPT15	52	S	0	10,15	130	25,25	115		
34.00	34.00	SPT15	52	S	0	20,5	90	37,13	80		
36.00	36.00	SPT15	52	S	0	19,6	95	46,4	85		
38.00	38.00	SPT15	52	S	0	8,17	120	43,7	90		
40.00	40.00	SPT15	52	S	0	9,10	150	11,12,13,14	300	50	43
42.00	42.00	SPT15	52	S	0	6,3	150	8,8,9,10	300	35	30
44.00	44.00	SPT15	52	S	0	6,7	150	9,9,9,10	300	37	32

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	1,1	150	1,1,1,7	300	10	9
2.00	2.00	SPT15	52	S	0	3,8	150	10,12,13,15	280		
4.00	4.00	SPT15	52	S	0	5,9	150	14,20,16	210		
6.00	6.00	SPT15	52	S	0	6,12	150	18,20,12	185		
8.00	8.00	SPT15	52	S	0	6,12	150	20,25,5	160		
10.00	10.00	SPT15	52	S	0	7,16	150	23,27	135		
12.00	12.00	SPT15	52	S	0	10,14	150	18,25,7	180		
14.00	14.00	SPT15	52	S	0	1,2	150	9,21,20	200		
16.00	16.00	SPT15	52	S	0	7,15	150	25,23,2	160		
18.00	18.00	SPT15	52	S	0	17,8	95	25,25	150		
20.00	20.00	SPT15	52	S	0	10,15	120	47,3	85		
22.00	22.00	SPT15	52	S	0	14,11	110	10,35,5	160		
24.00	24.00	SPT15	52	S	0	11,14	120	28,22	130		
26.00	26.00	SPT15	52	S	0	10,15	120	23,27	145		
28.00	28.00	SPT15	52	S	0	6,9	150	15,16,18,1	230		
30.00	30.00	SPT15	52	S	0	3,6	150	11,13,15,11	265		
32.00	32.00	SPT15	52	S	0	4,6	150	16,25,9	175		
34.00	34.00	SPT15	52	S	0	6,15	150	33,17	105		
36.00	36.00	SPT15	52	S	0	18,7	90	40,10	90		
38.00	38.00	SPT15	52	S	0	20,5	90	45,5	80		
40.00	40.00	SPT15	52	S	0	1,8	150	8,12,10,10	300	40	35
42.00	42.00	SPT15	52	S	0	6,3	150	8,8,9,10	300	35	30
44.00	44.00	SPT15	52	S	0	5,7	150	8,8,8,8	300	32	28

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.70	SPT15	52	S	0	2,4	150	5,6,8,7	300	26	23
2.00	2.00	SPT15	52	S	0	6,6	150	7,7,8,9	300	31	27
4.00	4.00	SPT15	52	S	0	4,6	150	8,11,10,21	300	50	43
6.00	6.00	SPT15	52	S	0	5,4	150	1,1,1,1	300	4	3
8.00	8.00	SPT15	52	S	0	13,12	120	39,11	100		
10.00	10.00	SPT15	52	S	0	5,8	150	12,17,19,2	226		
12.00	12.00	SPT15	52	S	0	13,12	105	21,26,3	151		
14.00	14.00	SPT15	52	S	0	7,13	150	20,26,4	165		
16.00	16.00	SPT15	52	S	0	9,16	150	21,29	150		
18.00	18.00	SPT15	52	S	0	14,11	110	24,20,6	160		
20.00	20.00	SPT15	52	S	0	7,10	150	11,12,13,14	300	50	43
22.00	22.00	SPT15	52	S	0	7,8	150	11,12,14,13	300	50	43
24.00	24.00	SPT15	52	S	0	5,5	150	7,11,8,10	300	36	31
26.00	26.00	SPT15	52	S	0	4,5	150	7,9,10,10	300	36	31
28.00	28.00	SPT15	52	S	0	4,6	150	7,9,9,10	300	35	30
30.00	30.00	SPT15	52	S	0	5,7	150	7,8,9,9	300	33	29
32.00	32.00	SPT15	52	S	0	5,4	150	6,9,10,9	300	34	29
34.00	34.00	SPT15	52	S	0	5,5	150	6,8,8,9	300	31	27
36.00	36.00	SPT15	52	S	0	5,5	150	5,8,8,7	300	28	24
38.00	38.00	SPT15	52	S	0	5,6	150	6,10,11,12	300	39	34
40.00	40.00	SPT15	52	S	0	5,7	150	7,10,10,10	300	37	32
42.00	42.00	SPT15	52	S	0	5,6	150	7,11,14,15	300	47	41
44.00	44.00	SPT15	52	S	0	5,7	150	12,12,14,12	300	50	43
46.00	46.00	SPT15	52	S	0	5,6	150	8,8,8,11	300	35	30
48.00	48.00	SPT15	52	S	0	5,7	150	8,8,10,10	300	36	31
50.00	50.00	SPT15	52	S	0	6,8	150	8,9,11,11	300	39	34
52.00	52.00	SPT15	52	S	0	5,8	150	8,8,9,11	300	36	31
54.00	54.00	SPT15	52	S	0	5,8	150	8,8,8,11	300	35	30

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	3,2	150	3,3,4,4	300	14	12
2.00	2.00	SPT15	52	S	0	3,3	150	5,5,9,10	300	29	25
4.00	4.00	SPT15	52	S	0	2,4	150	6,9,10,9	300	34	29
6.00	6.00	SPT15	52	S	0	6,10	150	11,15,10,10	300	46	40
8.00	8.00	SPT15	52	S	0	4,6	150	7,9,9,7	300	32	28
10.00	10.00	SPT15	52	S	0	1,2	150	5,7,8,9	300	29	25
12.00	12.00	SPT15	52	S	0	2,3	150	4,6,10,10	300	30	26
14.00	14.00	SPT15	52	S	0	7,11	150	17,14,14,5	280		
16.00	16.00	SPT15	52	S	0	4,8	150	7,10,10,10	300	37	32
18.00	18.00	SPT15	52	S	0	1,1	150	4,9,11,9	300	33	29
20.00	20.00	SPT15	52	S	0	3,4	150	4,10,15,16	300	45	39
22.00	22.00	SPT15	52	S	0	4,4	150	3,9,16,17	300	45	39
24.00	24.00	SPT15	52	S	0	1,8	150	10,10,10,13	300	43	37
26.00	26.00	SPT15	52	S	0	4,6	150	9,10,12,13	300	44	38

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	2,4	150	5,4,5,7	300	21	18
2.00	2.00	SPT15	52	S	0	2,3	150	5,5,4,5	300	19	16
4.00	4.00	SPT15	52	S	0	2,4	150	8,7,5,6	300	26	23
6.00	6.00	SPT15	52	S	0	2,3	150	4,6,6,7	300	23	20
8.00	8.00	SPT15	52	S	0	3,3	150	3,4,6,8	300	21	18
10.00	10.00	SPT15	52	S	0	5,7	150	7,7,9,9	300	32	28
12.00	12.00	SPT15	52	S	0	4,4	150	5,6,7,6	300	24	21
14.00	14.00	SPT15	52	S	0	7,8	150	8,7,8,9	300	32	28
16.00	16.00	SPT15	52	S	0	5,6	150	7,9,10,8	300	34	29
18.00	18.00	SPT15	52	S	0	4,4	150	10,6,10,10	300	36	31
20.00	20.00	SPT15	52	S	0	3,3	150	2,4,13,11	300	30	26
22.00	22.00	SPT15	52	S	0	3,4	150	4,9,12,14	300	39	34
24.00	24.00	SPT15	52	S	0	5,6	150	7,9,9,10	300	35	30
26.00	26.00	SPT15	52	S	0	7,7	150	7,8,9,10	300	34	29
28.00	28.00	SPT15	52	S	0	5,6	150	6,8,8,10	300	32	28

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	1.50	SPT15	52	S	0	2,2	150	4,6,8,9	300	27	23
2.00	2.00	SPT15	52	S	0	2,5	150	7,11,11,11	300	40	35
4.00	4.00	SPT15	52	S	0	2,3	150	4,8,8,8	300	28	24
6.00	6.00	SPT15	52	S	0	5,7	150	11,12,14,13	300	50	43
8.00	8.00	SPT15	52	S	0	1,1	150	4,6,9,7	300	26	23
10.00	10.00	SPT15	52	S	0	3,3	150	5,6,6,5	300	22	19
12.00	12.00	SPT15	52	S	0	5,8	150	9,13,11,11	300	44	38
14.00	14.00	SPT15	52	S	0	4,4	150	4,6,6,6	300	22	19
16.00	16.00	SPT15	52	S	0	4,5	150	6,6,8,8	300	28	24
18.00	18.00	SPT15	52	S	0	4,8	150	11,12,13,14	300	50	43
20.00	20.00	SPT15	52	S	0	6,7	150	8,12,11,11	300	42	36
22.00	22.00	SPT15	52	S	0	2,6	150	8,10,10,10	300	38	33
24.00	24.00	SPT15	52	S	0	4,5	150	4,4,6,6	300	20	17
26.00	26.00	SPT15	52	S	0	4,4	150	5,8,8,10	300	31	27
28.00	28.00	SPT15	52	S	0	5,5	150	7,6,8,9	300	30	26
30.00	30.00	SPT15	52	S	0	4,4	150	5,7,8,8	300	28	24
32.00	32.00	SPT15	52	S	0	4,5	150	6,7,8,9	300	30	26
34.00	34.00	SPT15	52	S	0	5,5	150	6,6,7,9	300	28	24
36.00	36.00	SPT15	52	S	0	4,6	150	6,10,9,13	300	38	33
38.00	38.00	SPT15	52	S	0	4,7	150	10,11,15,14	300	50	43
40.00	40.00	SPT15	52	S	0	6,10	150	10,12,13,14	300	49	42
42.00	42.00	SPT15	52	S	0	5,8	150	9,12,19,10	230		
44.00	44.00	SPT15	52	S	0	5,7	150	8,13,14,15	300	50	43
46.00	46.00	SPT15	52	S	0	5,20	105	50	5		
48.00	48.00	SPT15	52	S	0	7,6	150	6,8,8,8	300	30	26
50.00	50.00	SPT15	52	S	0	25	10	50	0		
52.00	52.00	SPT15	52	S	0	5,7	150	7,8,9,10	300	34	29
54.00	54.00	SPT15	52	S	0	6,8	150	8,9,11,11	300	39	34

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	3,3	150	3,3,3,4	300	13	11
2.00	2.00	SPT15	52	S	0	2,4	150	3,4,4,5	300	16	14
4.00	4.00	SPT15	52	S	0	3,4	150	3,5,5,5	300	18	16
6.00	6.00	SPT15	52	S	0	3,4	150	4,7,7,9	300	27	23
8.00	8.00	SPT15	52	S	0	5,6	150	7,6,5,7	300	25	22
10.00	10.00	SPT15	52	S	0	5,5	150	6,7,7,8	300	28	24
12.00	12.00	SPT15	52	S	0	2,4	150	3,4,4,5	300	16	14
14.00	14.00	SPT15	52	S	0	4,4	150	5,4,6,7	300	22	19
16.00	16.00	SPT15	52	S	0	3,3	150	4,5,6,9	300	24	21
18.00	18.00	SPT15	52	S	0	5,5	150	5,7,8,9	300	29	25
20.00	20.00	SPT15	52	S	0	1,2	150	3,6,9,11	300	29	25
22.00	22.00	SPT15	52	S	0	2,5	150	6,10,12,14	300	42	36
24.00	24.00	SPT15	52	S	0	5,6	150	7,10,11,10	300	38	33
26.00	26.00	SPT15	52	S	0	4,5	150	7,8,8,9	300	32	28
28.00	28.00	SPT15	52	S	0	4,5	150	6,7,8,9	300	30	26
30.00	30.00	SPT15	52	S	0	3,5	150	5,8,9,9	300	31	27
32.00	32.00	SPT15	52	S	0	4,5	150	5,6,7,8	300	26	23
34.00	34.00	SPT15	52	S	0	4,5	150	6,7,7,7	300	27	23
36.00	36.00	SPT15	52	S	0	1,1	150	6,6,7,10	300	29	25
38.00	38.00	SPT15	52	S	0	4,6	150	8,8,9,11	300	36	31
40.00	40.00	SPT15	52	S	0	5,5	150	8,9,9,12	300	38	33
42.00	42.00	SPT15	52	S	0	6,5	150	7,8,8,11	300	34	29
44.00	44.00	SPT15	52	S	0	5,8	150	9,9,11,15	300	44	38
46.00	46.00	SPT15	52	S	0	4,7	150	9,9,11,14	300	43	37
48.00	48.00	SPT15	52	S	0	7,9	150	10,10,9,13	300	42	36
50.00	50.00	SPT15	52	S	0	5,6	150	10,9,11,11	300	41	36
52.00	52.00	SPT15	52	S	0	5,5	150	8,8,10,10	300	36	31
54.00	54.00	SPT15	52	S	0	6,6	150	6,11,11,11	300	39	34

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	1.10	SPT15	52	S	0	6,10	150	19,25,6	190		
2.00	2.00	SPT15	52	S	0	8,7	150	8,9,12,16	300	45	39
4.00	4.00	SPT15	52	S	0	2,3	150	5,8,10,11	300	34	29
6.00	6.00	SPT15	52	S	0	3,6	150	5,8,9,8	300	30	26
8.00	8.00	SPT15	52	S	0	3,2	150	5,8,11,11	300	35	30
10.00	10.00	SPT15	52	S	0	9,16	150	9,16,21,4	270		
12.00	12.00	SPT15	52	S	0	5,7	150	13,20,14,3	240		
14.00	14.00	SPT15	52	S	0	14,11	120	50	70		
16.00	16.00	SPT15	52	S	0	7,9	150	17,23,10	180		
18.00	18.00	SPT15	52	S	0	8,10	150	20,25,5	160		
20.00	20.00	SPT15	52	S	0	5,20	150	40,10	80		
22.00	22.00	SPT15	52	S	0	3,18	150	25,25	80		
24.00	24.00	SPT15	52	S	0	21,4	105	31,19	105		
26.00	26.00	SPT15	52	S	0	21,4	80	32,18	105		
28.00	28.00	SPT15	52	S	0	16,9	115	37,13	95		
30.00	30.00	SPT15	52	S	0	20,5	85	35,15	105		
32.00	32.00	SPT15	52	S	0	23,2	85	40,10	80		
34.00	34.00	SPT15	52	S	0	17,8	125	28,22	85		
36.00	36.00	SPT15	52	S	0	18,7	85	38,12	85		
38.00	38.00	SPT15	52	S	0	12,13	100	20,30	105		
40.00	40.00	SPT15	52	S	0	19,6	95	41,9	100		
42.00	42.00	SPT15	52	S	0	4,6	150	6,9,9,9	300	33	29
44.00	44.00	SPT15	52	S	0	4,5	150	5,7,10,8	300	30	26
46.00	46.00	SPT15	52	S	0	5,5	150	6,9,8,8	300	31	27
48.00	48.00	SPT15	52	S	0	3,3	150	4,7,8,9	300	28	24
50.00	50.00	SPT15	52	S	0	3,4	150	6,7,9,9	300	31	27
52.00	52.00	SPT15	52	S	0	5,6	150	7,10,11,11	300	39	34
54.00	54.00	SPT15	52	S	0	5,8	150	8,15,13,13	300	49	42

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	3,5	150	7,10,12,10	300	39	34
2.00	2.00	SPT15	52	S	0	4,9	150	6,9,9,8	300	32	28
4.00	4.00	SPT15	52	S	0	4,6	150	7,7,10,9	300	33	29
6.00	6.00	SPT15	52	S	0	3,5	150	3,3,2,2	300	10	9
8.00	8.00	SPT15	52	S	0	2,5	150	15,17,18	170		
10.00	10.00	SPT15	52	S	0	5,15	150	25,25	140		
12.00	12.00	SPT15	52	S	0	3,17	150	34,16	100		
14.00	14.00	SPT15	52	S	0	11,14	140	23,27	140		
16.00	16.00	SPT15	52	S	0	5,20	140	25,25	100		
18.00	18.00	SPT15	52	S	0	7,18	140	42,8	110		
20.00	20.00	SPT15	52	S	0	6,19	135	28,22	120		
22.00	22.00	SPT15	52	S	0	10,15	135	30,20	115		
24.00	24.00	SPT15	52	S	0	8,17	140	30,20	105		
26.00	26.00	SPT15	52	S	0	11,14	125	40,10	85		
28.00	28.00	SPT15	52	S	0	7,18	140	36,14	100		
30.00	30.00	SPT15	52	S	0	9,16	130	35,15	100		
32.00	32.00	SPT15	52	S	0	6,14	150	10,18,20,2	235		
34.00	34.00	SPT15	52	S	0	5,7	150	14,17,19	205		
36.00	36.00	SPT15	52	S	0	10,15	120	37,13	100		
38.00	38.00	SPT15	52	S	0	14,11	105	35,15	95		
40.00	40.00	SPT15	52	S	0	16,9	100	35,15	100		
42.00	42.00	SPT15	52	S	0	13,12	130	23,27	130		
44.00	44.00	SPT15	52	S	0	25	70	50	60		
46.00	46.00	SPT15	52	S	0	5,6	150	13,21,10,6	300	50	43
48.00	48.00	SPT15	52	S	0	4,5	150	7,10,4,9	300	30	26
50.00	50.00	SPT15	52	S	0	2,2	150	5,6,6,8	300	25	22

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	3,2	150	4,6,6,4	300	20	17
2.00	2.00	SPT15	52	S	0	1,2	150	3,1,5,6	300	15	13
4.00	4.00	SPT15	52	S	0	8,17	140	27,23	100		
6.00	6.00	SPT15	52	S	0	4,12	150	10,12,20,8	240		
8.00	8.00	SPT15	52	S	0	3,10	150	20,21,9	160		
10.00	10.00	SPT15	52	S	0	1,12	150	20,18,12	160		
12.00	12.00	SPT15	52	S	0	2,8	150	16,21,13	195		
14.00	14.00	SPT15	52	S	0	10,15	125	25,25	135		
16.00	16.00	SPT15	52	S	0	7,18	150	26,24	130		
18.00	18.00	SPT15	52	S	0	11,14	120	50	70		
20.00	20.00	SPT15	52	S	0	9,16	140	25,25	125		
22.00	22.00	SPT15	52	S	0	12,13	110	50	70		
24.00	24.00	SPT15	52	S	0	13,12	90	50	65		
26.00	26.00	SPT15	52	S	0	12,13	120	41,9	100		
28.00	28.00	SPT15	52	S	0	10,15	125	36,14	100		
30.00	30.00	SPT15	52	S	0	11,14	105	50	65		
32.00	32.00	SPT15	52	S	0	14,11	95	40,10	85		
34.00	34.00	SPT15	52	S	0	5,7	150	7,8,10,13	300	38	33
36.00	36.00	SPT15	52	S	0	4,6	150	7,7,10,9	300	33	29
38.00	38.00	SPT15	52	S	0	5,6	150	7,9,9,11	300	36	31

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	100	0,2	150	3,4,1,1	300	9	8
2.00	2.00	SPT15	52	S	0	8,9	150	10,14,16,10	270		
4.00	4.00	SPT15	52	S	0	8,10	150	14,20,16	200		
6.00	6.00	SPT15	52	S	0	5,14	150	15,35	150		
8.00	8.00	SPT15	52	S	0	6,19	150	23,27	170		
10.00	10.00	SPT15	52	S	0	5,14	150	19,31	150		
12.00	12.00	SPT15	52	S	0	14,11	90	16,29,5	160		
14.00	14.00	SPT15	52	S	0	3,9	150	25,25	115		
16.00	16.00	SPT15	52	S	0	10,15	135	26,22,2	160		
18.00	18.00	SPT15	52	S	0	14,11	115	20,30	150		
20.00	20.00	SPT15	52	S	0	9,16	135	35,15	95		
22.00	22.00	SPT15	52	S	0	8,17	125	18,30,2	155		
24.00	24.00	SPT15	52	S	0	8,17	150	20,25,5	155		
26.00	26.00	SPT15	52	S	0	6,19	140	50	75		
28.00	28.00	SPT15	52	S	0	8,17	120	35,15	100		
30.00	30.00	SPT15	52	S	0	13,12	90	50	60		
32.00	32.00	SPT15	52	S	0	13,12	100	40,10	90		
34.00	34.00	SPT15	52	S	0	25	70	50	60		
36.00	36.00	SPT15	52	S	0	9,14	100	12,35,3	160		
38.00	38.00	SPT15	52	S	0	4,6	150	6,8,9,10	300	33	29
40.00	40.00	SPT15	52	S	0	5,6	150	6,6,9,9	300	30	26
42.00	42.00	SPT15	52	S	0	5,7	150	7,7,10,11	300	35	30
44.00	44.00	SPT15	52	S	0	6,11	150	13,37	115		
46.00	46.00	SPT15	52	S	0	5,7	150	6,7,10,11	300	34	29
48.00	48.00	SPT15	52	S	0	5,6	150	8,8,10,14	300	40	35
50.00	50.00	SPT15	52	S	0	5,7	150	7,6,9,9	300	31	27
52.00	52.00	SPT15	52	S	0	5,6	150	6,9,10,25	250		
54.00	54.00	SPT15	52	S	0	5,6	150	8,10,10,10	300	38	33

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.80	SPT15	52	S	0	3,4	150	2,1,1,1	300	5	4
2.00	2.00	SPT15	52	S	0	7,8	150	8,8,9,11	300	36	31
4.00	4.00	SPT15	52	S	0	4,5	150	5,6,8,1	300	20	17
6.00	6.00	SPT15	52	S	0	3,7	150	13,14,21,2	230		
8.00	8.00	SPT15	52	S	0	8,13	150	21,29	150		
10.00	10.00	SPT15	52	S	0	9,16	125	33,17	105		
12.00	12.00	SPT15	52	S	0	4,12	150	25,25	105		
14.00	14.00	SPT15	52	S	0	10,15	135	36,14	95		
16.00	16.00	SPT15	52	S	0	9,16	135	38,12	85		
18.00	18.00	SPT15	52	S	0	4,6	150	12,27,11	160		
20.00	20.00	SPT15	52	S	0	5,18	150	29,21	90		
22.00	22.00	SPT15	52	S	0	11,14	115	19,31	135		
24.00	24.00	SPT15	52	S	0	10,15	140	33,17	105		
26.00	26.00	SPT15	52	S	0	11,14	125	9,33,8	160		
28.00	28.00	SPT15	52	S	0	11,14	125	26,24	125		
30.00	30.00	SPT15	52	S	0	12,13	115	32,18	95		
32.00	32.00	SPT15	52	S	0	1,1	150	6,7,14,22	300	49	42
34.00	34.00	SPT15	52	S	0	9,16	140	17,33	145		
36.00	36.00	SPT15	52	S	0	15,10	75	29,21	95		
38.00	38.00	SPT15	52	S	0	18,7	95	29,21	125		
40.00	40.00	SPT15	52	S	0	12,13	105	25,25	95		
42.00	42.00	SPT15	52	S	0	3,6	150	8,10,11,10	300	39	34
44.00	44.00	SPT15	52	S	0	5,7	150	8,9,10,10	300	37	32
46.00	46.00	SPT15	52	S	0	3,6	150	6,8,7,9	300	30	26
48.00	48.00	SPT15	52	S	0	5,6	150	6,8,10,8	300	32	28
50.00	50.00	SPT15	52	S	0	4,7	150	7,11,12,16	300	46	40
52.00	52.00	SPT15	52	S	0	4,8	150	8,10,11,10	300	39	34
54.00	54.00	SPT15	52	S	0	6,8	150	9,13,13,15	250		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	75	0,2	150	3,4,6,4	300	17	15
2.00	2.00	SPT15	52	S	0	3,4	150	6,3,0,0	300	9	8
4.00	4.00	SPT15	52	S	225	0,0	150	0,1,1,0	300	2	2
6.00	6.00	SPT15	52	S	225	0,0	150	0,3,4,4	300	11	10
8.00	8.00	SPT15	52	S	0	4,13	150	19,14,17	200		
10.00	10.00	SPT15	52	S	0	3,11	150	13,20,17	190		
12.00	12.00	SPT15	52	S	0	4,12	150	20,30	150		
14.00	14.00	SPT15	52	S	0	2,6	150	9,29,12	180		
16.00	16.00	SPT15	52	S	0	5,20	145	34,16	100		
18.00	18.00	SPT15	52	S	0	4,10	150	14,27,9	170		
20.00	20.00	SPT15	52	S	0	4,17	150	22,28	80		
22.00	22.00	SPT15	52	S	0	12,13	90	22,28	80		
24.00	24.00	SPT15	52	S	0	10,15	140	37,13	80		
26.00	26.00	SPT15	52	S	0	8,17	130	21,29	120		
28.00	28.00	SPT15	52	S	0	7,18	130	25,25	110		
30.00	30.00	SPT15	52	S	0	15,10	130	27,23	110		
32.00	32.00	SPT15	52	S	0	8,17	135	19,25,6	160		
34.00	34.00	SPT15	52	S	0	5,10	150	14,15,21	225		
36.00	36.00	SPT15	52	S	0	15,10	105	12,28,10	165		
38.00	38.00	SPT15	52	S	0	25	75	40,10	85		
40.00	40.00	SPT15	52	S	0	16,9	80	26,24	140		
42.00	42.00	SPT15	52	S	0	17,8	95	25,25	120		
44.00	44.00	SPT15	52	S	0	25	75	30,20	110		
46.00	46.00	SPT15	52	S	75	0,6	150	9,9,10,6	300	34	29
48.00	48.00	SPT15	52	S	0	3,7	150	8,10,11,21	270		
50.00	50.00	SPT15	52	S	0	25	75	50	25		
52.00	52.00	SPT15	52	S	0	4,6	150	8,10,11,12	300	41	36
54.00	54.00	SPT15	52	S	0	4,8	150	7,12,11,11	300	41	36

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	4,13	150	30,20	115		
2.00	2.00	SPT15	52	S	0	3,4	150	2,4,4,4	300	14	12
4.00	4.00	SPT15	52	S	0	5,8	150	8,9,6,8	300	31	27
6.00	6.00	SPT15	52	S	0	2,3	150	7,7,10,10	300	34	29
8.00	8.00	SPT15	52	S	0	2,5	150	8,9,8,8	300	33	29
10.00	10.00	SPT15	52	S	0	5,9	150	10,13,15,12	300	50	43
12.00	12.00	SPT15	52	S	0	3,1	150	4,10,10,9	300	33	29
14.00	14.00	SPT15	52	S	0	1,5	150	8,10,11,13	300	42	36
16.00	16.00	SPT15	52	S	0	4,7	150	8,7,7,11	300	33	29
18.00	18.00	SPT15	52	S	0	6,7	150	8,5,7,9	300	29	25
20.00	20.00	SPT15	52	S	0	6,8	150	8,7,10,10	300	35	30
22.00	22.00	SPT15	52	S	0	5,6	150	7,8,9,10	300	34	29
24.00	24.00	SPT15	52	S	0	3,7	150	8,10,15,15	300	48	42
26.00	26.00	SPT15	52	S	0	5,7	150	7,10,9,12	300	38	33
28.00	28.00	SPT15	52	S	0	2,5	150	5,7,10,9	300	31	27

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	450	0	150	0	300		
2.00	2.00	SPT15	52	S	0	3,6	150	7,6,7,10	300	30	26
4.00	4.00	SPT15	52	S	0	3,8	150	9,13,15,13	280		
6.00	6.00	SPT15	52	S	0	7,13	150	22,22,6	170		
8.00	8.00	SPT15	52	S	0	6,13	150	22,28	140		
10.00	10.00	SPT15	52	S	0	7,18	150	29,21	120		
12.00	12.00	SPT15	52	S	0	7,18	120	50	65		
14.00	14.00	SPT15	52	S	0	8,12	150	25,25	145		
16.00	16.00	SPT15	52	S	0	14,11	150	20,22,8	160		
18.00	18.00	SPT15	52	S	0	6,13	150	17,27,6	160		
20.00	20.00	SPT15	52	S	0	3,7	150	26,24	130		
22.00	22.00	SPT15	52	S	0	4,8	150	28,22	140		
24.00	24.00	SPT15	52	S	0	4,7	150	4,14,8,10	300	36	31
26.00	26.00	SPT15	52	S	0	5,7	150	7,9,9,12	300	37	32
28.00	28.00	SPT15	52	S	0	4,5	150	6,7,5,9	300	27	23

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
2.00	2.00	SPT15	52	S	0	2,4	150	6,8,9,10	300	33	29
4.00	4.00	SPT15	52	S	0	3,9	150	11,17,22	225		
6.00	6.00	SPT15	52	S	0	3,6	150	10,16,20,4	240		
8.00	8.00	SPT15	52	S	0	2,5	150	17,24,9	170		
10.00	10.00	SPT15	52	S	0	3,2	150	2,7,6,7	300	22	19
12.00	12.00	SPT15	52	S	0	4,9	150	9,11,11,11	300	42	36
14.00	14.00	SPT15	52	S	0	4,5	150	5,7,7,9	300	28	24
16.00	16.00	SPT15	52	S	0	2,3	150	6,8,8,8	300	30	26
18.00	18.00	SPT15	52	S	0	2,6	150	8,9,9,10	300	36	31
20.00	20.00	SPT15	52	S	0	3,6	150	8,13,16,13	300	50	43
22.00	22.00	SPT15	52	S	0	4,7	150	10,10,12,13	300	45	39
24.00	24.00	SPT15	52	S	0	9,12	150	13,15,9,10	300	47	41
26.00	26.00	SPT15	52	S	0	3,6	150	6,9,9,9	300	33	29
28.00	28.00	SPT15	52	S	0	4,7	150	7,8,10,9	300	34	29
30.00	30.00	SPT15	52	S	0	3,1	150	2,7,6,6	300	21	18

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Standard Penetration Test Results

Test Depth (m)	Casing Depth (m)	Hammer Serial Number	Energy Ratio (%)	Test Type	Self Weight Penetration (mm)	Seating Drive		Main Test Drive		N Value	N60
						Blows	Penetration (mm)	Blows	Penetration (mm)		
0.00	0.00	SPT15	52	S	0	4,6	150	7,9,8,7	300	31	27
2.00	2.00	SPT15	52	S	0	2,6	150	9,8,8,8	300	33	29
4.00	4.00	SPT15	52	S	0	4,6	150	6,6,10,14	300	36	31
6.00	6.00	SPT15	52	S	0	4,5	150	4,6,7,7	300	24	21
8.00	8.00	SPT15	52	S	0	3,4	150	4,5,5,7	300	21	18
10.00	10.00	SPT15	52	S	0	3,4	150	5,5,6,7	300	23	20
12.00	12.00	SPT15	52	S	0	2,2	150	4,4,3,3	300	14	12
14.00	14.00	SPT15	52	S	0	6,10	150	10,10,12,13	300	45	39
16.00	16.00	SPT15	52	S	0	3,6	150	8,9,10,12	300	39	34
18.00	18.00	SPT15	52	S	0	5,8	150	8,8,9,10	300	35	30
20.00	20.00	SPT15	52	S	0	6,7	150	9,11,13,13	300	46	40
22.00	22.00	SPT15	52	S	0	4,12	150	10,14,13,13	300	50	43
24.00	24.00	SPT15	52	S	0	4,8	150	14,15,15,6	290		
26.00	26.00	SPT15	52	S	0	2,3	150	4,10,6,9	300	29	25
28.00	28.00	SPT15	52	S	0	4,6	150	6,10,9,8	300	33	29
30.00	30.00	SPT15	52	S	0	4,5	150	6,8,9,8	300	31	27

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'
- N60 calculated in accordance with BS EN ISO 22476-3:2005

E.2 Equipment Calibration Records

SPT Hammer Energy Test Report (SPT15)

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD
AINLEYS INDUSTRIAL ESTATE
ELLAND
WEST YORKSHIRE
HX5 9JP

SPT Hammer Ref:	SPT15
Test Date:	30/04/2019
Report Date:	01/05/2019
File Name:	SPT15.spt
Test Operator:	CM

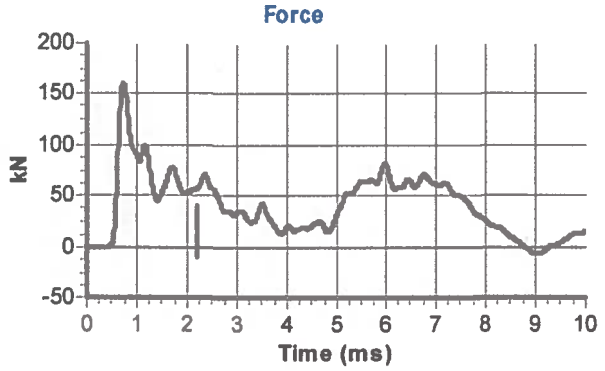
Instrumented Rod Data

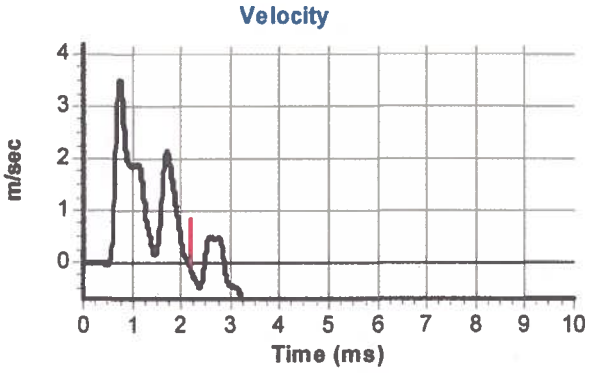
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.5
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	7080
Accelerometer No.2:	11609

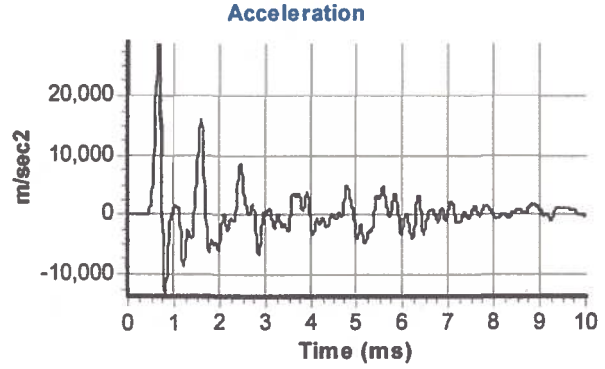
SPT Hammer Information

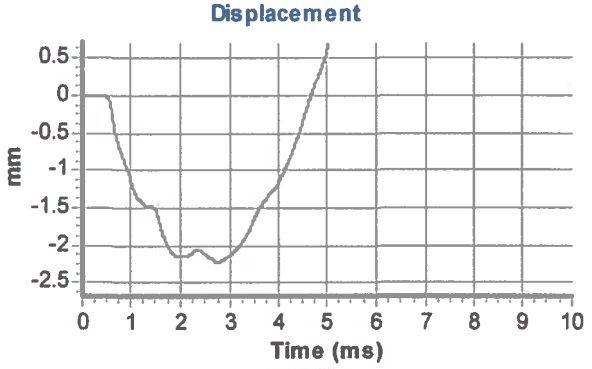
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	10.0

Comments / Location









Calculations

Area of Rod A (mm2):	970
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	247

Energy Ratio E_r (%): **52**

Signed: S. HOWARTH

Title: FITTER

The recommended calibration interval is 12 months

SPTMAN ver.1.93 All rights reserved, Testconsult ©2010

Appendix F

Geophysical Records

Appendix F Contents

F.1 Wireline Geophysical Logging
F.1.1 Datasheets and Guidance Notes
F.1.2 Wireline Geophysical Records
F.2 Check-Shot Survey
F.2.1 Datasheets and Guidance Notes
F.2.2 Checkshot Records

F.1 Wireline Geophysical Logging

F.1.1 Datasheets and Guidance Notes

3-Arm Caliper (CAL3)

Natural Gamma Ray (NGR)

Probes – PS Logger (Robertson GEO)

Acoustic Borehole Imager / Magnetic Borehole Deviation / Natural Gamma Ray (ABI – MDEV – NGR)

Wireline Geophysical Logging Methods (Table F.1)

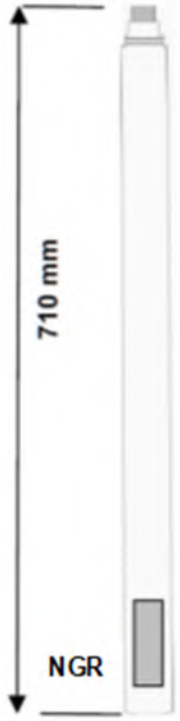
Wireline Geophysical Logging Parameters (Table F.2)

Wireline Geophysical Data Processing (Table F.3)

Optical (OBI) and Acoustic (ABI) Borehole Imager Discontinuity Classification (Table F.4)

CAL3		3-Arm Caliper
Logged parameters		Average borehole diameter [mm]
Tool parameters	diameter	43 mm
	length	1.37 m
	weight	8.5 kg
	max. p / max. T	200 bar / 70°C
Measurement range	bh diameter	50 - 600 mm
	CAL3	50 - 600 mm
Lateral investigation depth	CAL3	n.a.
Vertical resolution	CAL3	0.02 m
Accuracy	CAL3	±5.0 mm with small arms
Mode of operation		Continuous
Vertical sampling rate		0.05 m
Logging direction	CAL3	Upward
Logging speed		4.0 m/min
Tool position in borehole		Not critical
QA/QC	CAL3	At each borehole
Other		The 3 caliper arms are 120° apart from each other and mechanically connected, the tool provides one average caliper curve

NGR		Natural Gamma Ray
Logged parameters		Natural Gamma Ray [API]
Tool parameters	diameter	43 mm
	length	0.71 m
	weight	3.5 kg
	max. p / max. T	200 bar / 80° C
Measurement range	bh diameter	65 - 600 mm
	NGR	0 - 2000 API
Lateral investigation depth		approx. 0.5 m
Vertical resolution		approx. 0.2 m
Accuracy		±5 %
Mode of operation		Continuous
Vertical sampling rate		0.05 m
Logging direction	preferred	Upward
	alternative	Downward
Logging speed		4.0 m/min
Tool position in borehole		side wall
QA/QC		Calibration before mobilization to site
Other		



PROBES

PS LOGGER



PS Logger Probe

The PS Logger probe is a low-frequency acoustic sonde designed to measure compressional and shear-wave velocities in soils and soft rock formations.

It operates using indirect excitation rather than mode conversion as in a conventional sonic. It is capable of acquiring high resolution P and S wave data in borehole depths of up to 600m in water.

Principle of Measurement:

The PS Logger probe contains a unique design of powerful hammer source and two receivers, separated by acoustic damping tubes. To acquire data, the probe is stopped at the required depth and the source is fired under surface command. Firing causes a solenoid-operated shuttle aligned across the borehole axis to strike plates on opposite sides of the probe in turn, setting up a pressure doublet in the surrounding fluid. The resultant fluid motion produces a tube wave at the borehole wall with velocity close to the shear velocity of the formation together with a compressional wave.

As the waves propagate parallel to the borehole axis, they set up corresponding fluid movements that are detected by the two neutral buoyancy 3D hydrophone receivers and geophones, allowing the wave velocity to be determined.

The facility to stack multiple shots and filter the data as in normal seismic data acquisition is included in the operating software.

SPECIFICATION:

Features

- High energy shear-wave source has typically 20x power of conventional sonic probes
- Low-frequency measurement, more representative of engineering situations
- Stacking of multiple shots
- Probe separates for shipping
- Real-time wavelet (wiggle) display
- Compatible with Robertson Geo Micrologger2

Measurements

- Formation compressional wave velocity
- Formation shear-wave velocity

Applications

- Site Investigation - foundation studies, windfarms, offshore structures, dam safety
- Physical properties of soil/rock - shear modulus, bulk modulus, compressibility and Poission's ratio
- Earthquake engineering - characterization of strong motion sites
- Velocity control for seismic reflection surveys
- Engineering

Operating Conditions

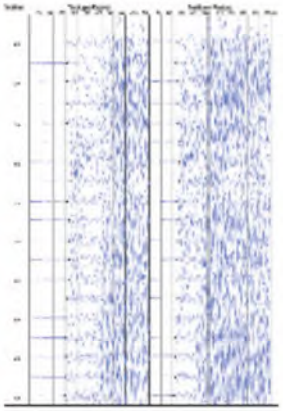
Borehole type:	open-hole, water-filled
Recommended Logging Speed:	Static measurements

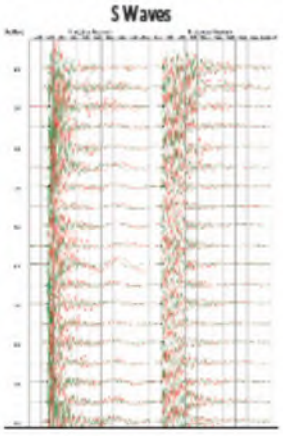
Specifications

Diameter:	50mm
Assembled length:	6.07m - 7.07m (1 or 2m filter)
Shipping case length:	1.45m (4.75ft) supplied in two transport cases
Assembled weight:	26.5kg - 28kg (1 or 2m filter)
Max. temperature:	70°C
Max. pressure:	6.5MPa
Transducer type:	solenoid and hammer
Receiver type:	3D hydrophones (p), geophones (s)
Receiver spacing:	1000mm (3.28ft)
Waveform acquisition period:	5.12mS to 409.6mS
Sampling:	2.5µs minimum
Down-hole gain:	0db to 42db (surface control)

Part Numbers

1002244	PS Logger probe in carrying case





Examples of logging data

Scan the QR code to go directly to www.robertson-geo.com

1/1

ABI - MDEV - NGR		Acoustic Borehole Imager Magnetic Borehole Deviation Natural Gamma Ray
Logged parameters		Amplitude of acoustic signal [1] Travel time of acoustic signal [ms] Borehole inclination (INC) [° from vertical] Borehole direction (DIR) [° from Magnetic North] Natural Gamma Ray [API]
Tool parameters	diameter	40 mm 58 mm with centralizers / 65 mm with sinker bar
	length	2.12 m
	weight	8.7 kg
	max. p / max. T	200 bar / 70° C
Measurement range	bh diameter	76 - 300 mm
	INC	0 - 180° from vertical
	DIR	0 - 360°
	NGR	0 - 2000 API
Horizontal resolution	ABI	max. 360 pixels / 360°
Lateral investigation depth	ABI	A few mm
	NGR	approx. 0.5 m
Vertical resolution	ABI	A few mm
	NGR	approx. 0.1m
Accuracy	CALABI	<0.1 mm
	INC	±0.5°
	DIR	±1.2°
	NGR	±5%
Mode of operation		Continuous
Vertical sampling rate		1.5 - 2.5 mm (automatic setting depending on logging speed and resolution)
Logging direction	preferred	Upward
	alternative	Downward
Logging speed		1.5 - 3.0 m/min (depends on lateral resolution)
Tool position in borehole		Centralized with bow springs
QA/QC	ABI	No calibration required but regular check in casings of known diameter
	MDEV	Check before mobilization, calibration only at manufacturer
	NGR	Calibration before mobilization to site
Other		Acoustic head rotation 10 rev. per second Transmitter frequency 1.2 MHz

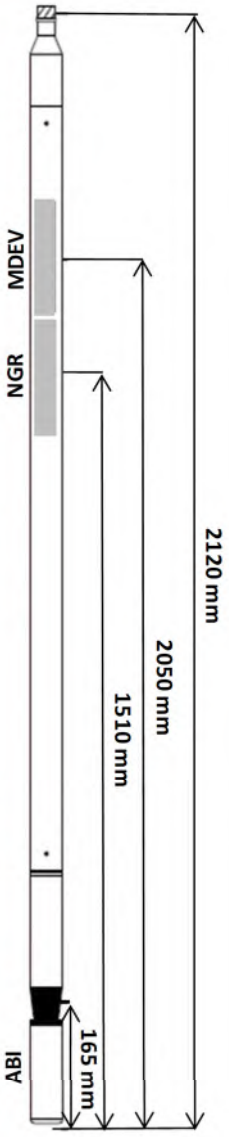


Table F.1: Wireline Geophysical Logging Methods

Logging Method	Descriptions
Acoustic Borehole Imager (ABI)	The core of the ABI is a 1.2 MHz ultrasonic transmitter-receiver head which rotates at about 10 rps. Travelling up or down hole, the borehole wall is scanned in a spiral which is put together to an unrolled and oriented image. The tool records both amplitude and travel time of the ultrasonic signal reflected by the borehole wall. Contrasts in the amplitude image are the result of differences in acoustic Impedance between the borehole fluid (usually drilling mud or water) and the different formations (borehole wall). The travel time shows differences depending on borehole fluid velocity (usually constant) and borehole diameter. The ABI tool only works in fluid filled boreholes, but it can also be deployed in drilling mud.
Natural Gamma (NGR)	The NGR is a passive method that reads the integral gamma radiation of the formation in an energy window of 0.3 MeV to 3.0 MeV. It is registered with a Sodium-Iodide crystal and a photo-multiplier, readings are converted from counts per second (cps) to calibrated American Petroleum Institute (API) units. The sources of natural gamma radiation are ^{40}K, ^{232}Th and ^{238}U. Clay shows relatively high gamma readings resulting from ^{40}K in the clay-minerals compared to sand and gravel. Therefore, in sediments aquifers can be distinguished from aquicludes. Igneous and crystalline rocks with a high content of K-Feldspar (granite, gneiss, etc.) may have high NGR-values. NGR can be measured in open or cased holes, casing attenuates the curve, but the dynamic of curve still gives an indication of lithology. Therefore, the method can be used for lithological correlation between new boreholes and existing wells.
Three-Arm Caliper (CAL3)	The CAL3 consists of three arms connected to each other 120° apart. It provides one average curve of the borehole diameter.
P&S Wave Suspension Logger (PSL)	The PSL has a solenoid hammer source at the bottom of the tool which generates a p-wave and a flexural wave within the borehole. The low frequency component of it can be used to estimate shear wave velocity even in soils and slow formations (i.e. where shear velocity is lower than borehole fluid velocity), where conventional sonic logging is not capable. Borehole fluid velocity is typically 1450 m/s. As flexural wave is a type of tube wave, the method requires open hole. Additionally, in zones of high borehole rugosity (e.g. the borehole is not a tube anymore) flexural wave is disrupted, shear wave can velocity cannot be determined. Acoustic velocities in combination with formation density can also be used to calculate elastic rock parameters (Young's Modulus, Shear Modulus, Bulk Modulus).

Table F.2: Wireline Geophysical Logging Parameters

Logging Method	Tool Mnemonic	Open Hole (OH) / Cased Hole (CH)	Parameter	Unit	Abbreviation used
Acoustic Borehole Imager	ABI	OH	Borehole Tilt	degree	Tilt
			Borehole Azimuth	degree	Azimuth
			Easting	m	Easting
			Northing	m	Northing
			Total Vertical Depth	m	TVD
			ABI Amplitude	degree	Amplitude
			ABI Travel Time	µs	Travel Time
			Discontinuity picking	degree	Structure Log
			Corrected discontinuity data (dip and azimuth of structures corrected by borehole tilt and azimuth) – True Structure Log	degree	Tadpole Log
Natural Gamma	NGR	OH and CH	Natural Gamma	API	Natural Gamma / GR
Three-Arm Caliper	CAL3	OH	Caliper	mm	Caliper
P&S-Wave Suspension Logger	PSL	OH	P-wave Velocity	m/s	Vp_PSL
			S-wave Velocity	m/s	Vs_PSL
			Poisson's Ratio	-	Poisson's Ratio / Poisson's

Table F.3: Wireline Geophysical Data Processing and Presentation

Data Type (per logging method)	Data Processing Procedures	Data Presentation†
Acoustic Borehole Imager (ABI)*	1. Interpolation of bad traces if any were detected; 2. Depth correction and merging of separately measured sections; 3. Processing of the image log data (centralisation and normalisation) if necessary; 4. Check for consistency with other log types (e.g. CAL3); 5. Manual discontinuity picking and classification; 6. Correcting picked structures for borehole deviation; 7. Data presentation.	Acoustic televiewer logs‡; discontinuity tables, polar plots# and rose plots^
Natural Gamma (NGR)	1. Application of five points moving average filter (depending on sampling rate); 2. Depth correction and merging of separately measured sections; 3. Data presentation.	Natural gamma logs
Three-Arm Caliper (CAL3)	1. Interpolation of bad data values if necessary; 2. Depth correction and merging of separately measured sections; 3. Check for consistency with imager data (if available); 4. Data presentation.	Caliper logs
P&S Wave Suspension Logger (PSL)	1. Manual picking of P-wave arrival on near and far receiver wavetrain; 2. Manual picking of S-Wave arrivals on near and far receiver wavetrain; 3. Velocity calculation, data reduction, averaging for each depth point; 4. Check for data quality and consistency; 5. Calculation of Poisson's Ratios using known density data if required; calculation of other elastic rock parameters (Young's Modulus, Shear Modulus and Bulk Modulus) if required; 6. Data presentation	P&S wave suspension logs; velocity tables

Notes

* = Manual discontinuity picking and classification using Optical (OBI) and Acoustic (ABI) Borehole Imager Discontinuity Classification (Table F.4) below.

† = NGR, CAL3 and PSL data are presented as composite plots (Natural Gamma, Caliper and P&S Wave Suspension Logs) on 1:100 scale, as appropriate.

‡ = Processed images and picked discontinuities are presented on a 1:20 depth scale plot, as appropriate, together with verticality data. All image logs are aligned to North as 0°, East as 90°, South as 180° and West as 270°. Discontinuities corrected to borehole deviation are presented as a tadpole plot. Position of tadpole head on the 0° to 90° scale marks the dip angle, tail shows dip direction. Colour of tadpole head represents discontinuity category. Azimuth data of discontinuities within 1.5 m of the casing should be handled with caution due to steel affecting the magnetometers of the tool.

= Directional statistics of borehole deviation corrected discontinuities are presented on a Polar plot for the whole borehole. Polar plot contains the southern (lower) hemisphere, equal area (Schmidt) projection of the poles of the discontinuity planes. Colour of the poles represents discontinuity classification category and circular grid shows the dip angle of the plane. As poles are perpendicular to planes, radial position of the poles shows the opposite to the discontinuity dip direction. A counting circle comprising one percent of the total area is used to make density estimates at the nodes of a

Data Type (per logging method)	Data Processing Procedures	Data Presentation†
	regular grid. The grid is contoured in units of percent per one percent area. Contours represent standard deviations away from the expected density of a random sample drawn from a standard distribution. ^ = Distribution of Azimuth directions of borehole deviation corrected discontinuities are also shown independently on a Rose Plot for the whole borehole.	

Table F.4: Optical (OBI) and Acoustic (ABI) Borehole Imager Discontinuity Classification

Colour	Structure	Descriptions
Dark Blue	Major Open Fracture / Joint	Major fractures are identified by a clearly visible low amplitude sinus in the amplitude image and by a corresponding high travel time pattern (compared to the surrounding) in the travel time image. The sinus covers the whole borehole circumference with a significant more or less constant vertical aperture. In the caliper log (if measured/calculated) this fractures additionally produce a caliper increase.
Yellow	Minor Fracture / Joint – partially open	This type of fractures is visible in amplitude and travel time image and (if measured/calculated) in caliper logs similar to major ones. Different to major open features the sinuses do not offer the same significant vertical aperture over the whole borehole circumference but show areas with higher amplitude/lower travel time respectively.
Light Blue	Fracture / Joint – no further evaluable	These fractures are clearly visible on the amplitude image (low amplitude compared to the surrounding) without producing any significant pattern on the travel time log or the caliper log (if measured/calculated).
Light Green	Bedding / Banding / Foliation / Lamina	Usually visible on core images or optical images if available. Without core images this classification is used for structures that show similar dip direction and dip on a small vertical scale (distances between the structures of millimetres to several centimetres).
Grey	Filled Fracture / Joint	Infilled features are identified as sinuses with a significantly different internal amplitude response than the surrounding. The amplitude response is usually higher than in open features if filled with 'hard' materials (e.g. calcite) and lower if filled with e.g. clay. Independent from the fracture filling and differently to open fractures these features are not visible in travel time plot or caliper logs (if measured/calculated).
Magenta	Unclassified	Used for structures that cover only parts of the circumference, for sinuses with parts that show small vertical or horizontal displacements between each other and for structures that cannot clearly be differentiated from artificial structures caused by the drilling process.
Red	Lithological Boundary	Usually interpreted in combination with lithological logs or core images. If not available clear changes in amplitude image characteristics are used to interpret this type of structures. Additional measurements (resistivity, natural gamma) also provide indications for lithological changes.

F.1.2 Wireline Geophysical Records

F.1.2.1 Wireline Geophysical Logging Summary

Table F.5: Wireline Geophysical Logging Summary

Borehole Reference	Logging Date	Logging Type / Depth Interval [m BSL]				Remarks
		CAL3	NGR	ABI	PSL	
Intake 1						
IT1_SPT_01	25/07/2019-26/07/2019	55.20 – 21.86	56.82 – 0.00	-	50.00 – 29.50, 28.50 – 23.00	55 PSL stations used.
IT1_SPT_02	23/07/2019	54.68 – 24.88	54.57 – 0.00	-	49.00 – 33.50, 30.00 – 27.50	40 PSL stations used.
IT1_SPT_03	01/06/2019	52.30 – 22.56	54.58 – 0.00	-	50.50 – 23.50	55 PSL stations used.
IT1_SPT_04	19/07/2019-21/07/2019	107.94 – 9.38	109.92 – 0.00	21.50 – 60.33	10.00 - 99.50	178 PSL stations used.
IT1_SPT_05	16/07/2019-17/07/2019	55.10 – 18.79	55.62 – 0.00	-	51.00 – 20.00	63 PSL stations used.
IT1_SPT_06	06/07/2019-07/06/2019	54.40 – 8.28	54.82 – 0.00	-	50.00 – 12.50 (10.50 GV)	67 (and 4 GV) PSL stations used.
IT1_SPT_07	04/06/2019	52.19 – 4.89	54.64 – 0.00	-	46.00 – 25.00, 20.50 – 6.50	72 PSL stations used.
Intake 2						
IT2_SPT_01	10/06/2019	54.45 – 16.89	54.41 – 0.00	-	50.50 – 37.00, 36.00 – 19.50	63 PSL stations used.
IT2_SPT_02	14/07/2019	54.56 – 37.39	54.39 – 0.00	-	50.50 – 38.50	25 PSL stations used.
IT2_SPT_03	08/07/2019	55.07 – 38.30	54.83 – 0.00	-	51.00 – 28.50	47 PSL stations used.
IT2_SPT_04	21/06/2019	54.60 – 26.39	54.82 – 0.00	-	49.00 – 28.50	42 PSL stations used.

Borehole Reference	Logging Date	Logging Type / Depth Interval [m BSL]				Remarks
		CAL3	NGR	ABI	PSL	
Outfall						
OT_SPT_01	13/06/2019	54.52 – 19.89	54.54 – 0.00	-	50.50 – 21.50	59 PSL stations used.
OT_SPT_02	16/06/2019	54.69 – 18.89	54.58 – 0.00	-	51.00 – 29.00	45 PSL stations used.
OT_SPT_03	11/07/2019-12/07/2019	109.52 – 70.89, 64.60 – 9.99	109.56 – 0.00	109.47 – 72.68, 63.13 – 24.69	60.50 – 29.50, 25.00 – 11.00	92 PSL stations used.
OT_SPT_04	05/07/2019-06/07/2019	54.77 – 25.88	54.56 – 0.00	-	50.50 – 27.50	47 PSL stations used.
OT_SPT_05	26/06/2019	53.80 – 30.00, 27.43 – 18.38	54.82 – 0.00	-	49.00 – 31.00, 23.00 – 19.50	45 PSL stations used.
OT_SPT_06	29/06/2019-30/06/2019	54.36 – 10.38	55.00 – 0.00	-	49.50 – 11.50	77 PSL stations used.
OT_RB_07	03/07/2019-04/07/2019	110.01 – 14.89	110.32 – 0.00	102.69 – 15.00	95.00 – 16.00	159 PSL stations used.

Notes
CAL3 = Three-arm caliper
NGR = Natural gamma
ABI = Acoustic Borehole imager
PSL = P&S-wave suspension logger

F.1.2.2 Wireline Geophysical Records

Acoustic Televiewer Log; Discontinuity Table, Polar Plot, Rose Plot;
Natural Gamma, Caliper and P&S-Wave Suspension Log; Velocity Table
(record types where applicable)
(referenced by position ID)

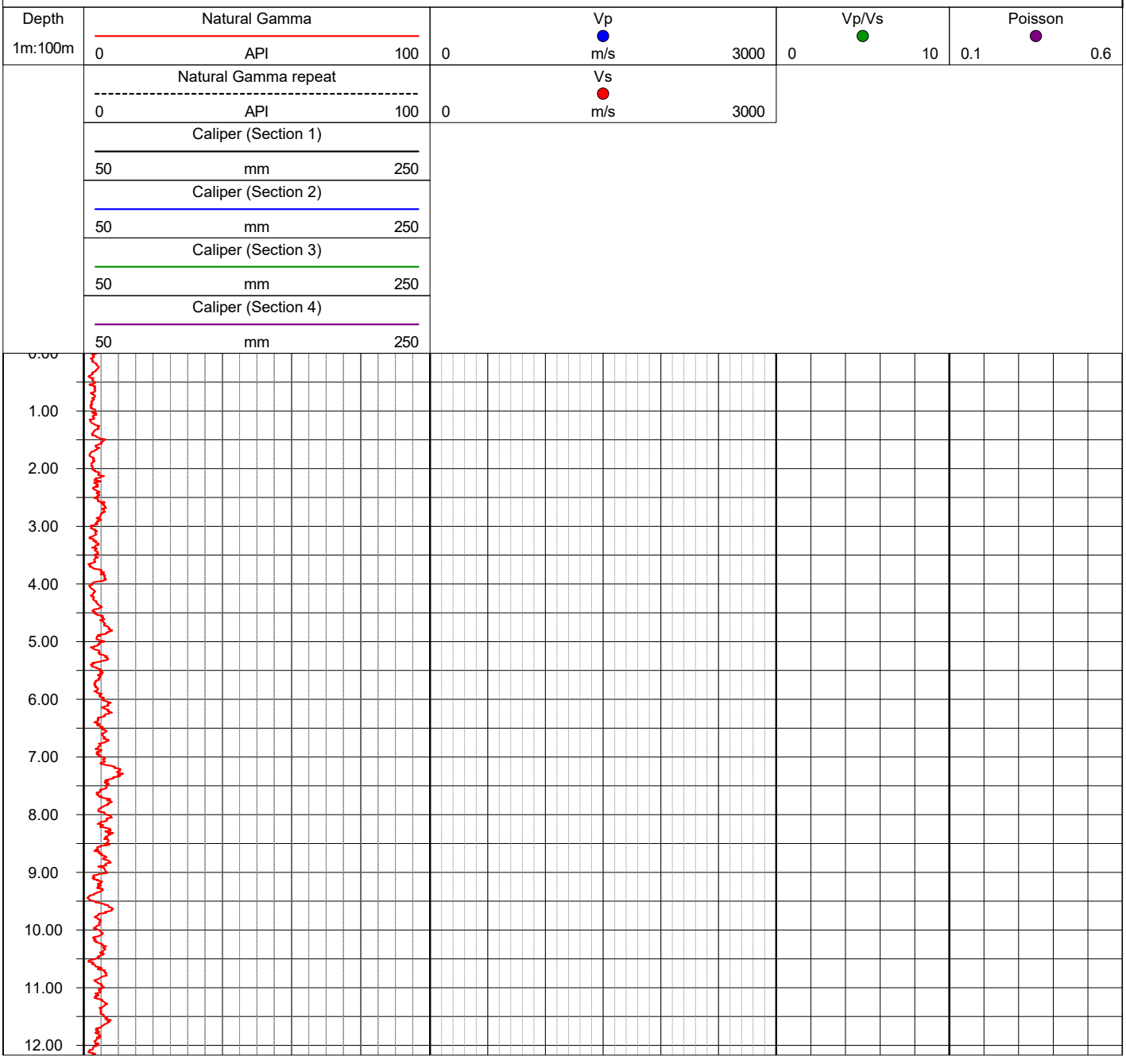
FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
	Borehole: IT1_SPT_01	Fugro Site Manager: Colin Mulvey, Callum Murphy	25-26/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 648137.28 N: 263831.71	Grid Reference: OSGB 1936	Elevation: -7.54 mOD
Borehole Depth (Drilling): 57.25 m		Recorded By: L. Pal, E. Cox	Processed By: L. Pal, E. Cox
Borehole Depth (Wireline): 56.82 m		Remarks:	
Logging Datum: mud level		Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections. There is a gap in P&S data from 29.50 m to 28.50 m due to borehole collapse between 3rd and 4th section. PS Logging above 23.00 m was aborted due to borehole collapse.	
Logged Interval: 0.00 m - 56.82 m			
Fluid Level: sea level			

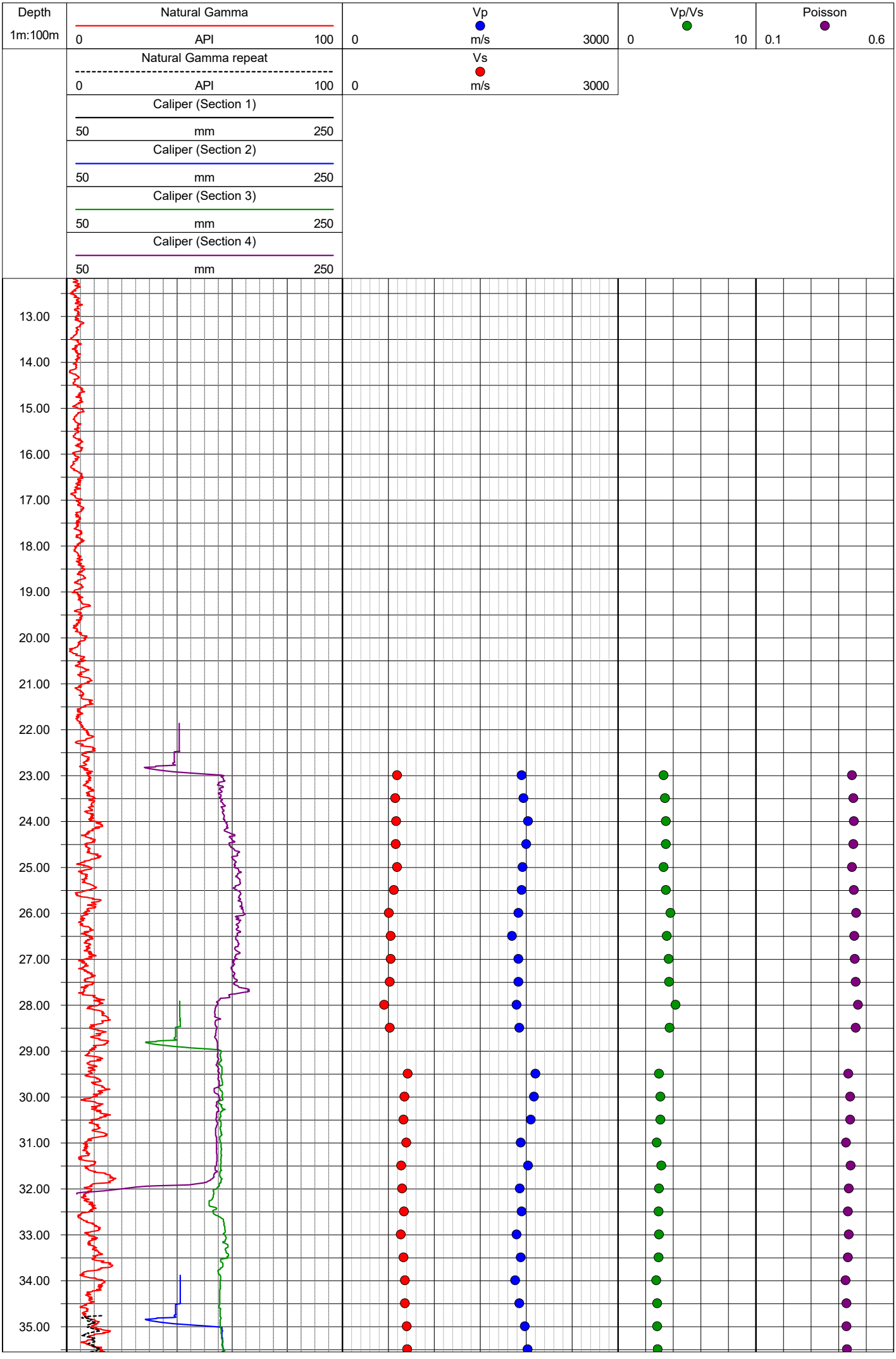
BOREHOLE RECORD (DRILLING)

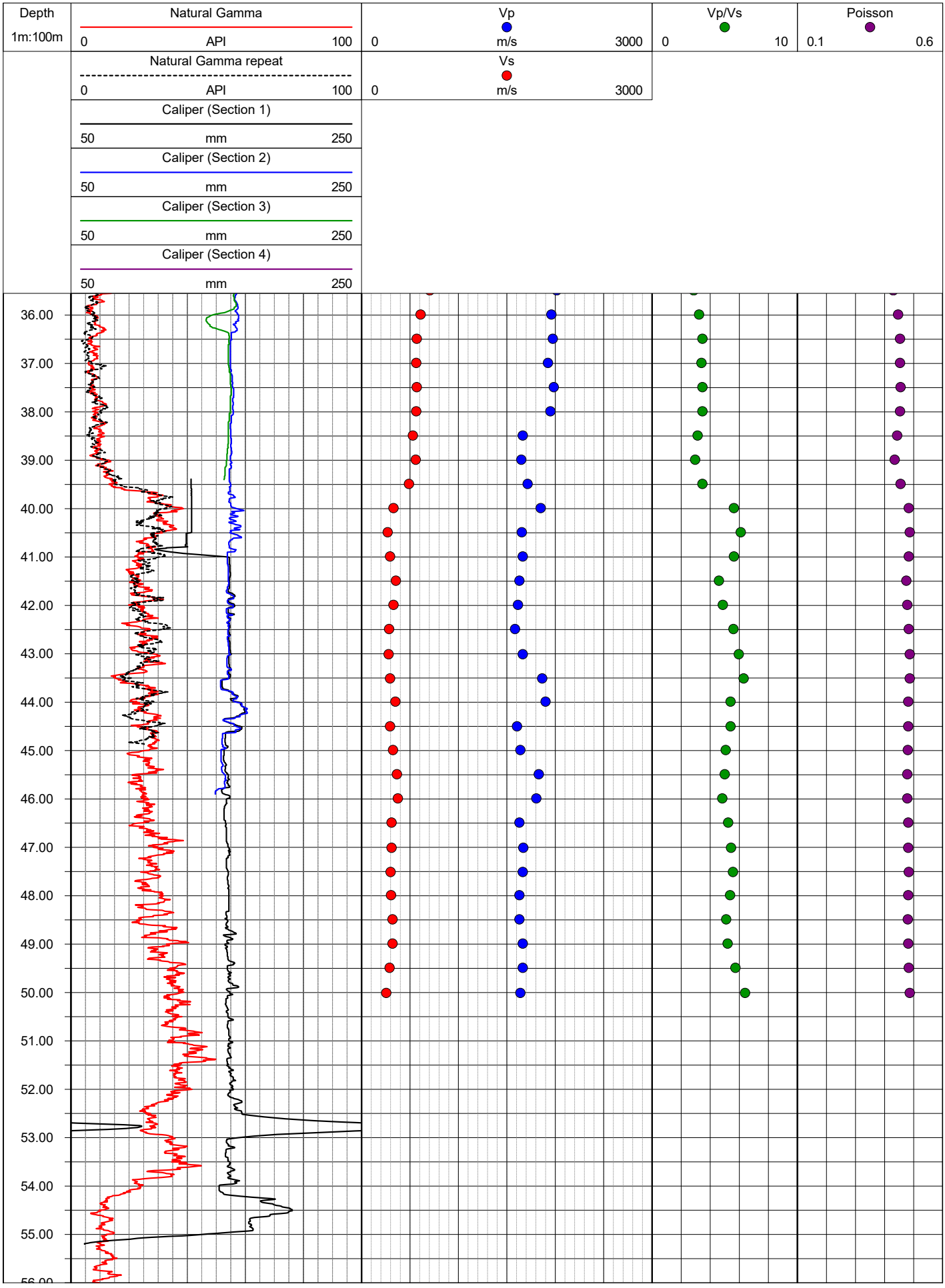
Bit Diameter:	From:	To:
146 mm	0.00 m	57.25 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-18.20 m	0.80 m
Steel	178 mm	-18.20 m	18.00 m
Steel (NG in casing)	146 mm	-19.00 m	57.25 m




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
36.00
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00

IT1_SPT_01 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
	Borehole: IT1_SPT_02	Fugro Site Manager: Julian North, Callum Murphy	23/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 648674.53 N: 263721.98	Grid Reference: OSGB 1936	Elevation: -10.02 mOD
Borehole Depth (Drilling): 55.20 m		Recorded By: L. Pal, E. Cox	Processed By: L. Pal, E. Cox
Borehole Depth (Wireline): 54.68 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 54.68 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 3 sections.There is a gap in P&S data from 30.00 m to 33.50 m as borehole is collapsed after 2nd section. Borehole is collapsed after the 3rd section several times as casing pulling back.	
Fluid Level: sea level			

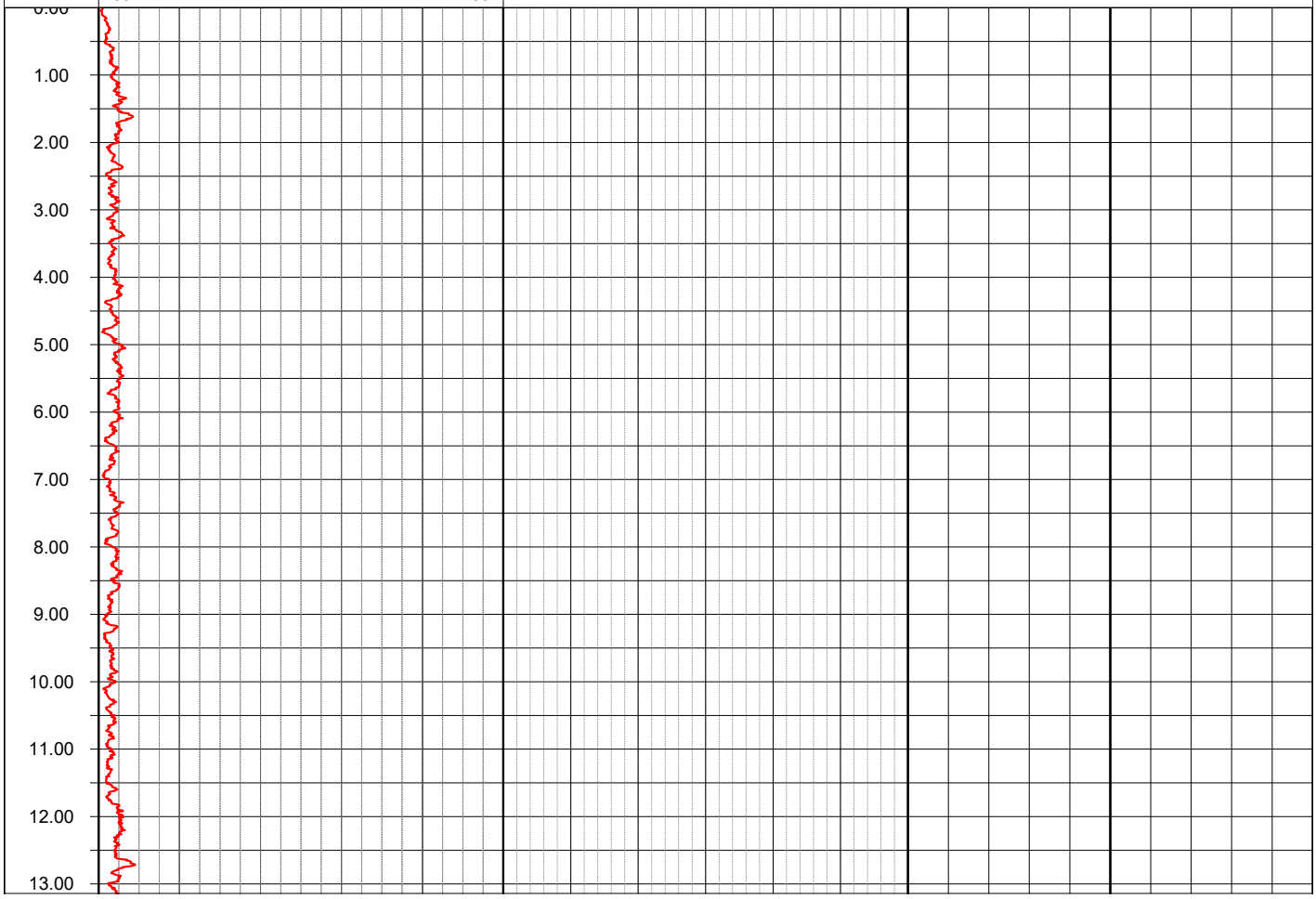
BOREHOLE RECORD (DRILLING)

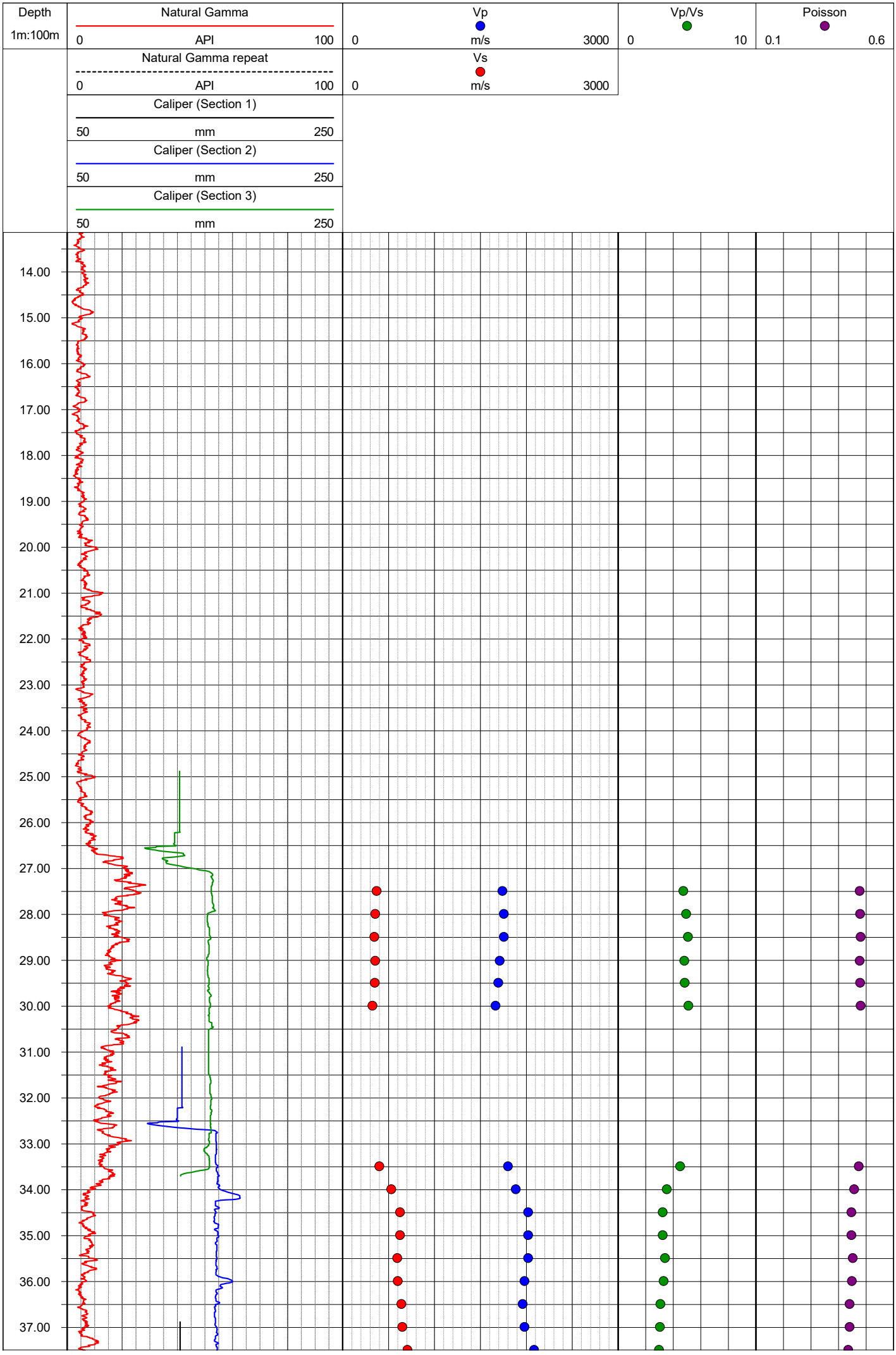
Bit Diameter:	From:	To:
146 mm	0.00 m	55.20 m

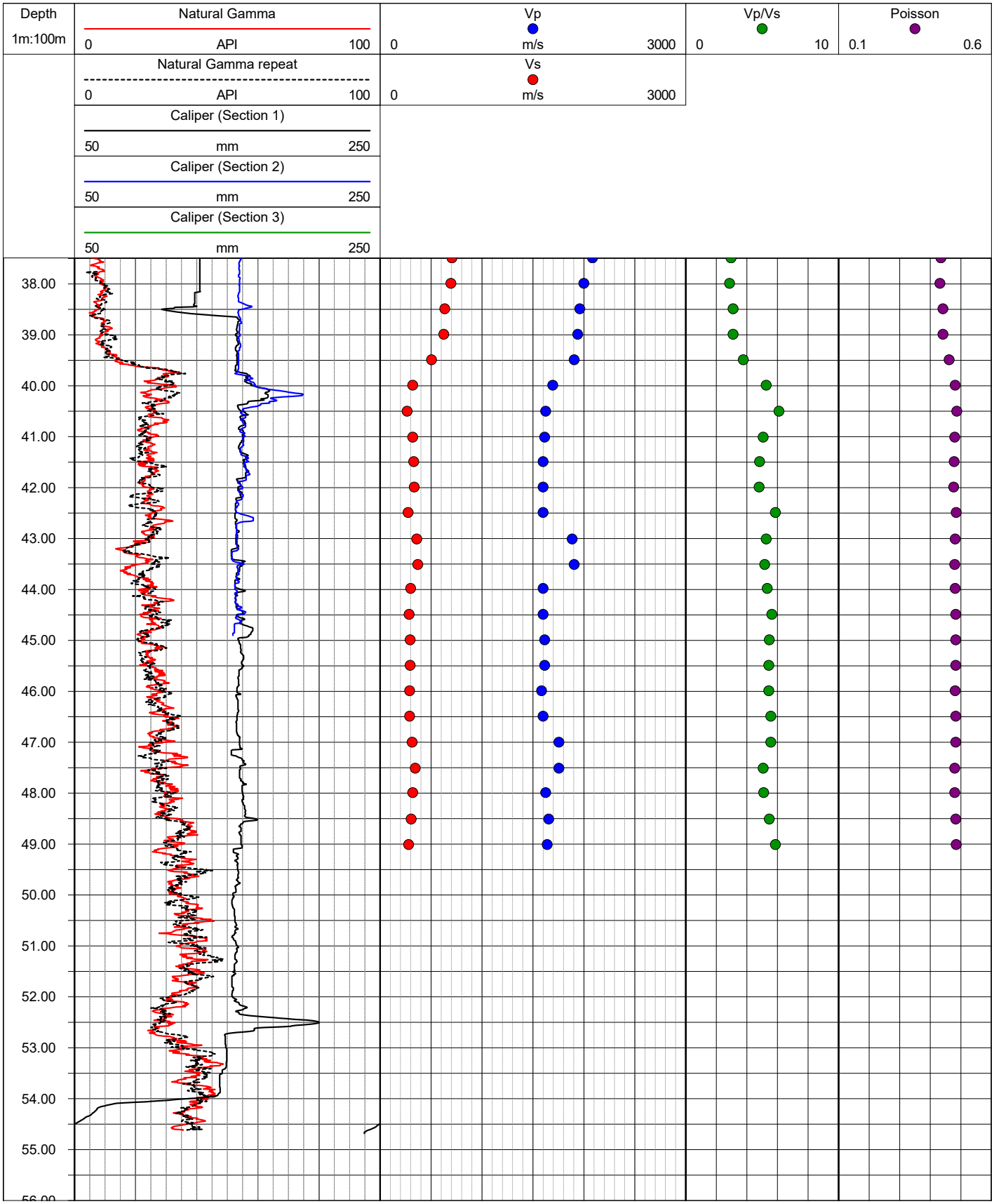
CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-20.50 m	1.70 m
Steel	178 mm	-20.60 m	20.00 m
Steel (NG in casing)	146 mm	-21.37 m	55.20 m

Depth 1m:100m	Natural Gamma 0 API 100	Natural Gamma repeat 0 API 100	Caliper (Section 1) 50 mm 250	Caliper (Section 2) 50 mm 250	Caliper (Section 3) 50 mm 250	Vp 0 m/s 3000	Vs 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00

IT1_SPT_02 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Thierry Denois	Logging Date:
	Borehole: IT1_SPT_03	Fugro Site Manager: Julian North, Colin Mulvey	01/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 649449.91 N: 263566.06	Grid Reference: OSGB 1936	Elevation: -7.64 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: L. Pal	Processed By: L. Pal
Borehole Depth (Wireline): 54.58 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 54.58 m		Natural Gamma was measured in casing.	
Fluid Level: sea level			

BOREHOLE RECORD (DRILLING)

Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-18.28 m	5.00 m
Steel	178 mm	-18.28 m	20.00 m
Steel (NG in casing)	146 mm	-18.28 m	55.00 m

Depth 1m:100m

Natural Gamma: 0 API 100

Natural Gamma repeat: 0 API 100

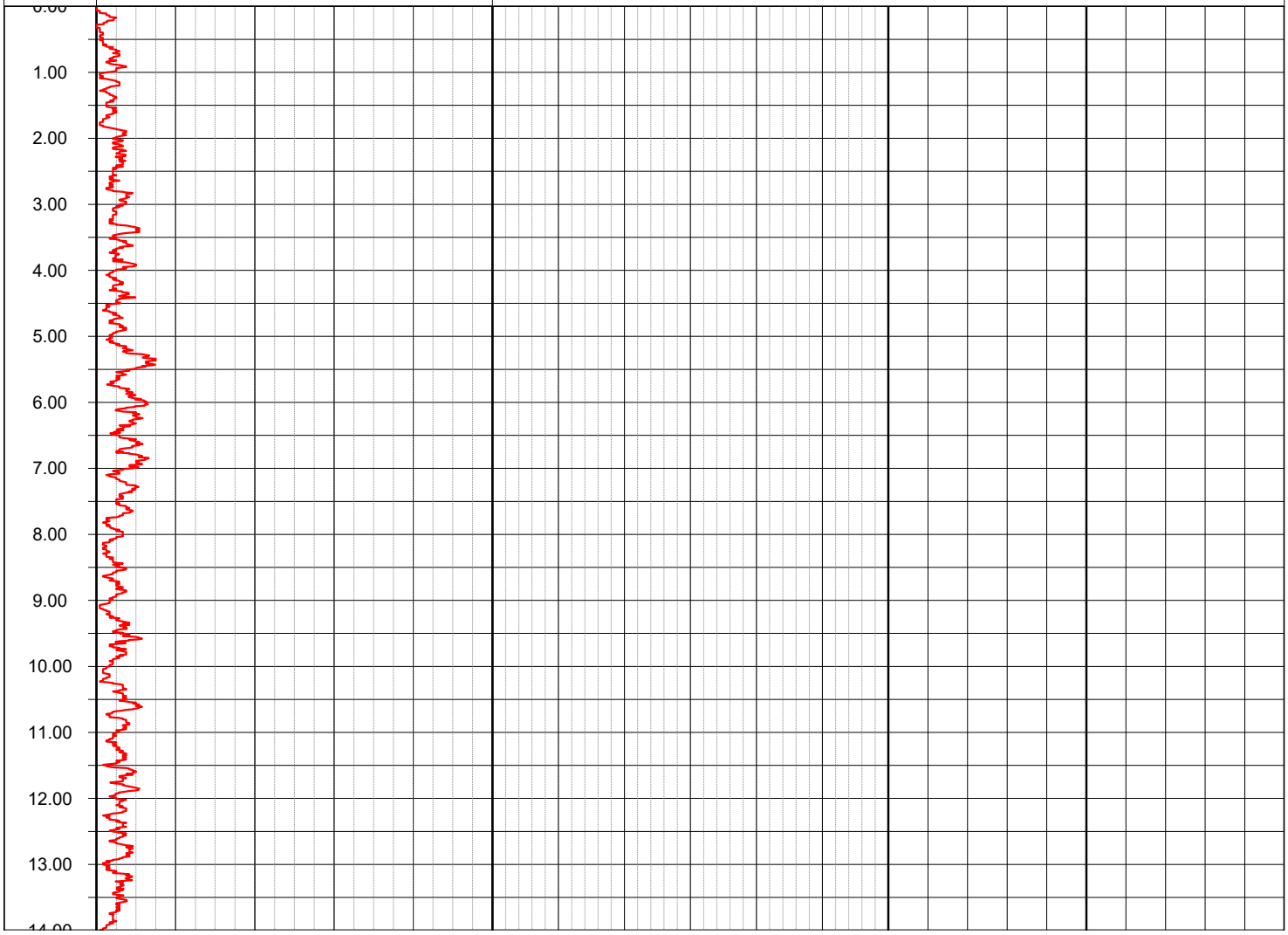
Caliper: 50 mm 250

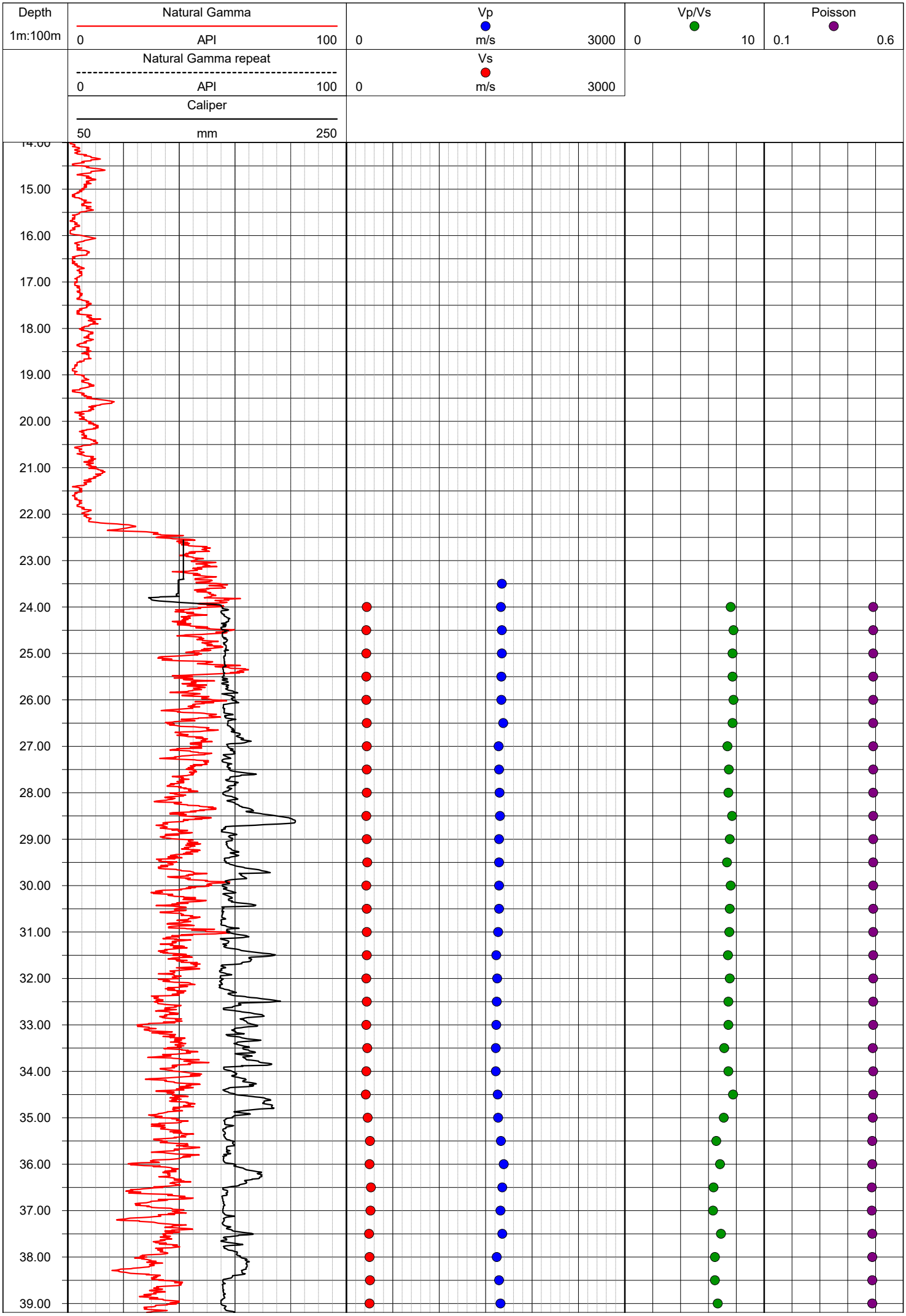
Vp: 0 m/s 3000

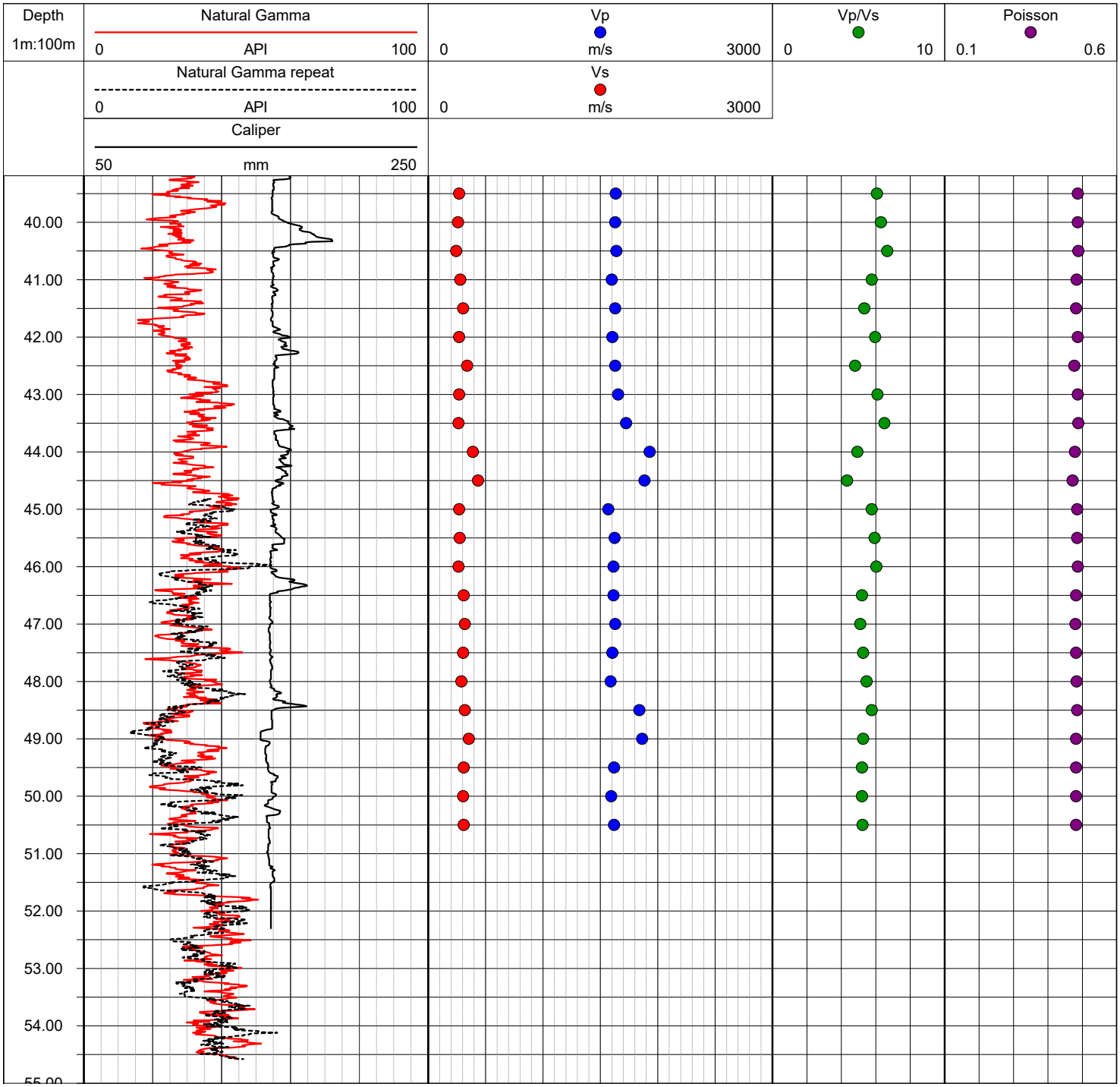
Vs: 0 m/s 3000

Vp/Vs: 0 10

Poisson: 0.1 0.6




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00
38.00
39.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

IT1_SPT_03 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

rr d

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Acoustic Televiewer Log**
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe / Logging Date:
	Borehole: IT1_SPT_04	Fugro Site Manager: Julian North, Callum Murphy / 19-21/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650005.10 N: 263453.25	Grid Reference: OSGB 1936 / Elevation: -6.05 mOD
Borehole Depth (Drilling): 110.40 m		Recorded By: L.Pal, E. Cox / Processed By: L.Pal, E. Cox
Borehole Depth (Wireline): 109.92 m		Remarks:
Logging Datum: mud level		
Logged Interval: 21.50 m - 60.33 m		ABI data is missing above 60.50 m due to borehole collapse.
Fluid Level: sea level		

Tadpole / Sine Wave

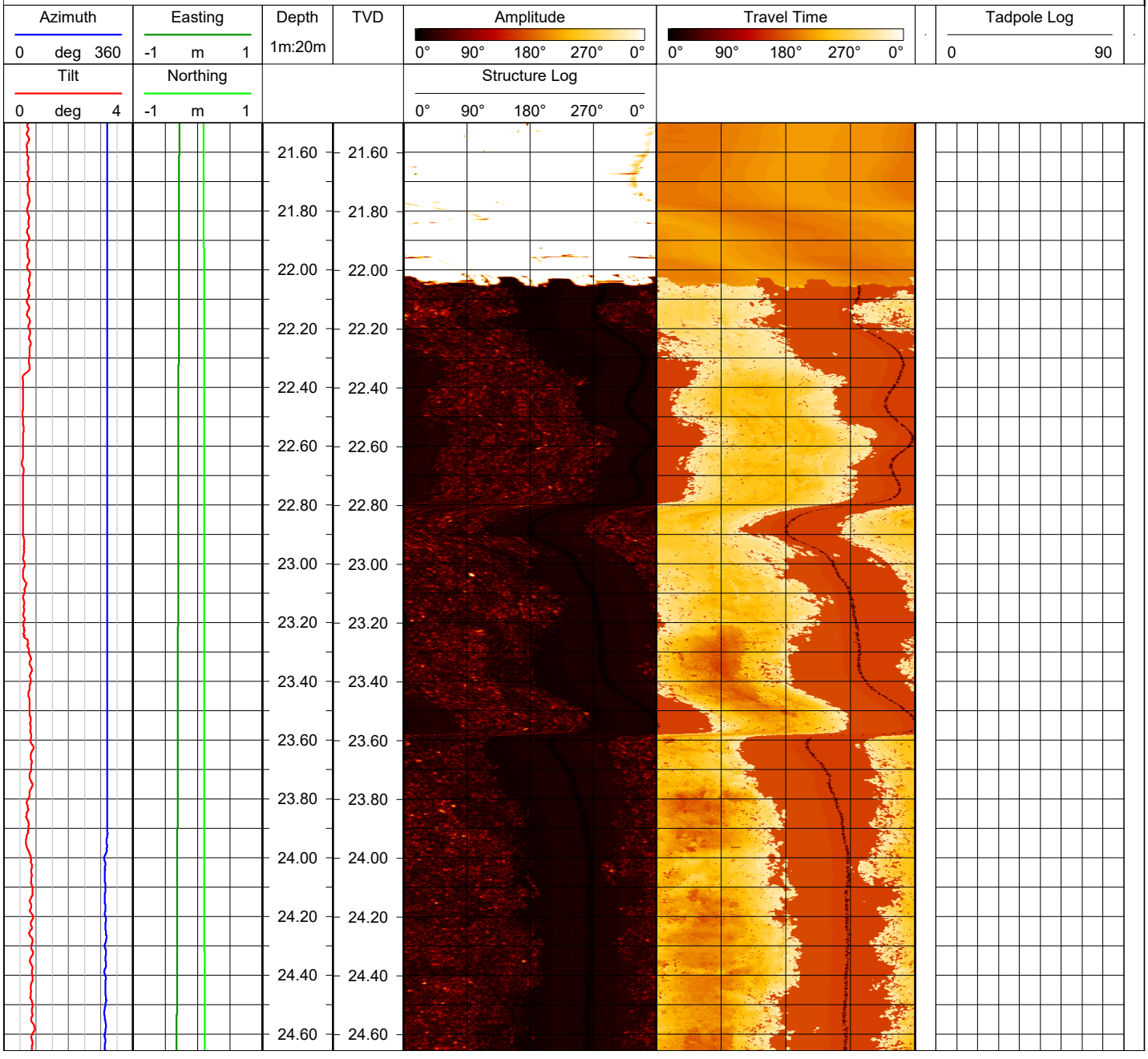
- Major Fracture / Joint - open
- Minor Fracture / Joint - probably open
- Fracture / Joint - not further evaluable
- Fracture / Joint - infilled
- Bedding / Banding / Foliation / Lamination
- Unclassified
- Lithological boundary

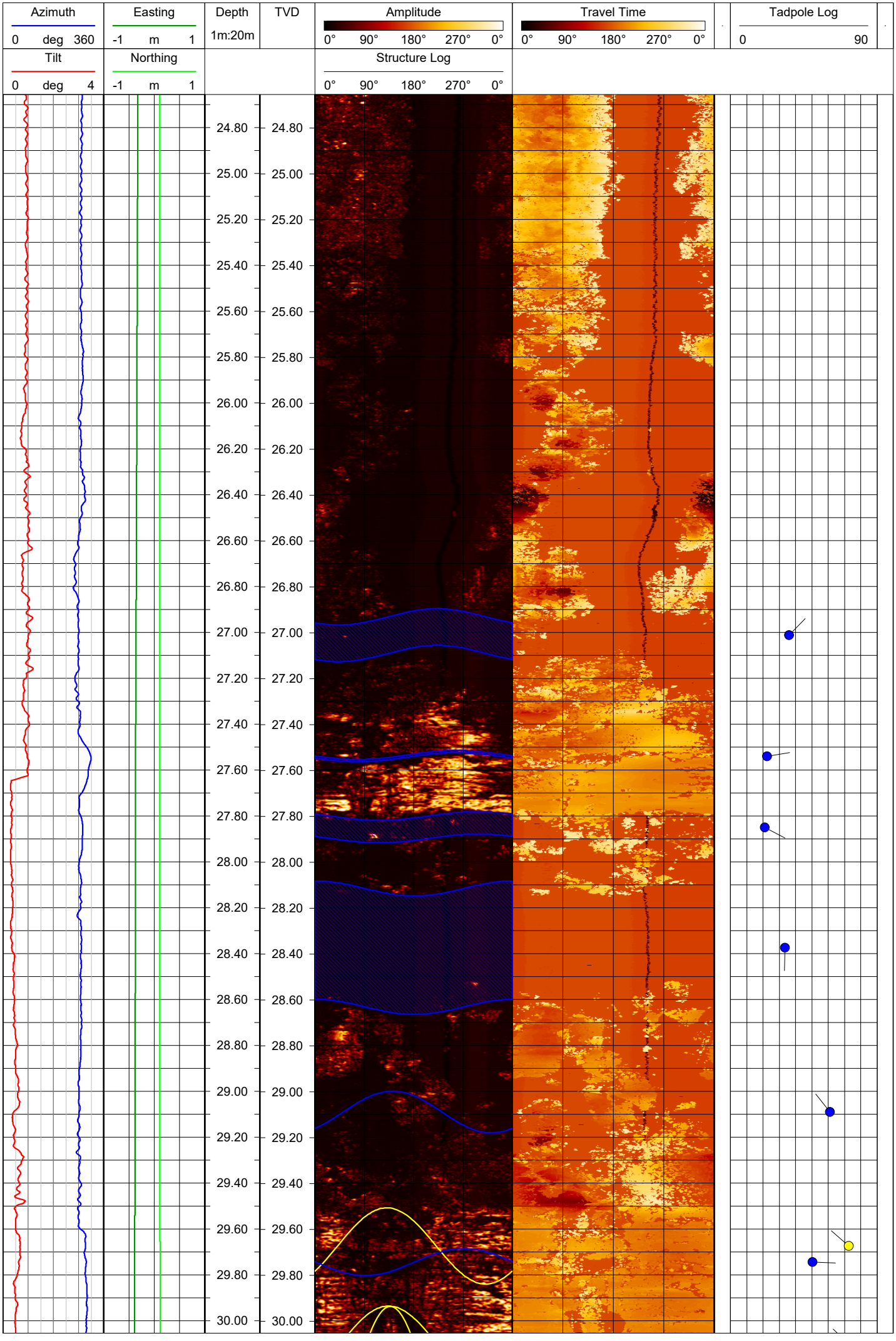
BOREHOLE RECORD (DRILLING)

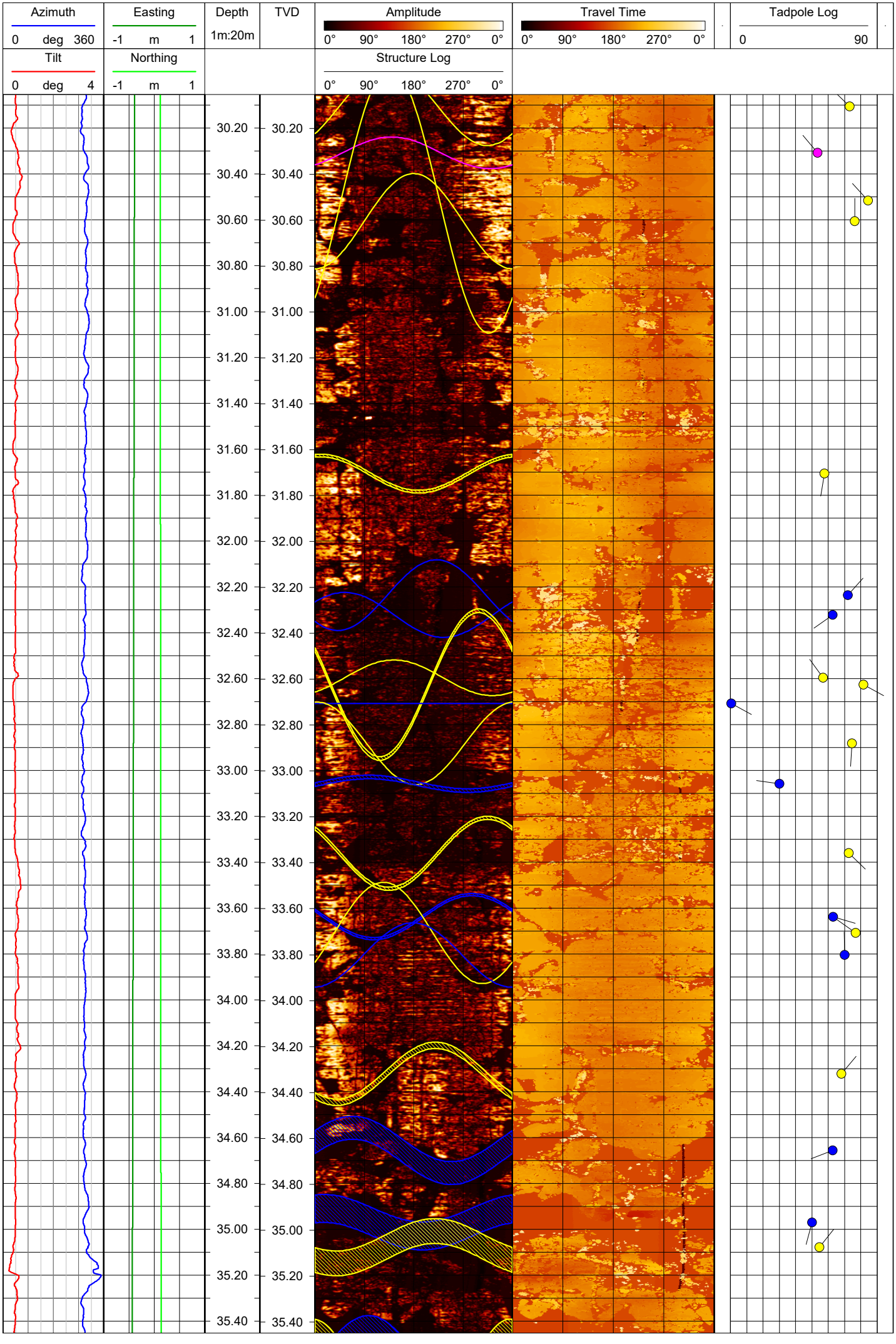
Bit Diameter:	From:	To:
146 mm	0.00 m	110.40 m

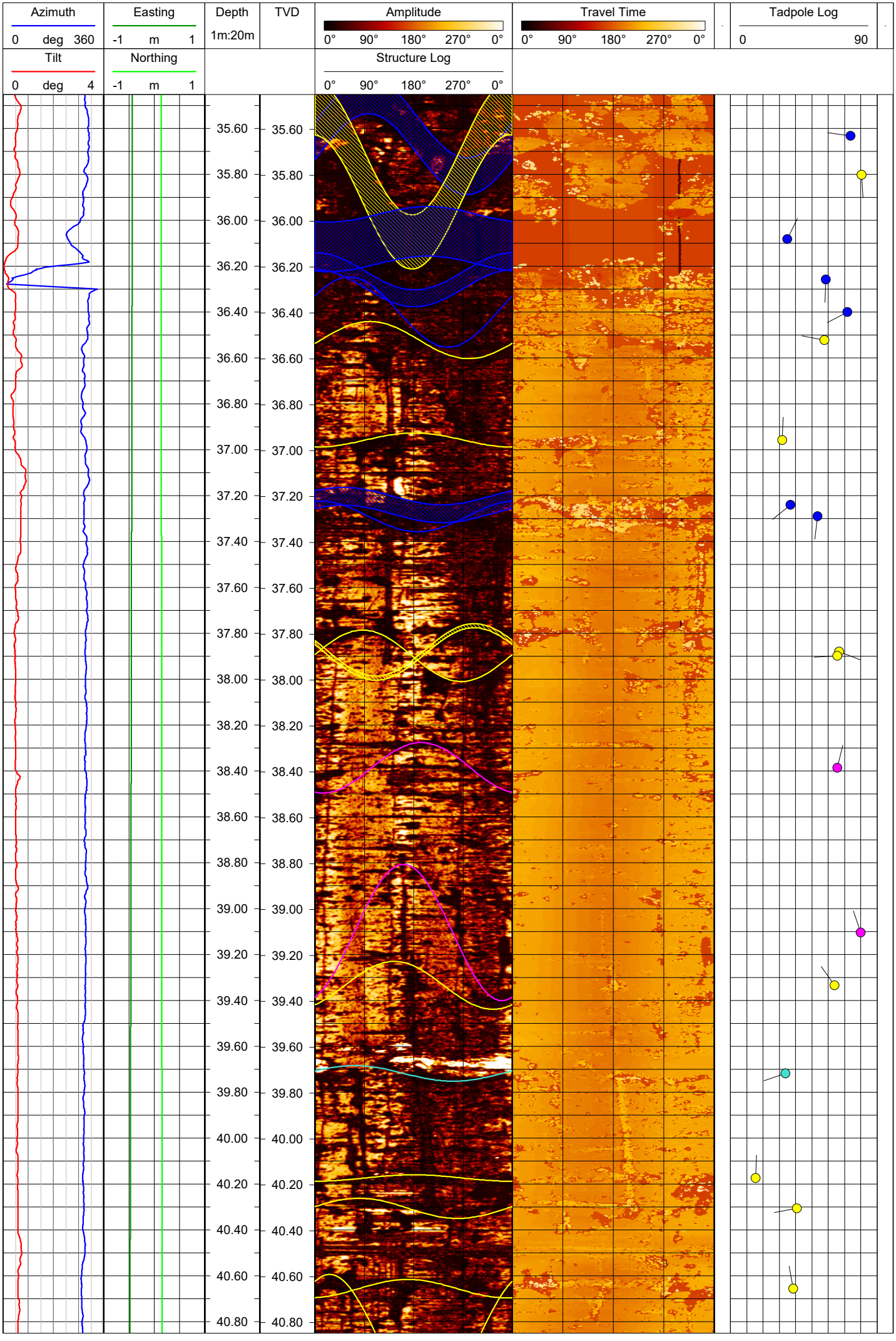
CASING RECORD (DRILLING)

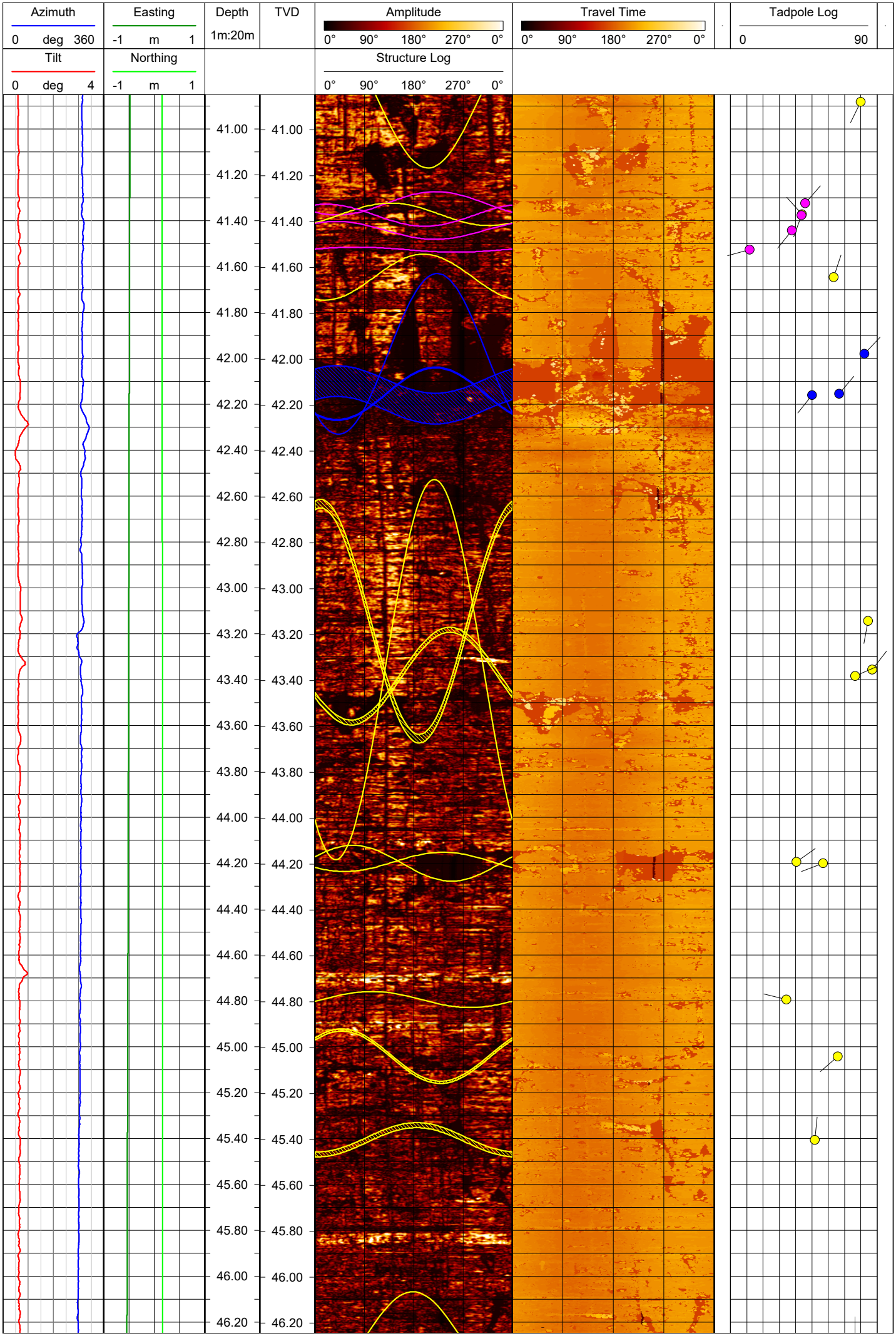
Type:	Size:	From:	To:
Steel	255 mm	-16.10 m	1.00 m
Steel	178 mm	-16.50 m	26.00 m
Steel (NG in casing)	146 mm	-17.10 m	110.40 m

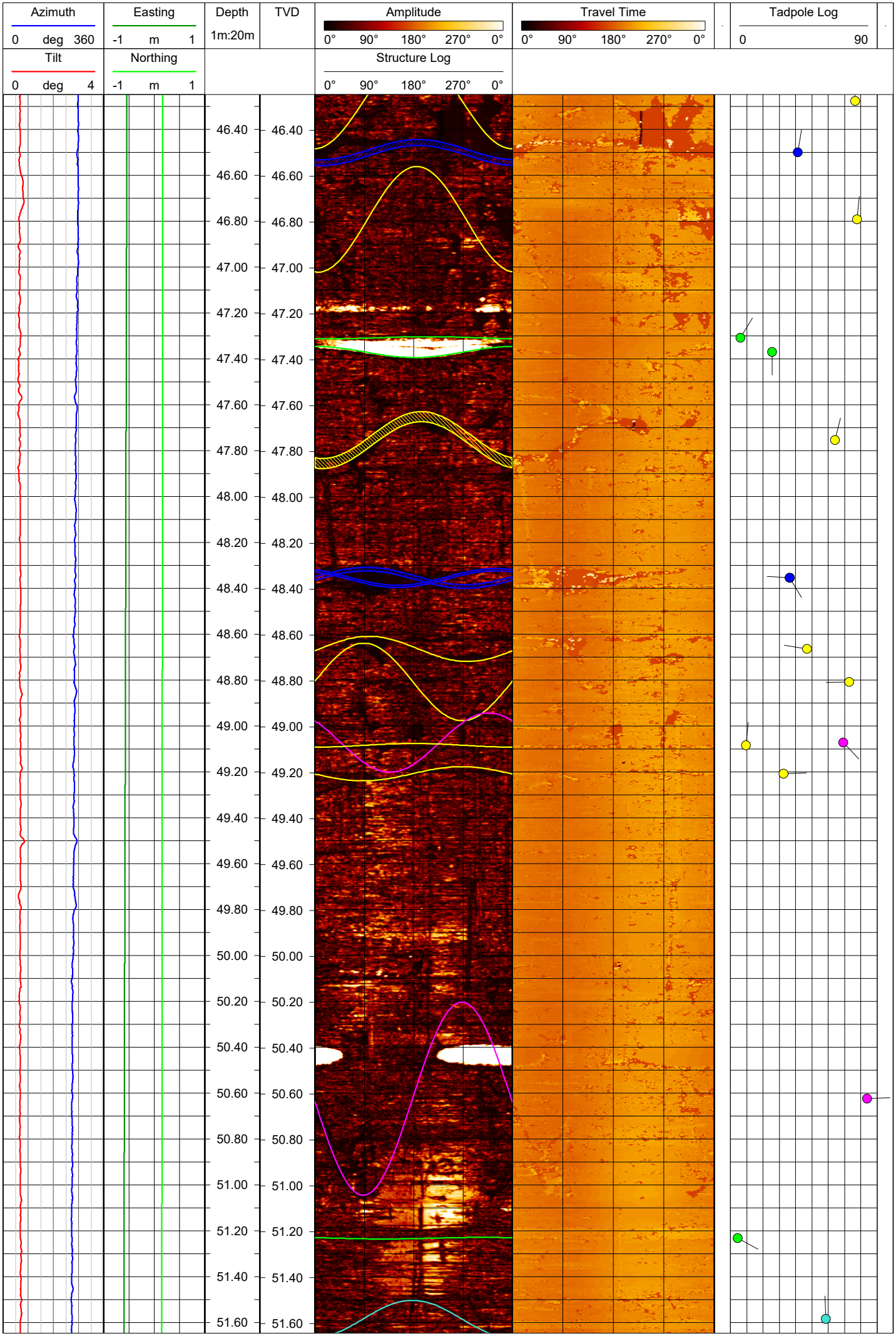


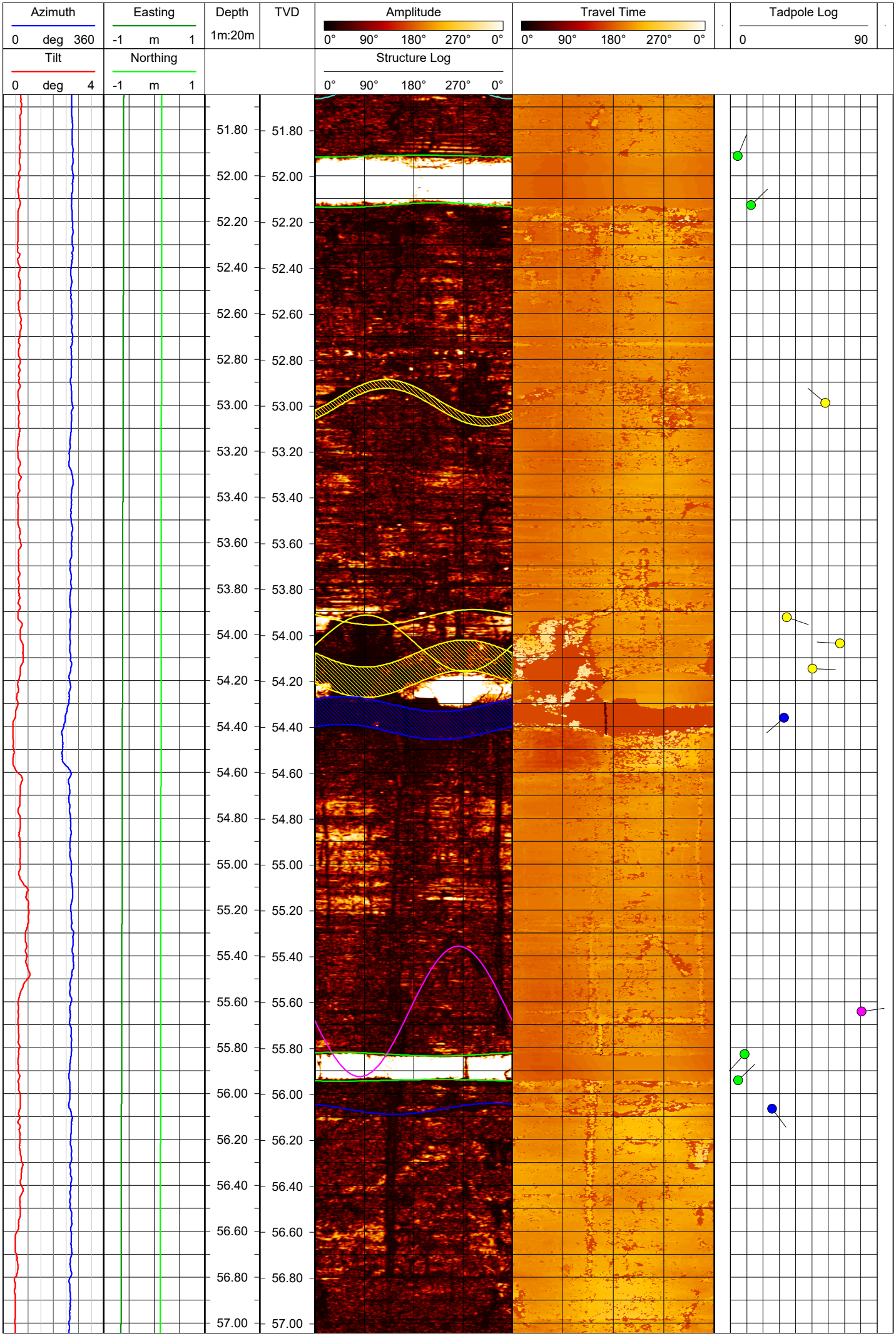

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-1 m 1
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
24.80
25.00
25.20
25.40
25.60
25.80
26.00
26.20
26.40
26.60
26.80
27.00
27.20
27.40
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29.20
29.40
29.60
29.80
30.00

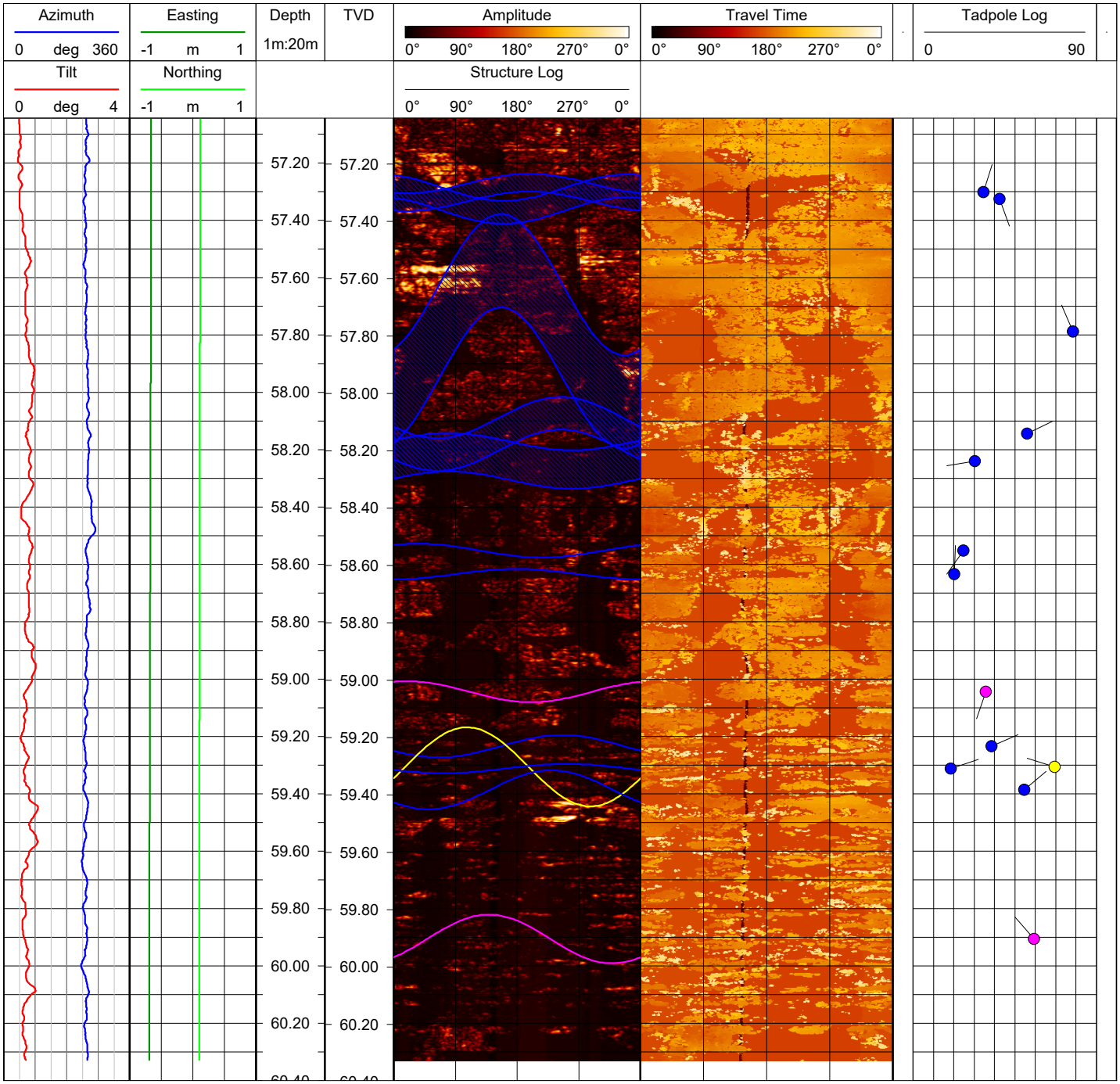

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-1 m 1
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
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Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
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34.80
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35.20
35.40


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-1 m 1
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
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Structure Log
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Travel Time
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Tadpole Log
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Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-1 m 1
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
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Travel Time
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Tadpole Log
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45.80
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Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-1 m 1
Northing
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1m:20m
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Amplitude
0° 90° 180° 270° 0°
Structure Log
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Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-1 m 1
Northing
-1 m 1
Depth
1m:20m
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Amplitude
0° 90° 180° 270° 0°
Structure Log
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Travel Time
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Tadpole Log
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Azimuth
0 deg 360
Tilt
0 deg 4
Easting
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Northing
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Depth
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Amplitude
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Structure Log
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Travel Time
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Tadpole Log
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58.40
58.60
58.80
59.00
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59.60
59.80
60.00
60.20

IT1_SPT_04 Discontinuity Table

Depth (m)	Azimuth (deg)	Dip (deg)	Type
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□□.□□	□□□	□□	M□□□r□□□□□□□□□r□□□□r□□□□□□□
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Depth (m)	Azimuth (deg)	Dip (deg)	Type
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□□□□□	□□	□□	M□□□r□□ □□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
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□□□□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□□□	□	□□	M□□□r□□ □□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□□□	□	□□	M□□□r□□□□□□□□□□r□□□□r□□□□□□
□□□□□	□	□□	M□□□r□□ □□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□□□	□□	□	□□dd□□□□□□□□□□d□□□□□□□□□□□

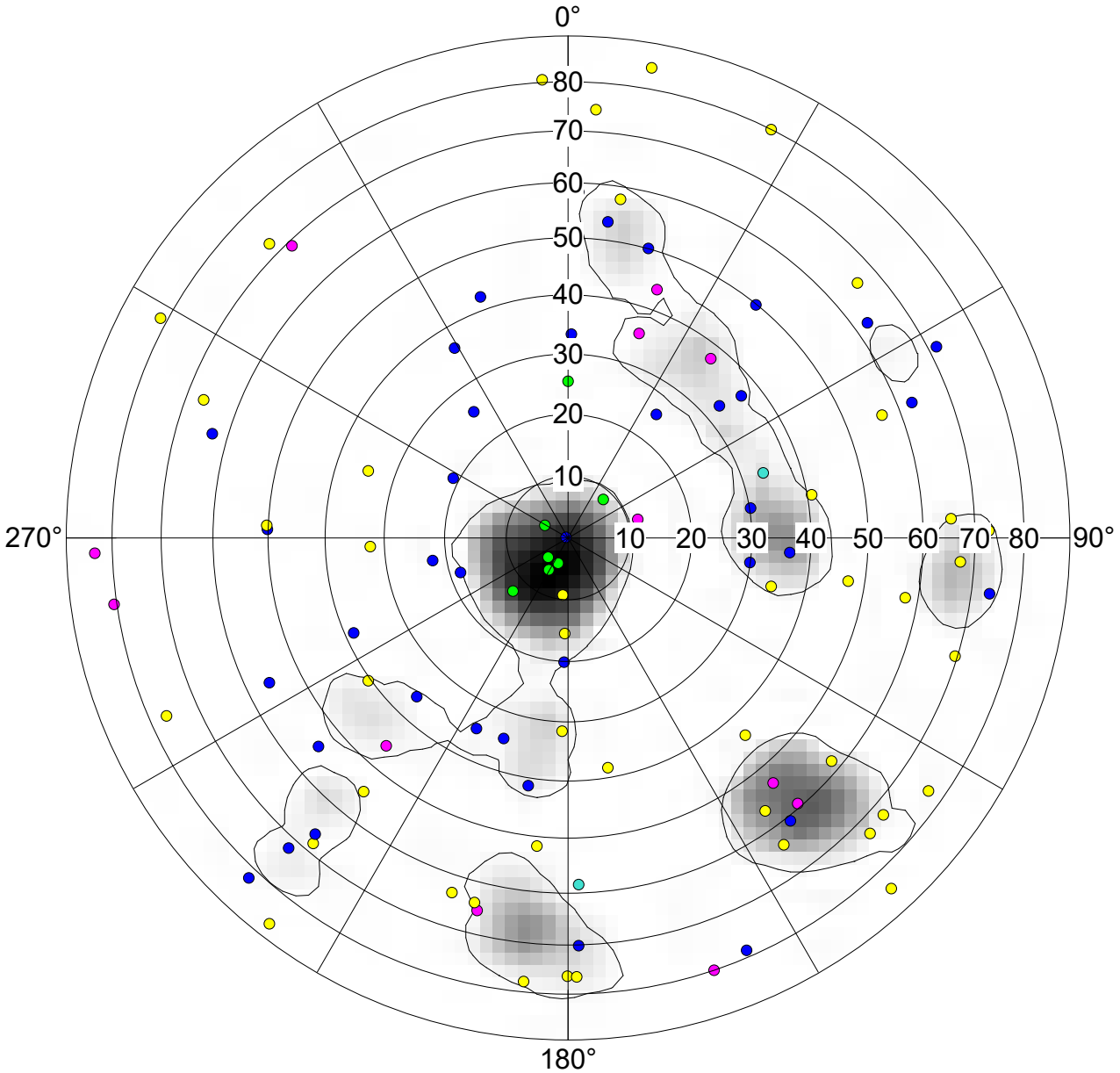
Depth (m)	Azimuth (deg)	Dip (deg)	Type
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	[illegible]d
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	M[illegible]r[illegible]r[illegible]r[illegible]
[illegible]	[illegible]	[illegible]	[illegible]d

Client:	EDF Energy
Project:	Ground Investigation - Sizewell C
Borehole:	**IT1_SPT_04**
Log Title:	**Polar Plot**

Tadpole | Sine Wave

- Major Fracture / Joint - open
- Minor Fracture / Joint - probably open
- Fracture / Joint - not further evaluable
- Fracture / Joint - infilled
- Bedding / Banding / Foliation / Lamination
- Unclassified
- Lithological boundary

Schmidt Plot - LH - Type
Depth: 27.00 [m] to 60.00 [m]



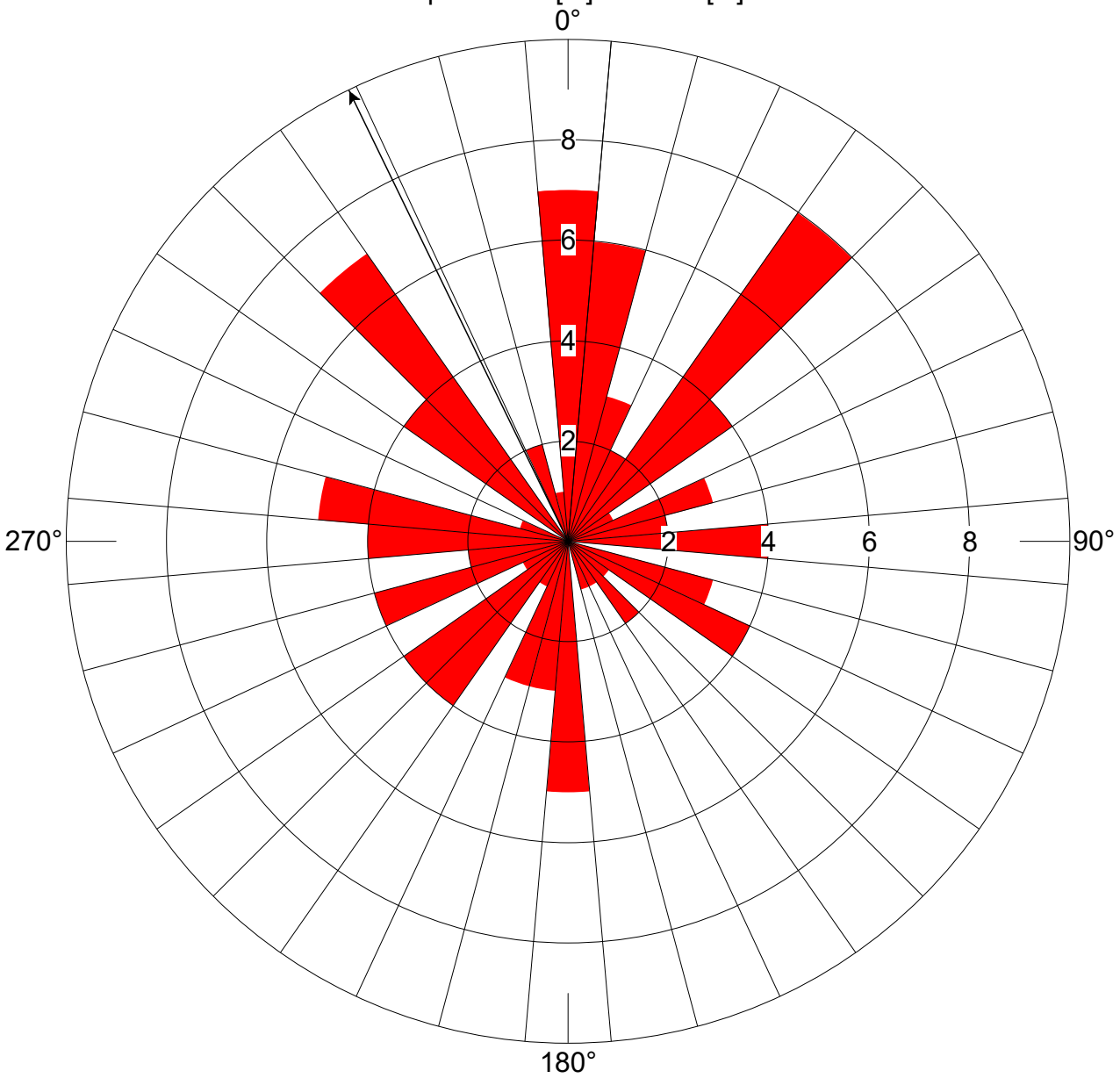
	Counts	Dip[deg]	Azi[deg]
Mean	103	17.41	334.04
●	38	4.91	152.61
●	44	58.04	330.11
●	12	43.46	310.84
●	2	32.86	320.72
●	7	2.67	123.93

Client: EDF Energy

Project: Ground Investigation - Sizewell C

Borehole: **IT1_SPT_04** Log Title: **Rose Plot**

Azimuth - Absolute (Count)
Depth: 27.00 [m] to 60.00 [m]



Components:	Azimuth
Counts:	103.00
Mean (3D):	334.04
Min:	0.11
Max:	358.86

WIRELINE GEOPHYSICAL LOG

Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**

Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
Borehole: IT1_SPT_04	Fugro Site Manager: Julian North, Callum Murphy	19-21/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650005.10 N: 263453.25	Grid Reference: OSGB 1936 Elevation: -6.05 mOD
Borehole Depth (Drilling): 110.40 m	Recorded By: L.Pal, E. Cox	Processed By: L.Pal, E. Cox
Borehole Depth (Wireline): 109.92 m	Remarks:	
Logging Datum: mud level	Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections. Borehole collapsed at 4.90 m when Caliper sonde went down for Section 5. Determination of S wave velocity was unsuccessful from 23.50 m to 24.50 m and from 58.00 m and 61.00 m, S waves were not generated in these sections due to caverns and borehole rugosity.	
Logged Interval: 0.00 m - 109.92 m		
Fluid Level: sea level		

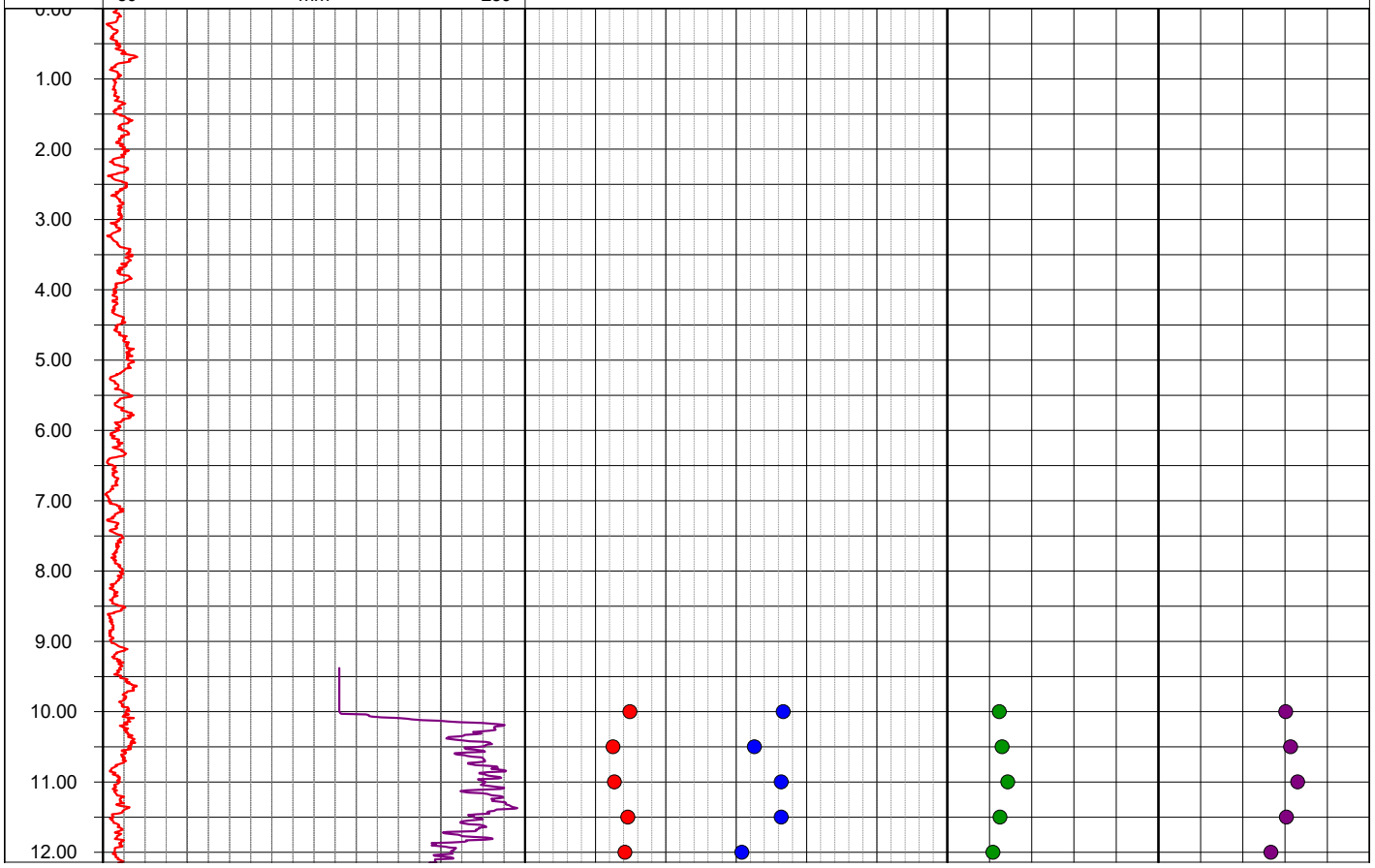
BOREHOLE RECORD (DRILLING)

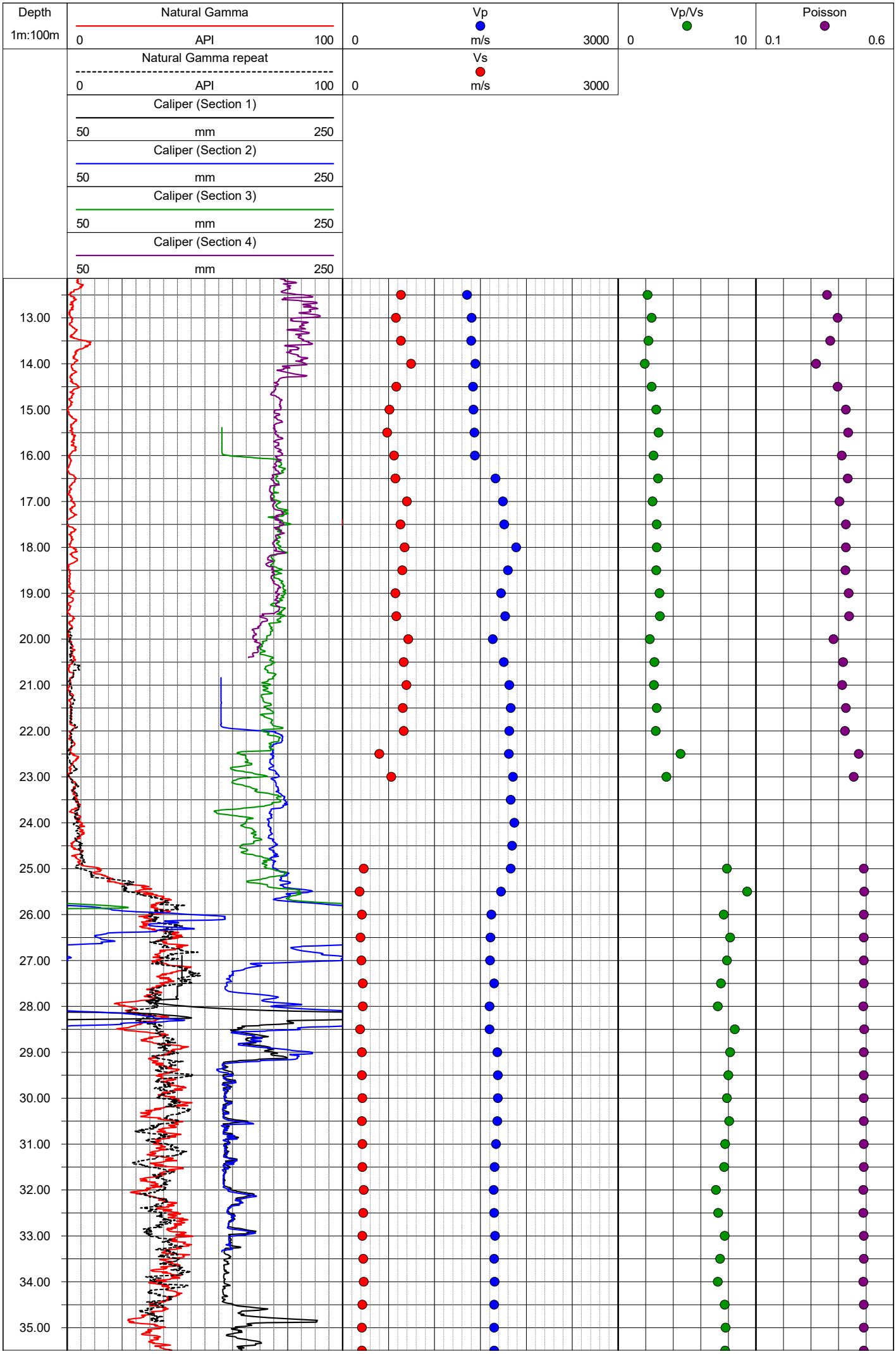
Bit Diameter:	From:	To:
146 mm	0.00 m	110.40 m

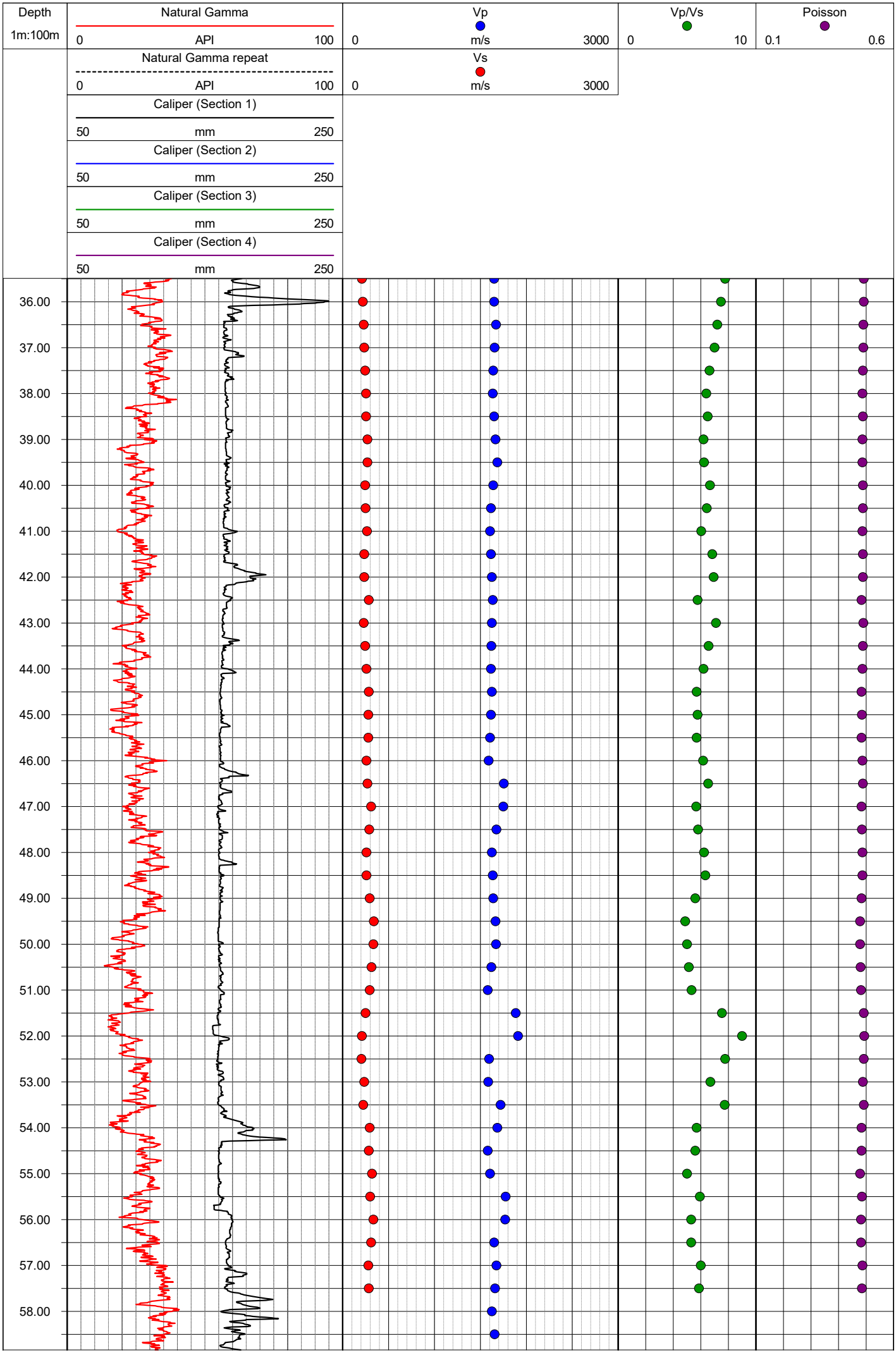
CASING RECORD (DRILLING)

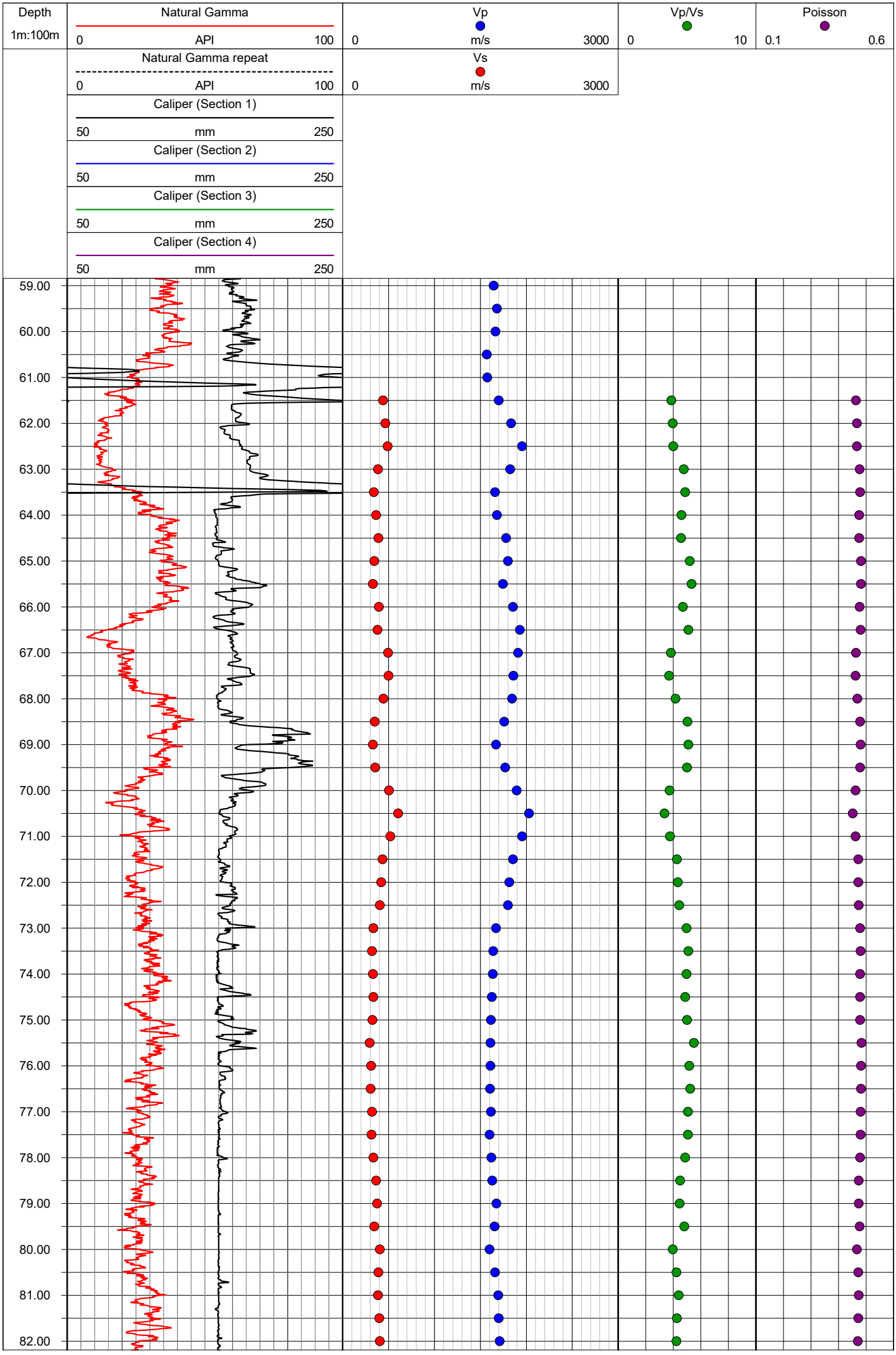
Type:	Size:	From:	To:
Steel	255 mm	-16.10 m	1.00 m
Steel	178 mm	-16.50 m	26.00 m
Steel (NG in casing)	146 mm	-17.10 m	110.40 m

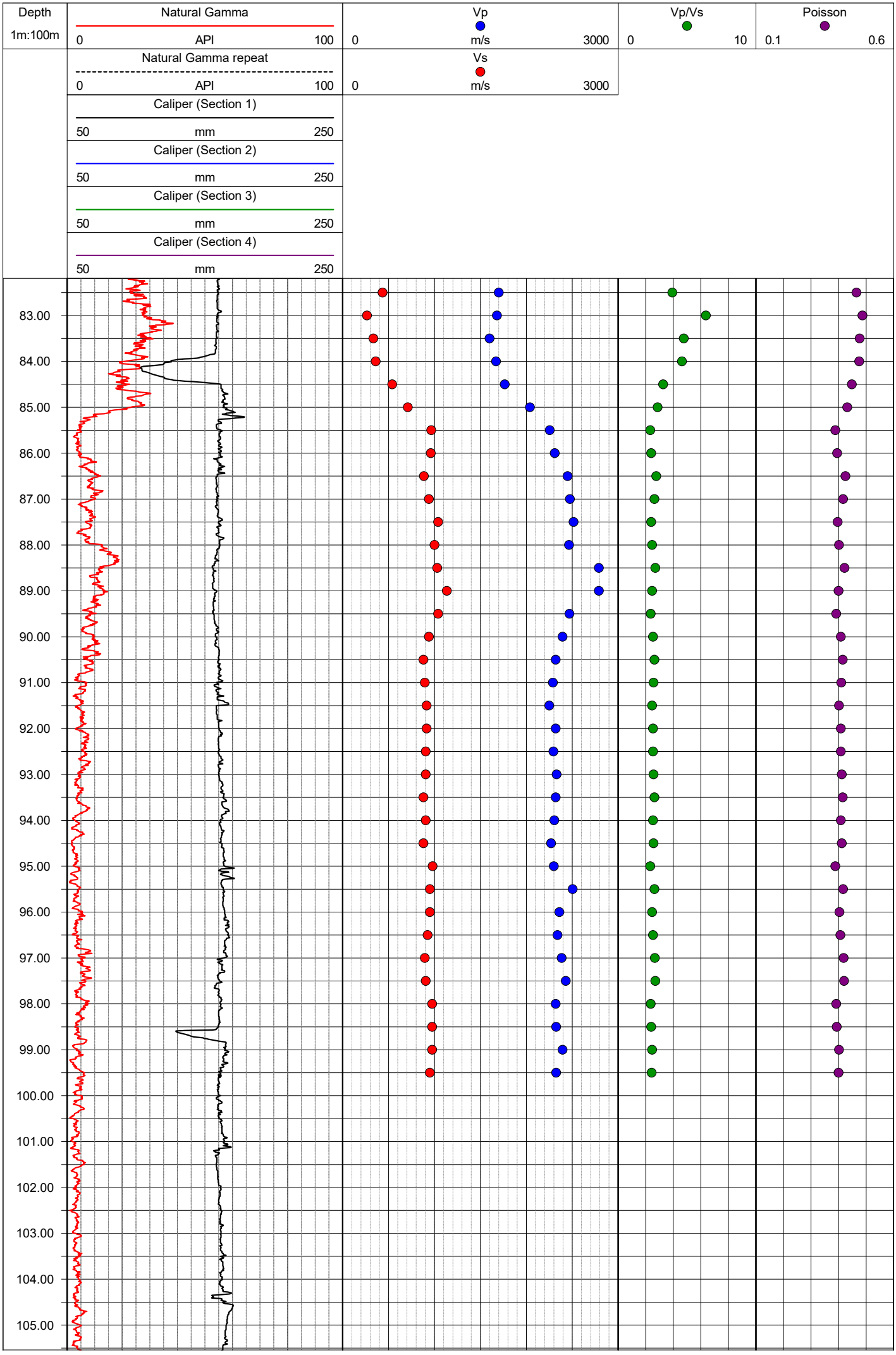
Depth 1m:100m	Natural Gamma 0 API 100	Natural Gamma repeat 0 API 100	Caliper (Section 1) 50 mm 250	Caliper (Section 2) 50 mm 250	Caliper (Section 3) 50 mm 250	Caliper (Section 4) 50 mm 250	Vp 0 m/s 3000	Vs 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6



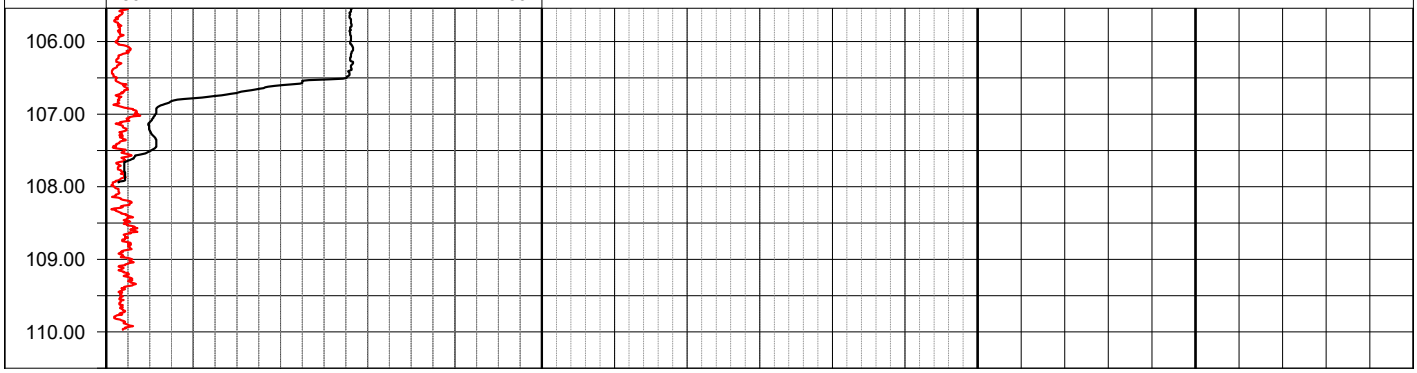

Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00


Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Caliper (Section 4)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
36.00
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00
56.00
57.00
58.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
59.00
60.00
61.00
62.00
63.00
64.00
65.00
66.00
67.00
68.00
69.00
70.00
71.00
72.00
73.00
74.00
75.00
76.00
77.00
78.00
79.00
80.00
81.00
82.00


Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Caliper (Section 4)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
83.00
84.00
85.00
86.00
87.00
88.00
89.00
90.00
91.00
92.00
93.00
94.00
95.00
96.00
97.00
98.00
99.00
100.00
101.00
102.00
103.00
104.00
105.00

Depth	Natural Gamma	Vp	Vp/Vs	Poisson
1m:100m	0 API 100	0 m/s 3000	0 10	0.1 0.6
	Natural Gamma repeat	Vs		
	0 API 100	0 m/s 3000		
	Caliper (Section 1)			
	50 mm 250			
	Caliper (Section 2)			
	50 mm 250			
	Caliper (Section 3)			
	50 mm 250			
	Caliper (Section 4)			
	50 mm 250			



IT1_SPT_04 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

rr d

rr d

rr d

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
	Borehole: IT1_SPT_05	Fugro Site Manager: Julian North, Daryl Brooks	16-17/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 650532.44 N: 263347.03	Grid Reference: OSGB 1936	Elevation: -13.69 mOD
Borehole Depth (Drilling): 56.00 m		Recorded By: L. Pal, Sz. Boncz	Processed By: L. Pal, Sz. Boncz
Borehole Depth (Wireline): 55.62 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 55.62 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 2 sections. No PSL data above 20.00 m due to borehole collapse after 2nd section.	
Fluid Level: sea level			

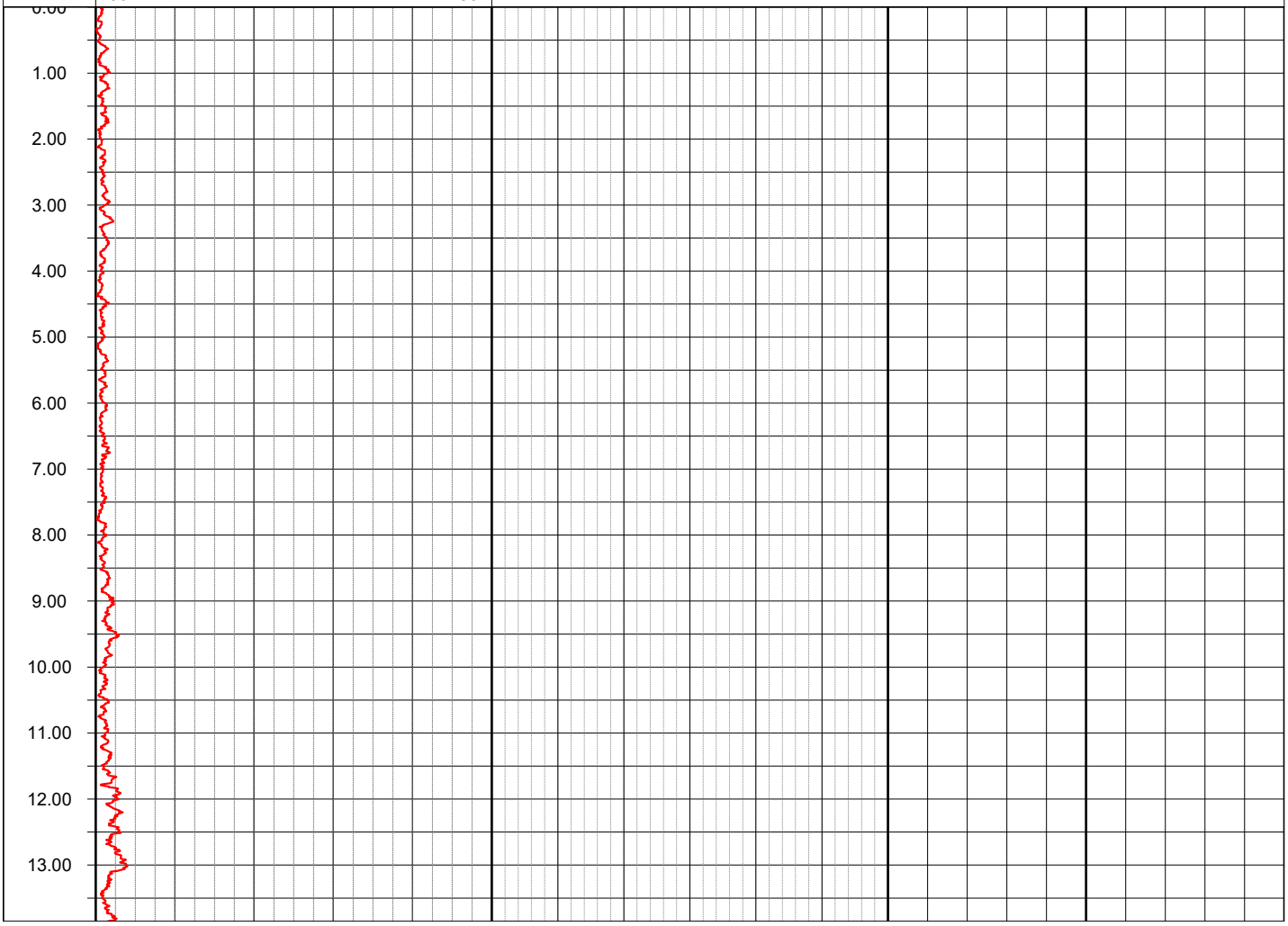
BOREHOLE RECORD (DRILLING)

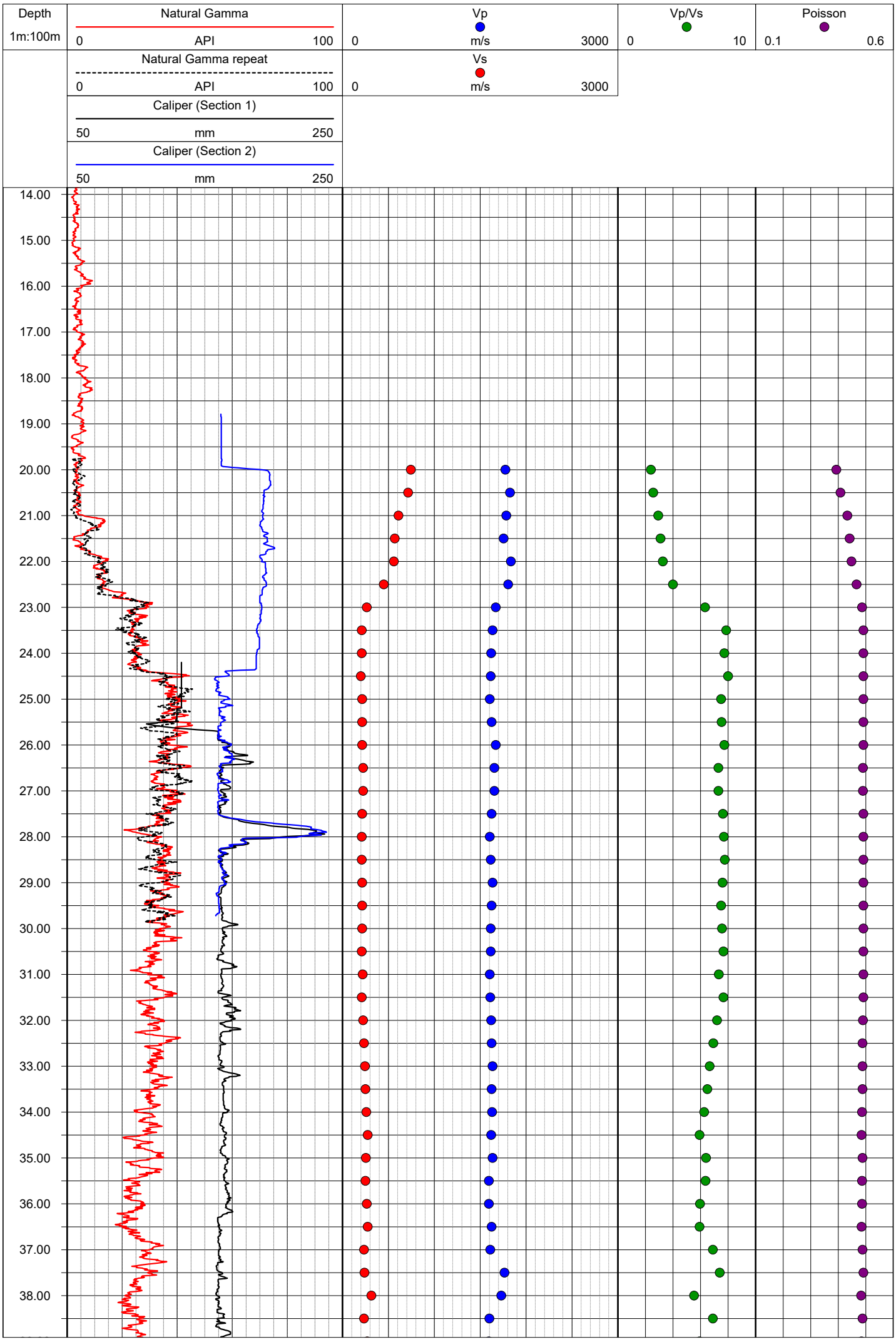
Bit Diameter:	From:	To:
146 mm	0.00 m	56.00 m

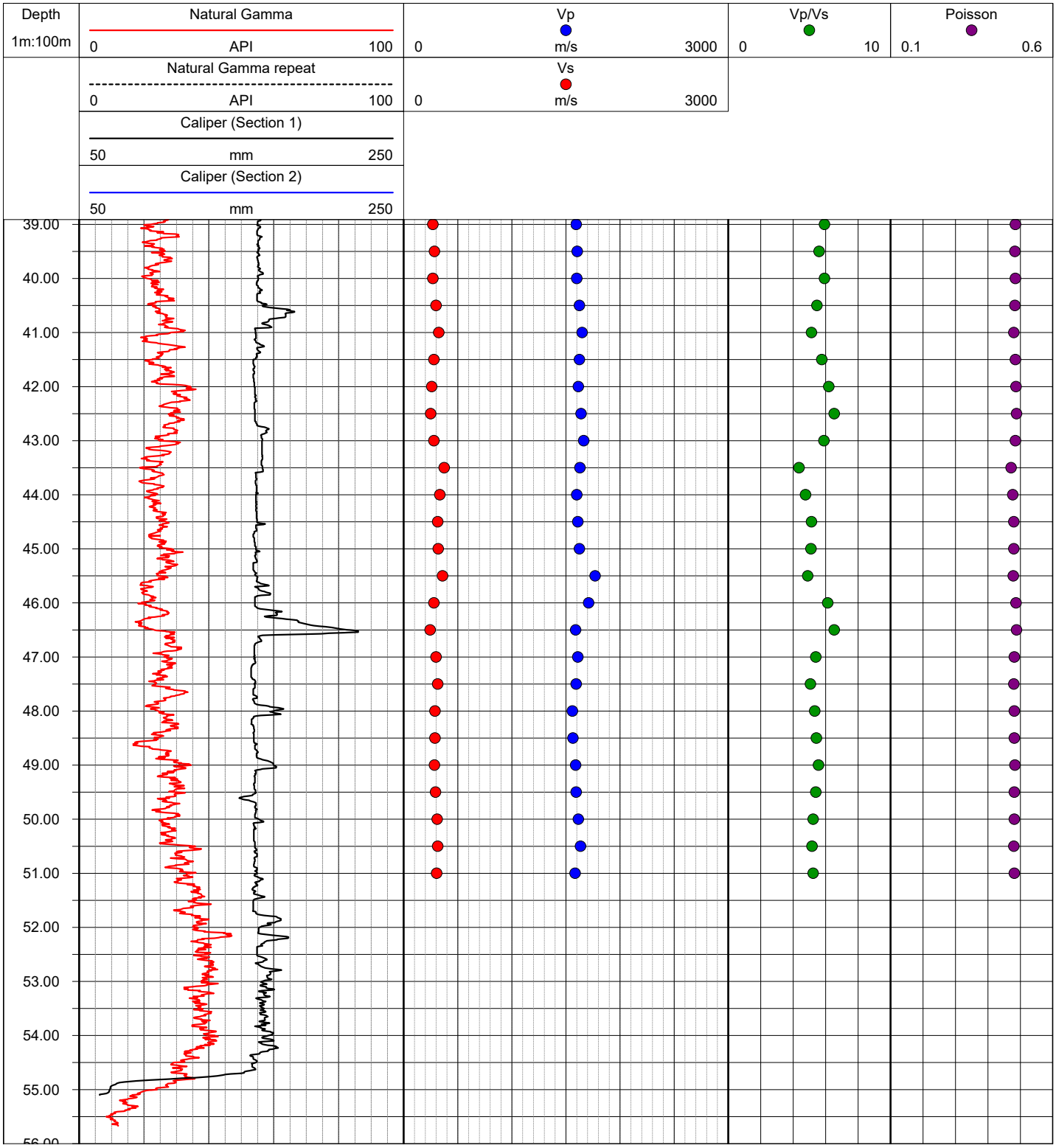
CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-24.30 m	1.00 m
Steel	178 mm	-24.70 m	22.00 m
Steel (NG in casing)	146 mm	-25.10 m	56.00 m

Depth 1m:100m	Natural Gamma 0 API 100	Vp 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6
	Natural Gamma repeat 0 API 100	Vs 0 m/s 3000		
	Caliper (Section 1) 50 mm 250			
	Caliper (Section 2) 50 mm 250			




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00
38.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00

IT1_SPT_05 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

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FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**
	Client: EDF Energy	Client Representative: Sylvain Pouliquen — Logging Date:
	Borehole: IT1_SPT_06	Fugro Site Manager: Julian North, Colin Mulvey — 06-07/06/2019

Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650628.28 N: 263326.30	Grid Reference: OSGB 1936 — Elevation: -14.05 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: L. Pal — Processed By: L. Pal
Borehole Depth (Wireline): 54.82 m		Remarks:
Logging Datum: mud level		
Logged Interval: 0.00 m - 54.82 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections. Top section was logged using GeoVista PS Logger due to equipment failure.
Fluid Level: sea level		

BOREHOLE RECORD (DRILLING)

Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-25.20 m	1.80 m
Steel	178 mm	-25.20 m	24.00 m
Steel (NG in casing)	146 mm	-26.00 m	55.00 m

Depth 1m:100m

Natural Gamma: 0 API 100

Natural Gamma repeat: 0 API 100

Caliper (Section 1): 50 mm 250

Caliper (Section 2): 50 mm 250

Caliper (Section 3): 50 mm 250

Vp: 0 m/s 3000

Vs: 0 m/s 3000

Vp (GeoVista): 0 3000

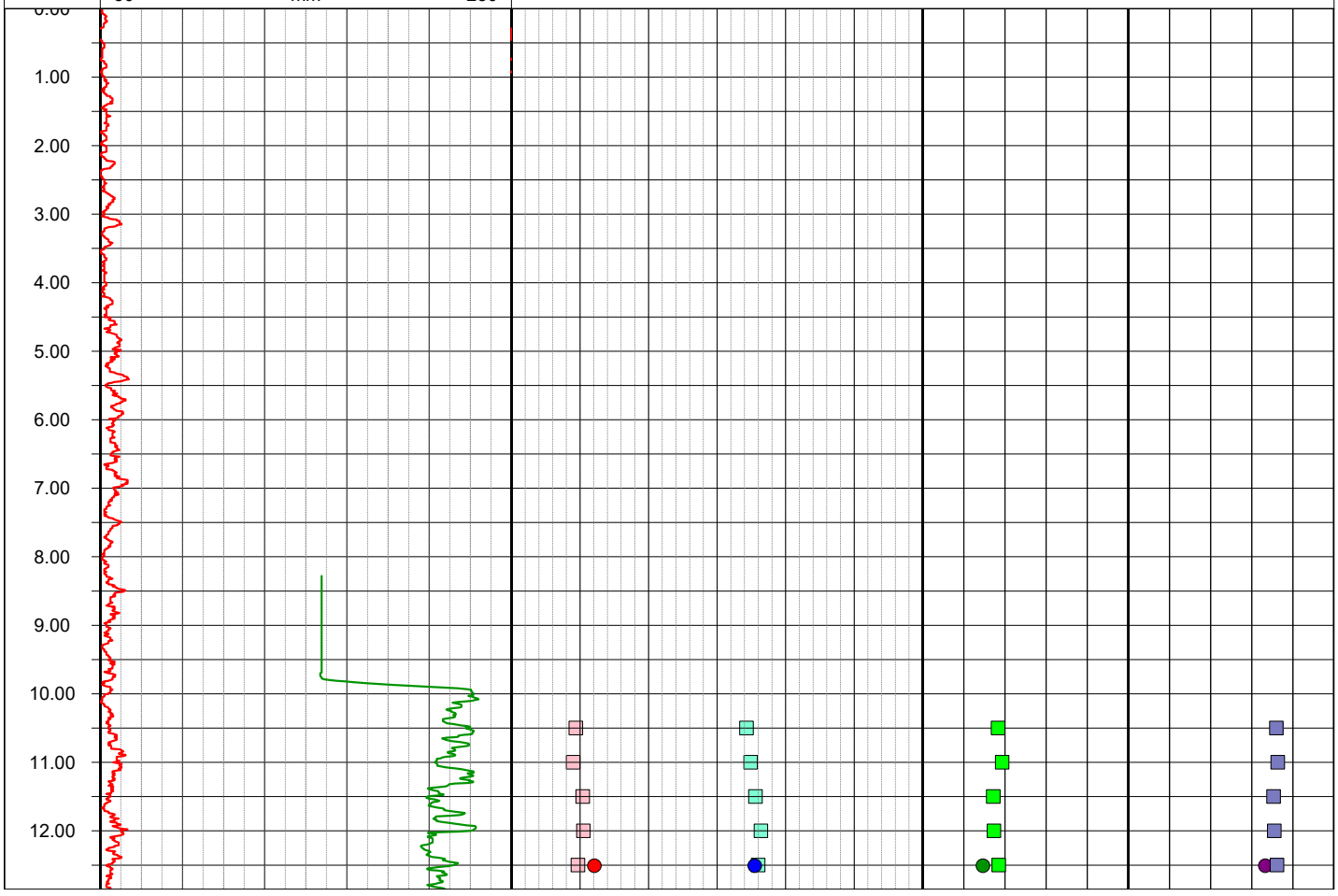
Vs (GeoVista): 0 3000

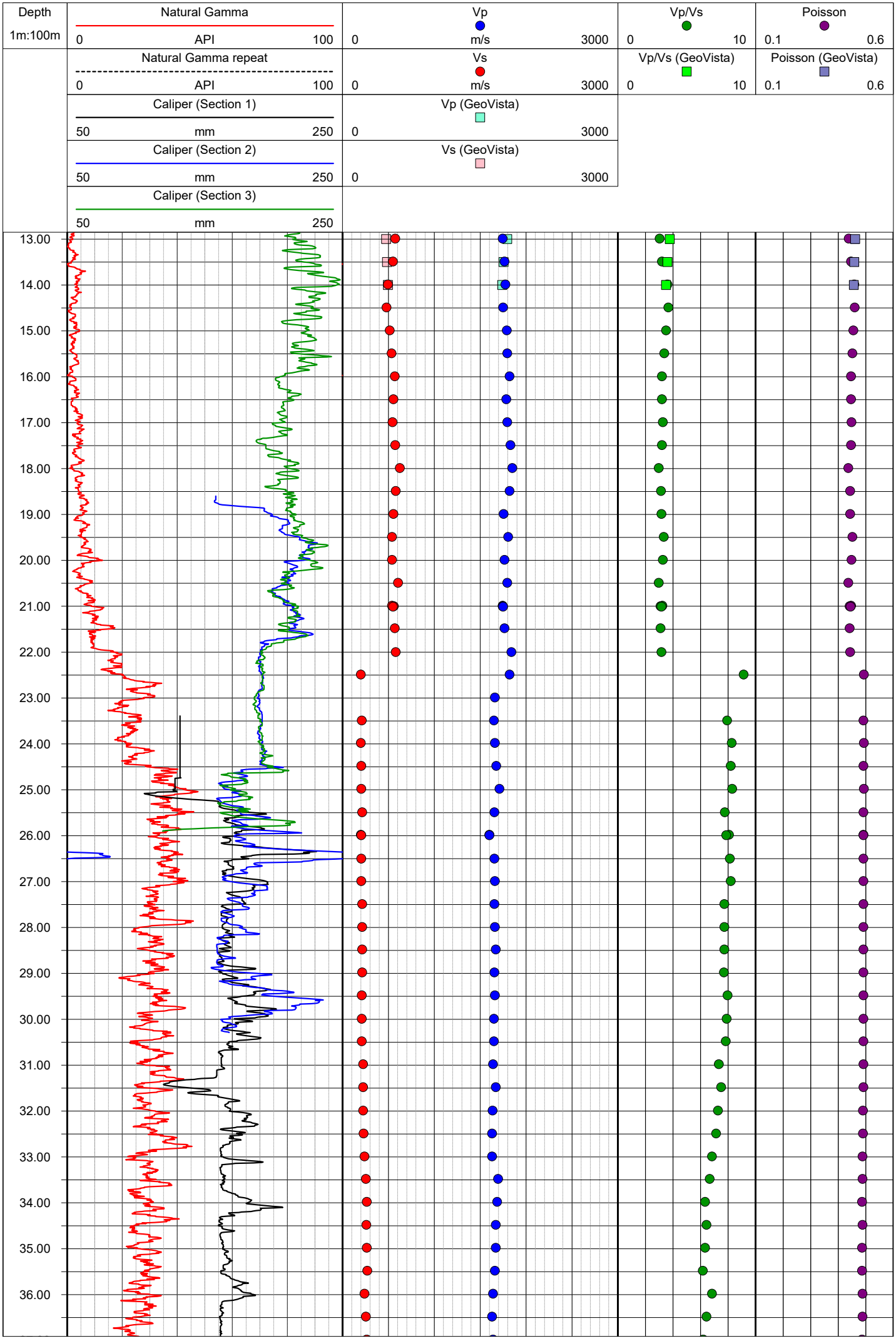
Vp/Vs: 0 10

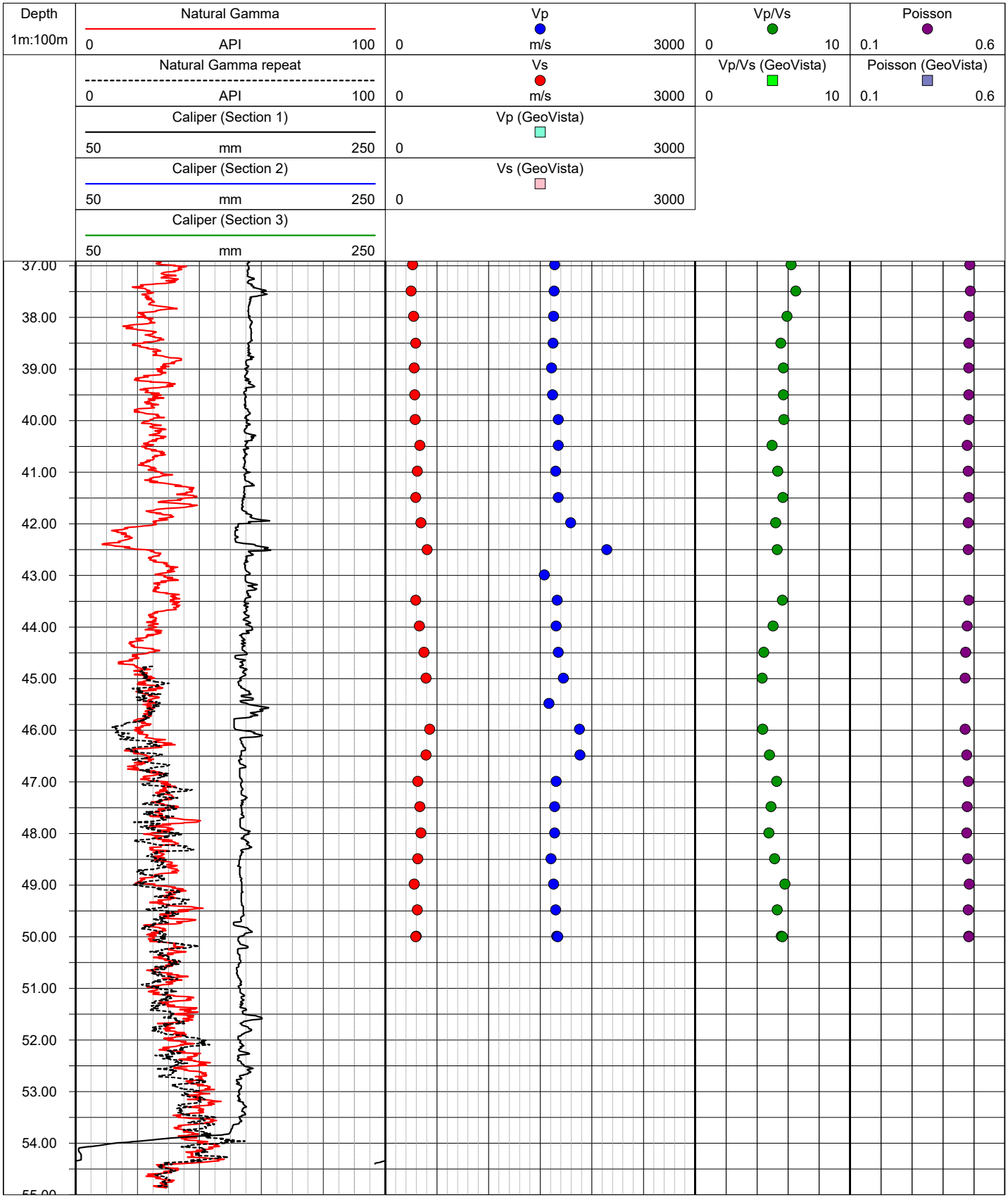
Vp/Vs (GeoVista): 0 10

Poisson: 0.1 0.6

Poisson (GeoVista): 0.1 0.6




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp (GeoVista)
0 3000
Vs (GeoVista)
0 3000
Vp/Vs
0 10
Vp/Vs (GeoVista)
0 10
Poisson
0.1 0.6
Poisson (GeoVista)
0.1 0.6
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00


Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp (GeoVista)
0 3000
Vs (GeoVista)
0 3000
Vp/Vs
0 10
Vp/Vs (GeoVista)
0 10
Poisson
0.1 0.6
Poisson (GeoVista)
0.1 0.6
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

IT1_SPT_06 VELOCITY TABLE (PSL)

marked cells with GeoVista tool

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

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WIRELINE GEOPHYSICAL LOG

Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**

Client: EDF Energy	Client Representative: Thierry Denois	Logging Date:
Borehole: IT1_SPT_07	Fugro Site Manager: Julian North, Colin Mulvey	04/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650724.41 N: 263306.39	Grid Reference: OSGB 1936
Borehole Depth (Drilling): 55.00 m	Recorded By: L.Pal; Sz.Boncz	Processed By: L.Pal; Sz.Boncz
Borehole Depth (Wireline): 54.64 m	Remarks:	
Logging Datum: mud level		
Logged Interval: 0.00 m - 54.64 m	Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections. No PSL data between 20.50 and 25.00 m due to borehole collapse	
Fluid Level: sea level		

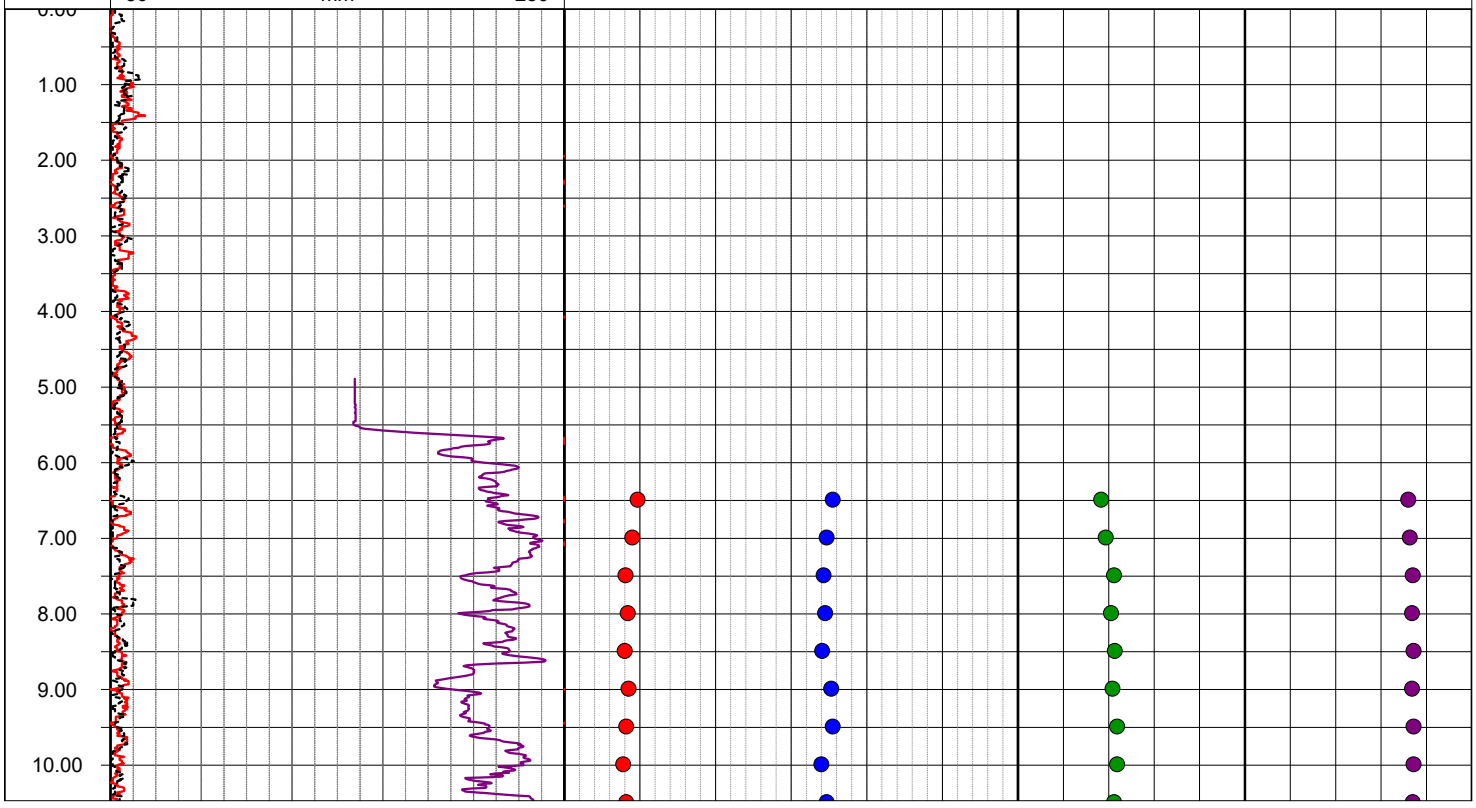
BOREHOLE RECORD (DRILLING)

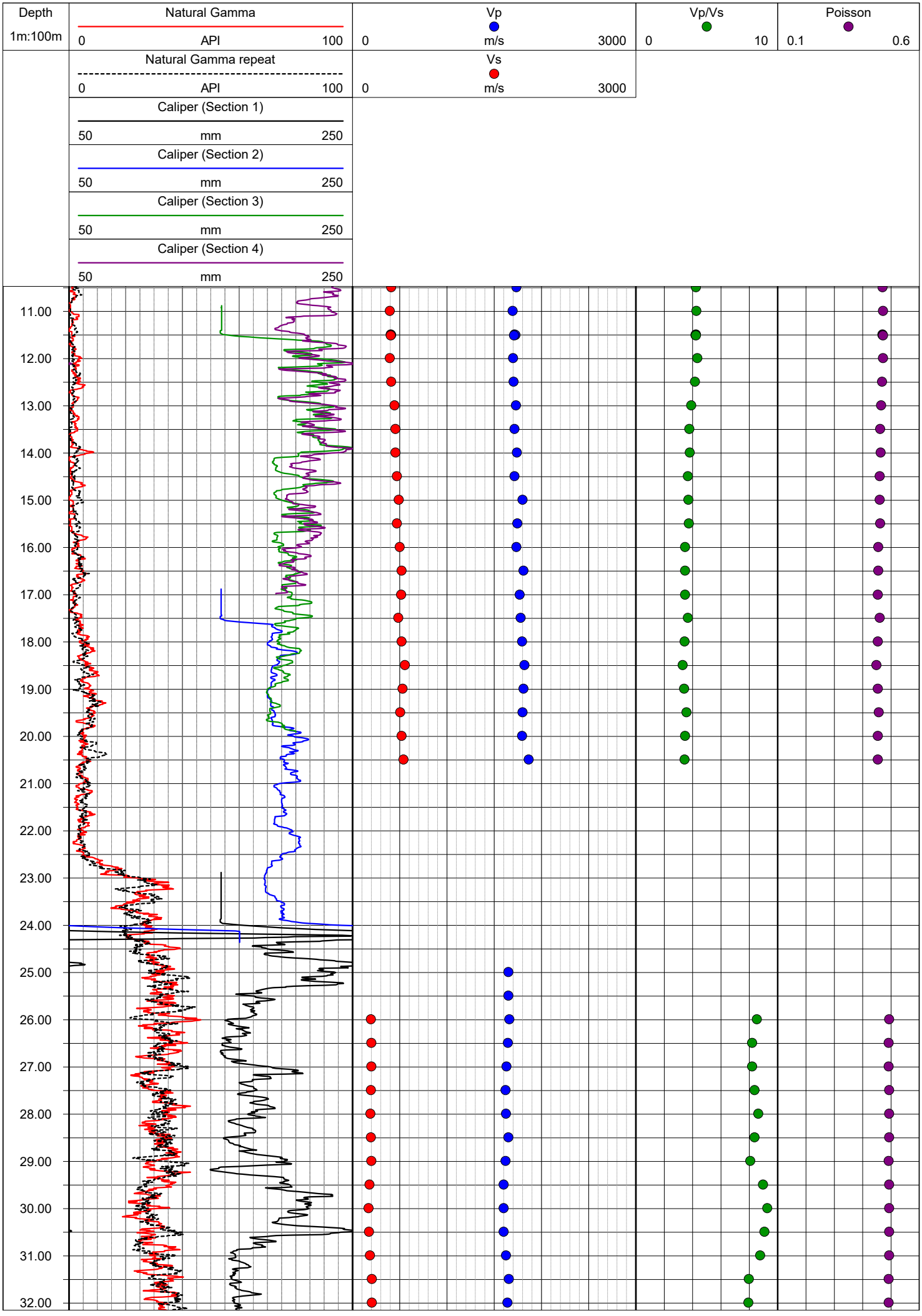
Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

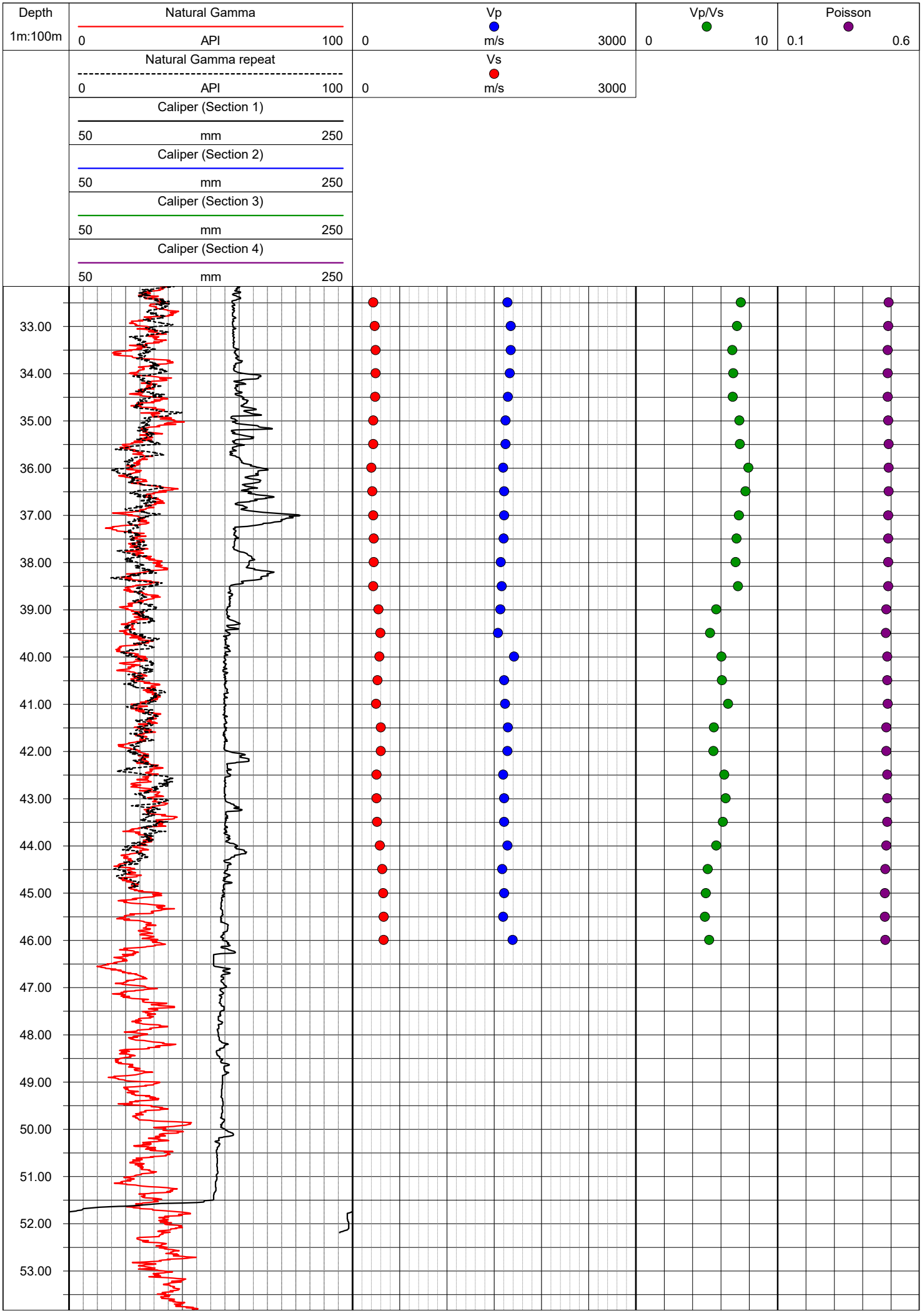
CASING RECORD (DRILLING)

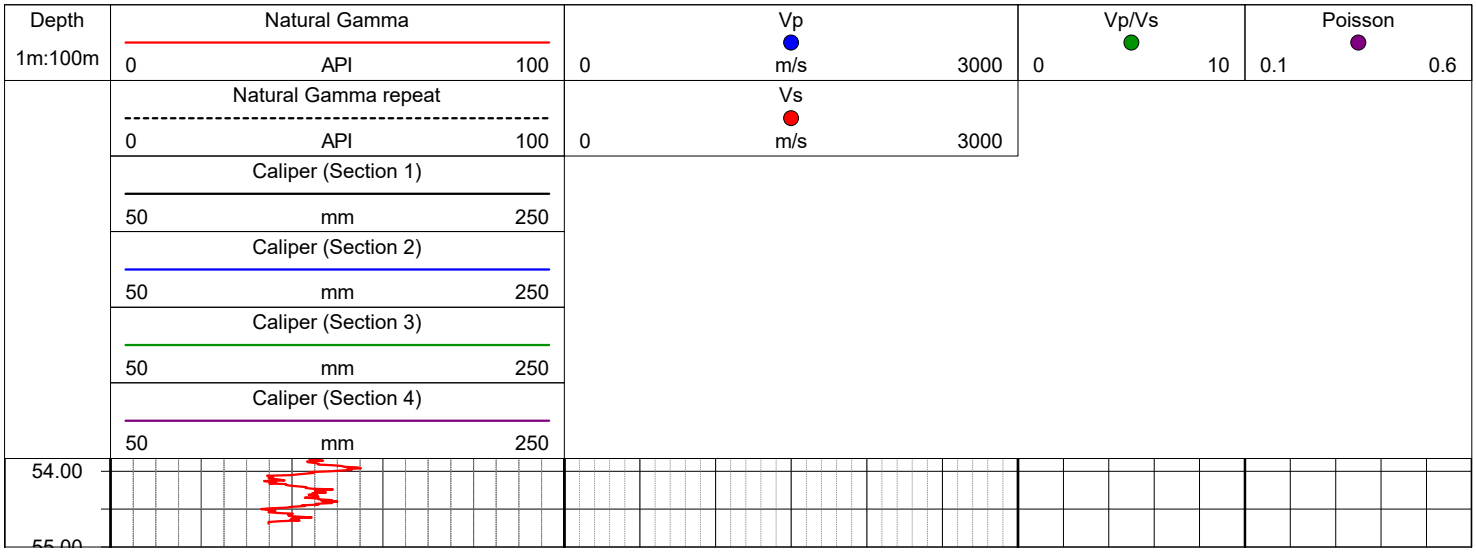
Type:	Size:	From:	To:
Steel	255 mm	-23.80 m	1.05 m
Steel	178 mm	-24.00 m	24.00 m
Steel (NG in casing)	146 mm	-18.28 m	55.00 m

Depth 1m:100m	Natural Gamma 0 API 100	Natural Gamma repeat 0 API 100	Caliper (Section 1) 50 mm 250	Caliper (Section 2) 50 mm 250	Caliper (Section 3) 50 mm 250	Caliper (Section 4) 50 mm 250	Vp 0 m/s 3000	Vs 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Caliper (Section 4)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00


Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Caliper (Section 4)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
33.00
34.00
35.00
36.00
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
54.00
55.00

IT1_SPT_07 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

rr d

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Sylvain Pouliquen	Logging Date:
	Borehole: IT2_SPT_01	Fugro Site Manager: Julian North, Colin Mulvey	10/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 648131.21 N: 264197.55	Grid Reference: OSGB 1936	Elevation: -7.28 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: L. Pal, E. Cox	Processed By: L. Pal, E. Cox
Borehole Depth (Wireline): 54.45 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 54.45 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections. PSL data point at 36.50 m is missing due to borehole collapse after casing pull.	
Fluid Level: sea level			

BOREHOLE RECORD (DRILLING)

Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-16.92 m	1.10 m
Steel	178 mm	-16.92 m	22.00 m
Steel (NG in casing)	146 mm	-17.64 m	55.00 m

Depth 1m:100m

Natural Gamma: 0 API 100

Natural Gamma repeat: 0 API 100

Caliper (Section 1): 50 mm 250

Caliper (Section 2): 50 mm 250

Caliper (Section 3): 50 mm 250

Caliper (Section 4): 50 mm 250

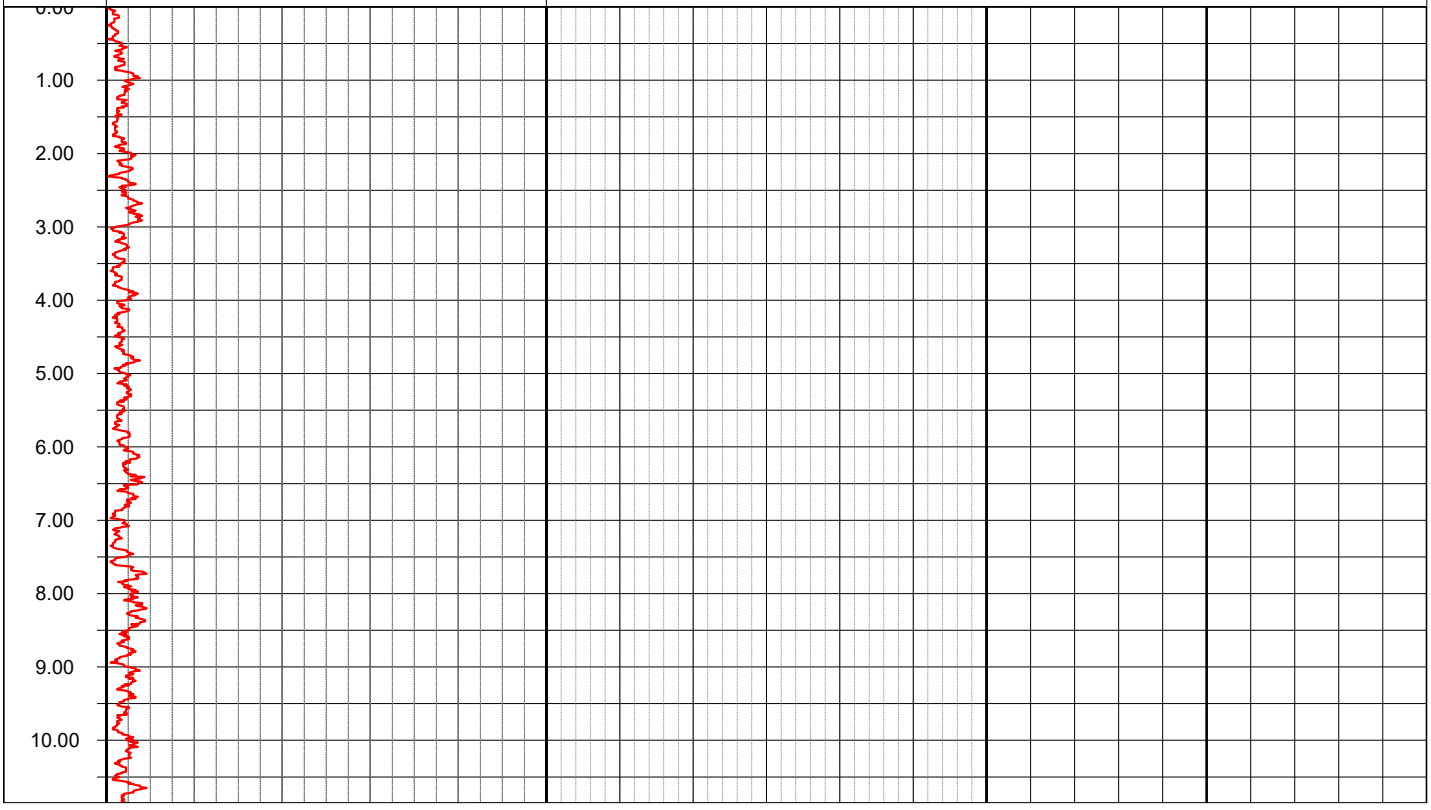
Caliper (Section 5): 50 mm 250

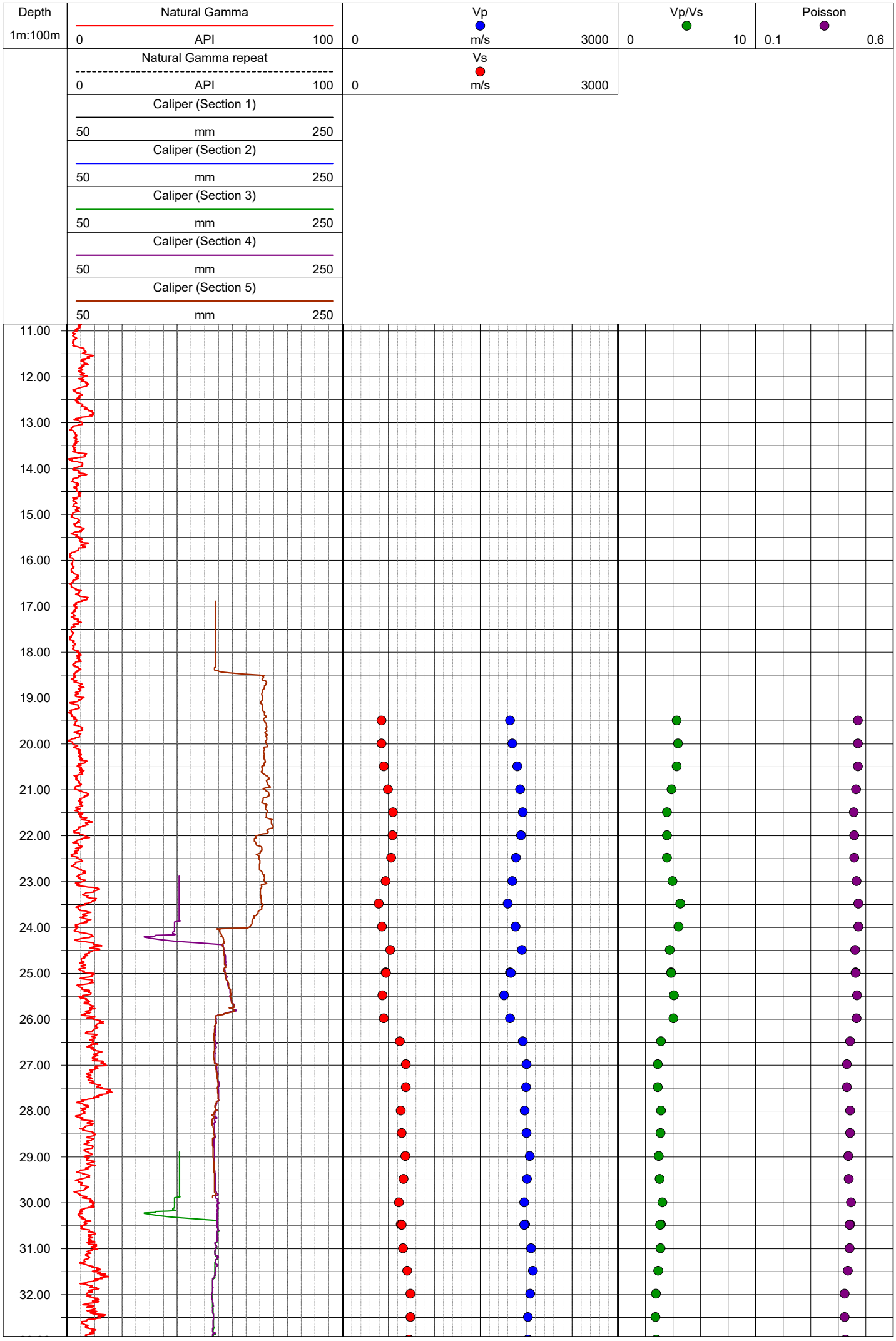
Vp: 0 m/s 3000

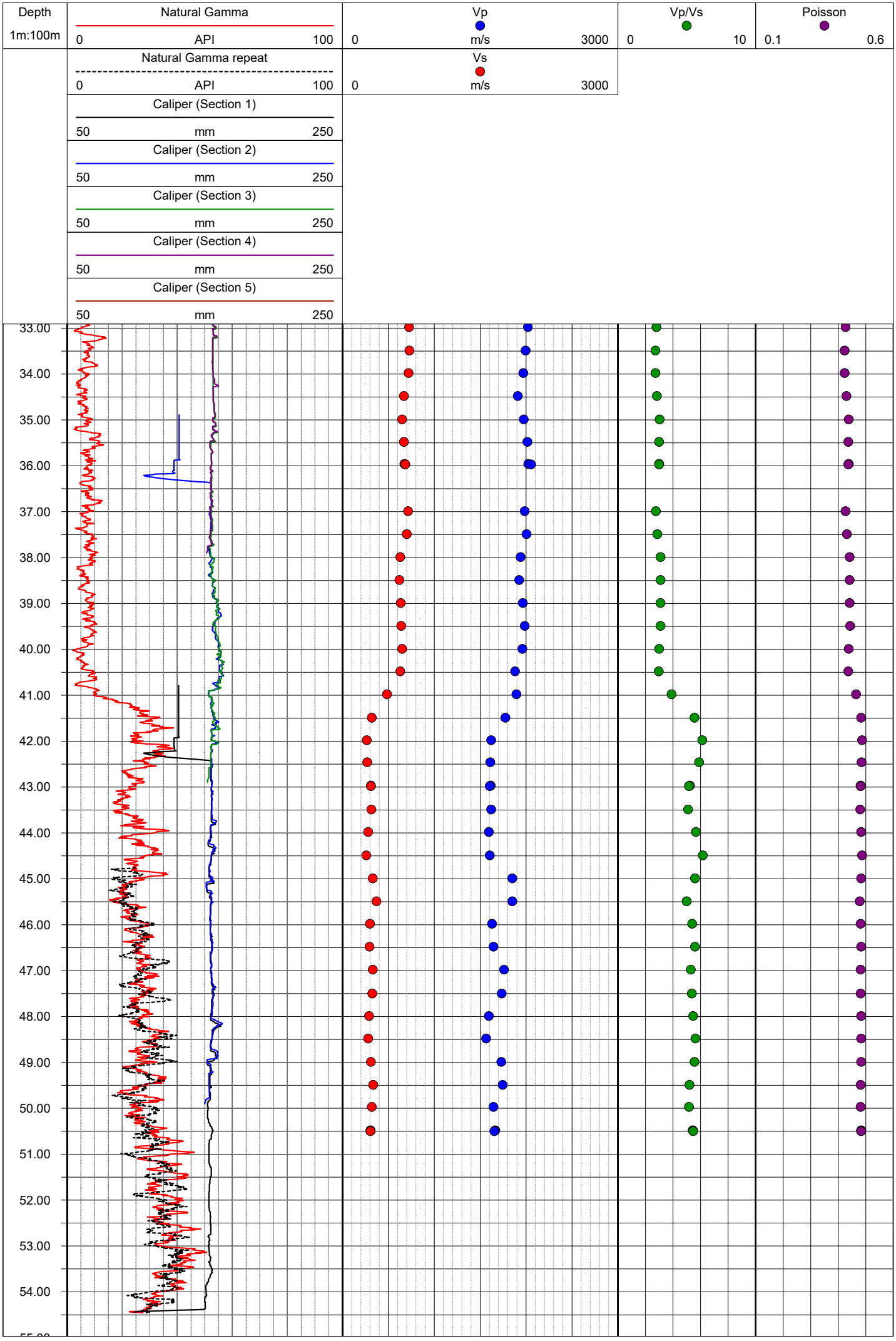
Vs: 0 m/s 3000

Vp/Vs: 0 10

Poisson: 0.1 0.6




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Caliper (Section 5)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00


Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Caliper (Section 4)
50 mm 250
Caliper (Section 5)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
33.00
34.00
35.00
36.00
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

Depth	Natural Gamma	Vp	Vp/Vs	Poisson
1m:100m	0 API 100	0 m/s 3000	0 10	0.1 0.6
	Natural Gamma repeat	Vs		
	0 API 100	0 m/s 3000		
	Caliper (Section 1)			
	50 mm 250			
	Caliper (Section 2)			
	50 mm 250			
	Caliper (Section 3)			
	50 mm 250			
	Caliper (Section 4)			
	50 mm 250			
	Caliper (Section 5)			
	50 mm 250			

IT2_SPT_01 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
	Borehole: IT2_SPT_02	Fugro Site Manager: Julian North, Daryl Brooks	14/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 649757.46 N: 264232.72	Grid Reference: OSGB 1936	Elevation: -7.42 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: L. Pal, Sz. Boncz	Processed By: L. Pal, Sz. Boncz
Borehole Depth (Wireline): 54.56 m		Remarks:	
Logging Datum: mud level		Natural Gamma was logged in steel casing. PS Logging was carried out in 2 sections. Borehole collapsed in several attempts after completion of 2nd section as casing pulled back. Therefore, no PSL/CAL data acquired above 37.5 m depth.	
Logged Interval: 0.00 m - 54.56 m			
Fluid Level: sea level			

BOREHOLE RECORD (DRILLING)

Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-17.70 m	1.30 m
Steel	178 mm	-18.10 m	24.00 m
Steel (NG in casing)	146 mm	-18.60 m	55.00 m

Depth 1m:100m

Natural Gamma: 0 API 100

Natural Gamma repeat: 0 API 100

Caliper (Section 1): 50 mm 250

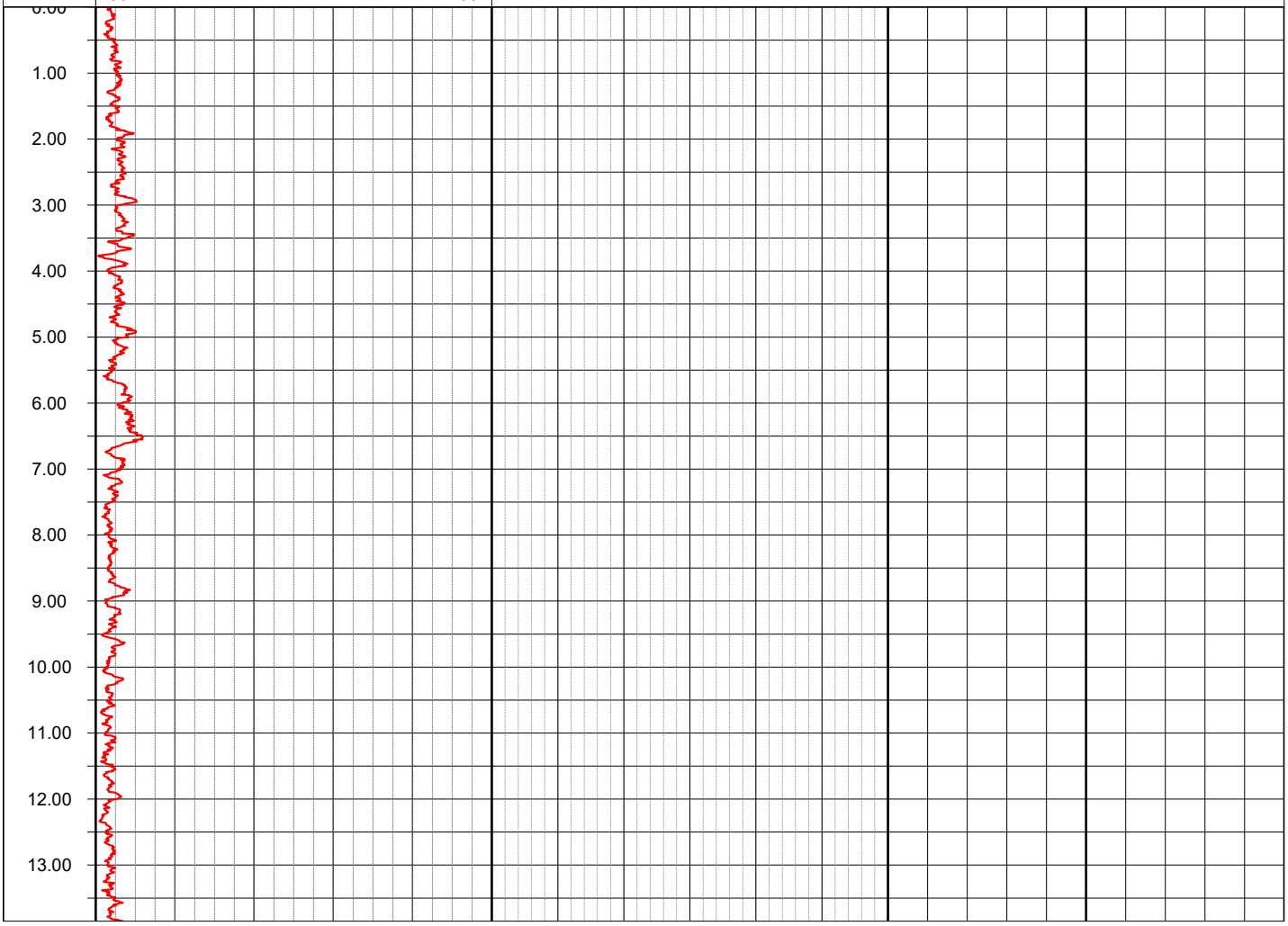
Caliper (Section 2): 50 mm 250

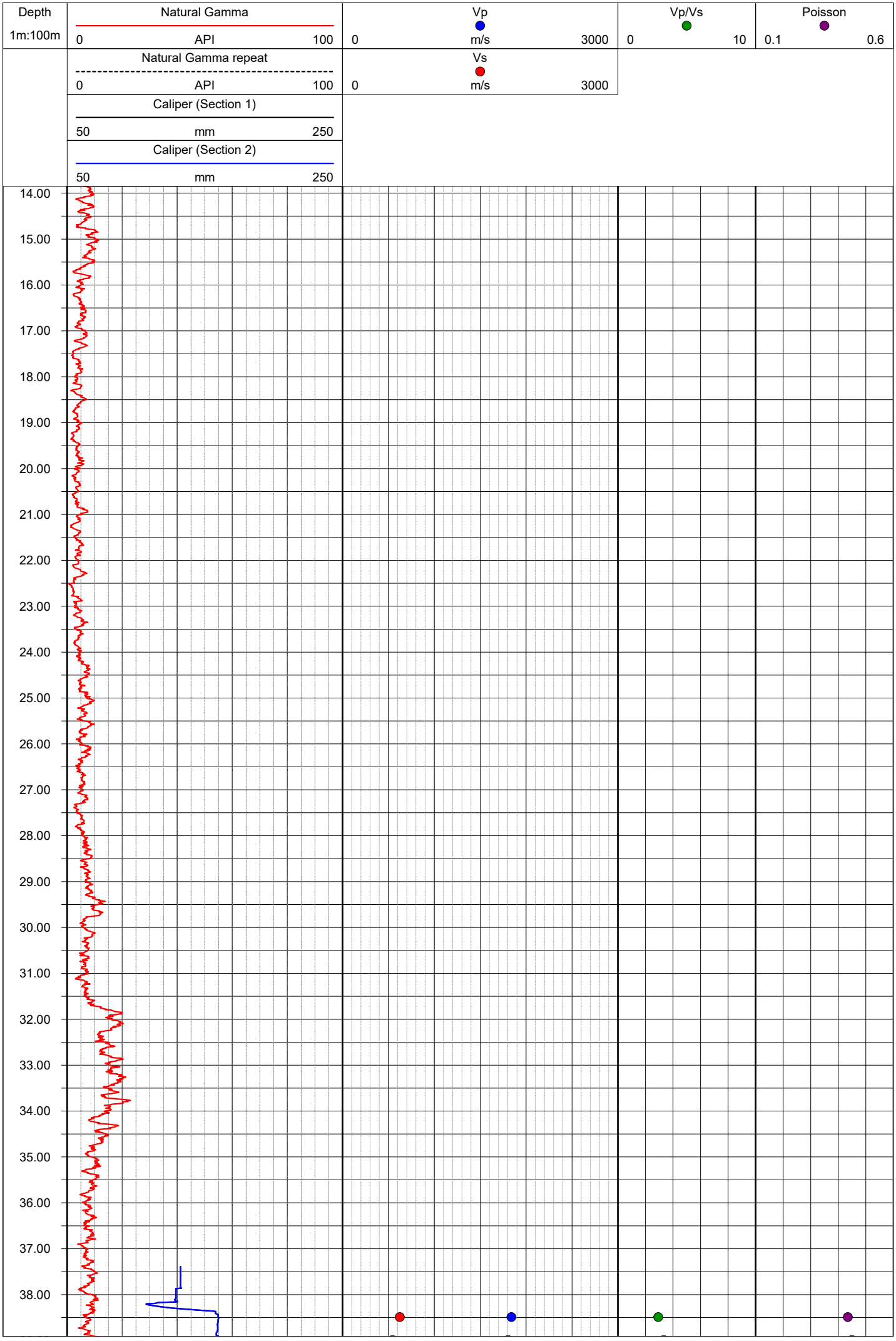
Vp: 0 m/s 3000

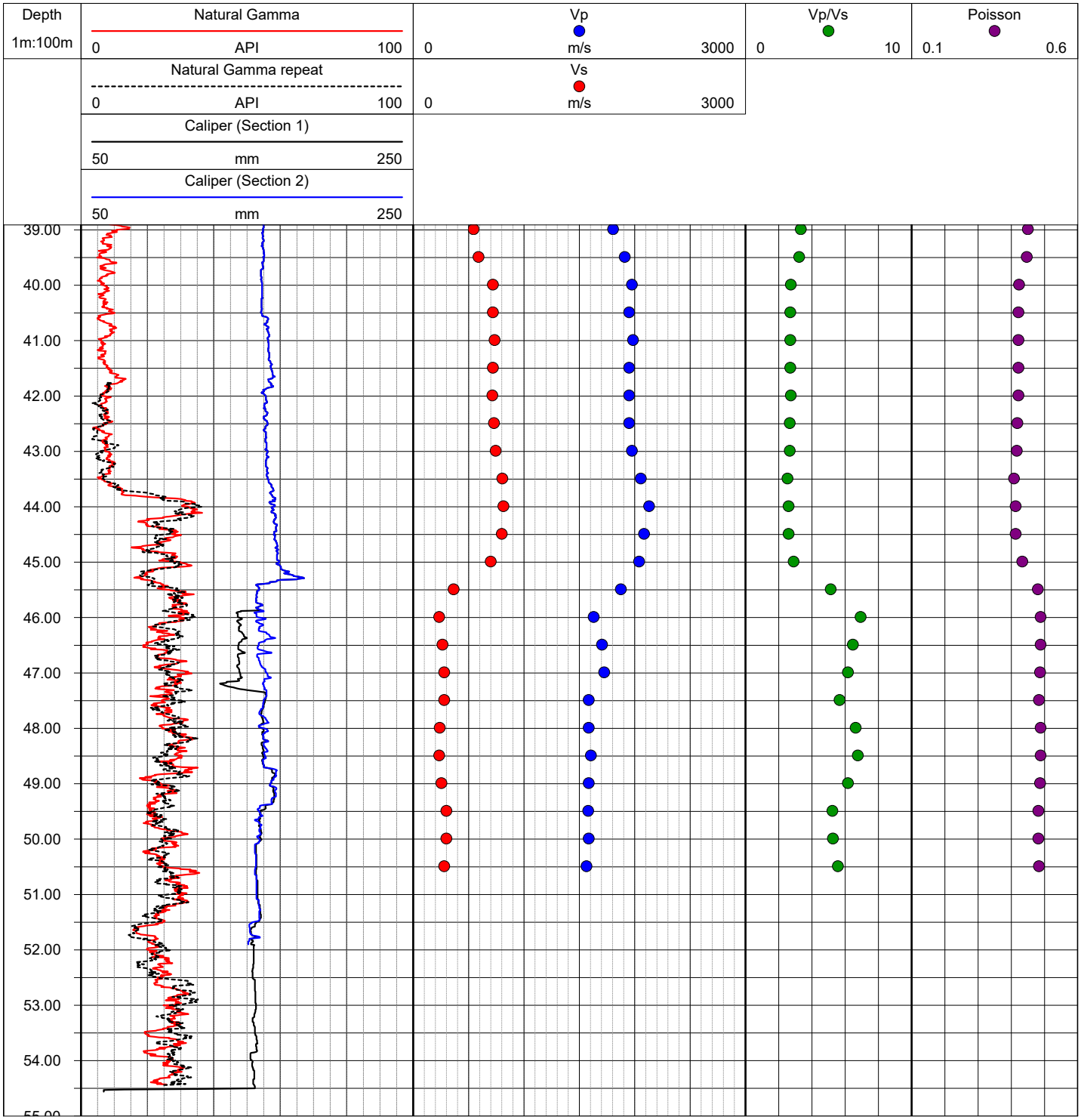
Vs: 0 m/s 3000

Vp/Vs: 0 10

Poisson: 0.1 0.6




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00
38.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

IT2_SPT_02 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
	Borehole: IT2_SPT_03	Fugro Site Manager: Colin Mulvey, Callum Murphy	08/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 650832.02 N: 264252.10	Grid Reference: OSGB 1936	Elevation: -14.27 mOD
Borehole Depth (Drilling): 55.50 m		Recorded By: Sz. Boncz	Processed By: Sz. Boncz
Borehole Depth (Wireline): 55.07 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 55.07 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 2 sections.	
Fluid Level: sea level			

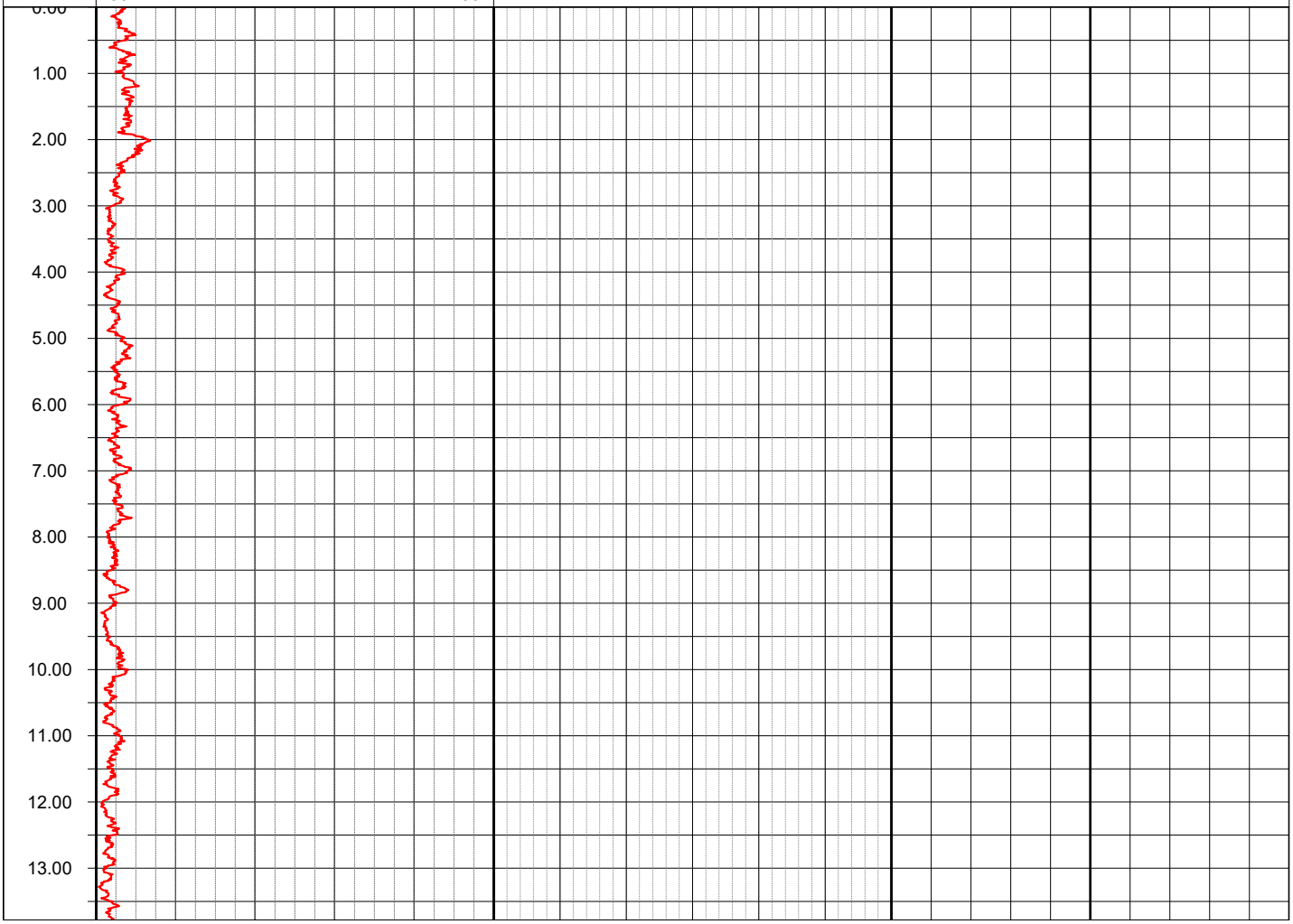
BOREHOLE RECORD (DRILLING)

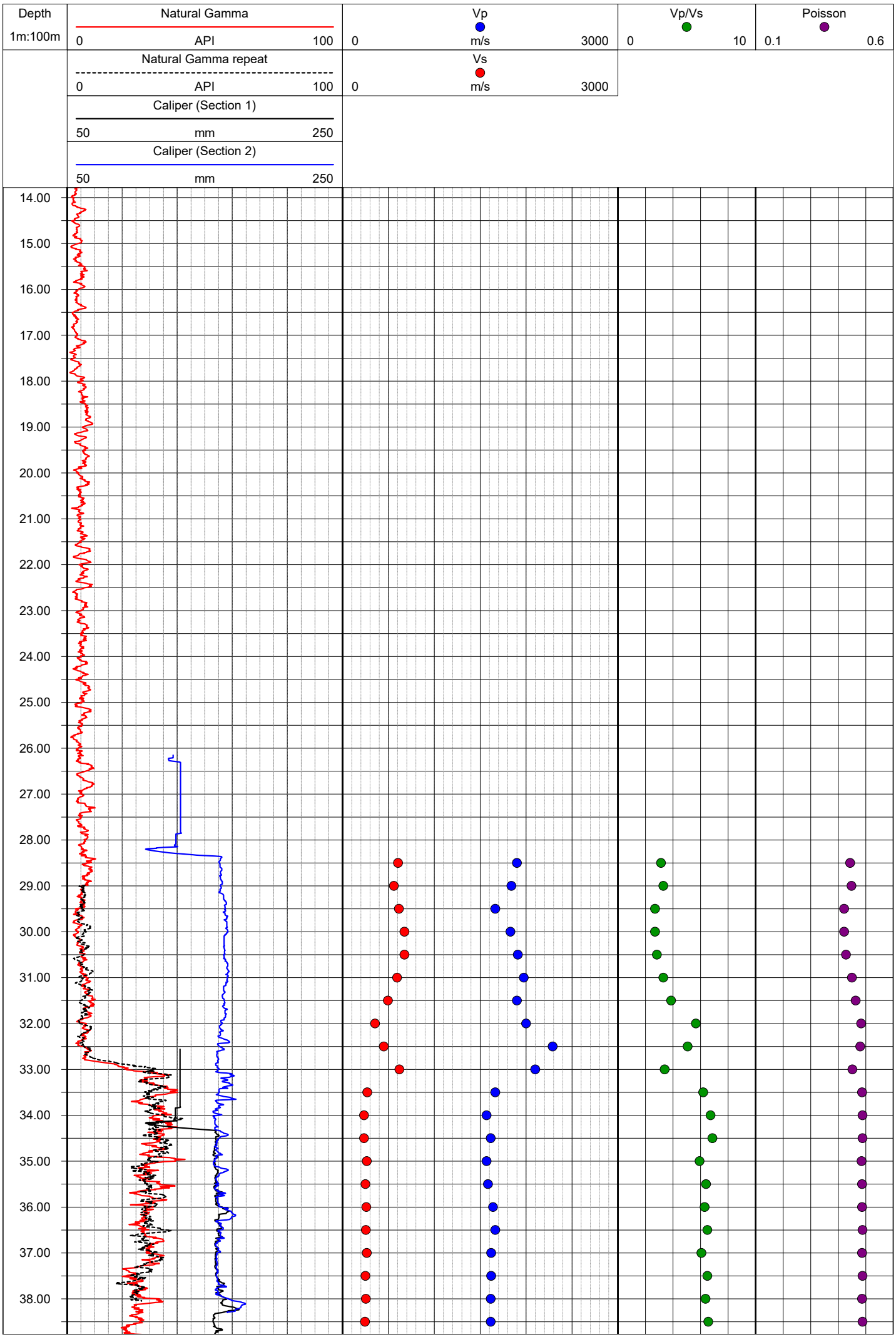
Bit Diameter:	From:	To:
146 mm	0.00 m	55.50 m

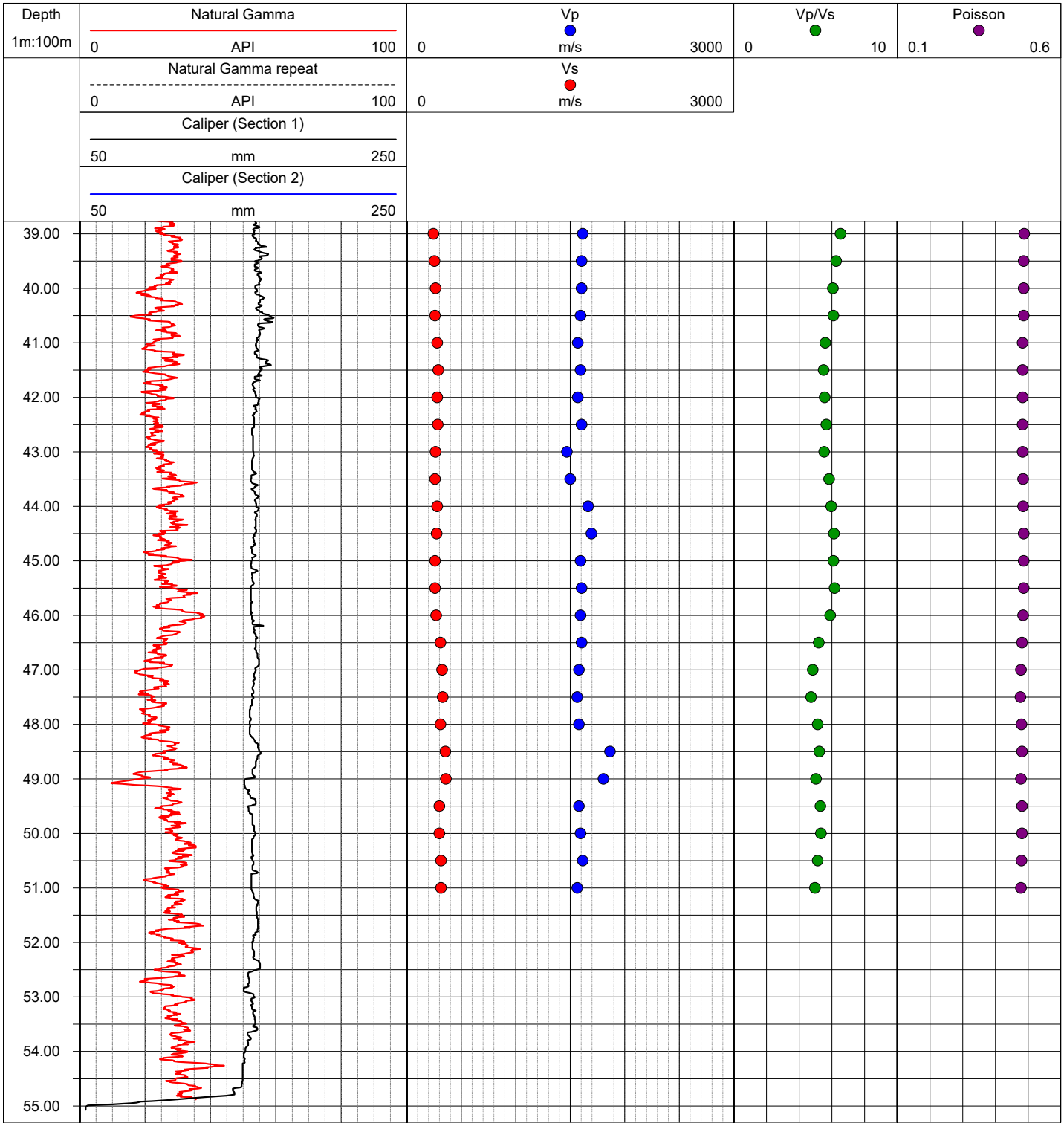
CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-24.60 m	1.50 m
Steel	178 mm	-24.90 m	18.00 m
Steel (NG in casing)	146 mm	-25.50 m	55.50 m

Depth 1m:100m	Natural Gamma 0 API 100	Vp 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6
	Natural Gamma repeat 0 API 100	Vs 0 m/s 3000		
	Caliper (Section 1) 50 mm 250			
	Caliper (Section 2) 50 mm 250			




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00
38.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00

IT2_SPT_03 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

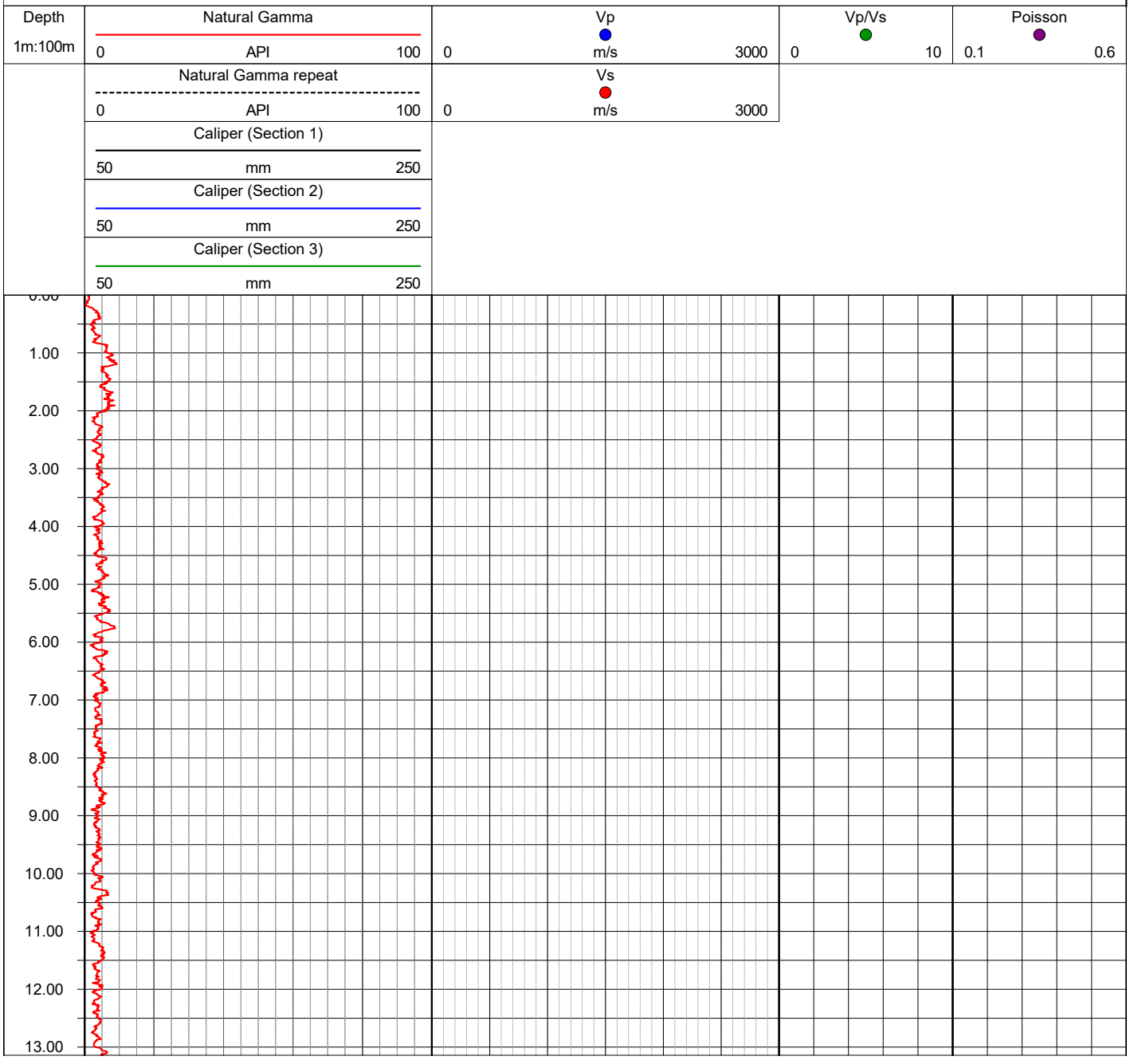
FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**
	Client: EDF Energy	Client Representative: Vernacio Carrillo — Logging Date:
	Borehole: IT2_SPT_04	Fugro Site Manager: Colin Mulvey, Callum Murphy — 21/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650928.01 N: 264250.48	Grid Reference: OSGB 1936 — Elevation: -14.30 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: E. Cox, W. Cuthbertson — Processed By: E. Cox, W. Cuthbertson
Borehole Depth (Wireline): 54.82 m		Remarks:
Logging Datum: mud level		
Logged Interval: 0.00 m - 54.82 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 3 sections.
Fluid Level: sea level		

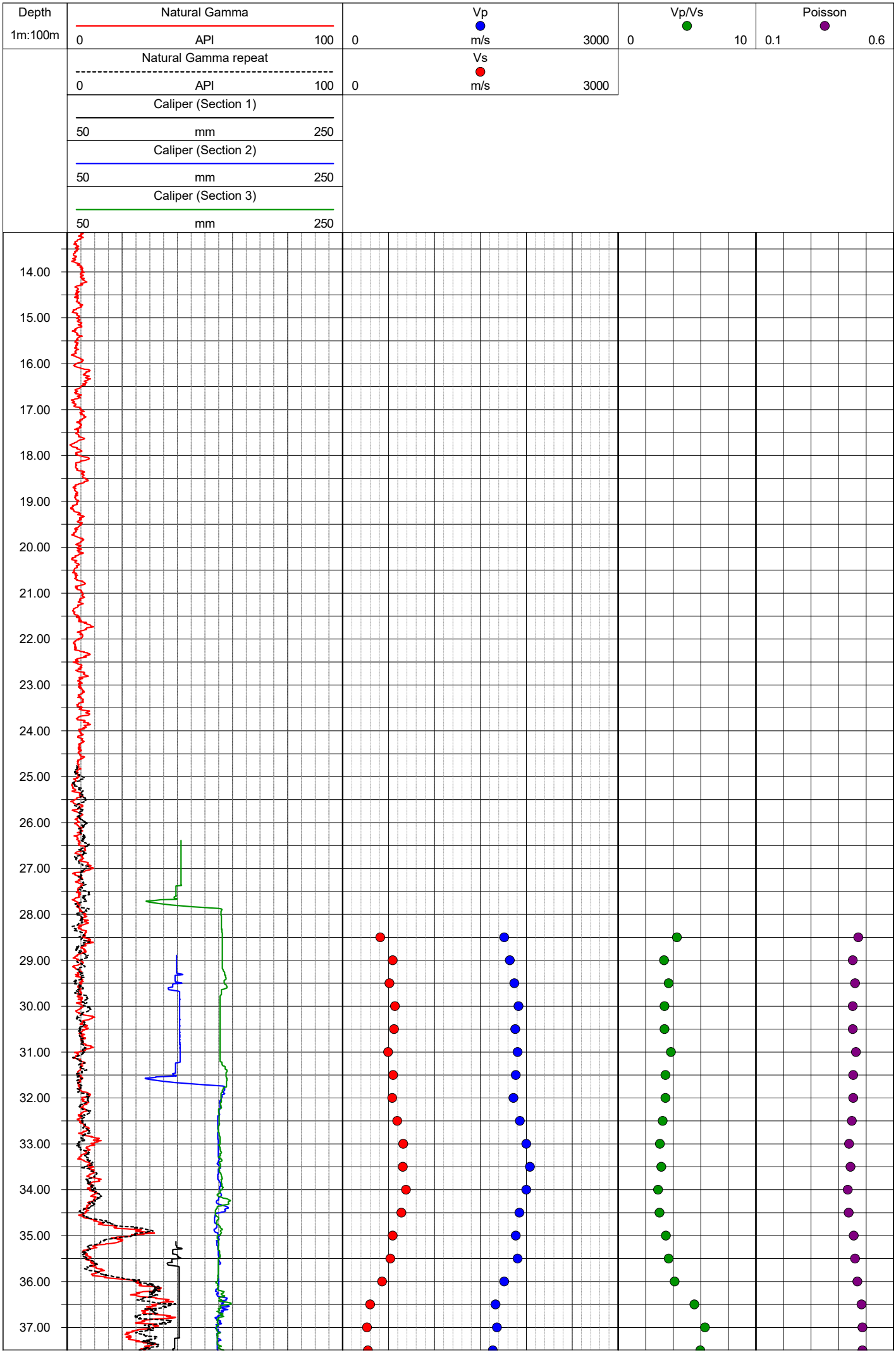
BOREHOLE RECORD (DRILLING)

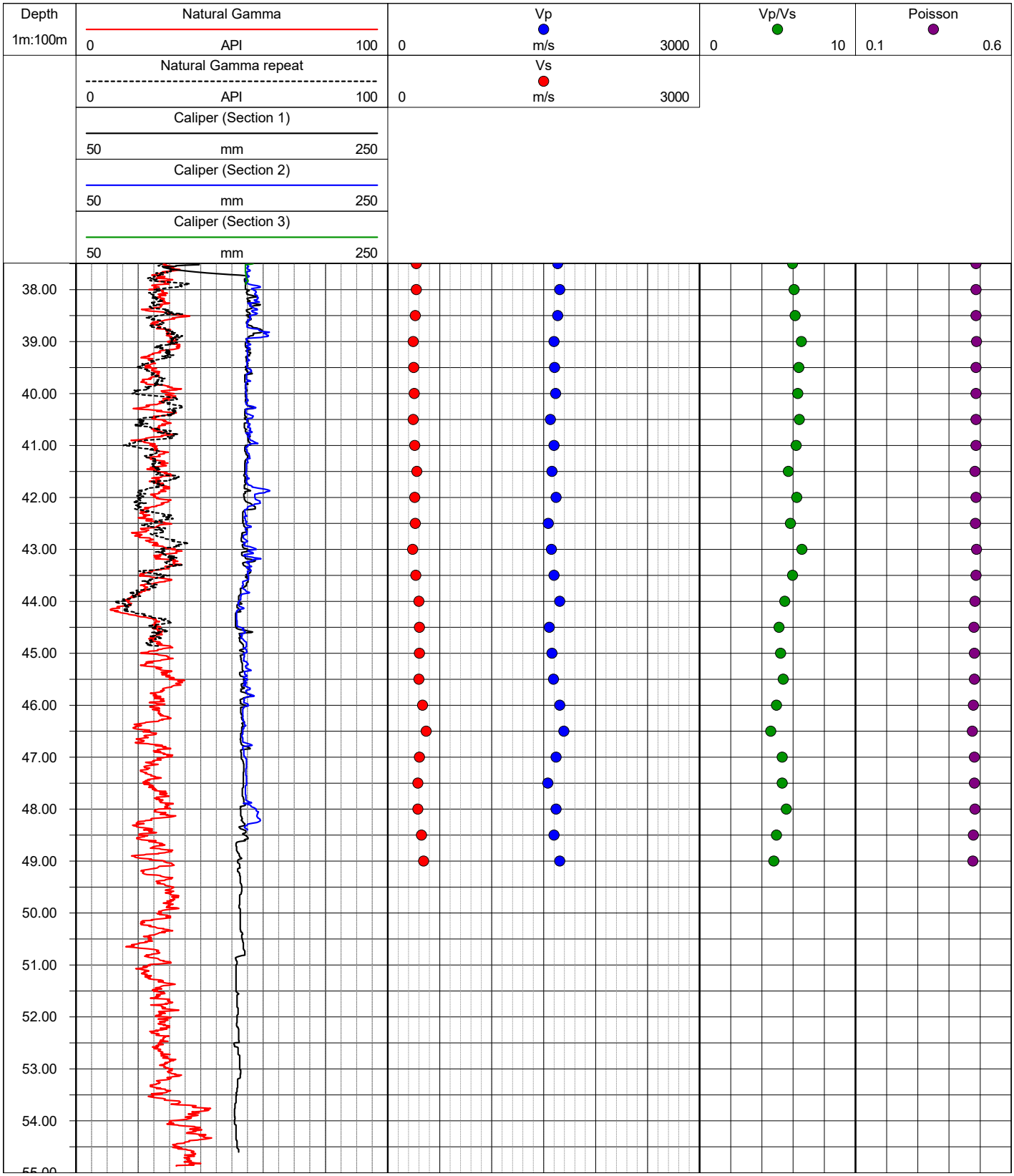
Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-24.50 m	2.00 m
Steel	178 mm	-24.50 m	26.40 m
Steel (NG in casing)	146 mm	-25.40 m	55.00 m




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

IT2_SPT_04 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Vernacio Carrillo	Logging Date:
	Borehole: OT_SPT_01	Fugro Site Manager: Colin Mulvey, Callum Murphy	13/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 648733.79 N: 264095.08	Grid Reference: OSGB 1936	Elevation: -10.14 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: L. Pal, E. Cox	Processed By: L. Pal, E. Cox
Borehole Depth (Wireline): 54.52 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 54.52 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections.	
Fluid Level: sea level			

BOREHOLE RECORD (DRILLING)

Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-20.20 m	0.80 m
Steel	178 mm	-20.46 m	20.20 m
Steel (NG in casing)	146 mm	-21.23 m	55.00 m

Depth 1m:100m

Natural Gamma: 0 API 100

Natural Gamma repeat: 0 API 100

Caliper (Section 1): 50 mm 250

Caliper (Section 2): 50 mm 250

Caliper (Section 3): 50 mm 250

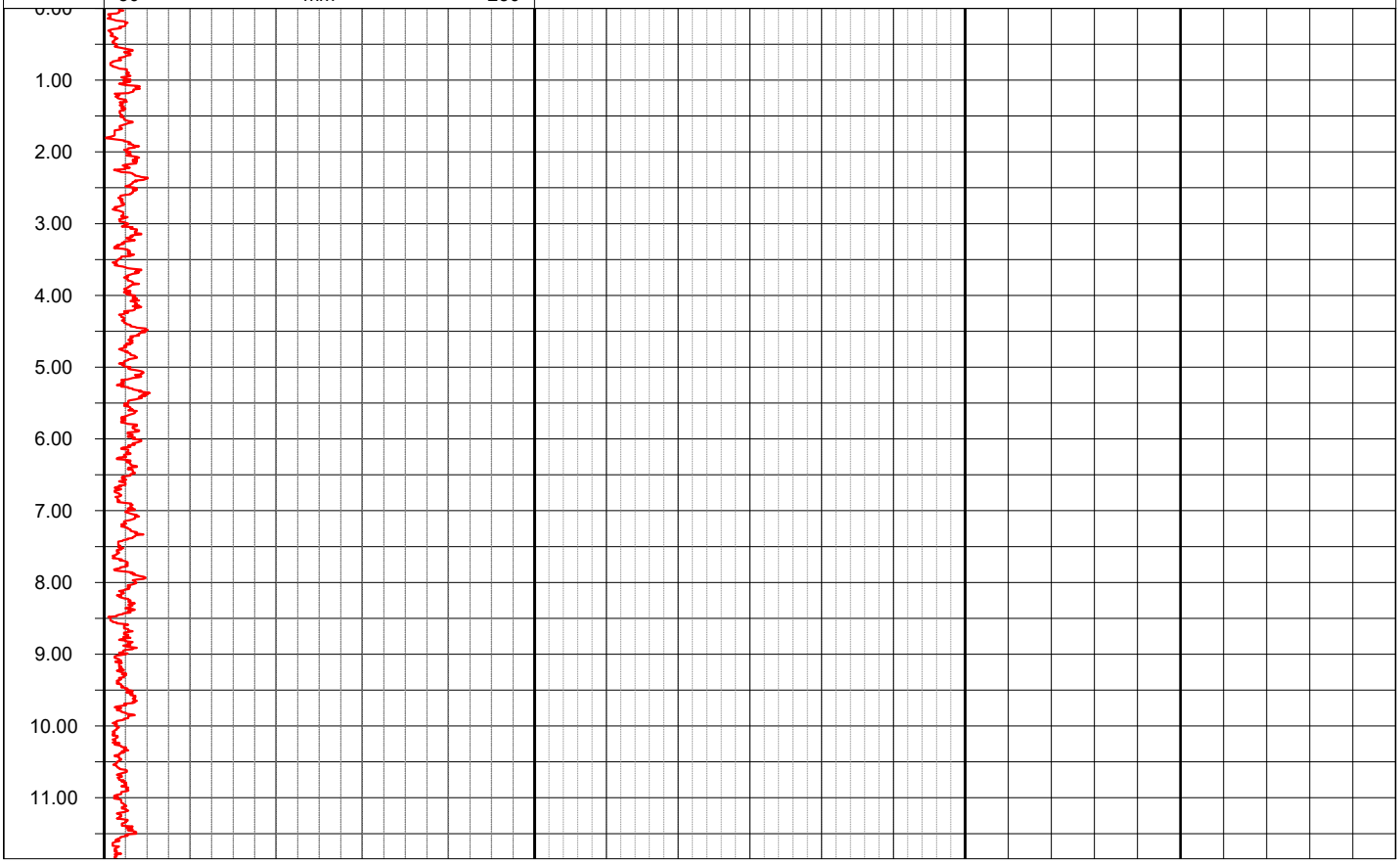
Caliper (Section 4): 50 mm 250

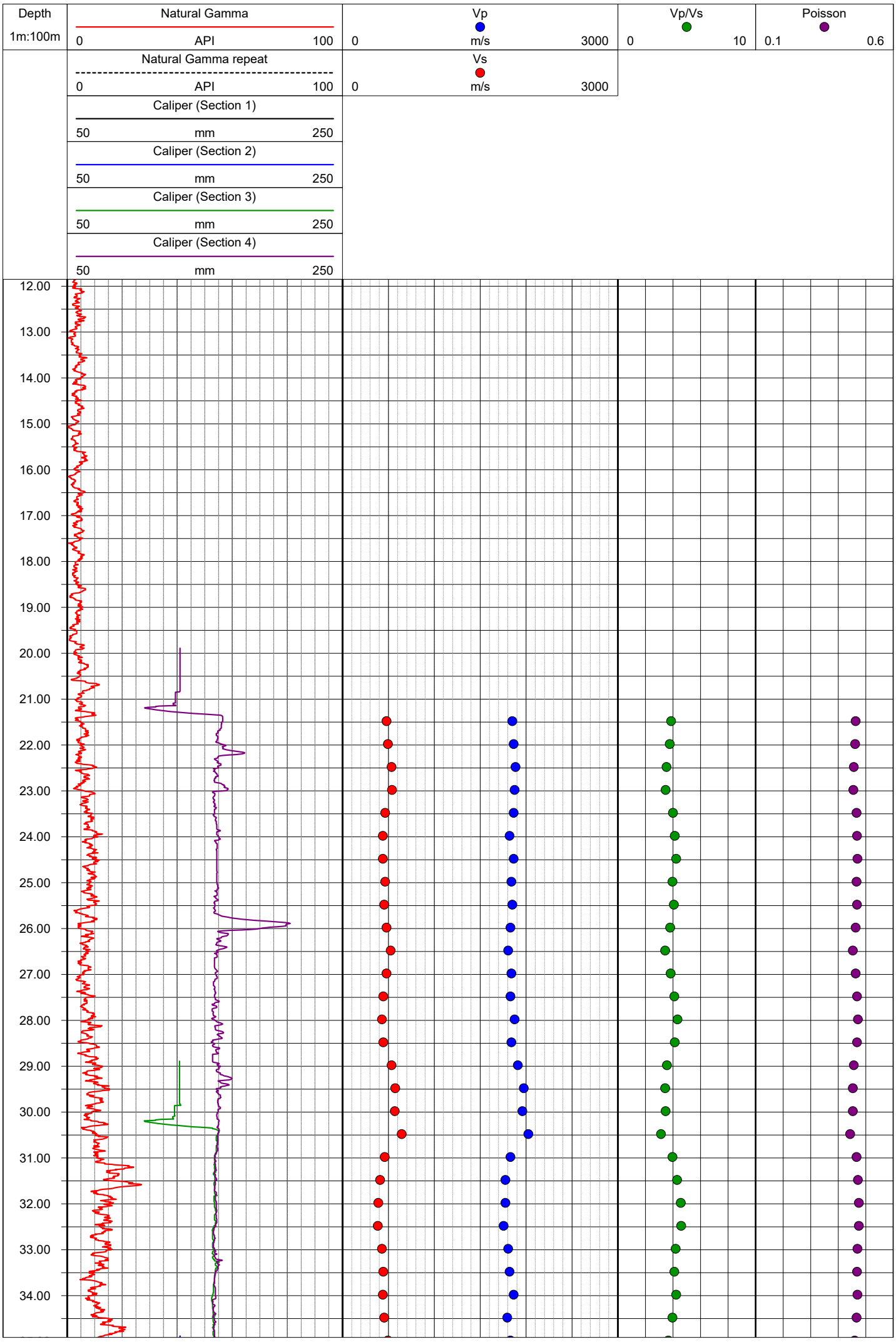
Vp: 0 m/s 3000

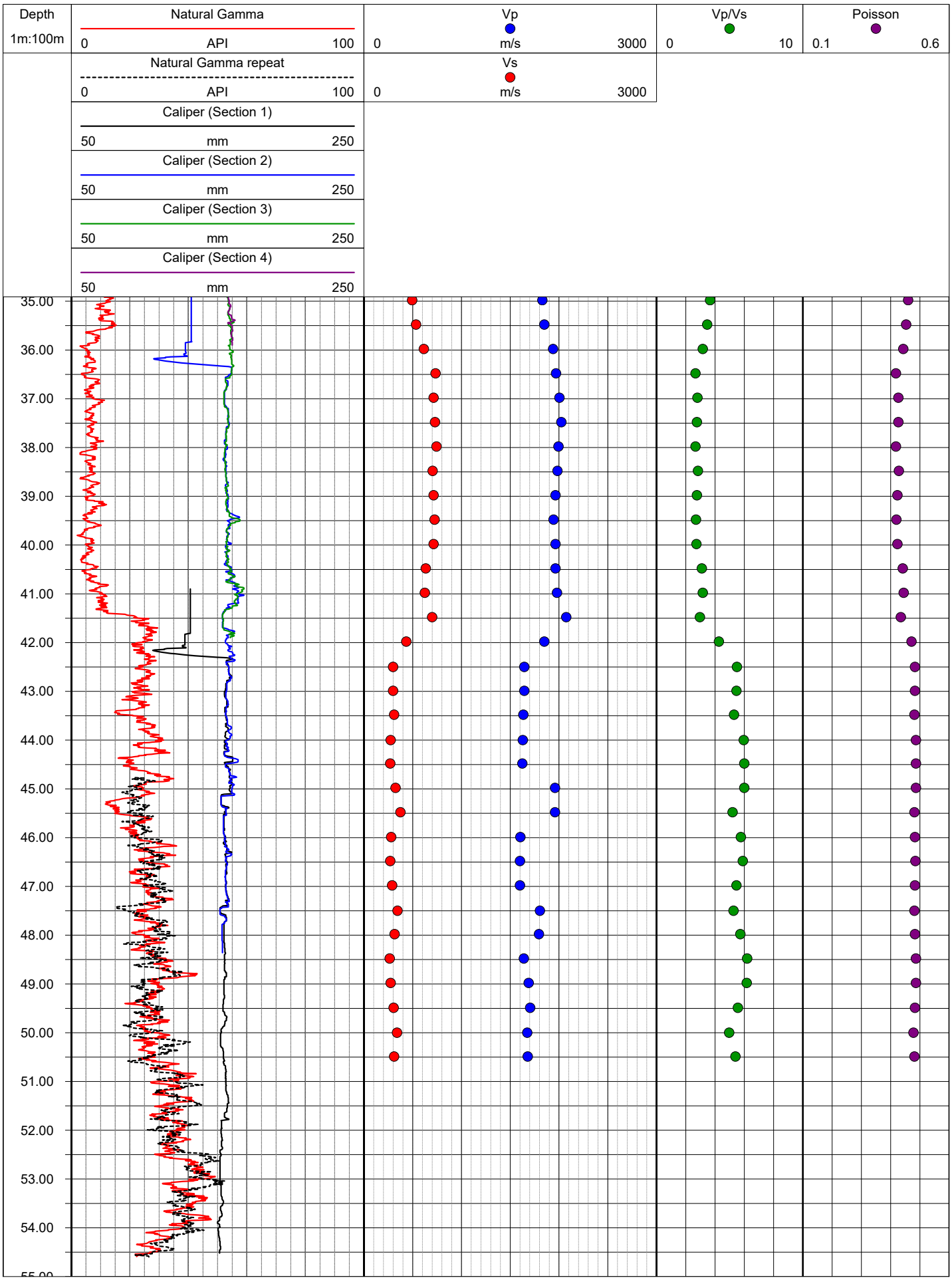
Vs: 0 m/s 3000

Vp/Vs: 0 10

Poisson: 0.1 0.6




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Caliper (Section 4)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
35.00
36.00
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

OT_SPT_01 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

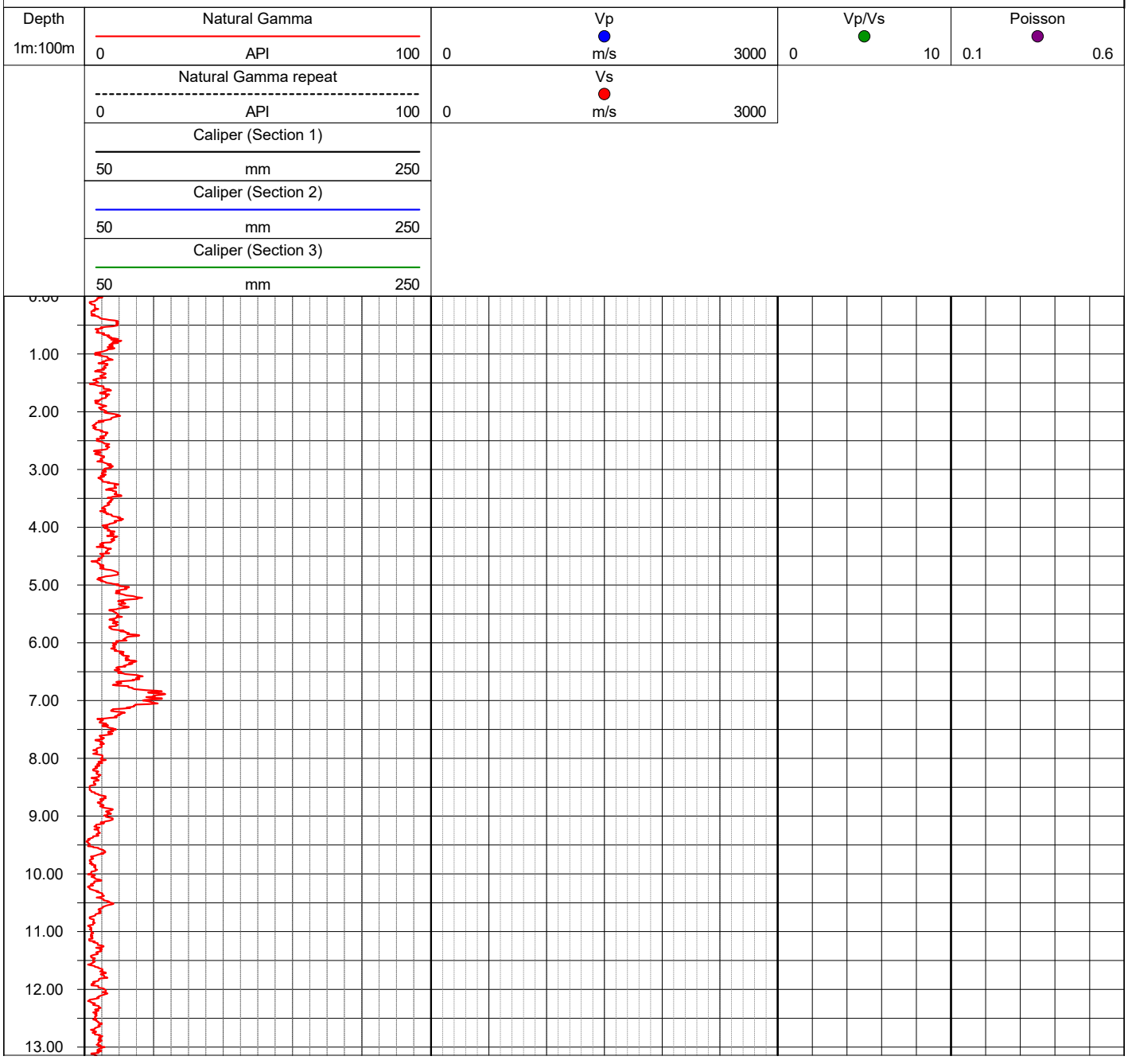
FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**
	Client: EDF Energy	Client Representative: Vernacio Carrillo, Bertrand Andral — Logging Date:
	Borehole: OT_SPT_02	Fugro Site Manager: Colin Mulvey, Callum Murphy — 16/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 649335.80 N: 264098.13	Grid Reference: OSGB 1936 — Elevation: -7.93 mOD
Borehole Depth (Drilling): 55.00 m		Recorded By: L. Pal — Processed By: L. Pal, E. Cox
Borehole Depth (Wireline): 54.69 m		Remarks:
Logging Datum: mud level		Natural Gamma was logged in steel casing. PS Logging was carried out in 2 sections. In the 3rd Section, Caliper tool could not go deeper then 24.10 m depth. Borehole collapsed. CAL3 was measured from 24.00 m to 20.00 m. Decision was made to abandon borehole and move to the next position.
Logged Interval: 0.00 m - 54.69 m		
Fluid Level: sea level		

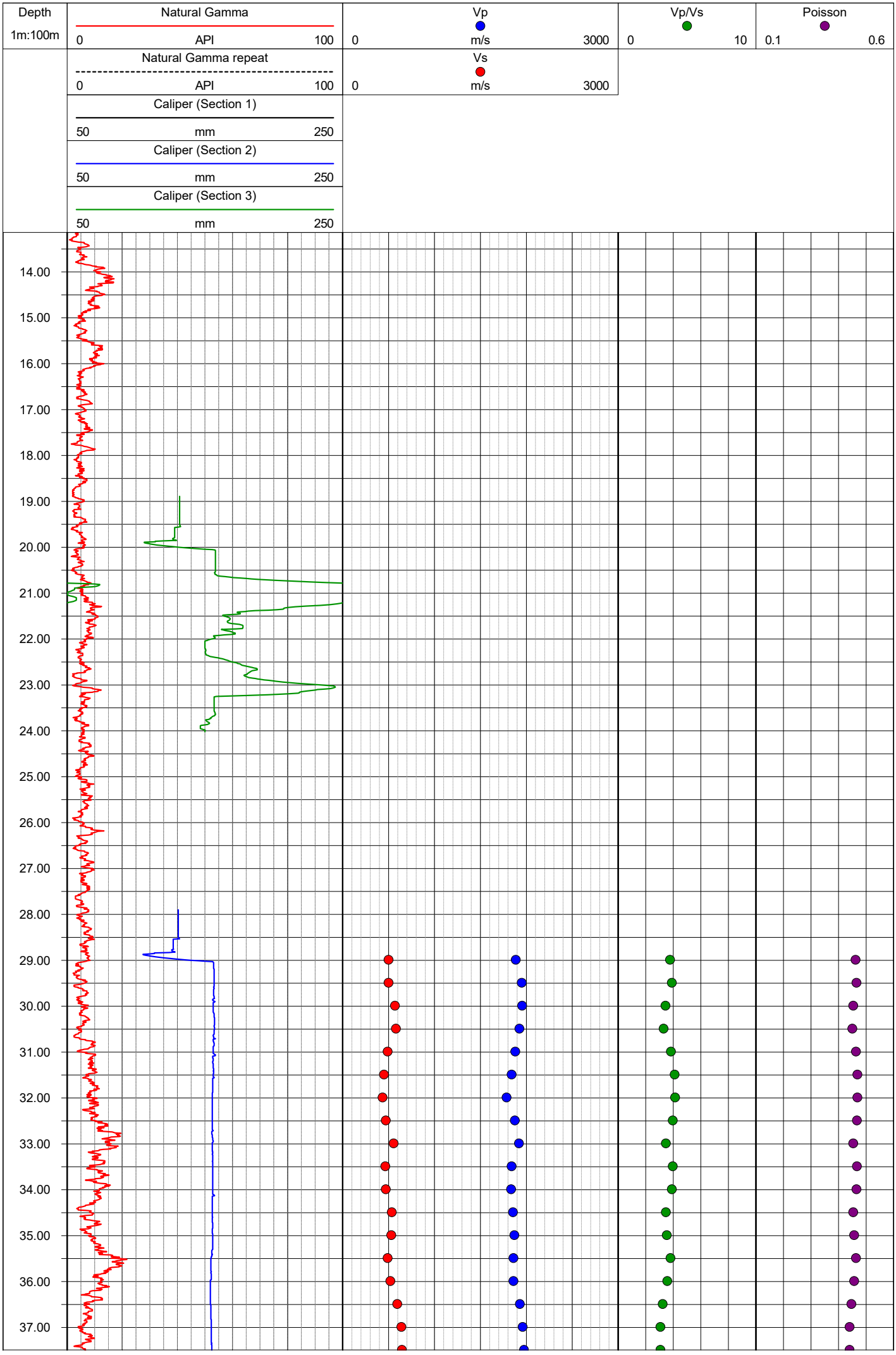
BOREHOLE RECORD (DRILLING)

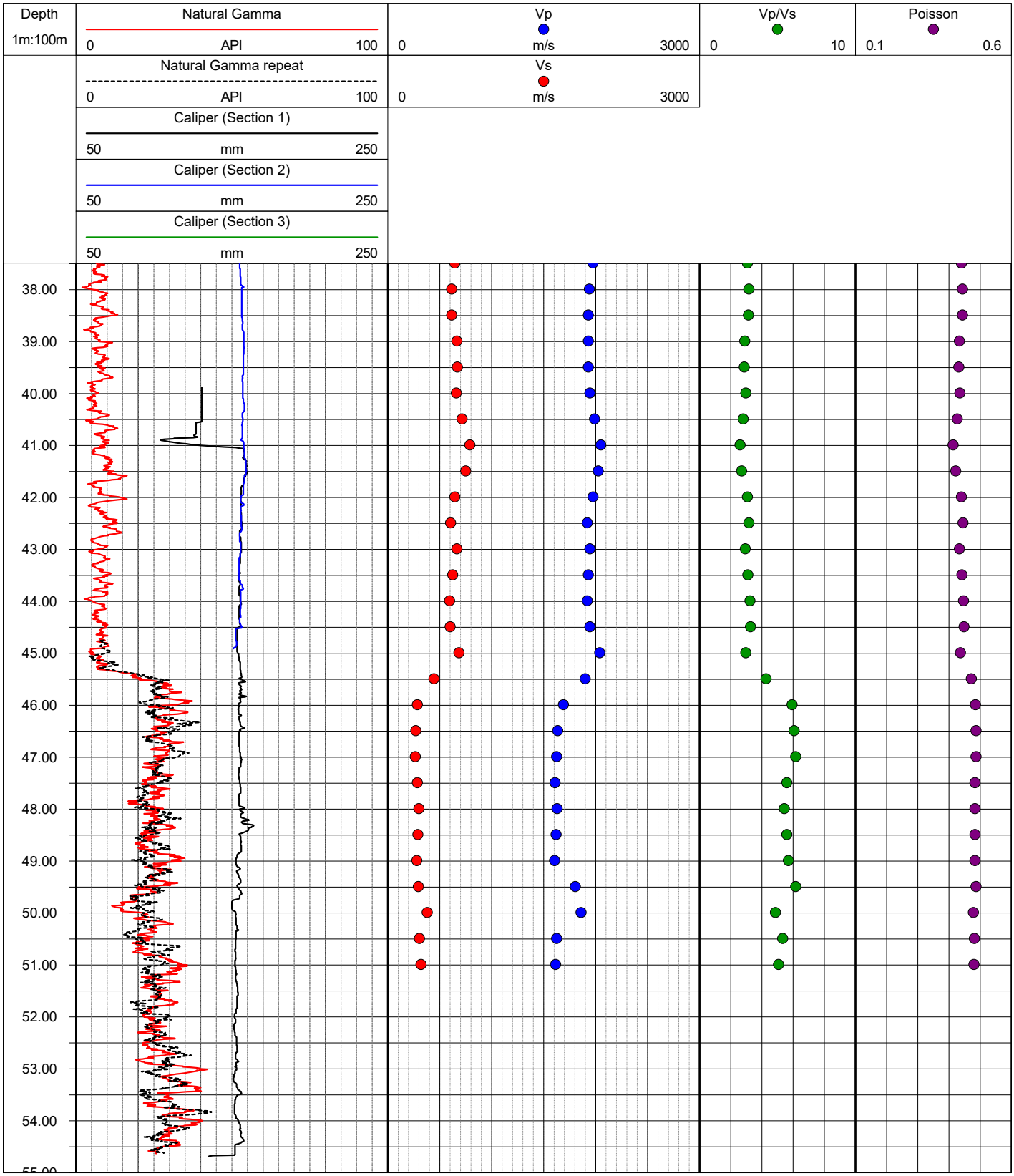
Bit Diameter:	From:	To:
146 mm	0.00 m	55.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-18.20 m	0.80 m
Steel	178 mm	-18.46 m	20.70 m
Steel (NG in casing)	146 mm	-18.98 m	55.00 m




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

OT_SPT_02 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

WIRELINE GEOPHYSICAL LOG

Type: **Acoustic Televiewer Log**

Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
Borehole: OT_SPT_03	Fugro Site Manager: Julian North, Daryl Brooks	11-12/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650388.42 N: 264104.87	Grid Reference: OSGB 1936 Elevation: -7.90 mOD
Borehole Depth (Drilling): 110.00 m		Recorded By: L. Pal, Sz. Boncz Processed By: L. Pal, Sz. Boncz
Borehole Depth (Wireline): 109.74 m		Remarks:
Logging Datum: mud level		ABI Logging was carried out in 3 sections. No ABI data between 73.70 m and 63.15 m due to borehole collapse.
Logged Interval: 24.69 m - 109.47 m		
Fluid Level: sea level		

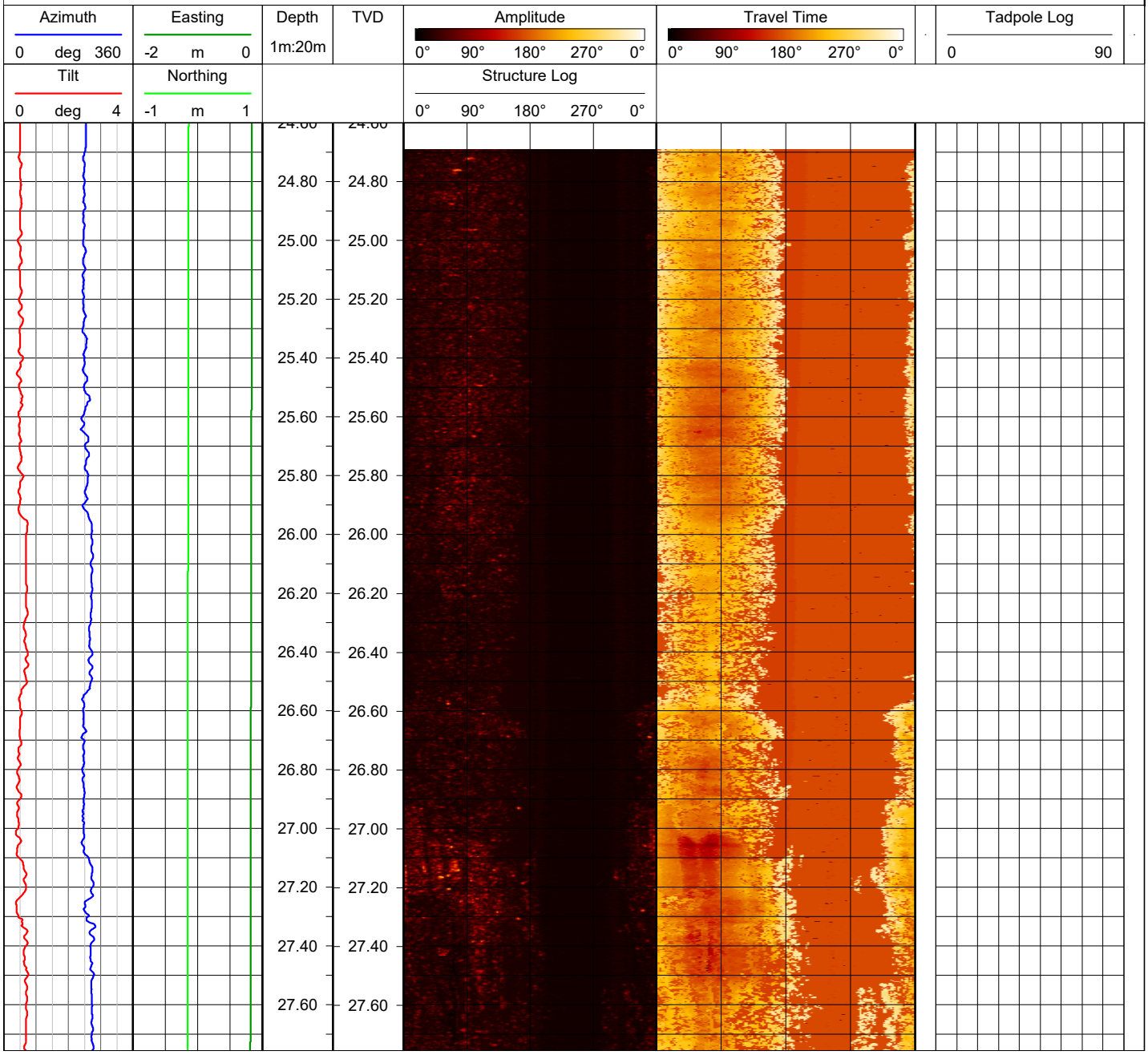
Tadpole	Sine Wave
	Major Fracture / Joint - open
	Minor Fracture / Joint - probably open
	Fracture / Joint - not further evaluable
	Fracture / Joint - infilled
	Bedding / Banding / Foliation / Lamination
	Unclassified
	Lithological boundary

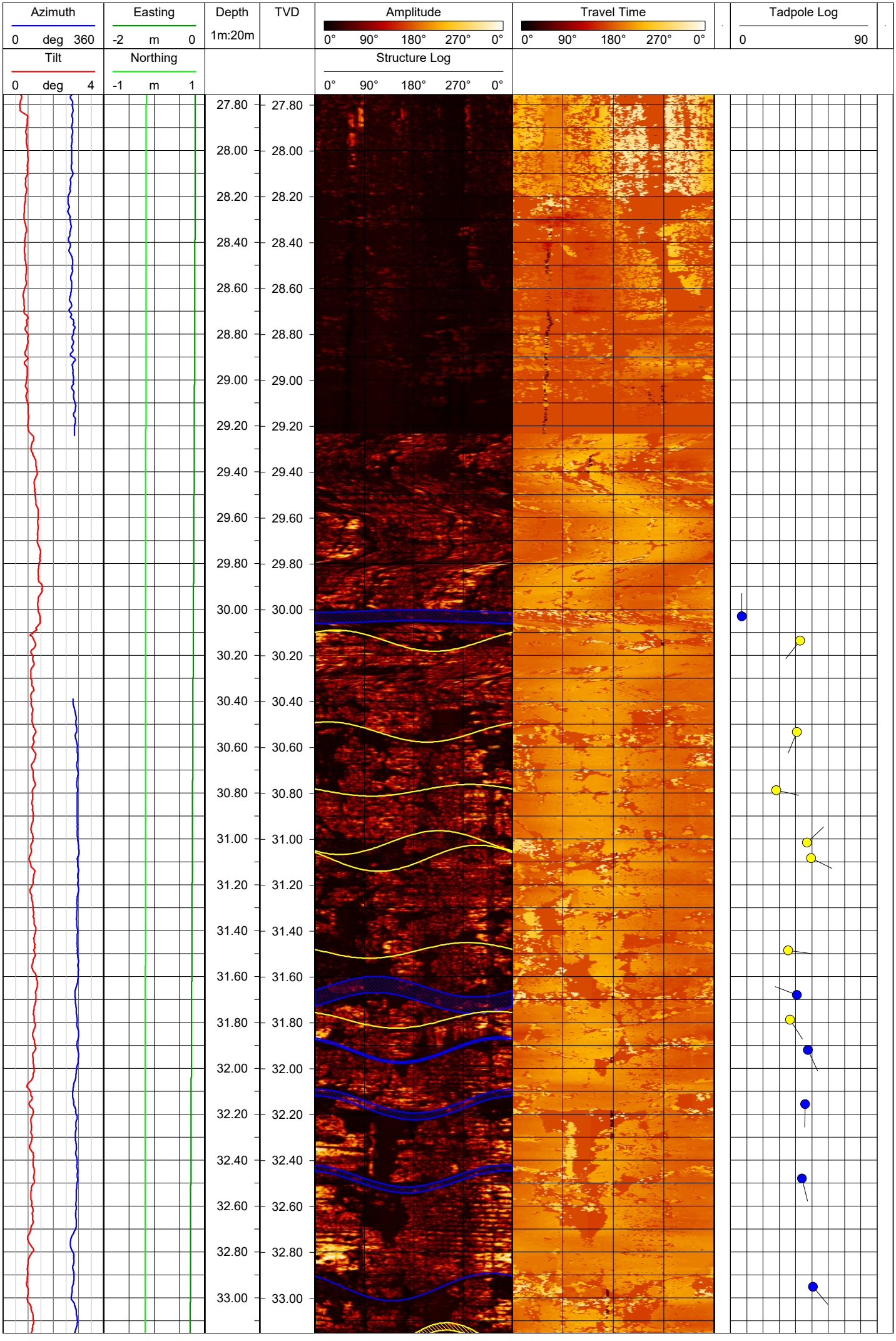
BOREHOLE RECORD (DRILLING)

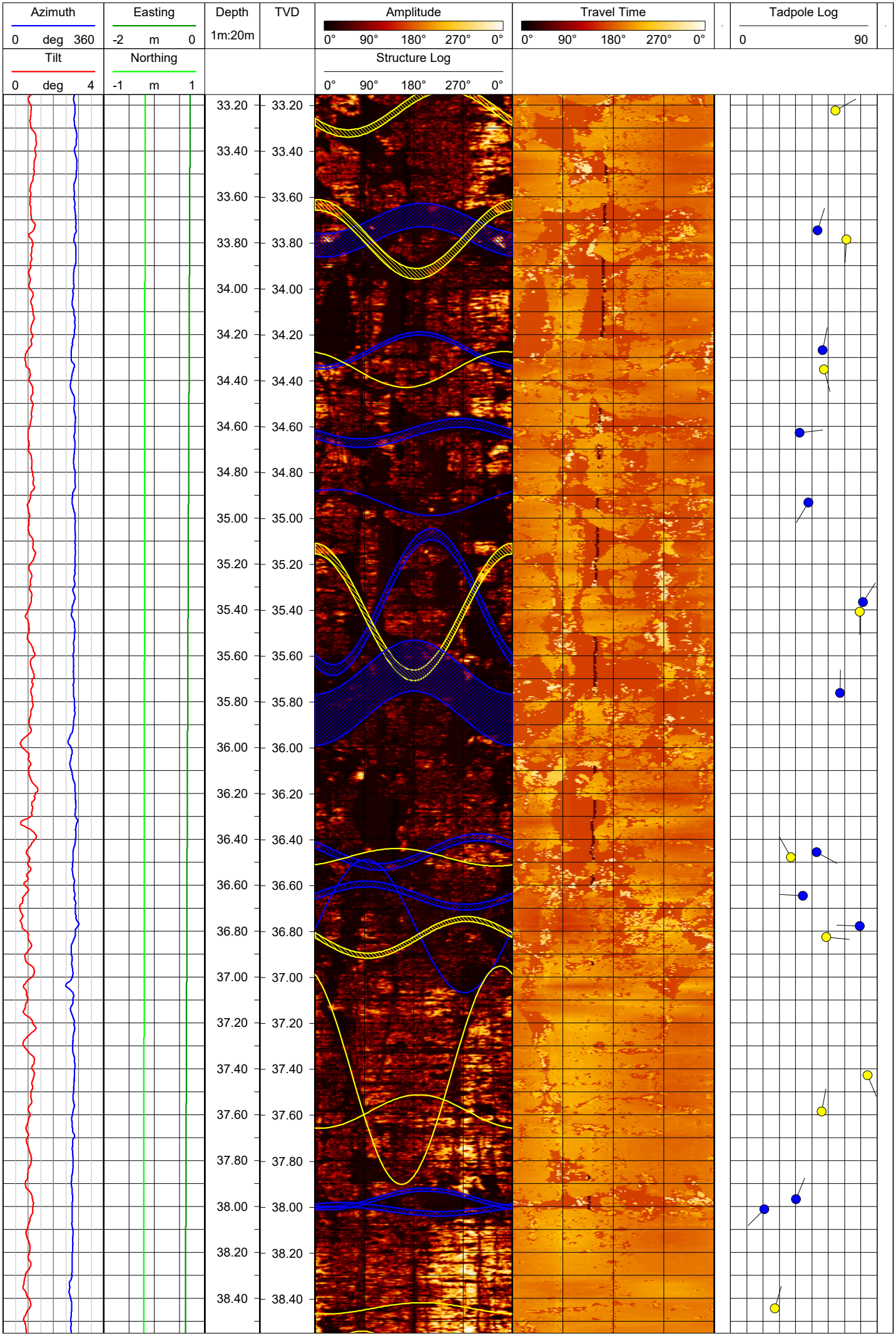
Bit Diameter:	From:	To:
146 mm	0.00 m	110.00 m

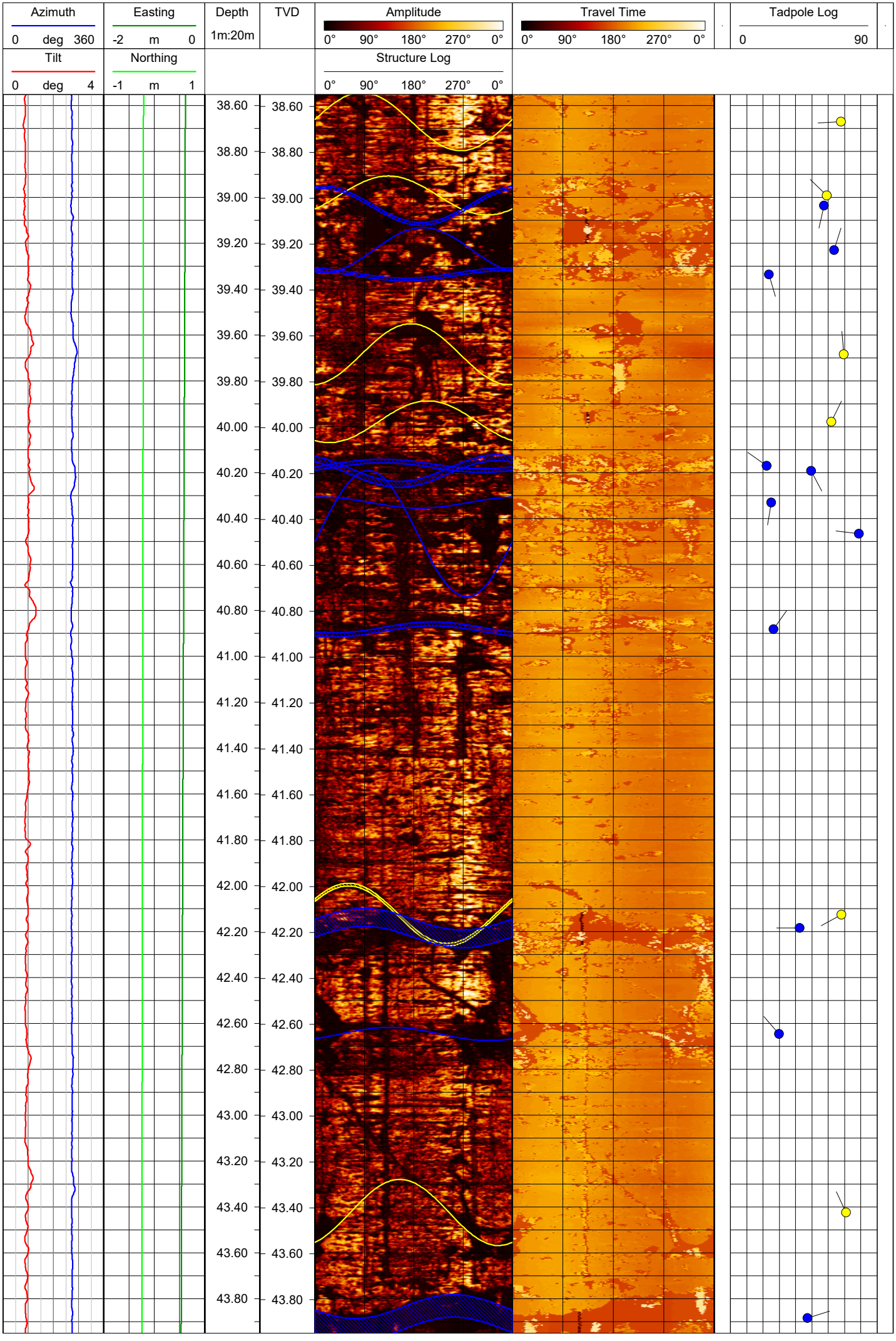
CASING RECORD (DRILLING)

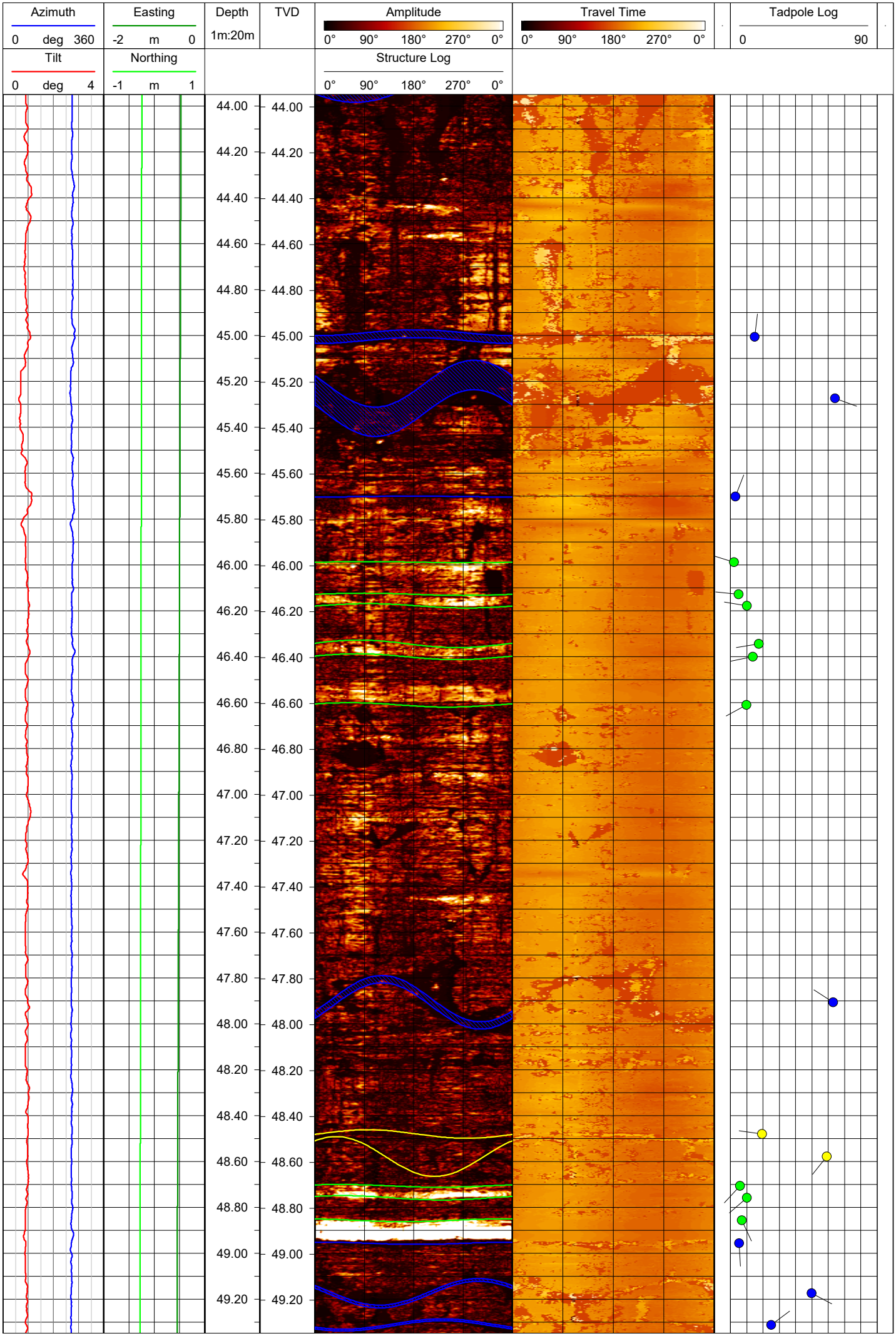
Type:	Size:	From:	To:
Steel	255 mm	-18.10 m	1.80 m
Steel	178 mm	-18.40 m	28.30 m
Steel (NG in casing)	146 mm	-19.00 m	110.00 m

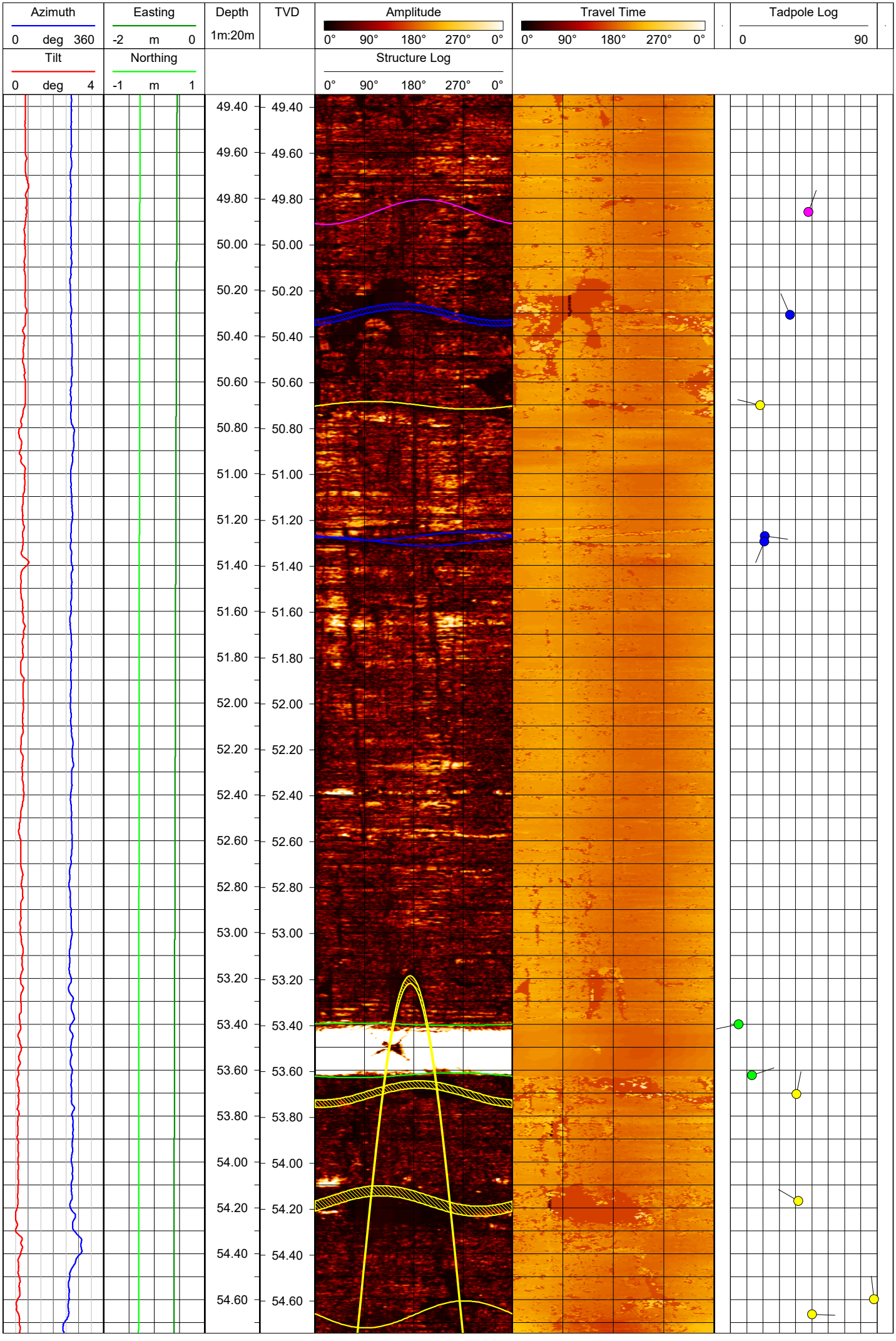


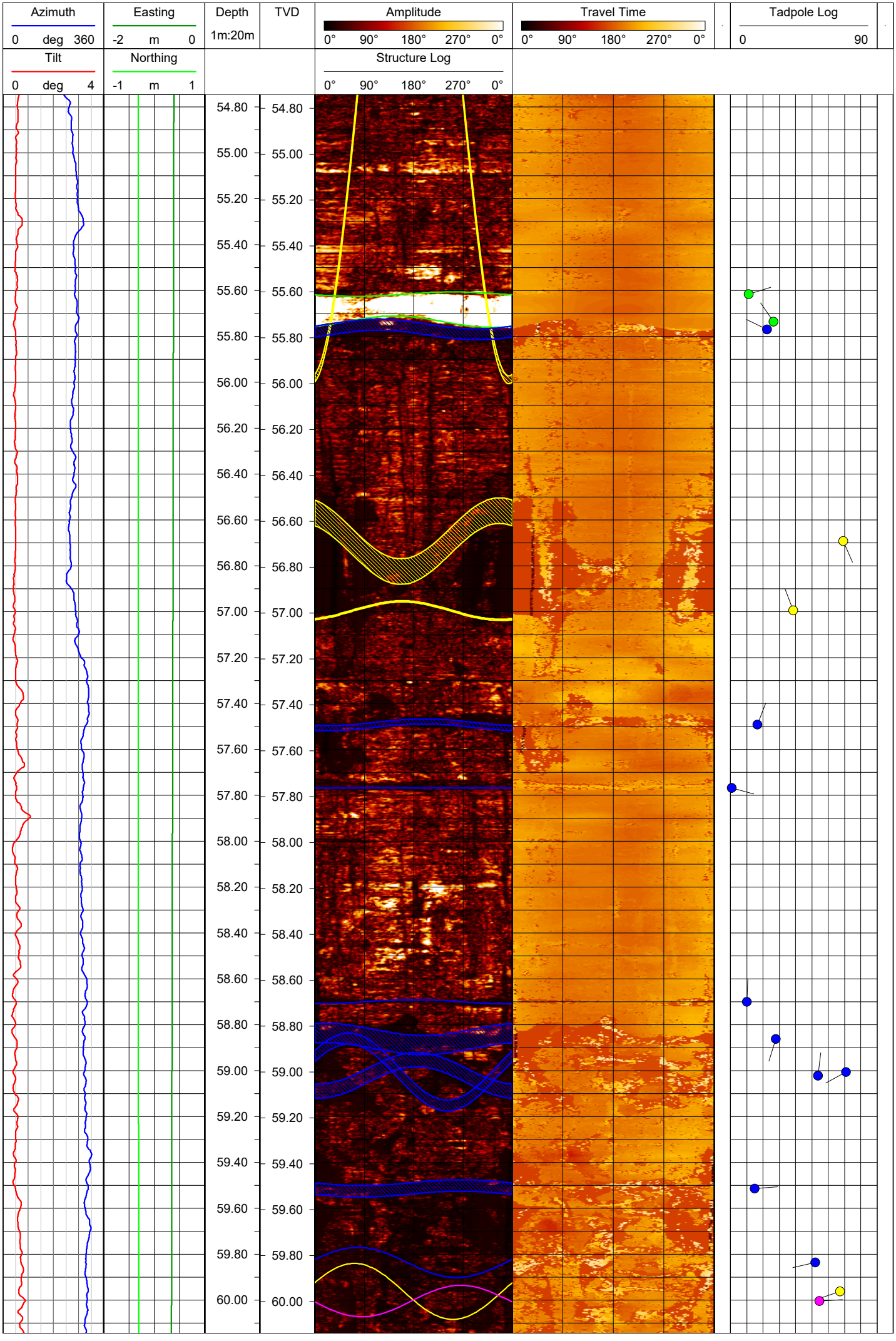

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
27.80
28.00
28.20
28.40
28.60
28.80
29.00
29.20
29.40
29.60
29.80
30.00
30.20
30.40
30.60
30.80
31.00
31.20
31.40
31.60
31.80
32.00
32.20
32.40
32.60
32.80
33.00


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
33.20
33.40
33.60
33.80
34.00
34.20
34.40
34.60
34.80
35.00
35.20
35.40
35.60
35.80
36.00
36.20
36.40
36.60
36.80
37.00
37.20
37.40
37.60
37.80
38.00
38.20
38.40


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
38.60
38.80
39.00
39.20
39.40
39.60
39.80
40.00
40.20
40.40
40.60
40.80
41.00
41.20
41.40
41.60
41.80
42.00
42.20
42.40
42.60
42.80
43.00
43.20
43.40
43.60
43.80


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
44.00
44.20
44.40
44.60
44.80
45.00
45.20
45.40
45.60
45.80
46.00
46.20
46.40
46.60
46.80
47.00
47.20
47.40
47.60
47.80
48.00
48.20
48.40
48.60
48.80
49.00
49.20

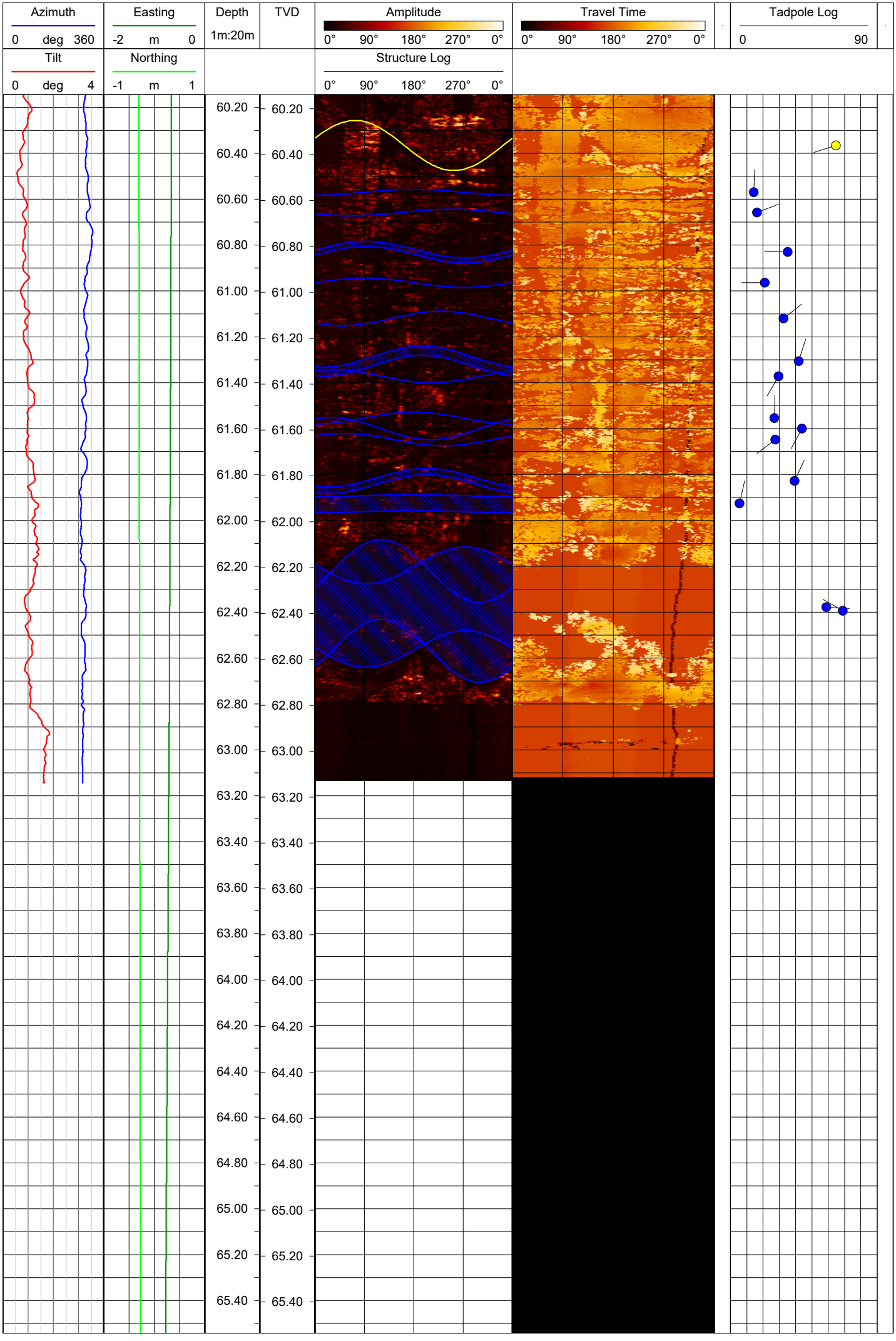

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
49.40
49.60
49.80
50.00
50.20
50.40
50.60
50.80
51.00
51.20
51.40
51.60
51.80
52.00
52.20
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53.00
53.20
53.40
53.60
53.80
54.00
54.20
54.40
54.60

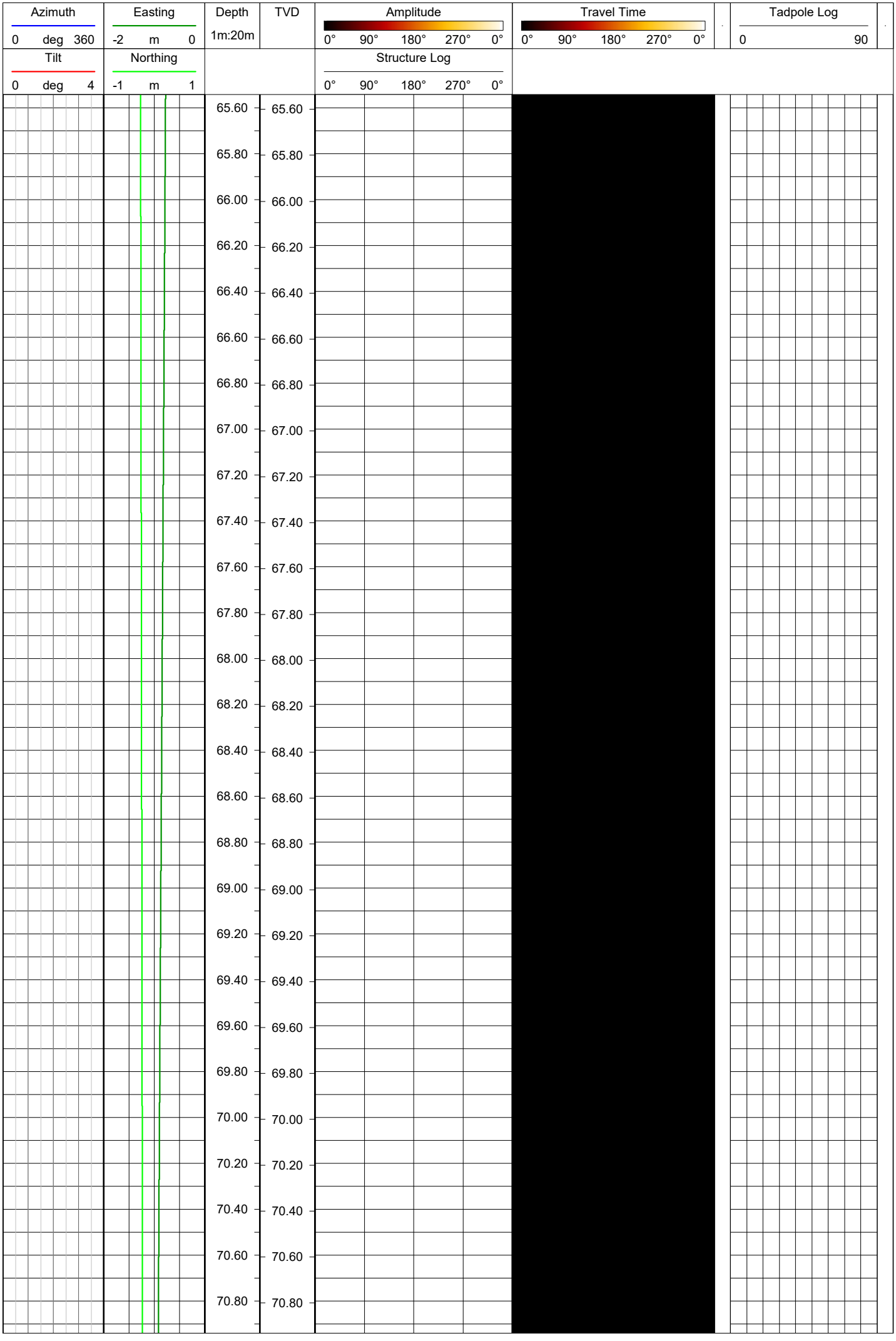

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
54.80
55.00
55.20
55.40
55.60
55.80
56.00
56.20
56.40
56.60
56.80
57.00
57.20
57.40
57.60
57.80
58.00
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58.40
58.60
58.80
59.00
59.20
59.40
59.60
59.80
60.00

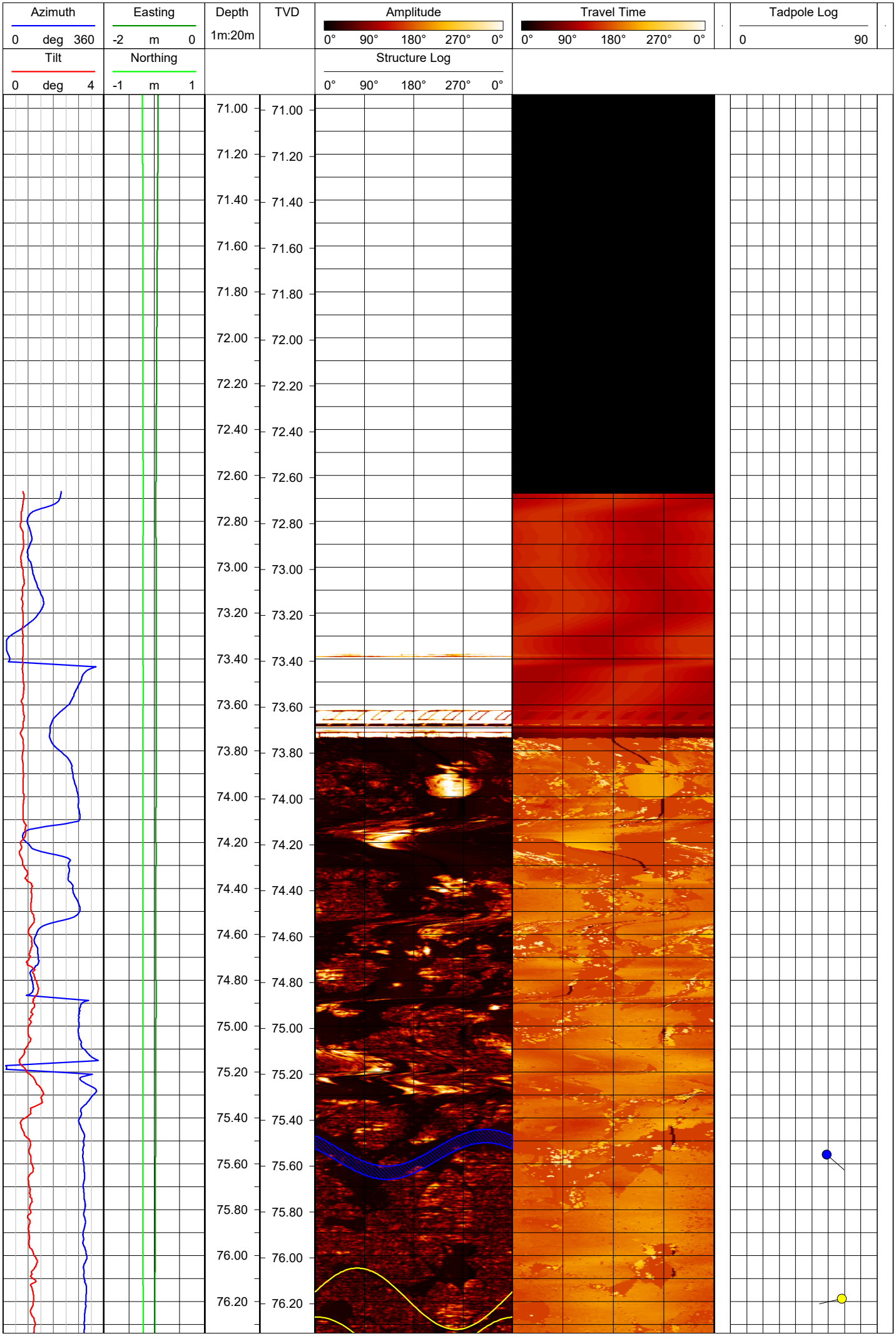
Appendix F – Ground Investigation Factual Reports

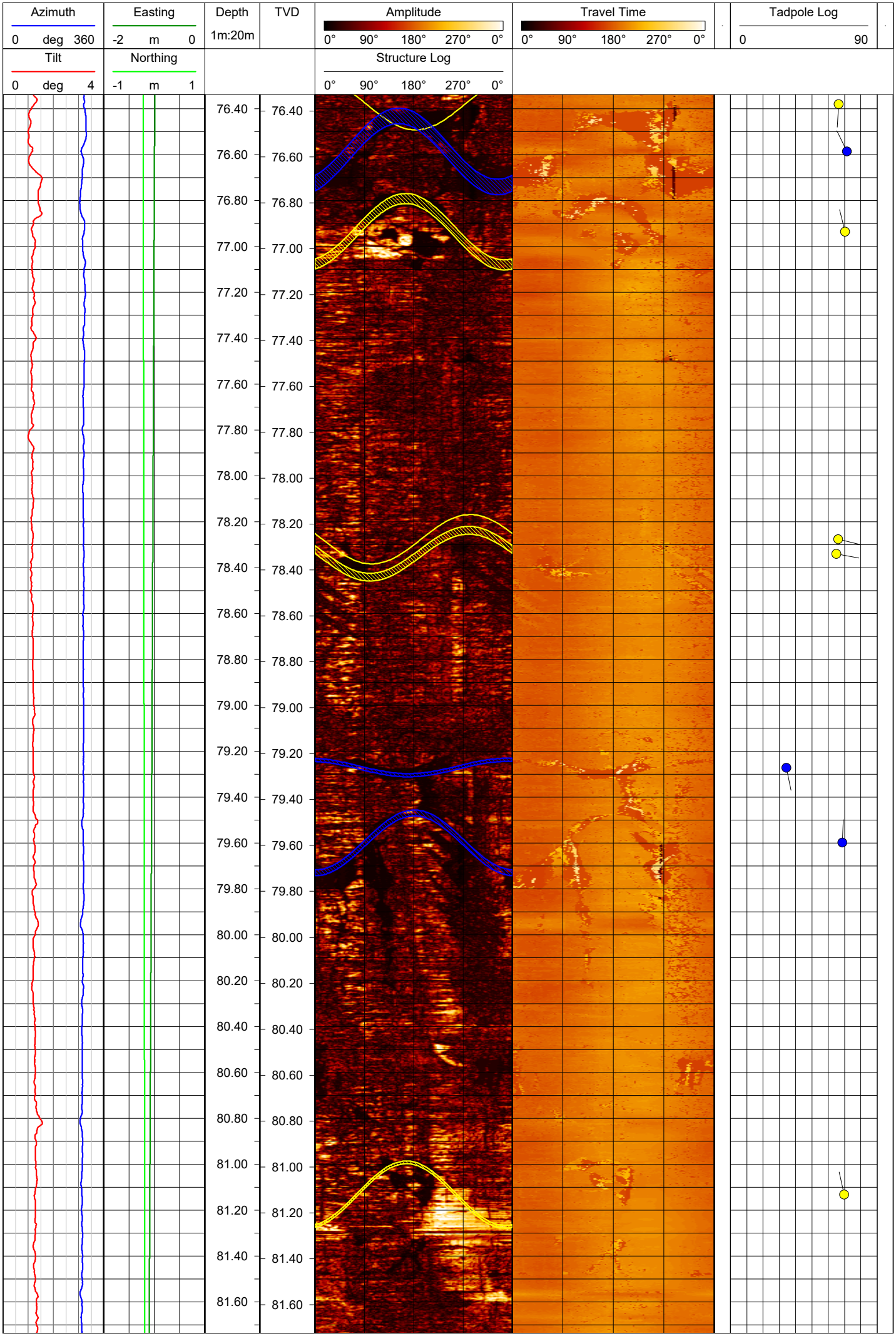
Off-shore Phase 2 Ground Investigation for Sizewell 2019/2020

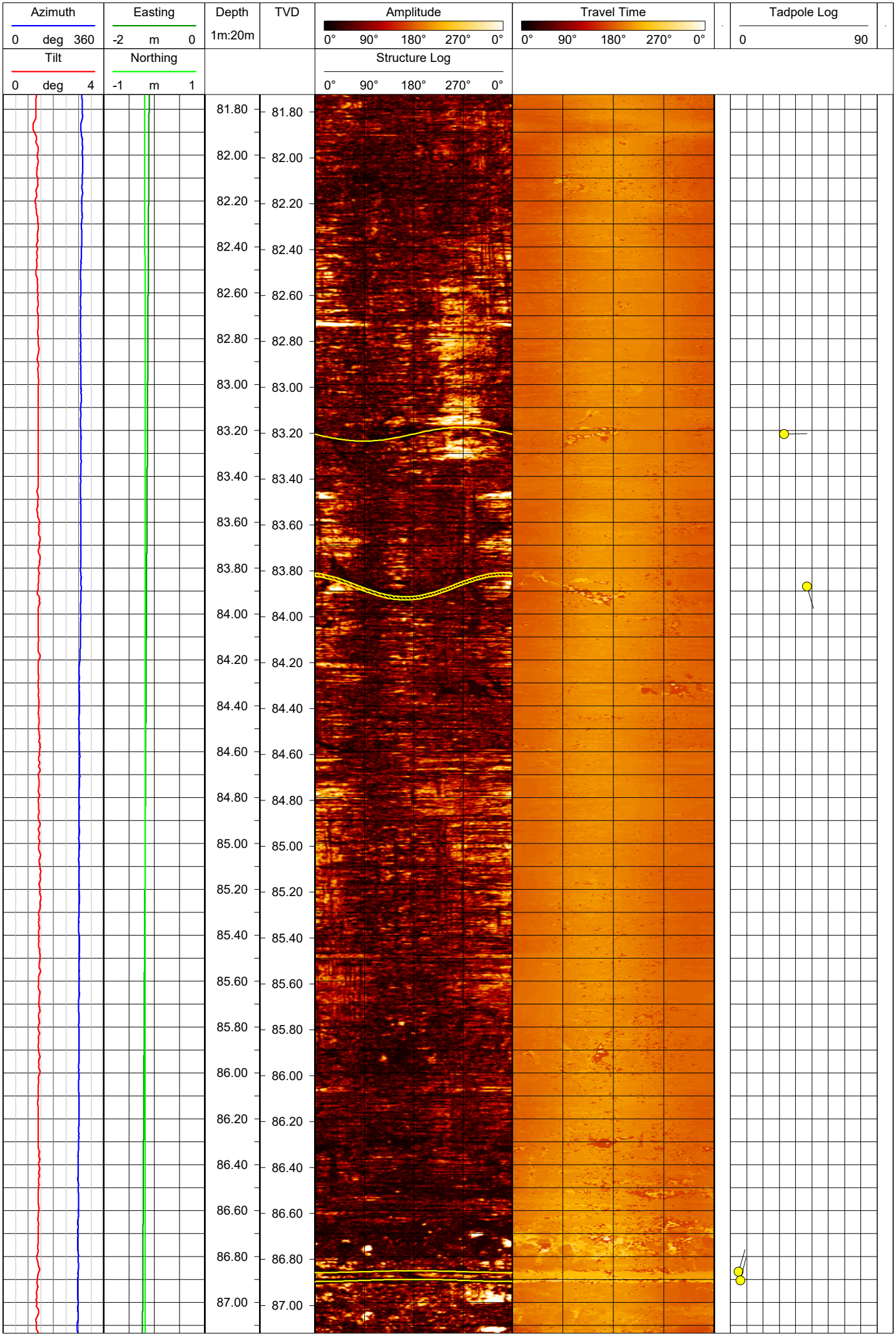
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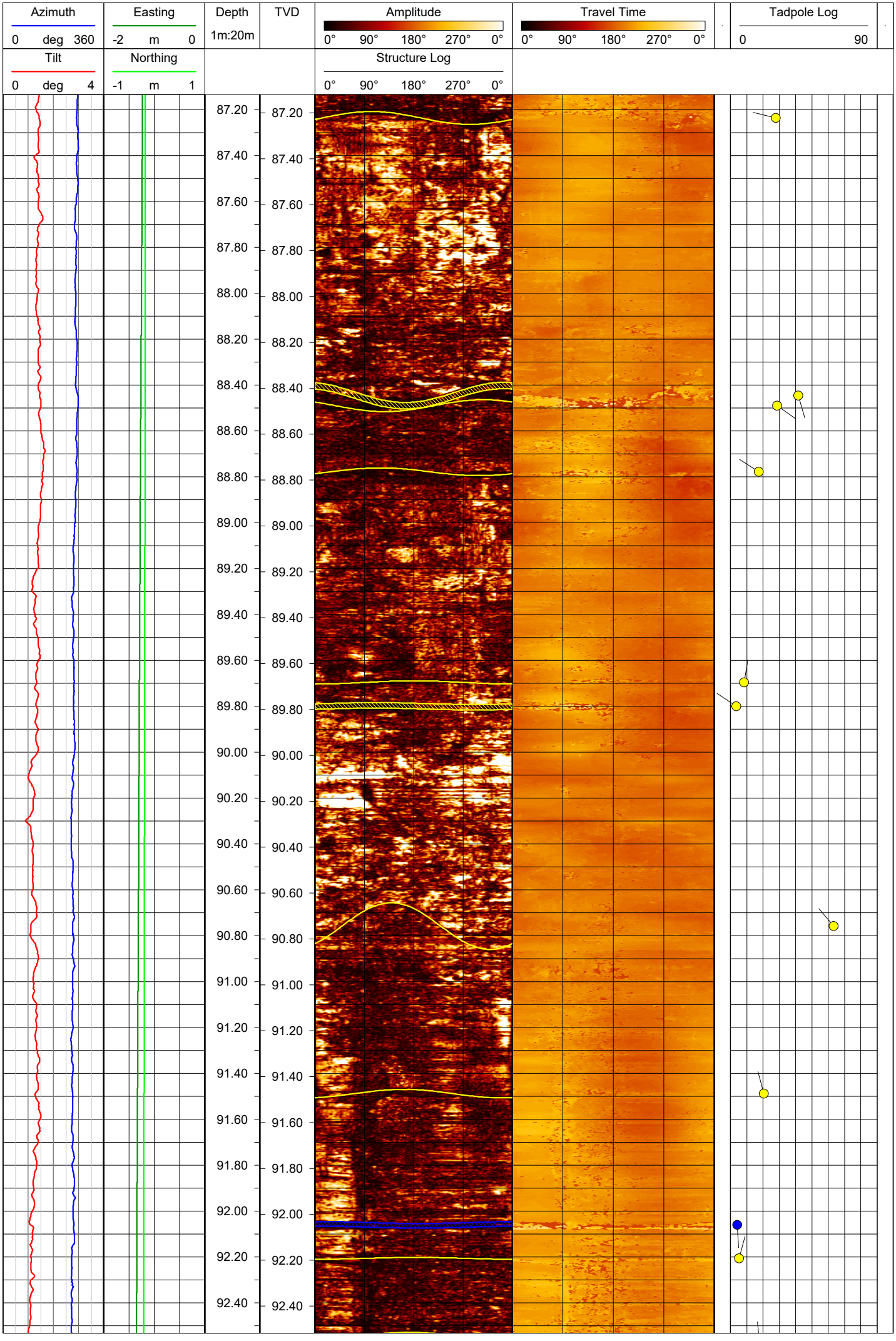

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
60.20
60.40
60.60
60.80
61.00
61.20
61.40
61.60
61.80
62.00
62.20
62.40
62.60
62.80
63.00
63.20
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63.60
63.80
64.00
64.20
64.40
64.60
64.80
65.00
65.20
65.40

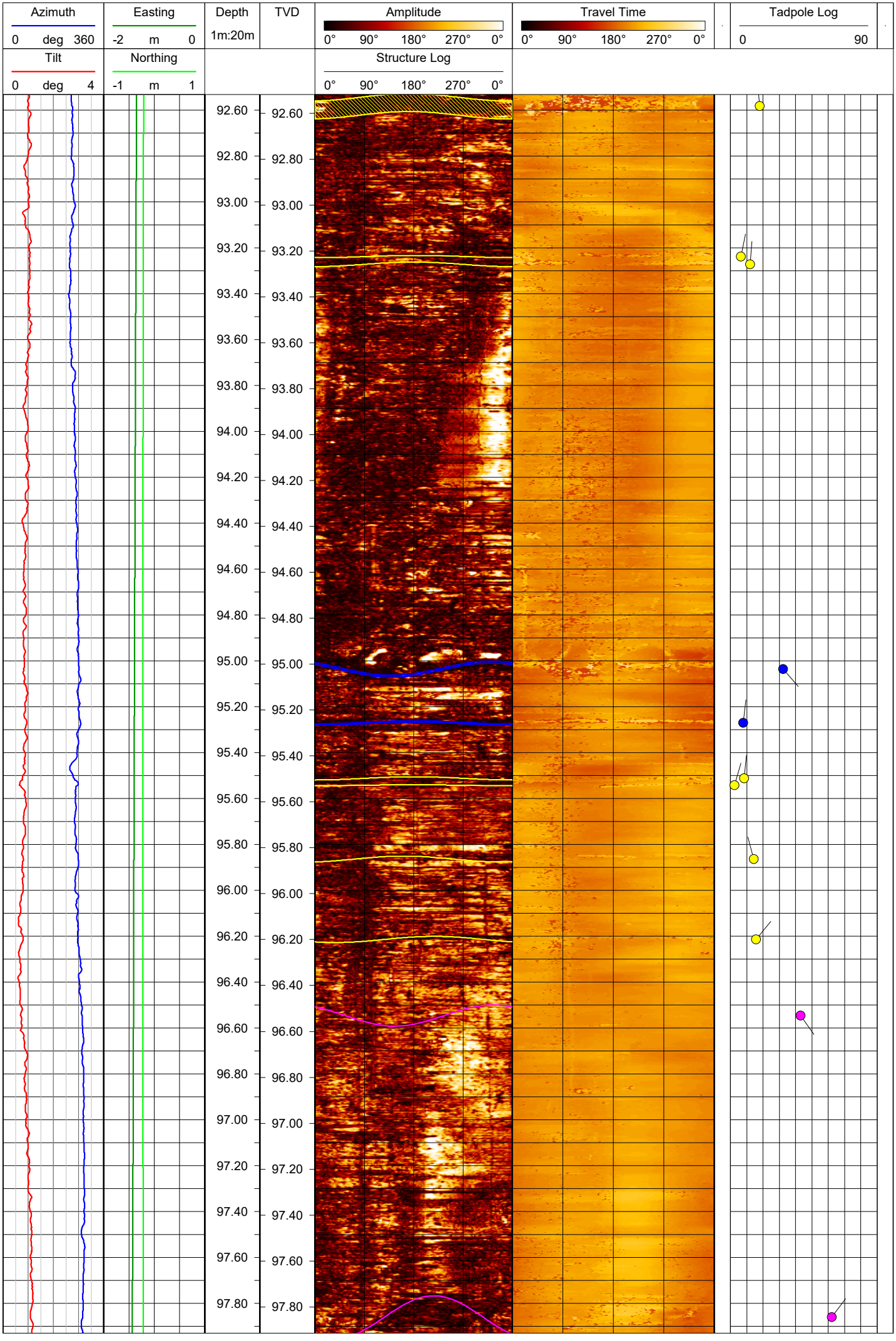

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
65.60
65.80
66.00
66.20
66.40
66.60
66.80
67.00
67.20
67.40
67.60
67.80
68.00
68.20
68.40
68.60
68.80
69.00
69.20
69.40
69.60
69.80
70.00
70.20
70.40
70.60
70.80

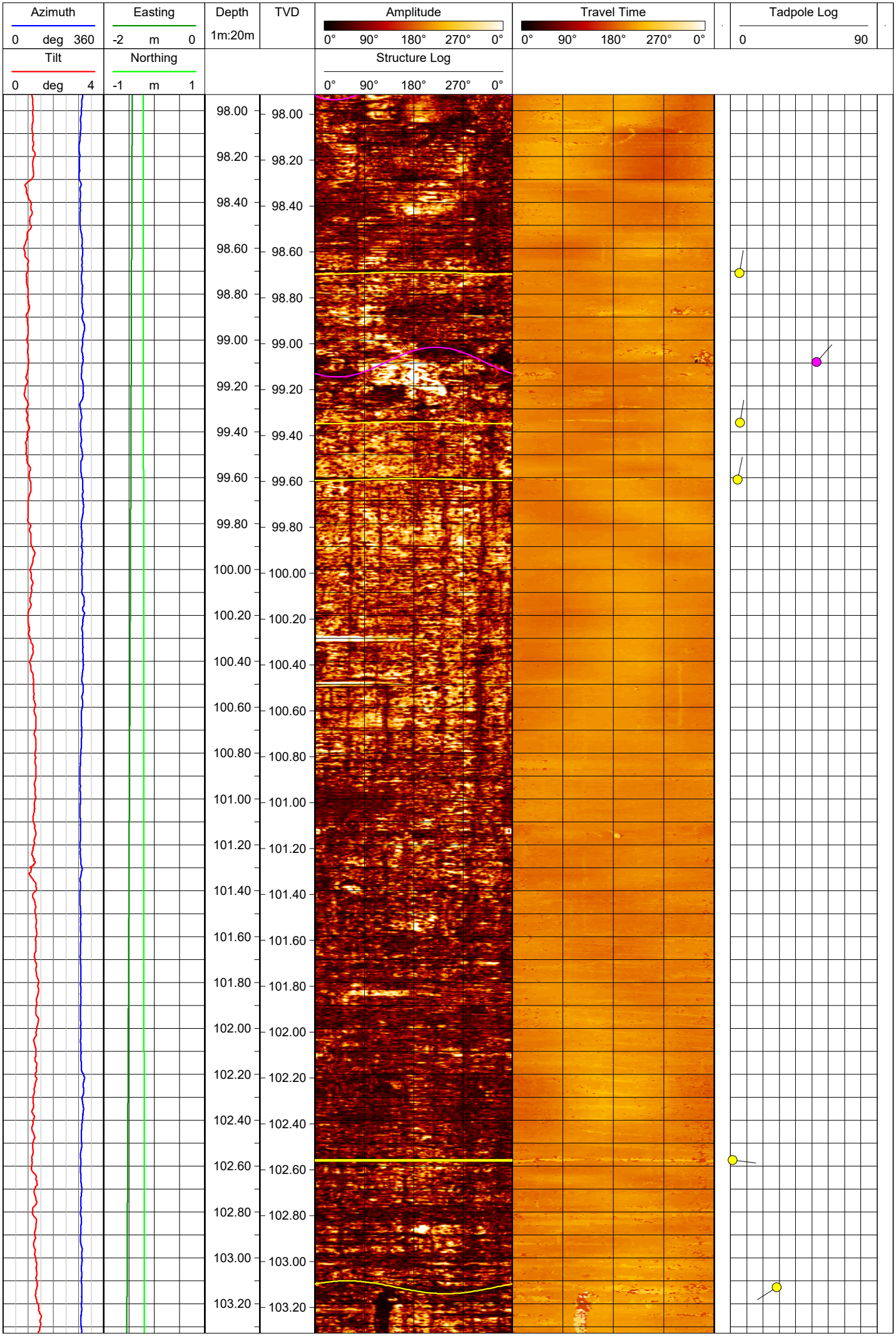

Azimuth
0 deg 360
Easting
-2 m 0
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
Tilt
0 deg 4
Northing
-1 m 1
Structure Log
0° 90° 180° 270° 0°
71.00
71.20
71.40
71.60
71.80
72.00
72.20
72.40
72.60
72.80
73.00
73.20
73.40
73.60
73.80
74.00
74.20
74.40
74.60
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75.00
75.20
75.40
75.60
75.80
76.00
76.20

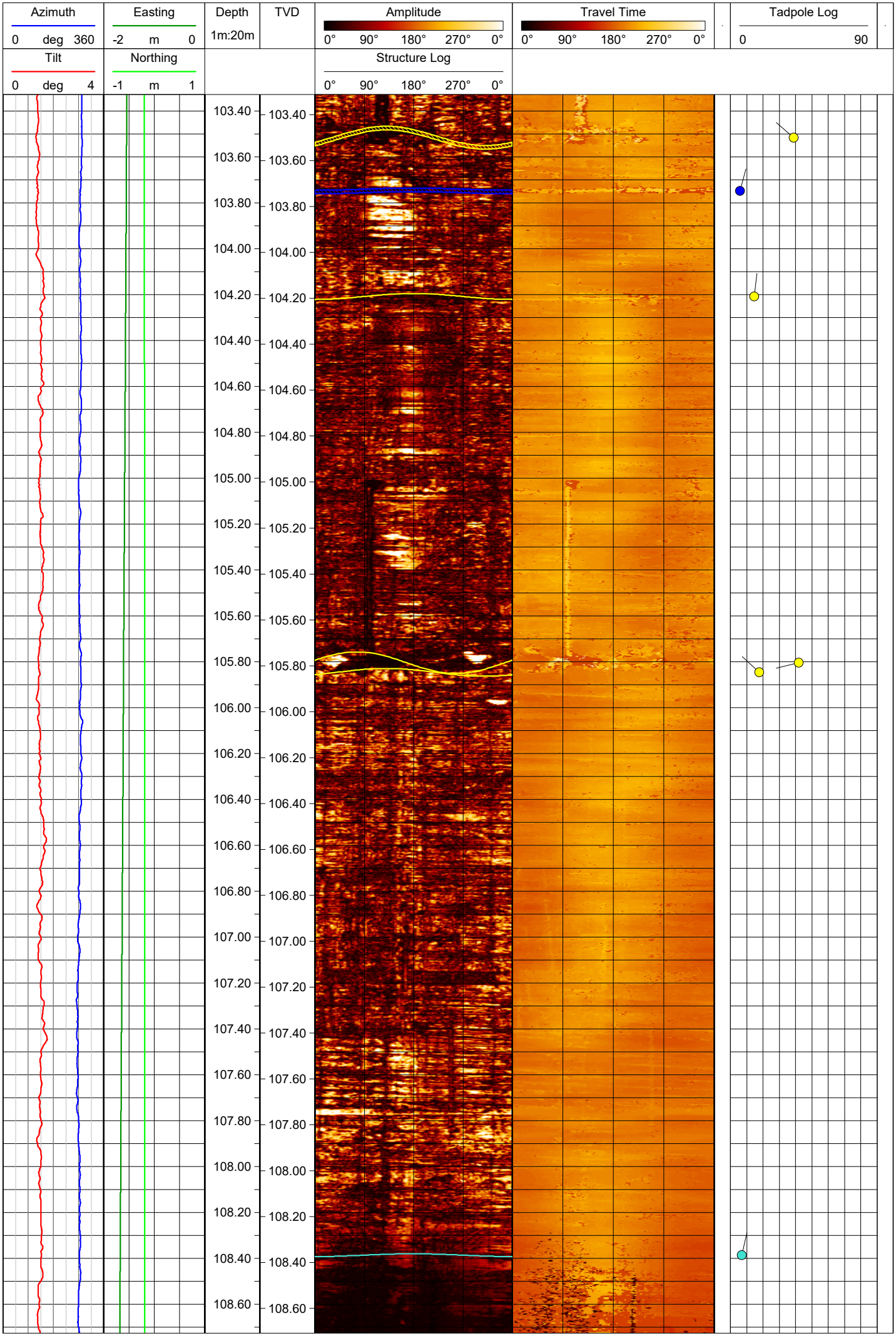

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
76.40
76.60
76.80
77.00
77.20
77.40
77.60
77.80
78.00
78.20
78.40
78.60
78.80
79.00
79.20
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81.20
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81.60

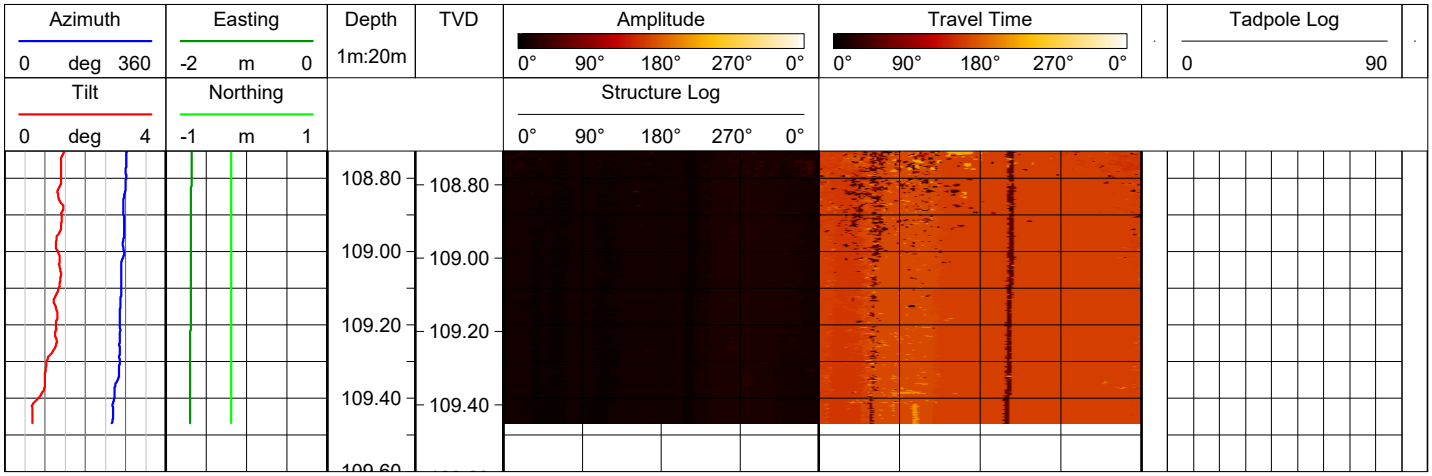

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
81.80
82.00
82.20
82.40
82.60
82.80
83.00
83.20
83.40
83.60
83.80
84.00
84.20
84.40
84.60
84.80
85.00
85.20
85.40
85.60
85.80
86.00
86.20
86.40
86.60
86.80
87.00


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
87.20
87.40
87.60
87.80
88.00
88.20
88.40
88.60
88.80
89.00
89.20
89.40
89.60
89.80
90.00
90.20
90.40
90.60
90.80
91.00
91.20
91.40
91.60
91.80
92.00
92.20
92.40


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
92.60
92.80
93.00
93.20
93.40
93.60
93.80
94.00
94.20
94.40
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94.80
95.00
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95.40
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95.80
96.00
96.20
96.40
96.60
96.80
97.00
97.20
97.40
97.60
97.80


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
98.00
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98.40
98.60
98.80
99.00
99.20
99.40
99.60
99.80
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101.80
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102.40
102.60
102.80
103.00
103.20


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
103.40
103.60
103.80
104.00
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104.40
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105.20
105.40
105.60
105.80
106.00
106.20
106.40
106.60
106.80
107.00
107.20
107.40
107.60
107.80
108.00
108.20
108.40
108.60


Azimuth
0 deg 360
Easting
-2 m 0
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
Tilt
0 deg 4
Northing
-1 m 1
Structure Log
0° 90° 180° 270° 0°
108.80
109.00
109.20
109.40
108.80
109.00
109.20
109.40

OT_SPT_03 Discontinuity Table

Depth (m)	Azimuth (deg)	Dip (deg)	Type
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Depth (m)	Azimuth (deg)	Dip (deg)	Type
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Depth (m)	Azimuth (deg)	Dip (deg)	Type
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Client: EDF Energy

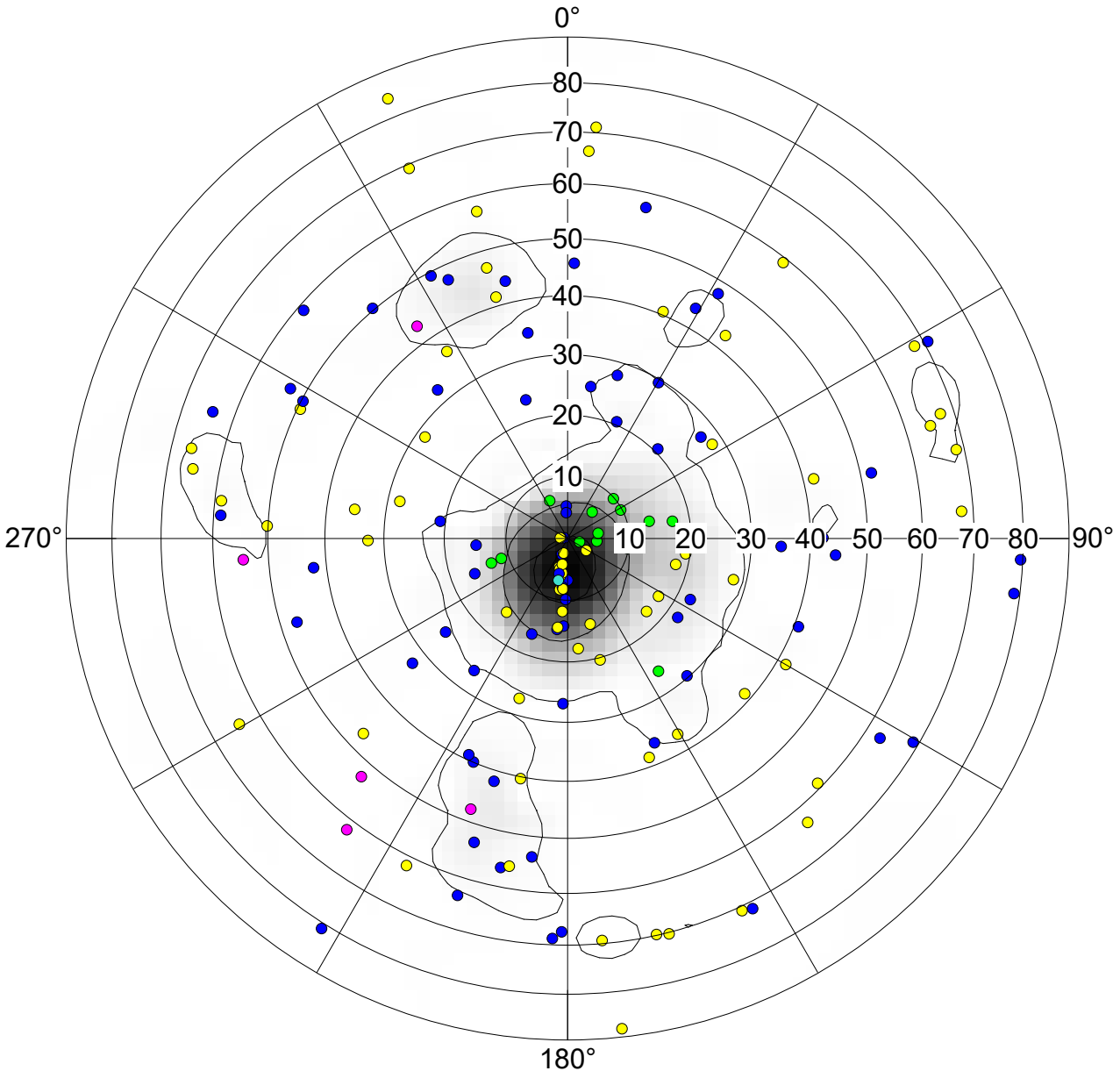
Project: Ground Investigation - Sizewell C

Borehole: **OT_SPT_03** Log Title: **Polar Plot**

Tadpole | Sine Wave

- Major Fracture / Joint - open
- Minor Fracture / Joint - probably open
- Fracture / Joint - not further evaluable
- Fracture / Joint - infilled
- Bedding / Banding / Foliation / Lamination
- Unclassified
- Lithological boundary

Schmidt Plot - LH - Type
Depth: 0.00 [m] to 110.00 [m]



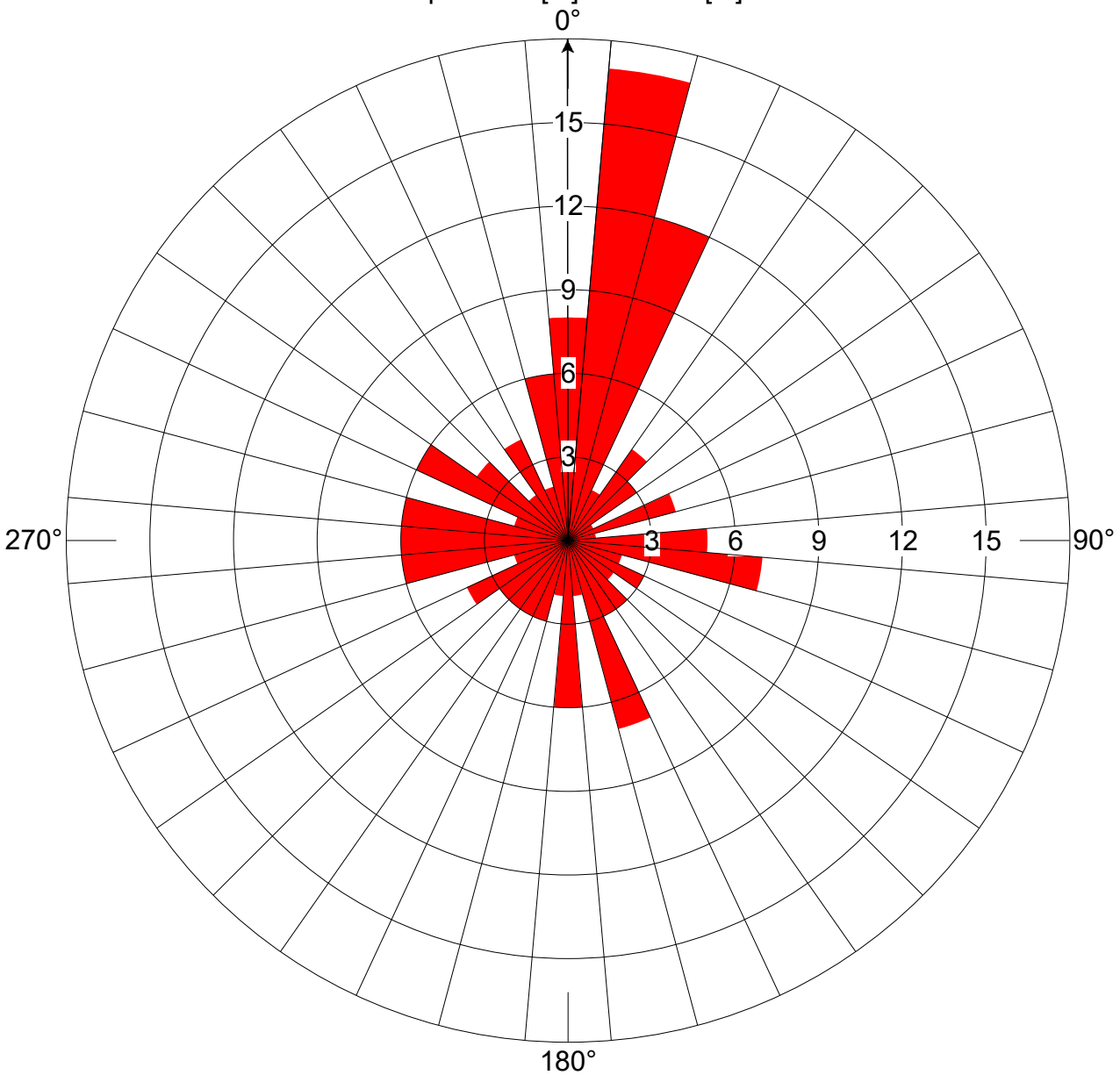
	Counts	Dip[deg]	Azi[deg]
Mean	156	4.26	359.88
●	69	2.24	22.82
●	68	7.69	341.74
●	13	4.71	271.02
●	5	47.51	52.02
●	1	6.94	12.96

Client: EDF Energy

Project: Ground Investigation - Sizewell C

Borehole: **OT_SPT_03** Log Title: **Rose Plot**

Azimuth - Absolute (Count)
Depth: 0.00 [m] to 110.00 [m]



Components:	Azimuth
Counts:	156.00
Mean (3D):	359.88
Min:	0.00
Max:	355.10

WIRELINE GEOPHYSICAL LOG

Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**

Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date: 11-12/07/2019
Borehole: OT_SPT_03	Fugro Site Manager: Julian North, Daryl Brooks	
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 650388.42 N: 264104.87	Grid Reference: OSGB 1936 Elevation: -7.90 mOD
Borehole Depth (Drilling): 110.00 m	Recorded By: L. Pal, Sz. Boncz	Processed By: L. Pal, Sz. Boncz
Borehole Depth (Wireline): 109.56 m	Remarks:	
Logging Datum: mud level	Natural Gamma was logged in steel casing. PS Logging was carried out in 4 sections. Hole was filling up continuously due to material falling from borehole wall. No PSL data between 73.5 m and 61 m and between 29 m and 25.5 m due to borehole collapse.	
Logged Interval: 0.00 m - 109.56 m		
Fluid Level: sea level		

BOREHOLE RECORD (DRILLING)

Bit Diameter:	From:	To:
146 mm	0.00 m	110.00 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-18.10 m	1.80 m
Steel	178 mm	-18.40 m	28.30 m
Steel (NG in casing)	146 mm	-19.00 m	110.00 m

Depth 1m:100m

Natural Gamma: 0 API 100

Natural Gamma repeat: 0 API 100

Vp: 0 m/s 3000

Vs: 0 m/s 3000

Vp/Vs: 0 10

Poisson: 0.1 0.6

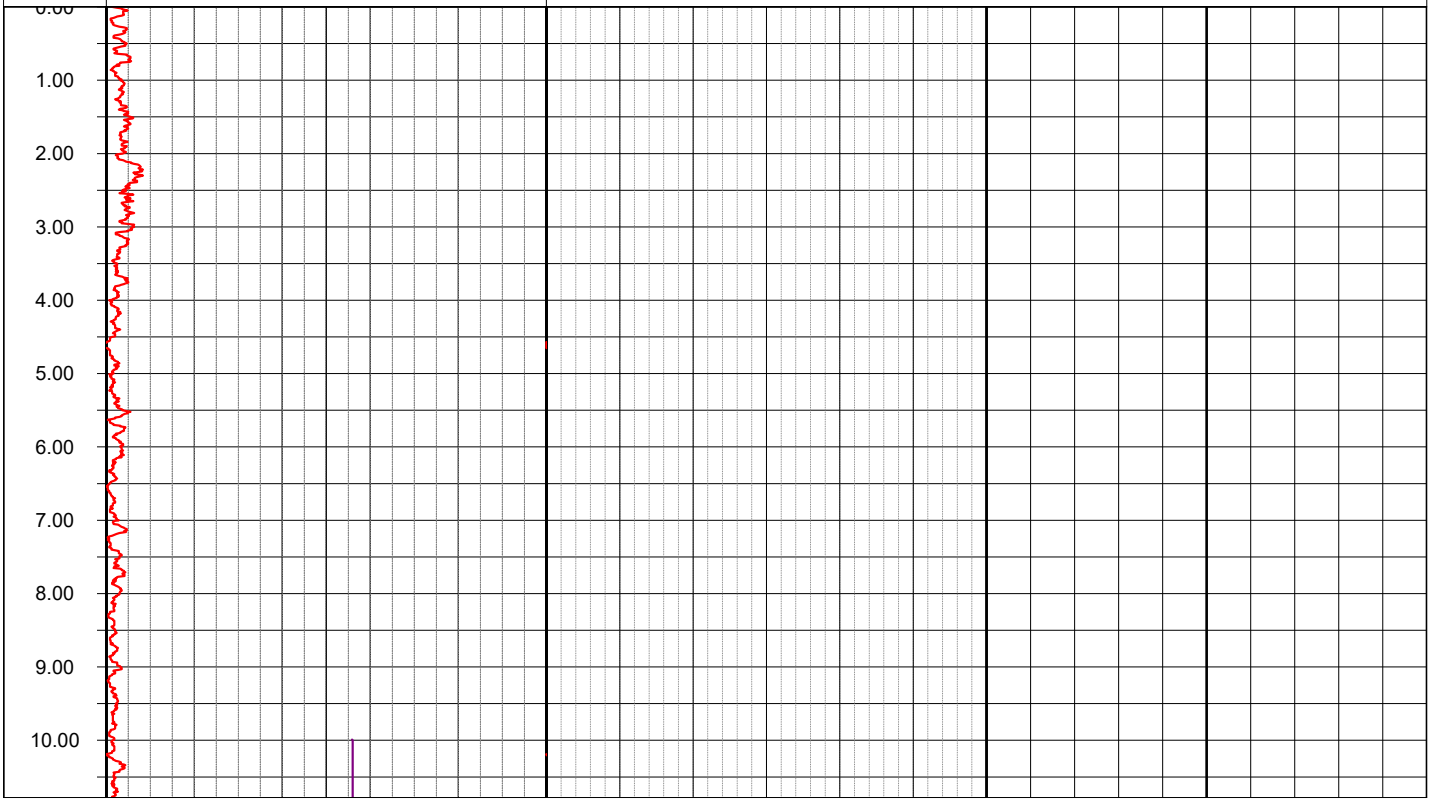
Caliper (Section 1): 50 mm 250

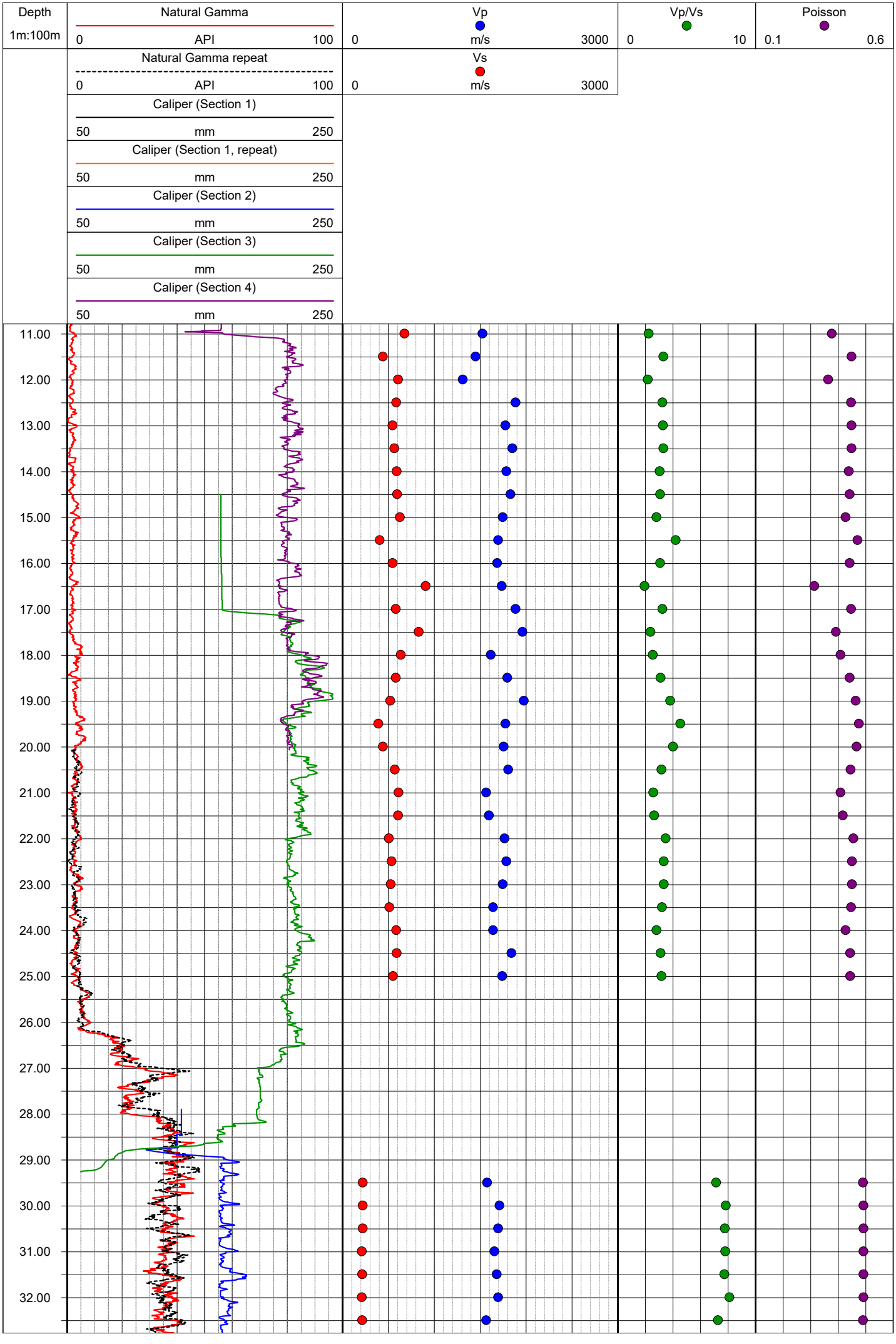
Caliper (Section 1, repeat): 50 mm 250

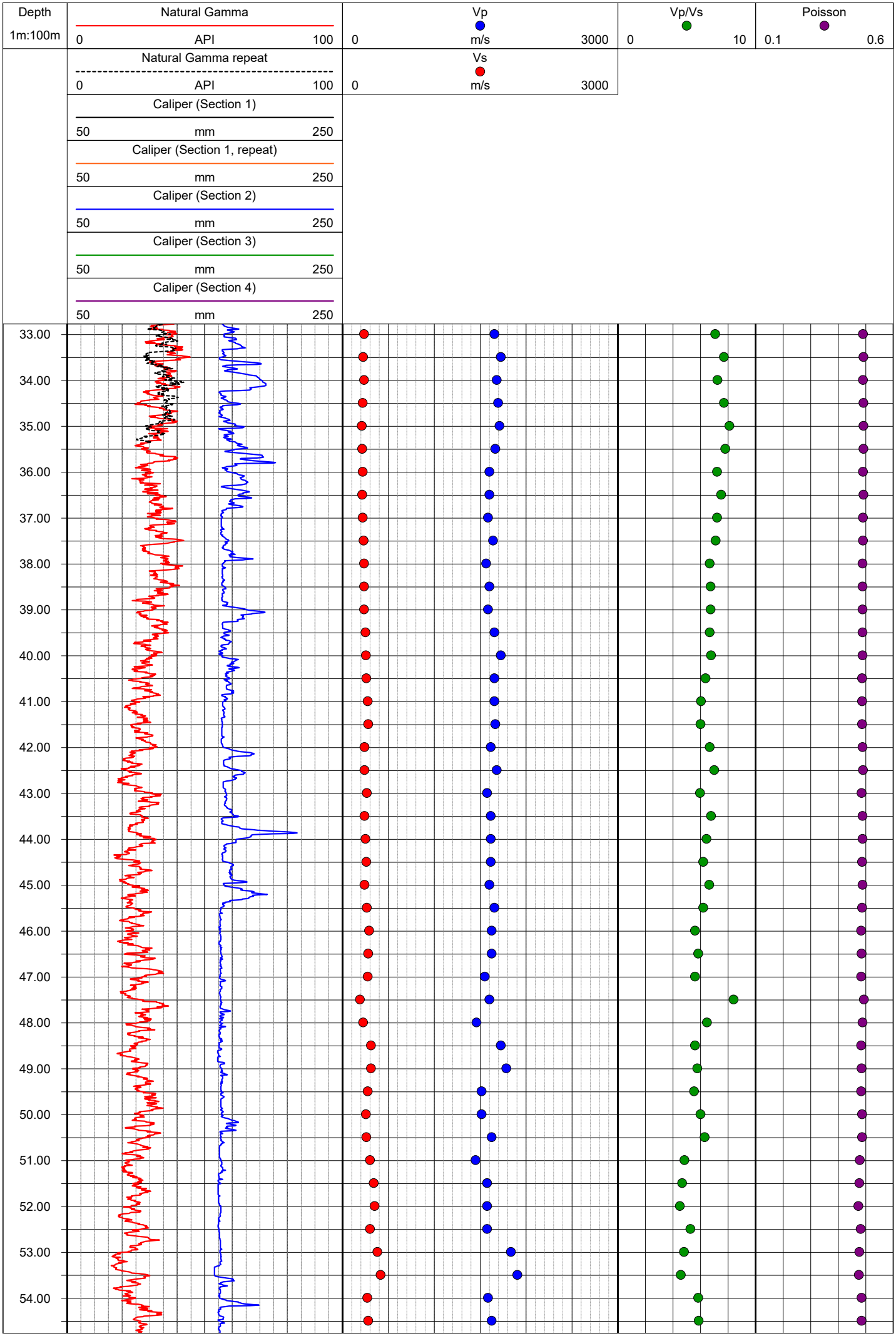
Caliper (Section 2): 50 mm 250

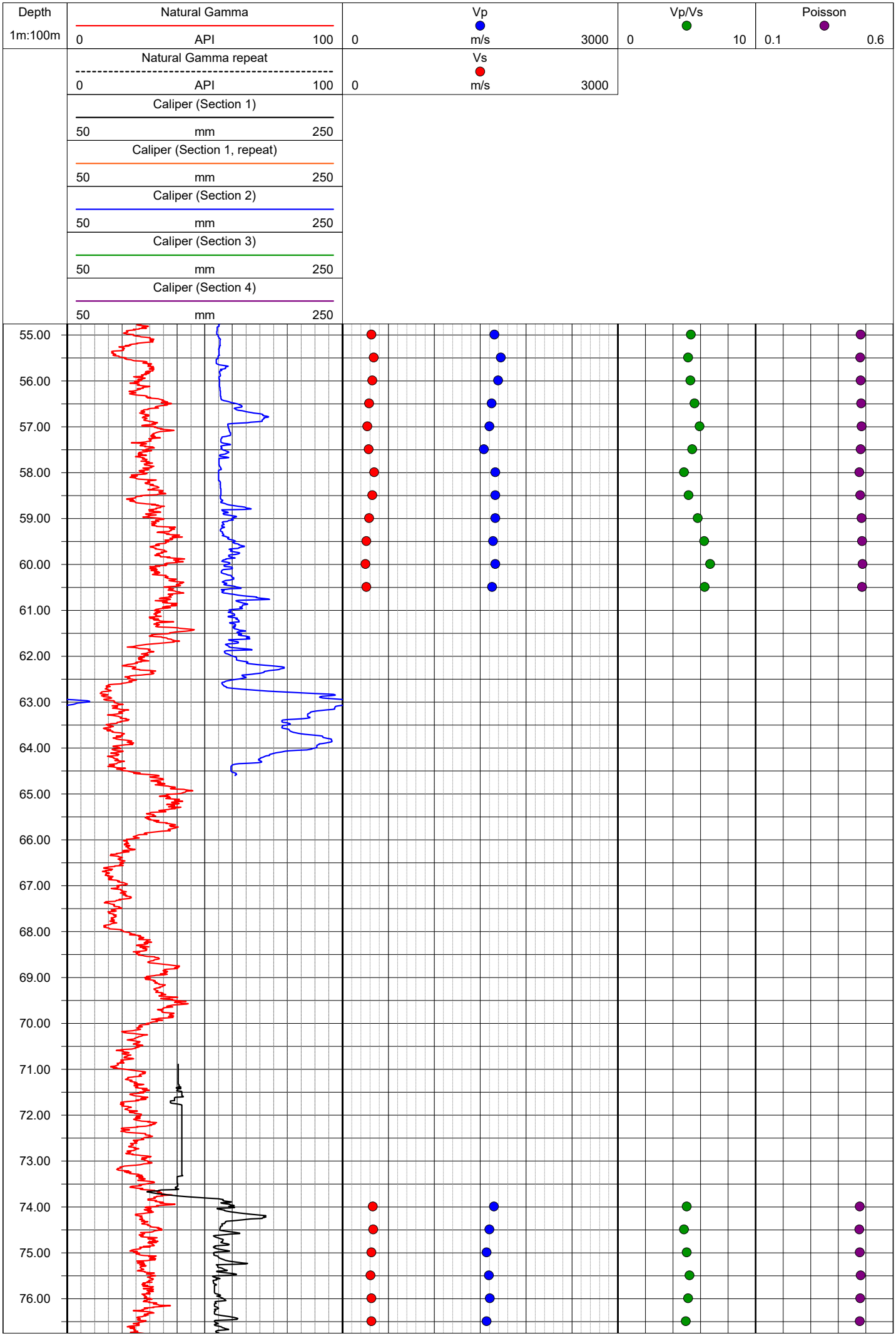
Caliper (Section 3): 50 mm 250

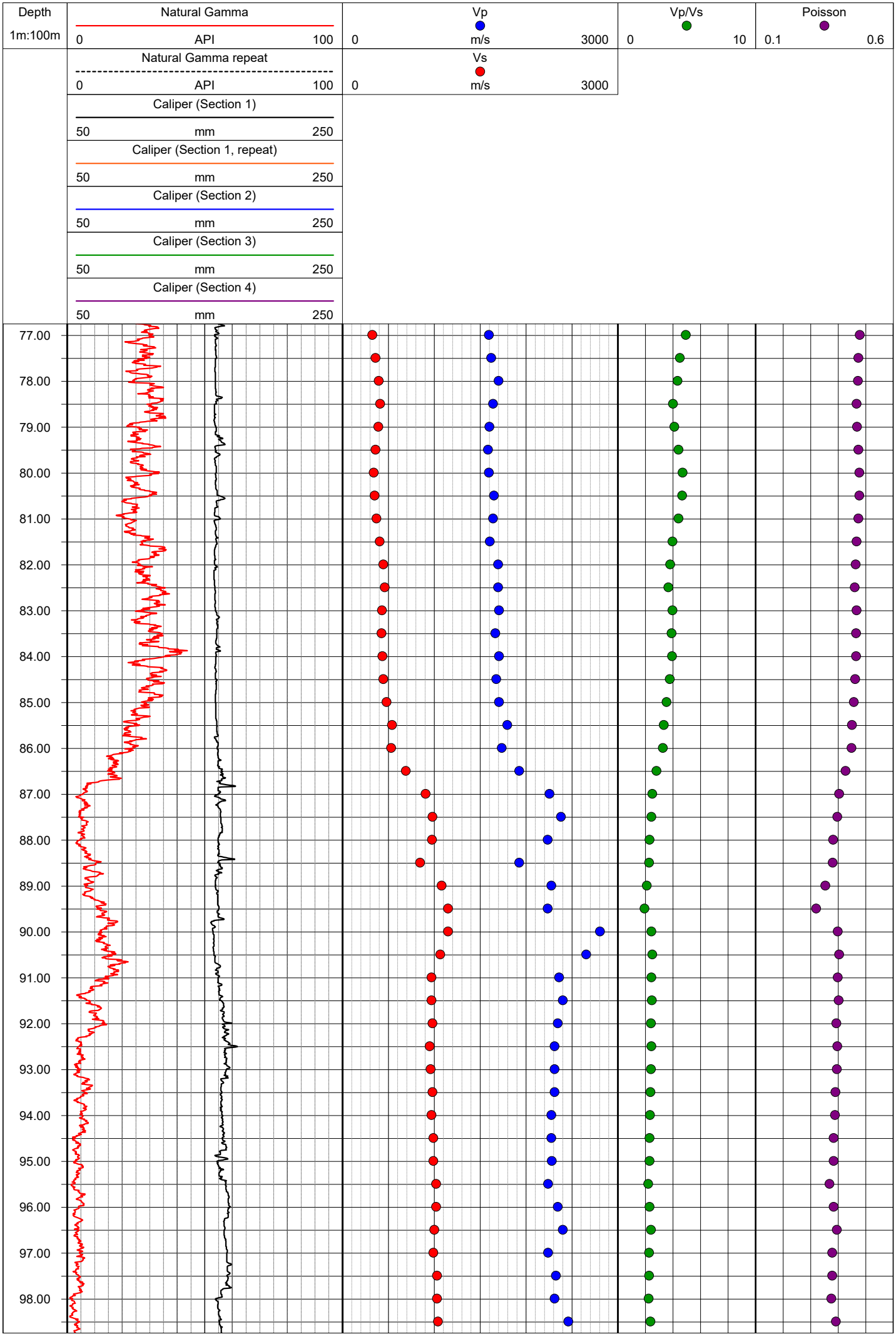
Caliper (Section 4): 50 mm 250

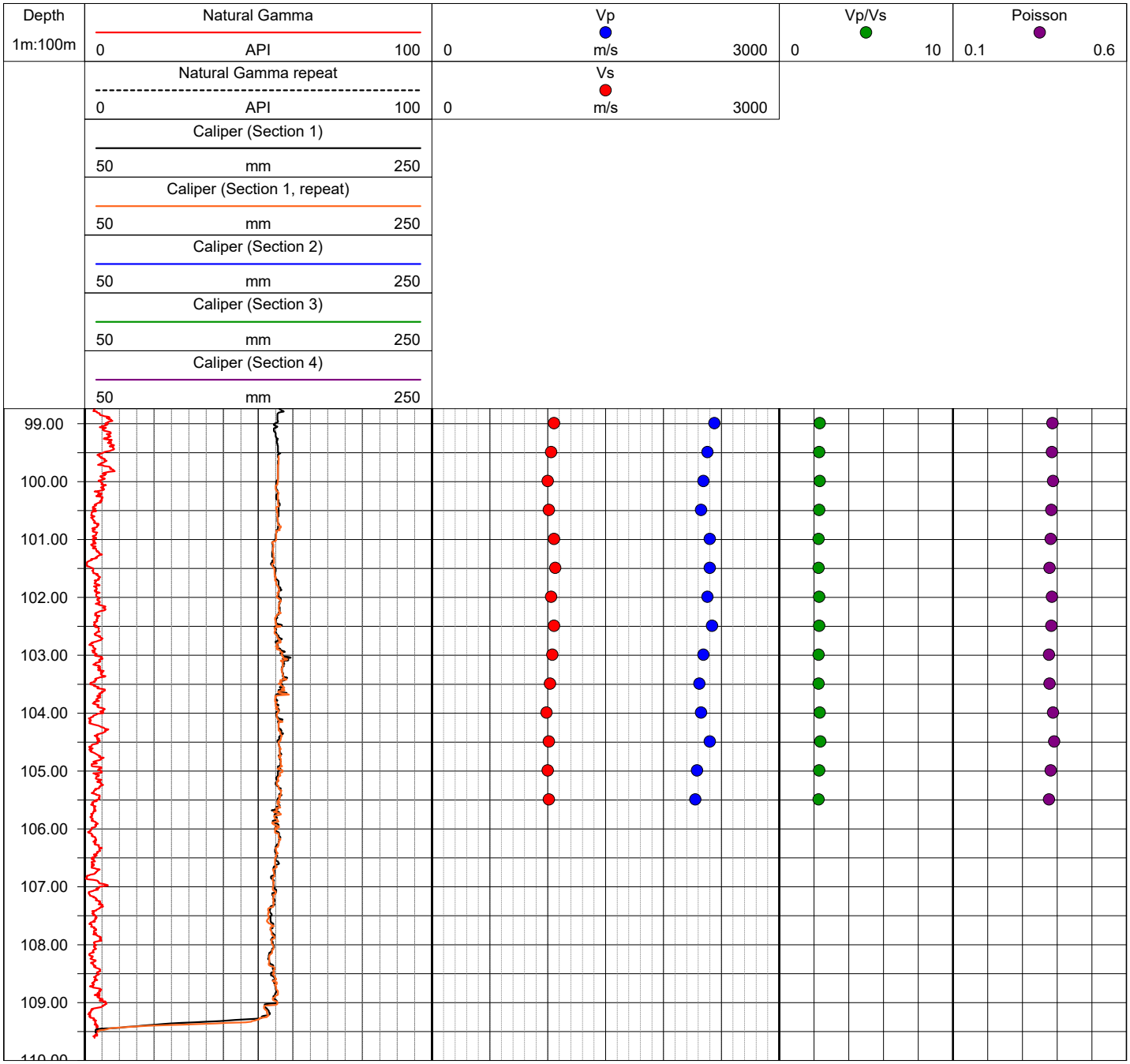



Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 1, repeat)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 1, repeat)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
33.00
34.00
35.00
36.00
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 1, repeat)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
55.00
56.00
57.00
58.00
59.00
60.00
61.00
62.00
63.00
64.00
65.00
66.00
67.00
68.00
69.00
70.00
71.00
72.00
73.00
74.00
75.00
76.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 1, repeat)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
77.00
78.00
79.00
80.00
81.00
82.00
83.00
84.00
85.00
86.00
87.00
88.00
89.00
90.00
91.00
92.00
93.00
94.00
95.00
96.00
97.00
98.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 1, repeat)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Caliper (Section 4)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
99.00
100.00
101.00
102.00
103.00
104.00
105.00
106.00
107.00
108.00
109.00

OT_SPT_03 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

rr d

rr d

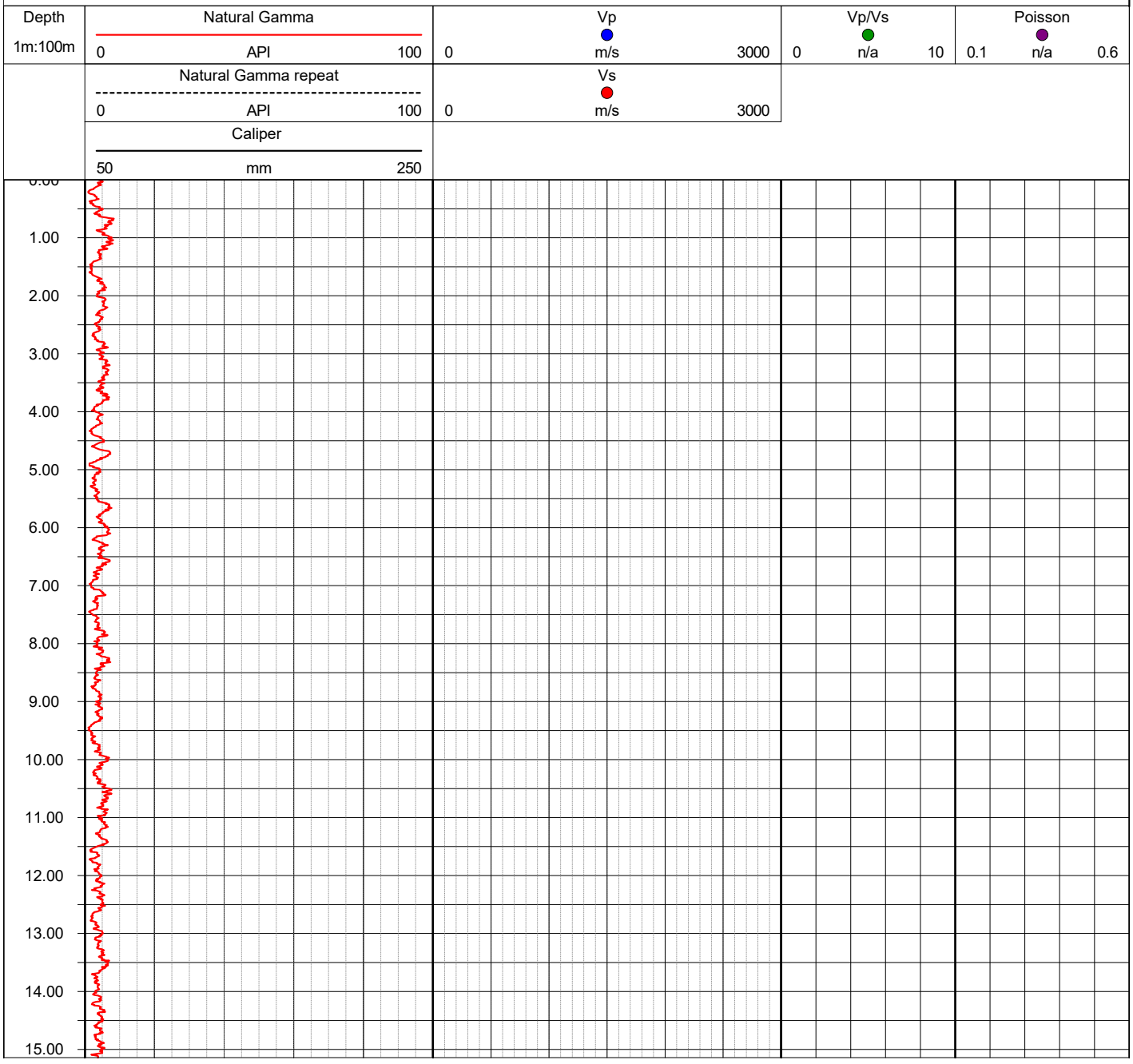
FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Veronique Bienvenu Externe	Logging Date:
	Borehole: OT_SPT_04	Fugro Site Manager: Colin Mulvey, Callum Murphy	05-06/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 651086.69 N: 264109.59	Grid Reference: OSGB 1936	Elevation: -16.19 mOD
Borehole Depth (Drilling): 55.30 m		Recorded By: Sz.Boncz, W.Cuthbertson	Processed By: Sz.Boncz, W.Cuthbertson
Borehole Depth (Wireline): 54.77 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 54.77 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 1 section.	
Fluid Level: sea level			

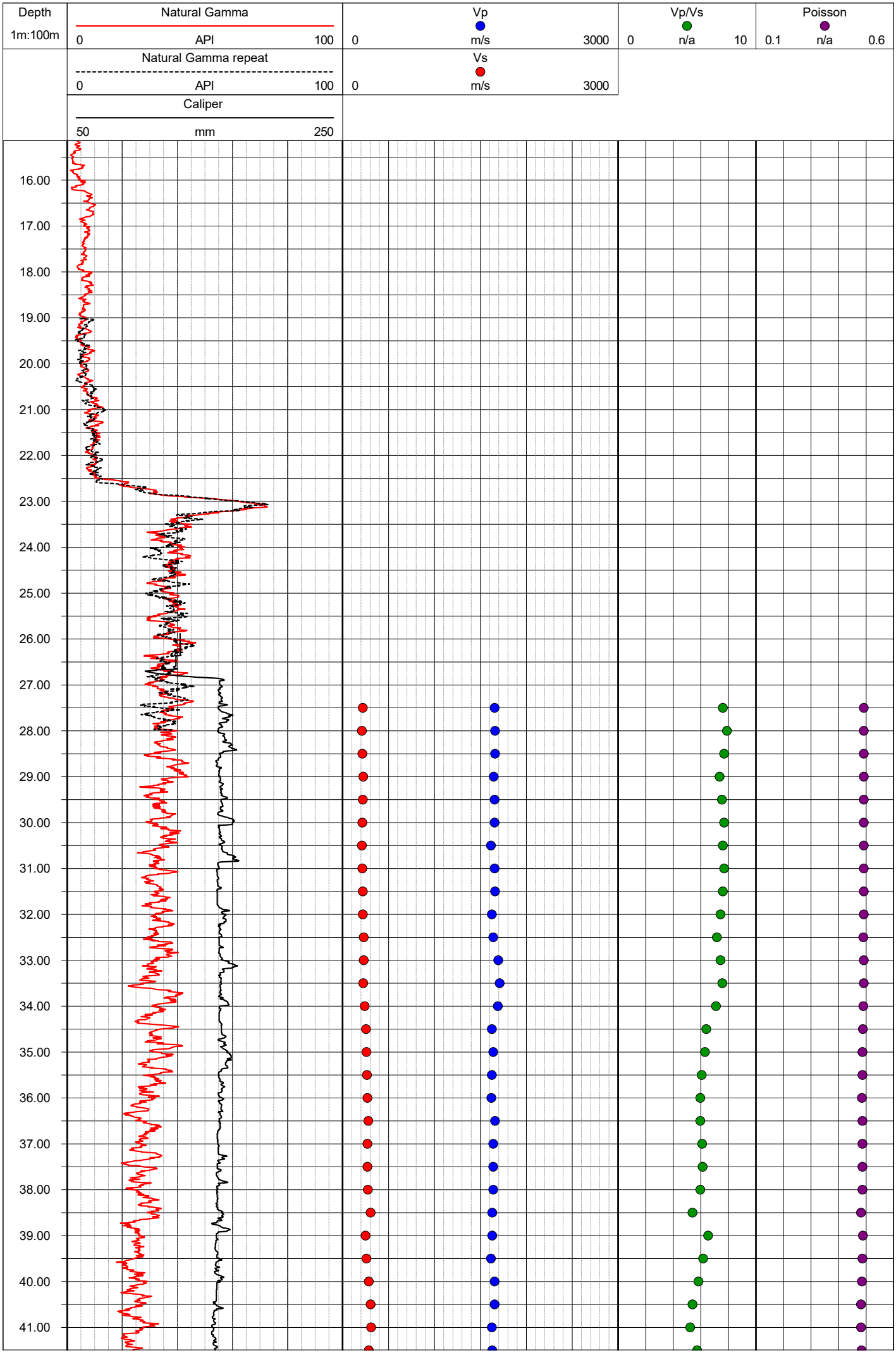
BOREHOLE RECORD (DRILLING)

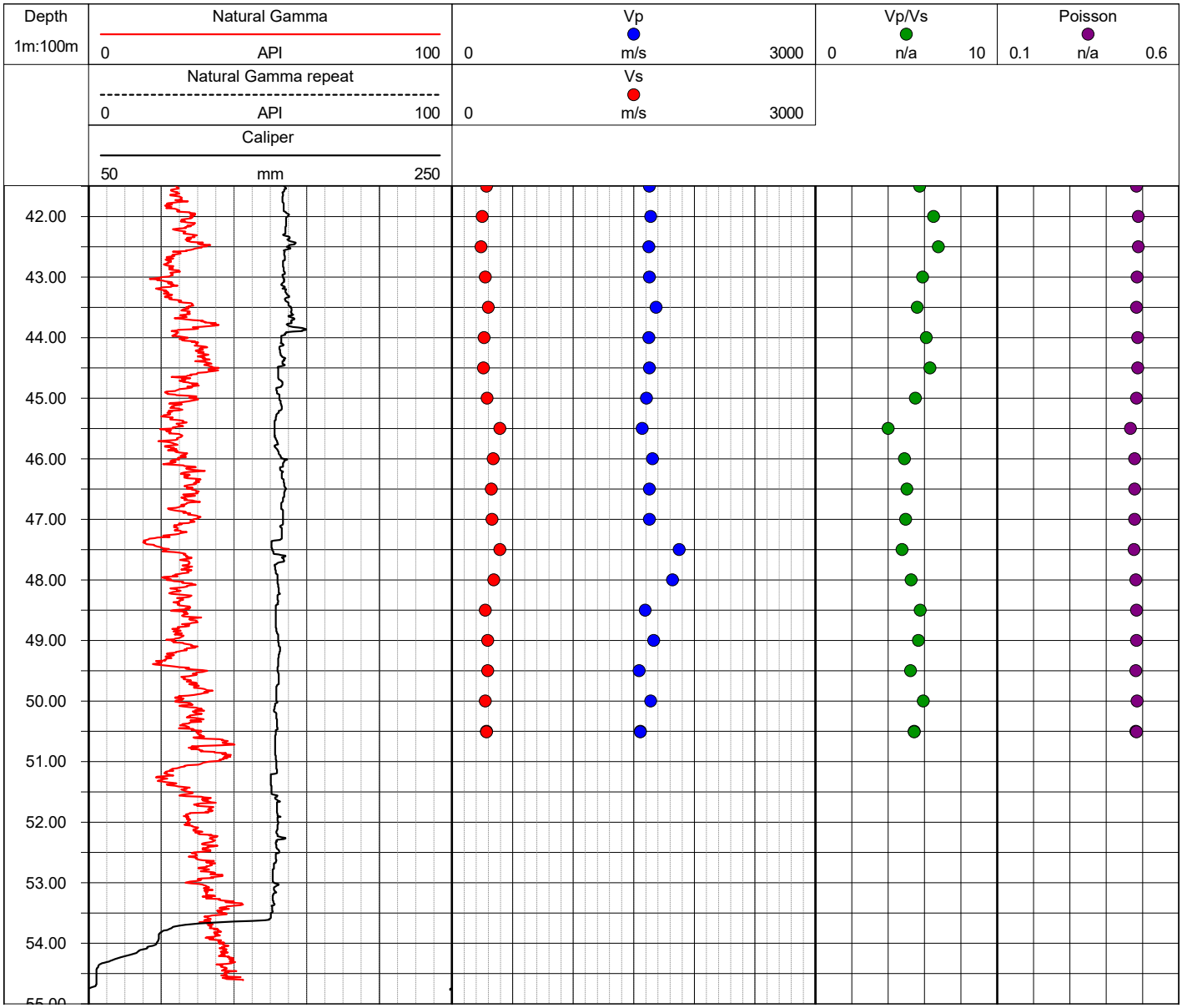
Bit Diameter:	From:	To:
146 mm	0.00 m	55.30 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-26.00 m	2.80 m
Steel	178 mm	-26.70 m	16.00 m
Steel (NG in casing)	146 mm	-27.20 m	55.30 m




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
n/a
10
Poisson
0.1
n/a
0.6
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00
38.00
39.00
40.00
41.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
n/a
10
Poisson
0.1
n/a
0.6
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00

OT_SPT_04 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

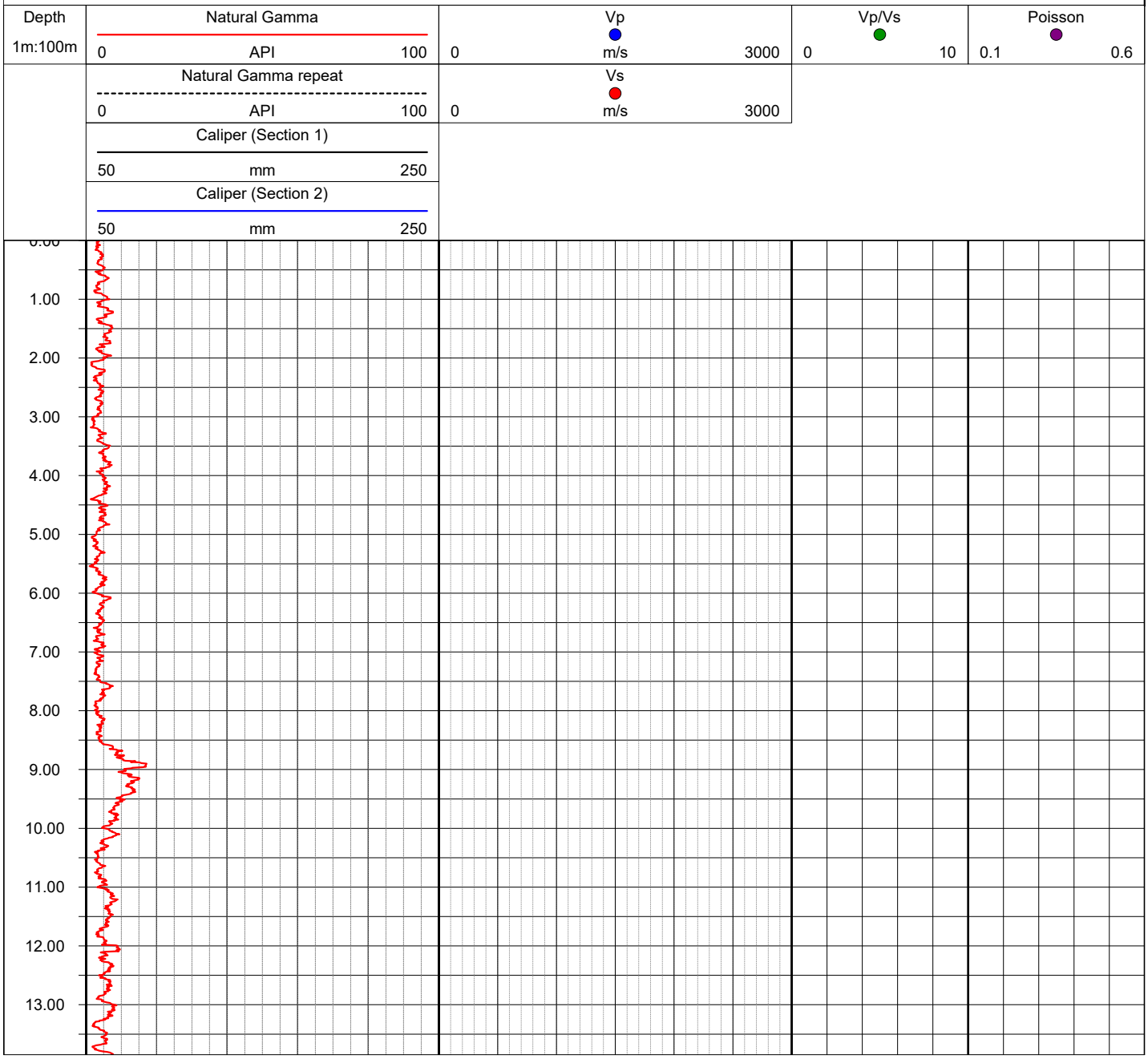
FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Vernacio Carrillo	Logging Date:
	Borehole: OT_SPT_05	Fugro Site Manager: Colin Mulvey, Callum Murphy	26/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 651158.86 N: 264109.83	Grid Reference: OSGB 1936	Elevation: -16.32 mOD
Borehole Depth (Drilling): 55.50 m		Recorded By: W. Cuthbertson, S. Boncz	Processed By: W. Cuthbertson, S. Boncz
Borehole Depth (Wireline): 54.82 m		Remarks:	
Logging Datum: mud level		Natural Gamma was logged in steel casing. PSL data is missing between 23.00 and 30.00 m due to borehole collapse in the 2nd Section. PSL data cannot be evaluated at 30.00 m and 30.50 m due to borehole rugosity	
Logged Interval: 0.00 m - 54.82 m			
Fluid Level: sea level			

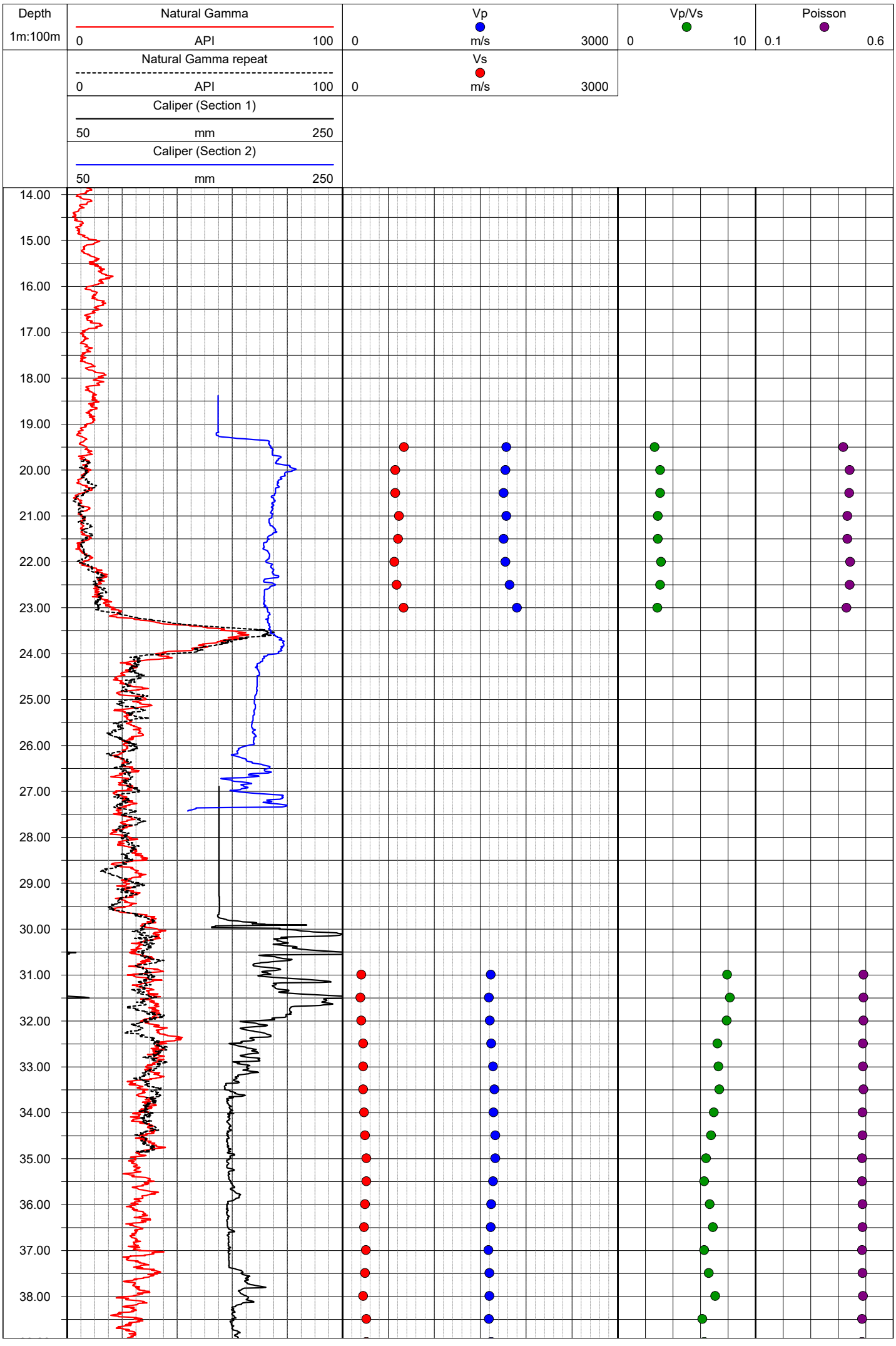
BOREHOLE RECORD (DRILLING)

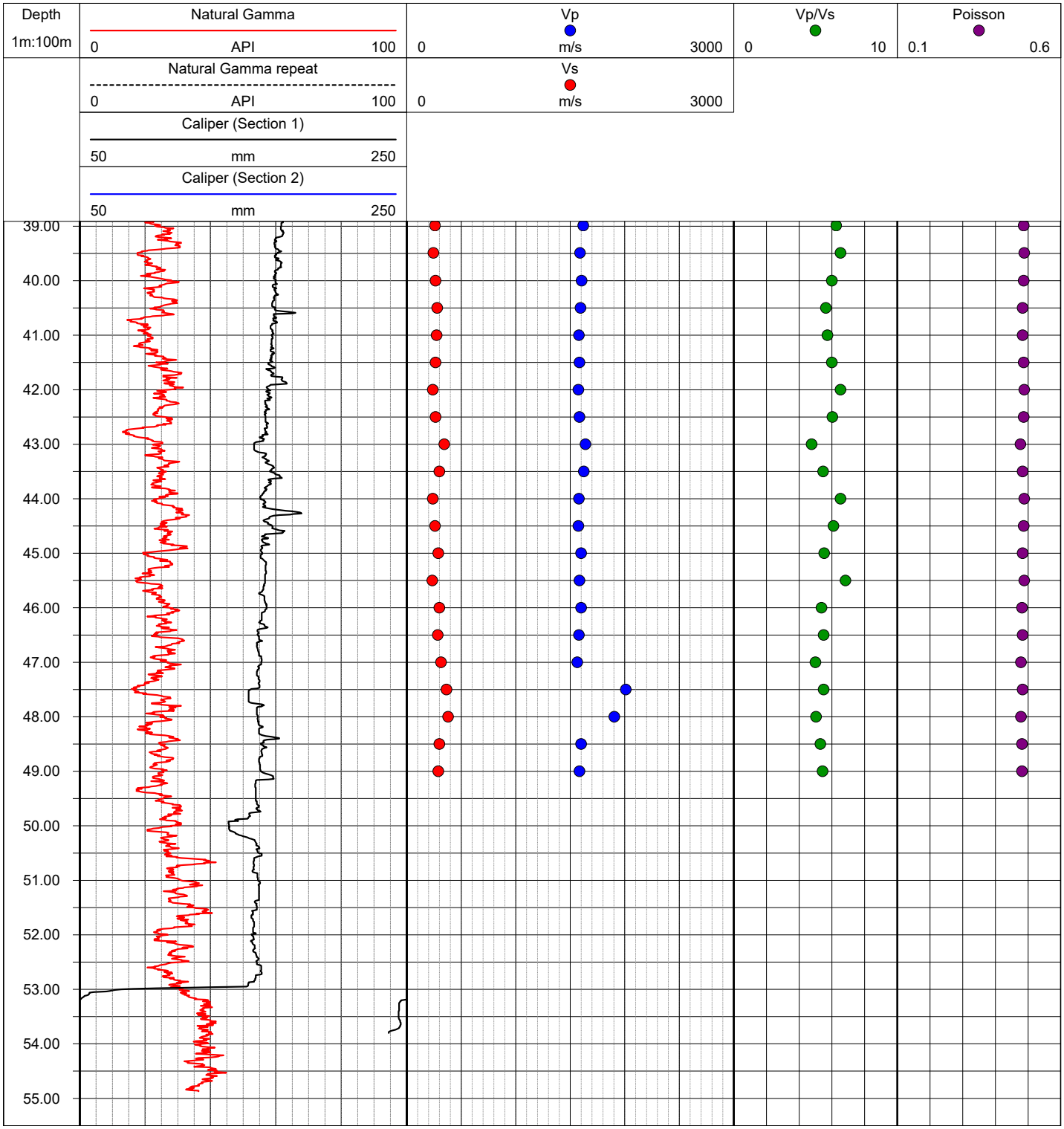
Bit Diameter:	From:	To:
146 mm	0.00 m	55.50 m

CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-26.50 m	1.30 m
Steel	178 mm	-27.30 m	26.00 m
Steel (NG in casing)	146 mm	-27.70 m	55.50 m




Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00
38.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00

OT_SPT_05 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**	
	Client: EDF Energy	Client Representative: Vernacio Carrillo	Logging Date:
	Borehole: OT_SPT_06	Fugro Site Manager: Colin Mulvey, Callum Murphy	29-30/06/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C		Log Approved by: B. Rigler
Country: UK	Position: E: 651244.40 N: 264105.07	Grid Reference: OSGB 1936	Elevation: -17.26 mOD
Borehole Depth (Drilling): 55.50 m		Recorded By: S. Boncz, W. Cuthbertson	Processed By: S. Boncz, W. Cuthbertson
Borehole Depth (Wireline): 55.00 m		Remarks:	
Logging Datum: mud level			
Logged Interval: 0.00 m - 55.00 m		Natural Gamma was logged in steel casing. PS Logging was carried out in 3 sections. Determination of S wave velocity is uncertain from 31.00 m to 27.00 m due the borehole rugosity.	
Fluid Level: sea level			

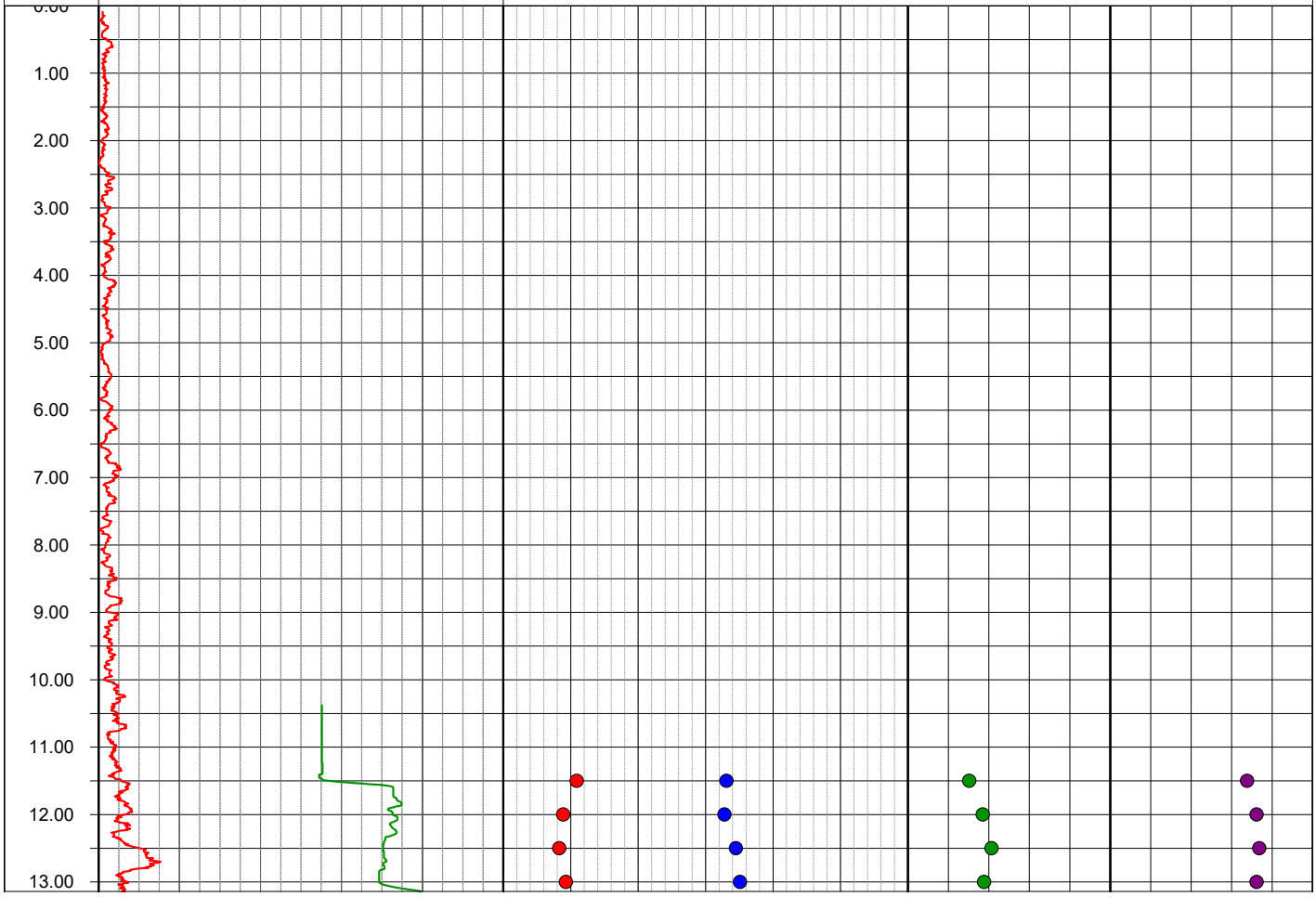
BOREHOLE RECORD (DRILLING)

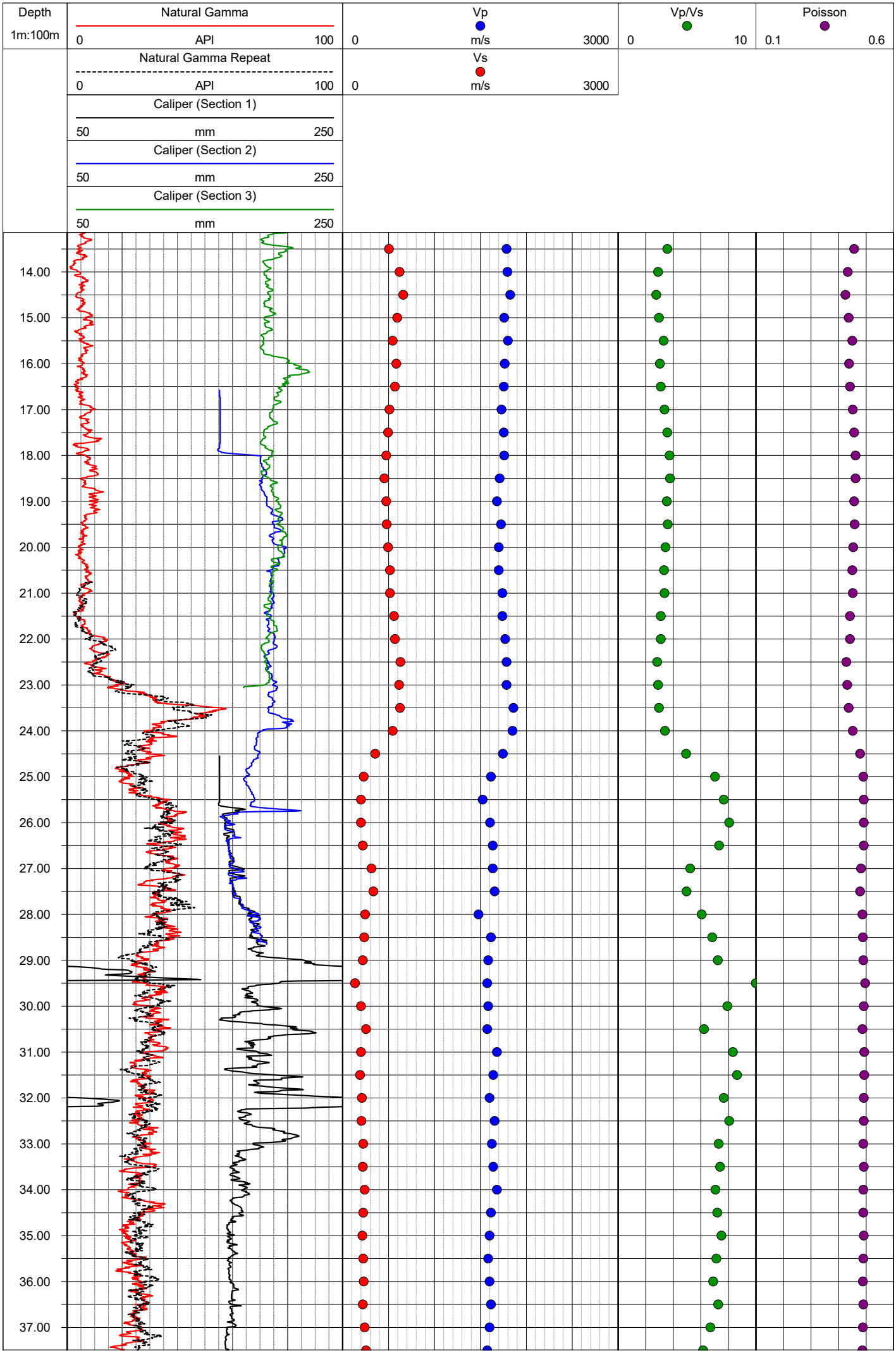
Bit Diameter:	From:	To:
146 mm	0.00 m	55.50 m

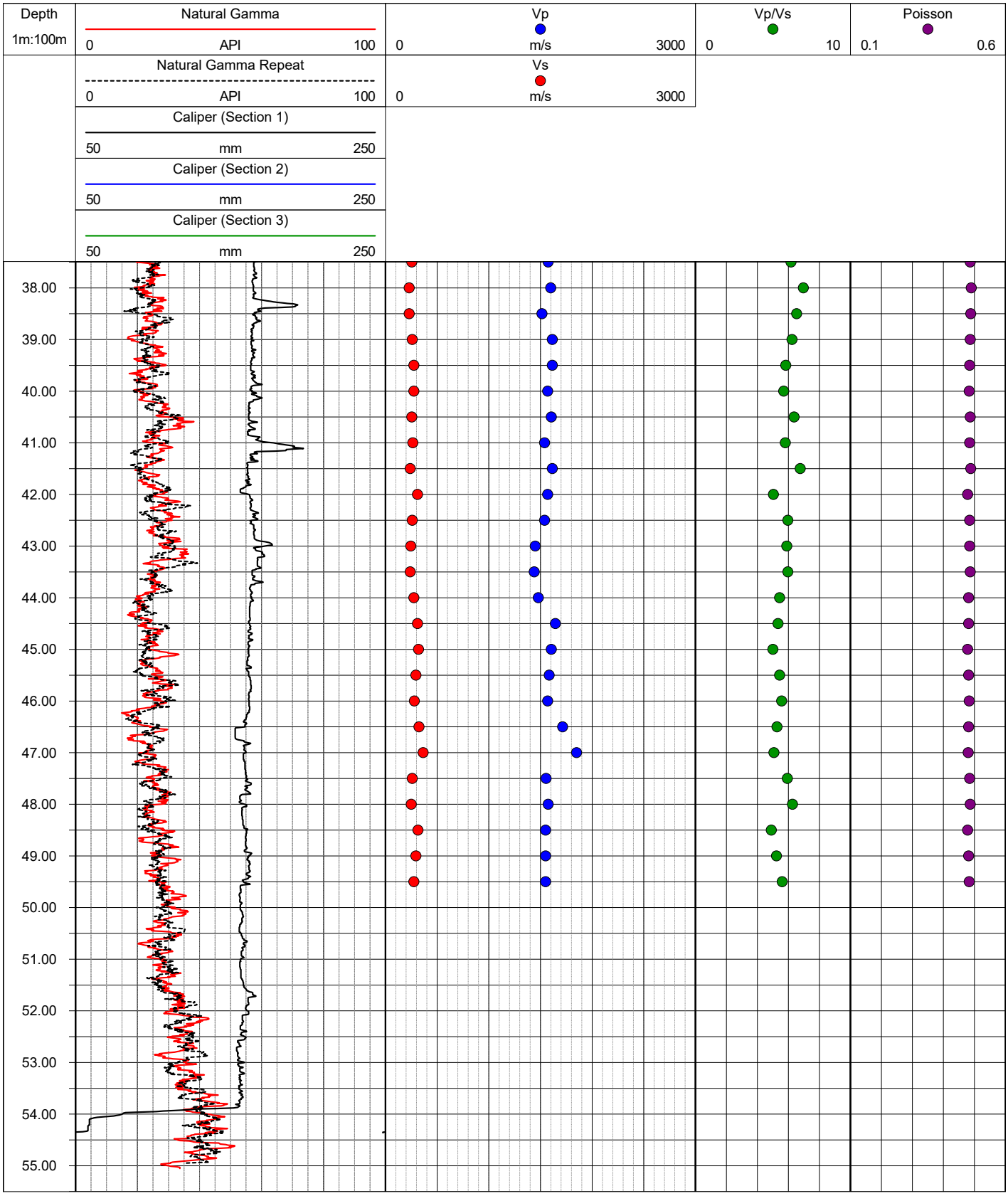
CASING RECORD (DRILLING)

Type:	Size:	From:	To:
Steel	255 mm	-26.50 m	1.00 m
Steel	178 mm	-26.90 m	26.00 m
Steel (NG in casing)	146 mm	-27.50 m	55.50 m

Depth 1m:100m	Natural Gamma 0 API 100	Natural Gamma Repeat 0 API 100	Caliper (Section 1) 50 mm 250	Caliper (Section 2) 50 mm 250	Caliper (Section 3) 50 mm 250	Vp 0 m/s 3000	Vs 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6




Depth
1m:100m
Natural Gamma
0 API 100
Natural Gamma Repeat
0 API 100
Caliper (Section 1)
50 mm 250
Caliper (Section 2)
50 mm 250
Caliper (Section 3)
50 mm 250
Vp
0 m/s 3000
Vs
0 m/s 3000
Vp/Vs
0 10
Poisson
0.1 0.6
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00
37.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma Repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00

OT_SPT_06 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

rr d

WIRELINE GEOPHYSICAL LOG

Type: **Acoustic Televiewer Log**

Client: EDF Energy	Client Representative: Vernacio Carrillo	Logging Date:
Borehole: OT_RB_07	Fugro Site Manager: Colin Mulvey, Callum Murphy	03-04/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 651925.35 N: 264126.19	Grid Reference: OSGB 1936 Elevation: -16.25 mOD
Borehole Depth (Drilling): 111.20 m		Recorded By: W.Cuthbertson, Sz.Boncz Processed By: W.Cuthbertson, Sz.Boncz
Borehole Depth (Wireline): 102.69 m		Remarks:
Logging Datum: mud level		
Logged Interval: 15.80 m - 102.69 m		Logging was carried out in 2 sections. ABI data below 102.7 m is missing due to the borehole filling up continuously during logging of Section 1. Reflected acoustic amplitude is really low between 69.40 – 90.00 and above 26.40 m most probably due to succession dominated by weak clays.
Fluid Level: sea level		

Tadpole / Sine Wave

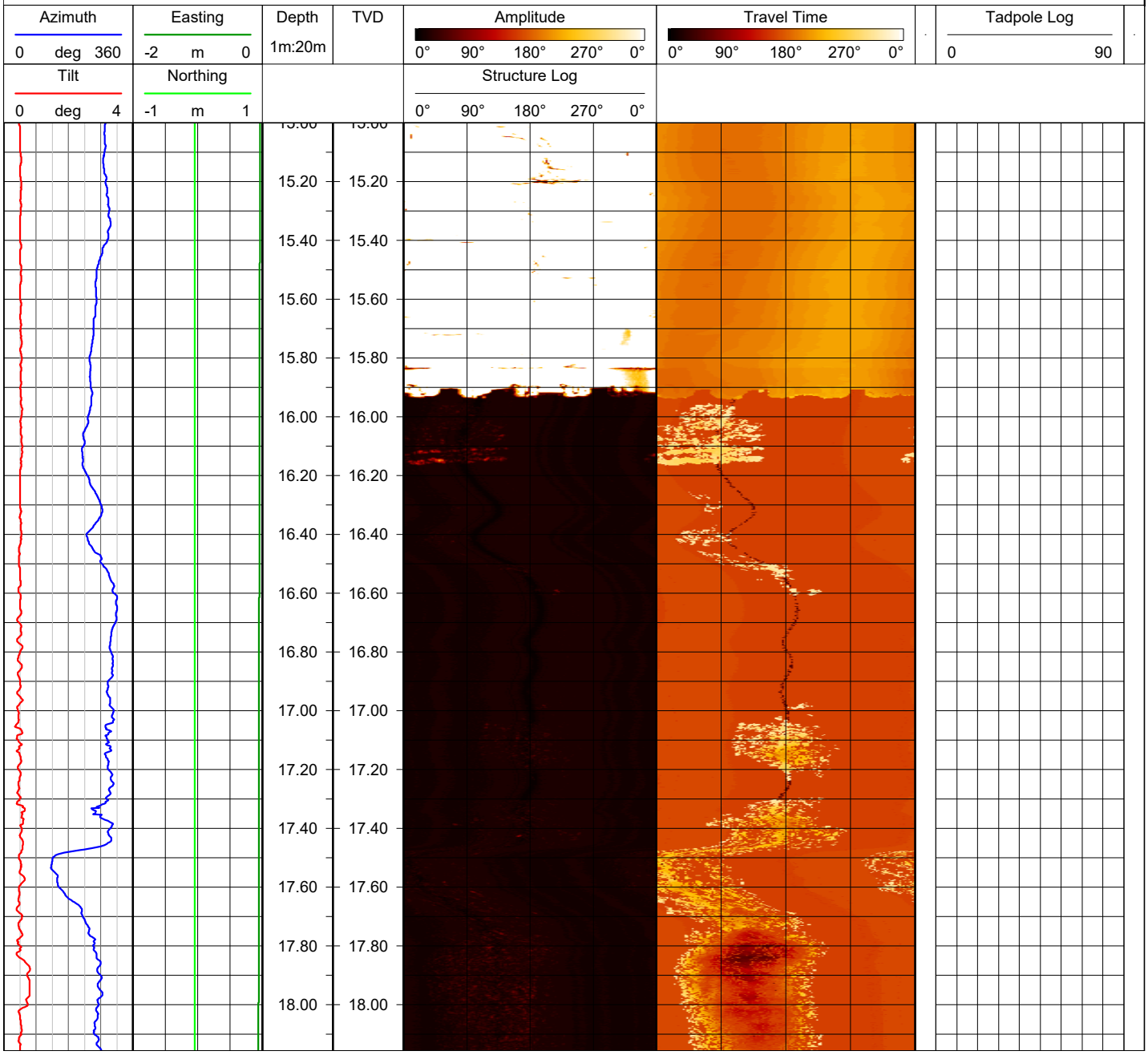
- Major Fracture / Joint - open
- Minor Fracture / Joint - probably open
- Fracture / Joint - not further evaluable
- Fracture / Joint - infilled
- Bedding / Banding / Foliation / Lamination
- Unclassified
- Lithological boundary

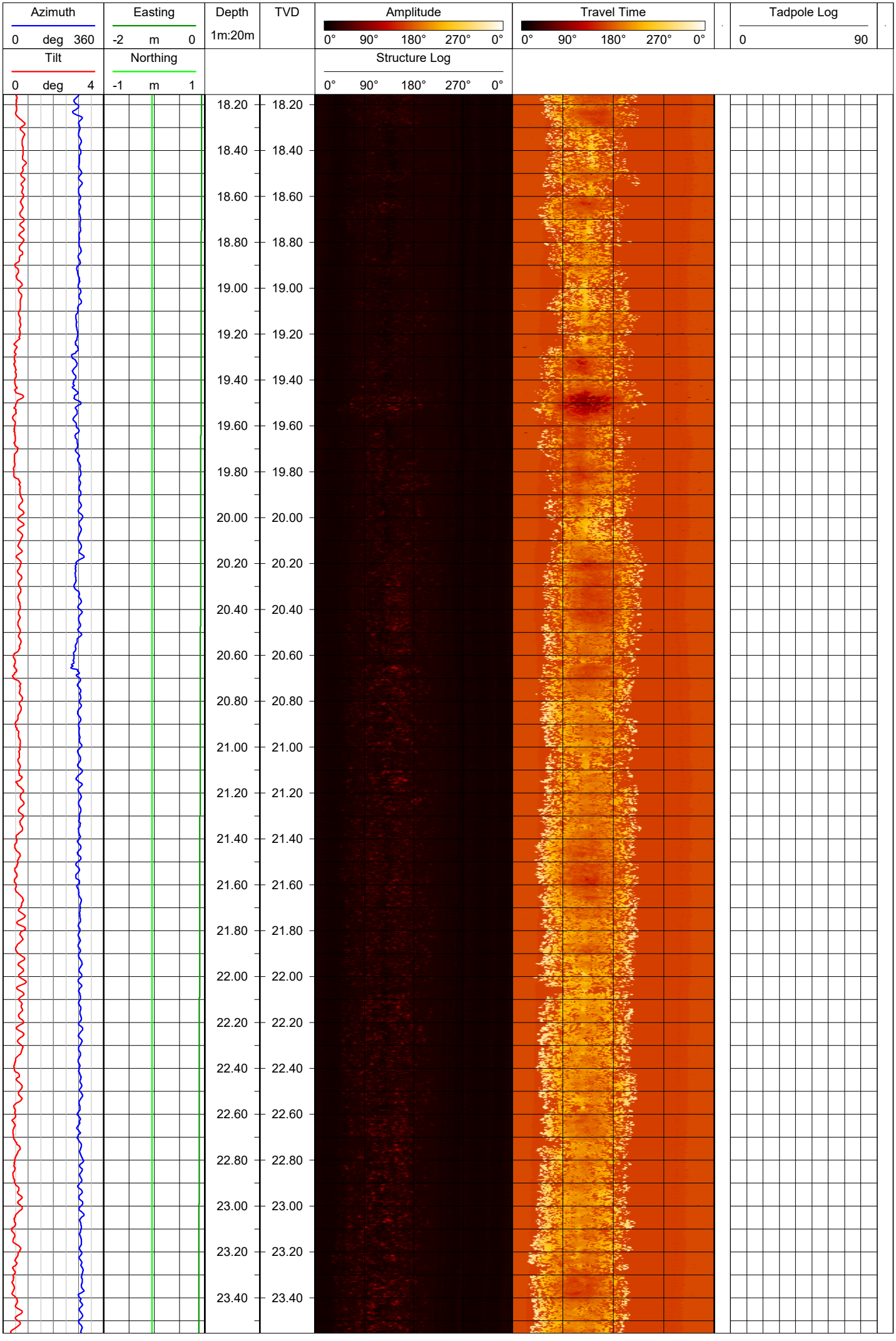
BOREHOLE RECORD (DRILLING)

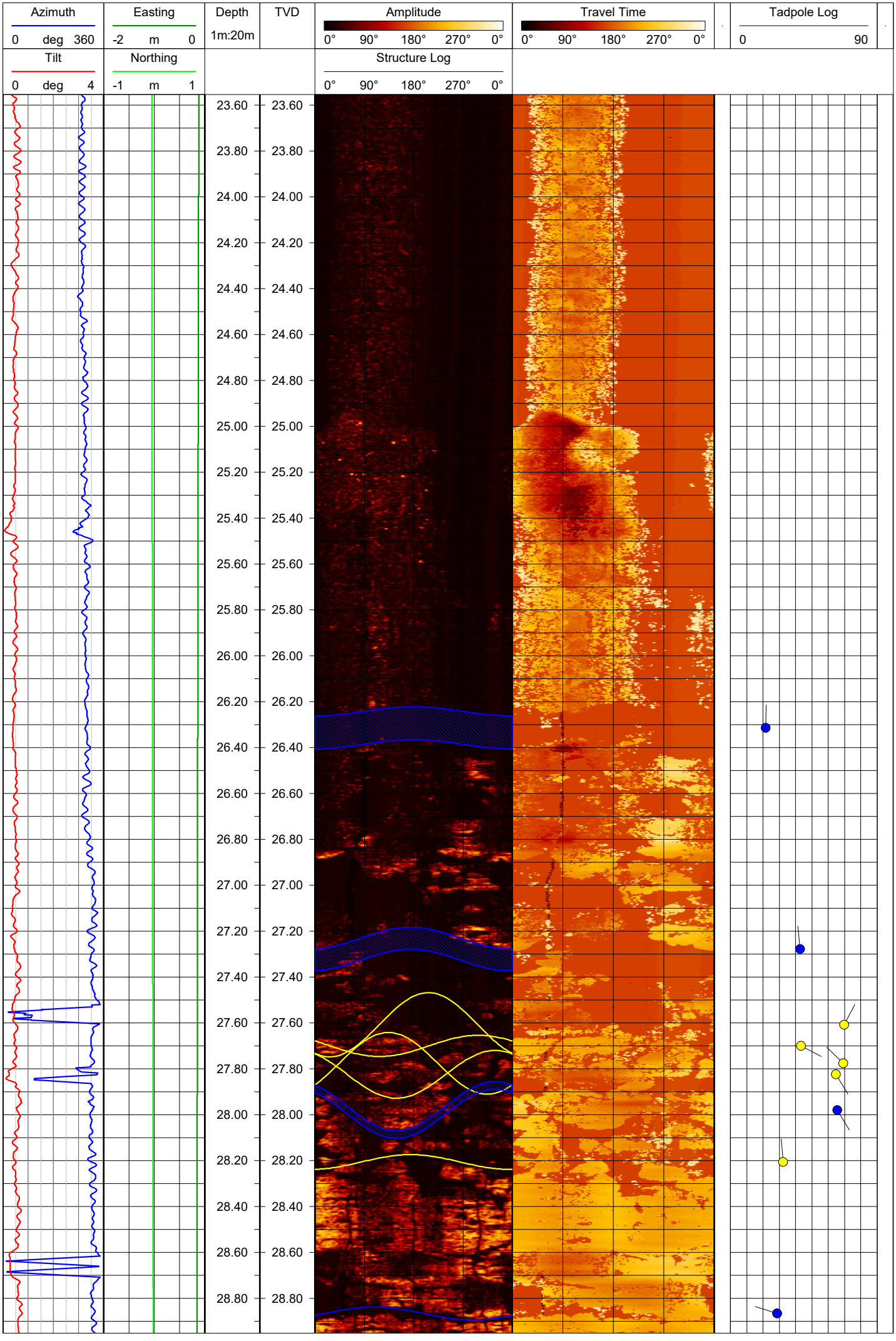
Bit Diameter:	From:	To:
146 mm	0.00 m	111.20 m

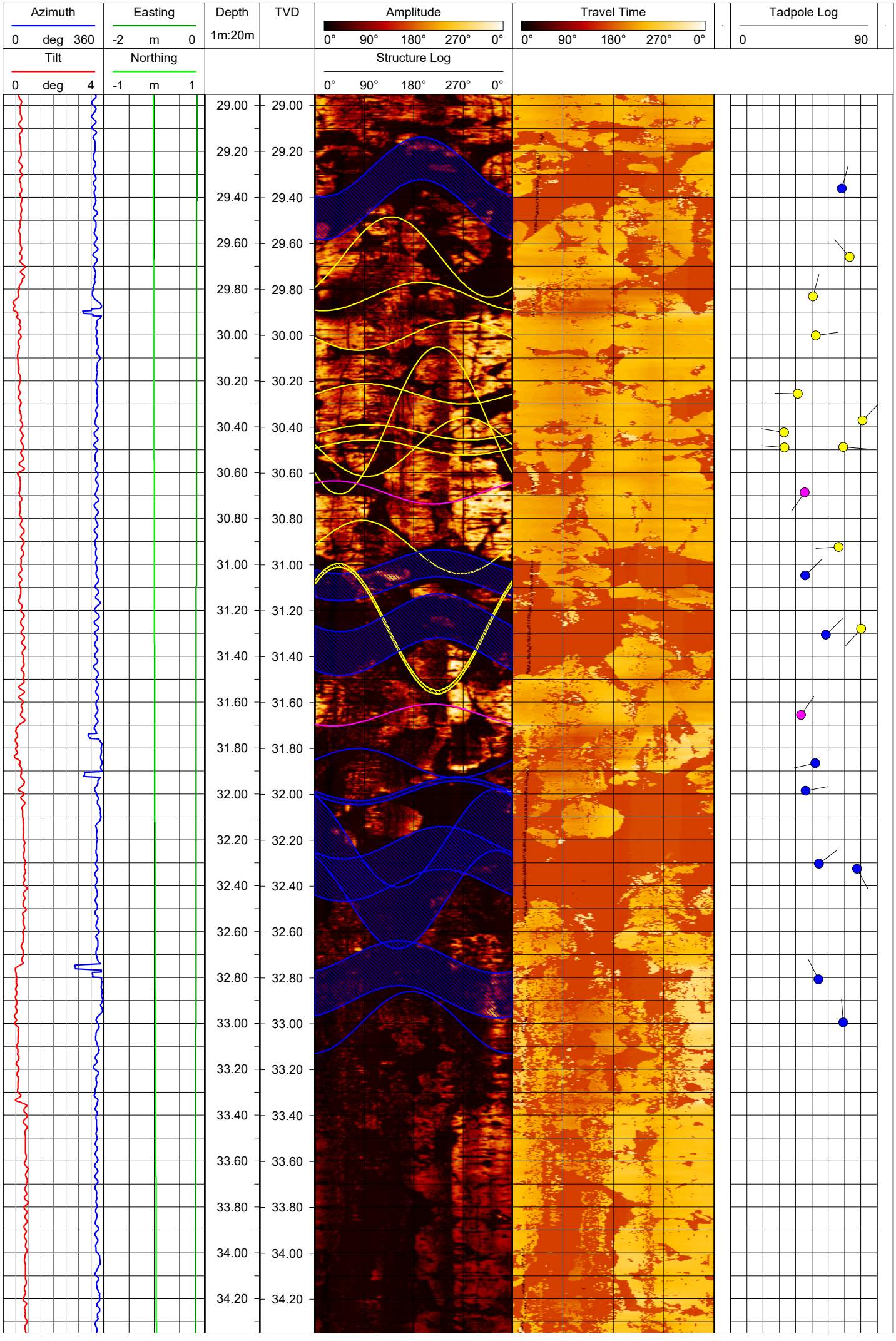
CASING RECORD (DRILLING)

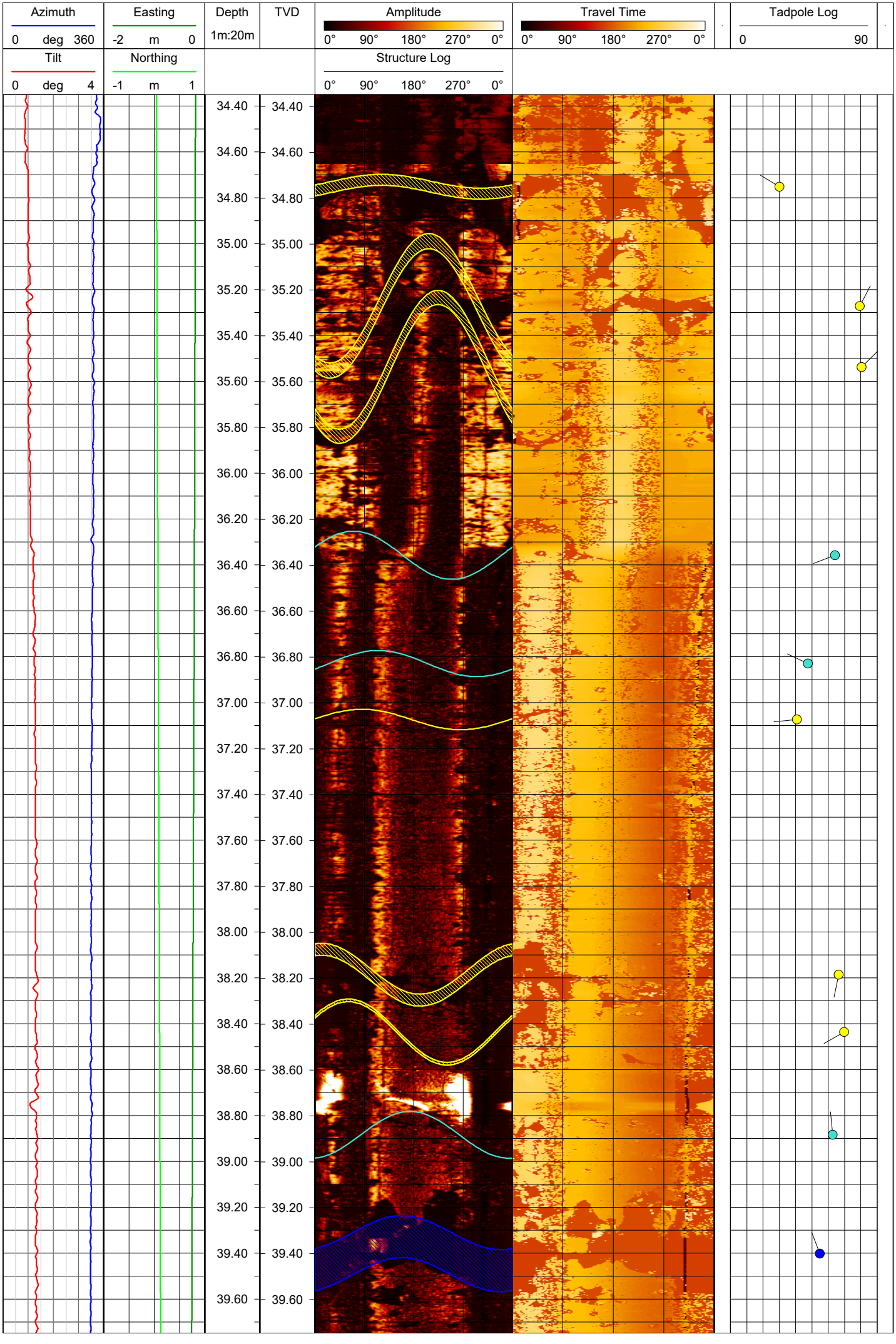
Type:	Size:	From:	To:
Steel	255 mm	-25.30 m	3.50 m
Steel	178 mm	-25.70 m	26.50 m
Steel (NG in casing)	146 mm	-26.30 m	111.20 m

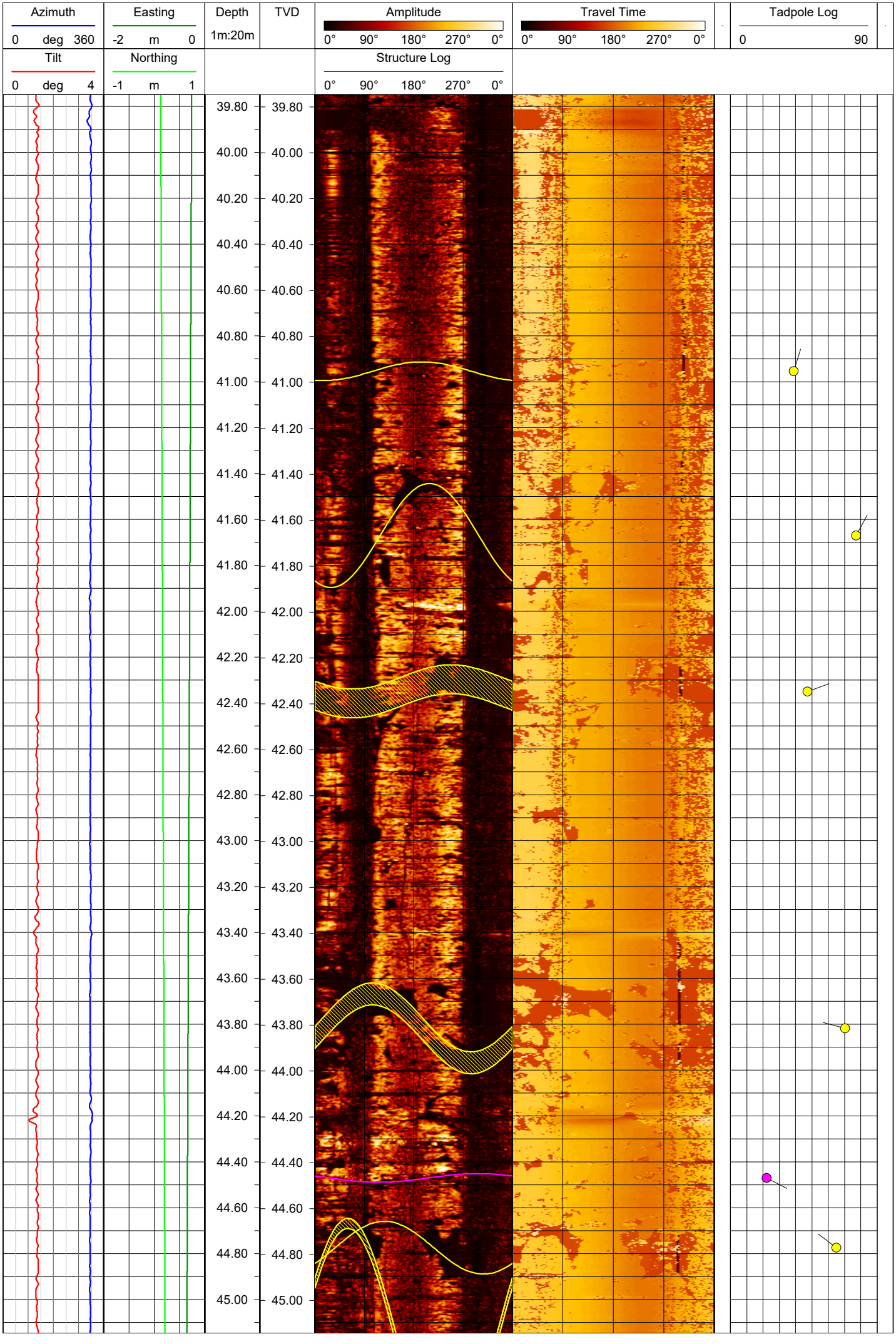


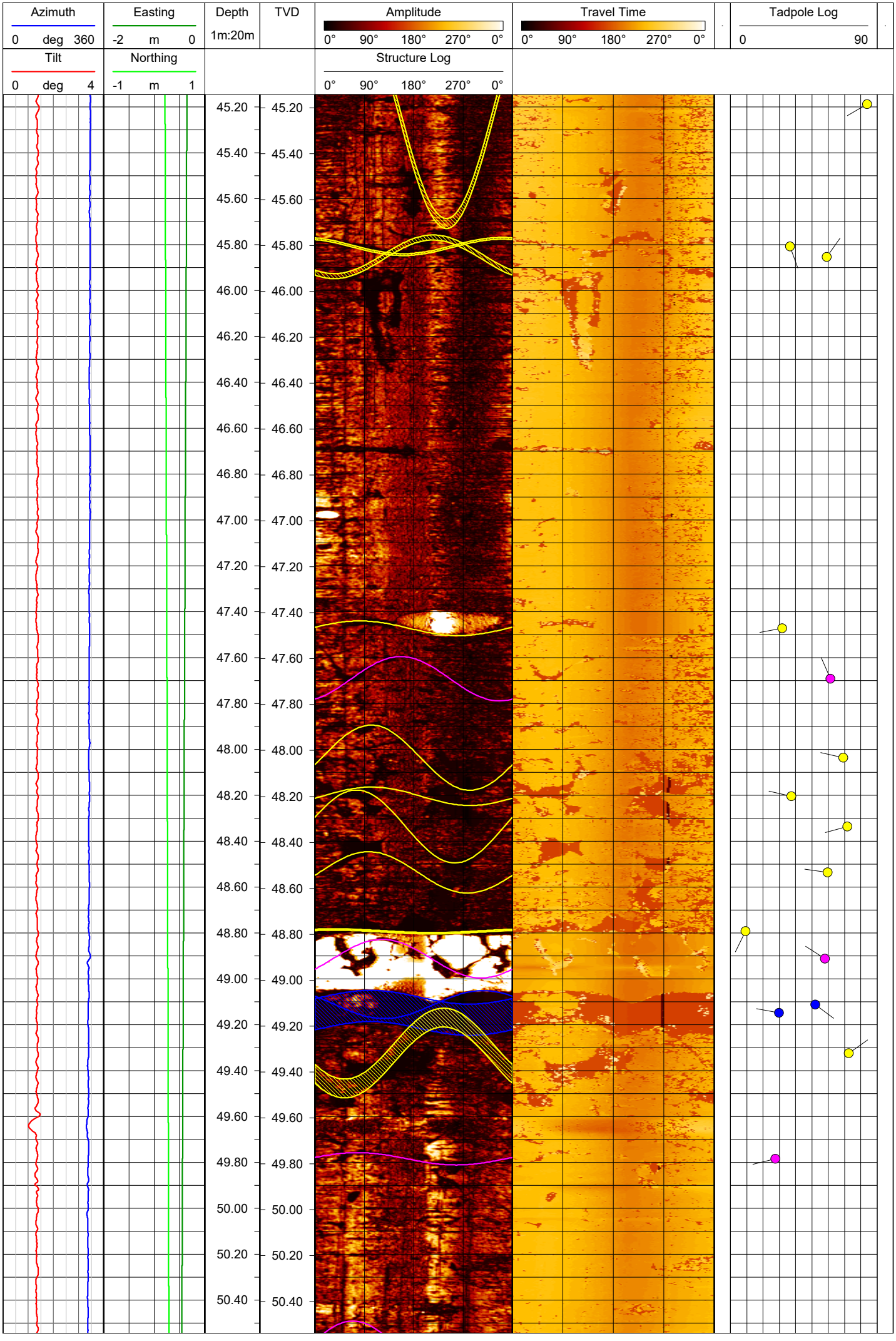

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
18.20
18.40
18.60
18.80
19.00
19.20
19.40
19.60
19.80
20.00
20.20
20.40
20.60
20.80
21.00
21.20
21.40
21.60
21.80
22.00
22.20
22.40
22.60
22.80
23.00
23.20
23.40

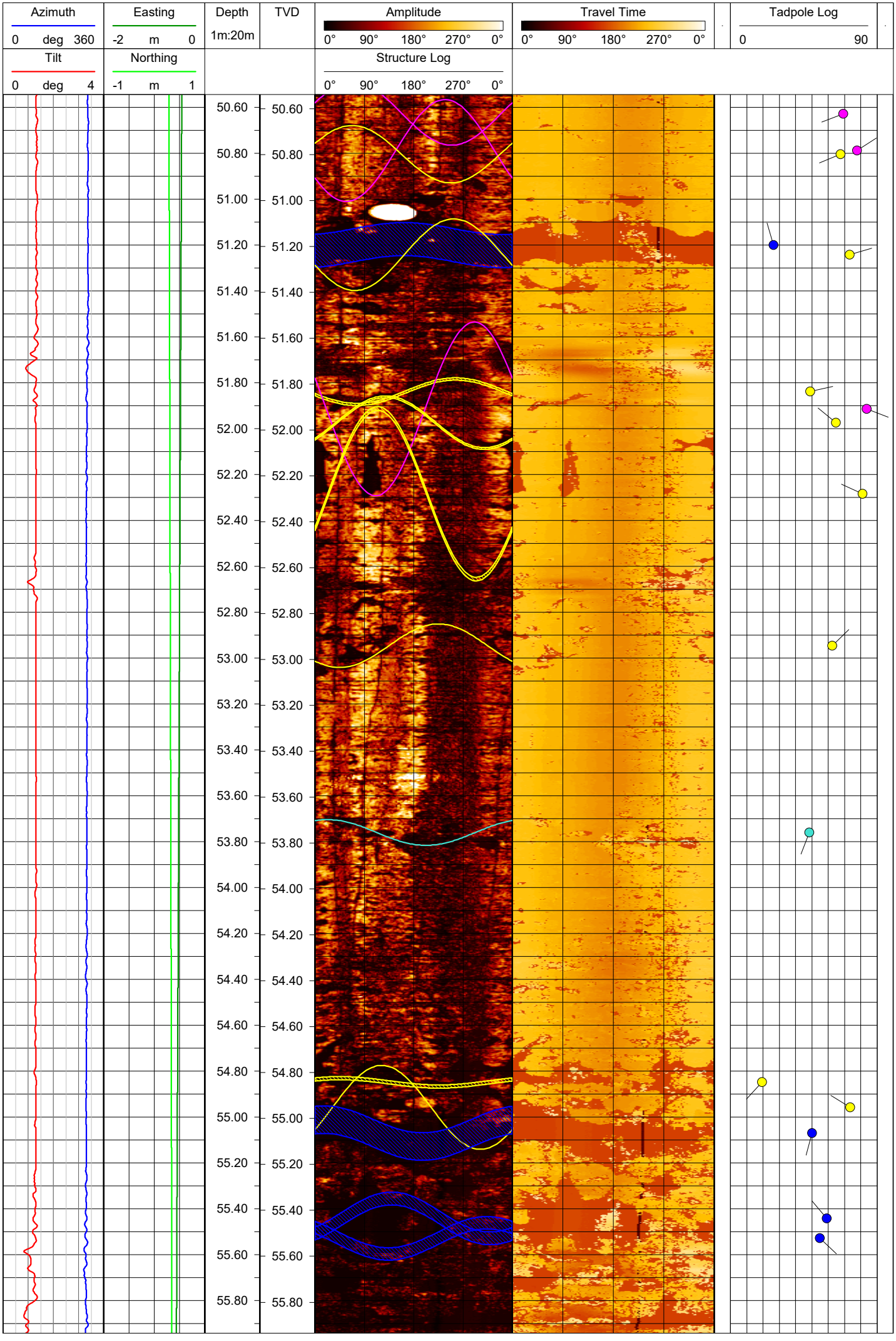

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
23.60
23.80
24.00
24.20
24.40
24.60
24.80
25.00
25.20
25.40
25.60
25.80
26.00
26.20
26.40
26.60
26.80
27.00
27.20
27.40
27.60
27.80
28.00
28.20
28.40
28.60
28.80

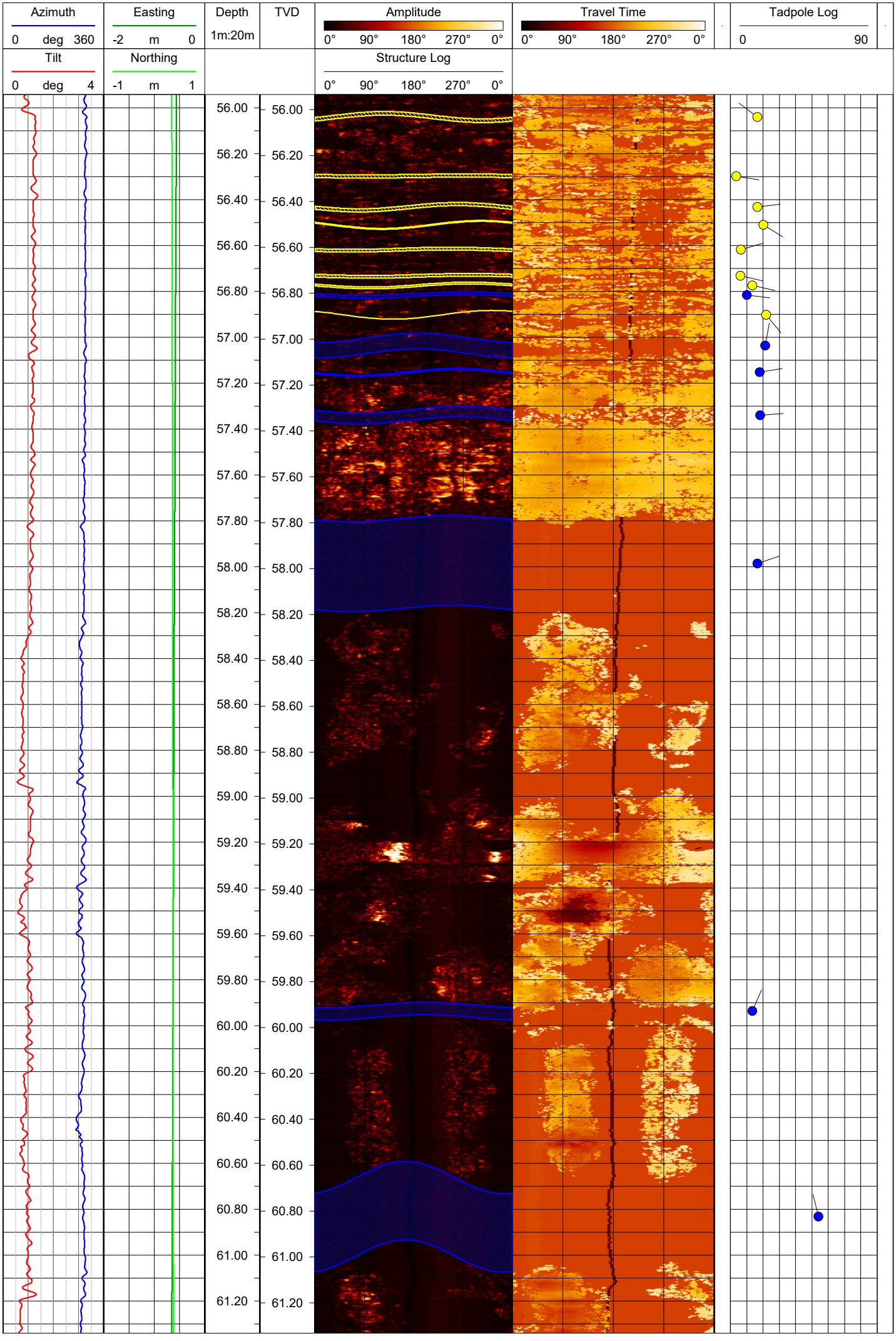

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
29.00
29.20
29.40
29.60
29.80
30.00
30.20
30.40
30.60
30.80
31.00
31.20
31.40
31.60
31.80
32.00
32.20
32.40
32.60
32.80
33.00
33.20
33.40
33.60
33.80
34.00
34.20

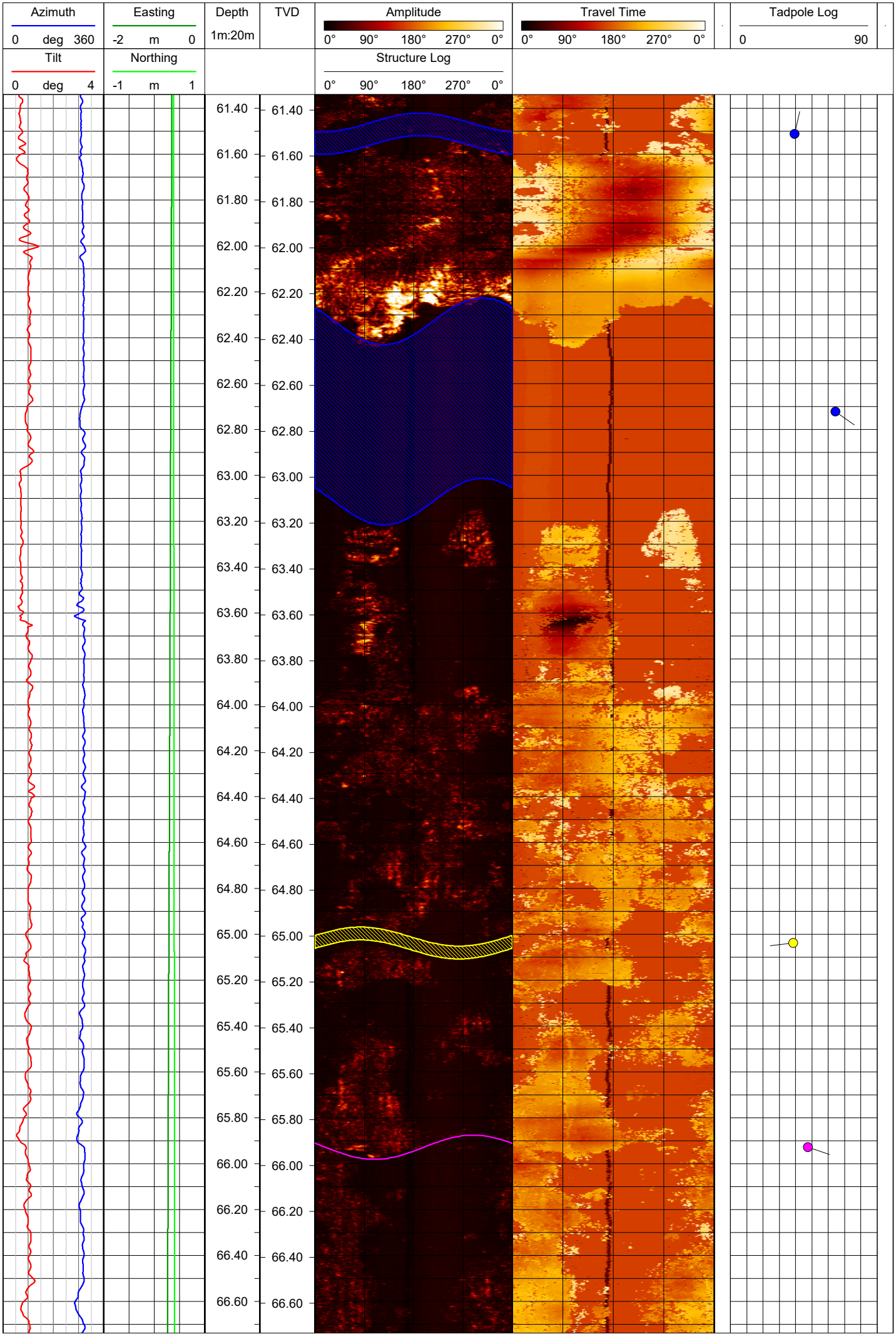

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
34.40
34.60
34.80
35.00
35.20
35.40
35.60
35.80
36.00
36.20
36.40
36.60
36.80
37.00
37.20
37.40
37.60
37.80
38.00
38.20
38.40
38.60
38.80
39.00
39.20
39.40
39.60

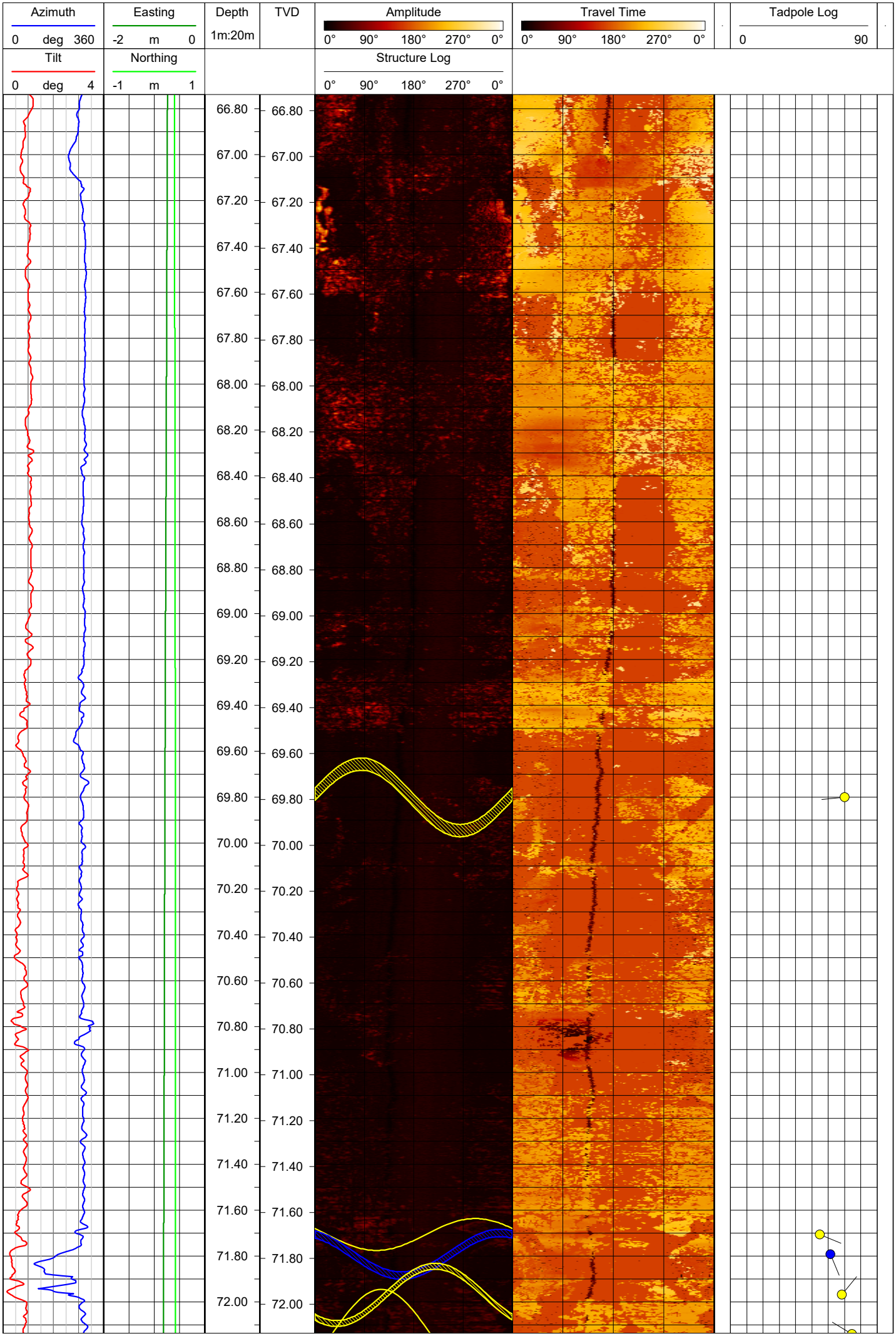

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
39.80
40.00
40.20
40.40
40.60
40.80
41.00
41.20
41.40
41.60
41.80
42.00
42.20
42.40
42.60
42.80
43.00
43.20
43.40
43.60
43.80
44.00
44.20
44.40
44.60
44.80
45.00

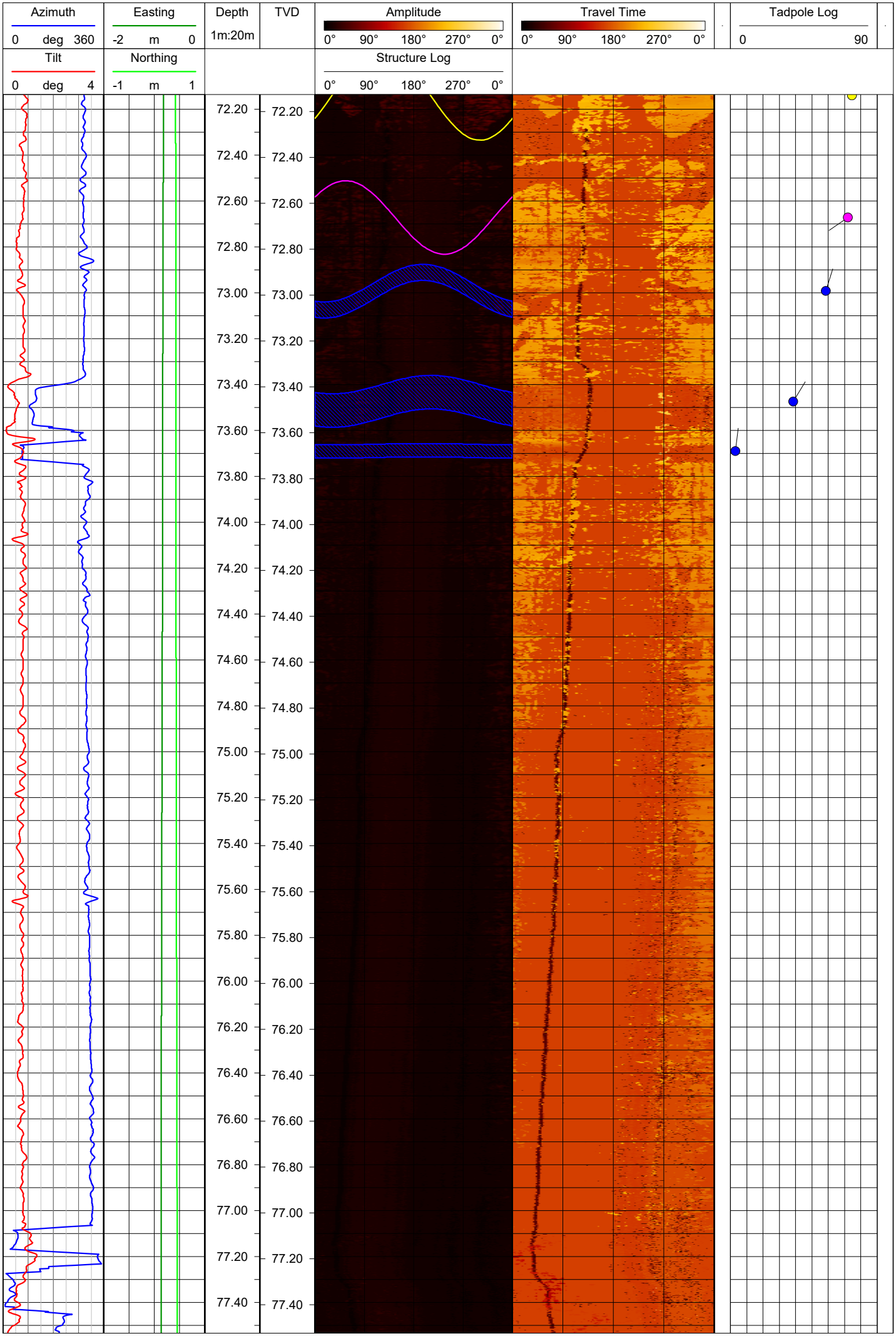

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
45.20
45.40
45.60
45.80
46.00
46.20
46.40
46.60
46.80
47.00
47.20
47.40
47.60
47.80
48.00
48.20
48.40
48.60
48.80
49.00
49.20
49.40
49.60
49.80
50.00
50.20
50.40

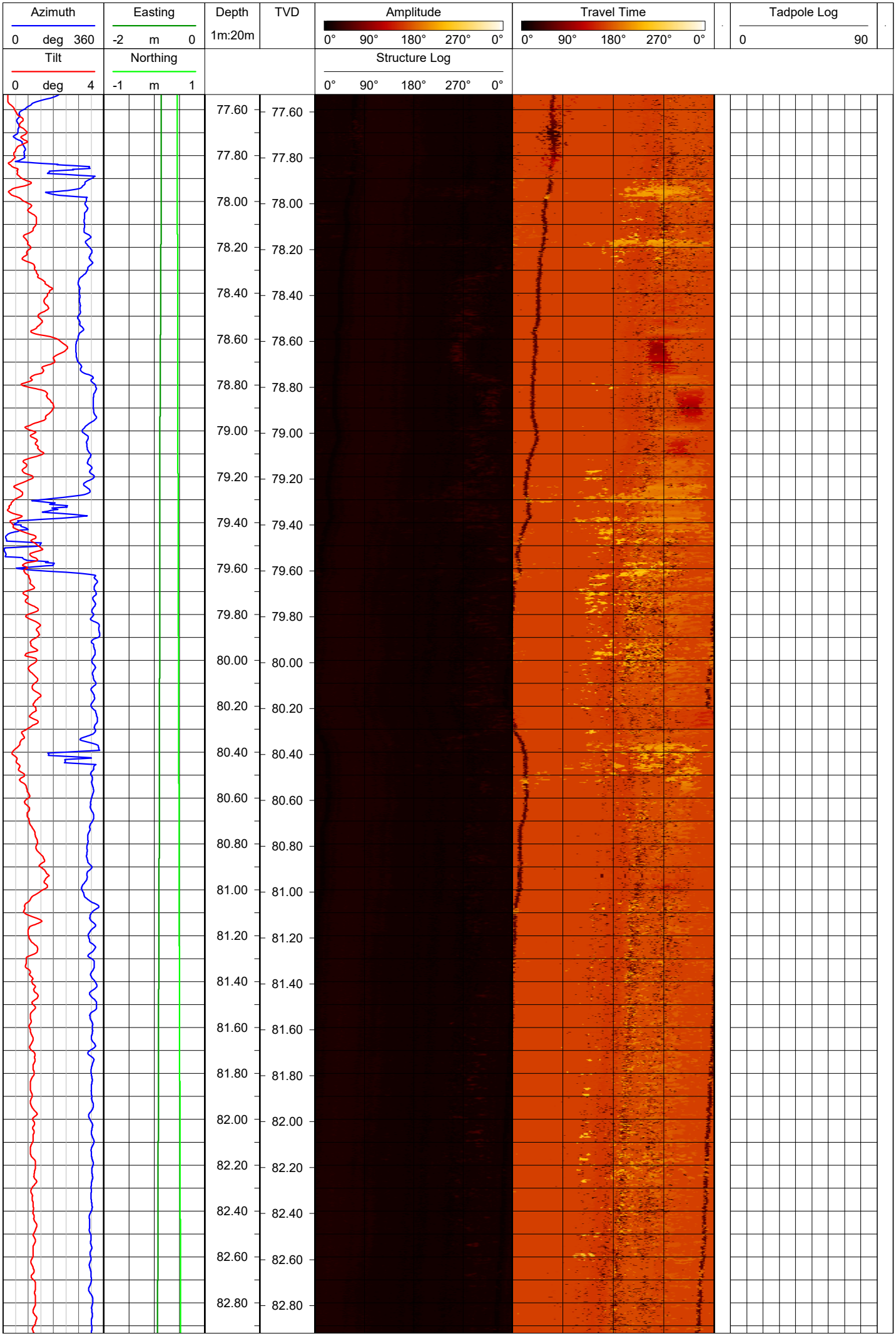

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
50.60
50.80
51.00
51.20
51.40
51.60
51.80
52.00
52.20
52.40
52.60
52.80
53.00
53.20
53.40
53.60
53.80
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54.40
54.60
54.80
55.00
55.20
55.40
55.60
55.80

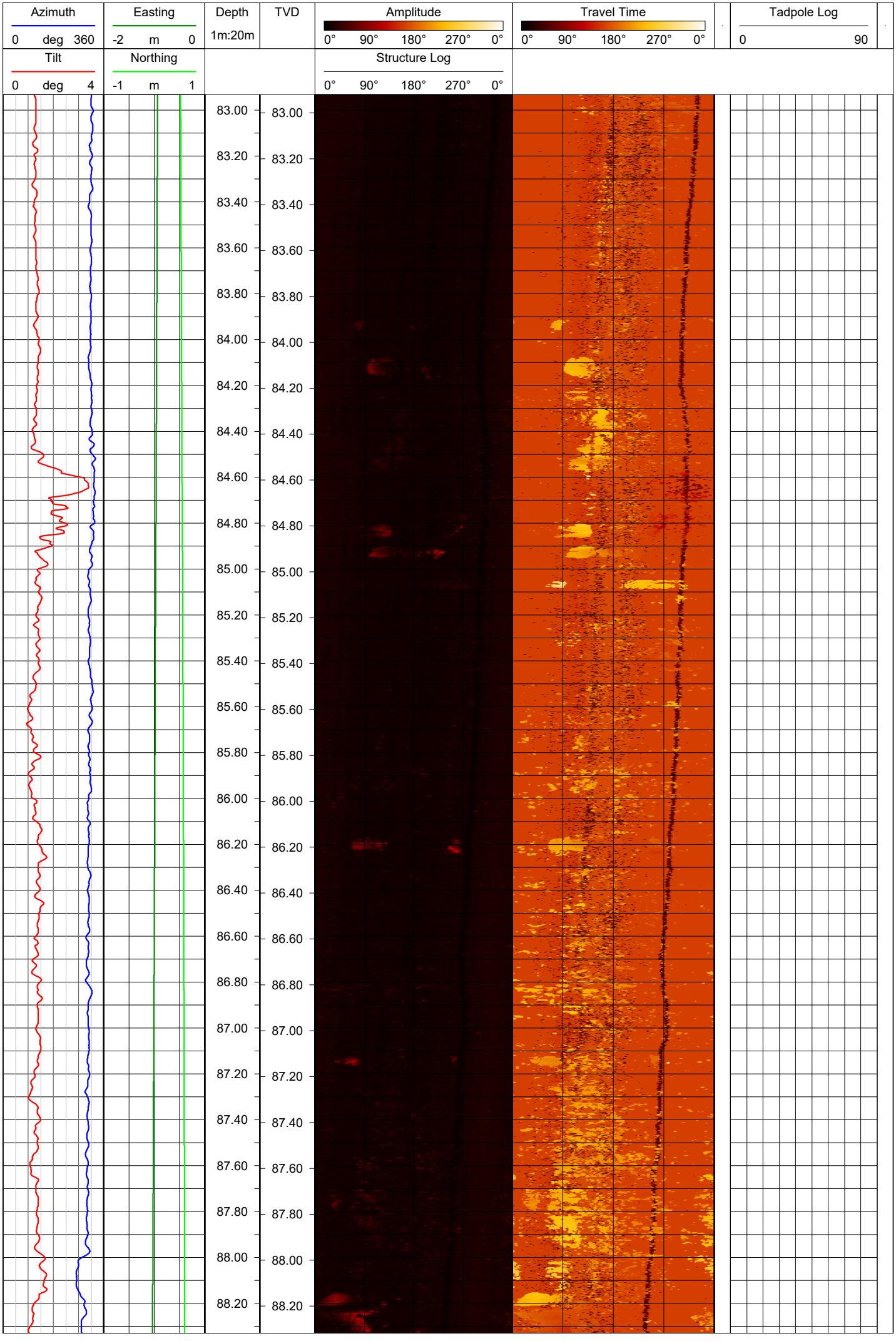

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
56.00
56.20
56.40
56.60
56.80
57.00
57.20
57.40
57.60
57.80
58.00
58.20
58.40
58.60
58.80
59.00
59.20
59.40
59.60
59.80
60.00
60.20
60.40
60.60
60.80
61.00
61.20

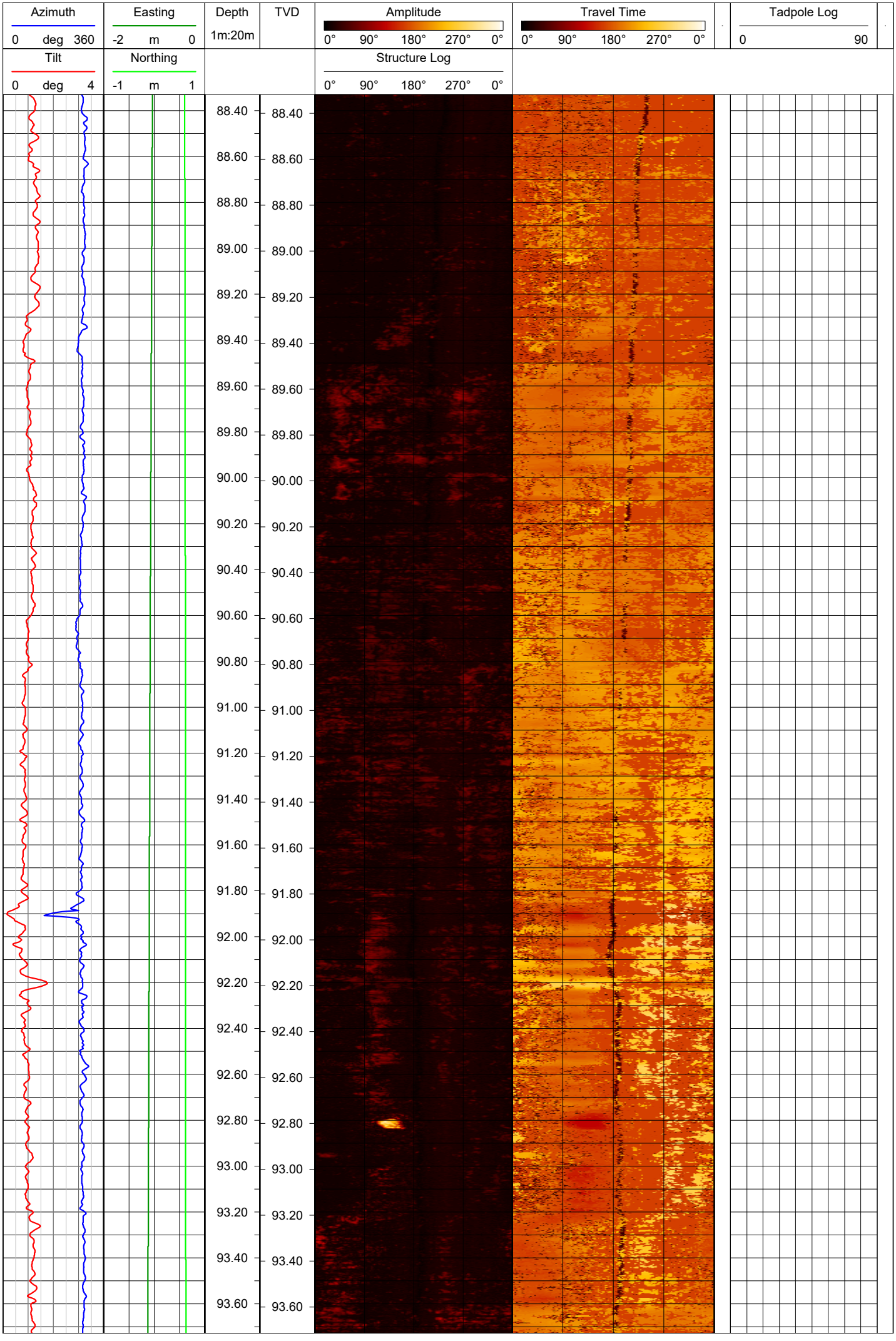

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
61.40
61.60
61.80
62.00
62.20
62.40
62.60
62.80
63.00
63.20
63.40
63.60
63.80
64.00
64.20
64.40
64.60
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65.20
65.40
65.60
65.80
66.00
66.20
66.40
66.60

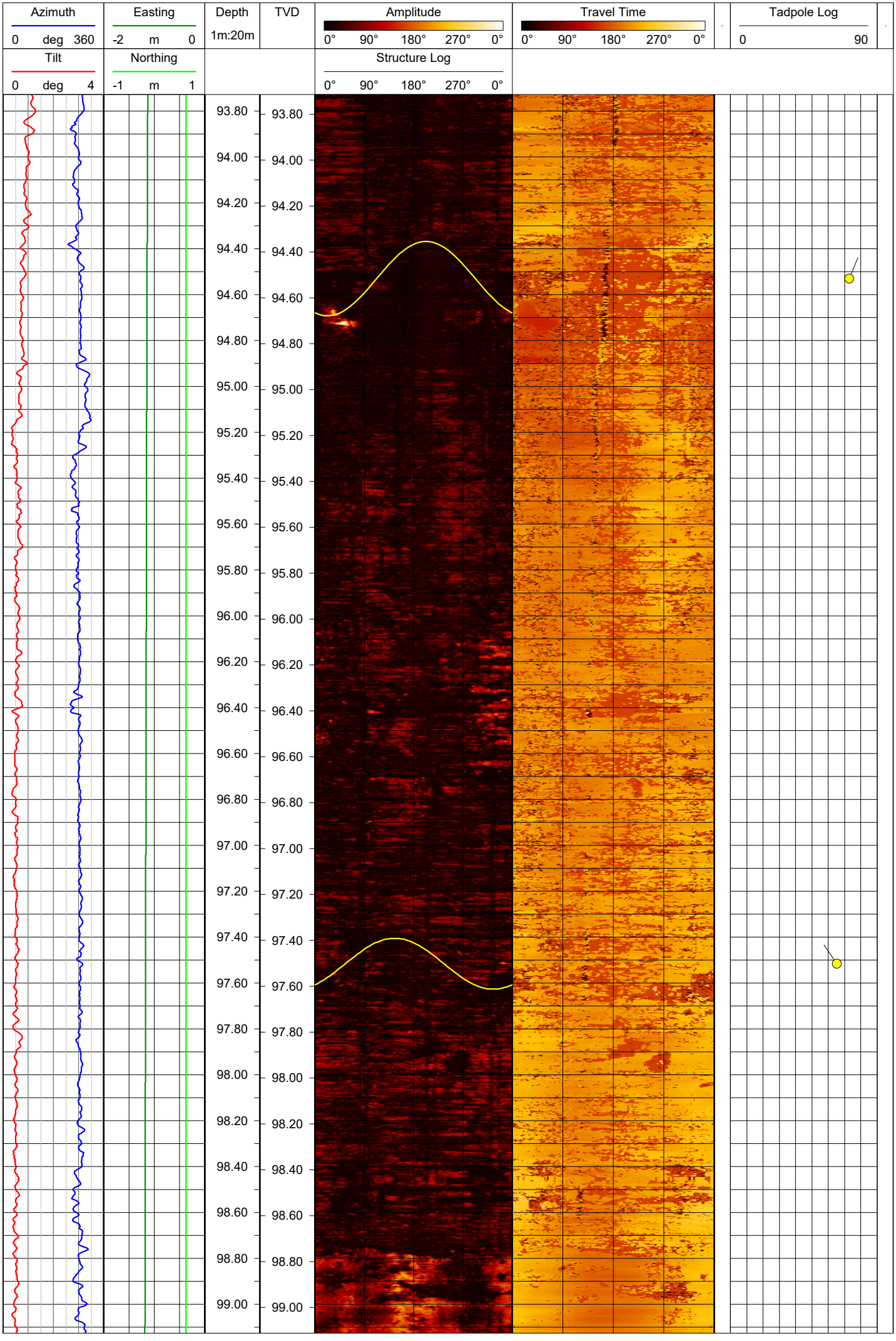

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
66.80
67.00
67.20
67.40
67.60
67.80
68.00
68.20
68.40
68.60
68.80
69.00
69.20
69.40
69.60
69.80
70.00
70.20
70.40
70.60
70.80
71.00
71.20
71.40
71.60
71.80
72.00

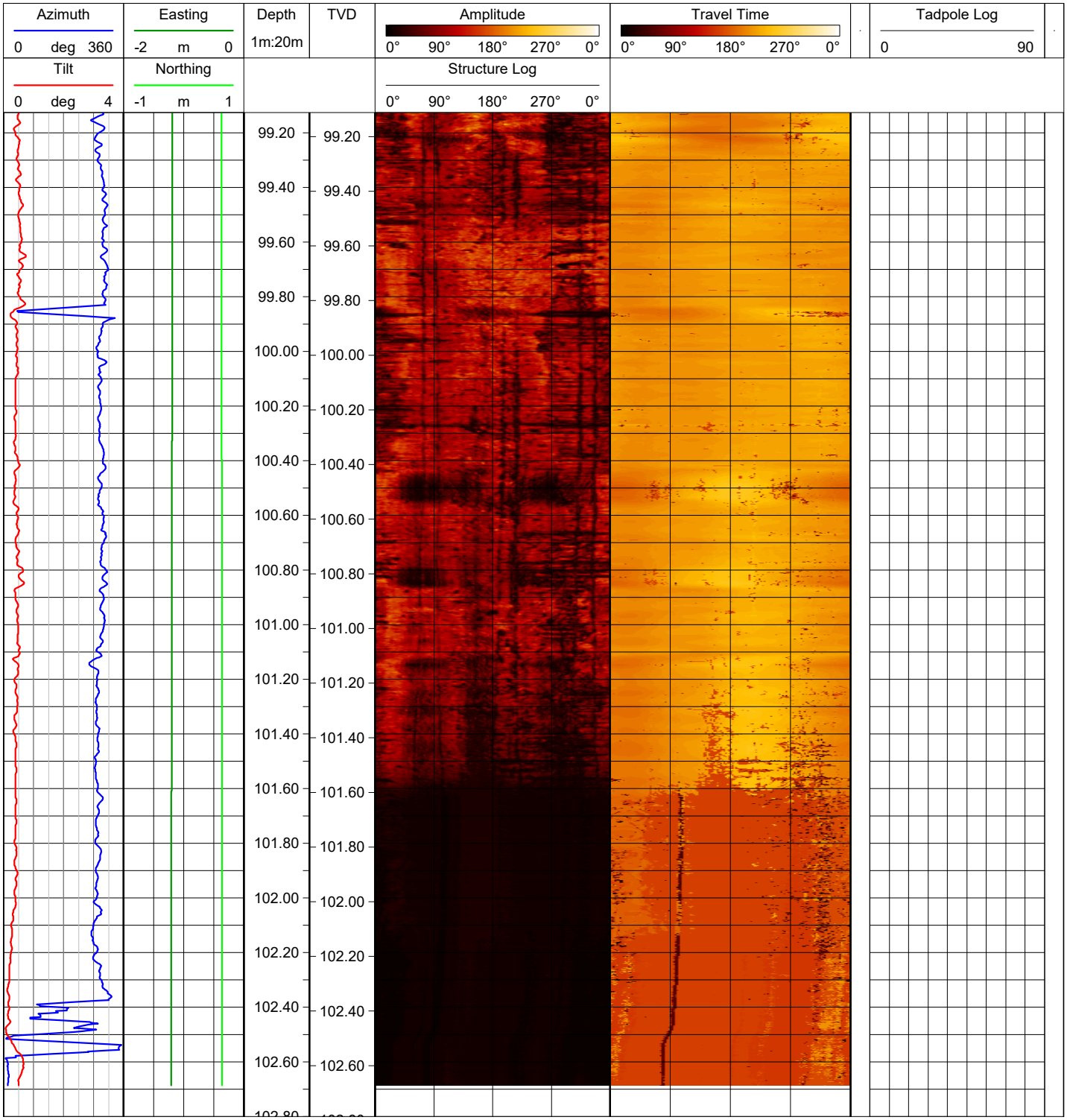

Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
72.20
72.40
72.60
72.80
73.00
73.20
73.40
73.60
73.80
74.00
74.20
74.40
74.60
74.80
75.00
75.20
75.40
75.60
75.80
76.00
76.20
76.40
76.60
76.80
77.00
77.20
77.40


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
77.60
77.80
78.00
78.20
78.40
78.60
78.80
79.00
79.20
79.40
79.60
79.80
80.00
80.20
80.40
80.60
80.80
81.00
81.20
81.40
81.60
81.80
82.00
82.20
82.40
82.60
82.80


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
83.00
83.20
83.40
83.60
83.80
84.00
84.20
84.40
84.60
84.80
85.00
85.20
85.40
85.60
85.80
86.00
86.20
86.40
86.60
86.80
87.00
87.20
87.40
87.60
87.80
88.00
88.20


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
88.40
88.60
88.80
89.00
89.20
89.40
89.60
89.80
90.00
90.20
90.40
90.60
90.80
91.00
91.20
91.40
91.60
91.80
92.00
92.20
92.40
92.60
92.80
93.00
93.20
93.40
93.60


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
93.80
94.00
94.20
94.40
94.60
94.80
95.00
95.20
95.40
95.60
95.80
96.00
96.20
96.40
96.60
96.80
97.00
97.20
97.40
97.60
97.80
98.00
98.20
98.40
98.60
98.80
99.00


Azimuth
0 deg 360
Tilt
0 deg 4
Easting
-2 m 0
Northing
-1 m 1
Depth
1m:20m
TVD
Amplitude
0° 90° 180° 270° 0°
Structure Log
0° 90° 180° 270° 0°
Travel Time
0° 90° 180° 270° 0°
Tadpole Log
0 90
99.20
99.40
99.60
99.80
100.00
100.20
100.40
100.60
100.80
101.00
101.20
101.40
101.60
101.80
102.00
102.20
102.40
102.60

OT_RB_07 Discontinuity Table

Depth (m)	Azimuth (deg)	Dip (deg)	Type
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Depth (m)	Azimuth (deg)	Dip (deg)	Type
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Depth (m)	Azimuth (deg)	Dip (deg)	Type
□□□.□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□.□□	□□□	□□	□ □□□□□□□□d
□□□.□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□.□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□.□□	□□□	□□	M□□□r□□ □□□□□□□□□□□r□□□□r□□□□
□□□.□□	□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□.□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□.□□	□□□	□□	□ □□□□□□□□d
□□□.□□	□□	□□	M□□□r□□ □□□□□□□□□□□r□□□□r□□□□
□□□.□□	□□	□□	M□□□r□□ □□□□□□□□□□□r□□□□r□□□□
□□□.□□	□	□	M□□□r□□ □□□□□□□□□□□r□□□□r□□□□
□□□.□□	□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□
□□□.□□	□□□	□□	M□□□r□□ □□□□□□□□□□□□□r□□□□r□□□□r□□□□□□□□□□

FUGRO

Client: EDF Energy

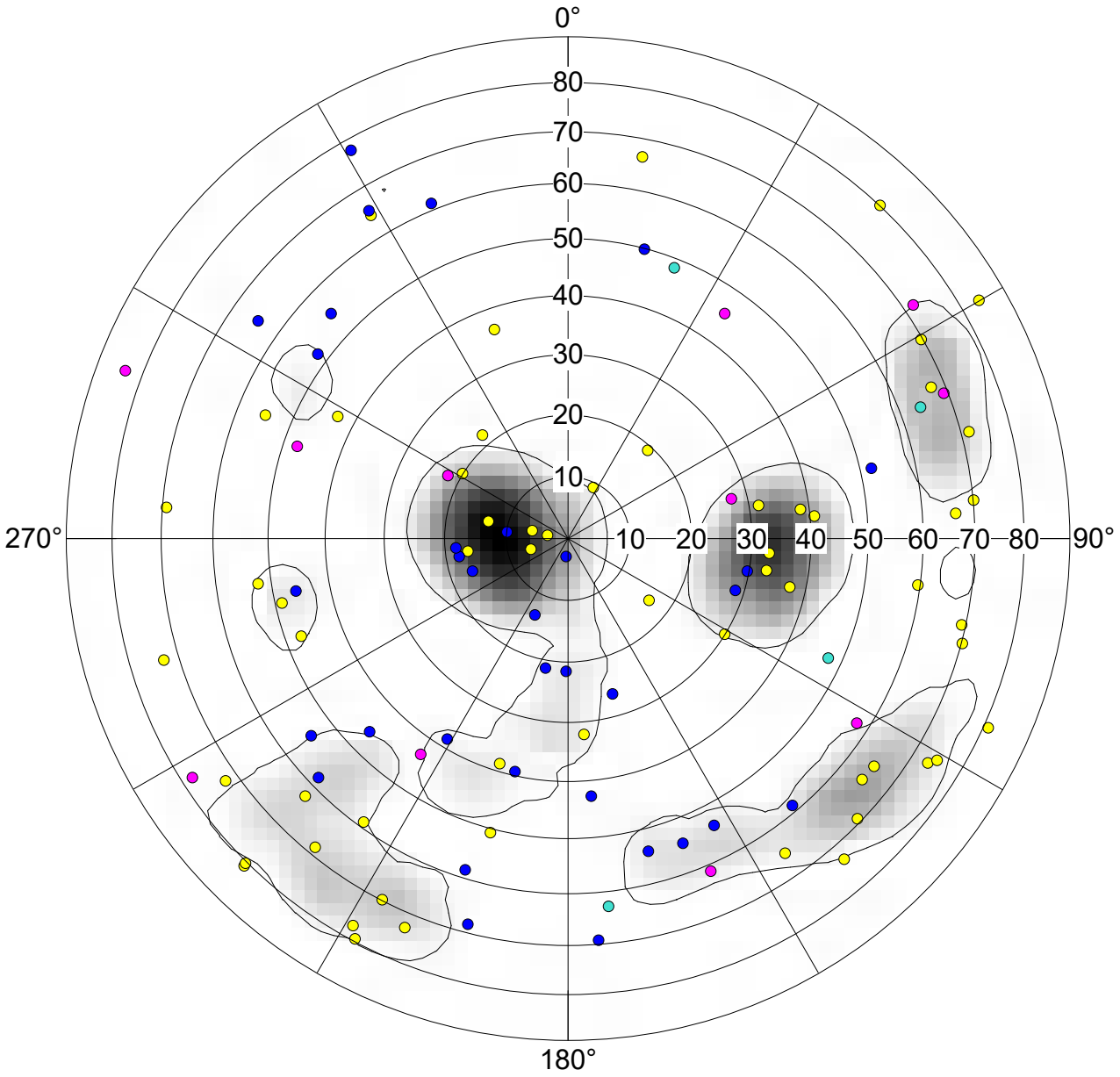
Project: Ground Investigation - Sizewell C

Borehole: **OT_RB_07** Log Title: **Polar Plot**

Tadpole | Sine Wave

- Major Fracture / Joint - open
- Minor Fracture / Joint - probably open
- Fracture / Joint - not further evaluable
- Fracture / Joint - infilled
- Bedding / Banding / Foliation / Lamination
- Unclassified
- Lithological boundary

Schmidt Plot - LH - Type
Depth: 0.00 [m] to 110.00 [m]



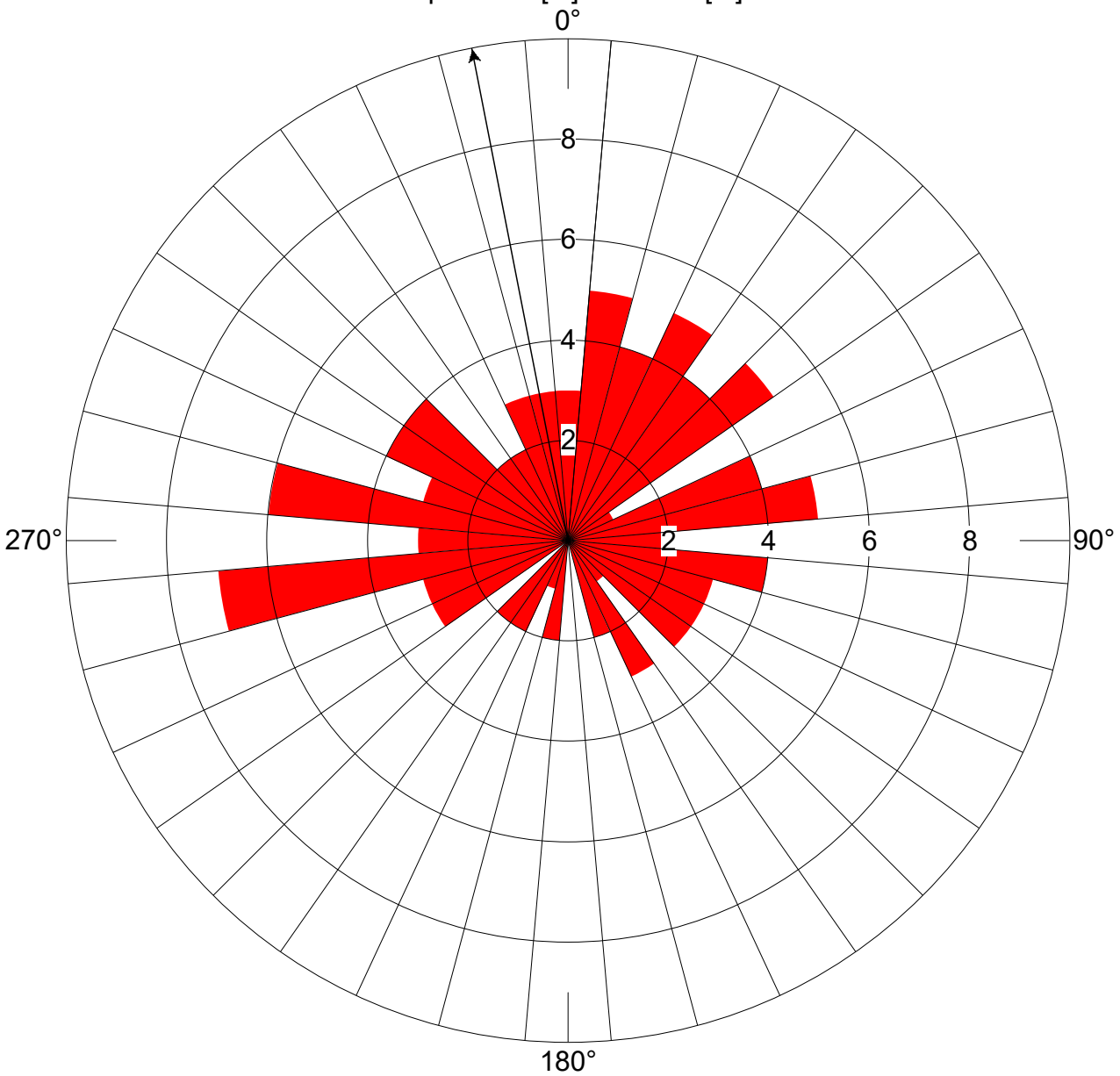
	Counts	Dip[deg]	Azi[deg]
Mean	107	20.93	348.90
●	33	26.53	15.21
●	59	41.88	277.16
●	11	67.42	258.87
●	4	45.19	260.19

Client: EDF Energy

Project: Ground Investigation - Sizewell C

Borehole: **OT_RB_07** Log Title: **Rose Plot**

Azimuth - Absolute (Count)
Depth: 0.00 [m] to 110.00 [m]



Components:	Azimuth
Counts:	107.00
Mean (3D):	348.90
Min:	0.94
Max:	355.62

FUGRO	WIRELINE GEOPHYSICAL LOG	Type: **Natural Gamma, Caliper and P&S Wave Suspension Log**
	Client: EDF Energy	Client Representative: Vernacio Carrillo — Logging Date:
	Borehole: OT_RB_07	Fugro Site Manager: Colin Mulvey, Callum Murphy — 03-04/07/2019
Project No.: G190016U	Project Title: Ground Investigation - Sizewell C	Log Approved by: B. Rigler
Country: UK	Position: E: 651925.35 N: 264126.19	Grid Reference: OSGB 1936 — Elevation: -16.25 mOD
Borehole Depth (Drilling): 111.20 m		Recorded By: W.Cuthbertson, Sz.Boncz — Processed By: W.Cuthbertson, Sz.Boncz
Borehole Depth (Wireline): 110.32 m		Remarks:
Logging Datum: mud level		Natural Gamma was logged in steel casing. PS Logging was carried out in 3 sections.
Logged Interval: 0.00 m - 110.32 m		PS Logger data is missing below 95.00 m due to the borehole filling up continuously during logging of Section 1.
Fluid Level: sea level		Stricture at 88.00 m depth on caliper was clear during subsequent runs.

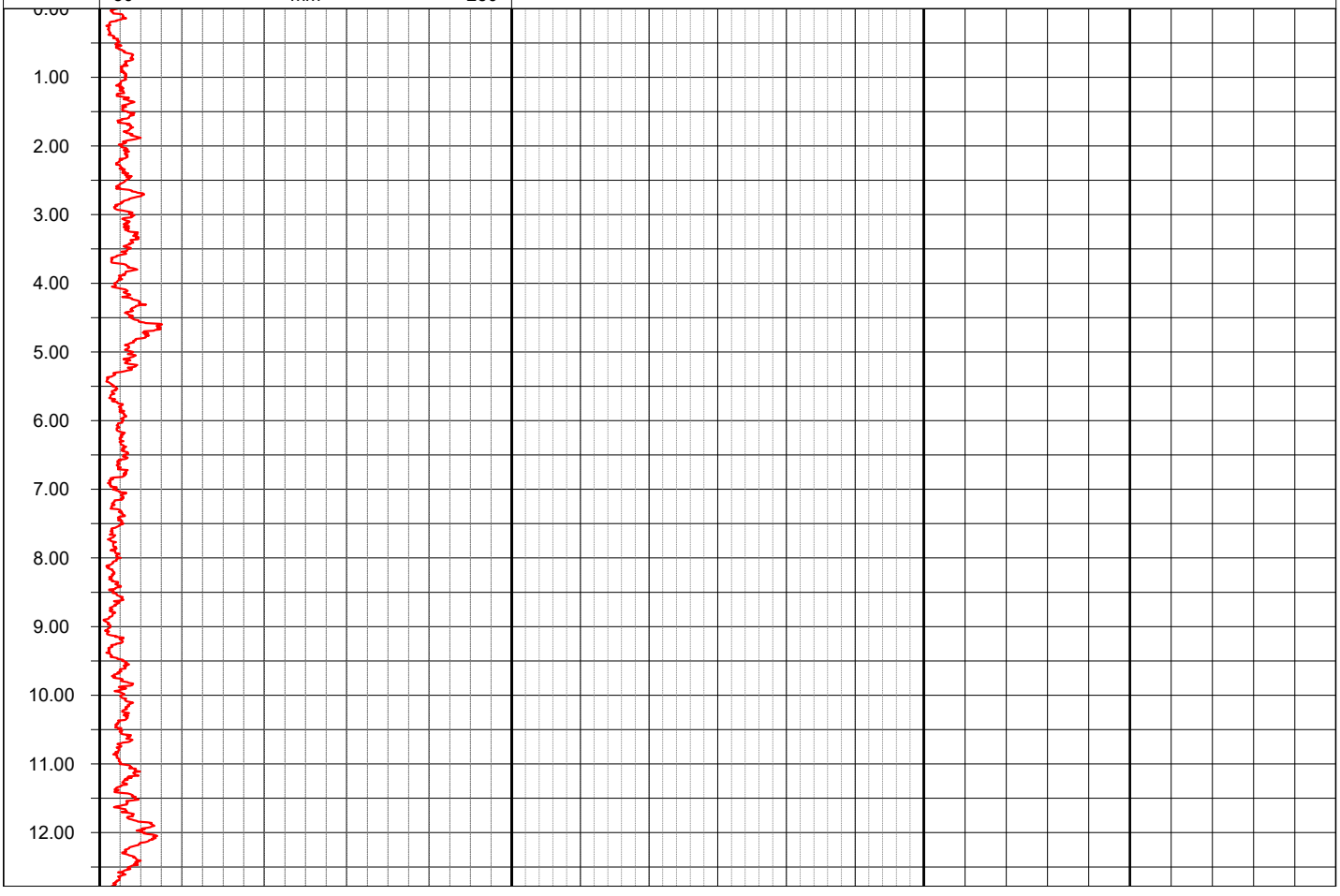
BOREHOLE RECORD (DRILLING)

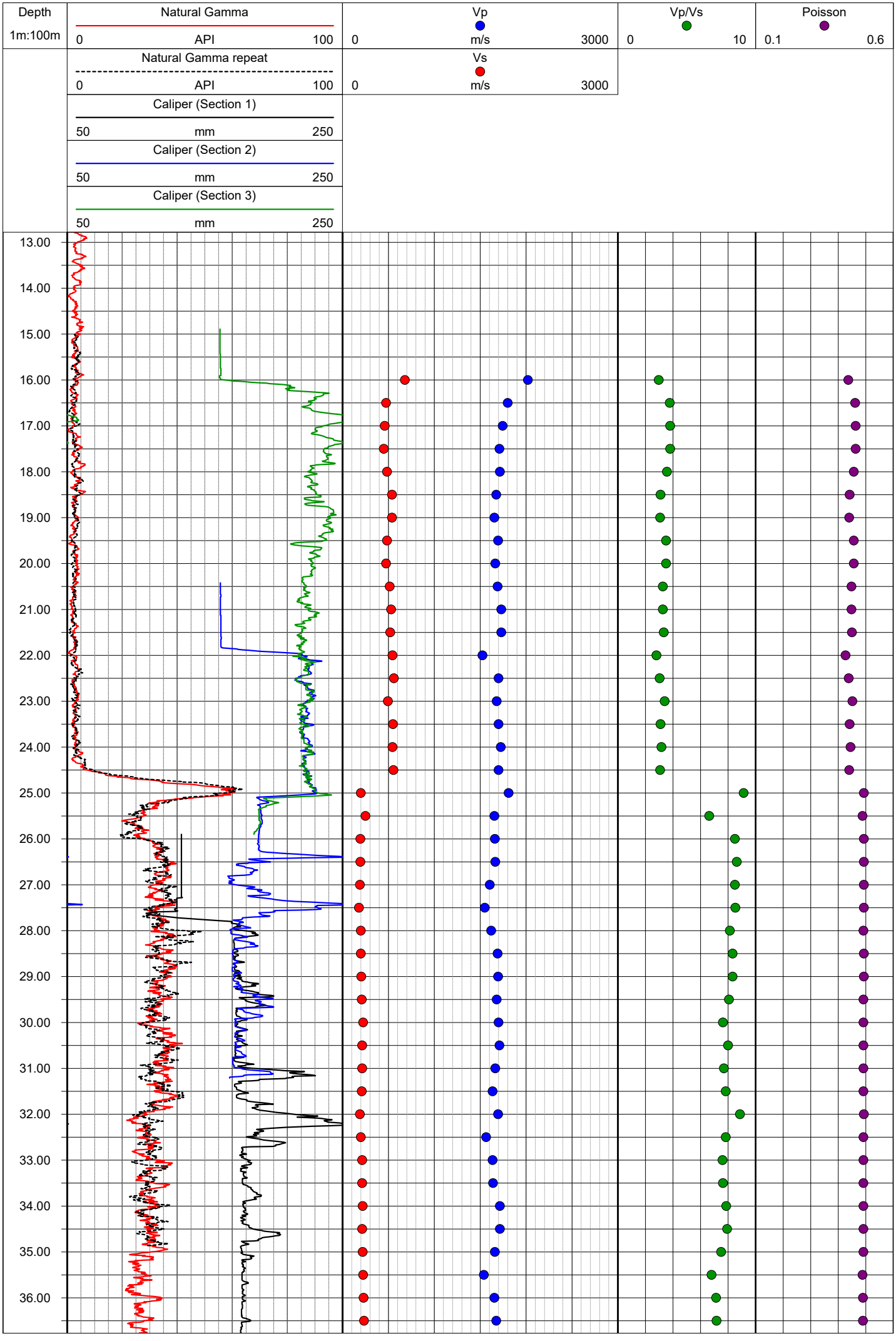
Bit Diameter:	From:	To:
146 mm	0.00 m	111.20 m

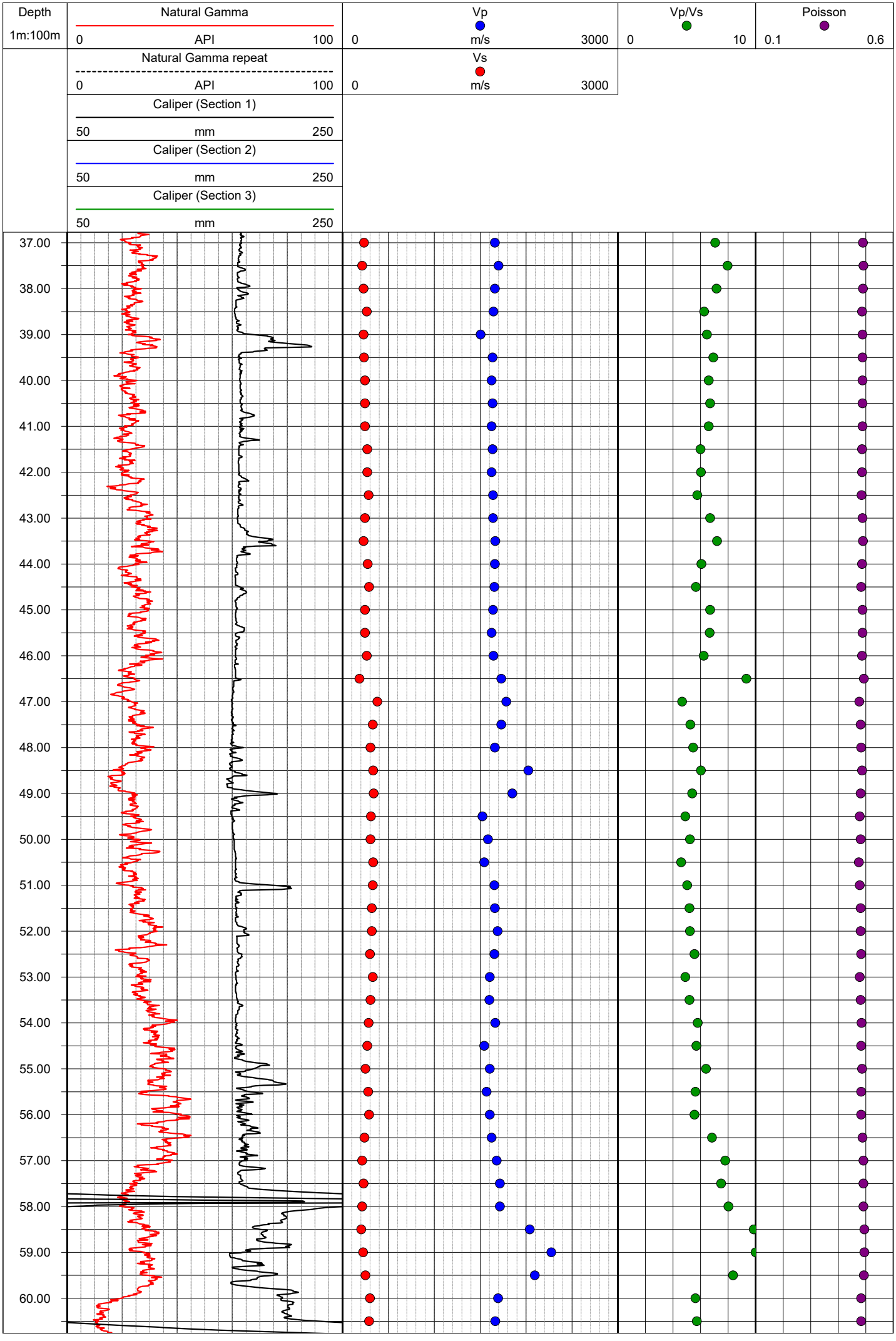
CASING RECORD (DRILLING)

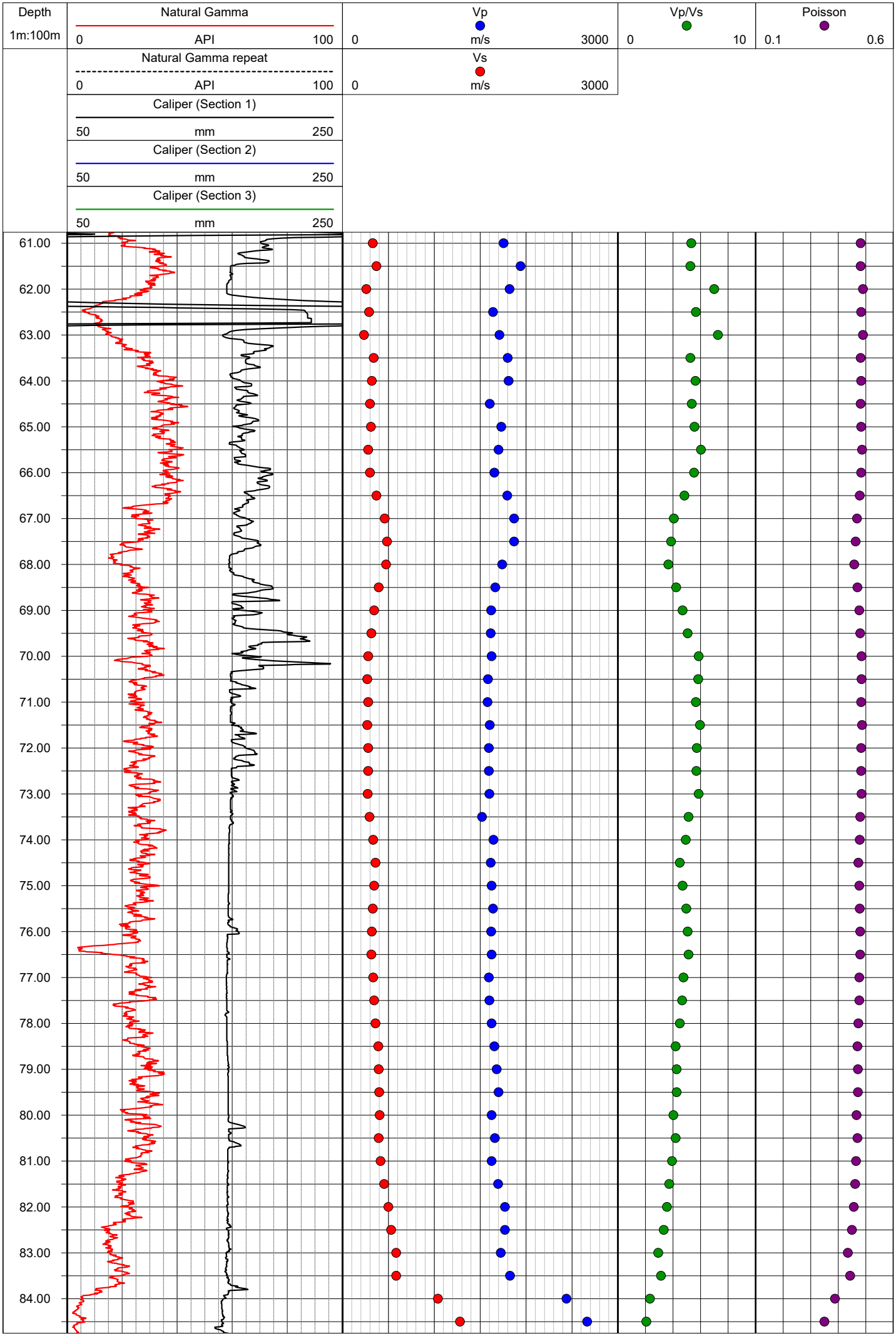
Type:	Size:	From:	To:
Steel	255 mm	-25.30 m	3.50 m
Steel	178 mm	-25.70 m	26.50 m
Steel (NG in casing)	146 mm	-26.30 m	111.20 m

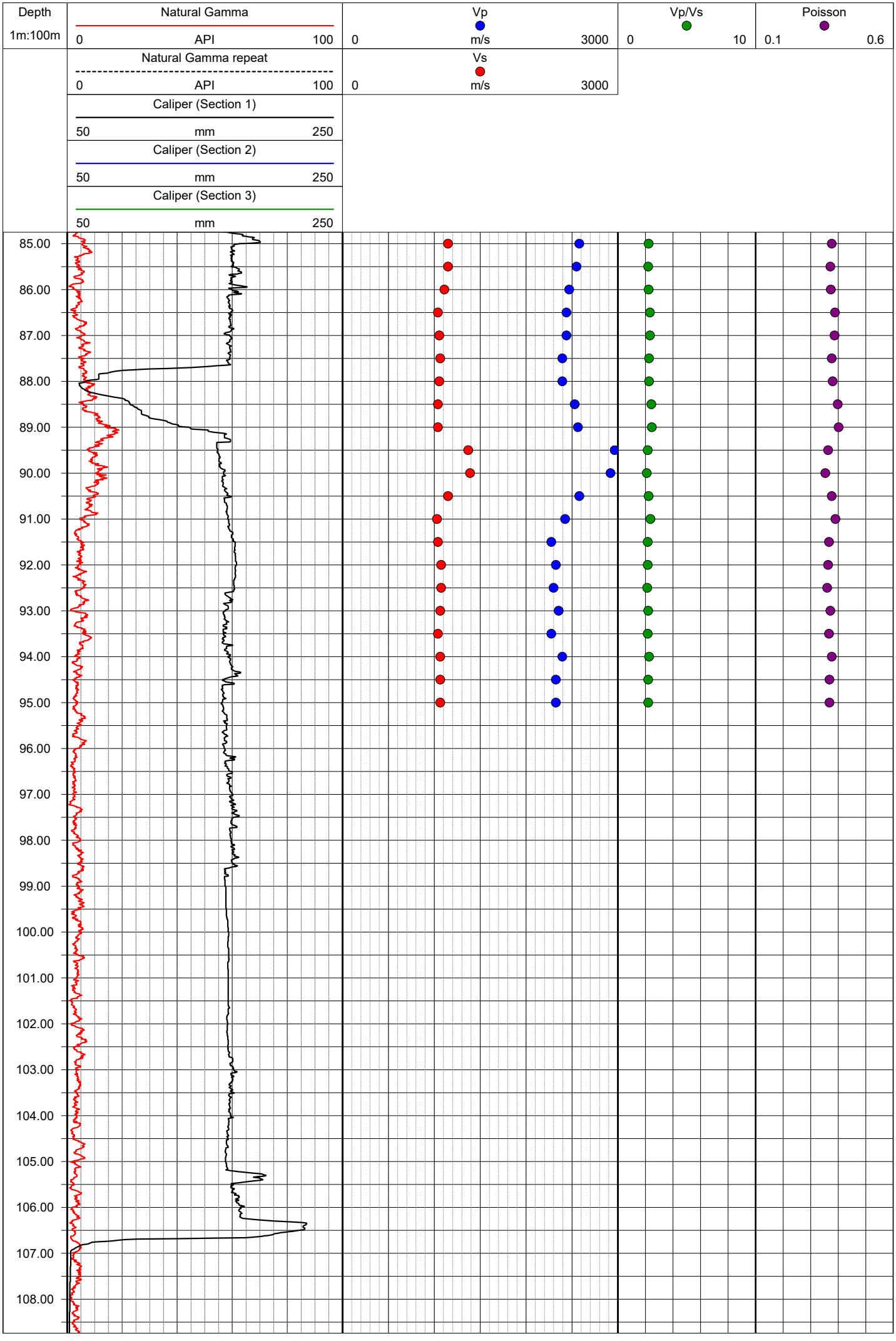
Depth 1m:100m	Natural Gamma 0 API 100	Natural Gamma repeat 0 API 100	Caliper (Section 1) 50 mm 250	Caliper (Section 2) 50 mm 250	Caliper (Section 3) 50 mm 250	Vp 0 m/s 3000	Vs 0 m/s 3000	Vp/Vs 0 10	Poisson 0.1 0.6



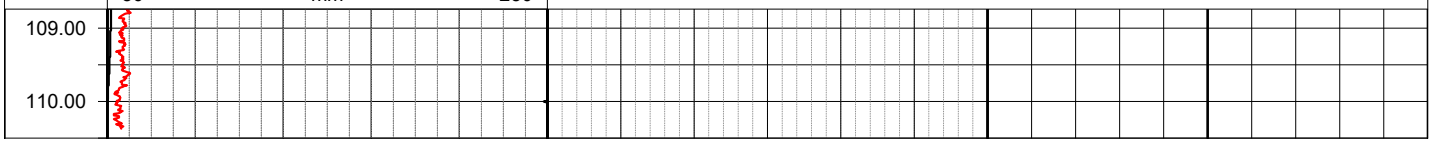

Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
25.00
26.00
27.00
28.00
29.00
30.00
31.00
32.00
33.00
34.00
35.00
36.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
37.00
38.00
39.00
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00
54.00
55.00
56.00
57.00
58.00
59.00
60.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
61.00
62.00
63.00
64.00
65.00
66.00
67.00
68.00
69.00
70.00
71.00
72.00
73.00
74.00
75.00
76.00
77.00
78.00
79.00
80.00
81.00
82.00
83.00
84.00


Depth
1m:100m
Natural Gamma
0
API
100
Natural Gamma repeat
0
API
100
Caliper (Section 1)
50
mm
250
Caliper (Section 2)
50
mm
250
Caliper (Section 3)
50
mm
250
Vp
0
m/s
3000
Vs
0
m/s
3000
Vp/Vs
0
10
Poisson
0.1
0.6
85.00
86.00
87.00
88.00
89.00
90.00
91.00
92.00
93.00
94.00
95.00
96.00
97.00
98.00
99.00
100.00
101.00
102.00
103.00
104.00
105.00
106.00
107.00
108.00

Depth	Natural Gamma	Vp	Vp/Vs	Poisson
1m:100m	0 API 100	0 m/s 3000	0 10	0.1 0.6
	Natural Gamma repeat	Vs		
	0 API 100	0 m/s 3000		
	Caliper (Section 1)			
	50 mm 250			
	Caliper (Section 2)			
	50 mm 250			
	Caliper (Section 3)			
	50 mm 250			



OT_RB_07 VELOCITY TABLE (PSL)

Plot Depth (m)	P-wave Interval Velocity (m/s)	P-wave Picking Time, Near Channel (µs)	P-wave Picking Time, Far Channel (µs)	S-wave Interval Velocity (m/s)	S-wave Picking Time, Near-Left Channel (µs)	S-wave Picking Time, Near-Right Channel (µs)	S-wave Picking Time, Far-Left Channel (µs)	S-wave Picking Time, Far-Right Channel (µs)

rr d

F.2 Check-Shot Survey

F.2.1 Datasheets and Guidance Notes

Geode Engineering Seismograph

P-Wave Sparker Seismic Source

Bolt Technology Corporation Borehole Air Source

Geotomographie Borehole Hydrophone String BHC-4

Notes on Check Shot (Methodology and Data Handling)

EQUIPMENT FLYER



FUGRO
GEODE ENGINEERING SEISMOGRAPH

The Geode is a light-weight, high resolution, extremely rugged, field deployable seismograph expandable up to 1000 channels.

The 24-bit Geode seismograph is a versatile and flexible seismic recorder.

Small, light and rugged, it can be expanded to 1000 channels, making it suitable for a wide variety of surveys from cross-hole to seismic reflection.

Controlled by a standard laptop PC, the system allows instant data review and in-field QC processing.

Features

- Multi-purpose seismic recorder: reflection, refraction, monitoring, cross-hole, parallel seismic
- Lightweight (3.6 kg) module connects directly to ethernet port
- Provides from 1 to 24 channels per unit or connect multiple units for up to 1000 channels
- Digital data transfer reducing the need for long analogue cable runs
- 24-bit dynamic range, low distortion, low noise
- 20 kHz band width allows high resolution or low frequency surveys
- Standby low power means long battery life and increased field efficiency.

APPLICATIONS

- Seismic reflection
- Seismic refraction
- Surface wave seismic
- Parallel seismic
- Vibration monitoring.



Typical lightweight seismic recording equipment spread.

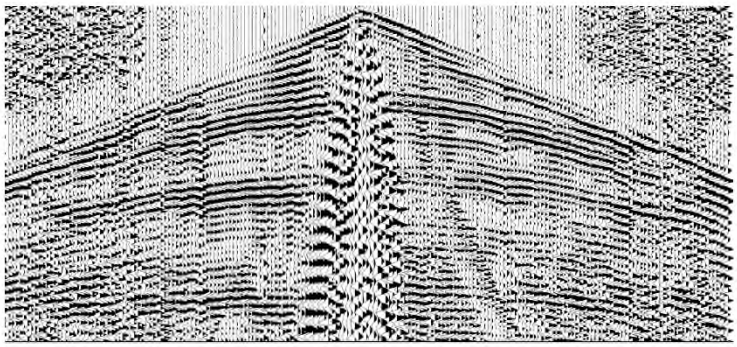
EQUIPMENT FLYER

Specification

Technical

Configurations	3,6,8,12,16 or 24 channels in weatherproof field deployable Geode module.
A/D conversion	24 bit result using Crystal Semiconductor sigma-delta converters & Geometrics over sampling
Dynamic Range	144dB (system) 110 dB (instantaneous, measured) at 2 ms, 24 dB
Distortion	0.0005% at 2 ms, 1.75 to 208 Hz
Bandwidth	1.75 Hz to 20 KHz 0.6 & DC low frequency option
Common mode rejection	>100 dB at <=100 Hz, 36 dB
Crosstalk	-125 dB at 23.5 Hz, 24 dB, 2 ms
Noise floor	0.2 uV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz
Stacking trigger accuracy	1/32 of sample interval
Maximum input signal	2.8 V PP, 0 dB
Input impedance	20 kOhm, 0.02 uf
Preamplifier gains	Standard factory configuration is 24 and 36 dB,selectable in software. Optionally, can be jumpered for software selectable 2 and 24 dB or can be jumpered in four channel blocks as a single fixed gain of 0 dB for high-voltage devices.
Anti-alias filters	-3 dB at 83% of Nyquist frequency, down to 90 dB
Acquisition and display filters	Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24or 48 dB/octave, Butterworth. Notch: 50, 60, 150, 180 Hz and OUT, with the 50 dB rejection bandwidth 2% of center frequency. High Cut: OUT, 32, 64, 125, 250, 500 or 1000 Hz, 24 or 48 dB/octave.
Sample interval	0.02,0.03125,0.0325,0.125,0.25, 0.5, 1.0, 2.0, 4.0, 8.0 or 16.0 ms
Correlation	Optional high-speed hardware correlator available in each Geode for fast cycle time with vibrators and pseudo-random (MiniSosie) sources2. Correlates 16K record, unlimited channels in under 1 sec.
Record length	16,384 samples standard, 65,536 samples optional
Pre-trigger data	Up to full record length
Delay	0 to 100 sec in steps of 1 sample interval

Data Transmission	Uses Ethernet transmission standard over CAT 5 copper or multimode fiber-optic cable. Distance between boxes: CAT 5 able up to 0.25 km; fiber-optic cable up to 1.5 km.
Intelligent self-trigger	Earthquake, blasting and vibration monitoring
Continuous recording	Available for vibration monitoring
Auxiliary channels	All Geode channels can be programmed as either AUX or DATA. Fixed data and aux channels available in StrataVisor NZ.
Roll along	Built in, no external roll box required
Line testing	Real time noise monitor displays real-time output from geophones. Optional geophone pulse test helps identify bad geophones and shorted or broken cables.
Data formats	SEG-2 standard. SEG-D and SEG-Y available
System software	Basic operating software includes full compliment of acquisition, display, plotting, filtering and storage features. Other functions available as options to control multiple Geodes, add additional preamp gains, high-speed correlation, expanded record length, tape writing, geophone pulse test, expanded test and diagnostics, roll along capability, marine surveying, sub-bottom profiling, blast and vibration monitoring, continuous recording and surveillance.
Data storage	Stores data locally in SEG2 on laptop/PC media. Drivers available for tape/disk storage in SEG2/D/Y
Triggering	Positive, negative or contact closure, software adjustable threshold. Will self-trigger on continuous data using threshold detecting STA/LTA-like algorithm.
Power	Requires 12V external battery. Uses 0.65 W/ channel during acquisition, sleep mode reduces power consumption by 70% while in standby.
Environmental	-30 to 70 degrees C. Waterproof and submersible. Withstands a 1 m drop onto concrete on 6 sides and 8 corners. Passes MIL810E/F vibration.
Dimensions	305 x 254 x 177 mm L x W x H
Weight	3.6 kg



Example shot record from a seismic line formed of 8 geodes linked together giving a total of 192 channels.



Seismographs can be readily linked together to increase the survey line length.

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EQUIPMENT FLYER



FUGRO

P-WAVE SPARKER SEISMIC SOURCE

The P-wave Sparker seismic source is a portable system for generation of high frequency, repeatable seismic energy.

The sparker seismic source system consists of a high-voltage generator, a remote control unit (RCU), and a down-hole tool.

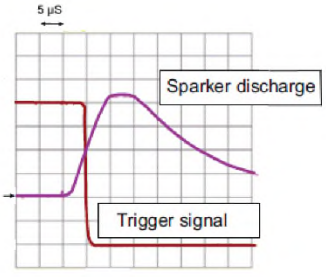
- Safe operation
- Powerful (1000 J)
- High frequency (>2 kHz)
- Repeatable and consistent source energy output
- Reliable and accurate trigger (time-zero) output
- Fast recharge time allowing high productivity.

The down-hole P-wave sparker SBS-42 consists of a probe tube and a rubber tube system. At the probe tube a plastic protection housing is attached. Inside the housing a rubber chamber filled with water surrounds the sparker electrodes. The electrical discharge occurs within the chamber. Sparker pulses are released through manual or automatic triggering of the surge generator by the RCU. The RCU also converts the reference signal of the surge generator into a trigger signal. The background noise can be recorded automatically and used to interrupt data acquisition if the noise level is too high. Trigger accuracy is better than 10µs.

The sparker generates high frequency (up to 2 kHz) P wave energy with sufficient energy to propagate distances up to 100 m. The P wave sparker unit is commonly used in conjunction with borehole receivers (hydrophones and geophones) for cross-hole seismic measurements.

APPLICATIONS

- Cross-hole seismic (standard & tomography)
- VSP logging
- Checkshot logging
- High resolution shallow seismic reflection.



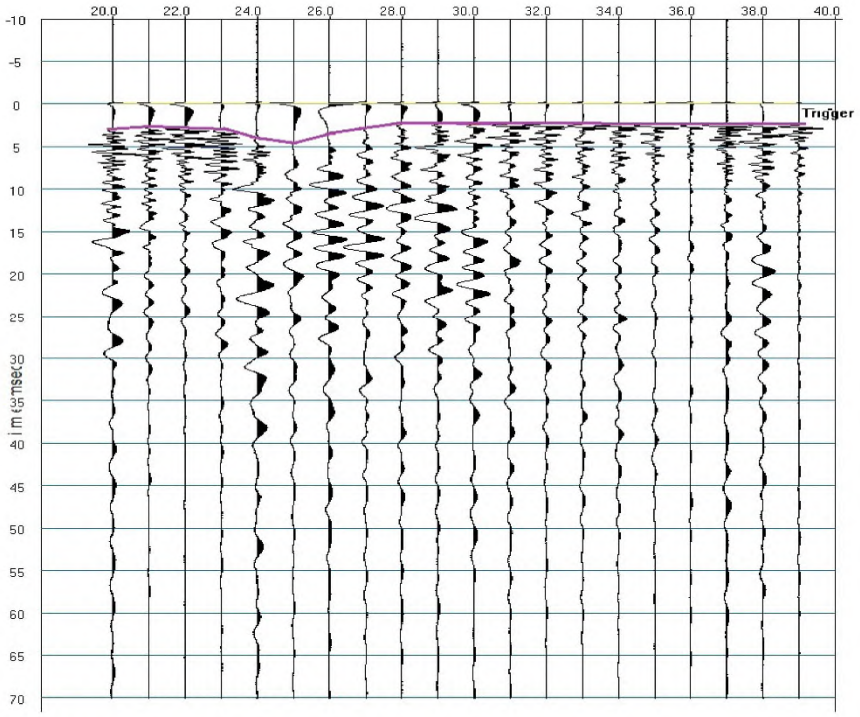
The remote control unit emits a reference signal that simultaneously initiates the sparker discharge and the recording system (accuracy +/- 5 microsecs).

EQUIPMENT FLYER

SPECIFICATIONS

Technical Data Electrical Surge Generator IPG	
Impulse voltage:	5 KV
Impulse energy	1000 J
Repetition rate	4 to 7 s
Power supply	230 V, 50 Hz, 2.5 A
Dimensions	520 x 250 x 500 mm
Weight	52 kg
Working mode	manual/ continuous
Emergency OFF button	
Safety key switch	
Downhole probe	Outer diameter 42mm
Operational depth	160 m
Exchangeable sparker electrode	
P-wave sparker chamber	SBS42

Technical Data RCU
TTL Low /High trigger output
Trigger test option
Trigger level adjustment
Impulse counting
Single shot release
Continuous shot release with variable repetition rate from 4 - 7 seconds
Emergency OFF button
Safety key switch



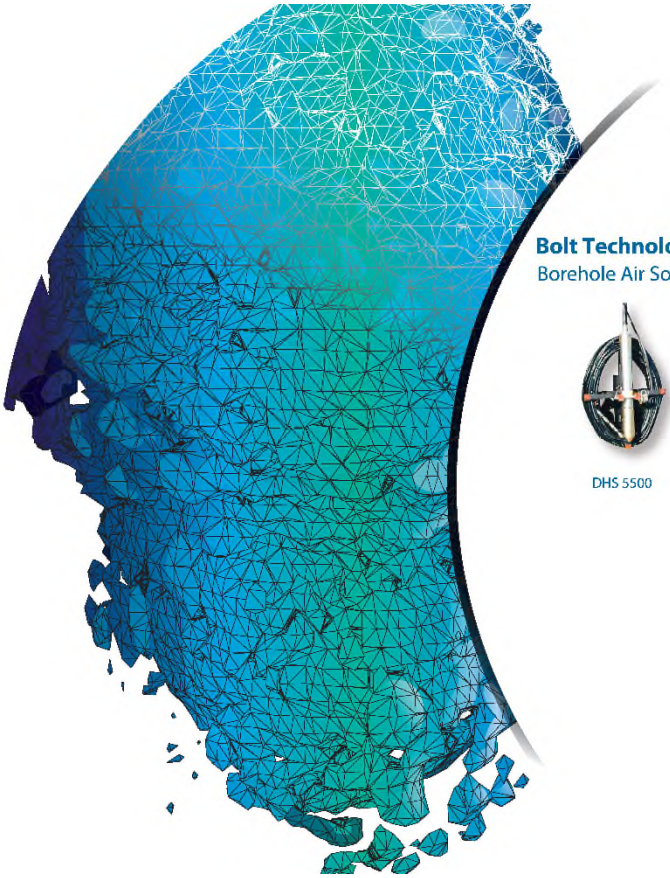
Direct cross-hole data example from P-wave sparker source.

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Bolt Technology Corporation®
Borehole Air Source

DHS 5500



2200LL-BHS

Bolt Technology Corporation®

Practical Borehole Sources

The need for a practical borehole source as an alternative to dynamite and surface sources has long been understood. The depths at which a down-hole source must operate range from a few metres to several thousand metres, consequently Bolt Technology Corporation has developed several down-hole Air Sources to meet these varied requirements.

DHS-5500

The DHS-5500 is a small, light-weight Air source suitable for operation at depths to 100 metres. The DHS-5500 is designed for chamber volumes ranging from 1 in^3 to 20 in^3, and operates at a pressure of 2,000 psi.



DHS-5500 Downhole Source

The DHS-5500 can be deployed in a shallow borehole, and at 16 lbs. is light enough to be easily managed by hand, without resorting to expensive mechanical winches. The DHS-5500 is also configured with composite air tanks as a portable air gun for remote operations.

2200LL-BHS

The 2200LL-BHS incorporates Bolt's patented Long Life™ technology to produce a high energy source suitable for deployment in well bores as deep as 1000 metres. The 2200LL-BHS can be equipped with chamber volumes ranging from 10 in^3 to 250 in^3.



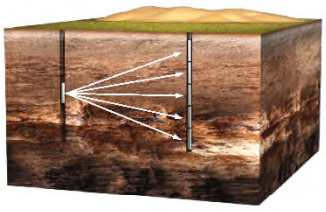
2200LL-BHS

The 2200LL-BHS weighs 129 lbs, and is 5 inches in diameter and 34 ½ inches in length with a 200 in^3 chamber.

Versatile Borehole Air Sources

The WELLSEIS™ borehole air source tool can be configured as a point source with either one, two or three air guns. The Long Life™ Air Source Model 22500 accepts chamber sizes from 10 in^3 to 120 in^3, with a maximum differential pressure of 3000 psi relative to the borehole pressure.

Crosswell Tomographic Survey



WELLSEIS™ Air Source Tool



Bolt Technology Corporation® offers a range of solutions to the problem of deploying an efficient borehole energy source. From the light-weight DHS 5500 to the High Energy 2200LL BHS or the WELLSEIS™ multi-element Air Source Tool, Bolt can deliver a borehole source in shallow mud pits or deep cased boreholes. These borehole air sources generate highly repeatable source signatures suitable for VSP surveys, reverse VSP surveys, crosswell tomographic surveys and checkshot surveys. Each borehole air source is designed to be deployed in a standard 5 ½ in. cased wellbore.

WELLSEIS™

In order to provide an energy source for borehole depths in excess of 1000 metres, Bolt Technology Corporation® developed the WELLSEIS™ borehole air source tool.




GEOTOMOGRAPHIE



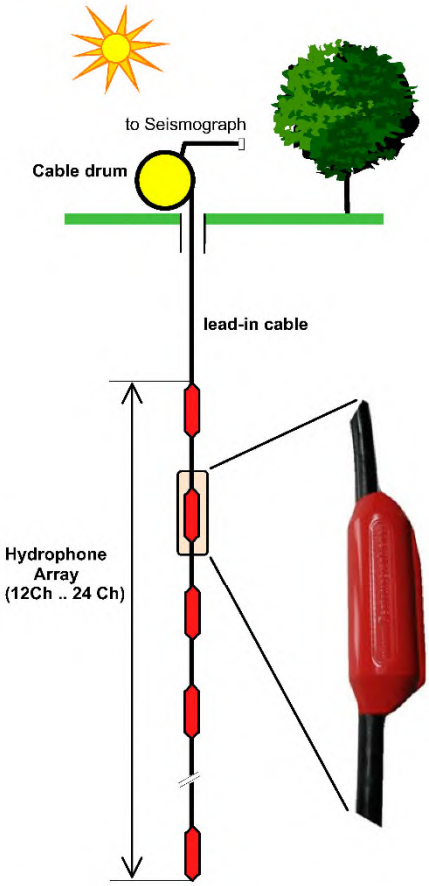

Borehole Hydrophone String BHC-4

The hydrophone system Type 4 consists of one cables and 24 active hydrophones moulded on cable. A small 6V (4 x 1,5V cells) power box supplies sufficient power for more than 10 hours continuous working. Signals are pre-amplified by factor 8.

Standard cable length is 100 m with a hydrophone spacing of 1m (other on request). Any number of hydrophones (up to 48) can be chosen.



BHC-4 on drum and with spooler device

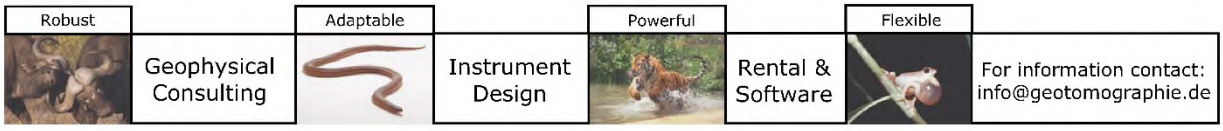


Technical data:

- Benthos AQ-2000 elements
- 1m spacing, 100 m lead-in
- Total length 123 m (24 elements)
- Outer diameter ~1,5 inch
- Power supply box 6V (active hydrophone mode)
- 55pin female connector (other on request)
- Hydrophones are moulded on the the cables
- Pre-amplification (4x)
- Moulded dead-end hook
- Cable Marker every 2 m



Light weight power supply



F.2.1 Notes on Check Shot (Methodology and Data Handling)

F.2.1.1 Methodology

Upon completion of each borehole to be logged and removal of the drill string to a depth considered optimal for borehole support, the check-shot survey was commenced.

The hydrophone string was lowered through the drill string so that the upper hydrophone was level with the mud line. The measurement used for this procedure was the measurement from the drill rig clamps to mud line as provided by the drill crew. The hydrophone string was secured in place and was connected to the Geometrics Geode recording system.

The seismic source was assembled and was deployed through a length of casing that was suspended from the second moonpool onboard Excalibur. Figure F.1 shows an excerpt from the deck plan showing the location of the moonpools and the separation between them.

The casing was held in both top and bottom clamps of the second drill rig in order to keep it vertical. Casing was lowered so that its toe was at least 3 m below the surface of the water and the source lowered o that the sparker head was outside the casing whilst the sparker body was still within the casing allowing development of the signal without risking significant movement of the source from the casing's location.

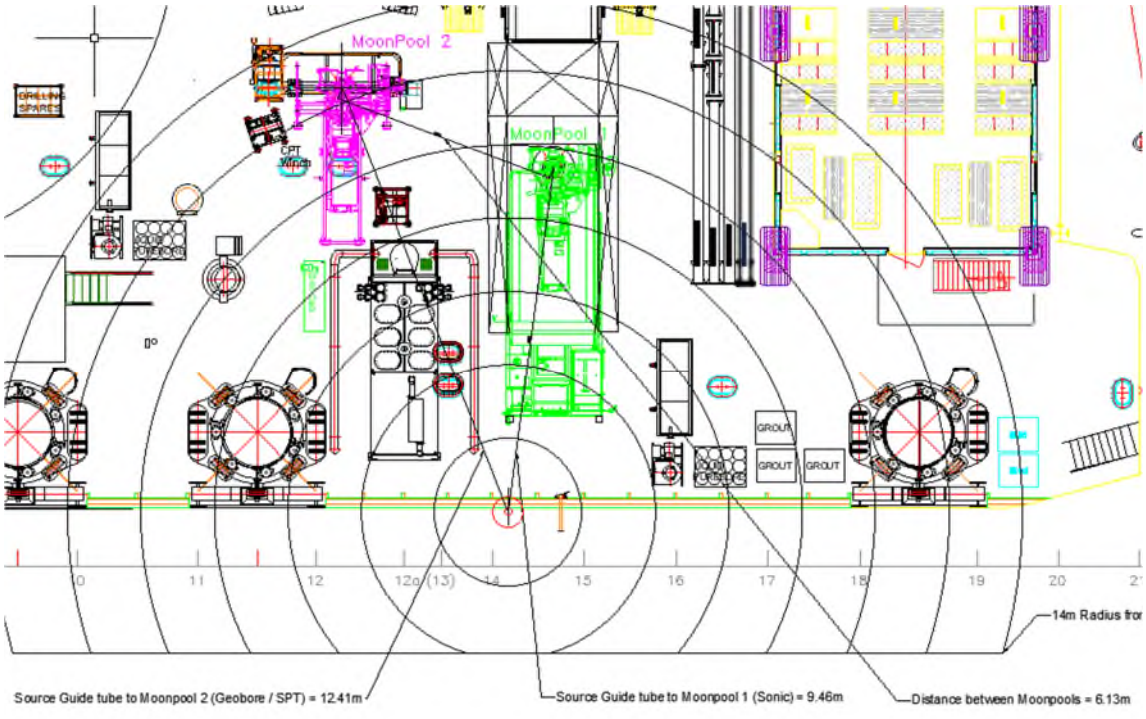


Figure F.1: Excerpt from Deck Plan Showing Moonpool Locations and Source Conductor Location

With the source in position, the system was tested to ensure that the source and receivers were working correctly. The test signals were assessed for signal to noise ratio, clarity of first breaks, depth penetration and trigger timing issues. If all of the above were acceptable then the test was commenced.

Table F.6: Summary of Recording System Parameters

Recording System Parameter	Value
Sample interval [µs]	0.02083
Record length [ms]	100
Acquisition filters	Out
Stack polarity	Positive
Data file format	SEG2

Only single stack shot records were recorded to allow calibration of time zero prior to stacking. The geophysicist recorded sufficient stacks to ensure data quality throughout the borehole.

Once the set of shot recorded noted above was recorded, the hydrophone string was lowered by 0.5 m and the same process was repeated. The source location remained the same throughout each test. Upon completion of the second set of measurements, a third set was completed with the hydrophone string was lowered such that the lowest hydrophone was at the nearest multiple of 0.5 m to the base of the available hole and a final set with the hydrophones raised by 0.5 m. This ensured coverage from mud line to the deepest possible depth at 0.5 m centres.

Upon completion of data acquisition, the geophysicist made a check of the files recorded, ensured that the field record listed the file names and hydrophone depths and collated the following information for the records:

- Date
- Borehole name
- Water depth
- Deck to mud measurement
- Casing depth

F.2.1.2 Data Handling

Raw data were examined using the Pickwin module of OYO Corporation's Seisimager suite. Band-pass filtering was designed where required to allow accurate picking of first arrivals. First arrivals were recorded into text file that was used as input into a custom downhole seismic inversion programme.

DownHole_Inv is an inversion routine that was developed by Fugro Geoconsulting France and was written in a MATLAB run time environment.

Picked first breaks are inverted using a genetic algorithm, which is an iterative stochastic algorithm. The forward problem is solved using different ray shots in different directions and finding the right shot direction with a dichotomy. Ray's refractions and reflections are considered.

Inversion is typically done using a 200-model population, and making it evolve along 100 generations. That means that 20000 models are tested for.

A priori information is included into the model in the form of borehole data and the software can be adjusted to allow a certain amount of variation around the geological boundaries.

Data produced includes an inverted best fit velocity model and a relative vertical two-way travel time to allow correlation with migrated seismic data.

F.2.2 Checkshot Records

Borehole Gathers, Depth versus TWT Plots,
Inversion Parameter Plots (raypath models, velocity models and dromochronics)

IT1_SPT_02

IT1_SPT_04

IT1_SPT_05

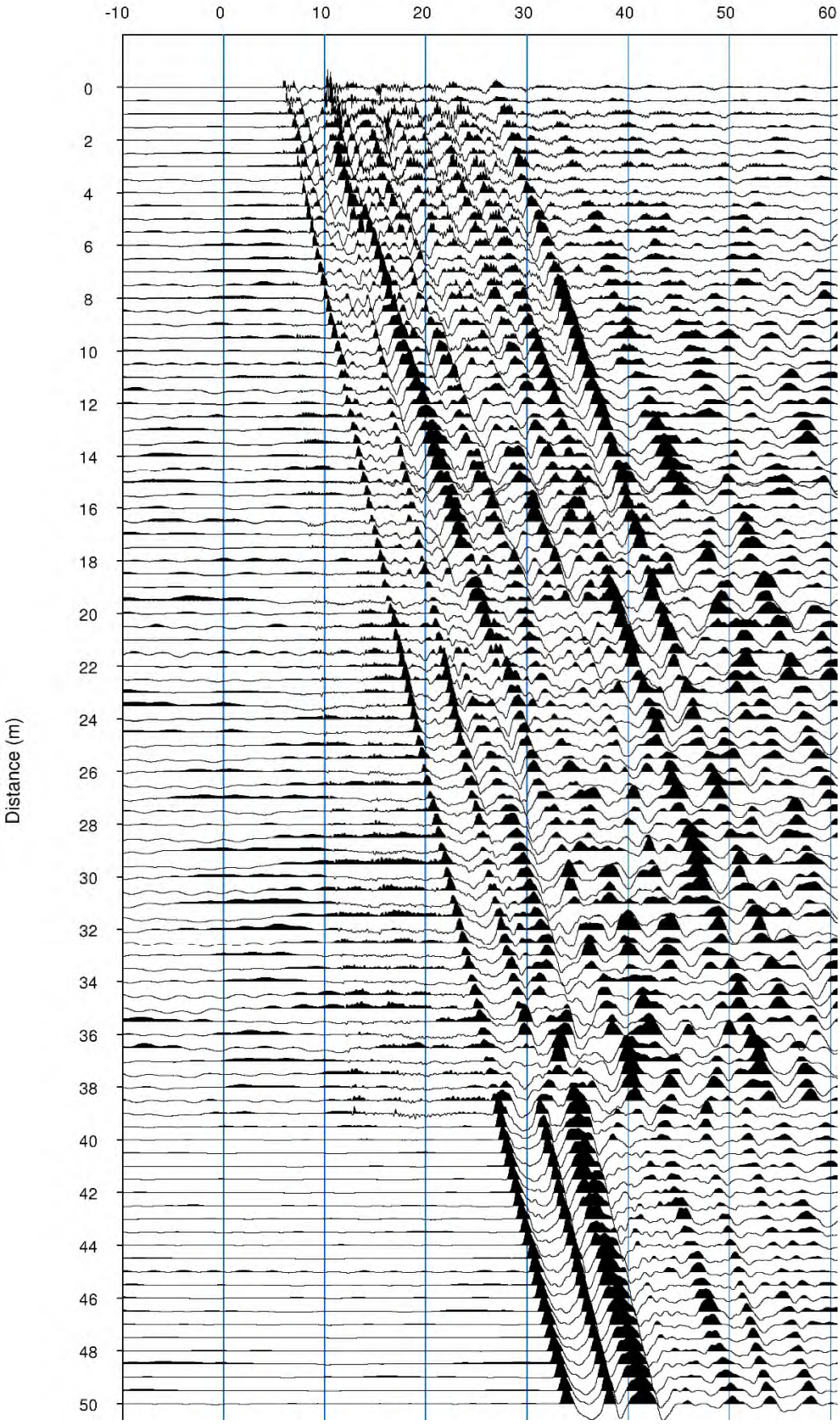
IT2_SPT_02

IT2_SPT_03

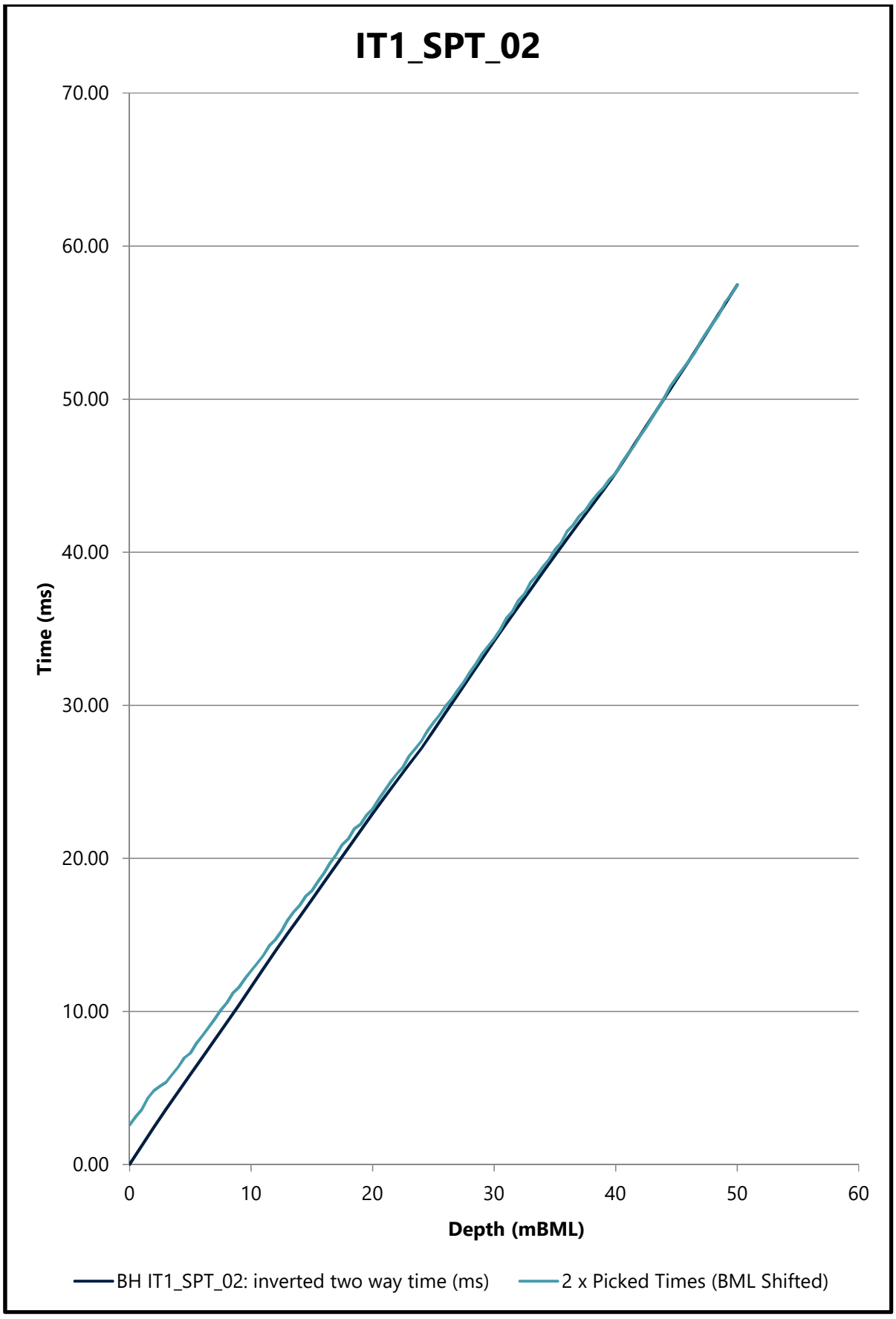
OT_SPT_03

OT_SPT_04

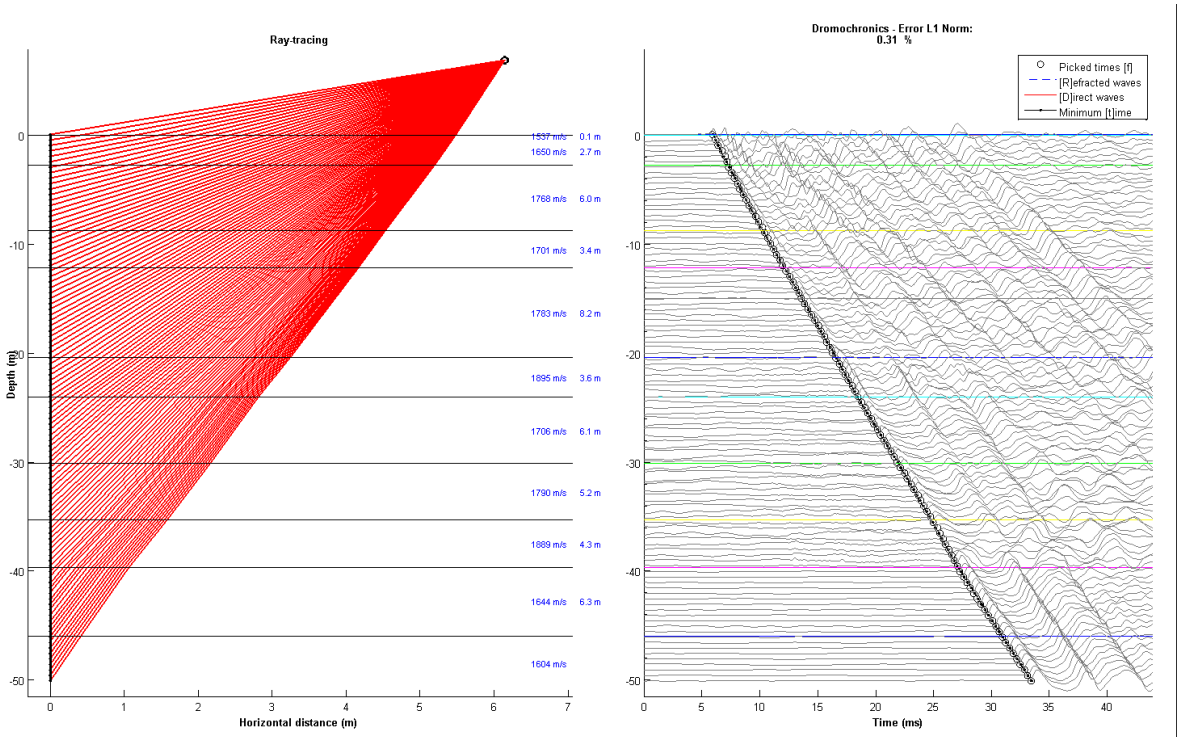
IT1_SPT_02 – Borehole Gather

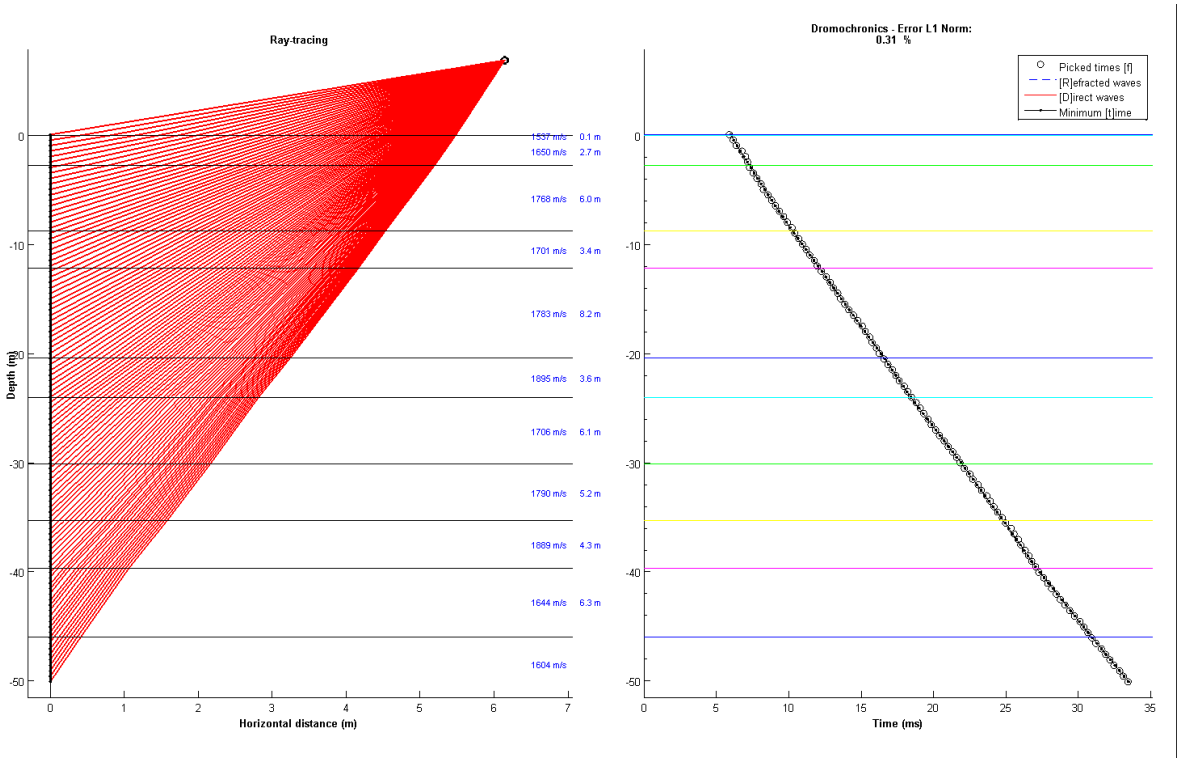


IT1_SPT_02 – Depth versus TWT Plot

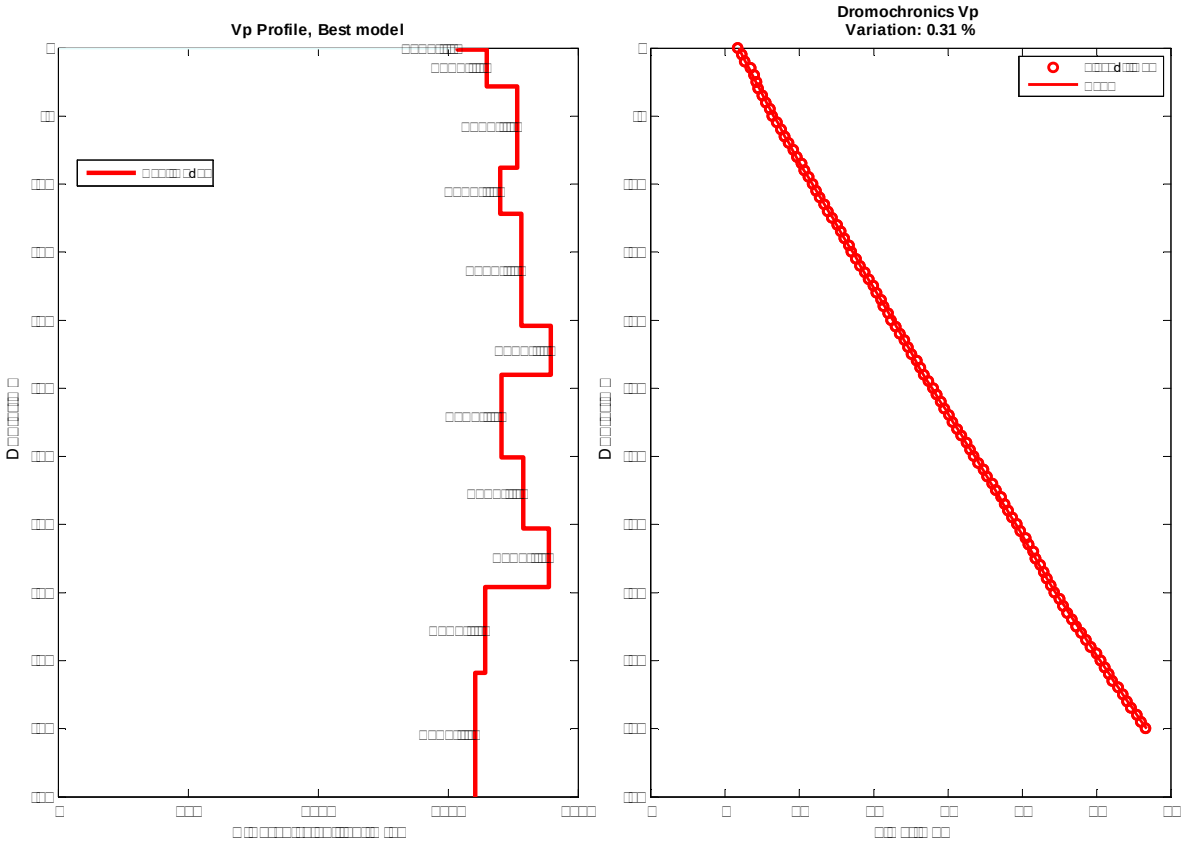


IT1_SPT_02 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

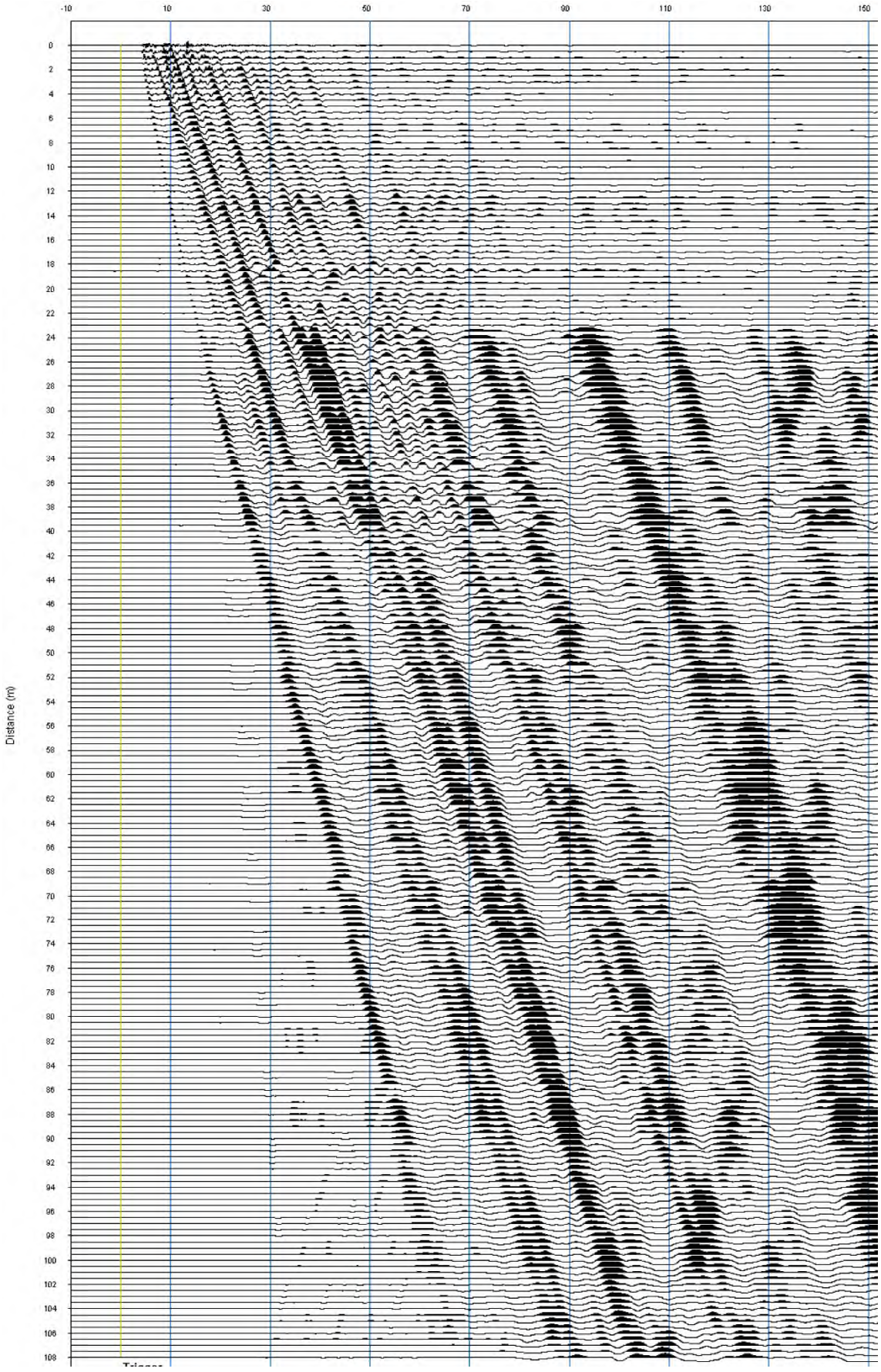




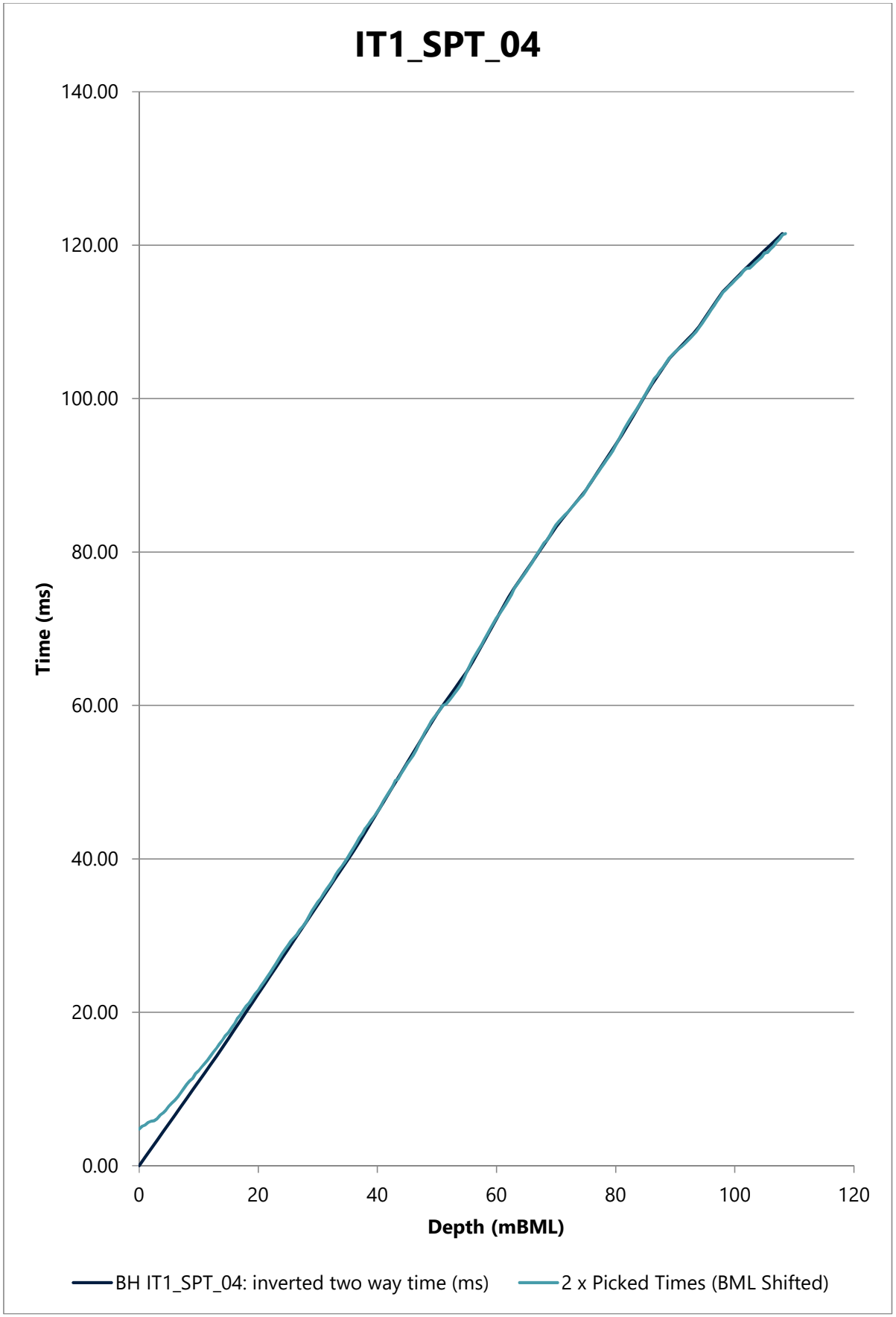
IT1_SPT_02 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



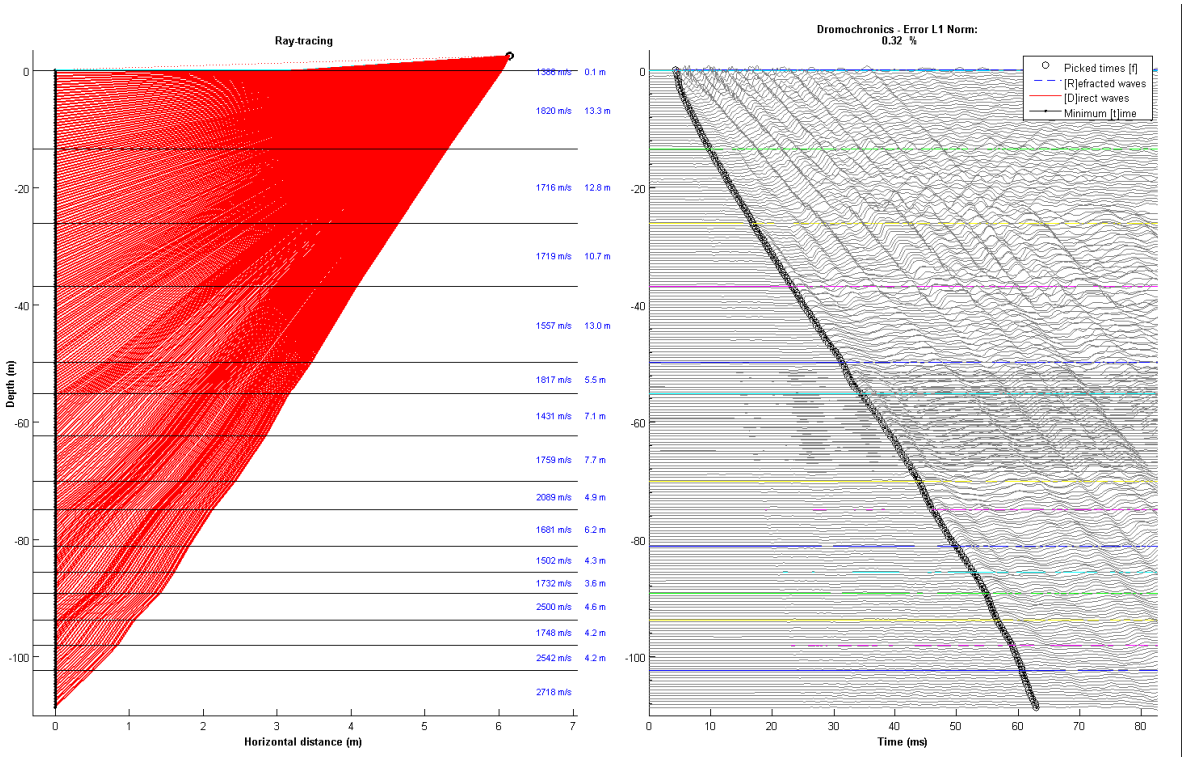
IT1_SPT_04 – Borehole Gather

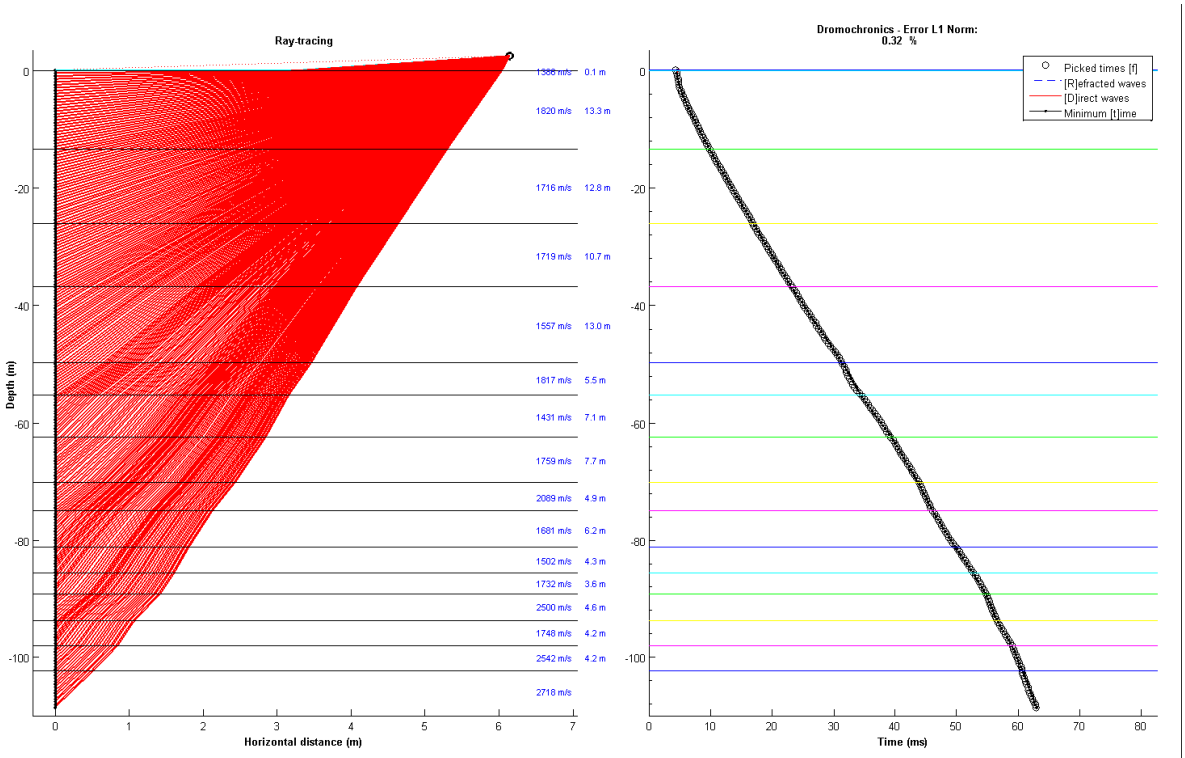


IT1_SPT_04 – Depth versus TWT Plot

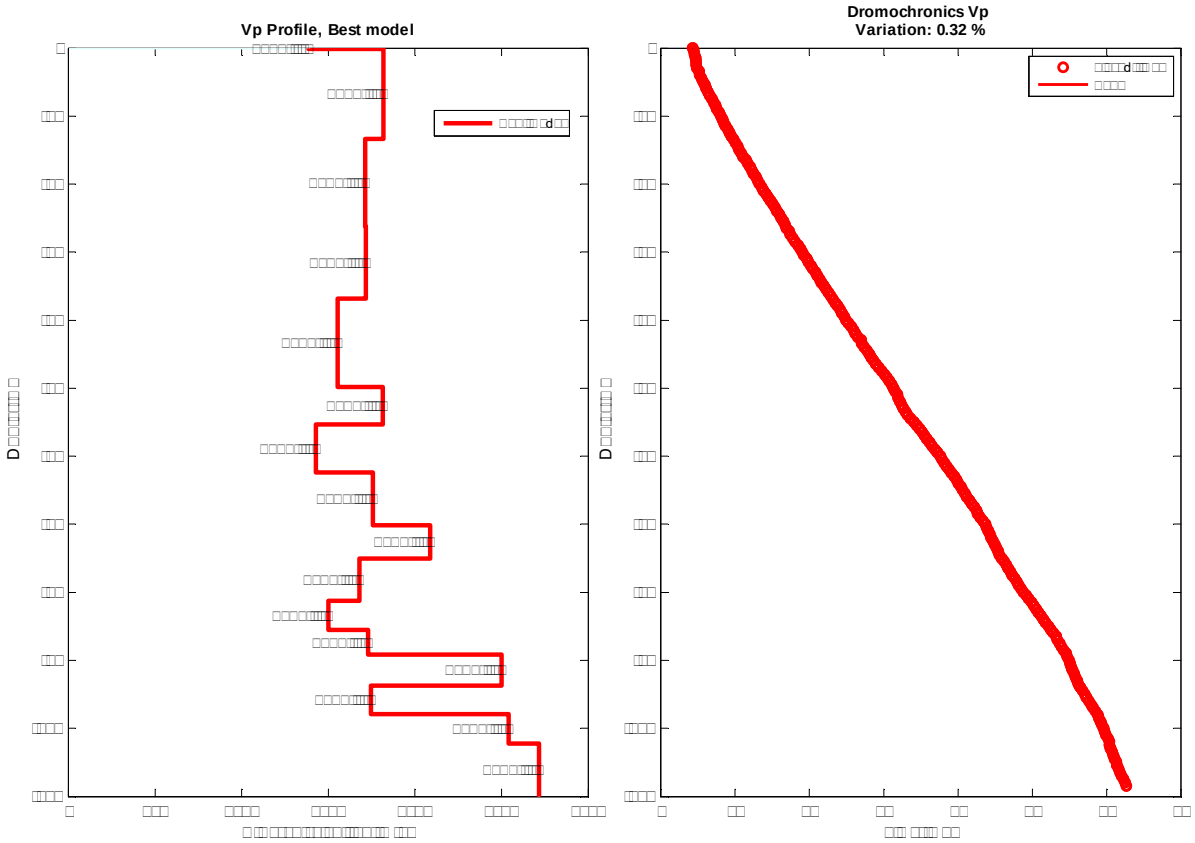


IT1_SPT_04 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

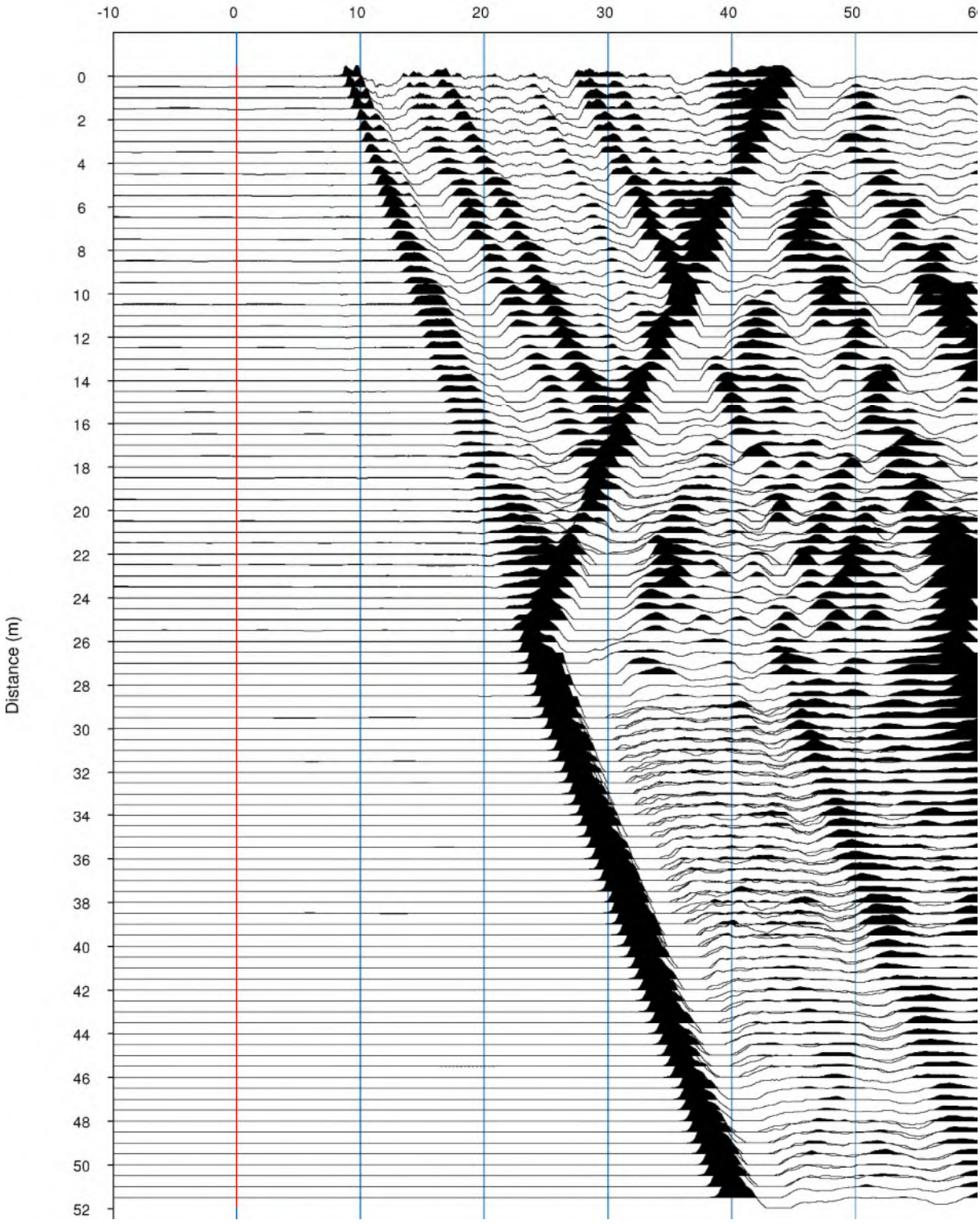




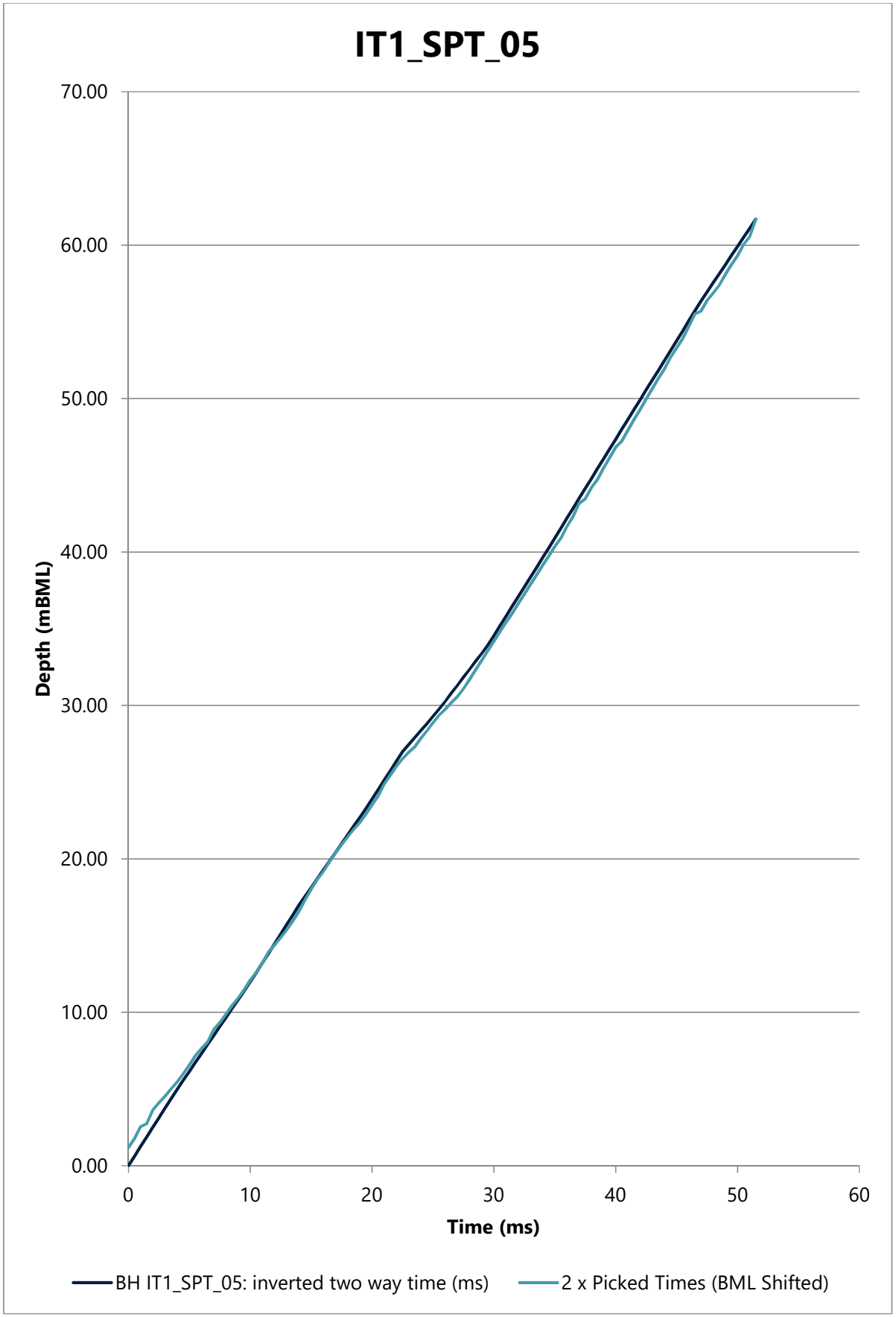
IT1_SPT_04 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



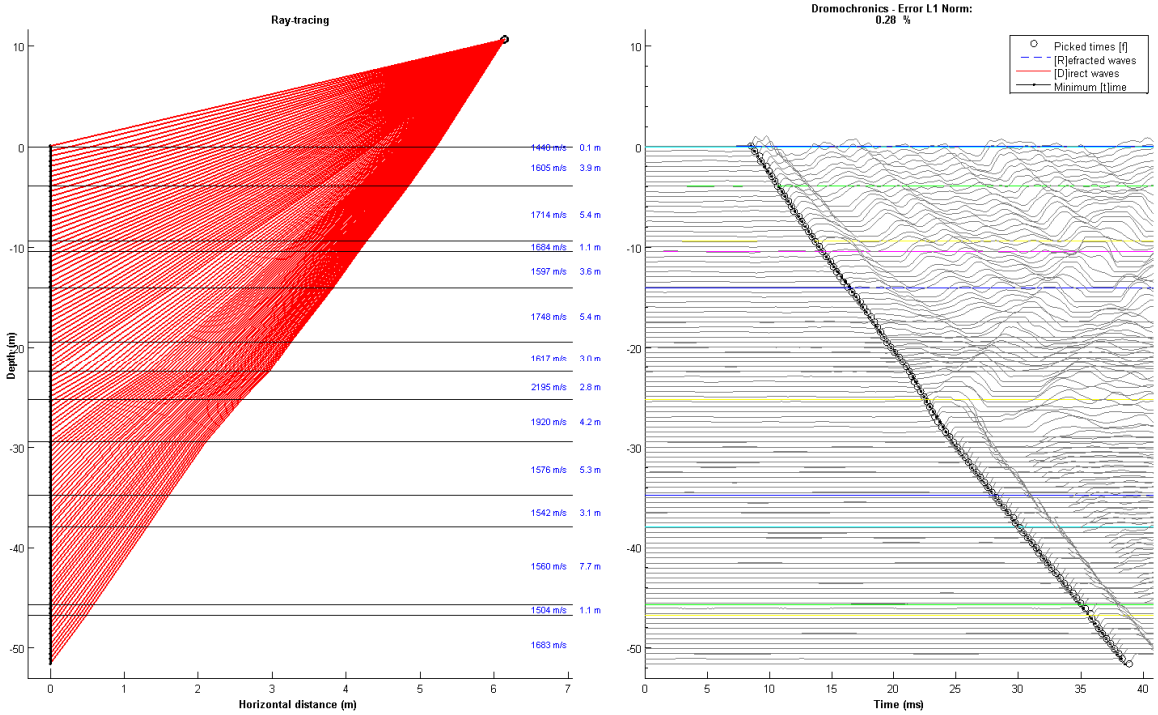
IT1_SPT_05 – Borehole Gather

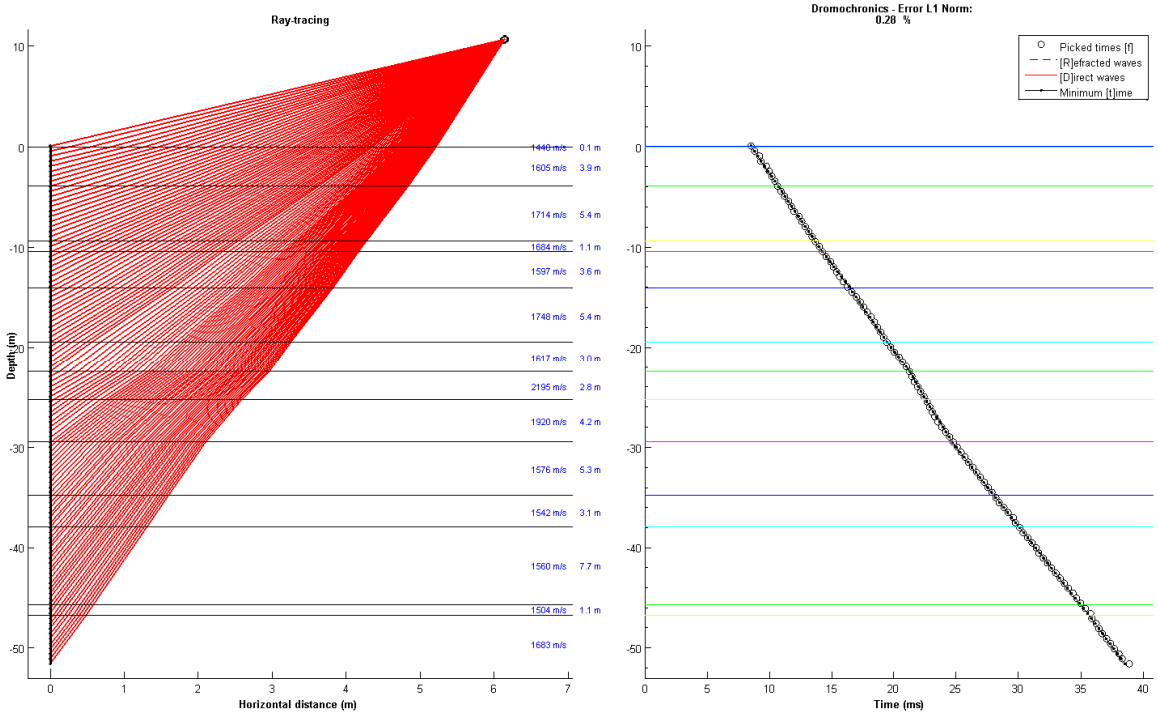


IT1_SPT_05 – Depth versus TWT Plot

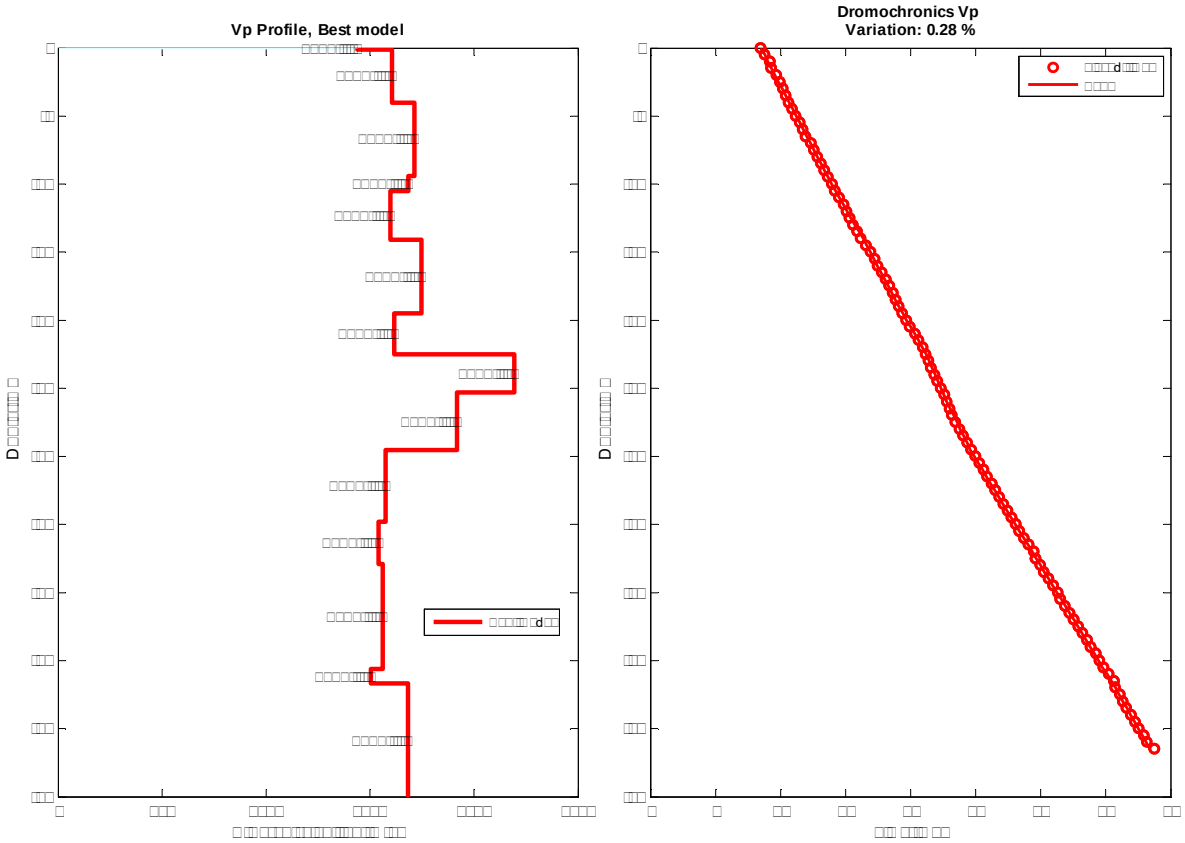


IT1_SPT_05 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

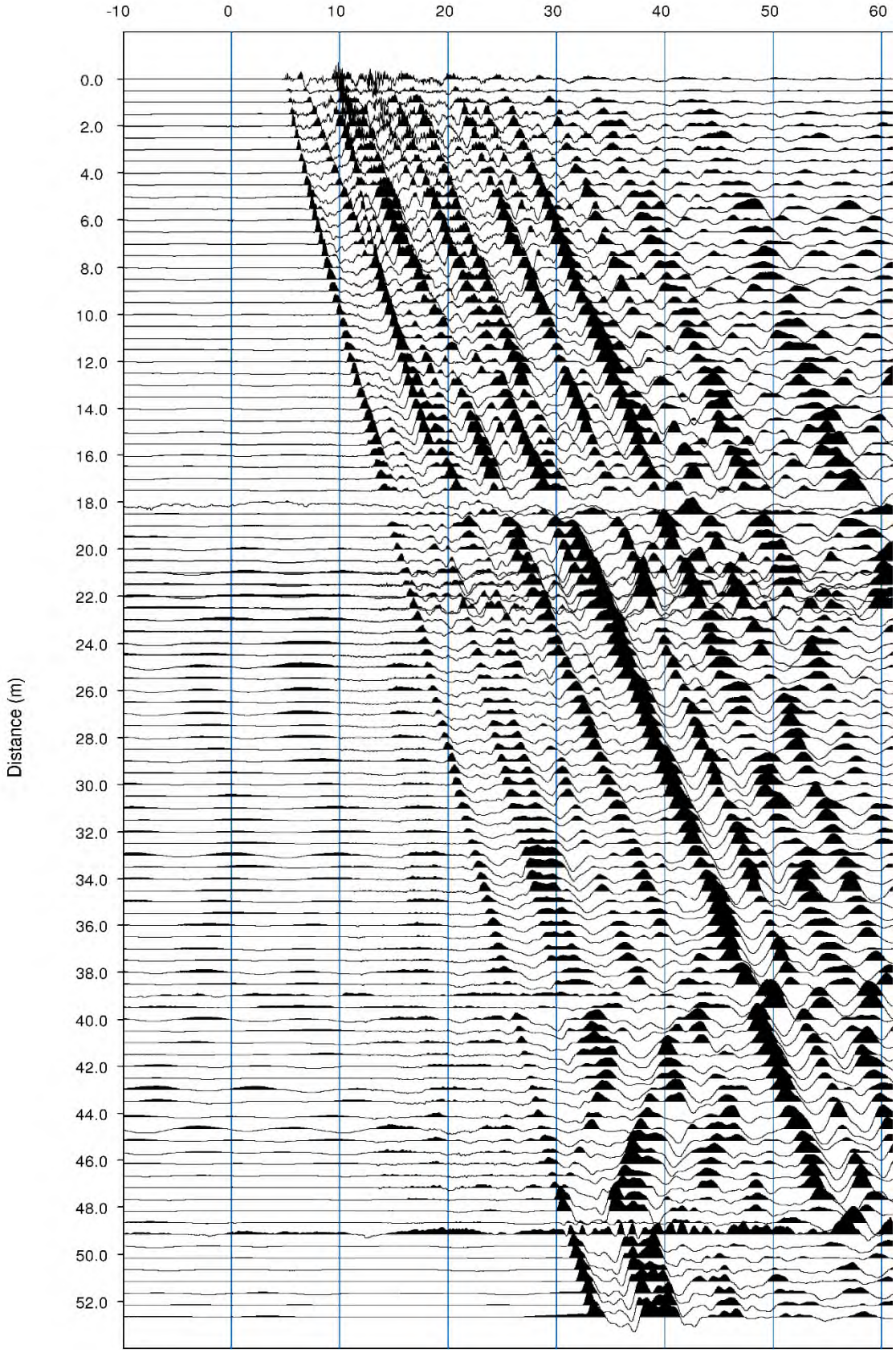




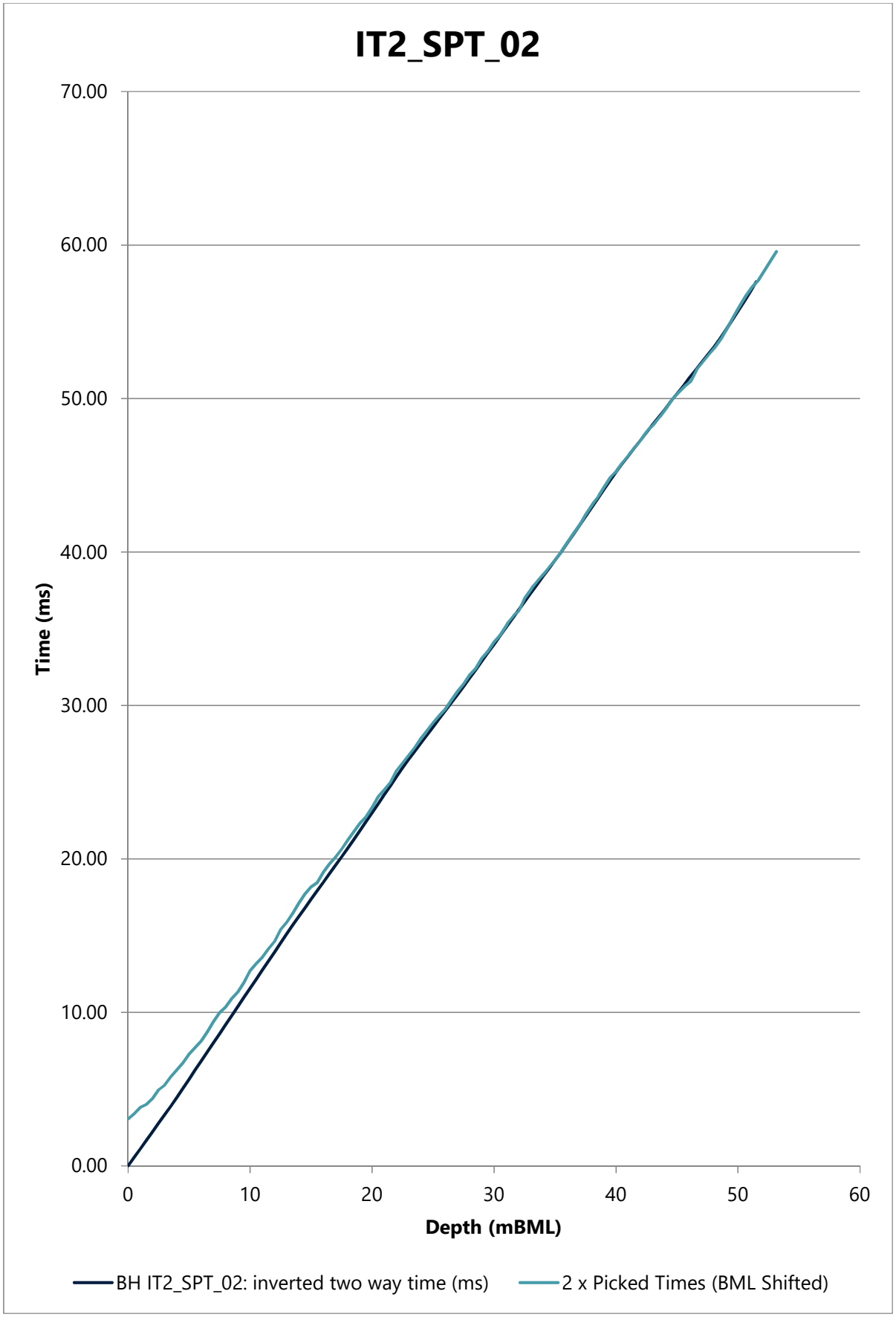
IT1_SPT_05 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



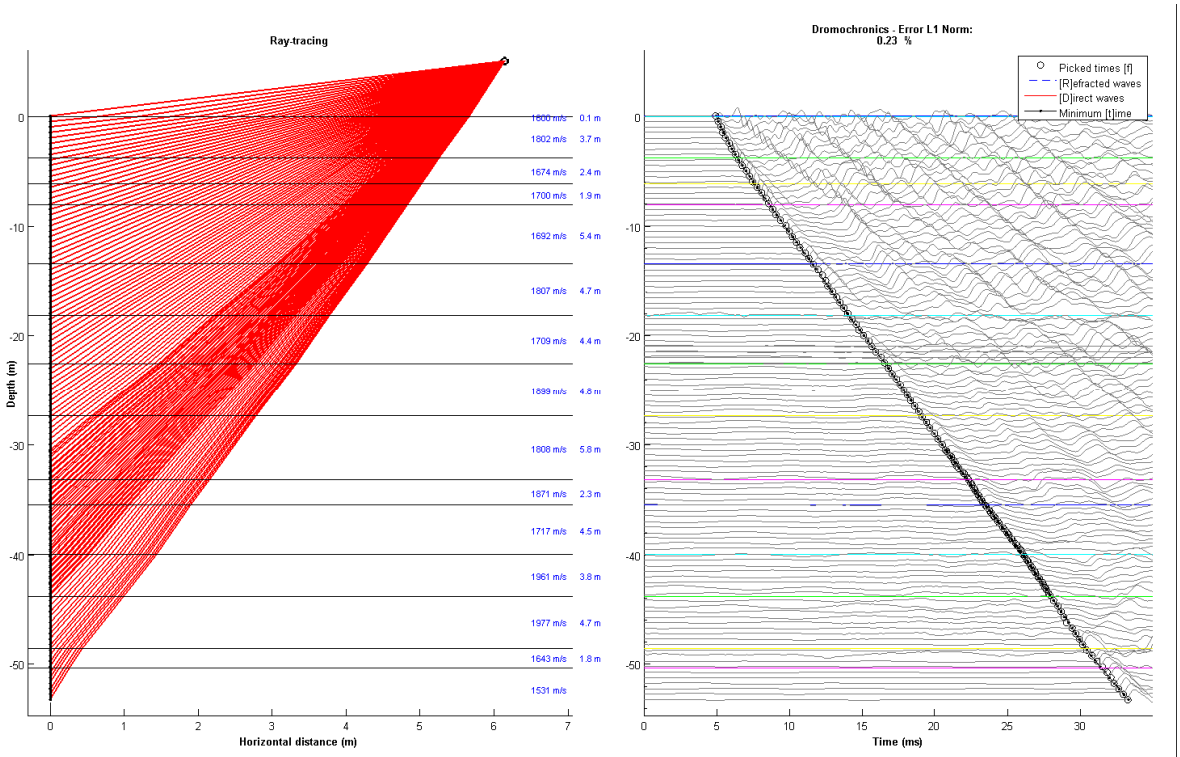
IT2_SPT_02 – Borehole Gather

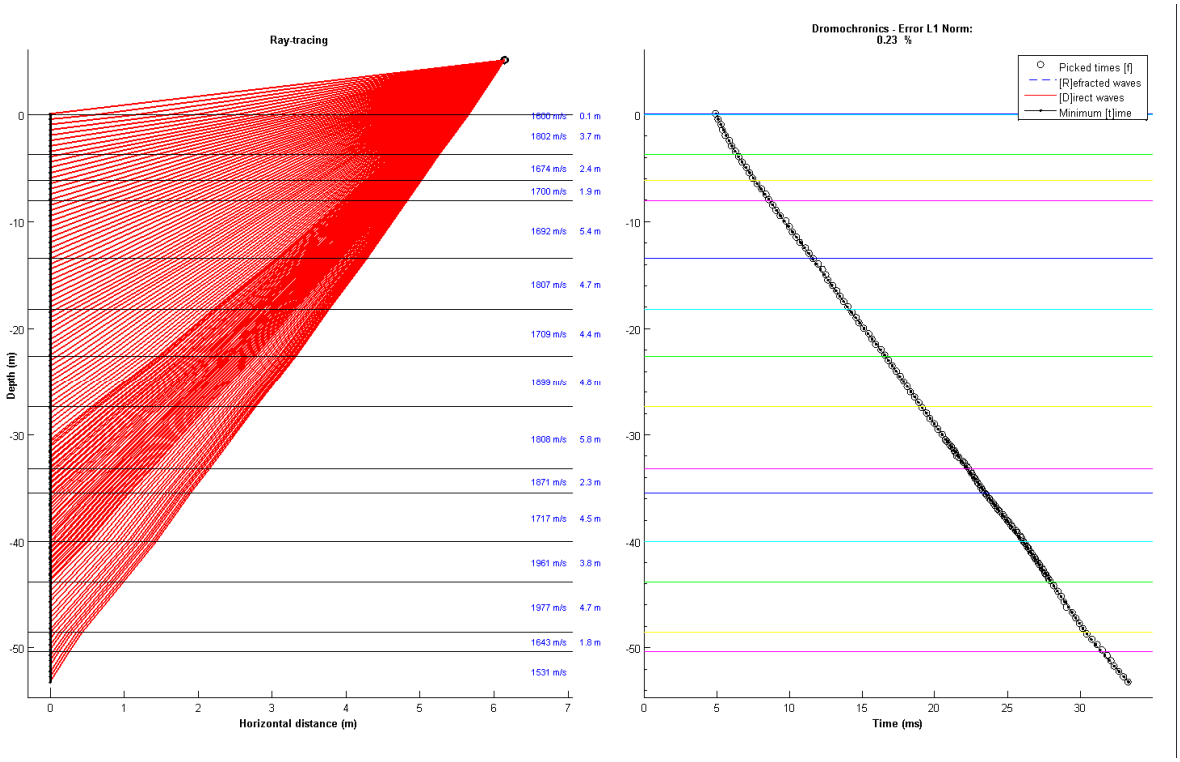


IT2_SPT_02 – Depth versus TWT Plot

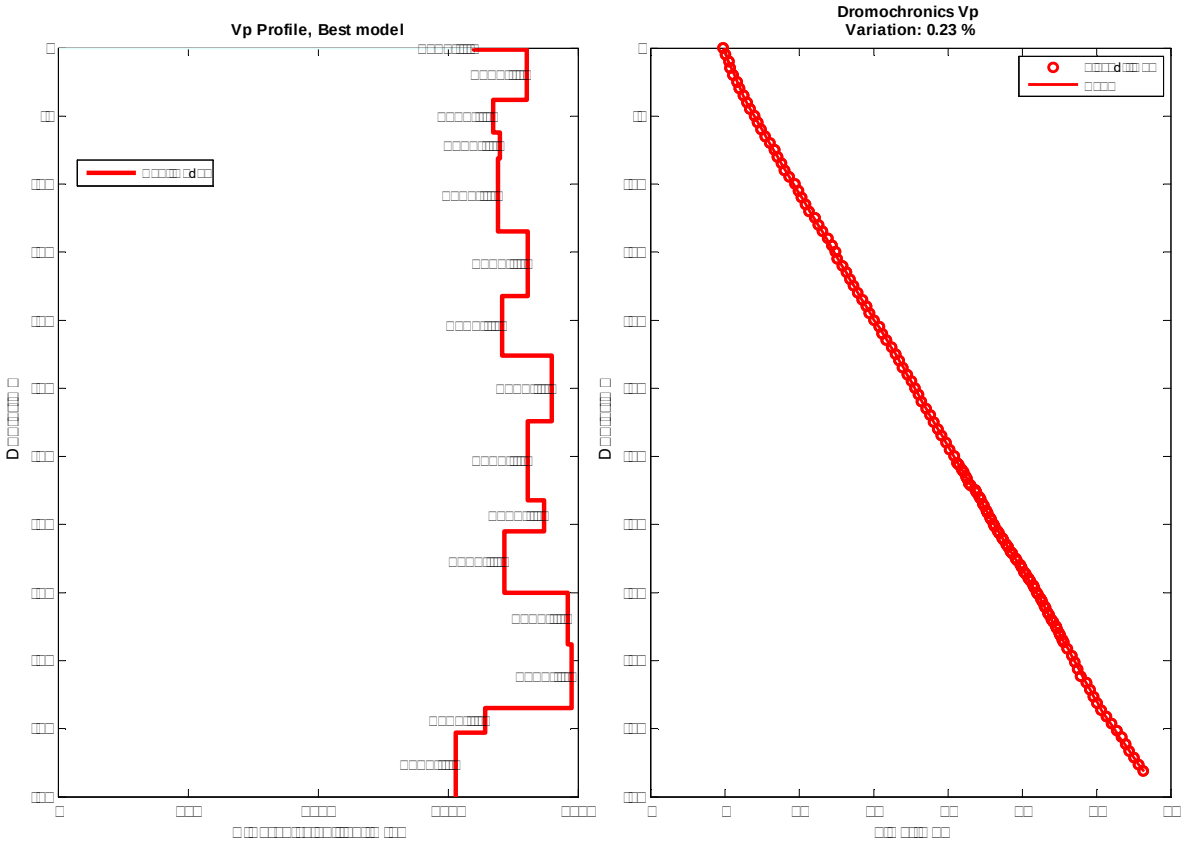


IT2_SPT_02 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

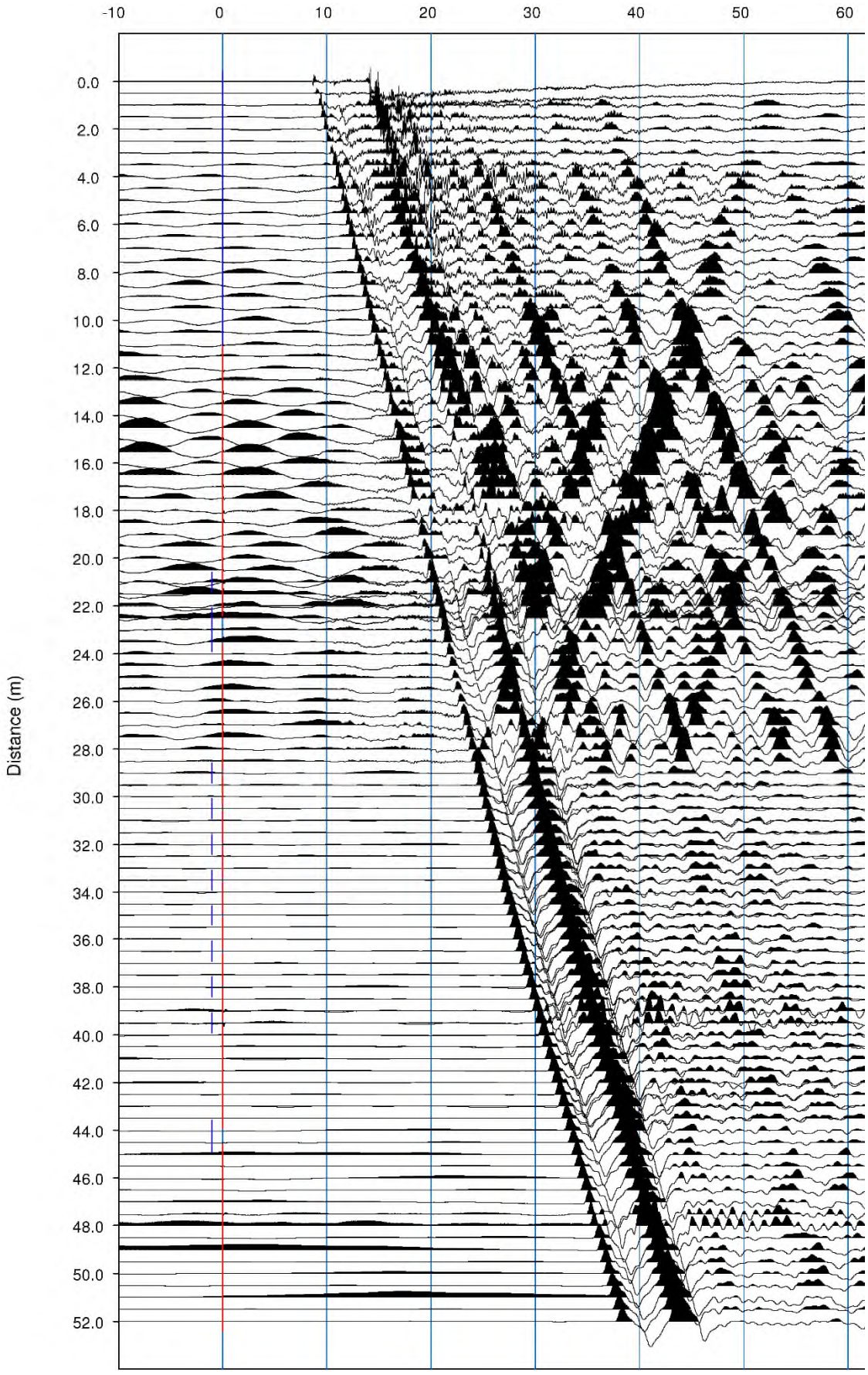




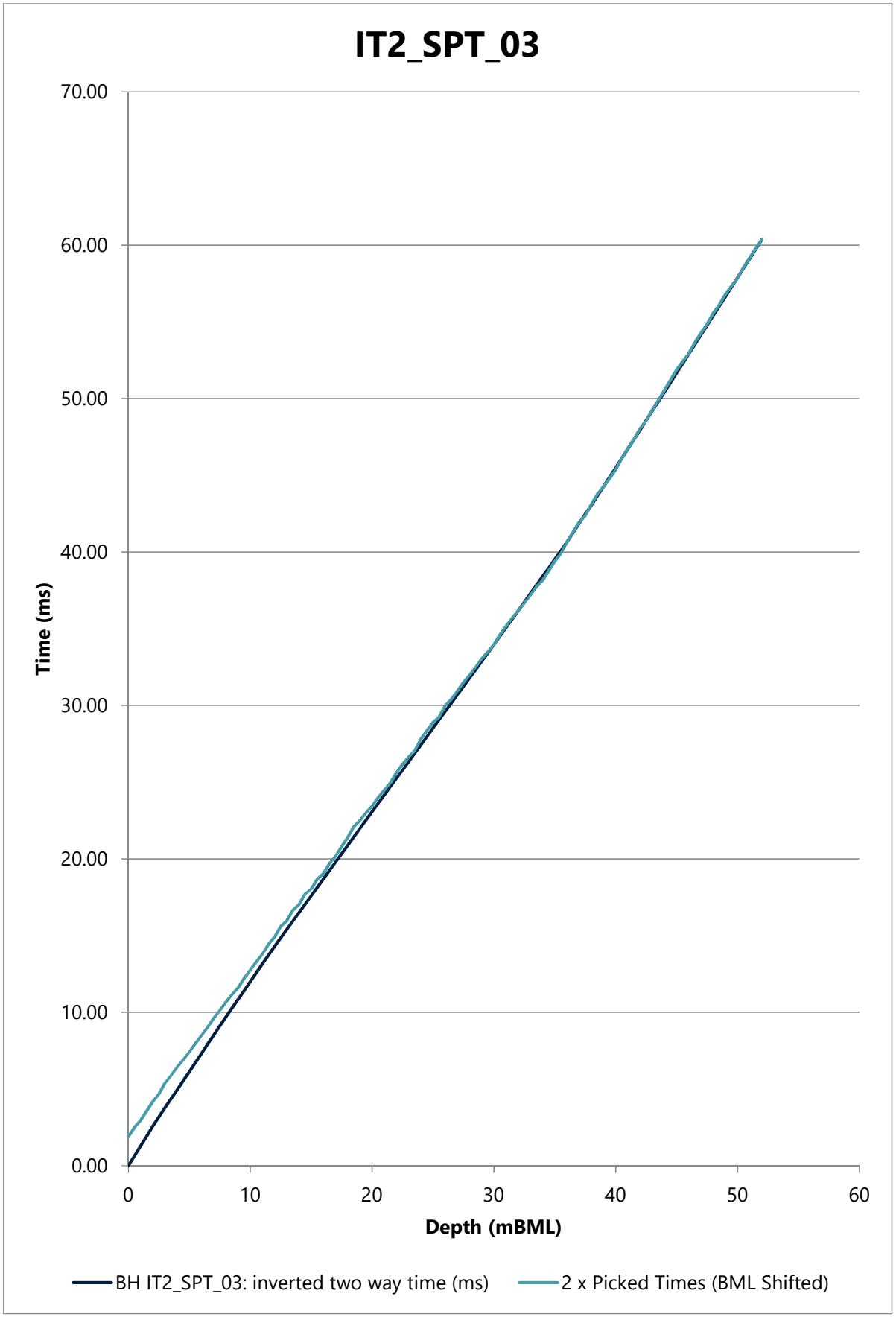
IT2_SPT_02 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



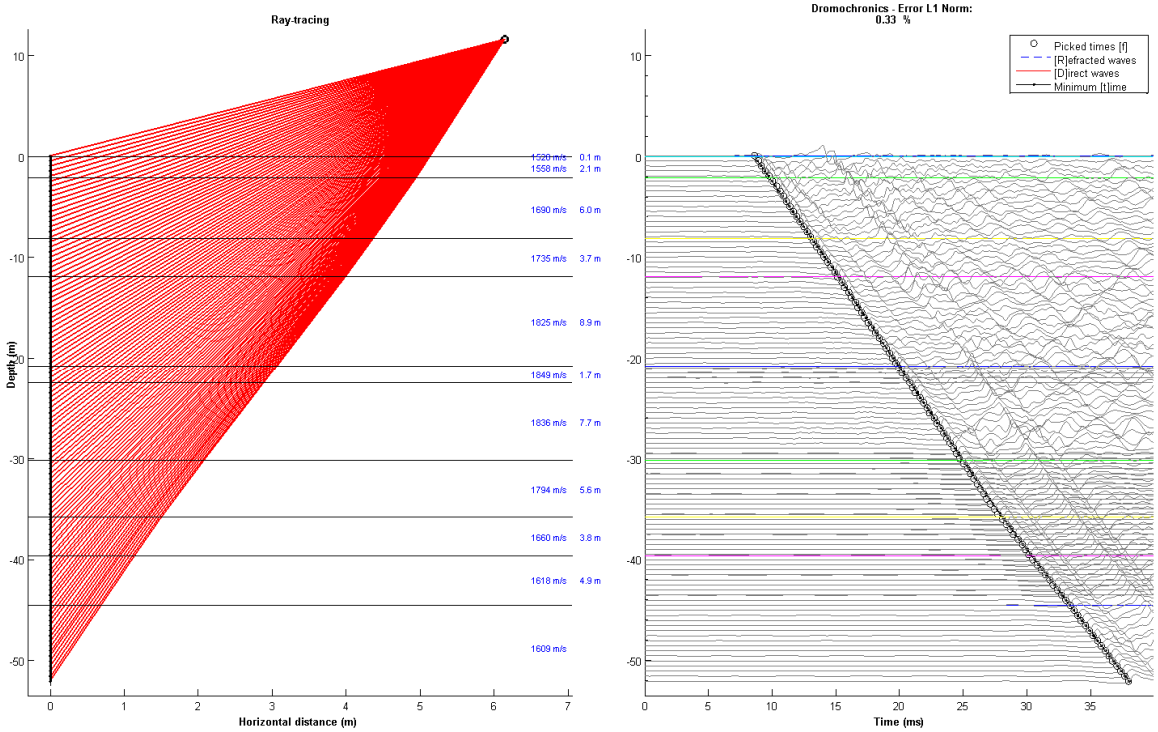
IT2_SPT_03 – Borehole Gather

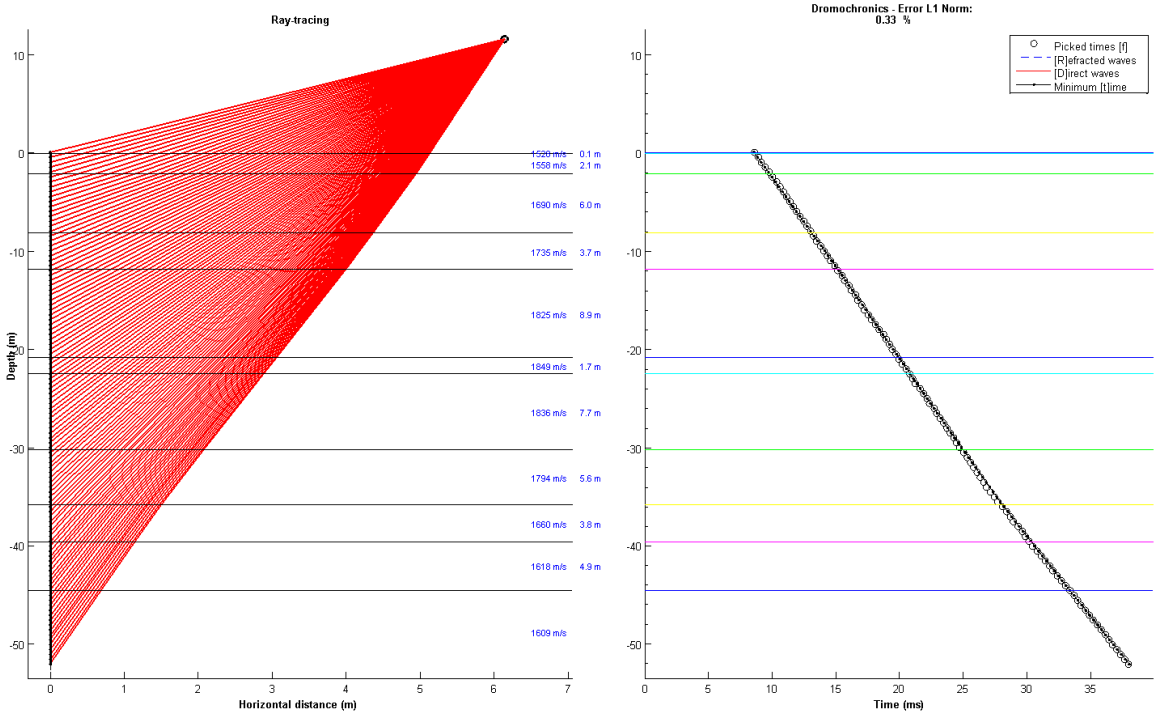


IT2_SPT_03 – Depth versus TWT Plot

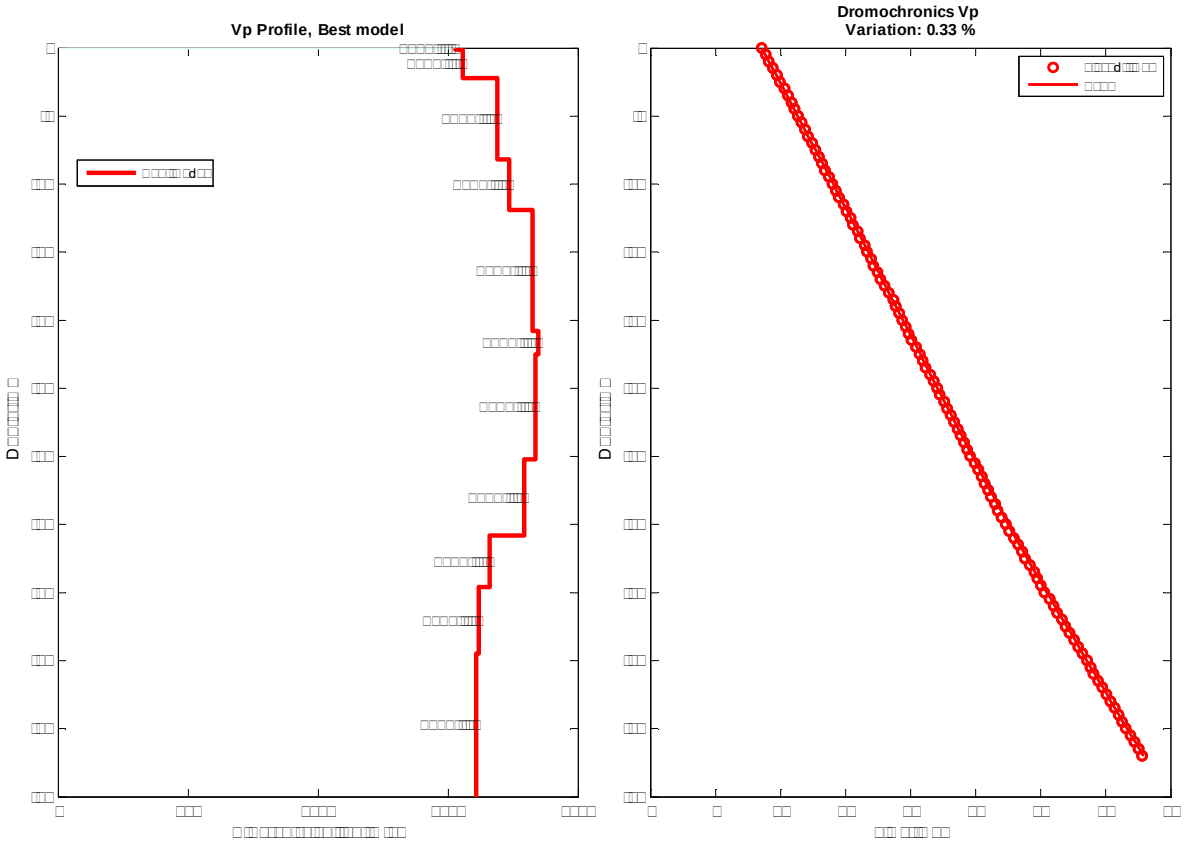


IT2_SPT_03 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

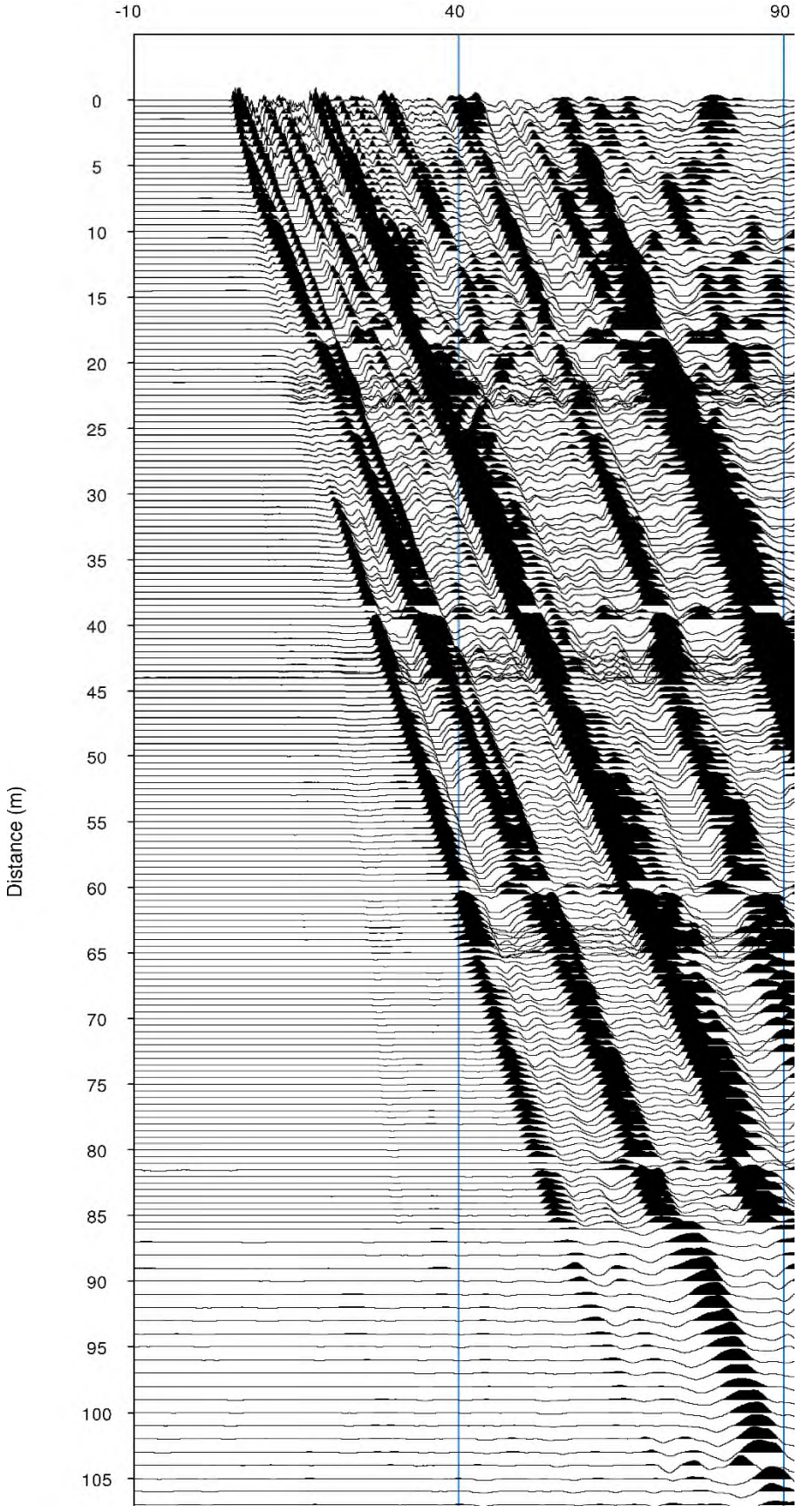




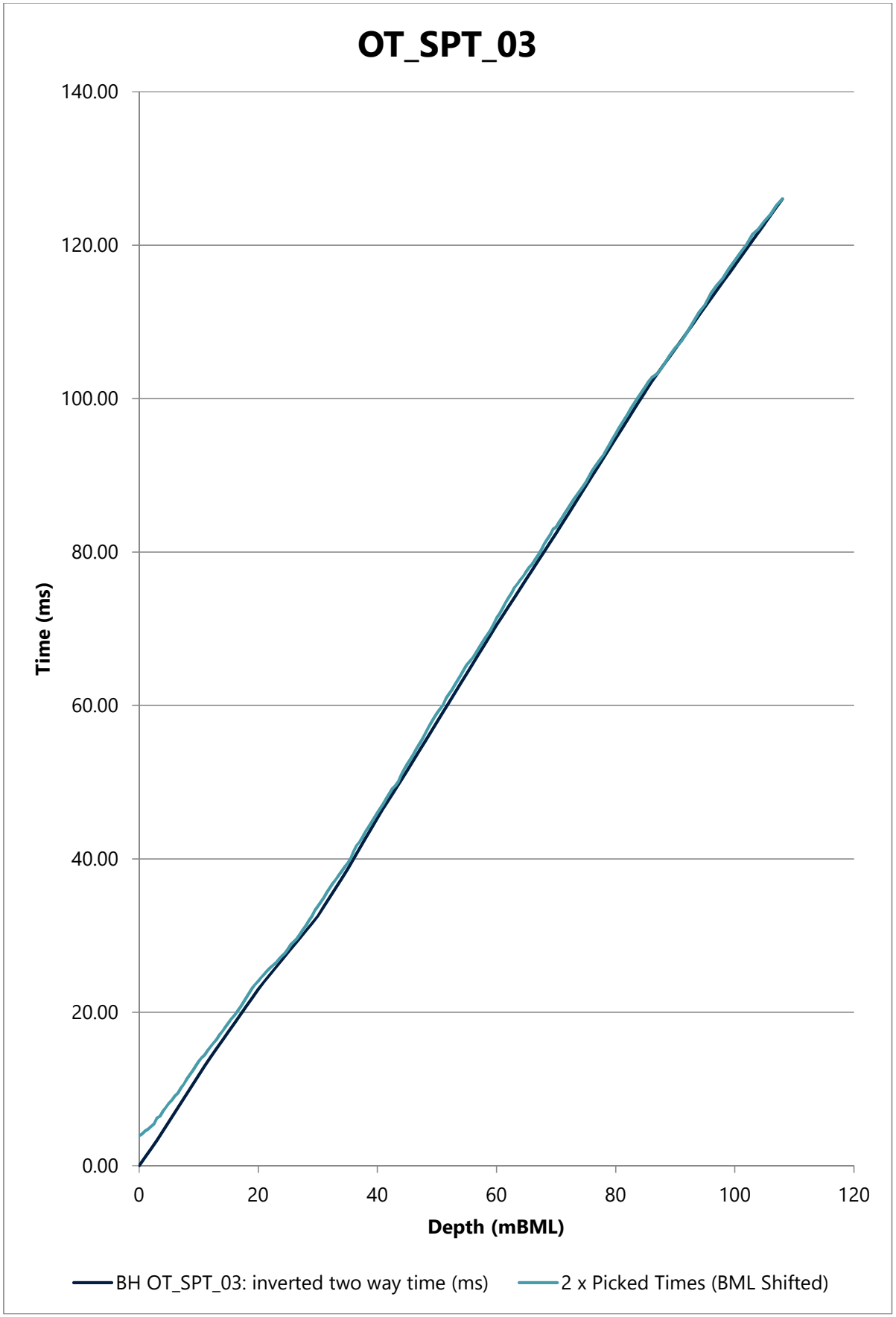
IT2_SPT_03 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



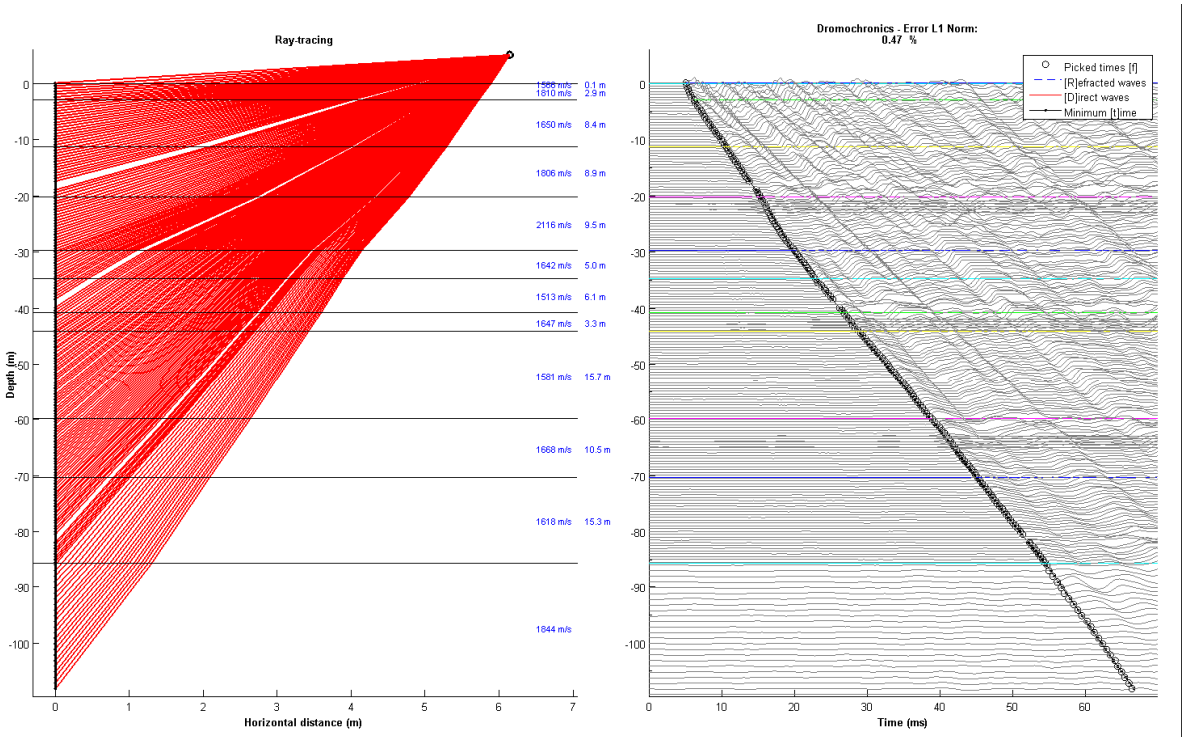
OT_SPT_03 – Borehole Gather

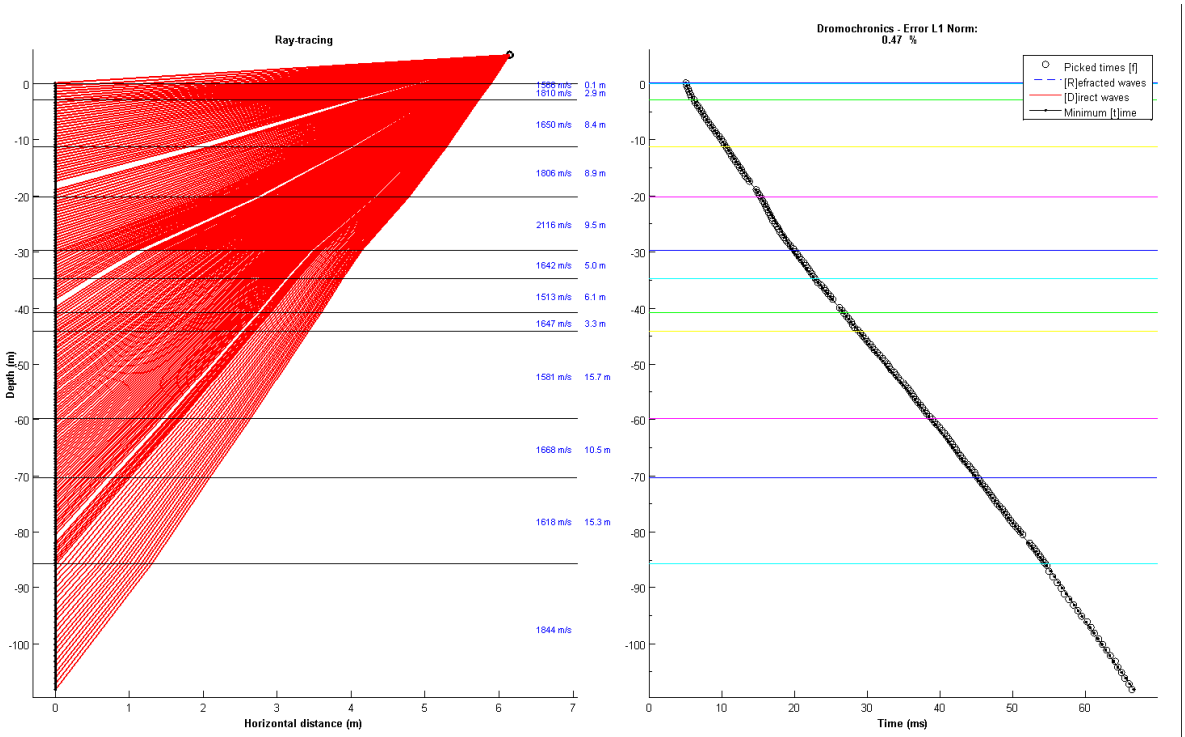


OT_SPT_03 – Depth versus TWT Plot

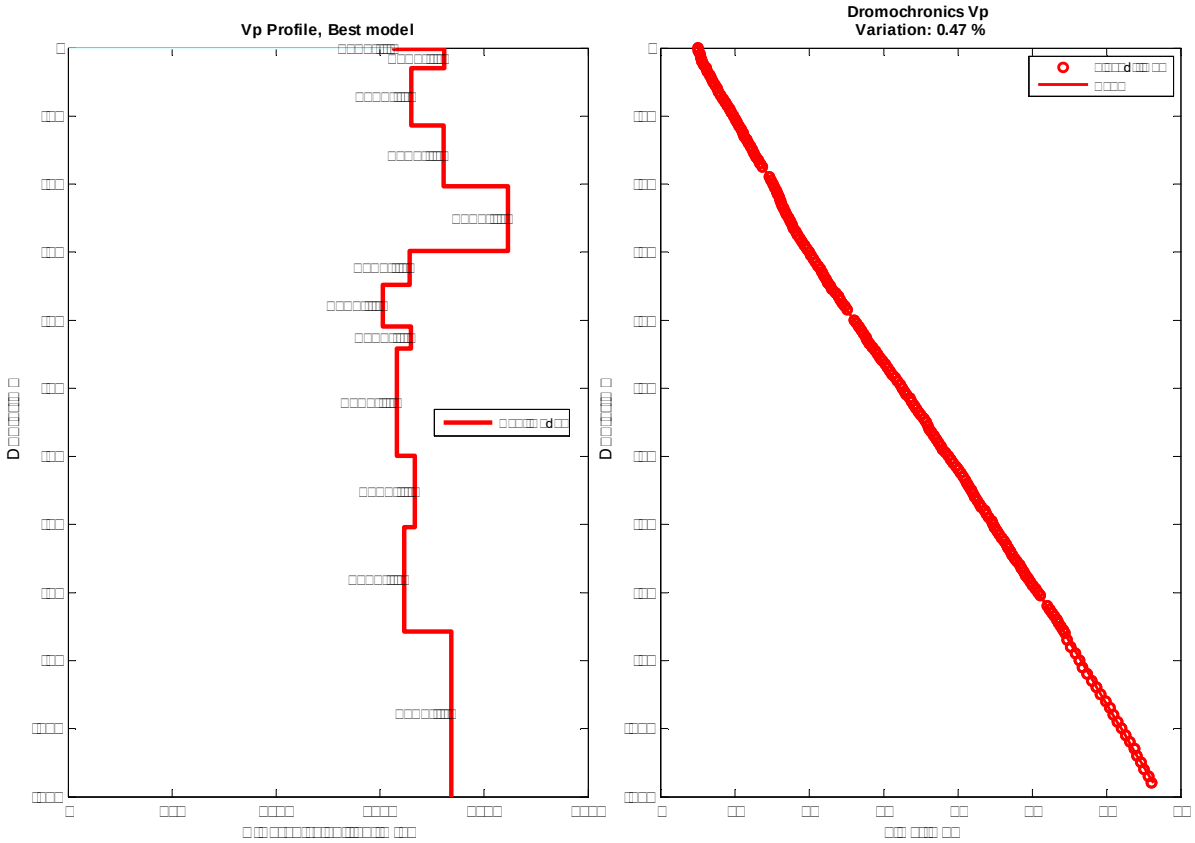


OT_SPT_03 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

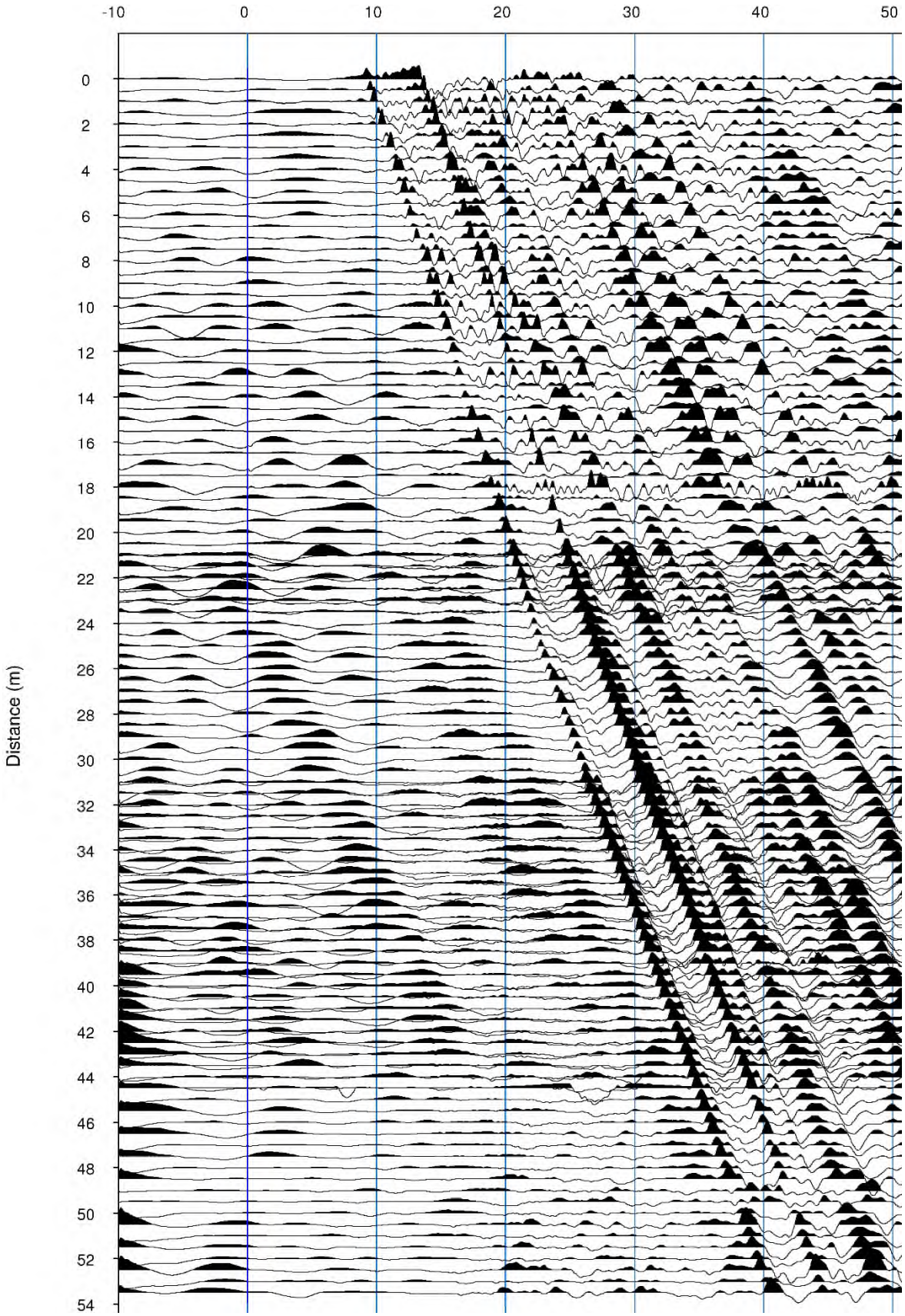




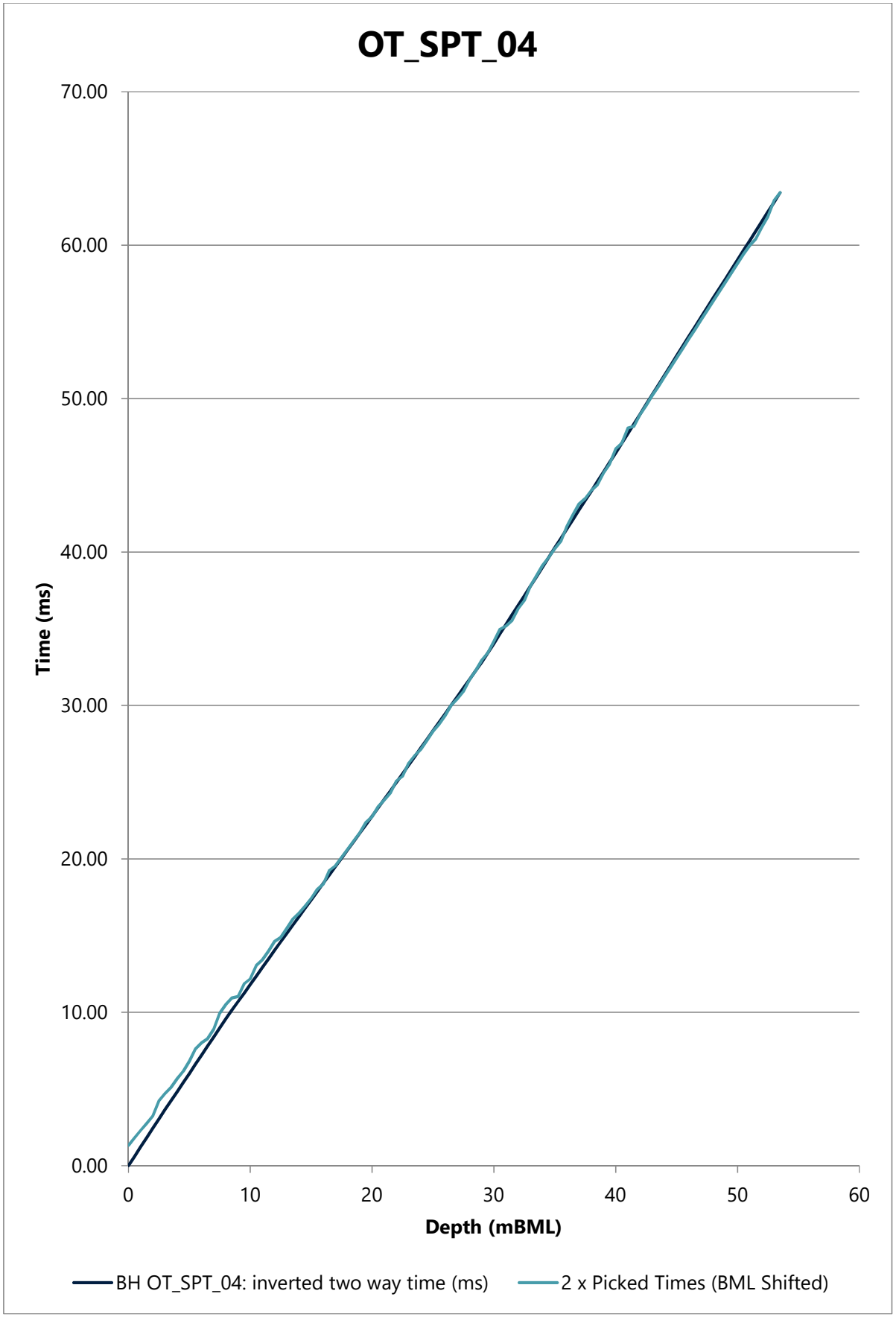
OT_SPT_03 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



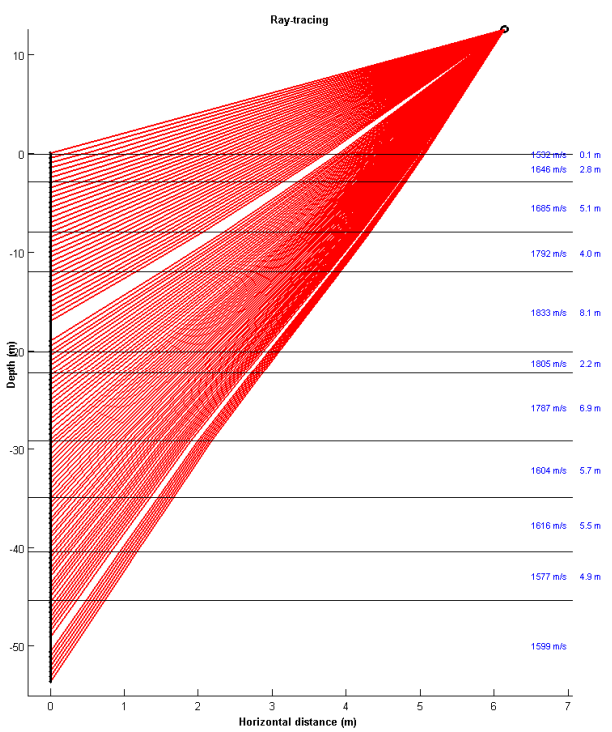
OT_SPT_04 – Borehole Gather

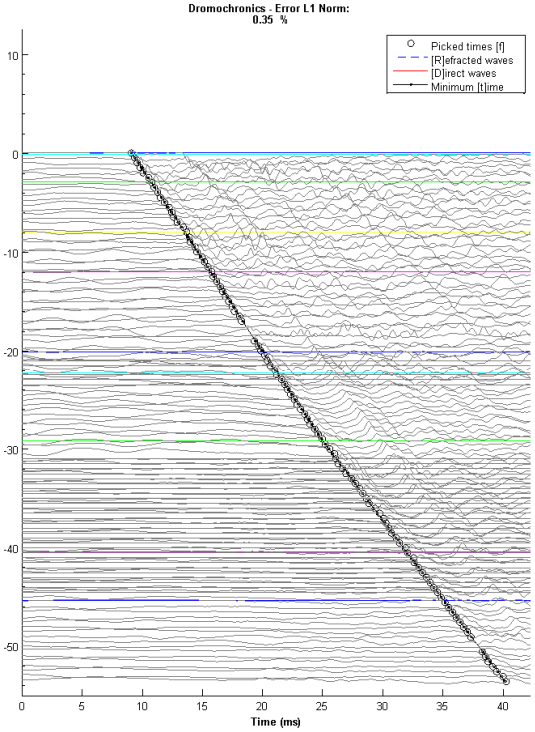


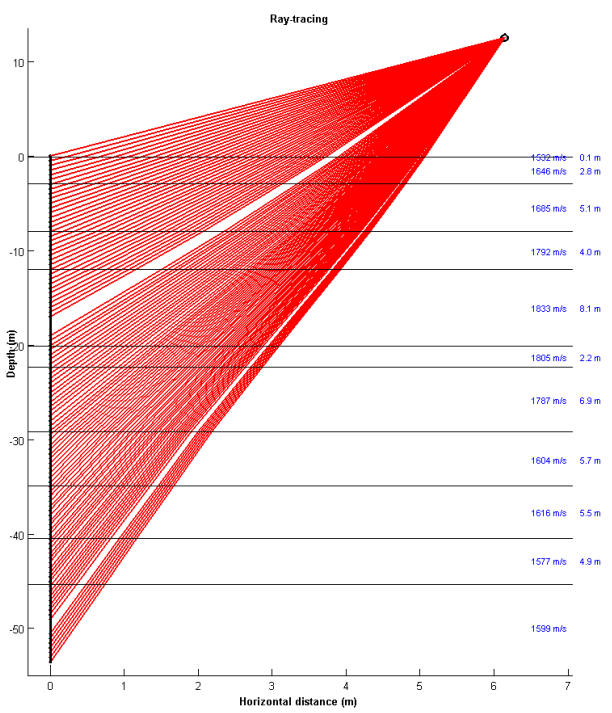
OT_SPT_04 – Depth versus TWT Plot

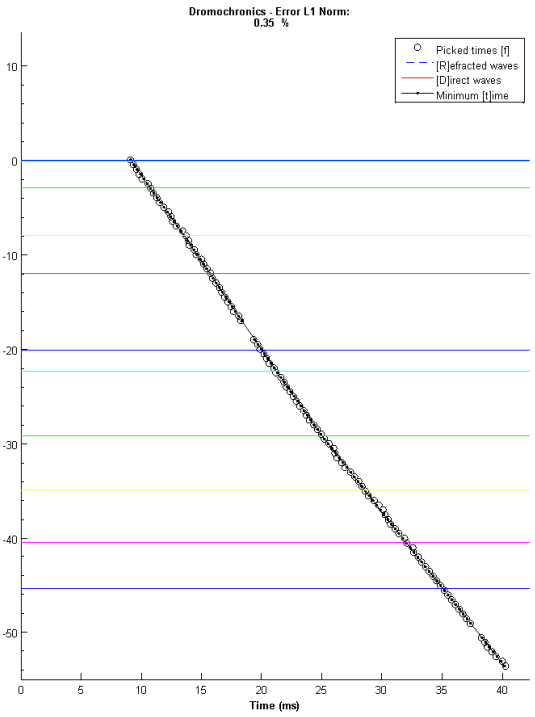


OT_SPT_04 – Inversion Parameter Plots – Raypath Models (left) and Dromochronics (right)

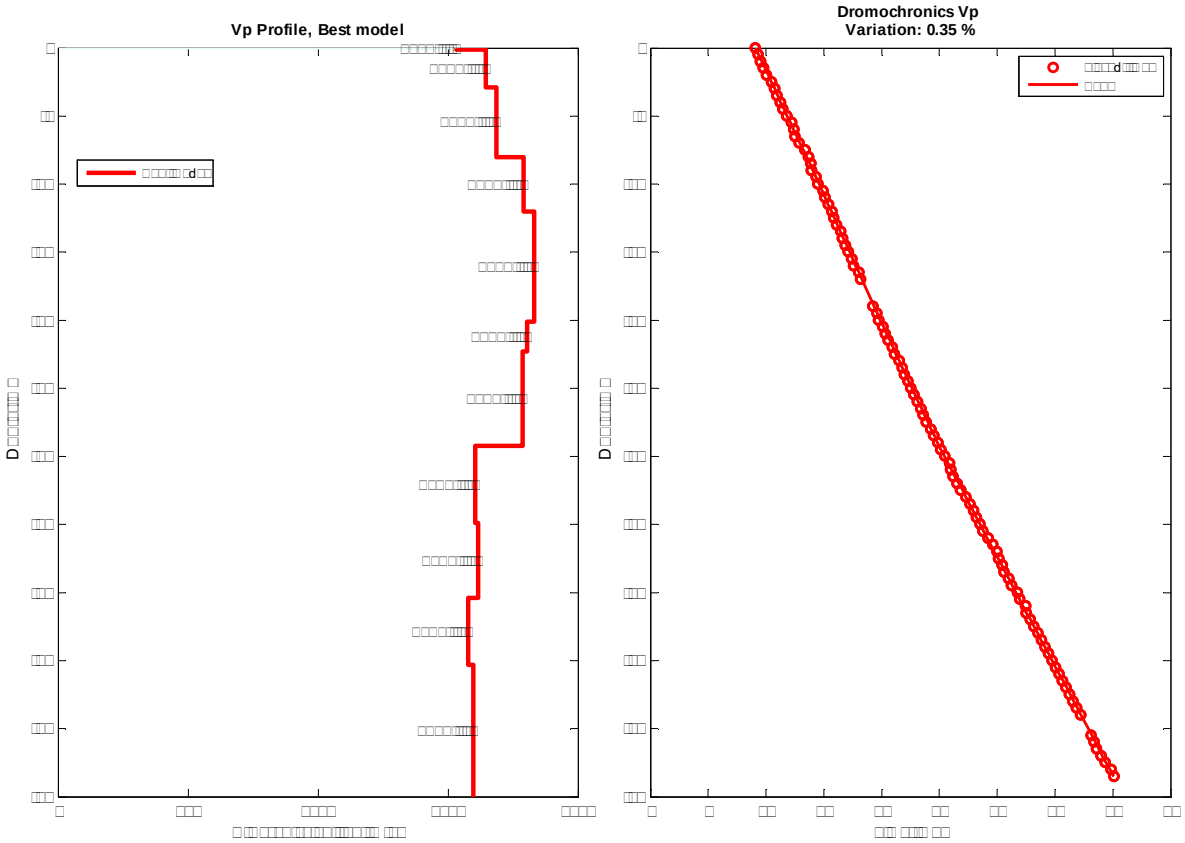








OT_SPT_04 – Inversion Parameter Plots – Velocity Model (left) and Dromochronics (right)



Appendix G

Geotechnical Laboratory

Test Results

Appendix G Contents

G.1 Notes on Geotechnical Laboratory Test Results
G.1.1 Guidance Notes on Laboratory Test Results
G.1.2 Notes on Chemical Analyses for Assessing Aggressive Ground
G.2 UKAS Schedules
G.3 Geotechnical Laboratory Test Results
G.3.1 Fugro Results
G.3.2 Subcontractor Laboratory Results

G.1 Notes on Geotechnical Laboratory Test Results

G.1.1 Guidance Notes on Laboratory Test Results

G.1.1.1 Test Methods

The tests reported on the following sheets have been carried out in accordance with the methods given in BS 1377:1990 or BS 1797 'Methods of test for soils for civil engineering purposes', subject to a small number of variances as described below under the respective headings. These notes also serve as keysheets to any notation used in reporting the FGSL laboratory tests.

Table G.1: Key to Test Result Notation

Key To Notation Of Sample Type	
D	Small disturbed sample
B	Bulk disturbed sample
LB	Large bulk disturbed sample
U/UT	General purpose open drive tube sample
P	Piston sample
TW	Thin wall sample
C	Rotary core sample
Classification Tests	
% passing 425µm	This figure is only correctly reported when 'WS' is shown in the 'Method of preparation' column. For 'HP' and 'AR', the reported figure is an estimate only.
WS	sample prepared by Wet Sieving
AR	sample tested "As Received"
NP	non-plastic
HP	sample prepared by Hand Picking (removal) of gravel sized fragments
Compaction Related Tests	
Sample preparation:	Individual indicates test carried out on individual sub-samples Single indicates test carried out on a single sample
Assumed values	Assumed values of particle density are reported in brackets e.g. (2.67)

G.1.1.2 Sample Descriptions

The sample descriptions shown on the test report sheets are the technician's visual descriptions of the test samples, in accordance with Clause 9.1 of Part 1 of BS 1377:1990 and do not necessarily comply with the requirements of BS 5930:2015 or BS EN ISO 14688-1:2018. For a more comprehensive description of the soil samples to these standards, reference should be made to the exploratory hole records, or an engineering description can be provided on request.

G.1.1.3 Interpretation of Test Results

Laboratory test results in this report give the soil properties of individual specimens tested under specified conditions. Individual results or groups of results may not be appropriate for use as design parameters for some geotechnical analyses. The samples may be non-representative, disturbed internally, or prepared and tested under conditions suited for different geotechnical applications. Unless the selection of design parameters is discussed in this report, it is recommended that the advice of an appropriately qualified and experienced specialist is sought.

G.1.1.4 U100 Driven Open Tube Samples

It should be noted that the sampling method using standard U100 (thick walled or liner OS-TK/W) samplers may give Class 2 samples, i.e. for use for laboratory classification, moisture content and density testing, but more generally Class 3. The sampling procedure using thin wall samples (OS-T/W) can achieve Class 1 samples (strength, deformation and consolidation testing as well as Class 2 type testing) in non-sensitive fine cohesive soils of stiff or lower consistency. In brittle or closely fissured materials such as hard clays, the lower sampling class is more frequently achieved, i.e. for use for laboratory classification and moisture content testing. UT samples are thin wall (OS-T/W) samples and so may provide Class 1 samples.

G.1.2 Notes on Chemical Analyses for Assessing Aggressive Ground

G.1.2.1 Introduction

The Building Research Establishment (BRE) issued guidance in 2001 on assessing the aggressive chemical environment with particular regard to concrete in the ground. The BRE guidance includes sampling and testing methods and requirements. The guidance states that, for BRE aggressiveness samples, the analysis must start as soon as possible after sampling and in all cases within 3 weeks. The BRE guidance also states that samples for aggressiveness testing should be kept in the temperature range of 2 to 4 degrees Celsius and in a dark place.

G.1.2.2 Sampling, Sample Preservation, Transport And Storage

The sampling, storage and testing requirements for BRE aggressiveness testing are similar to those for chemical contamination testing. The standard transport, storage and testing requirements for samples for physical geotechnical testing is unacceptable for the BRE

aggressiveness testing. In consideration of this, samples for BRE testing are taken, handled and stored as if they were environmental chemistry samples. Due to the sample mass requirements, environmental chemistry samples may also be used for BRE aggressiveness testing, but BRE samples are unlikely to be of sufficient mass to undertake environmental chemistry test suites.

The BRE samples taken on site have been preserved by control of temperature to between 2 and 4 degrees Celsius and despatched to the analytical laboratory on the day of sampling under Chain of Custody (CoC) in temperature controlled cool-boxes. Sample temperature control is maintained at the laboratory prior to receipt of testing instructions, preparation and analysis.

Blank testing schedules are provided to the party responsible for scheduling the testing within 1 to 2 working days of sampling.

All environmental chemistry sample types are prefixed with an "E". The environmental chemistry test types are "ES" and "EW", the BRE aggressiveness samples are designated "D" or “W” and may additionally be identified with “BRE”. The major difference between the sample types are that these samples are of less mass and are normally in plastic containers.

G.1.2.3 Scheduled Testing

Figure EC1 in Appendix F summarises the requested BRE (and chemical) analyses scheduled on available samples. Where the requested analysis could not be undertaken this is reported and noted as 'No Determination Possible' (NDP) on Figure EC1 and the reasons given.

The schedule lists the date of sampling, CoC number under which the samples were transported, tests requested and laboratory certificate reference for all samples.

G.1.2.4 Deviating Samples

UKAS is the accreditation body responsible for auditing laboratories to both ISO 17025 and MCERTS in the UK. All UKAS accredited laboratories are required to operate appropriate procedures for the handling of deviating samples.

Deviating (or non-conforming) samples are defined as those which may have been compromised in some way during sampling, transportation, storage or analysis, and which may cause the integrity of the analytical data to be in doubt. These procedures are also applicable to BRE testing and so the handling of these samples must be appropriate to prevent them being classed as deviating.

Examples of deviating samples that can occur from sampling, transportation and storage issues include:

- Incorrect sample containers for analyses requested;
- No sampling date supplied (mandatory for MCERTS);
- No sampling time supplied (applicable for certain water parameters);
- Temperature exceeded;
- Holding time for the analysis exceeded.

Where deviating samples are subsequently analysed, UKAS requires that the competent laboratory "shall include a disclaimer in the report, clearly stating that the sample was deviating and that, as a result, the test result(s) may be invalid". It is also a condition of MCERTS that the whole results certificate is included in reports sent to the client, not just the results sheet, including all supporting information. Each analytical report therefore contains a page detailing the deviating samples and the reasons for the non-conformity.

FGSL undertakes to sample, record, transport and store samples in such a way that deviating samples should not occur unless for reasons outside of FGSL's control.

G.2 UKAS Schedules

UKAS Schedule of Accreditation No. 1483 (Fugro)

UKAS Schedule of Accreditation No. 2139 (DETS)

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE

UKAS
UNITED KINGDOM ACCREDITATION SERVICE

TESTING LABORATORY
No. 1483

Fugro Engineering Services
A trading name of Fugro Seacore Limited

is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005
General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate, and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.com.

This accreditation is subject to continuing conformity
with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
30 March 1994

This certificate issued on
05 April 2012

UKAS is appointed as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 3155/2009) and operates under a Memorandum of Understanding (MoU) with the Department for Business, Innovation and Skills (BIS).

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

1483

Accredited to ISO/IEC 17025:2005

Fugro GeoServices Limited

Issue No: 026 **Issue date:** 02 February 2019

Armstrong House
Unit 43
Number One Industrial Estate
Medomsley Road
Consett
Co Durham
DH8 6TW

Contact: Mr J D Ashworth
Tel: +44 (0)1207-581120
Fax: +44 (0)1207-581609
E-Mail: j.ashworth@fugro.com
Website: www.fugro.com

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ROCK	Point load strength and anisotropy indices	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring:1974-2006. Editors: R Ulusay & J A Hudson
	Water content	
	Porosity and density - by saturation and calliper techniques	
	Porosity and density - by saturation and buoyancy techniques	
	Slake-durability index	
SOILS for civil engineering purposes	California Bearing Ratio (CBR)	BS 1377- 4:1990
	Shear strength by direct shear (small shear box apparatus) (large shear box apparatus)	BS 1377- 7:1990
	Unconfined compressive strength - load frame method	BS 1377- 7:1990
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377- 7:1990
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377- 7:1990

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS for civil engineering purposes (cont'd)	Moisture content - oven drying method	BS 1377- 2:1990
	Saturation moisture content of chalk	BS 1377- 2:1990
	Liquid limit - cone penetrometer - one point	BS 1377- 2:1990
	Plastic limit	BS 1377- 2:1990
	Plasticity index	BS 1377- 2:1990
	Density - linear measurement - linear measurement - immersion in water - water displacement	BS 1377- 2:1990
	Particle density - gas jar - small pyknometer	BS 1377- 2:1990
	Particle size distribution - wet sieving - dry sieving	BS 1377- 2:1990
	Particle size distribution - sedimentation - pipette method	BS 1377- 2:1990
	Dry density/moisture content relationship (2.5 kg rammer) (4.5 kg rammer) (vibrating hammer)	BS 1377- 4:1990
	Moisture condition value (MCV)	BS 1377- 4:1990
	Chalk crushing value	BS 1377- 4:1990

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS for civil engineering purposes (cont'd)	One-dimensional consolidation properties	BS 1377- 5:1990
	Constant head permeability in a triaxial cell	BS 1377- 6:1990
	Consolidated undrained triaxial compression test with the measurement of pore water pressure	BS 1377- 8:1990
	Consolidated undrained triaxial compression test with the measurement of pore water pressure using multistage loading	Documented In-House Method LTPMS 41
	Consolidated drained triaxial compression test with measurement of volume change	BS 1377- 8:1990
	Consolidated drained triaxial compression test with measurement of volume change using multistage loading	Documented In-House Method LTPMS 42
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014
	Bulk density - linear measurement method - immersion in fluid method - fluid displacement method	BS EN ISO 17892-2:2014
	Determination of particle density - fluid pyknometer method	BS EN ISO 17892-3:2015
	Determination of particle size distribution - sieving method - pipette method	BS EN ISO 17892-4:2016
	Incremental loading oedometer test	BS EN ISO 17892-5:2017
END		

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2139

Accredited to ISO/IEC 17025:2017

Derwentside Environmental Testing Services Ltd

Issue No: **Issue date:**

Unit 2 **Park Road Industrial Estate** **Consett** **Co Durham** **DH8 5PY**	**Contact: Mr J Coffer** **Tel: +44 (0)1207 582333** **E-Mail: info@dets.co.uk** **Website: www.dets.co.uk**

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address **Local contact**		

Site activities performed away from the locations listed above:

Location details	Activity	Location code

Schedule of Accreditation
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2139
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Derwentside Environmental Testing Services Ltd

Issue No: **Issue date:**

Testing performed by the Organisation at the locations specified

Schedule of Accreditation
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2139
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ISO/IEC 17025:2017

Derwentside Environmental Testing Services Ltd

Issue No: **Issue date:**

Testing performed by the Organisation at the locations specified

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Schedule of Accreditation
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United Kingdom Accreditation Service

2139
Accredited to
ISO/IEC 17025:2017

Derwentside Environmental Testing Services Ltd

Issue No: [illegible] **Issue date:** [illegible]

Testing performed by the Organisation at the locations specified

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[illegible]	[illegible]		
[illegible]	M[illegible]		
[illegible]	M[illegible]		
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[illegible]	M[illegible]		
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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	D[illegible]	A[illegible]
[illegible]	[illegible]	D[illegible]	
[illegible]	[illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	D[illegible] M[illegible]	A[illegible]

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	A (cont'd)		
	d	D M d	A
		D	
Landfill leachate (cont'd)	d r	D M d	A
		D	
	dr	D M d	A
		D	
	d	D M d	A
		D	
	d	D M d	A
		D	
	d	D M d	A
		D	
	dr	D M d	A
		D	
	r d	D M d	A
		D D	
	r	D M d	A
		D A	
		D M d	A
		D A	
	r	D M d	A
		D A	
	r	D M d	A
		D A	

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Measurement, examination or derived quantity measured	Range of measurement, examination or derived quantity measured and uncertainty of measurement, examination or derived quantity, if applicable	Reference standard or method of measurement, examination or derived quantity and equipment used	Remarks
	Analysis (cont'd)		
[illegible]	[illegible]	[illegible]	A
GROUNDWATER (cont'd)	[illegible]	[illegible]	A
	Dissolved	[illegible]	A
[illegible]	[illegible]	[illegible]	
	Ar [illegible]	[illegible]	
	Ar [illegible]	[illegible]	
	Ar [illegible]	[illegible]	
	Ar [illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	A
	Hydrocarbons (PAH's)		
	[illegible]		
	[illegible]		
	[illegible]

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Measurement, examination or derived property measured	Materials or products tested or inspected, or range of materials or products covered	Description of the procedure or reference to the method used	Notes
	Aqueous (cont'd)		
[illegible]	[illegible] (PCB's) specifically:	[illegible]	[illegible]
GROUNDWATER (cont'd)			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications, techniques and equipment used	Remarks
	Appendix (cont'd)		
Aggregates for concrete, mortar and grout Recycled aggregates Aggregates for bituminous mixtures and surface treatments for roads and other trafficked areas Aggregates for unbound and hydraulically bound mixtures Aggregates for railway ballast	Determination of particle size distribution Determination of shape properties Determination of the percentage of crushed and broken surfaces in coarse aggregate particles Determination of flow coefficient of aggregates Determination of particle density and water absorption Determination of the resistance to fragmentation Determination of the resistance to wear (micro-Deval) Determination of the resistance to surface abrasion Determination of the polished stone value Determination of the resistance to wear by studded tyres Determination of the resistance to fragmentation by repeated impact Determination of the resistance to fragmentation by slow compression Determination of the resistance to fragmentation by rapid loading Determination of the resistance to fragmentation by abrasion Determination of the resistance to fragmentation by attrition Determination of the resistance to fragmentation by impact Determination of the resistance to fragmentation by compression Determination of the resistance to fragmentation by shear Determination of the resistance to fragmentation by tension Determination of the resistance to fragmentation by bending Determination of the resistance to fragmentation by torsion Determination of the resistance to fragmentation by combined loading Determination of the resistance to fragmentation by cyclic loading Determination of the resistance to fragmentation by fatigue Determination of the resistance to fragmentation by creep Determination of the resistance to fragmentation by relaxation Determination of the resistance to fragmentation by stress corrosion Determination of the resistance to fragmentation by hydrogen embrittlement Determination of the resistance to fragmentation by liquid metal embrittlement Determination of the resistance to fragmentation by solid metal embrittlement Determination of the resistance to fragmentation by gaseous embrittlement Determination of the resistance to fragmentation by radiation embrittlement Determination of the resistance to fragmentation by thermal embrittlement Determination of the resistance to fragmentation by mechanical embrittlement Determination of the resistance to fragmentation by chemical embrittlement Determination of the resistance to fragmentation by electrochemical embrittlement Determination of the resistance to fragmentation by biological embrittlement Determination of the resistance to fragmentation by environmental embrittlement Determination of the resistance to fragmentation by combined embrittlement Determination of the resistance to fragmentation by synergistic embrittlement Determination of the resistance to fragmentation by antagonistic embrittlement Determination of the resistance to fragmentation by additive embrittlement Determination of the resistance to fragmentation by multiplicative embrittlement Determination of the resistance to fragmentation by exponential embrittlement Determination of the resistance to fragmentation by logarithmic embrittlement Determination of the resistance to fragmentation by power law embrittlement Determination of the resistance to fragmentation by Weibull embrittlement Determination of the resistance to fragmentation by Gaussian embrittlement Determination of the resistance to fragmentation by Poisson embrittlement Determination of the resistance to fragmentation by binomial embrittlement Determination of the resistance to fragmentation by hypergeometric embrittlement Determination of the resistance to fragmentation by negative binomial embrittlement Determination of the resistance to fragmentation by geometric embrittlement Determination of the resistance to fragmentation by uniform embrittlement Determination of the resistance to fragmentation by triangular embrittlement Determination of the resistance to fragmentation by trapezoidal embrittlement Determination of the resistance to fragmentation by parabolic embrittlement Determination of the resistance to fragmentation by hyperbolic embrittlement Determination of the resistance to fragmentation by elliptical embrittlement Determination of the resistance to fragmentation by circular embrittlement Determination of the resistance to fragmentation by spherical embrittlement Determination of the resistance to fragmentation by cylindrical embrittlement Determination of the resistance to fragmentation by conical embrittlement Determination of the resistance to fragmentation by pyramidal embrittlement Determination of the resistance to fragmentation by prismatic embrittlement Determination of the resistance to fragmentation by cubic embrittlement Determination of the resistance to fragmentation by tetrahedral embrittlement Determination of the resistance to fragmentation by octahedral embrittlement Determination of the resistance to fragmentation by dodecahedral embrittlement Determination of the resistance to fragmentation by icosahedral embrittlement	Determination of particle size distribution – Test sieving method Determination of particle size distribution – Sedimentation methods Determination of particle size distribution – Optical methods Determination of particle size distribution – Electrical methods Determination of particle size distribution – Laser diffraction methods Determination of particle size distribution – Image analysis methods Determination of particle size distribution – Other methods Determination of particle size distribution – Combined methods Determination of particle size distribution – Validation Determination of particle size distribution – Uncertainty Determination of particle size distribution – Traceability Determination of particle size distribution – Calibration Determination of particle size distribution – Verification Determination of particle size distribution – Quality control Determination of particle size distribution – Quality assurance Determination of particle size distribution – Reporting Determination of particle size distribution – Interpretation Determination of particle size distribution – Application Determination of particle size distribution – Limitations Determination of particle size distribution – Advantages Determination of particle size distribution – Disadvantages Determination of particle size distribution – Comparison Determination of particle size distribution – Selection Determination of particle size distribution – Optimization Determination of particle size distribution – Validation Determination of particle size distribution – Uncertainty Determination of particle size distribution – Traceability Determination of particle size distribution – Calibration Determination of particle size distribution – Verification Determination of particle size distribution – Quality control Determination of particle size distribution – Quality assurance Determination of particle size distribution – Reporting Determination of particle size distribution – Interpretation Determination of particle size distribution – Application Determination of particle size distribution – Limitations Determination of particle size distribution – Advantages Determination of particle size distribution – Disadvantages Determination of particle size distribution – Comparison Determination of particle size distribution – Selection Determination of particle size distribution – Optimization	Determination of particle size distribution – Test sieving method Determination of particle size distribution – Sedimentation methods Determination of particle size distribution – Optical methods Determination of particle size distribution – Electrical methods Determination of particle size distribution – Laser diffraction methods Determination of particle size distribution – Image analysis methods Determination of particle size distribution – Other methods Determination of particle size distribution – Combined methods Determination of particle size distribution – Validation Determination of particle size distribution – Uncertainty Determination of particle size distribution – Traceability Determination of particle size distribution – Calibration Determination of particle size distribution – Verification Determination of particle size distribution – Quality control Determination of particle size distribution – Quality assurance Determination of particle size distribution – Reporting Determination of particle size distribution – Interpretation Determination of particle size distribution – Application Determination of particle size distribution – Limitations Determination of particle size distribution – Advantages Determination of particle size distribution – Disadvantages Determination of particle size distribution – Comparison Determination of particle size distribution – Selection Determination of particle size distribution – Optimization	

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M[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	A[illegible] (cont'd)	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	A[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[

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		D	A
		D	A
		D	A
		D	A
		D	A
		D	A
		D	A
		M D	A
		D	A
		D	A

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M[illegible]	[illegible]	[illegible]	[illegible]
SEDIMENTS (cont'd)	[illegible] (cont'd)		
[illegible]	M[illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	M[illegible] Ar[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] M[illegible] M[illegible] [illegible] [illegible] [illegible] [illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	[illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	[illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	[illegible] [illegible] [illegible] M[illegible] [illegible] [illegible] [illegible]	D[illegible] M[illegible]	A[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

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M[illegible]	[illegible]	[illegible]	[illegible]
SEDIMENTS (cont'd)	[illegible] (cont'd)		
	[illegible]	D[illegible] M[illegible]	A[illegible]
	[illegible] Ar[illegible] Hydrocarbons (PAH's) [illegible]	D[illegible] M[illegible]	A[illegible]
	A[illegible]		
	A[illegible]		
	[illegible]		
	[illegible]		
	A[illegible]		
	[illegible]		
	[illegible]		
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	[illegible]		
	[illegible]		
	[illegible]		
	D[illegible]		
	[illegible]		
	D[illegible]		
	[illegible]		
	[illegible]	D[illegible] M[illegible]	A[illegible]
	A[illegible]		
	[illegible]	D[illegible] M[illegible]	A[illegible]
	[illegible]	D[illegible] M[illegible]	A[illegible]
	A[illegible]	D[illegible] M[illegible]	A[illegible]
	[illegible]	D[illegible] M[illegible]	A[illegible]

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Measurand/Parameter/Product/Material Tested	Type of Test/Properties Measured/Range of Measurement	Standard Specification/Equipment/Techniques Used	Remarks
SOILS (cont'd)	Asbestos (cont'd)		
	Identification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Gravimetric Quantification	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting Gravimetric Quantification	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting Gravimetric Quantification	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting Gravimetric Quantification	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting Gravimetric Quantification	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting Gravimetric Quantification	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting	A
	Identification and quantification	Determination of Asbestos Fibres in Soil by Polarised Light Microscopy and Dispersion Staining Fibre Counting Gravimetric Quantification	A

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M[illegible]	[illegible]	[illegible]	[illegible]
SOILS (cont'd)	A[illegible] (cont'd)	D[illegible]	A
	A[illegible]	D[illegible]	A
	Total PAH's (Sum of EPA 16)	D[illegible]	A
[illegible]	[illegible]	D[illegible]	A
[illegible]	[illegible]	D[illegible]	A
	[illegible]	D[illegible]	A
	[illegible]	D[illegible]	A

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Materials or product tested	Type of test/properties measured/range of measurement	Standard specification with which compliance is demonstrated	Test number(s)
(cont'd)	Asbestos (cont'd)		
	[illegible]	Determination of asbestos fibres in soil by dispersion staining and gravimetry	Accredited
	Compounds: (cont'd)	Determination of Metaldehyde in soil by LC-MS/MS	
	[illegible]		
	[illegible]		
	[illegible]

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M		
(cont'd)	A (cont'd)	D M

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M[illegible]	[illegible]	[illegible]	[illegible]
[illegible] (cont'd)	A[illegible] (cont'd)	D[illegible]	A[illegible]
		D[illegible]	
		[illegible] M[illegible]	
	A[illegible] (cont'd)		
[illegible] MA[illegible]	[illegible] M[illegible]	D[illegible]	A[illegible]
	A[illegible] M[illegible]	D[illegible]	A[illegible]
	[illegible]	D[illegible]	A[illegible]
	[illegible]	D[illegible]	A[illegible]
	[illegible]	D[illegible]	A[illegible]
[illegible] MA[illegible]	A[illegible]	D[illegible]	A[illegible]
[illegible]	M[illegible]	D[illegible] d[illegible]	A[illegible]

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M[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	A[illegible] (cont'd)	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M[illegible]	D[illegible]	A[illegible]
[illegible]	A[illegible]	[illegible]	
	Ar[illegible]		
	A[illegible]		
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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	D[illegible]	A[illegible]
[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	D[illegible]	A[illegible]
	[illegible]		
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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	D[illegible]	A[illegible]
		DD[illegible]	
		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

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	A (cont'd)		
D MA R R D A		D M A	A
D MA R R D A		D M A	A
D MA R R D A	M A	D M A D R	A
R D A r		D M A D R	

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M[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

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Materials or product tested	Type of test/Properties measured/Range of measurement	Specification/equipment used/Reference standard	Comments
SOILS (cont'd)	Analysis (cont'd)	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Testing of Soil (cont'd)	
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A
	Preparation of Metals in Soil	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Digestion with aqua regia	A

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SOILS (cont'd)	(cont'd)	Testing of Soil (cont'd)	
			A
			A
			A

Materials or products tested	Type of test/properties measured/range of measurement	Standard specification and/or test method	Notes
SOILS (cont'd)	Analysis (cont'd)	Determination of Metals and Metalloids in Soil and Soil Leachates by ICP-OES In-house method based on BS EN ISO 11885:2009 Testing of Soil (cont'd)	
	Determination of Organic Matter by Loss on Ignition at 450°C	Determination of Organic Matter by Loss on Ignition at 450°C	A
	Determination of Petroleum Hydrocarbons in Soil by GC-FID Aliphatic >C5-C6 Aliphatic >C6-C8 Aliphatic >C8-C10 Aliphatic >C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aliphatic >C35-C44 Aromatic >C5-C7 Aromatic >C7-C8 Aromatic >C8-C10 Aromatic >C10-C12 Aromatic >C12-C16 Aromatic >C16-C21 Aromatic >C21-C35 Aromatic >C35-C44 MTBE Benzene Toluene Ethylbenzene m & p-Xylene o-Xylene Naphthalene	Determination of Petroleum Hydrocarbons in Soil by GC-FID In-house method based on Wilcke et al. (2005) Soil Biology & Biochemistry 37, 1973-1976	A
	Determination of Petroleum Hydrocarbons in Soil by GC-FID Aliphatic >C5-C6 Aliphatic >C6-C8 Aliphatic >C8-C10 Aliphatic >C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aliphatic >C35-C44 Aromatic >C5-C7 Aromatic >C7-C8 Aromatic >C8-C10 Aromatic >C10-C12 Aromatic >C12-C16 Aromatic >C16-C21 Aromatic >C21-C35 Aromatic >C35-C44 MTBE Benzene Toluene Ethylbenzene m & p-Xylene o-Xylene Naphthalene	Determination of Petroleum Hydrocarbons in Soil by GC-FID In-house method based on Wilcke et al. (2005) Soil Biology & Biochemistry 37, 1973-1976	A
	Determination of Petroleum Hydrocarbons in Soil by GC-FID Aliphatic >C5-C6 Aliphatic >C6-C8 Aliphatic >C8-C10 Aliphatic >C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aliphatic >C35-C44 Aromatic >C5-C7 Aromatic >C7-C8 Aromatic >C8-C10 Aromatic >C10-C12 Aromatic >C12-C16 Aromatic >C16-C21 Aromatic >C21-C35 Aromatic >C35-C44 MTBE Benzene Toluene Ethylbenzene m & p-Xylene o-Xylene Naphthalene	Determination of Petroleum Hydrocarbons in Soil by GC-FID In-house method based on Wilcke et al. (2005) Soil Biology & Biochemistry 37, 1973-1976	A

Schedule of Accreditation
issued by
United Kingdom Accreditation Service

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Derwentside Environmental Testing Services Ltd

Issue No: **Issue date:**

Testing performed by the Organisation at the locations specified

SOILS (cont'd)	(cont'd)	Testing of Soil (cont'd)	
			A
			A

Schedule of Accreditation
issued by
United Kingdom Accreditation Service

2139
Accredited to
ISO/IEC 17025:2017

Derwentside Environmental Testing Services Ltd

Issue No: **Issue date:**

Testing performed by the Organisation at the locations specified

	(cont'd)		

G.3 Geotechnical Laboratory Test Results

G.3.1 Fugro Results

Summary of Soil Classification Test Results

Particle Size Distribution Curves

Summary of Fines Content (< 75 µm) Results

Summary of Maximum and Minimum Dry Densities for Granular Soils

Isotropically Consolidated Undrained Triaxial Compression Test: Multiple Specimens (with measurement of pore water pressure)

Determination of the Shear Strength by Direct Shear

Intact Dry Density of Irregular Chalk Lumps Summary

Saturation Moisture Content - Summary of Results

Point Load Strength Index Tests – Summary of Results

Uniaxial Compression Test on Rock - Summary of Results - Chalk

G.3.2 Subcontractor Laboratory Results

DETS Certificates of Analysis (19-15711, 19-15713, 19-16530, 19-17024-1, 19-17027, 19-17855, 19-18213, 19-19008, 19-19649-1, 19-20198, 19-20423, 19-21411 and 19-21464)

Summary of Classification Test Results

Summary of Classification Test Results

Summary of Classification Test Results

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Summary of Classification Test Results

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Summary of Classification Test Results

Summary of Classification Test Results

Summary of Classification Test Results

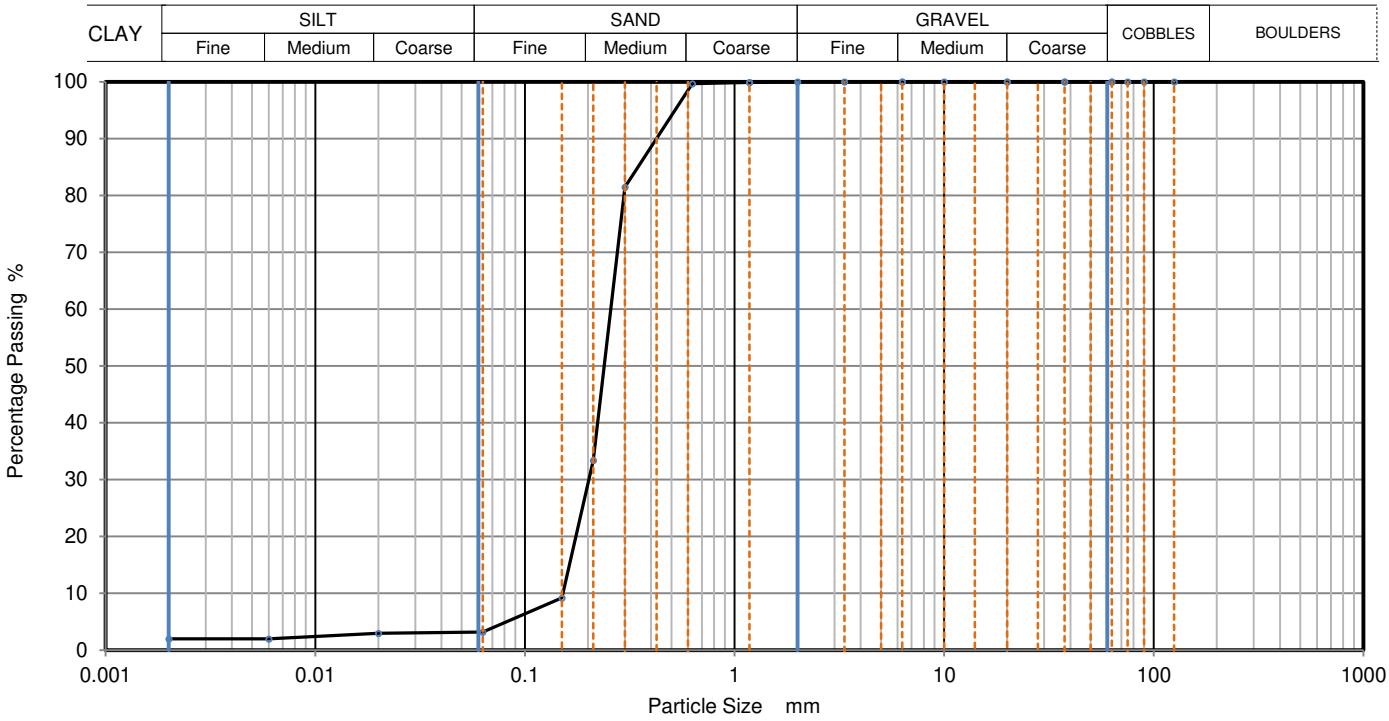
Summary of Classification Test Results

Summary of Classification Test Results

Summary of Classification Test Results

Summary of Classification Test Results

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	7
Description	Red brown slightly clayey SAND			Depth, m	12.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-0W00CA-XI4D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	2
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	100	2.70	Mg/m3
0.3	82		
0.212	33		
0.15	9		
0.063	3		

Dry Mass of sample, g	1162

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	96.8
Silt	1.3
Clay	1.9

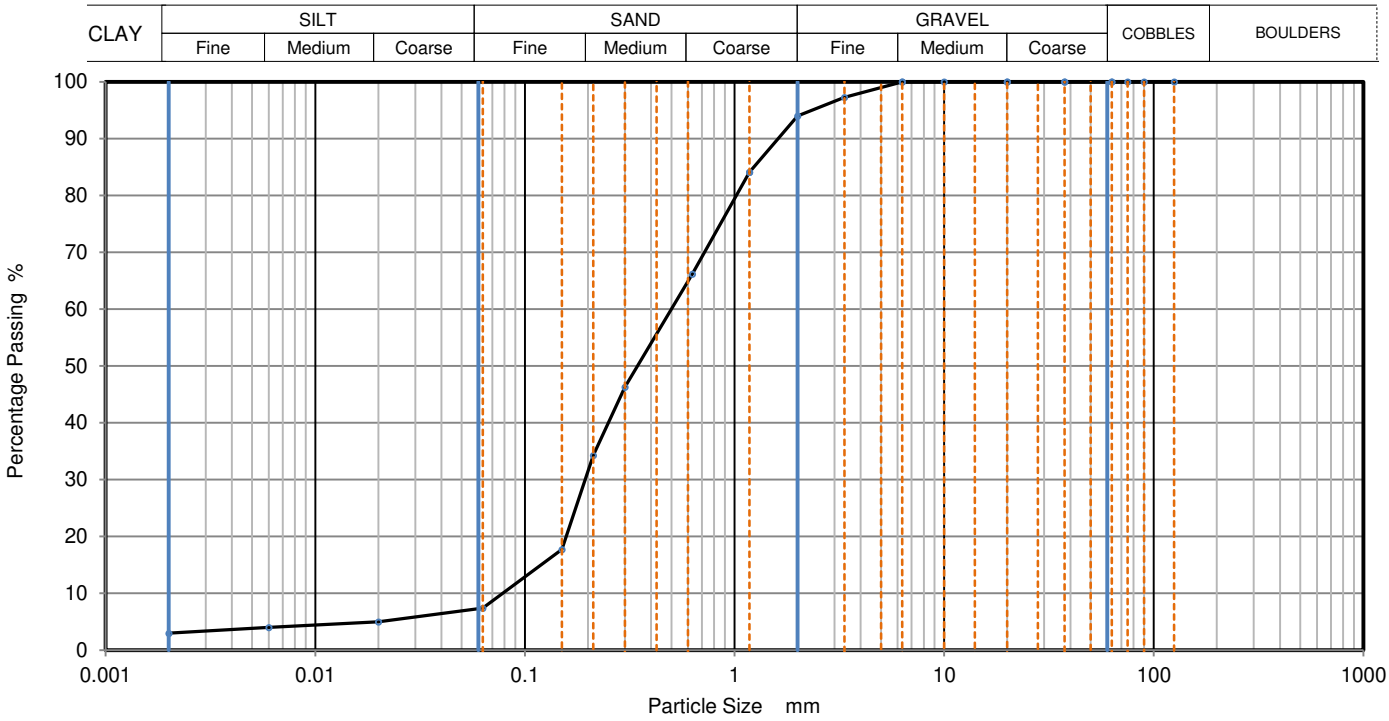
Grading Analysis		
D100	mm	2
D60	mm	0.257
D30	mm	0.202
D10	mm	0.152
Uniformity Coefficient		1.7
Curvature Coefficient		1

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	10
Description	Brown gravelly clayey SAND			Depth, m	22.85
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-8X00CA-DT3I



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	5
90	100	0.0060	4
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	97		
2	94		
1.18	84		
		Particle density (assumed)	
0.63	66	2.70 Mg/m3	
0.3	46		
0.212	34		
0.15	18		
0.063	7		

Dry Mass of sample, g	1003

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	6.0
Sand	86.6
Silt	4.4
Clay	3.0

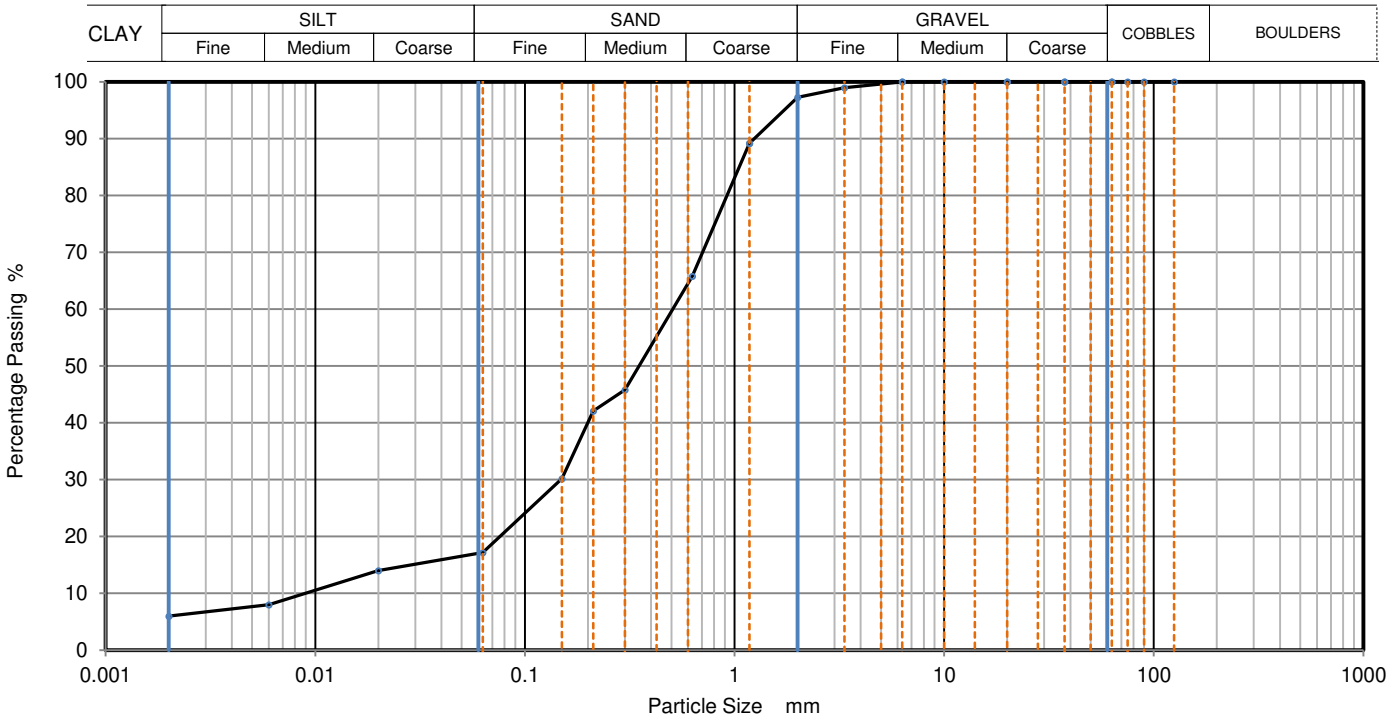
Grading Analysis		
D100	mm	6.3
D60	mm	0.5
D30	mm	0.194
D10	mm	0.0784
Uniformity Coefficient		6.4
Curvature Coefficient		0.96

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	14
Description	Brown slightly gravelly clayey SAND			Depth, m	29.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-3Z00CA-8KHL



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	14
90	100	0.0060	8
75	100	0.0020	6
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	99		
2	97		
1.18	89		
		Particle density	(assumed)
0.63	66	2.70	Mg/m3
0.3	46		
0.212	42		
0.15	30		
0.063	17		

Dry Mass of sample, g	1529

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	2.7
Sand	80.1
Silt	10.9
Clay	6.3

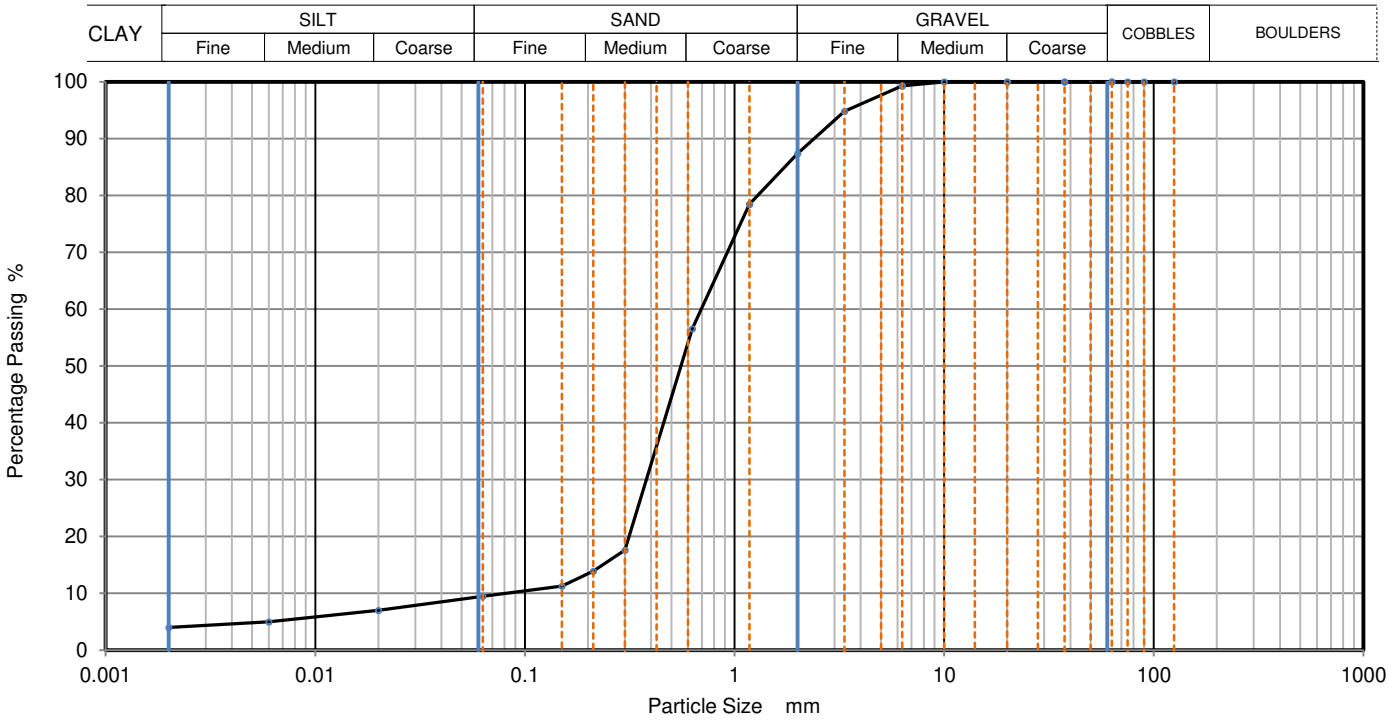
Grading Analysis		
D100	mm	6.3
D60	mm	0.508
D30	mm	0.148
D10	mm	0.00847
Uniformity Coefficient		60
Curvature Coefficient		5.1

Remarks

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Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Green brown clayey gravelly SAND. Some shell fragments			Depth, m	34.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-GZ00CA-GV19



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	7
90	100	0.0060	5
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	95		
2	87		
1.18	79		
		Particle density (assumed)	
0.63	57	2.70	Mg/m3
0.3	18		
0.212	14		
0.15	11		
0.063	10		

Dry Mass of sample, g	1240

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	12.6
Sand	77.9
Silt	5.5
Clay	4.0

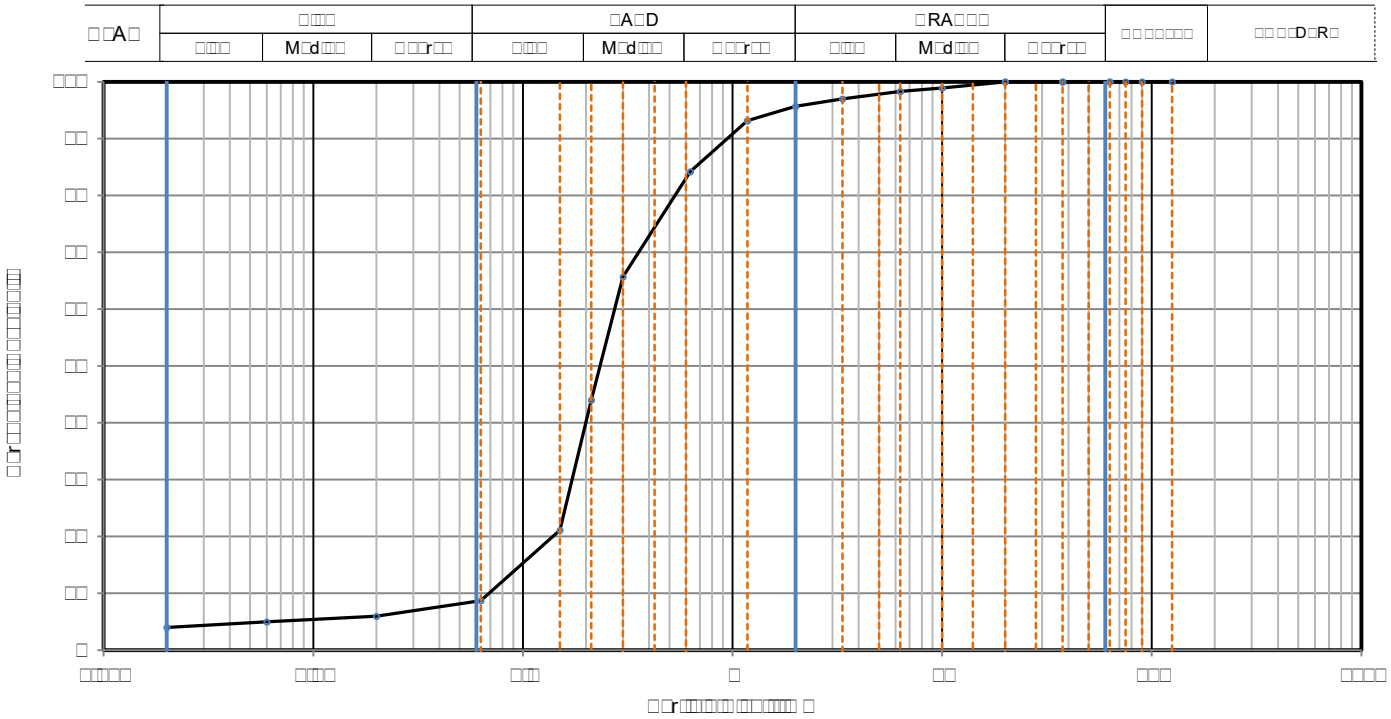
Grading Analysis		
D100	mm	10
D60	mm	0.695
D30	mm	0.38
D10	mm	0.0804
Uniformity Coefficient		8.6
Curvature Coefficient		2.6

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

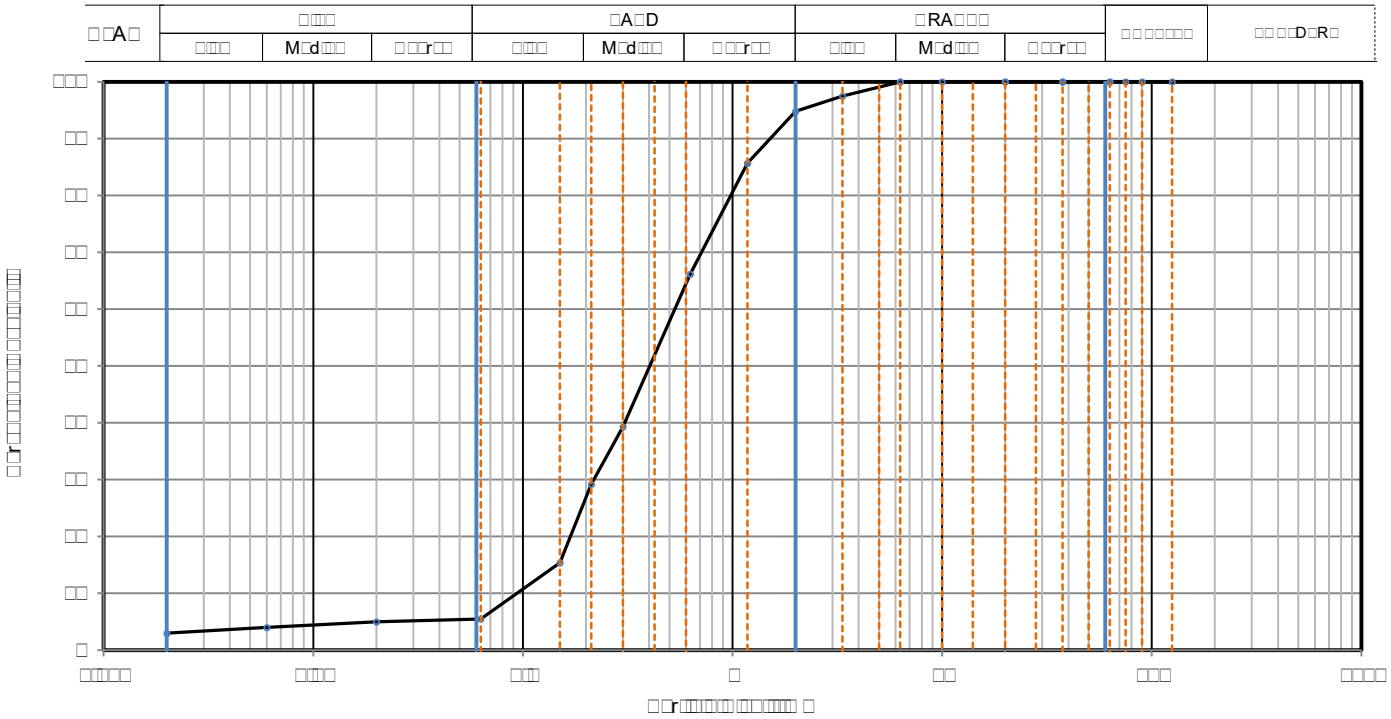
Date printed	Figure number	
16/01/2020		

Particle Size Distribution



Sieving		Sedimentation	

FUGRO	**Particle Size Distribution**		

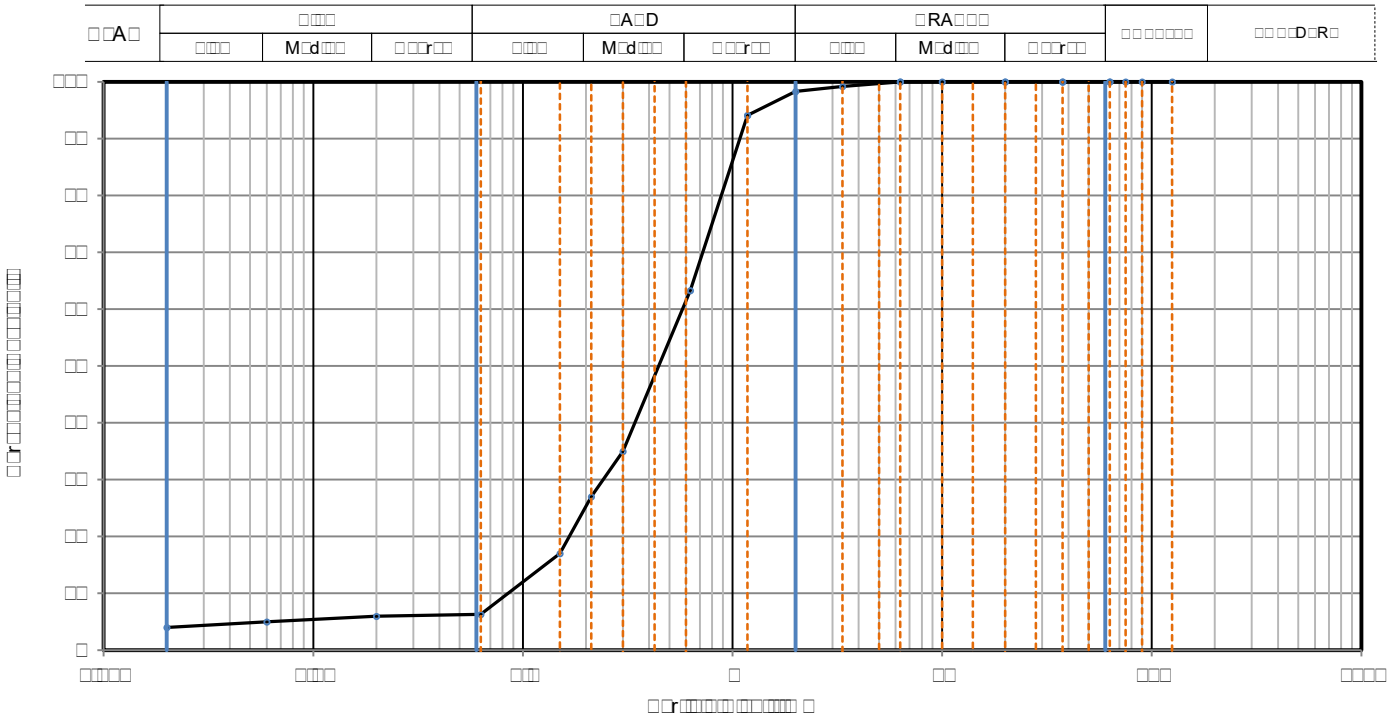


Sieving		Sedimentation	

Sample Proportions	

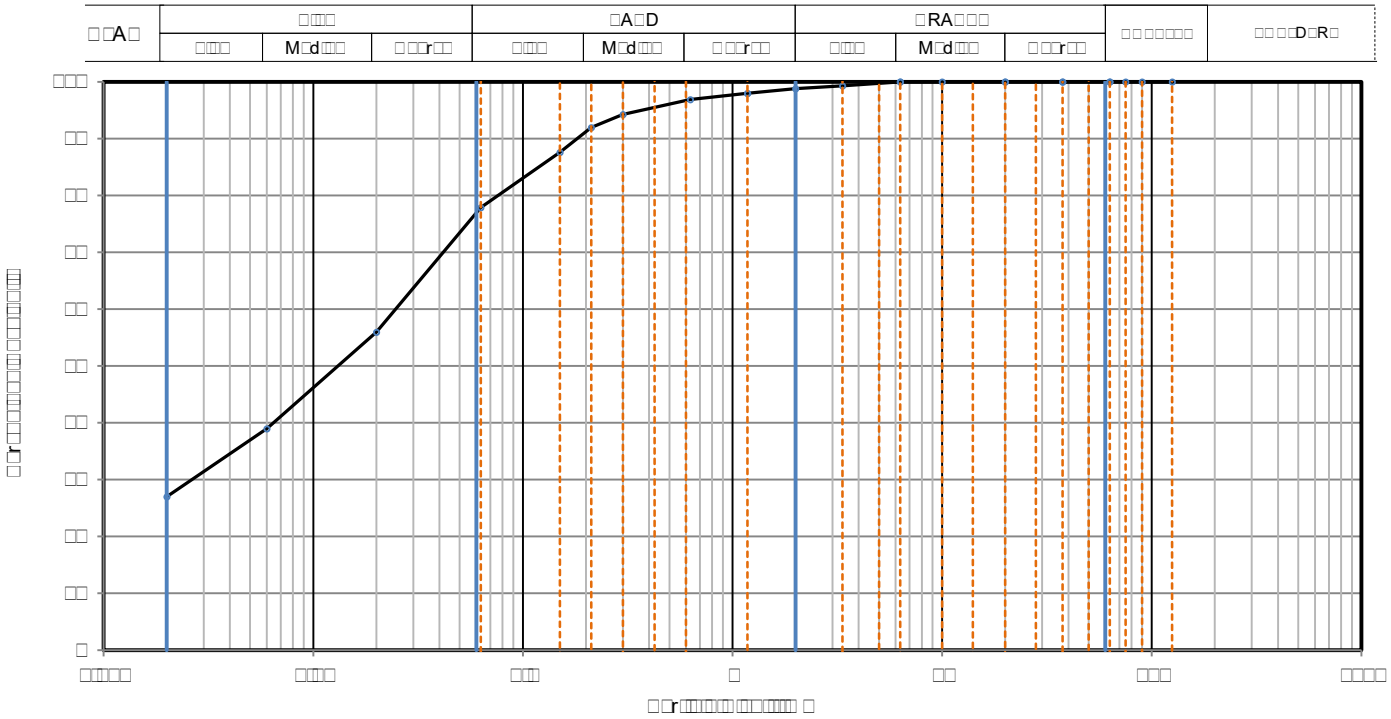
Grading Analysis		

Particle Size Distribution



Sieving		Sedimentation	

FUGRO	**Particle Size Distribution**		

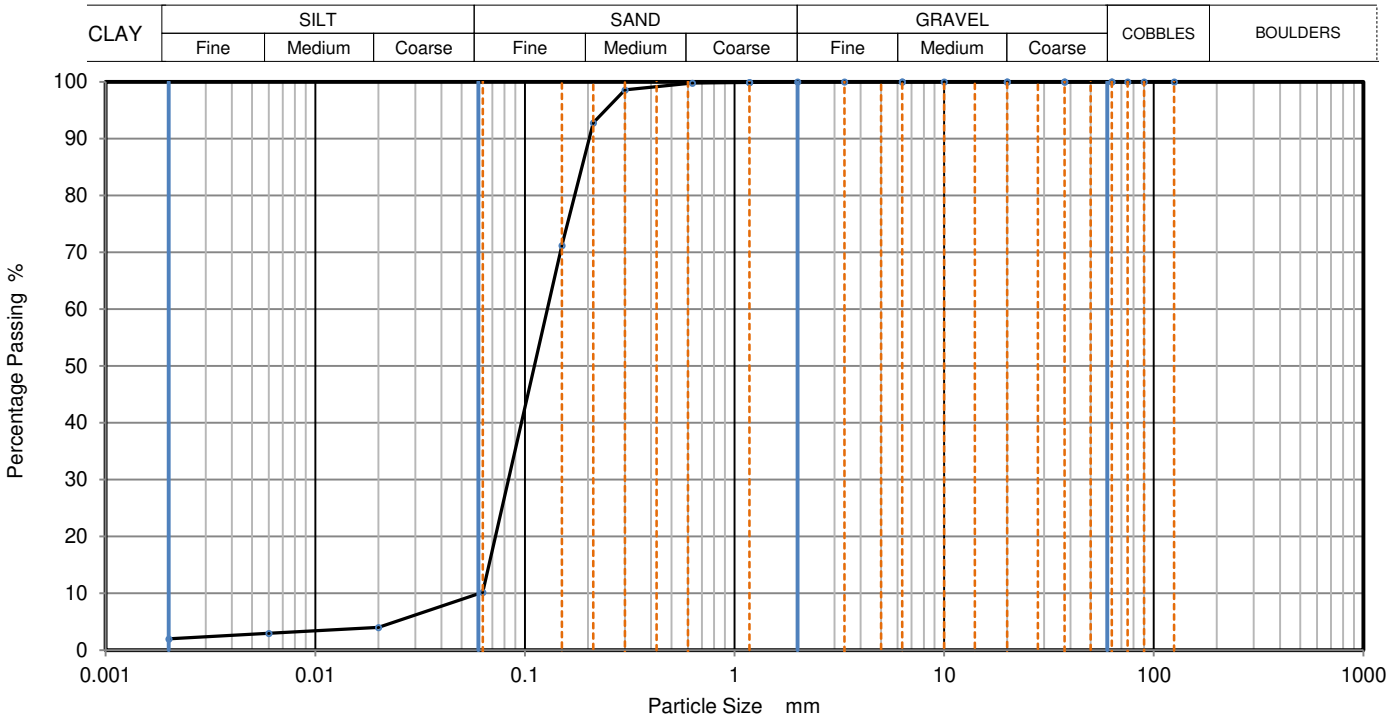


Sieving		Sedimentation	

Sample Proportions	

Grading Analysis		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	2
Description	Brown silty SAND			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-88178A-WXGH



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	4
90	100	0.0060	3
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density (assumed)	
0.63	100	2.70 Mg/m3	
0.3	99		
0.212	93		
0.15	71		
0.063	10		

Dry Mass of sample, g	1255

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	89.7
Silt	8.0
Clay	2.3

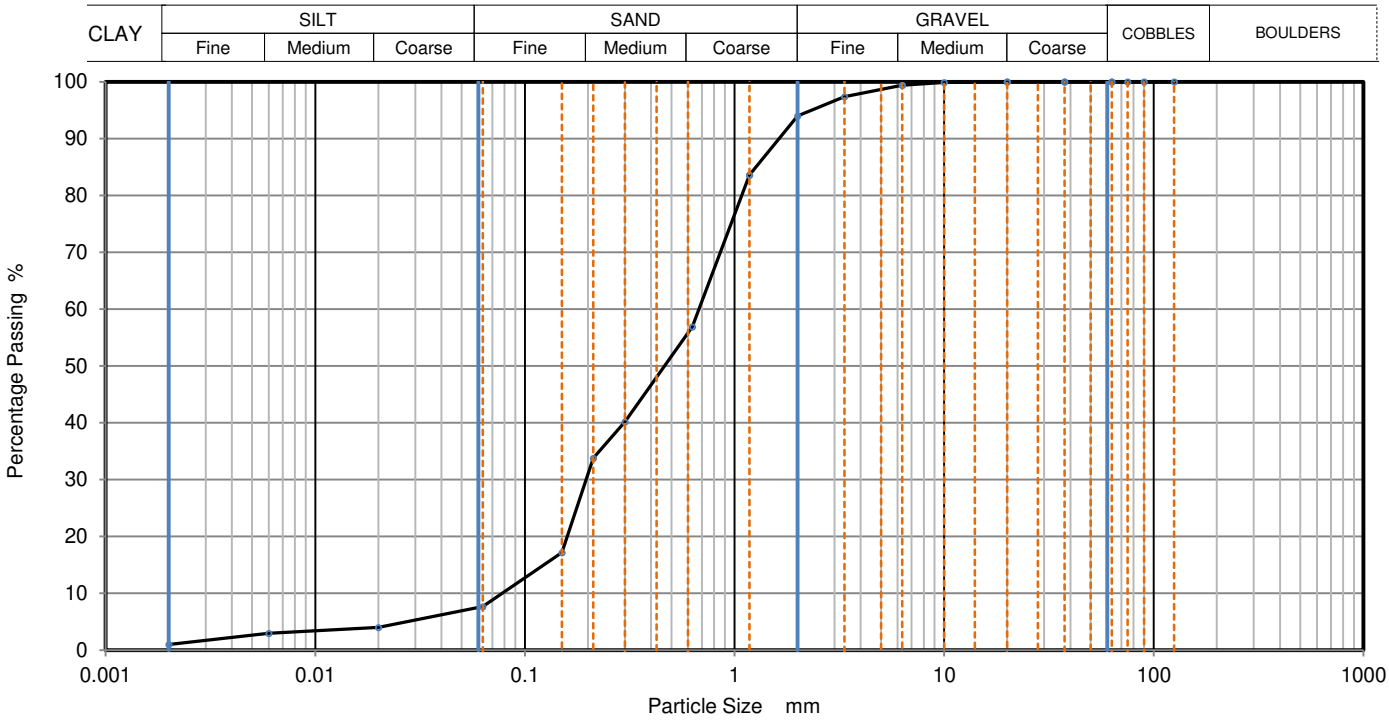
Grading Analysis		
D100	mm	3.35
D60	mm	0.128
D30	mm	0.0835
D10	mm	0.0604
Uniformity Coefficient		2.1
Curvature Coefficient		0.9

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	3
Description	Brown silty SAND. Some shell fragments			Depth, m	12.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-P8178A-XX5B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	4
90	100	0.0060	3
75	100	0.0020	1
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	97		
2	94		
1.18	84		
		Particle density	(assumed)
0.63	57	2.70	Mg/m3
0.3	40		
0.212	34		
0.15	17		
0.063	8		

Dry Mass of sample, g	1681

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	6.0
Sand	86.3
Silt	6.5
Clay	1.2

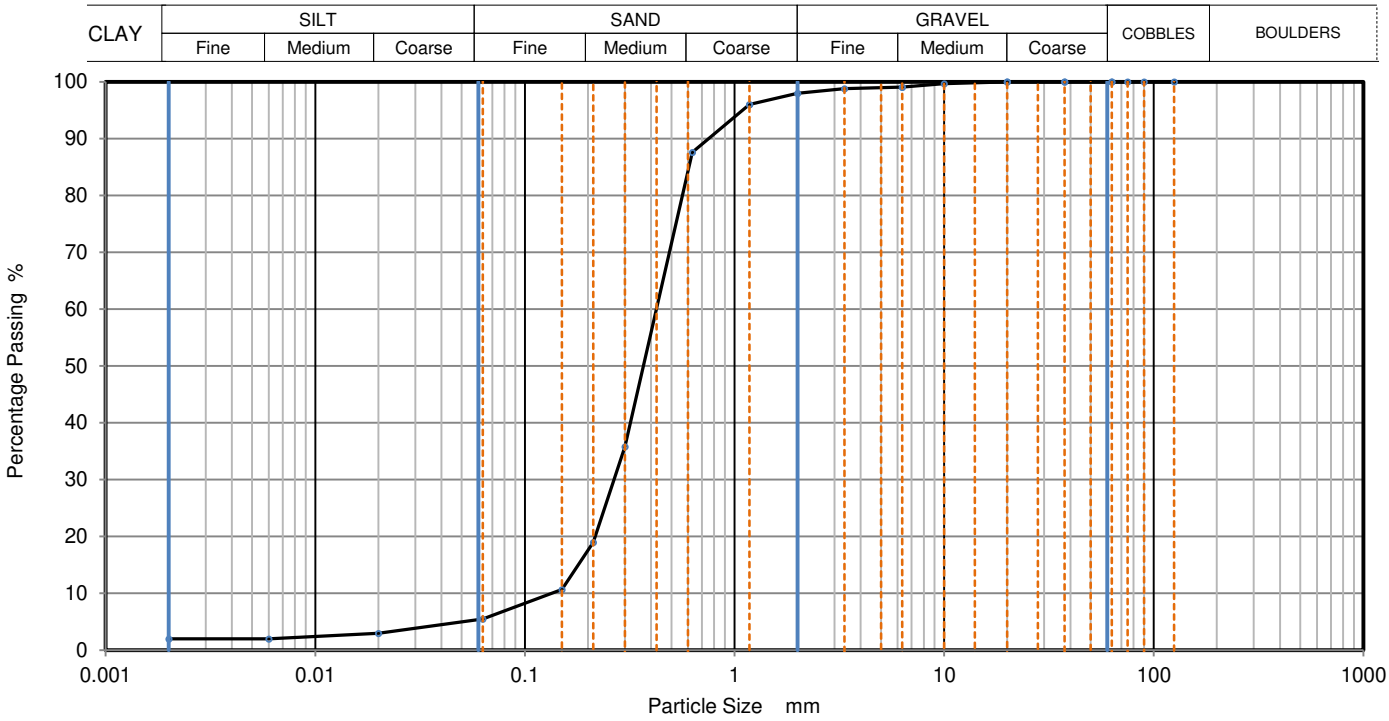
Grading Analysis		
D100	mm	20
D60	mm	0.678
D30	mm	0.196
D10	mm	0.0776
Uniformity Coefficient		8.7
Curvature Coefficient		0.73

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	6
Description	Brown slightly gravelly clayey SAND			Depth, m	18.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-D2YB8A-QVES



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	2
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	99		
2	98		
1.18	96		
		Particle density	(assumed)
0.63	88	2.70	Mg/m3
0.3	36		
0.212	19		
0.15	11		
0.063	6		

Dry Mass of sample, g	1400

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	2.0
Sand	92.5
Silt	3.9
Clay	1.6

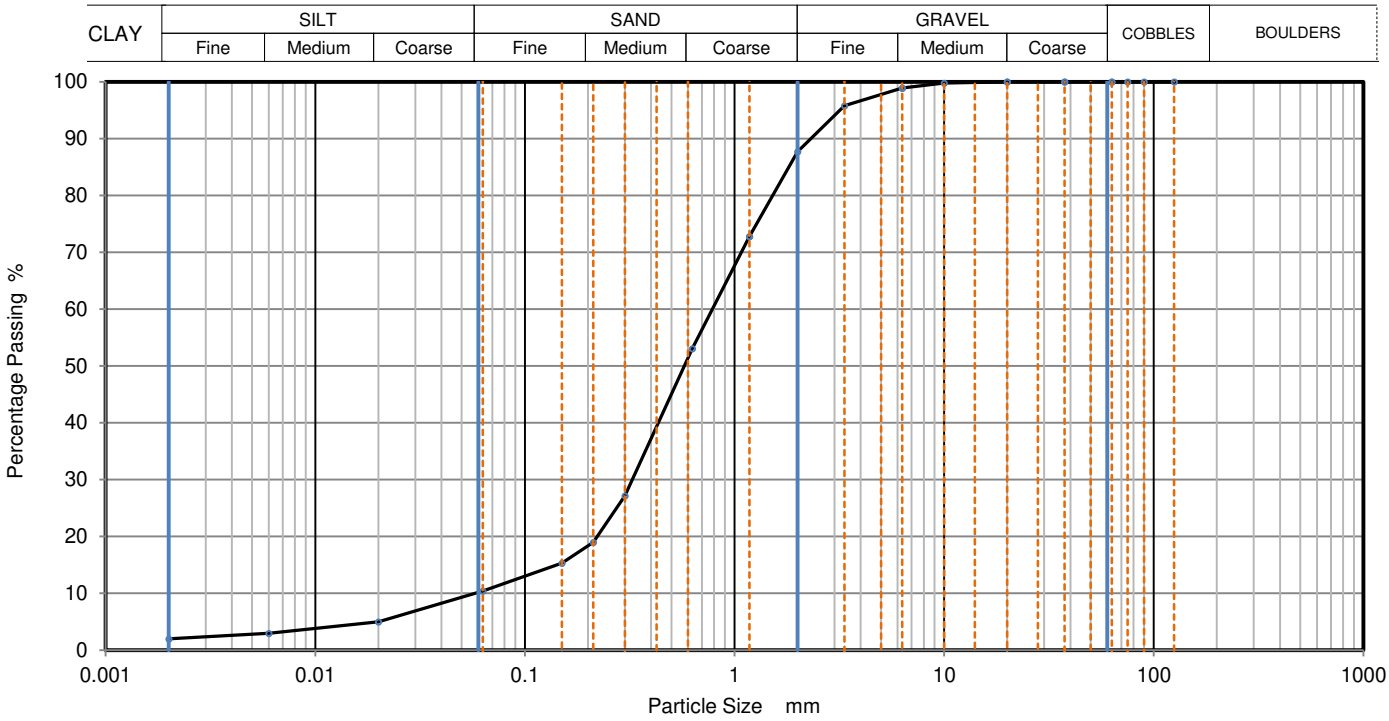
Grading Analysis		
D100	mm	20
D60	mm	0.424
D30	mm	0.266
D10	mm	0.134
Uniformity Coefficient		3.2
Curvature Coefficient		1.2

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	7
Description	Brown silty gravelly SAND. Occasional shell fragments			Depth, m	20.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-23YB8A-3YSB



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	5
90	100	0.0060	3
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	96		
2	88		
1.18	73		
		Particle density	(assumed)
0.63	53	2.70	Mg/m3
0.3	27		
0.212	19		
0.15	15		
0.063	10		

Dry Mass of sample, g	1308

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	12.3
Sand	77.3
Silt	8.5
Clay	1.9

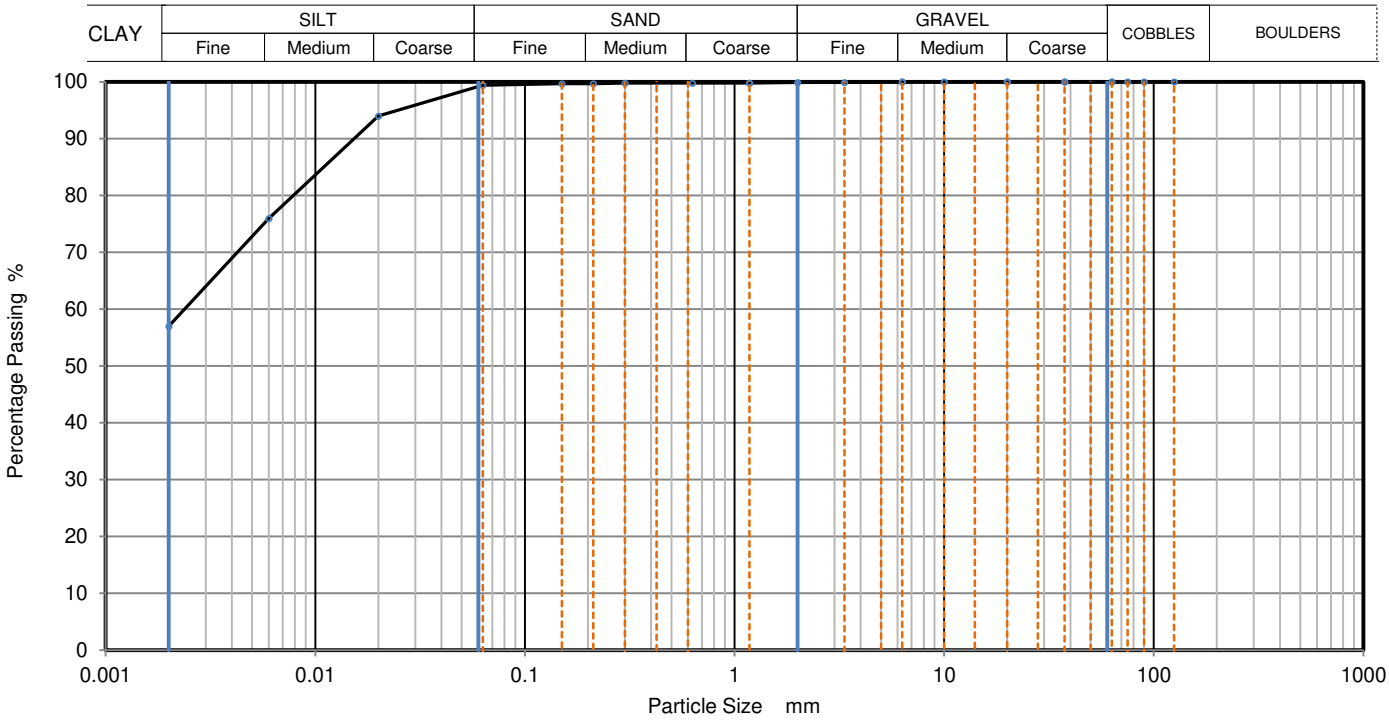
Grading Analysis		
D100	mm	20
D60	mm	0.784
D30	mm	0.325
D10	mm	0.0572
Uniformity Coefficient		14
Curvature Coefficient		2.4

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	1
Description	Brown slightly gravelly slightly sandy CLAY			Depth, m	45.00
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-07178A-KEVR



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	94
90	100	0.0060	76
75	100	0.0020	57
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density (assumed)	
0.63	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	100		
0.063	99		

Dry Mass of sample, g	525

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.1
Sand	0.5
Silt	42.8
Clay	56.6

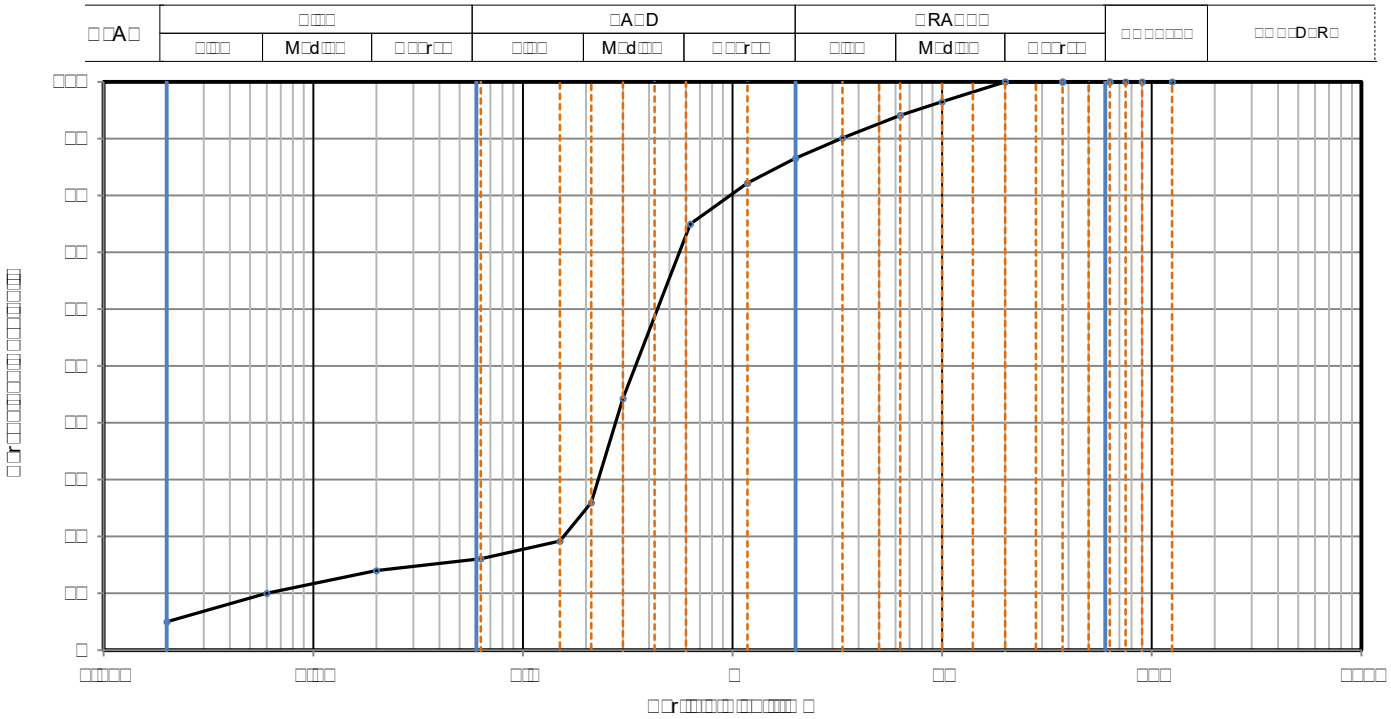
Grading Analysis		
D100	mm	6.3
D60	mm	0.00242
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

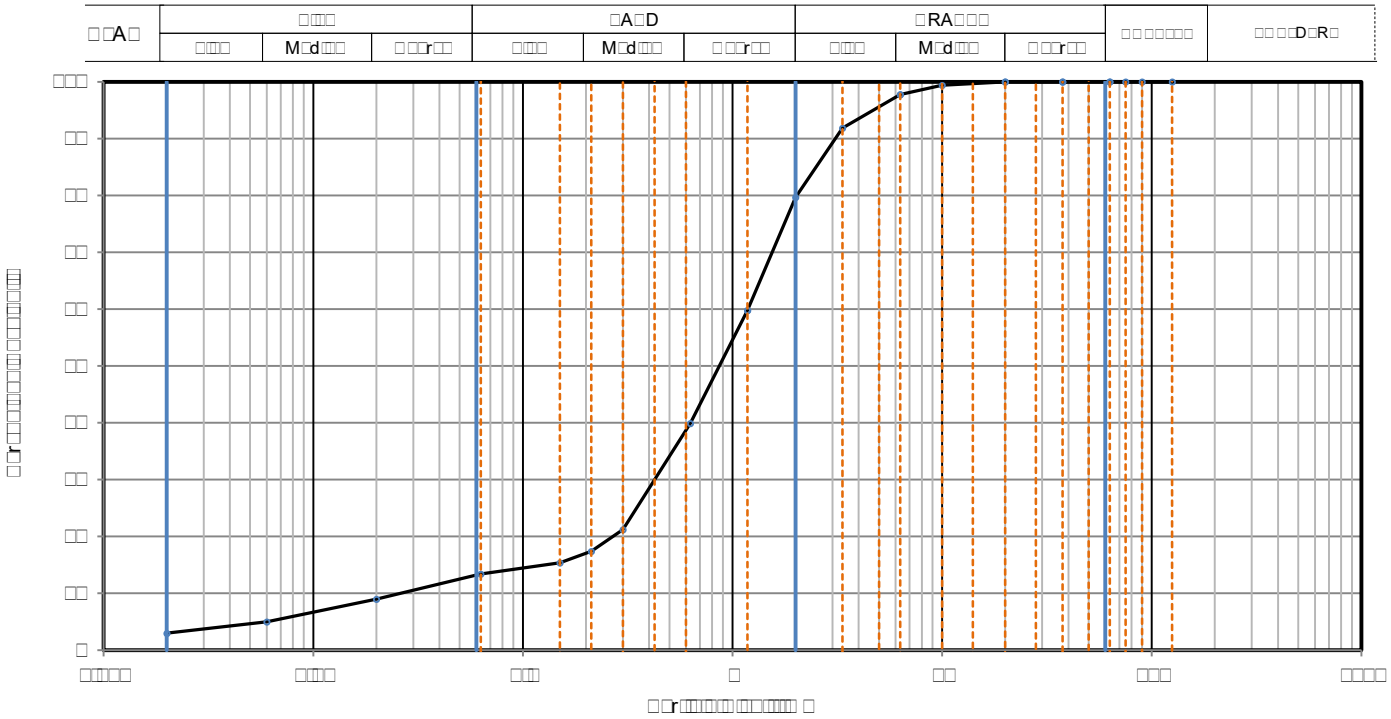
Date printed	Figure number	
16/01/2020		

Particle Size Distribution



Sieving		Sedimentation	

	Particle Size Distribution		



Sieving	

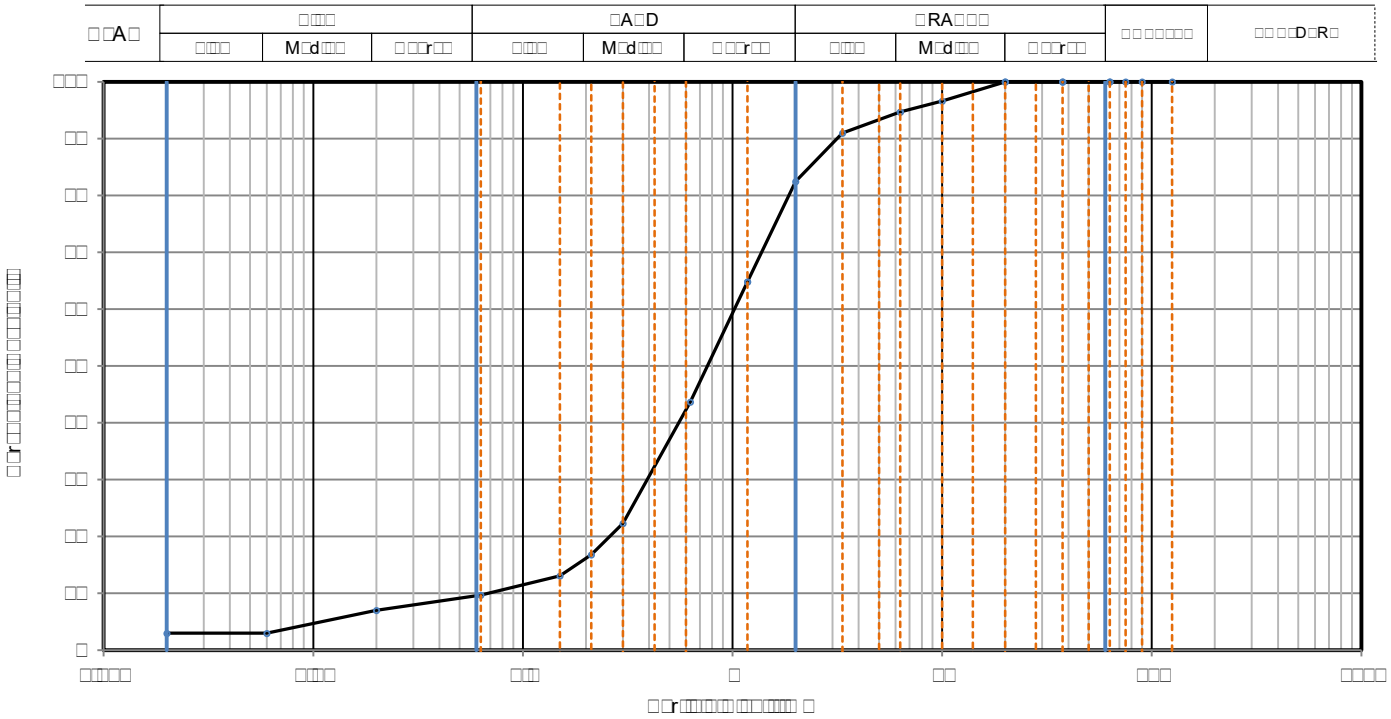
Sedimentation	

Sample Proportions	

Grading Analysis		

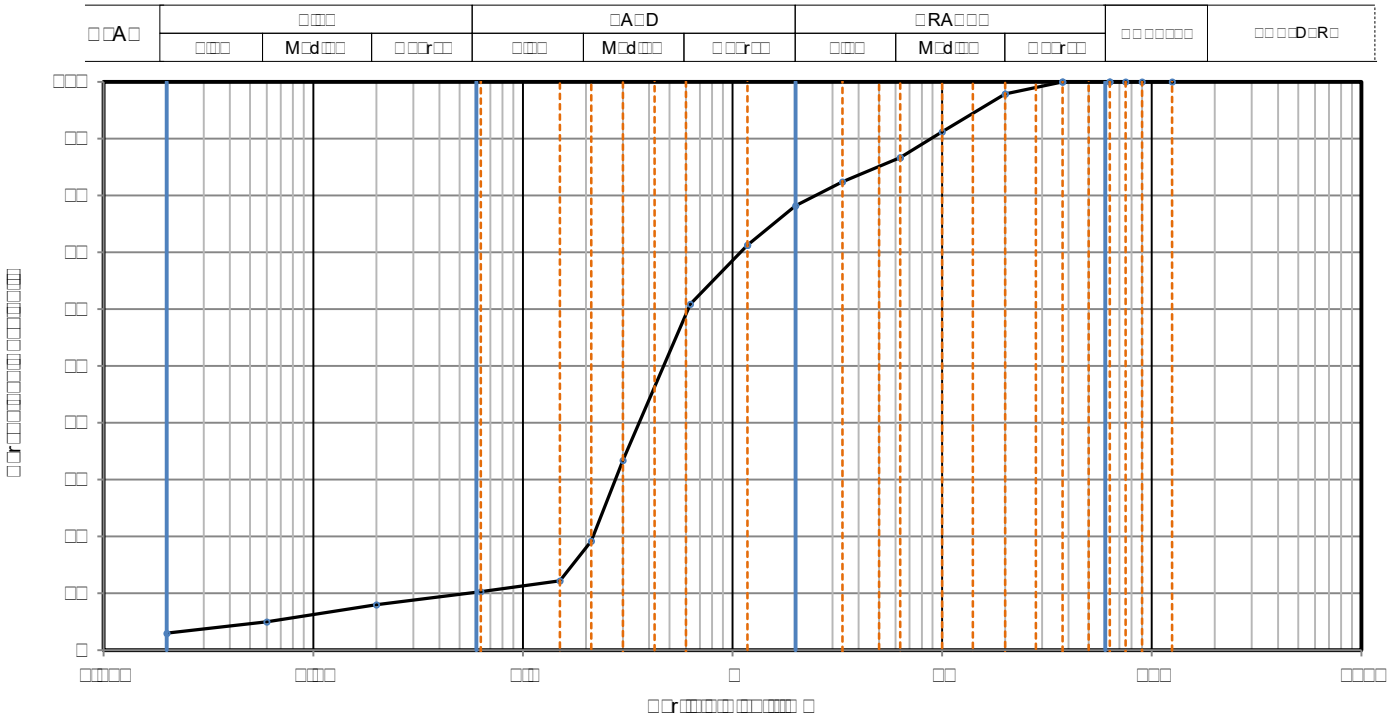
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Particle Size Distribution



Sieving		Sedimentation	

FUGRO	**Particle Size Distribution**		

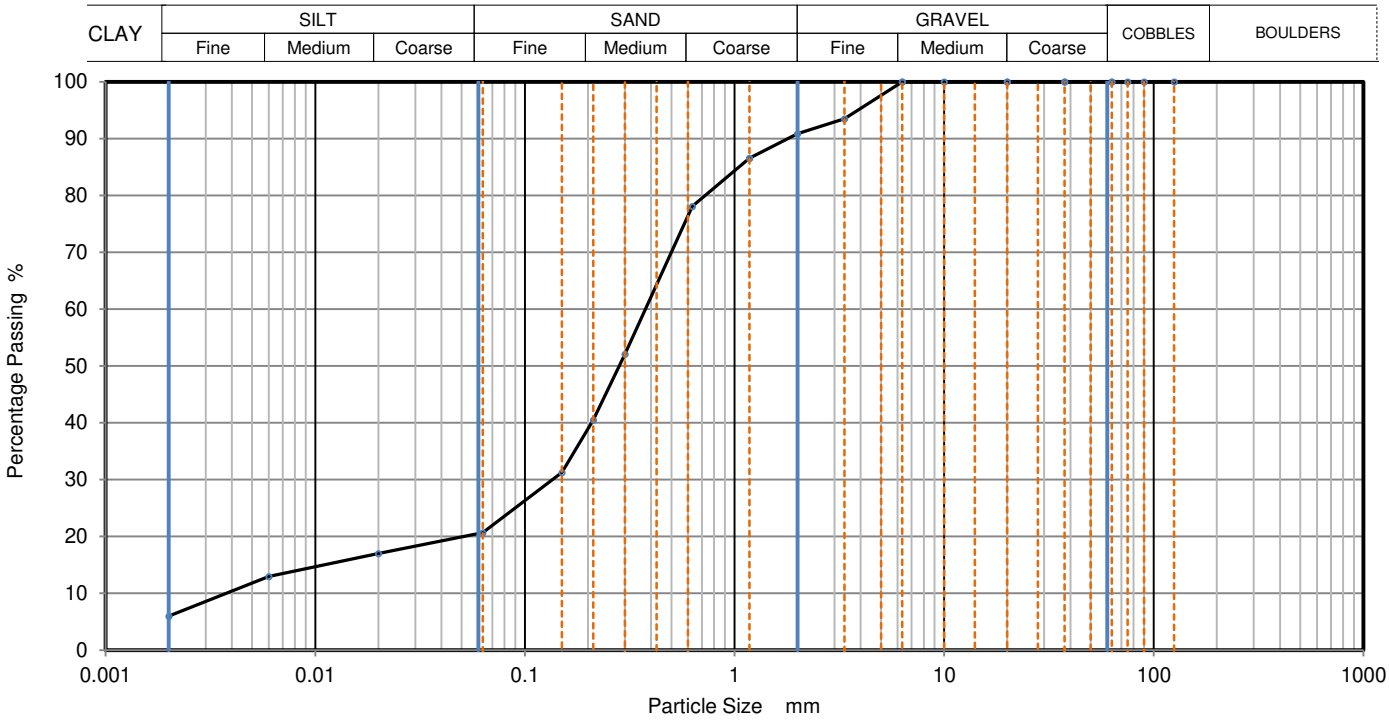


Sieving		Sedimentation	

Sample Proportions	

Grading Analysis		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_05
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	12
Description	Orange gravelly very clayey SAND			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-TIUDBA-FRG6



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	17
90	100	0.0060	13
75	100	0.0020	6
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	94		
2	91		
1.18	87		
		Particle density	(assumed)
0.63	78	2.70	Mg/m3
0.3	52		
0.212	41		
0.15	31		
0.063	21		

Dry Mass of sample, g	783

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	9.1
Sand	70.2
Silt	14.8
Clay	5.9

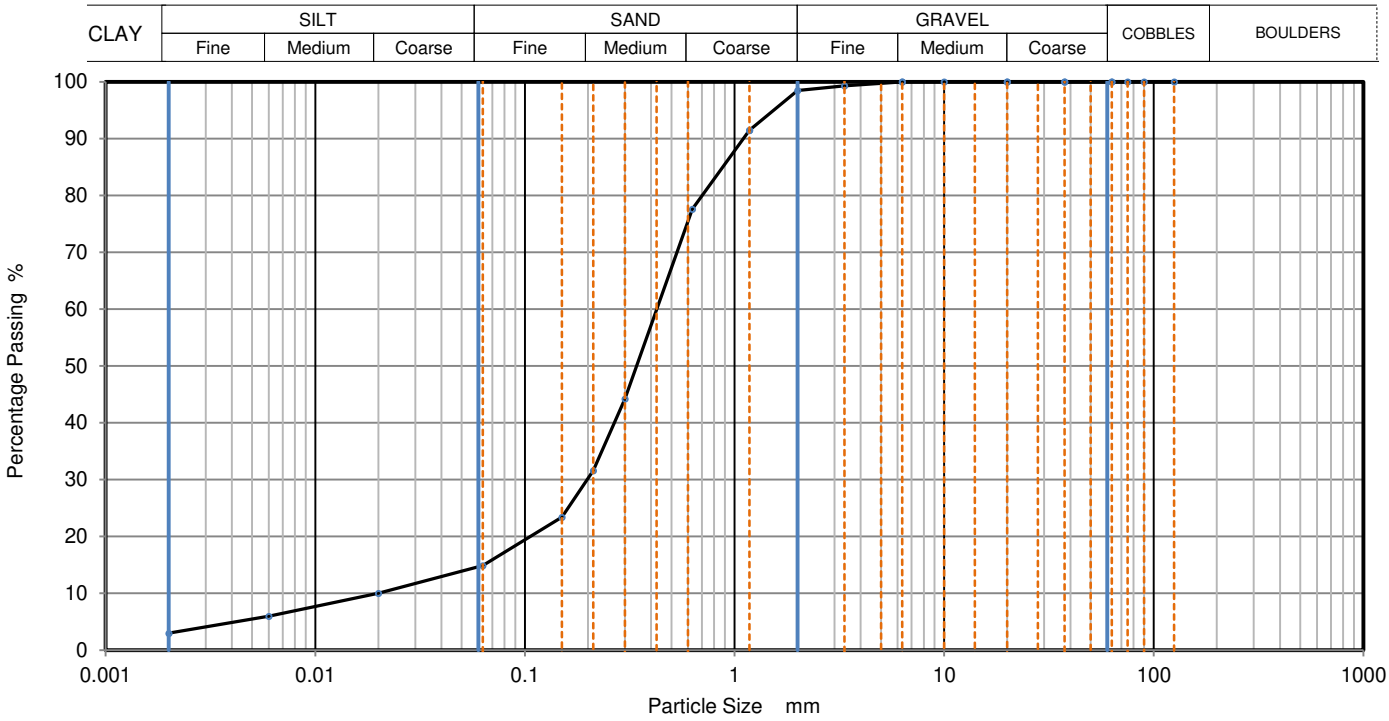
Grading Analysis		
D100	mm	6.3
D60	mm	0.376
D30	mm	0.135
D10	mm	0.00394
Uniformity Coefficient		95
Curvature Coefficient		12

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
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FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_05
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	13
Description	Brown slightly gravelly silty SAND			Depth, m	11.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-XIUDBA-QS5B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	10
90	100	0.0060	6
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	99		
2	99		
1.18	92		
		Particle density	(assumed)
0.63	78	2.70	Mg/m3
0.3	44		
0.212	32		
0.15	23		
0.063	15		

Dry Mass of sample, g	864

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	1.5
Sand	83.6
Silt	12.1
Clay	2.8

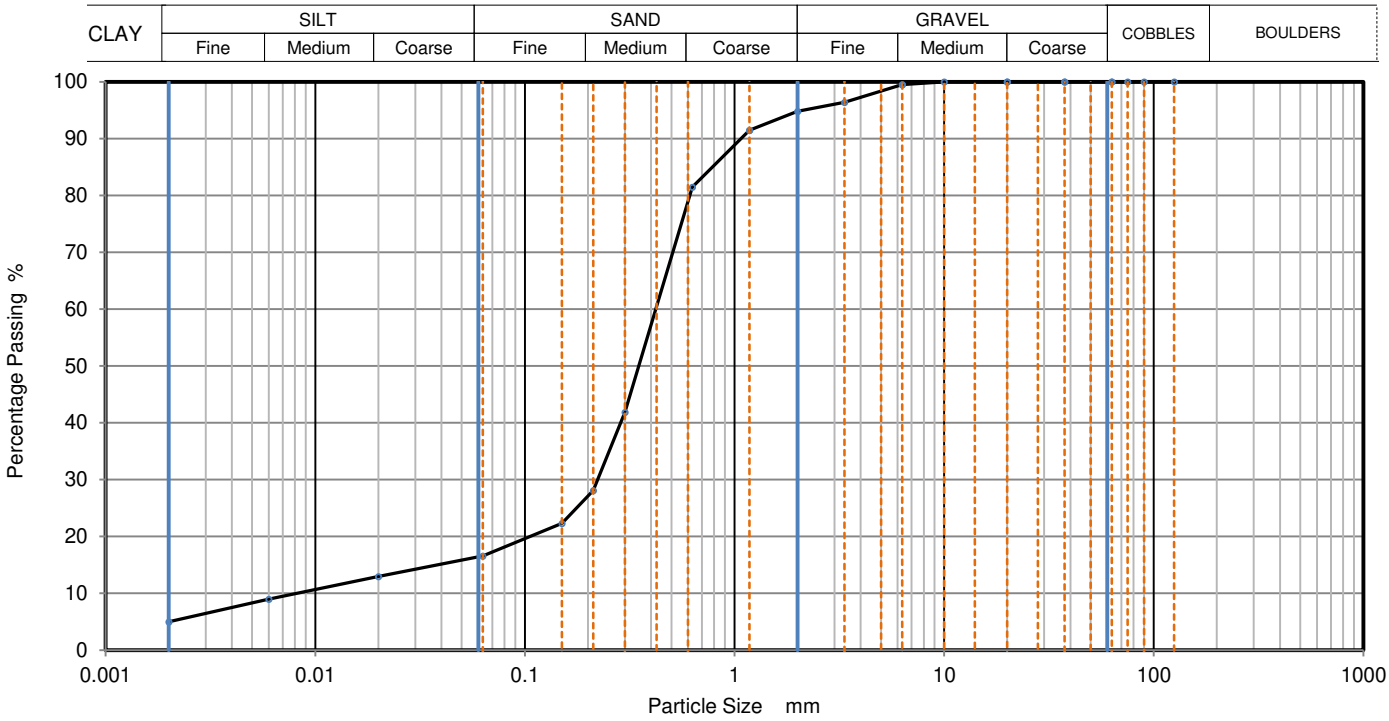
Grading Analysis		
D100	mm	6.3
D60	mm	0.426
D30	mm	0.198
D10	mm	0.0185
Uniformity Coefficient		23
Curvature Coefficient		5

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_05
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	14
Description	Grey gravelly clayey SAND			Depth, m	18.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-0JUDBA-2M0Y



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	13
90	100	0.0060	9
75	100	0.0020	5
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	96		
2	95		
1.18	92		
		Particle density (assumed)	
0.63	82	2.70	Mg/m3
0.3	42		
0.212	28		
0.15	22		
0.063	17		

Dry Mass of sample, g	960

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	5.2
Sand	78.2
Silt	11.9
Clay	4.7

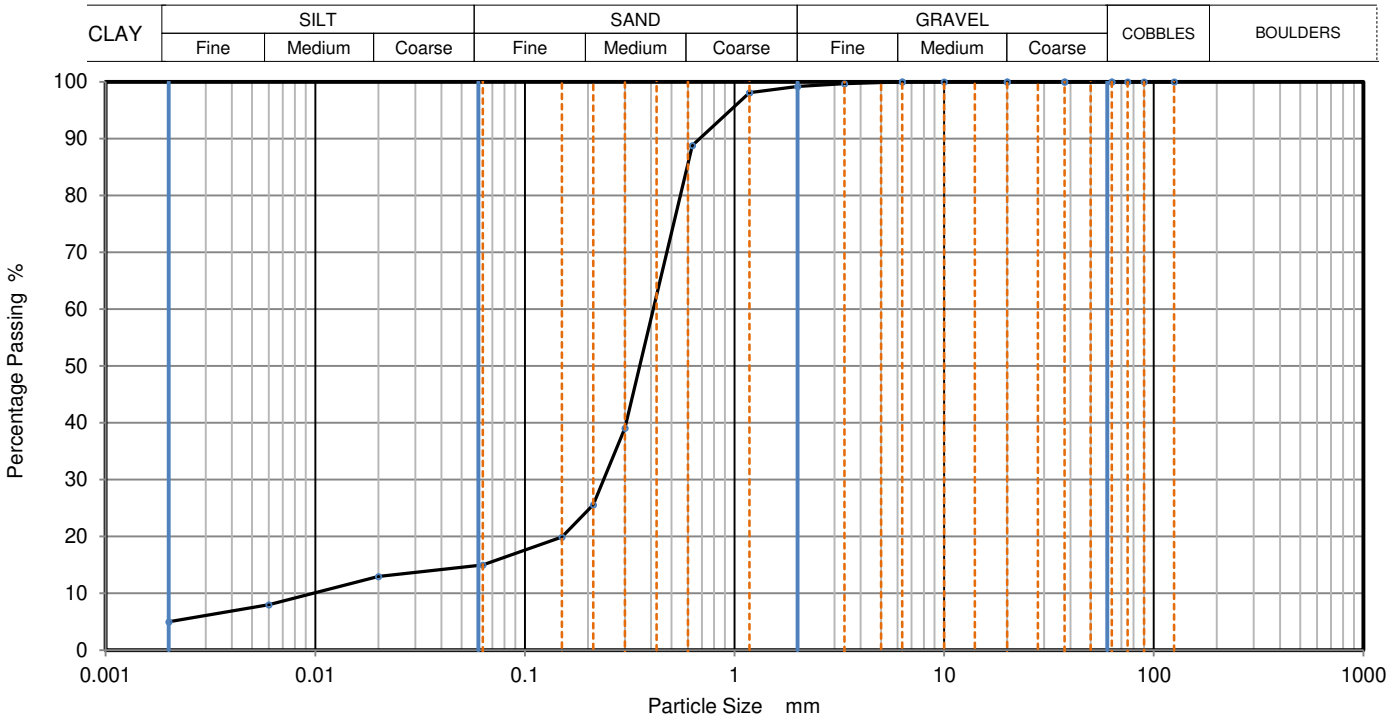
Grading Analysis		
D100	mm	10
D60	mm	0.421
D30	mm	0.222
D10	mm	0.00783
Uniformity Coefficient		54
Curvature Coefficient		15

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_05
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Grey slightly gravelly clayey SAND			Depth, m	21.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-AJUDBA-5T7P



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	13
90	100	0.0060	8
75	100	0.0020	5
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	99		
1.18	98		
		Particle density	(assumed)
0.63	89	2.70	Mg/m3
0.3	39		
0.212	26		
0.15	20		
0.063	15		

Dry Mass of sample, g	969

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.8
Sand	84.2
Silt	9.9
Clay	5.1

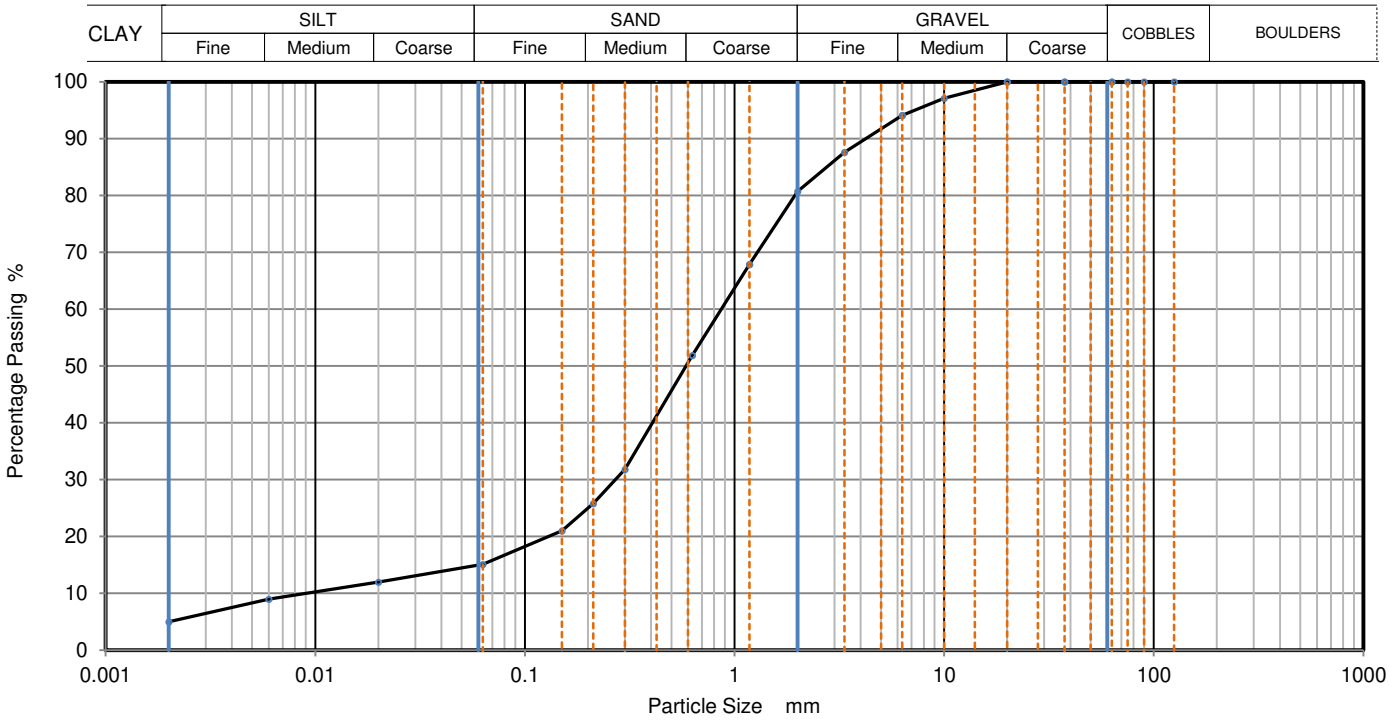
Grading Analysis		
D100	mm	6.3
D60	mm	0.41
D30	mm	0.237
D10	mm	0.00935
Uniformity Coefficient		44
Curvature Coefficient		15

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	17
Description	Orange silty gravelly SAND			Depth, m	7.65
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-BJZJ8A-UTE4



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	12
90	100	0.0060	9
75	100	0.0020	5
63	100		
37.5	100		
20	100		
10	97		
6.3	94		
3.35	88		
2	81		
1.18	68		
		Particle density	(assumed)
0.63	52	2.70	Mg/m3
0.3	32		
0.212	26		
0.15	21		
0.063	15		

Dry Mass of sample, g	2388

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	19.3
Sand	65.7
Silt	9.9
Clay	5.1

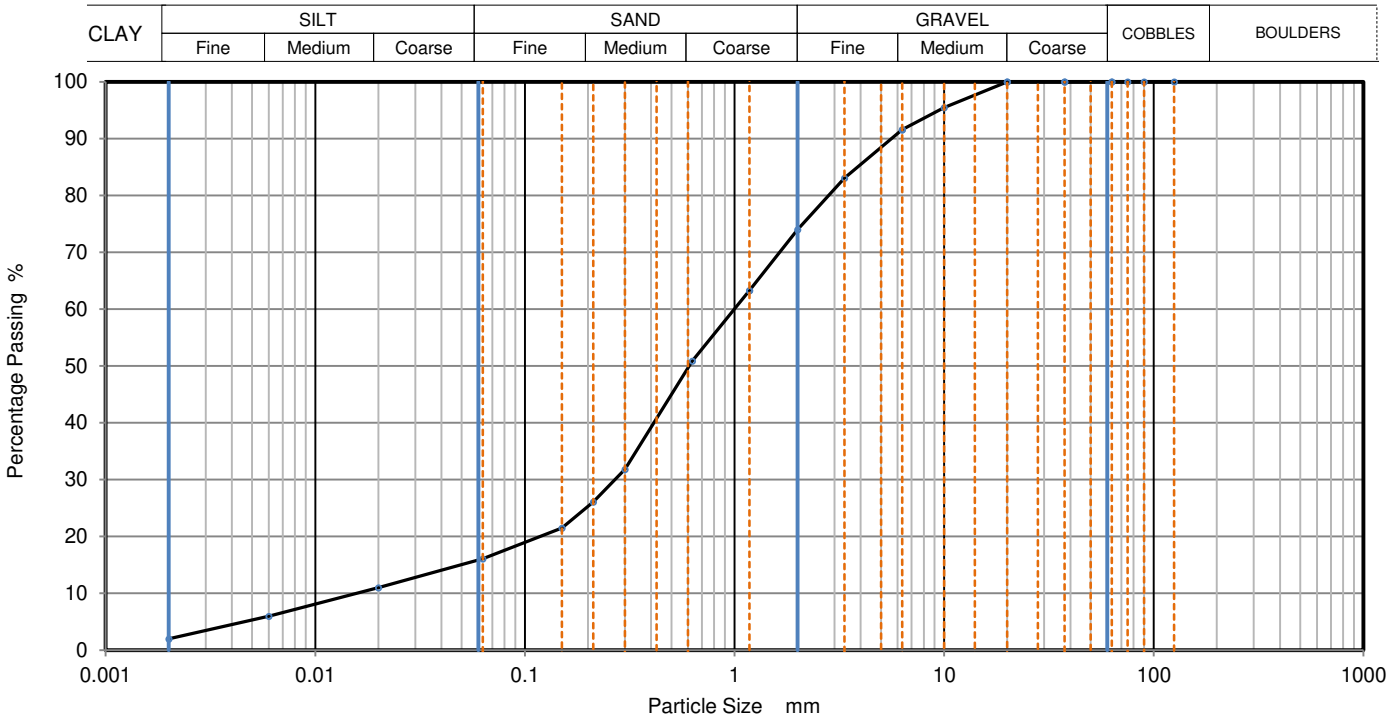
Grading Analysis		
D100	mm	20
D60	mm	0.866
D30	mm	0.271
D10	mm	0.00961
Uniformity Coefficient		90
Curvature Coefficient		8.8

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	19
Description	Grey silty very gravelly SAND			Depth, m	11.75
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-3KZJ8A-HFL6



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	11
90	100	0.0060	6
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	96		
6.3	92		
3.35	83		
2	74		
1.18	63		
		Particle density (assumed)	
0.63	51	2.70	Mg/m3
0.3	32		
0.212	26		
0.15	22		
0.063	16		

Dry Mass of sample, g	1570

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	26.0
Sand	57.9
Silt	14.0
Clay	2.1

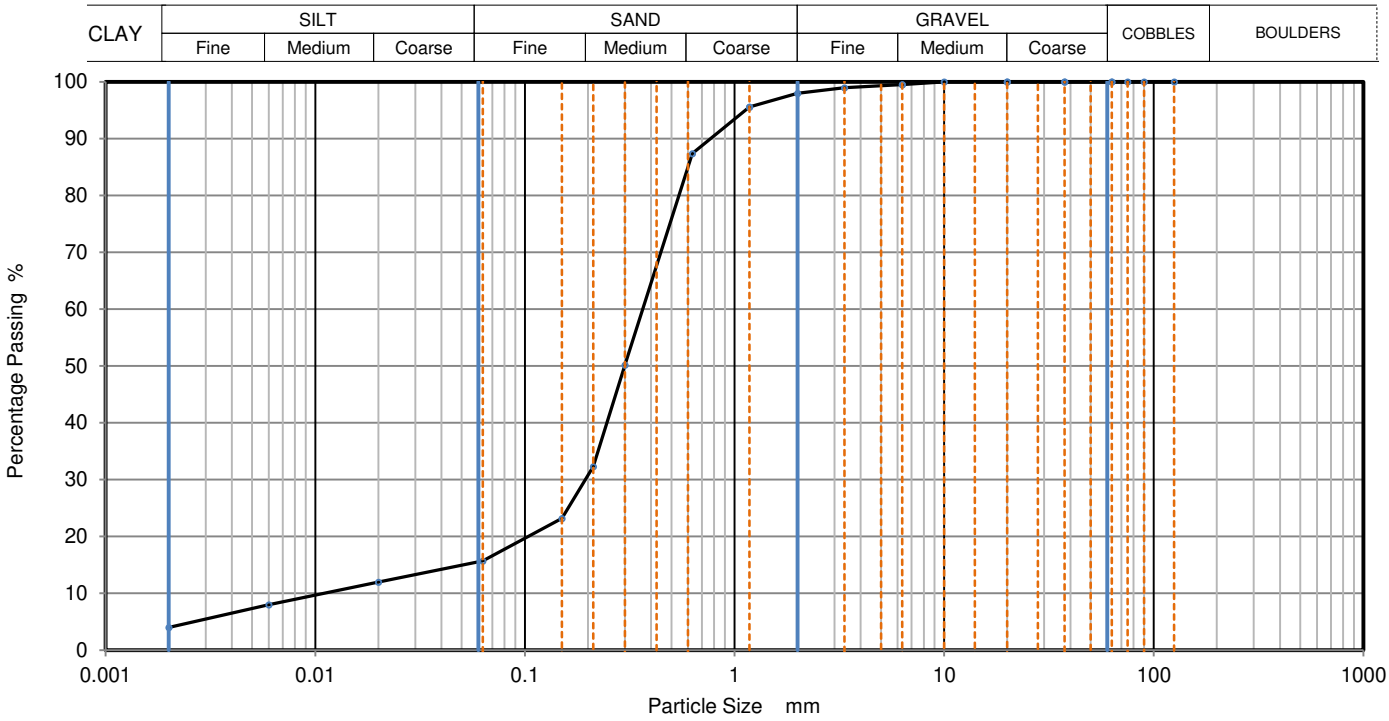
Grading Analysis		
D100	mm	20
D60	mm	0.997
D30	mm	0.268
D10	mm	0.0149
Uniformity Coefficient		67
Curvature Coefficient		4.9

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	23
Description	Grey clayey SAND. Occasional shell fragments			Depth, m	21.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-4NZJ8A-1MVH



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	12
90	100	0.0060	8
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	99		
2	98		
1.18	96		
		Particle density	(assumed)
0.63	87	2.70	Mg/m3
0.3	50		
0.212	32		
0.15	23		
0.063	16		

Dry Mass of sample, g	1243

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	2.0
Sand	82.3
Silt	11.4
Clay	4.3

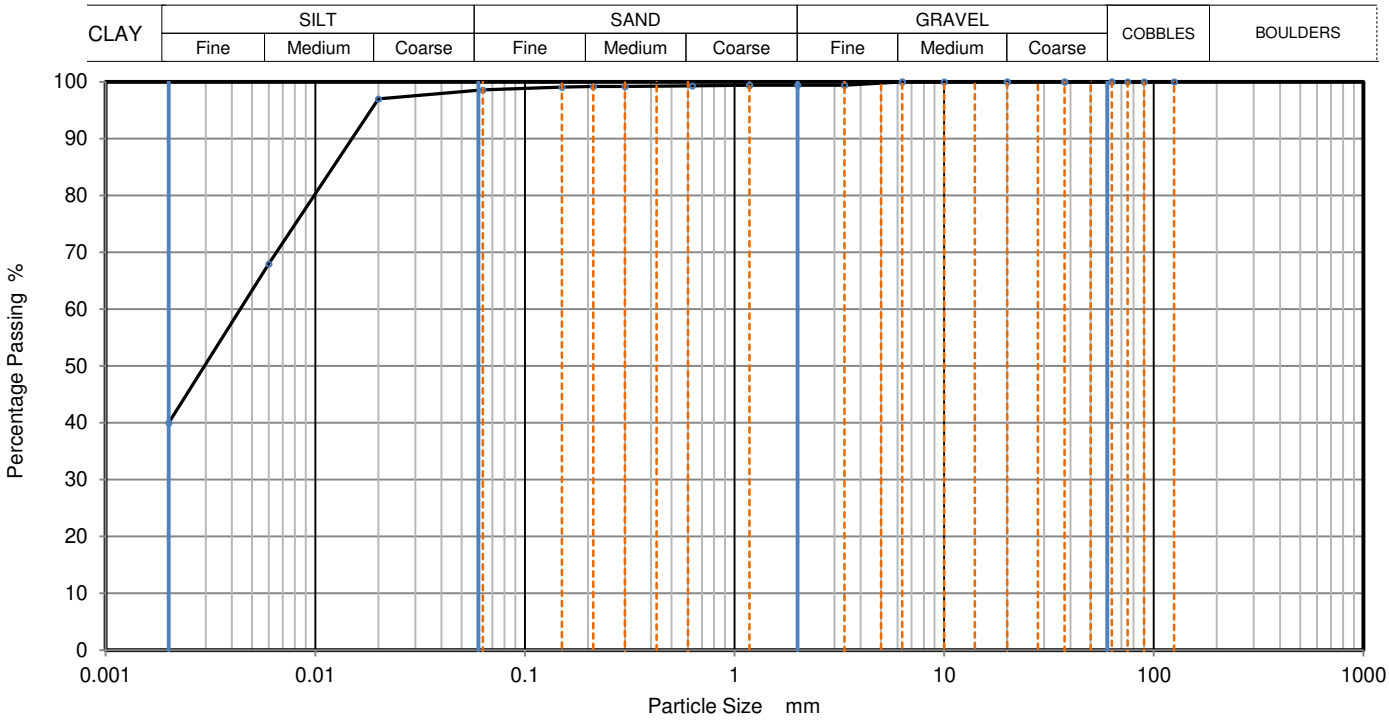
Grading Analysis		
D100	mm	10
D60	mm	0.365
D30	mm	0.194
D10	mm	0.0122
Uniformity Coefficient		30
Curvature Coefficient		8.4

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Brown slightly gravelly slightly sandy CLAY			Depth, m	29.67
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-AVTD8A-FXRH



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	97
90	100	0.0060	68
75	100	0.0020	40
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	99		
2	99		
1.18	99		
		Particle density (assumed)	
0.63	99	2.70 Mg/m3	
0.3	99		
0.212	99		
0.15	99		
0.063	99		

Dry Mass of sample, g	536

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.6
Sand	0.8
Silt	58.7
Clay	39.9

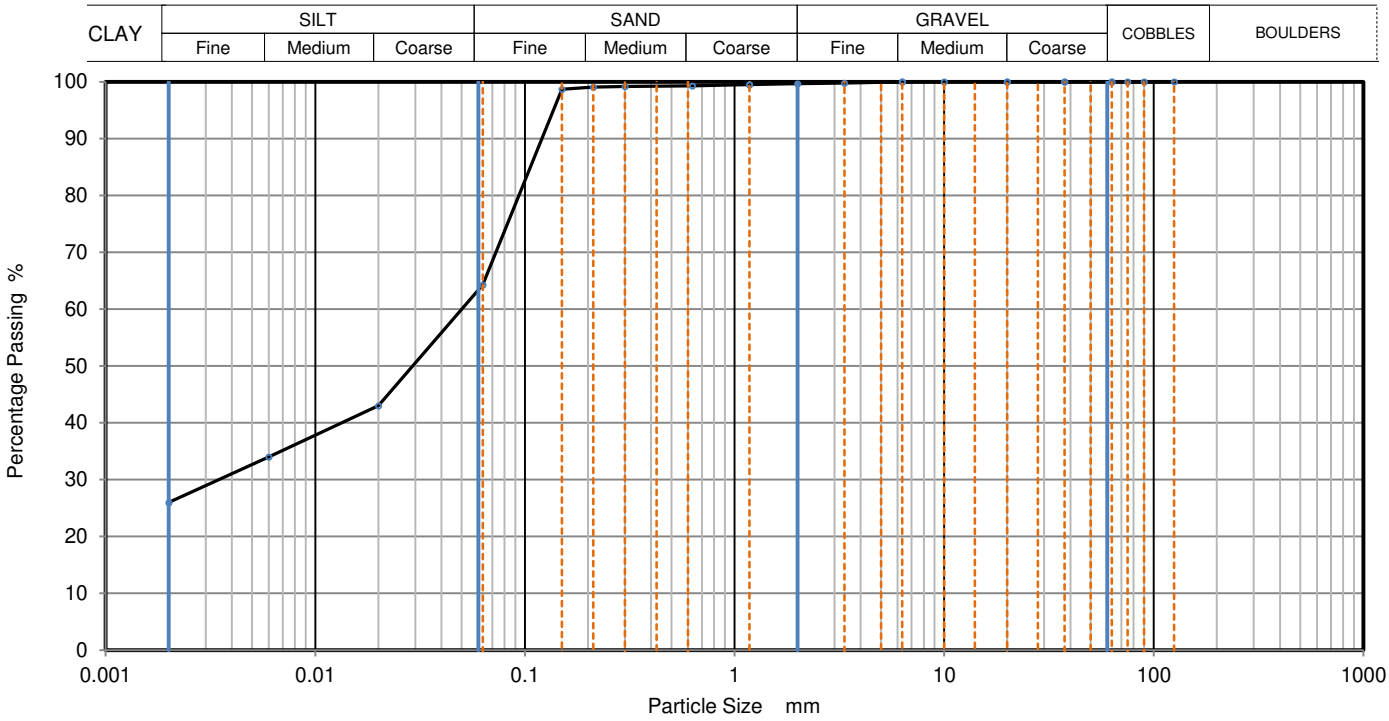
Grading Analysis		
D100	mm	6.3
D60	mm	0.00435
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	26
Description	Brown slightly gravelly sandy CLAY			Depth, m	50.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-MOZJ8A-4C01



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	43
90	100	0.0060	34
75	100	0.0020	26
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	99	2.70	Mg/m3
0.3	99		
0.212	99		
0.15	99		
0.063	64		

Dry Mass of sample, g	865

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.3
Sand	35.4
Silt	38.1
Clay	26.2

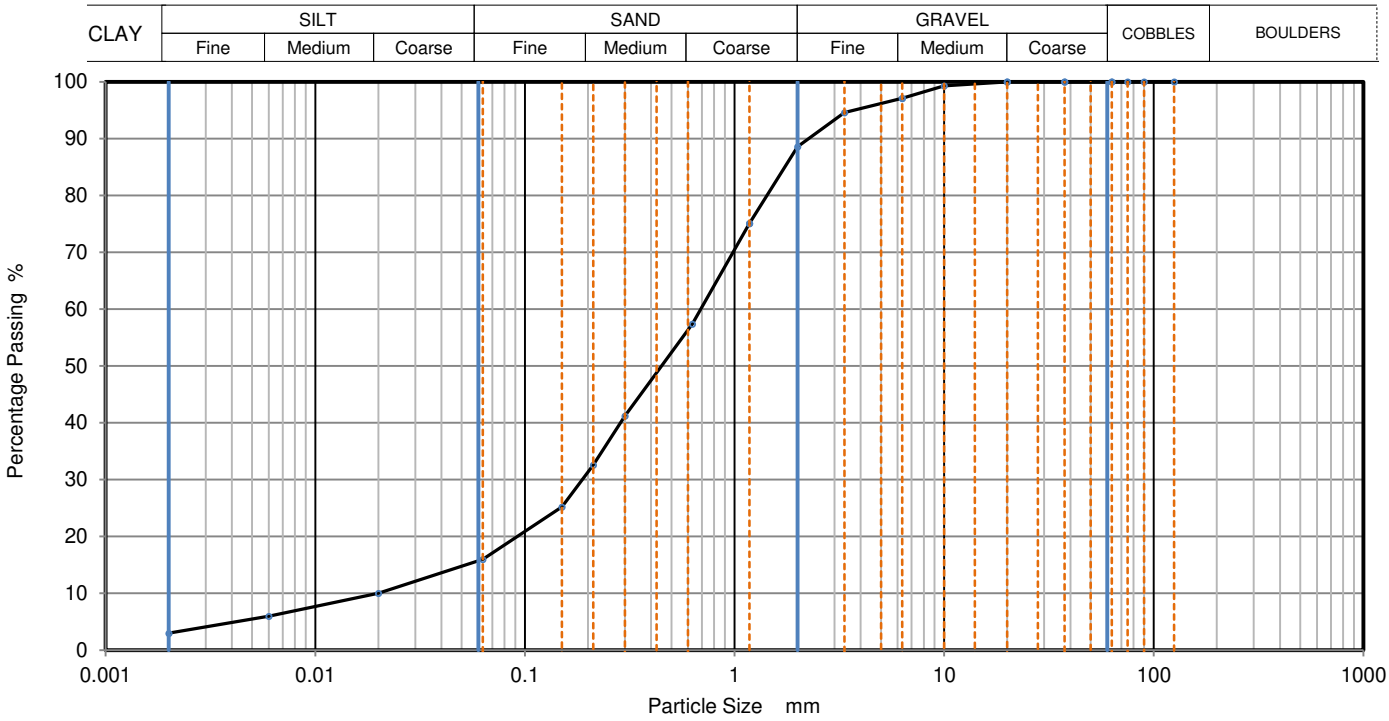
Grading Analysis		
D100	mm	6.3
D60	mm	0.0501
D30	mm	0.00332
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_07
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Brown gravelly silty SAND			Depth, m	3.70
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	IT1_SB_07_B15



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	10
90	100	0.0060	6
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	99		
6.3	97		
3.35	95		
2	89		
1.18	75		
		Particle density	(assumed)
0.63	57	2.70	Mg/m3
0.3	41		
0.212	33		
0.15	25		
0.063	16		

Dry Mass of sample, g	1173

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	11.4
Sand	72.6
Silt	13.3
Clay	2.7

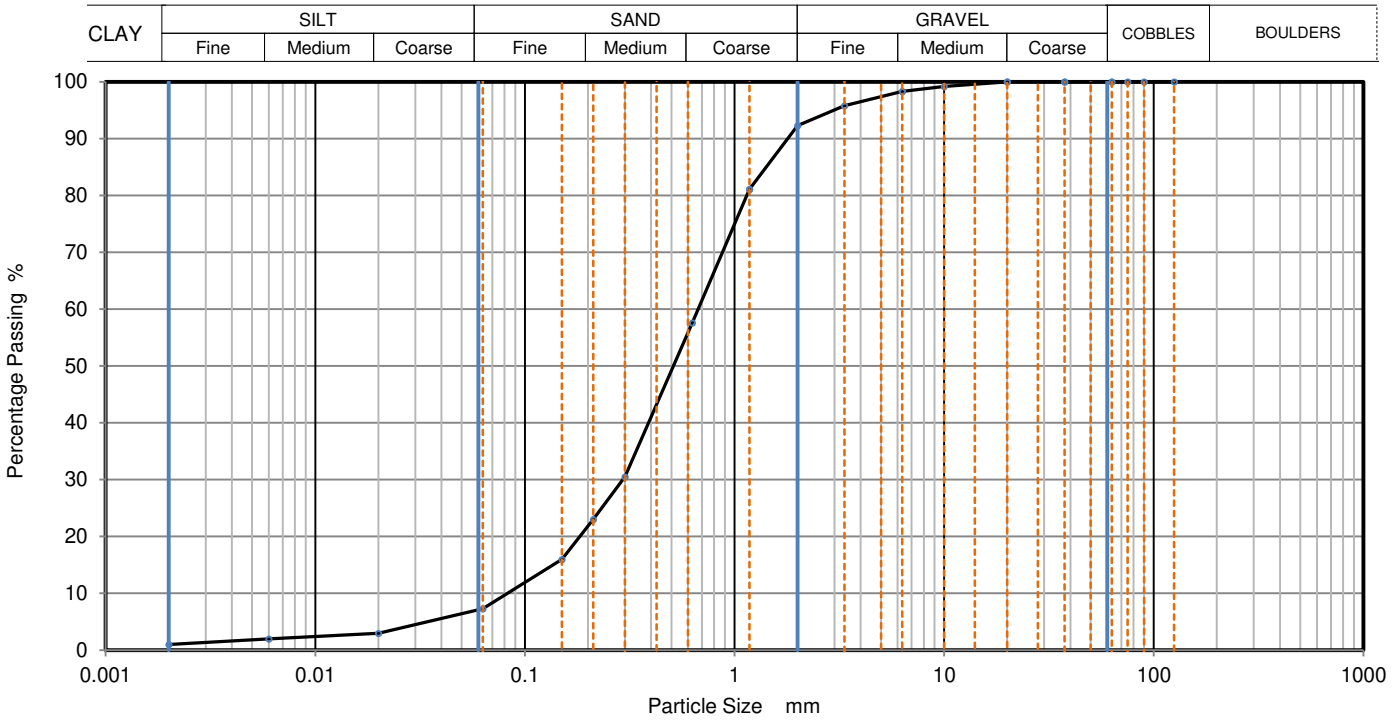
Grading Analysis		
D100	mm	20
D60	mm	0.69
D30	mm	0.188
D10	mm	0.0196
Uniformity Coefficient		35
Curvature Coefficient		2.6

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_07
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	18
Description	Brown silty gravelly SAND			Depth, m	12.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	IT1_SB_07_B18



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	2
75	100	0.0020	1
63	100		
37.5	100		
20	100		
10	99		
6.3	98		
3.35	96		
2	92		
1.18	81		
		Particle density	(assumed)
0.63	58	2.70	Mg/m3
0.3	31		
0.212	23		
0.15	16		
0.063	7		

Dry Mass of sample, g	1498

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	7.7
Sand	85.1
Silt	6.4
Clay	0.8

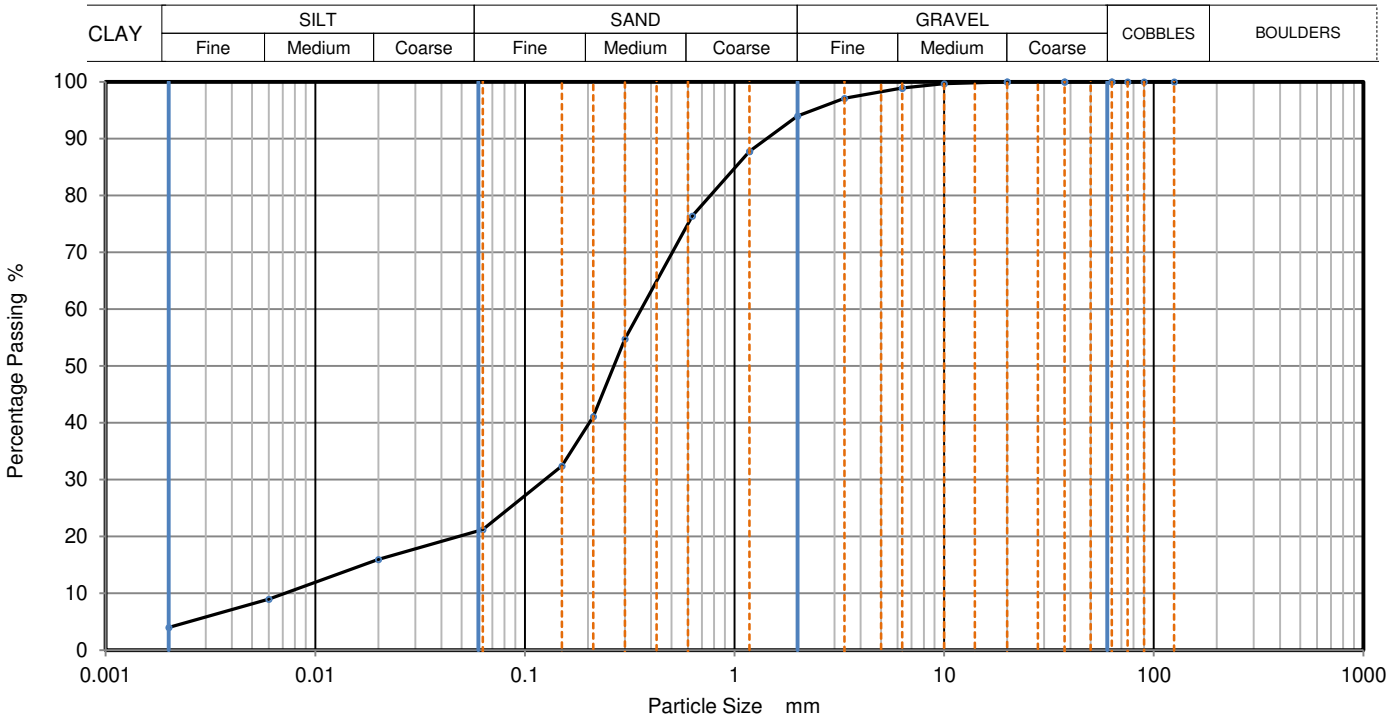
Grading Analysis		
D100	mm	20
D60	mm	0.672
D30	mm	0.294
D10	mm	0.0826
Uniformity Coefficient		8.1
Curvature Coefficient		1.6

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_07
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	20
Description	Brown gravelly very silty SAND			Depth, m	18.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	IT1_SB_07_B20



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	16
90	100	0.0060	9
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	97		
2	94		
1.18	88		
		Particle density (assumed)	
0.63	76	2.70 Mg/m3	
0.3	55		
0.212	41		
0.15	32		
0.063	21		

Dry Mass of sample, g	1363

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	6.0
Sand	72.7
Silt	17.2
Clay	4.1

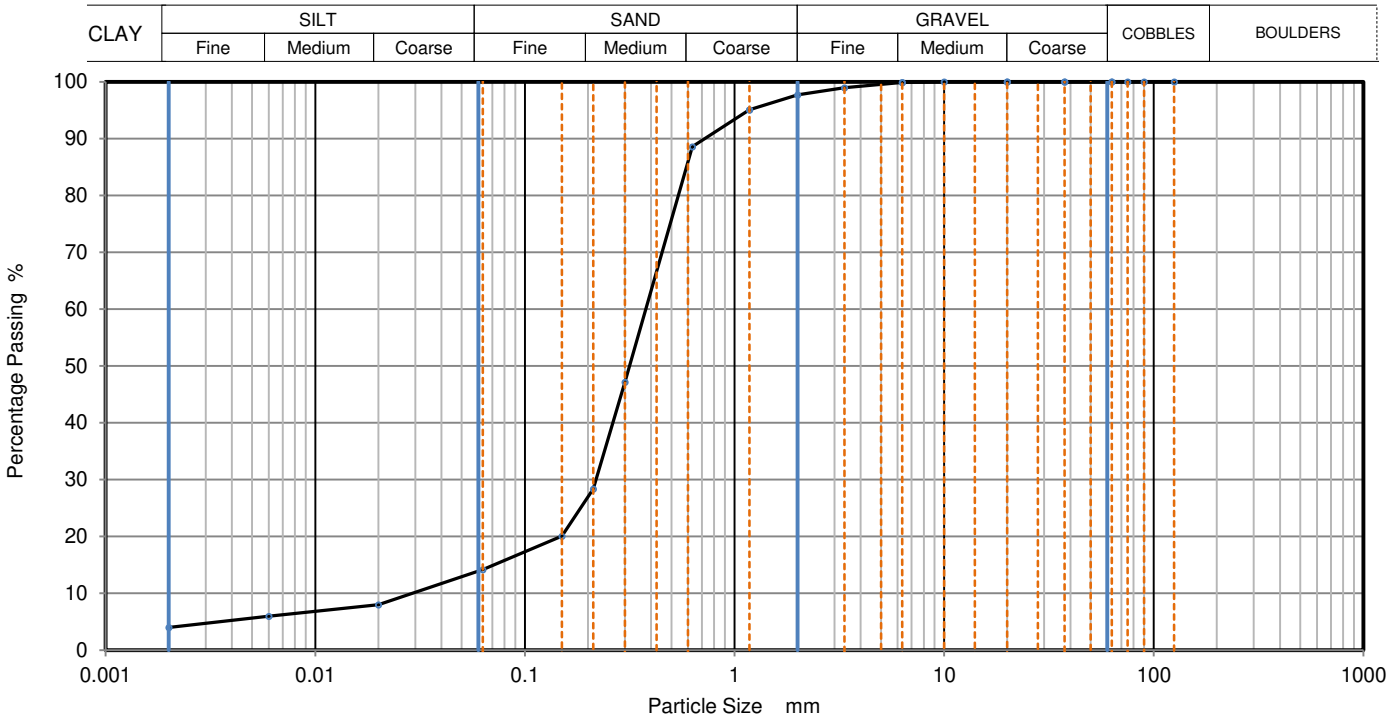
Grading Analysis		
D100	mm	20
D60	mm	0.359
D30	mm	0.125
D10	mm	0.00666
Uniformity Coefficient		54
Curvature Coefficient		6.5

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_07
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	21
Description	Brown clayey SAND. Occasional shell fragments			Depth, m	21.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	IT1_SB_07_B21



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	8
90	100	0.0060	6
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	99		
2	98		
1.18	95		
		Particle density	(assumed)
0.63	89	2.70	Mg/m3
0.3	47		
0.212	28		
0.15	20		
0.063	14		

Dry Mass of sample, g	968

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	2.3
Sand	83.5
Silt	10.1
Clay	4.1

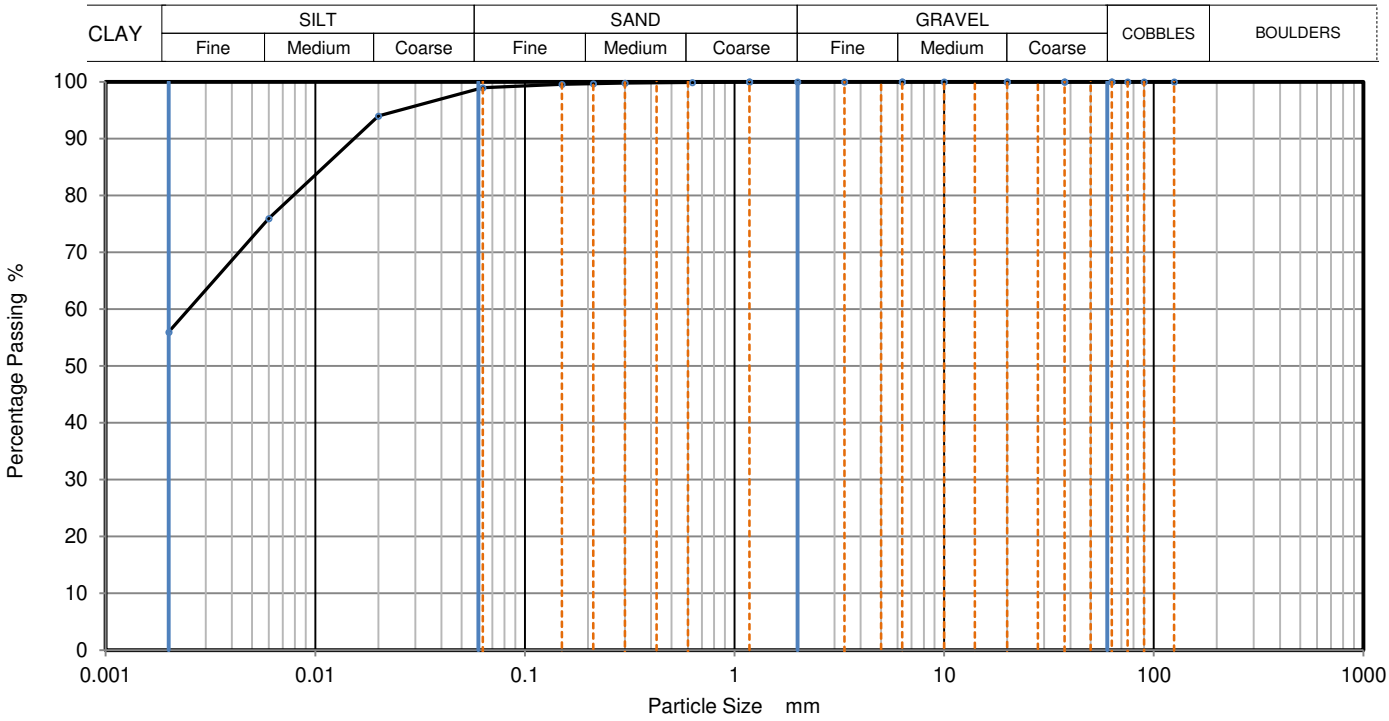
Grading Analysis		
D100	mm	10
D60	mm	0.377
D30	mm	0.218
D10	mm	0.0273
Uniformity Coefficient		14
Curvature Coefficient		4.6

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_07
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	12
Description	Brown slightly sandy CLAY			Depth, m	28.17
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	IT1_SB_07_C12



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	94
90	100	0.0060	76
75	100	0.0020	56
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density (assumed)	
0.63	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	100		
0.063	99		

Dry Mass of sample, g: 503

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	1.0
Silt	43.0
Clay	56.0

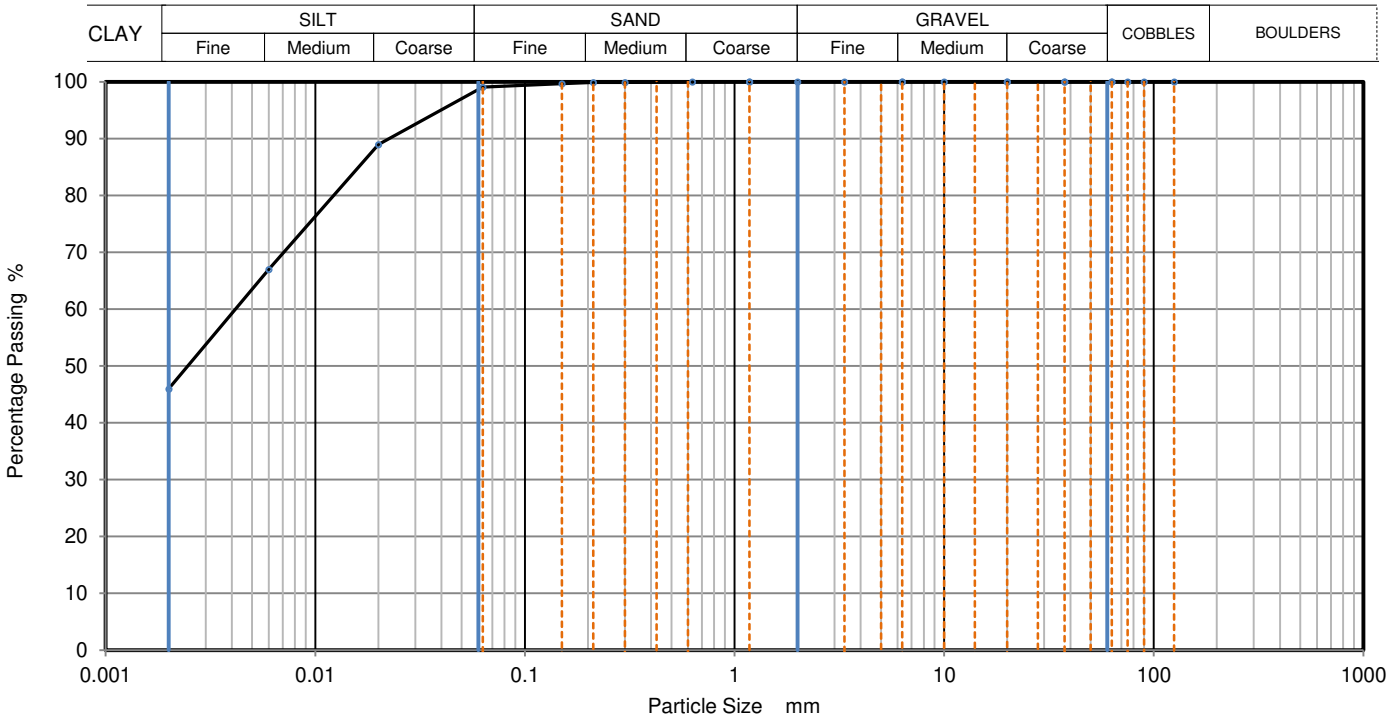
Grading Analysis		
D100	mm	2
D60	mm	0.00248
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
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FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT1_SB_07
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	11
Description	Brown slightly sandy CLAY			Depth, m	49.90
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	IT1_SB_07_C11



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	89
90	100	0.0060	67
75	100	0.0020	46
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density (assumed)	
0.63	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	100		
0.063	99		

Dry Mass of sample, g: 425

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	0.9
Silt	53.0
Clay	46.1

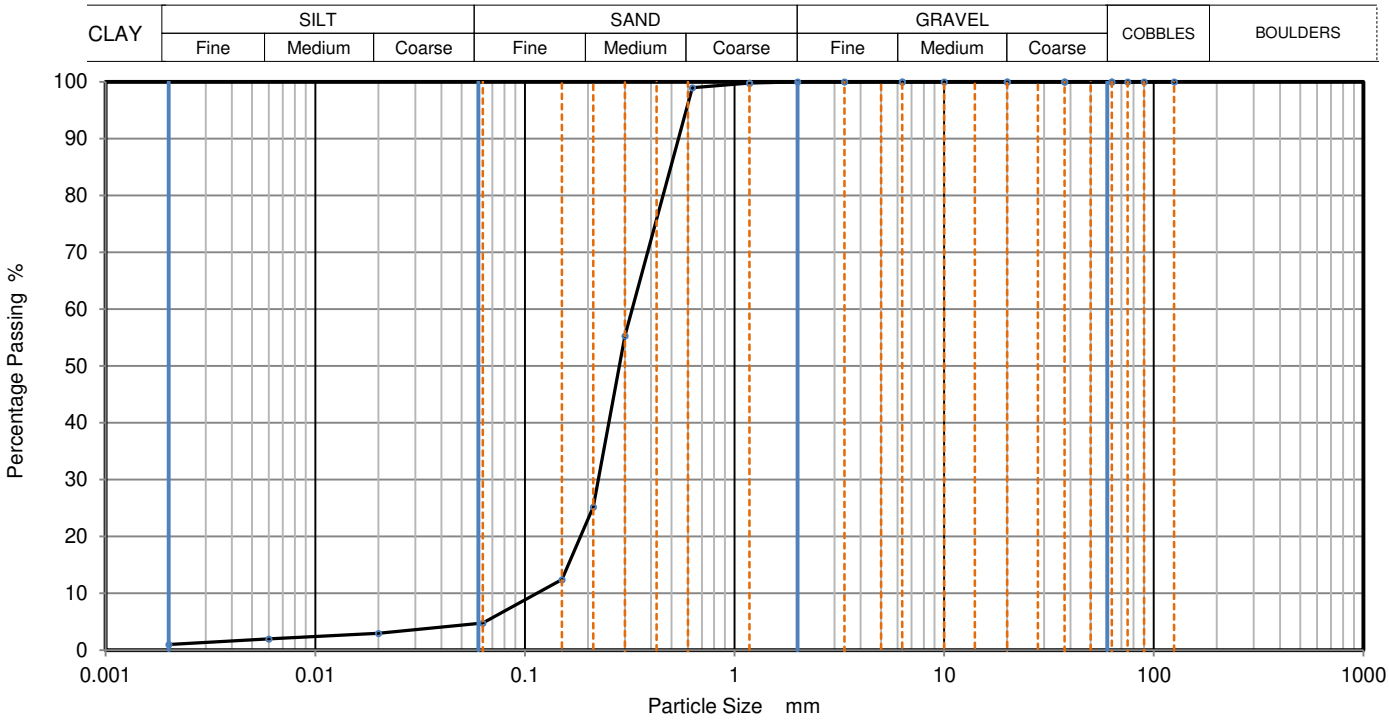
Grading Analysis		
D100	mm	1.18
D60	mm	0.00413
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	3
Description	Brown slightly clayey SAND			Depth, m	12.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-SJZW8A-TKWH



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	2
75	100	0.0020	1
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	99	2.70	Mg/m3
0.3	55		
0.212	25		
0.15	12		
0.063	5		

Dry Mass of sample, g	1312

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	95.1
Silt	3.6
Clay	1.3

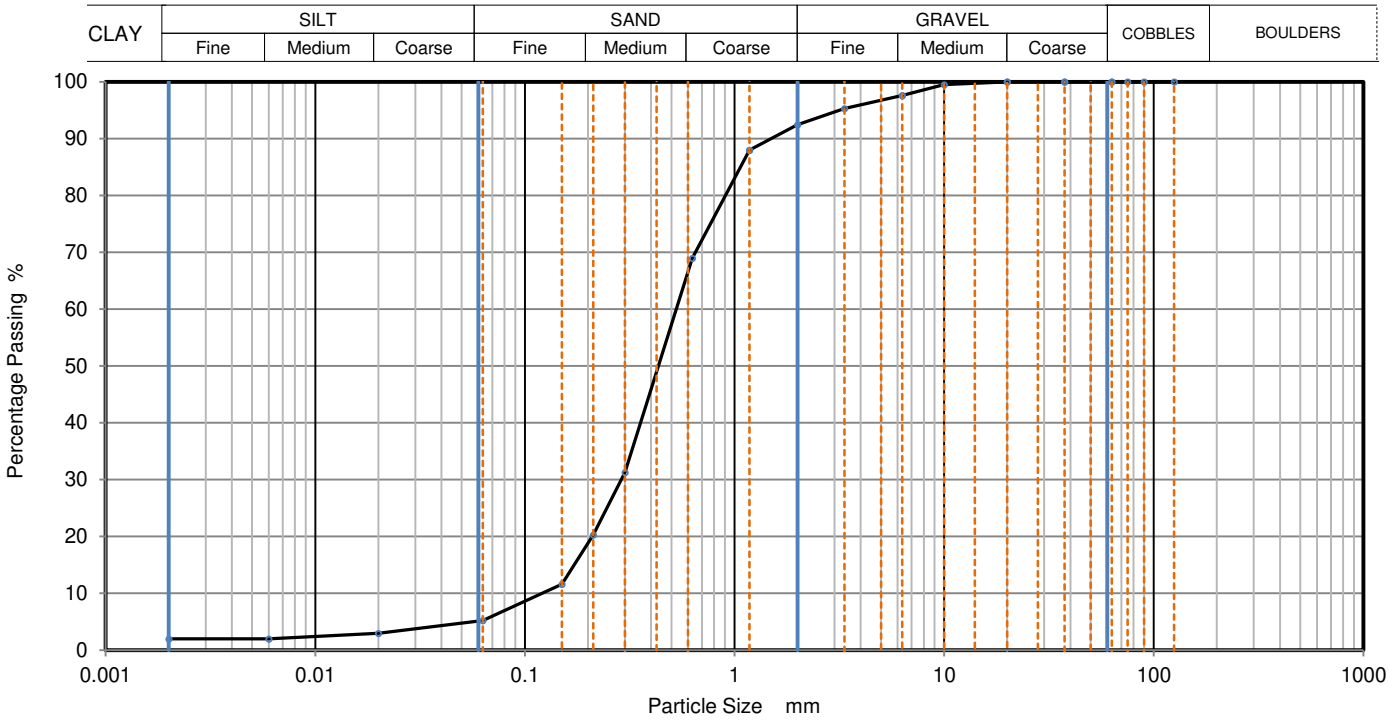
Grading Analysis		
D100	mm	3.35
D60	mm	0.325
D30	mm	0.224
D10	mm	0.114
Uniformity Coefficient		2.8
Curvature Coefficient		1.4

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	5
Description	Brown clayey SAND. Some shell fragments			Depth, m	21.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-CKZW8A-91JW



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	2
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	98		
3.35	95		
2	93		
1.18	88		
		Particle density	(assumed)
0.63	69	2.70	Mg/m3
0.3	31		
0.212	20		
0.15	12		
0.063	5		

Dry Mass of sample, g	1293

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	7.5
Sand	87.3
Silt	3.6
Clay	1.6

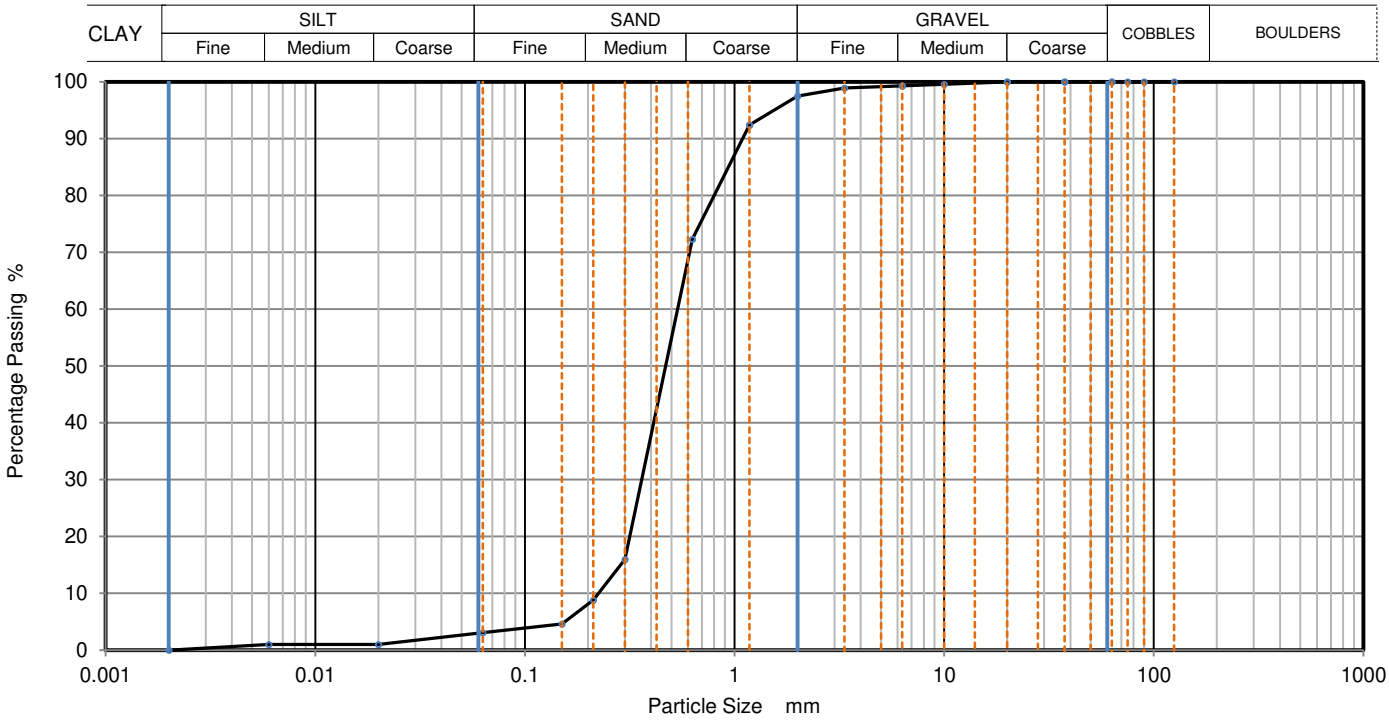
Grading Analysis		
D100	mm	20
D60	mm	0.528
D30	mm	0.288
D10	mm	0.121
Uniformity Coefficient		4.4
Curvature Coefficient		1.3

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	10
Description	Brown slightly silty SAND + shell fragments			Depth, m	30.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-3MZW8A-Z82C



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	1
90	100	0.0060	1
75	100	0.0020	0
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	99		
2	98		
1.18	92		
		Particle density (assumed)	
0.63	72	2.70 Mg/m3	
0.3	16		
0.212	9		
0.15	5		
0.063	3		

Dry Mass of sample, g	1033

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	2.5
Sand	94.4
Silt	2.7
Clay	0.4

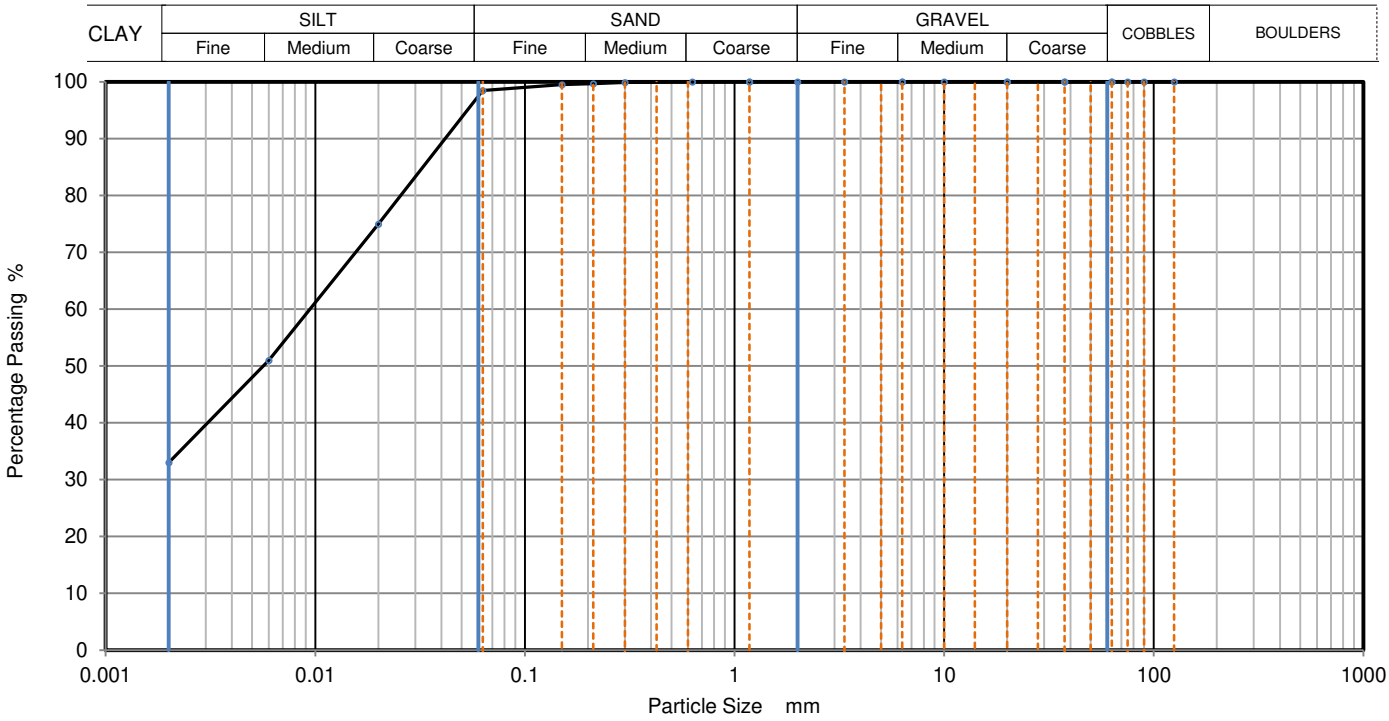
Grading Analysis		
D100	mm	20
D60	mm	0.536
D30	mm	0.361
D10	mm	0.225
Uniformity Coefficient		2.4
Curvature Coefficient		1.1

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	1
Description	Brown slightly sandy CLAY			Depth, m	44.40
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-6JZW8A-8BFW



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	75
90	100	0.0060	51
75	100	0.0020	33
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density (assumed)	
0.63	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	100		
0.063	99		

Dry Mass of sample, g	520

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	1.5
Silt	65.8
Clay	32.7

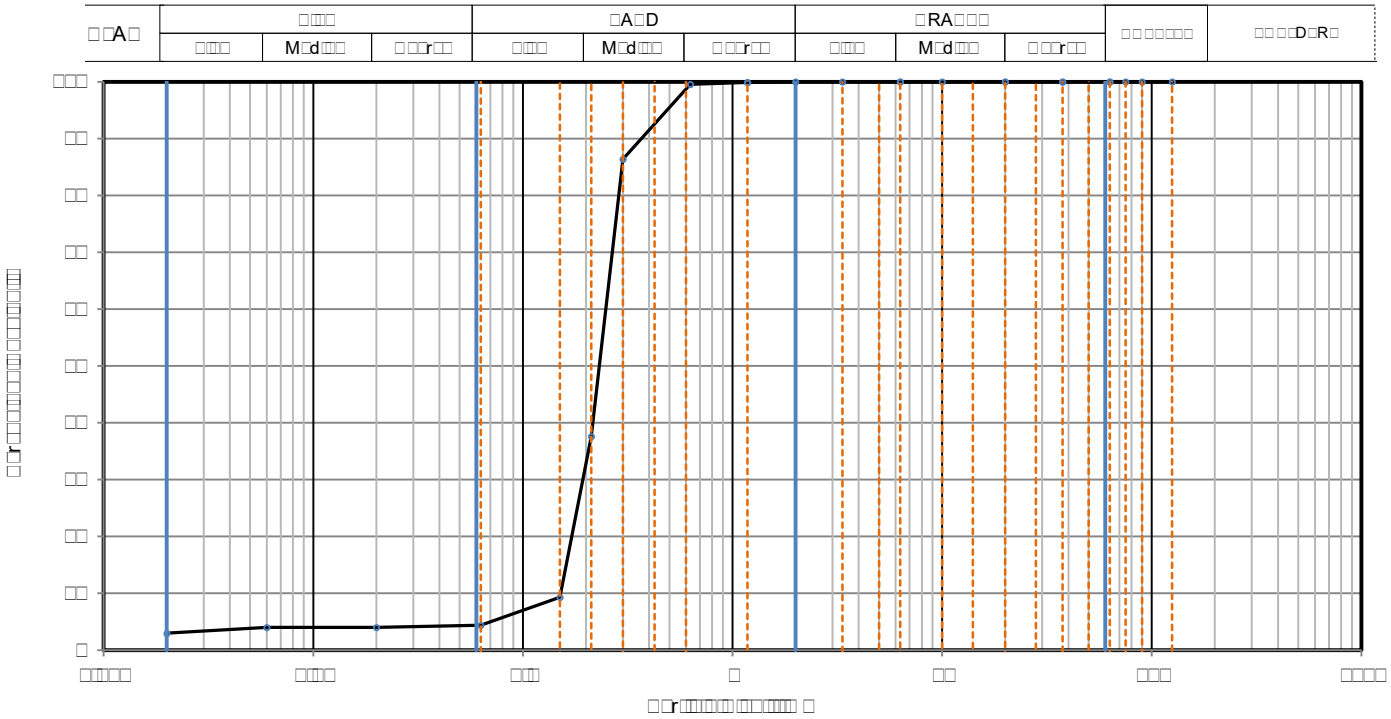
Grading Analysis		
D100	mm	1.18
D60	mm	0.00952
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

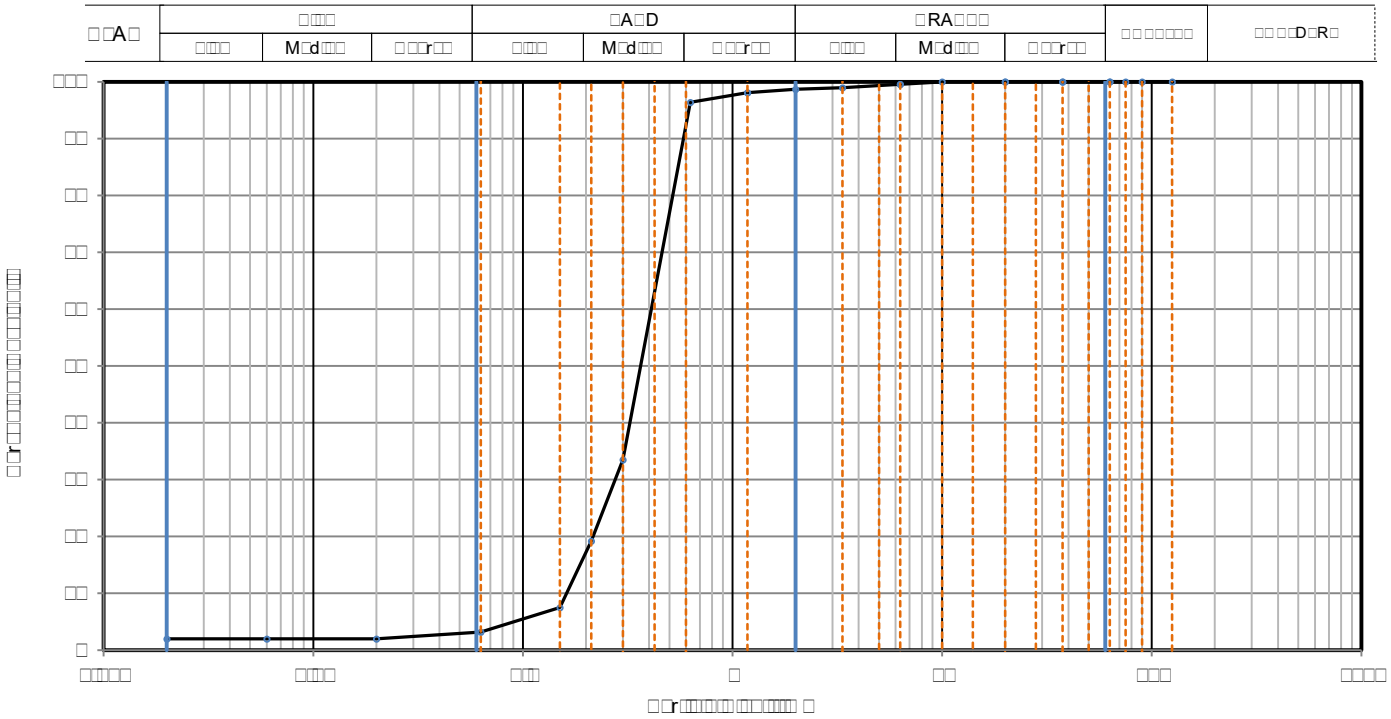
Date printed	Figure number	
16/01/2020		

Particle Size Distribution



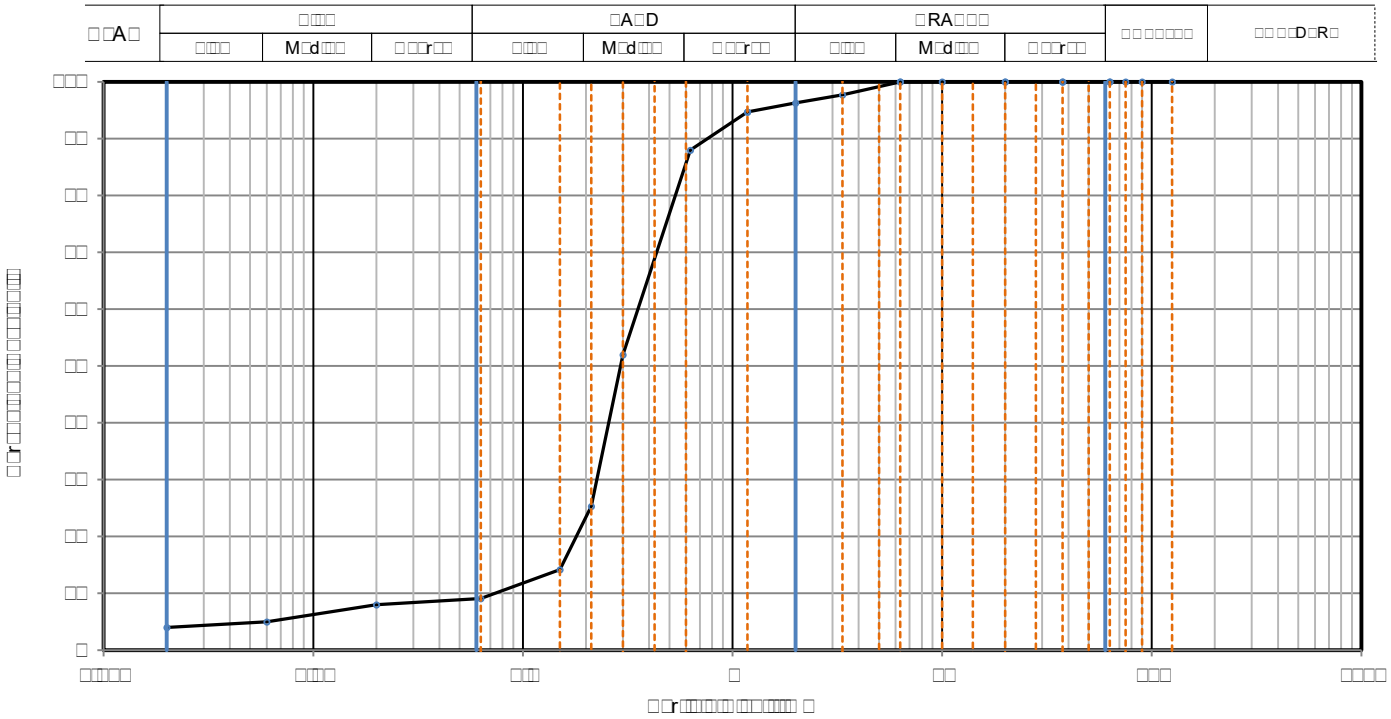
Sieving		Sedimentation	

Particle Size Distribution



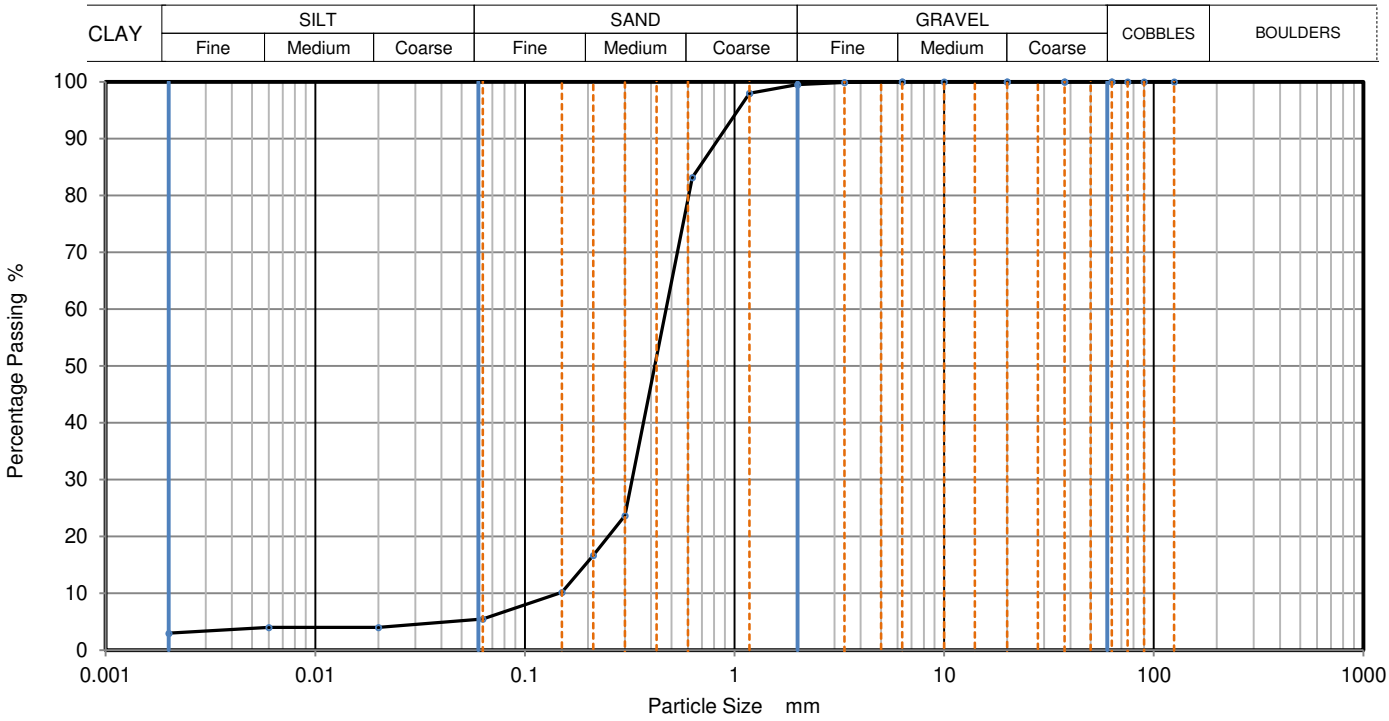
Sieving		Sedimentation	

Particle Size Distribution



Sieving		Sedimentation	

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	10
Description	Orange slightly gravelly clayey SAND. Occasional shell fragments			Depth, m	12.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-XK68BA-ARQQ



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	4
90	100	0.0060	4
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	98		
		Particle density	(assumed)
0.63	83	2.70	Mg/m3
0.3	24		
0.212	17		
0.15	10		
0.063	6		

Dry Mass of sample, g	1180

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.5
Sand	94.0
Silt	2.3
Clay	3.2

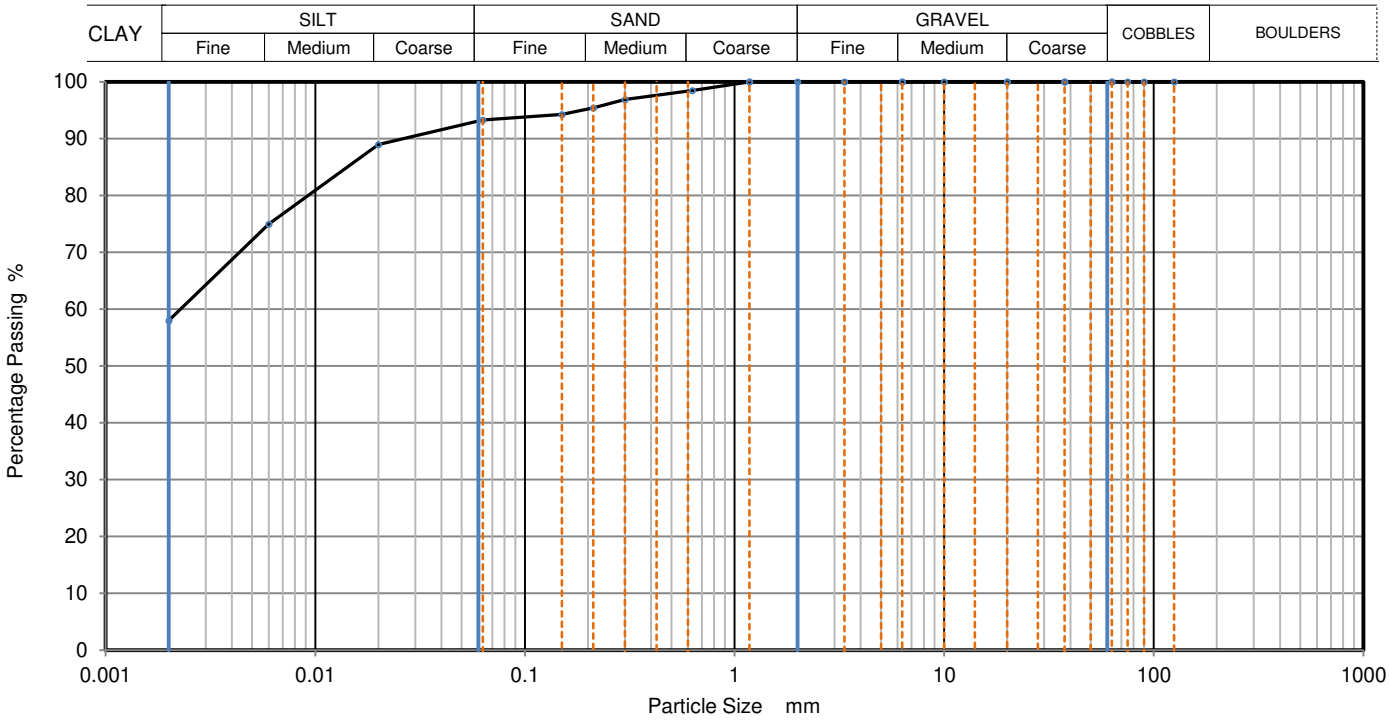
Grading Analysis		
D100	mm	6.3
D60	mm	0.472
D30	mm	0.325
D10	mm	0.143
Uniformity Coefficient		3.3
Curvature Coefficient		1.6

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
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FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Brown slightly sandy CLAY			Depth, m	33.38
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-JGCBBA-DUOA



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	89
90	100	0.0060	75
75	100	0.0020	58
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	99	2.70	Mg/m3
0.3	97		
0.212	95		
0.15	94		
0.063	93		

Dry Mass of sample, g	428

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	6.7
Silt	35.4
Clay	57.9

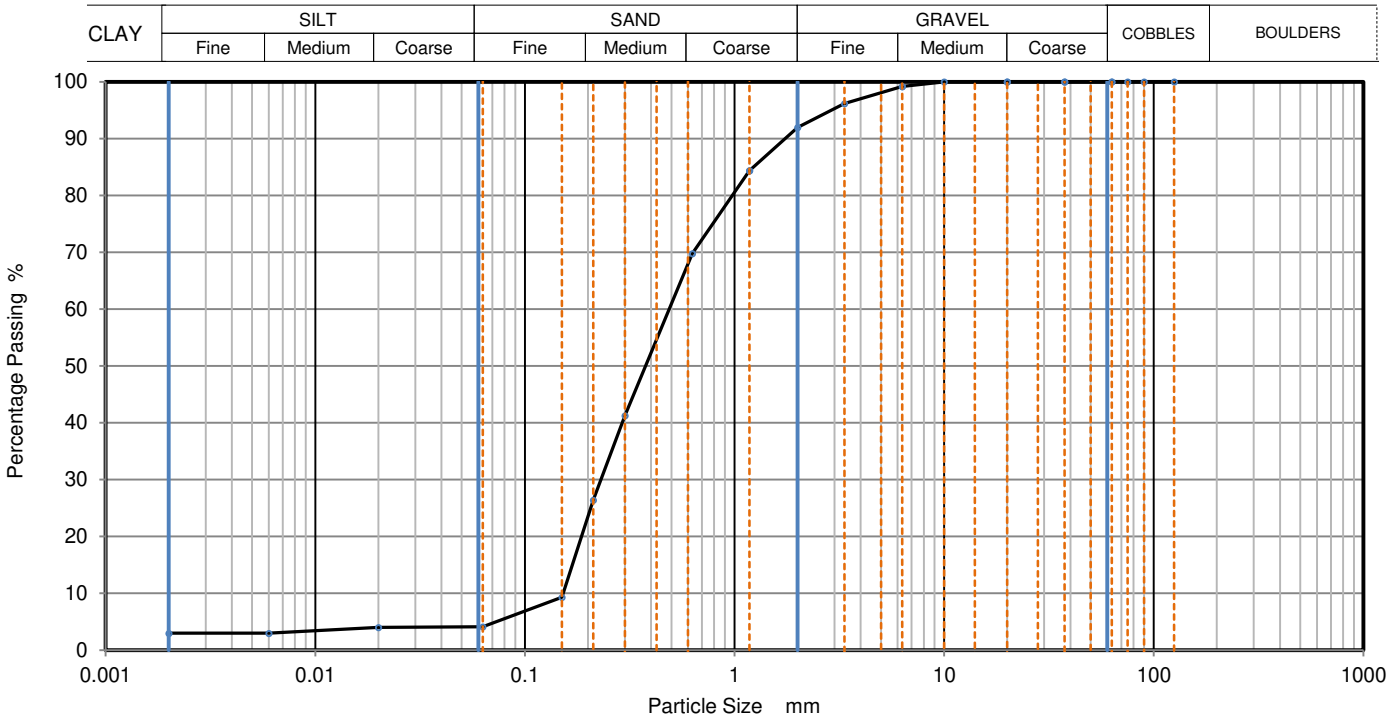
Grading Analysis		
D100	mm	1.18
D60	mm	0.0023
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
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FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_04
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	9
Description	Brown orange slightly silty gravelly SAND			Depth, m	6.10
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-QPO99A-7RF7



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	4
90	100	0.0060	3
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	96		
2	92		
1.18	84		
		Particle density (assumed)	
0.63	70	2.70 Mg/m3	
0.3	41		
0.212	26		
0.15	9		
0.063	4		

Dry Mass of sample, g	4430

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	8.0
Sand	87.9
Silt	1.2
Clay	2.9

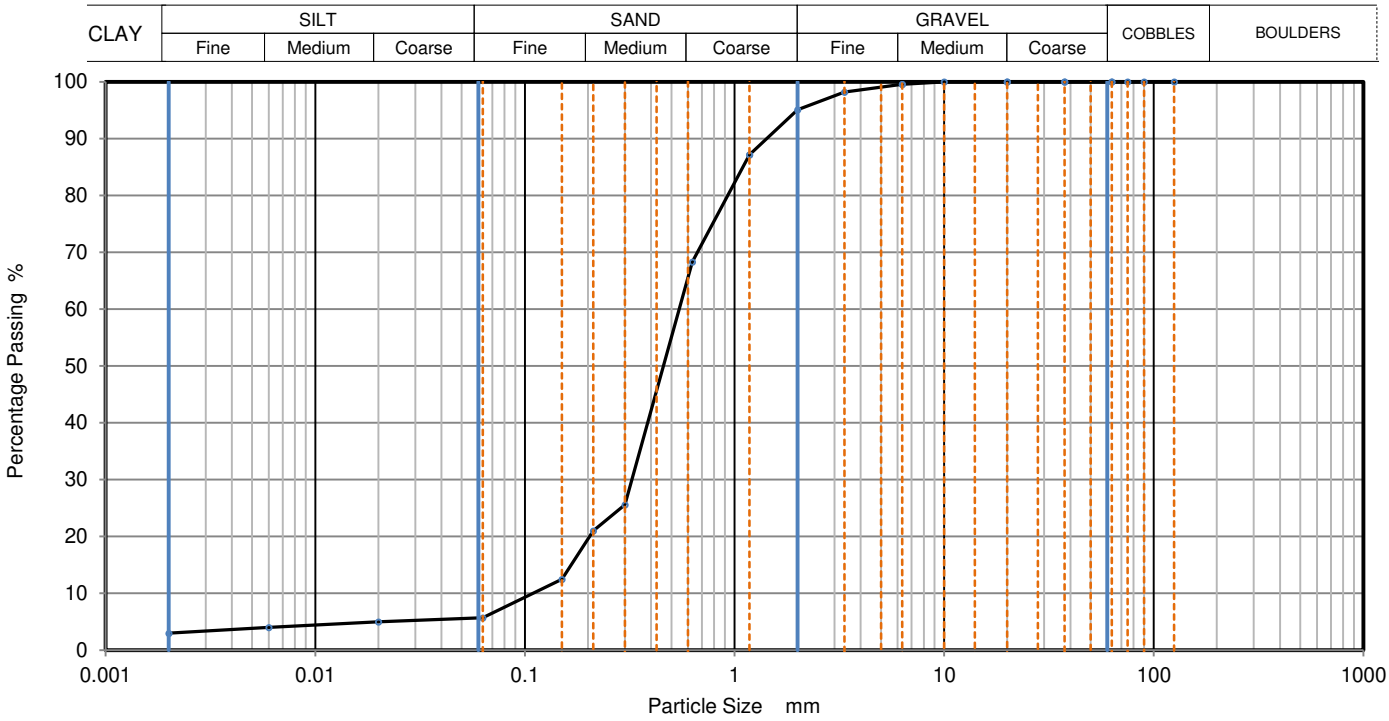
Grading Analysis		
D100	mm	20
D60	mm	0.488
D30	mm	0.231
D10	mm	0.152
Uniformity Coefficient		3.2
Curvature Coefficient		0.72

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_04
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	14
Description	Grey slightly gravelly silty SAND			Depth, m	14.90
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-7SO99A-7K5W



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	5
90	100	0.0060	4
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	98		
2	95		
1.18	87		
		Particle density (assumed)	
0.63	68	2.70	Mg/m3
0.3	26		
0.212	21		
0.15	13		
0.063	6		

Dry Mass of sample, g	4419

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	4.9
Sand	89.5
Silt	2.2
Clay	3.4

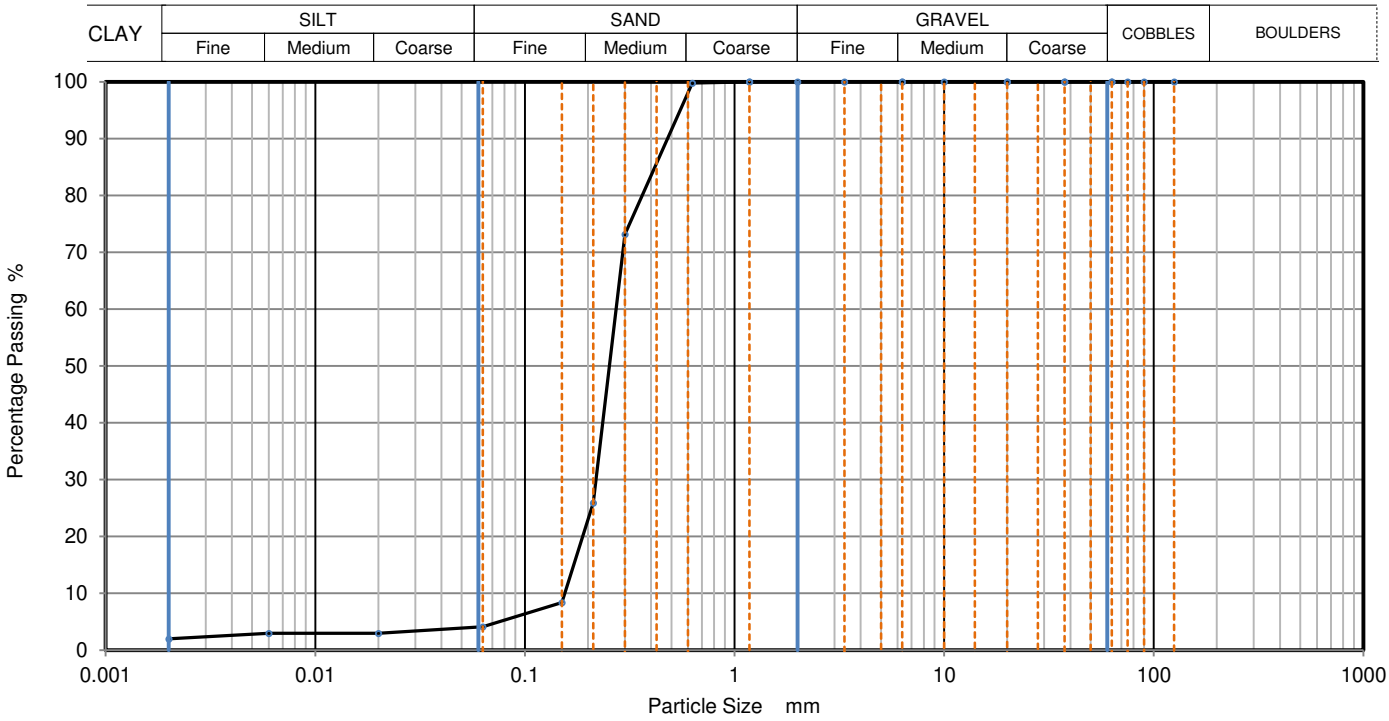
Grading Analysis		
D100	mm	10
D60	mm	0.546
D30	mm	0.324
D10	mm	0.109
Uniformity Coefficient		5
Curvature Coefficient		1.8

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_04
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	11
Description	Grey slightly silty SAND			Depth, m	25.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-FRO99A-55SI



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	3
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	100	2.70	Mg/m3
0.3	73		
0.212	26		
0.15	8		
0.063	4		

Dry Mass of sample, g: 1546

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	95.9
Silt	2.0
Clay	2.1

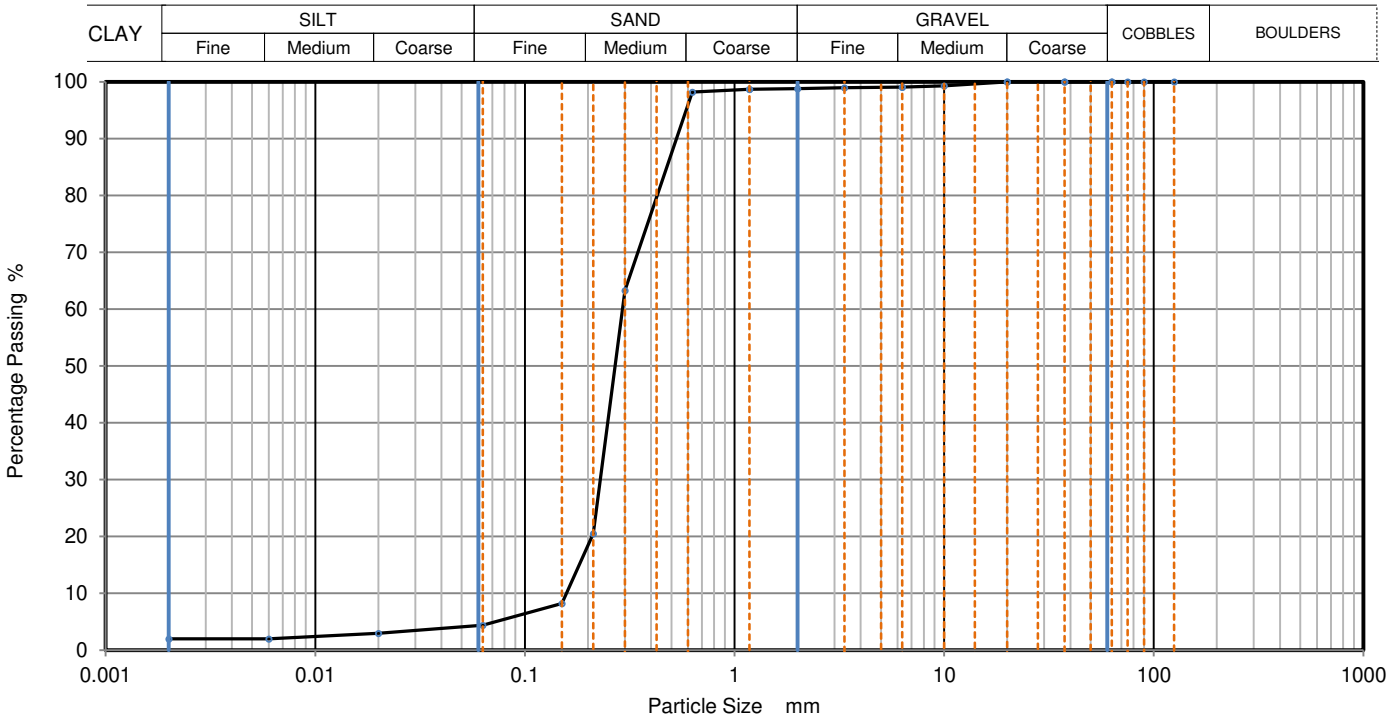
Grading Analysis		
D100	mm	2
D60	mm	0.272
D30	mm	0.218
D10	mm	0.155
Uniformity Coefficient		1.8
Curvature Coefficient		1.1

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	IT2_SB_04
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Brown slightly gravelly slightly silty SAND			Depth, m	34.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-JSO99A-TFS1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	3
90	100	0.0060	2
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	99		
6.3	99		
3.35	99		
2	99		
1.18	99		
		Particle density	(assumed)
0.63	98	2.70	Mg/m3
0.3	63		
0.212	21		
0.15	8		
0.063	4		

Dry Mass of sample, g	2378

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	1.2
Sand	94.4
Silt	2.7
Clay	1.7

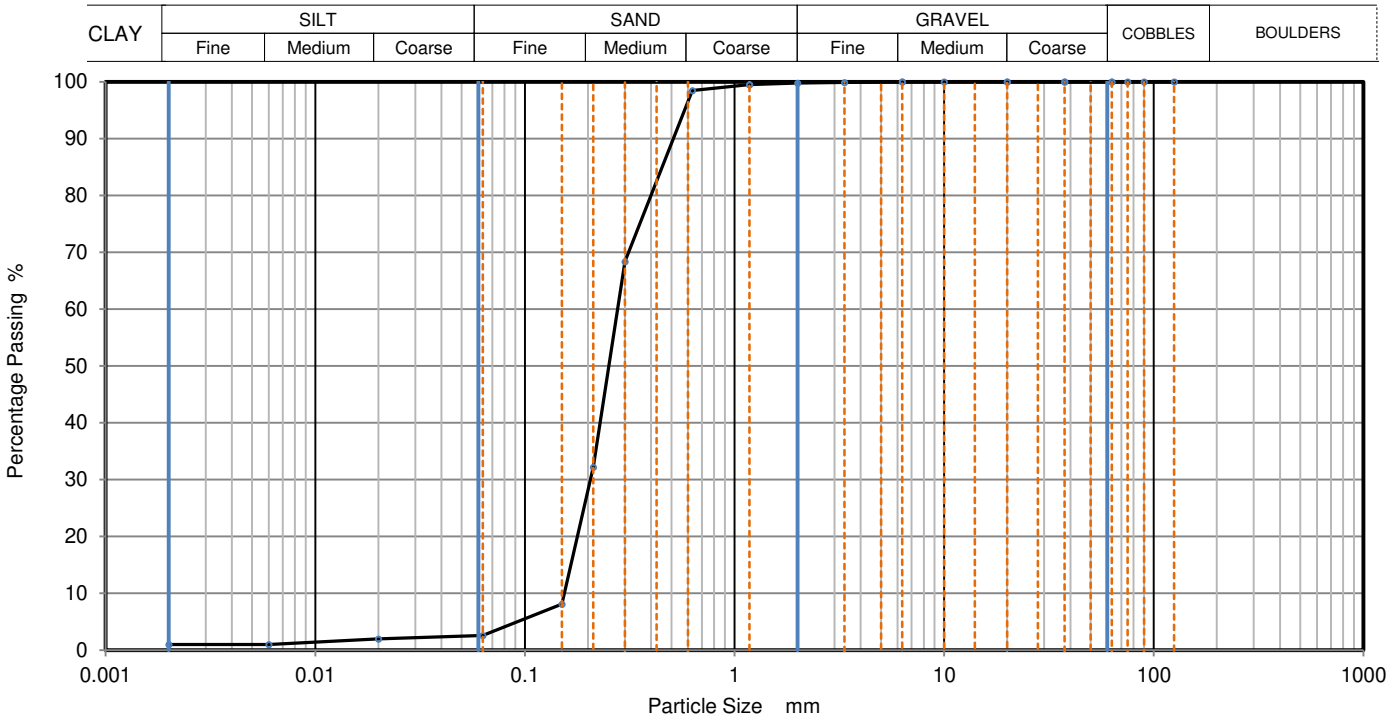
Grading Analysis		
D100	mm	20
D60	mm	0.292
D30	mm	0.229
D10	mm	0.158
Uniformity Coefficient		1.9
Curvature Coefficient		1.1

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	7
Description	Brown slightly gravelly slightly silty SAND			Depth, m	12.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-WYL99A-M4Y3



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	2
90	100	0.0060	1
75	100	0.0020	1
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	99	2.70	Mg/m3
0.3	68		
0.212	32		
0.15	8		
0.063	3		

Dry Mass of sample, g	6501

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.2
Sand	97.3
Silt	1.2
Clay	1.3

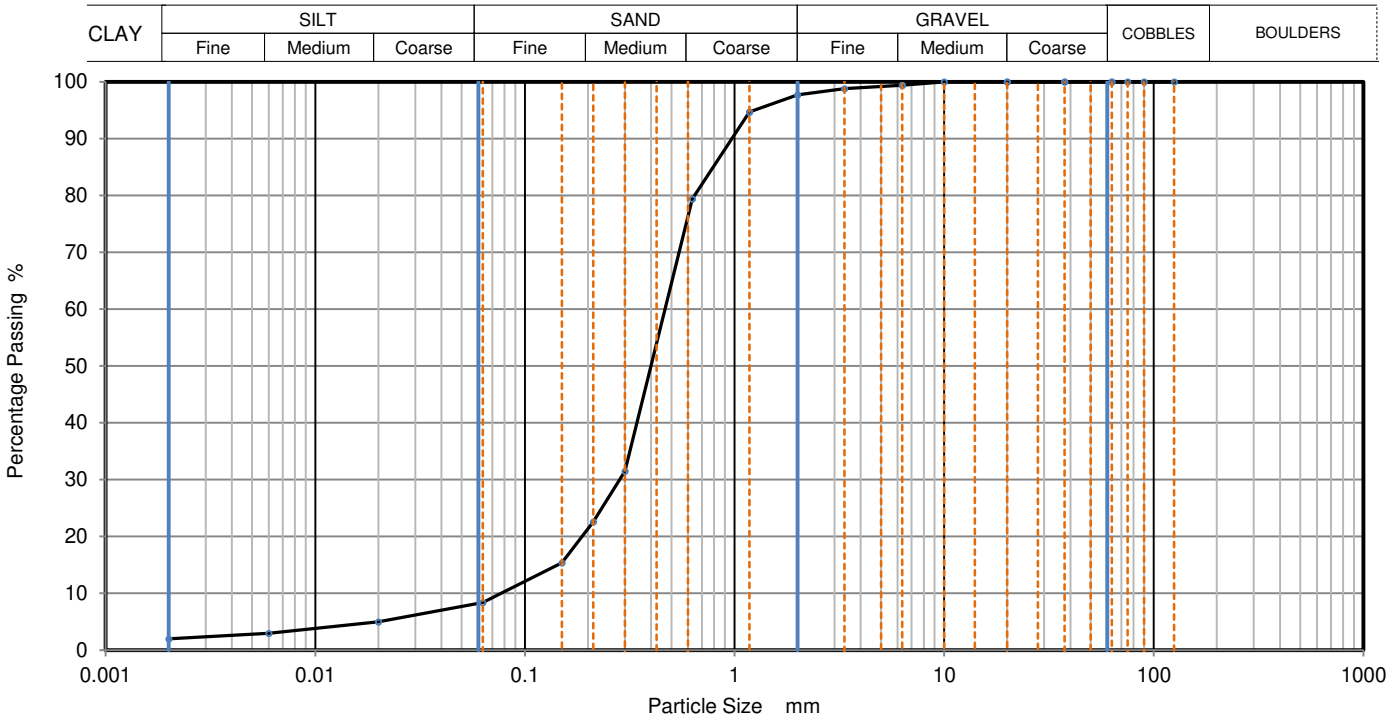
Grading Analysis		
D100	mm	6.3
D60	mm	0.277
D30	mm	0.206
D10	mm	0.154
Uniformity Coefficient		1.8
Curvature Coefficient		0.99

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_01
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	9
Description	Grey slightly gravelly silty SAND			Depth, m	39.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-40M99A-M2WK



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	5
90	100	0.0060	3
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	100		
6.3	99		
3.35	99		
2	98		
1.18	95		
		Particle density	(assumed)
0.63	79	2.70	Mg/m3
0.3	32		
0.212	23		
0.15	15		
0.063	8		

Dry Mass of sample, g	1404

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	2.3
Sand	89.4
Silt	6.3
Clay	2.0

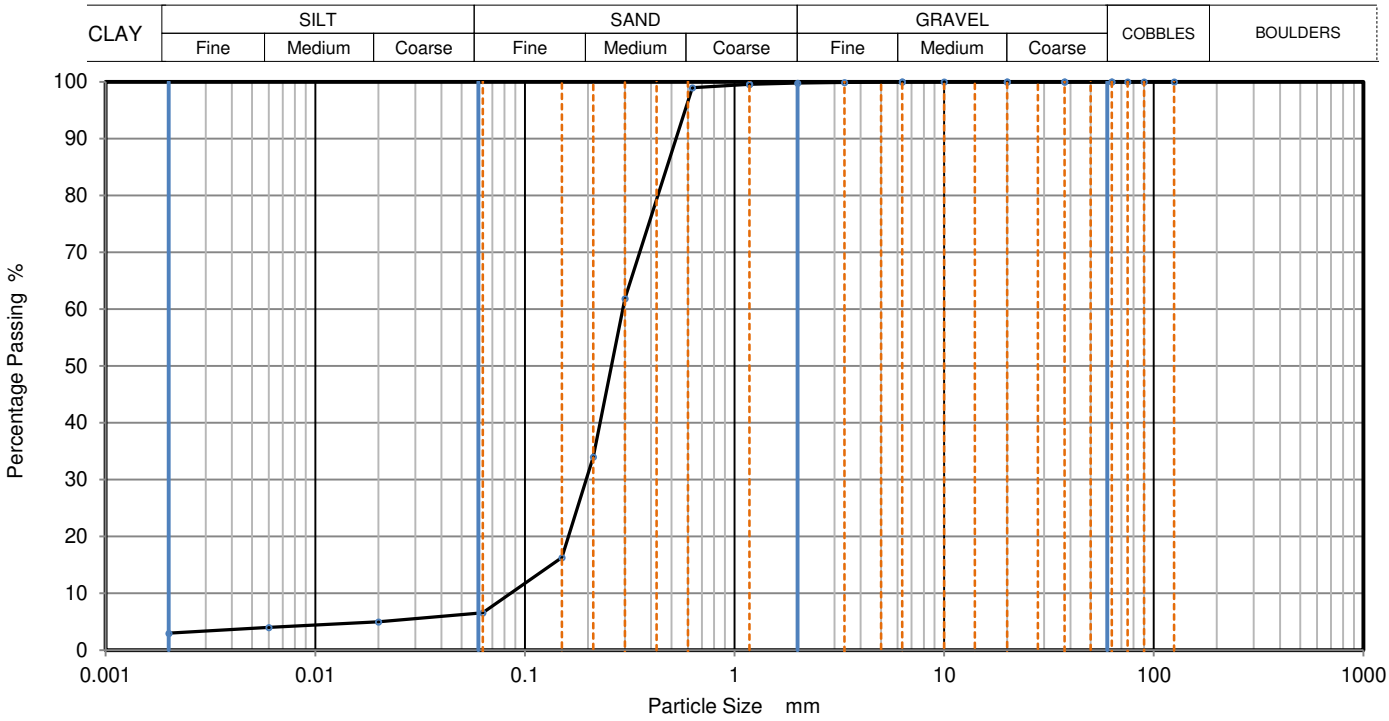
Grading Analysis		
D100	mm	10
D60	mm	0.466
D30	mm	0.283
D10	mm	0.0772
Uniformity Coefficient		6
Curvature Coefficient		2.2

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_02
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	1
Description	Brown slightly gravelly silty SAND			Depth, m	19.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	OT_SB_02_B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	5
90	100	0.0060	4
75	100	0.0020	3
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density	(assumed)
0.63	99	2.70	Mg/m3
0.3	62		
0.212	34		
0.15	16		
0.063	7		

Dry Mass of sample, g	608

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.2
Sand	93.1
Silt	3.5
Clay	3.2

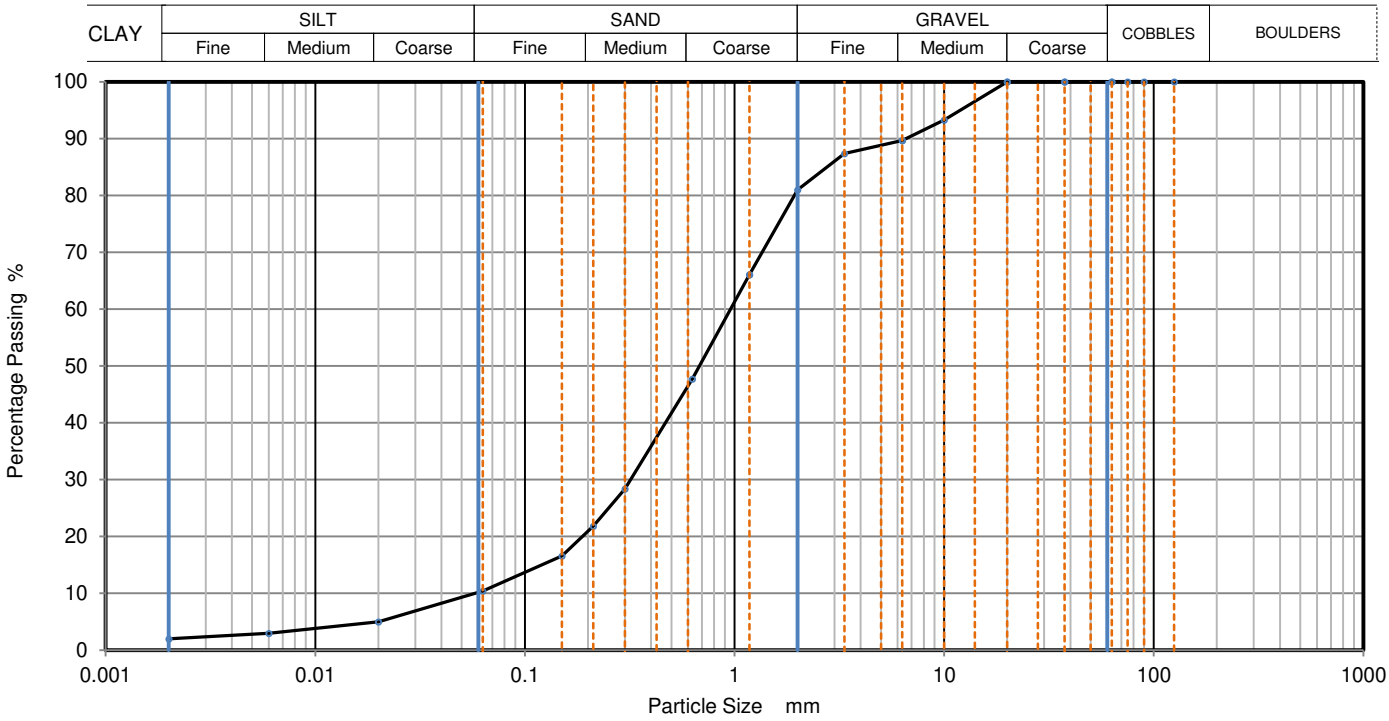
Grading Analysis		
D100	mm	6.3
D60	mm	0.293
D30	mm	0.196
D10	mm	0.0853
Uniformity Coefficient		3.4
Curvature Coefficient		1.5

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	2
Description	Orange silty gravelly SAND			Depth, m	6.70
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-F60F9A-DIZ7



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	5
90	100	0.0060	3
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	93		
6.3	90		
3.35	87		
2	81		
1.18	66		
		Particle density (assumed)	
0.63	48	2.70	Mg/m3
0.3	28		
0.212	22		
0.15	17		
0.063	10		

Dry Mass of sample, g	4708

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	19.0
Sand	70.6
Silt	8.6
Clay	1.8

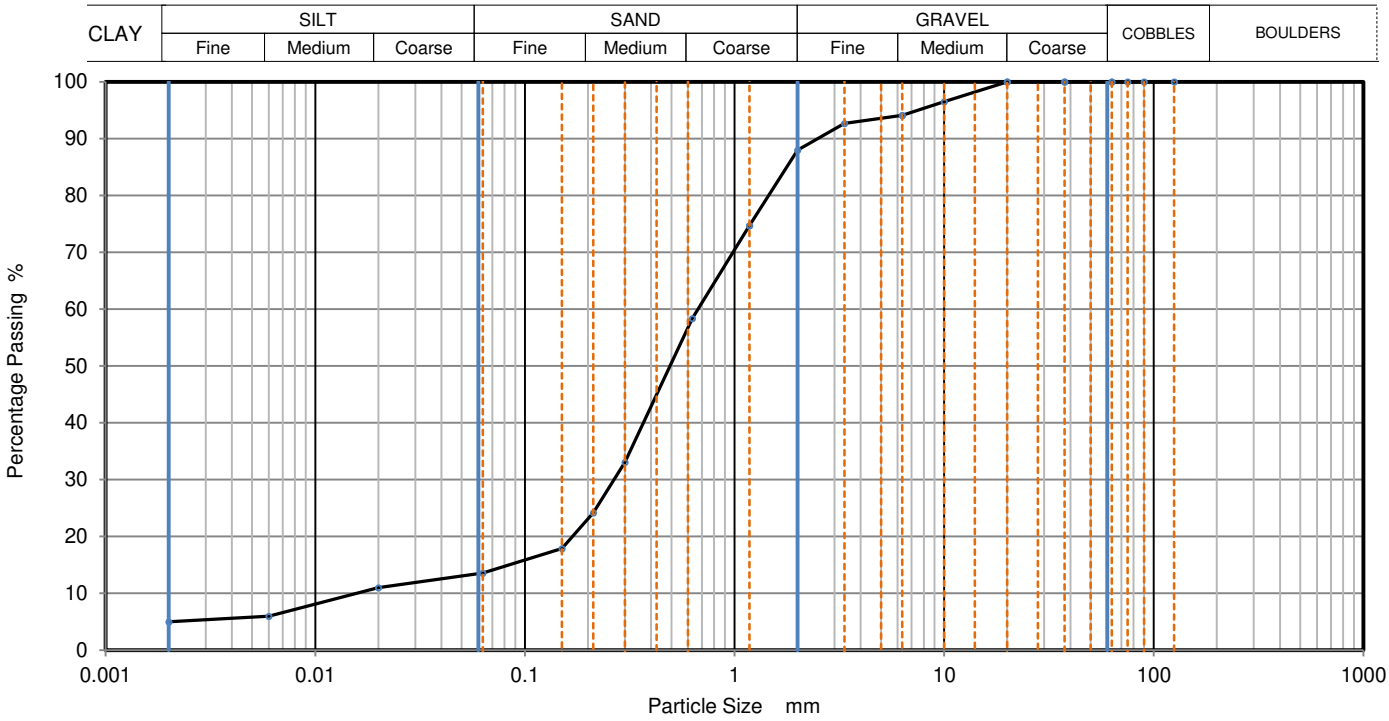
Grading Analysis		
D100	mm	20
D60	mm	0.959
D30	mm	0.319
D10	mm	0.0581
Uniformity Coefficient		16
Curvature Coefficient		1.8

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_03
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	15
Description	Grey gravelly silty SAND			Depth, m	20.10
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-XH0F9A-1KXU



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	11
90	100	0.0060	6
75	100	0.0020	5
63	100		
37.5	100		
20	100		
10	97		
6.3	94		
3.35	93		
2	88		
1.18	75		
		Particle density	(assumed)
0.63	58	2.70	Mg/m3
0.3	33		
0.212	24		
0.15	18		
0.063	14		

Dry Mass of sample, g	6660

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	12.0
Sand	74.4
Silt	8.9
Clay	4.7

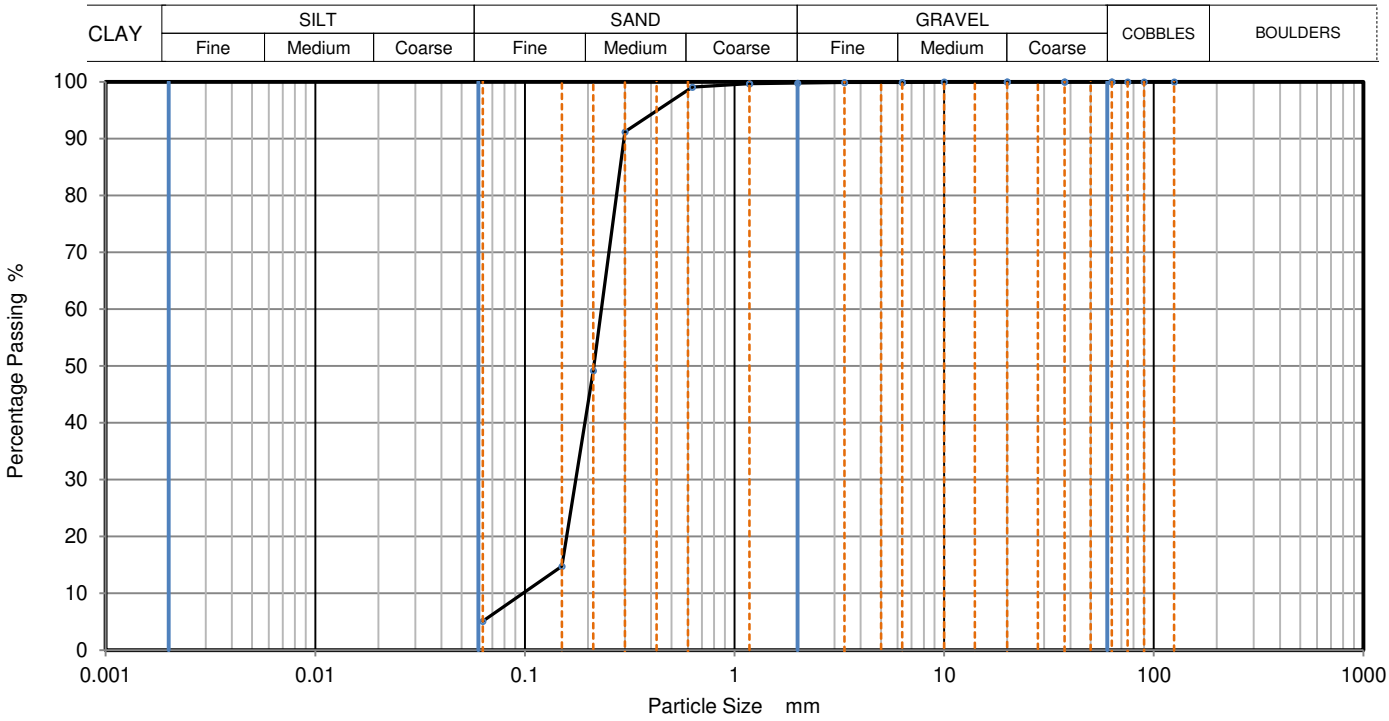
Grading Analysis		
D100	mm	20
D60	mm	0.671
D30	mm	0.266
D10	mm	0.0159
Uniformity Coefficient		42
Curvature Coefficient		6.6

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_04
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	13
Description	Grey brown slightly gravelly silty SAND			Depth, m	9.75
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clause 5.2			KeyLAB ID	F-48RHAA-QZQM



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
0.63	99		
0.3	91		
0.212	49		
0.15	15		
0.063	5		

Dry Mass of sample, g	1202

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.2
Sand	94.7
Fines <0.063mm	5.1

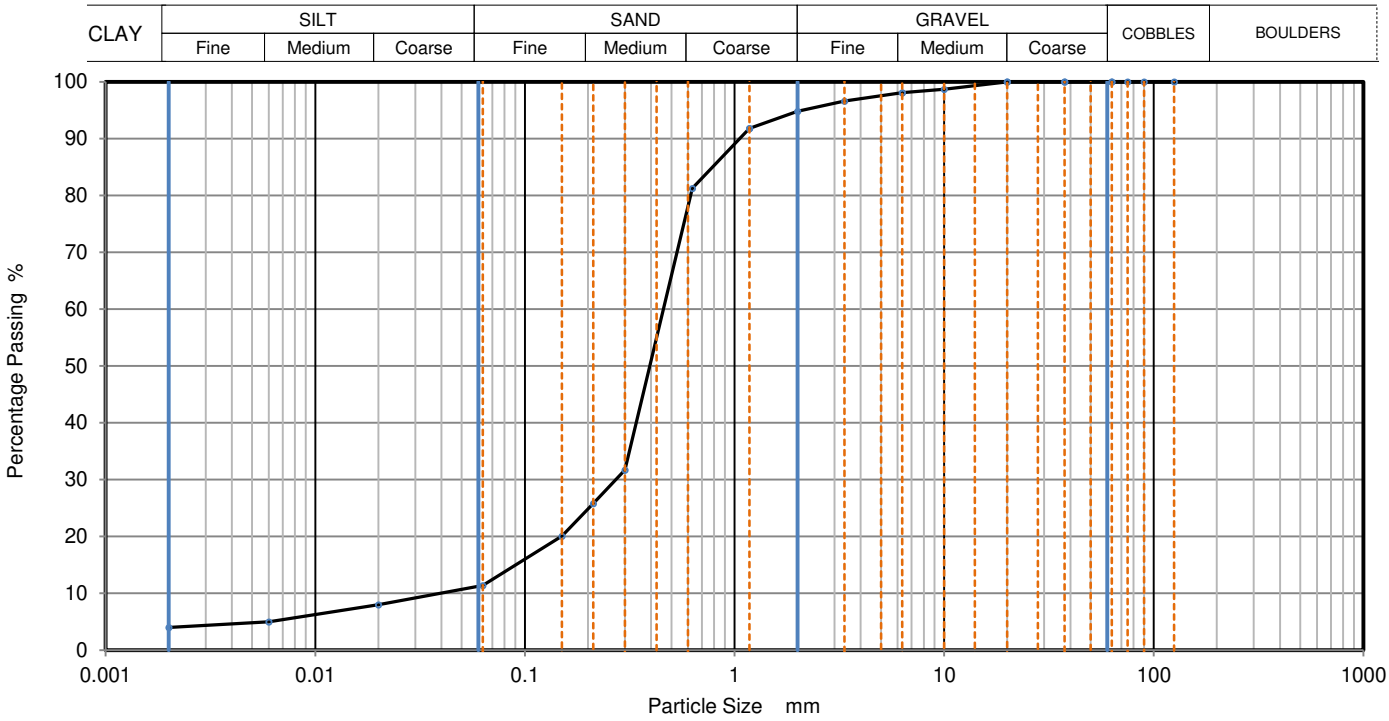
Grading Analysis		
D100	mm	10
D60	mm	0.232
D30	mm	0.175
D10	mm	0.0976
Uniformity Coefficient		2.4
Curvature Coefficient		1.3

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_04
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	18
Description	Grey gravelly clayey SAND. Occasional shell fragments			Depth, m	19.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-DCUHAA-7GSD



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	8
90	100	0.0060	5
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	99		
6.3	98		
3.35	97		
2	95		
1.18	92		
		Particle density	(assumed)
0.63	81	2.70	Mg/m3
0.3	32		
0.212	26		
0.15	20		
0.063	11		

Dry Mass of sample, g	2408

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	5.2
Sand	83.3
Silt	7.8
Clay	3.7

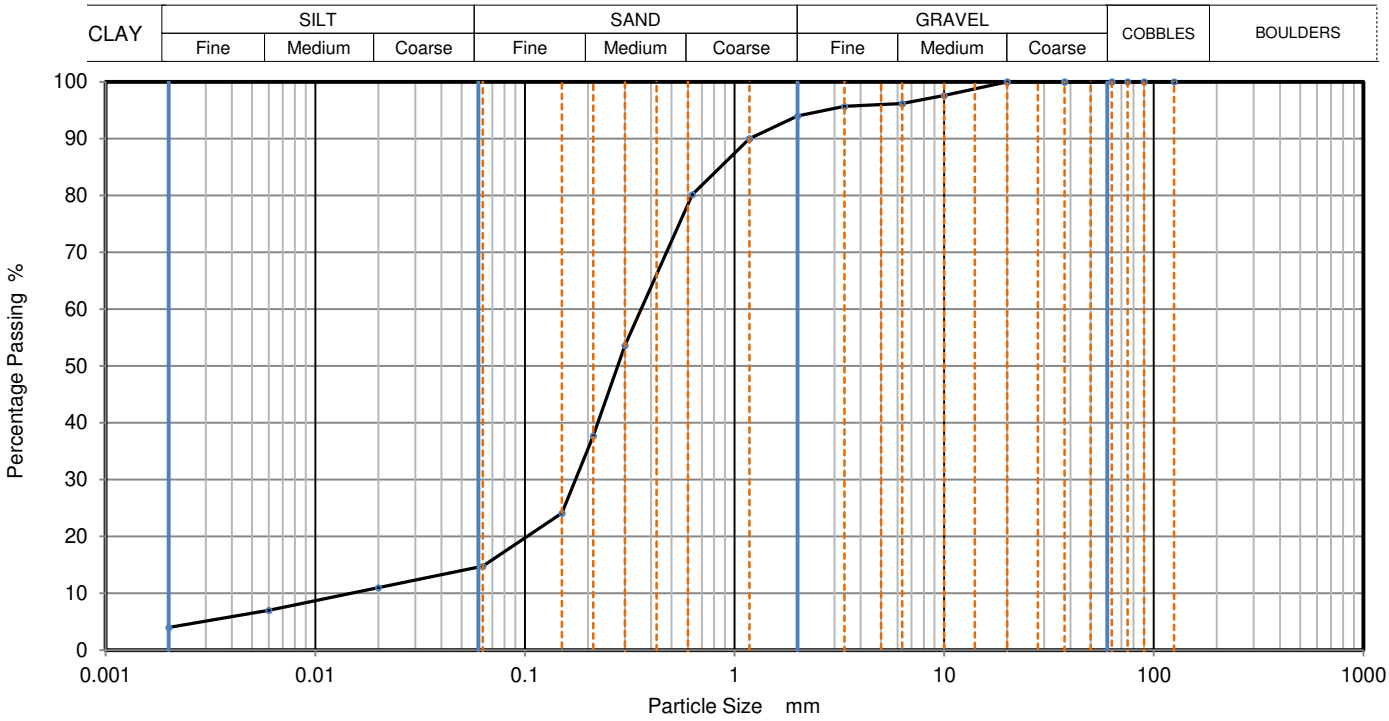
Grading Analysis		
D100	mm	20
D60	mm	0.458
D30	mm	0.271
D10	mm	0.0407
Uniformity Coefficient		11
Curvature Coefficient		3.9

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_05
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	23
Description	Grey gravelly silty SAND			Depth, m	11.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-4RM3AA-5SMV



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	11
90	100	0.0060	7
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	98		
6.3	96		
3.35	96		
2	94		
1.18	90		
		Particle density (assumed)	
0.63	80	2.70	Mg/m3
0.3	54		
0.212	38		
0.15	24		
0.063	15		

Dry Mass of sample, g	6170

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	6.0
Sand	79.2
Silt	10.9
Clay	3.9

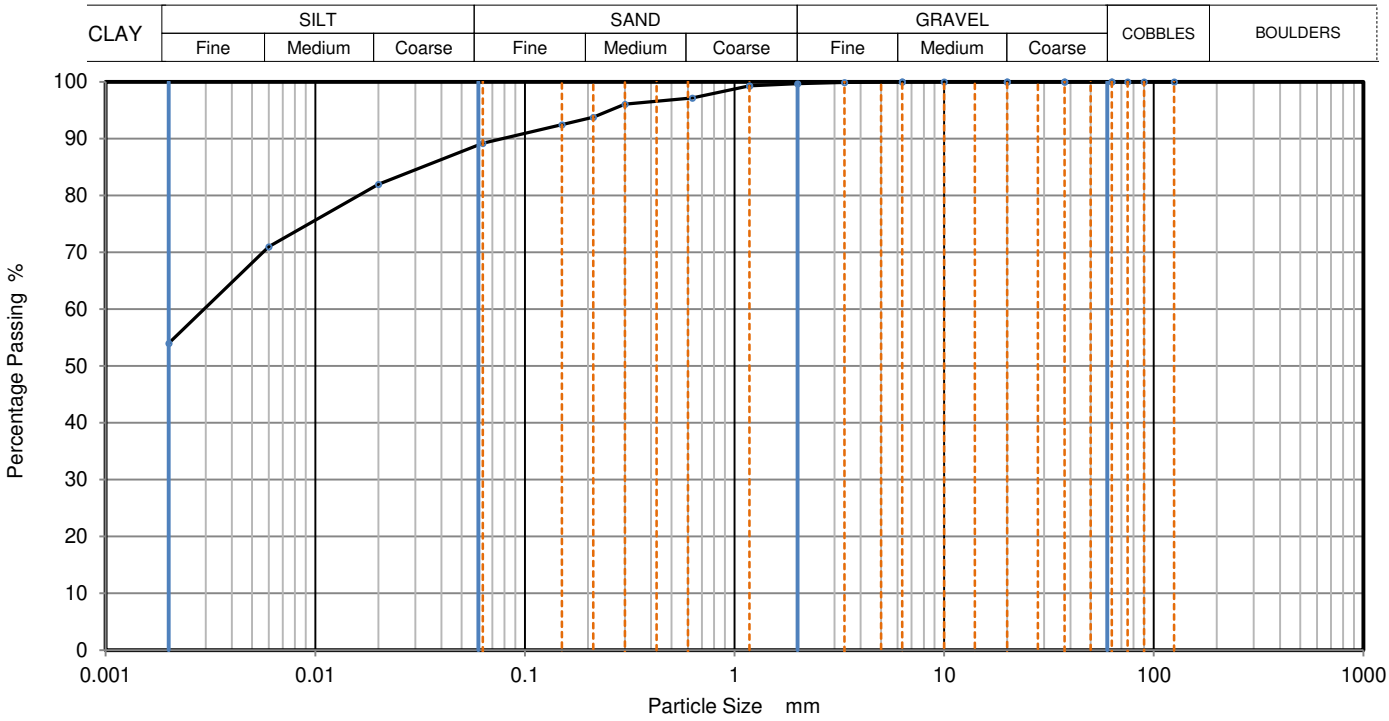
Grading Analysis		
D100	mm	20
D60	mm	0.359
D30	mm	0.174
D10	mm	0.0164
Uniformity Coefficient		22
Curvature Coefficient		5.2

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_05
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	24
Description	Brown slightly gravelly slightly sandy CLAY			Depth, m	27.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-X1R4AA-GMY8



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	82
90	100	0.0060	71
75	100	0.0020	54
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	99		
		Particle density	(assumed)
0.63	97	2.70	Mg/m3
0.3	96		
0.212	94		
0.15	93		
0.063	89		

Dry Mass of sample, g	398

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.3
Sand	10.5
Silt	35.6
Clay	53.6

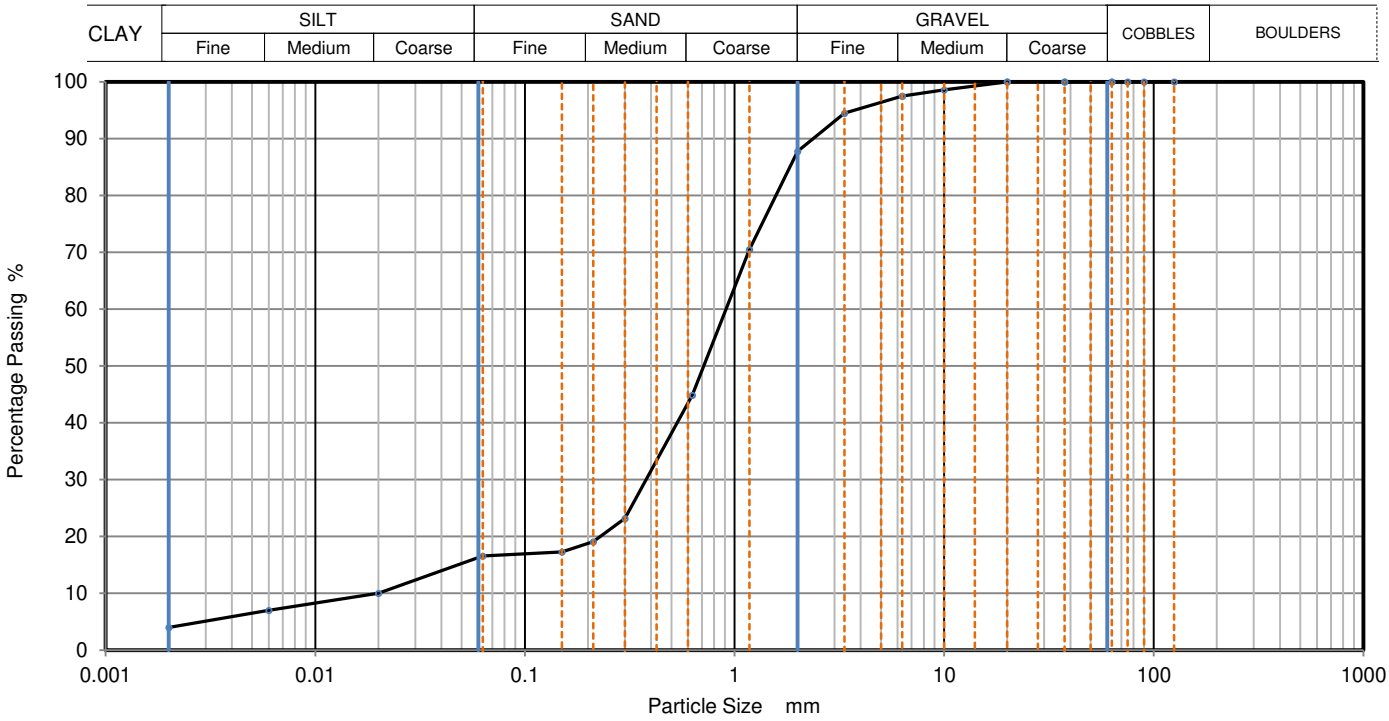
Grading Analysis		
D100	mm	6.3
D60	mm	0.00298
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	6
Description	Brown gravelly silty SAND			Depth, m	9.65
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-ZU61AA-GIQH



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	10
90	100	0.0060	7
75	100	0.0020	4
63	100		
37.5	100		
20	100		
10	99		
6.3	98		
3.35	95		
2	88		
1.18	71		
		Particle density (assumed)	
0.63	45	2.70	Mg/m3
0.3	23		
0.212	19		
0.15	17		
0.063	17		

Dry Mass of sample, g	1780

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	12.2
Sand	71.2
Silt	12.7
Clay	3.9

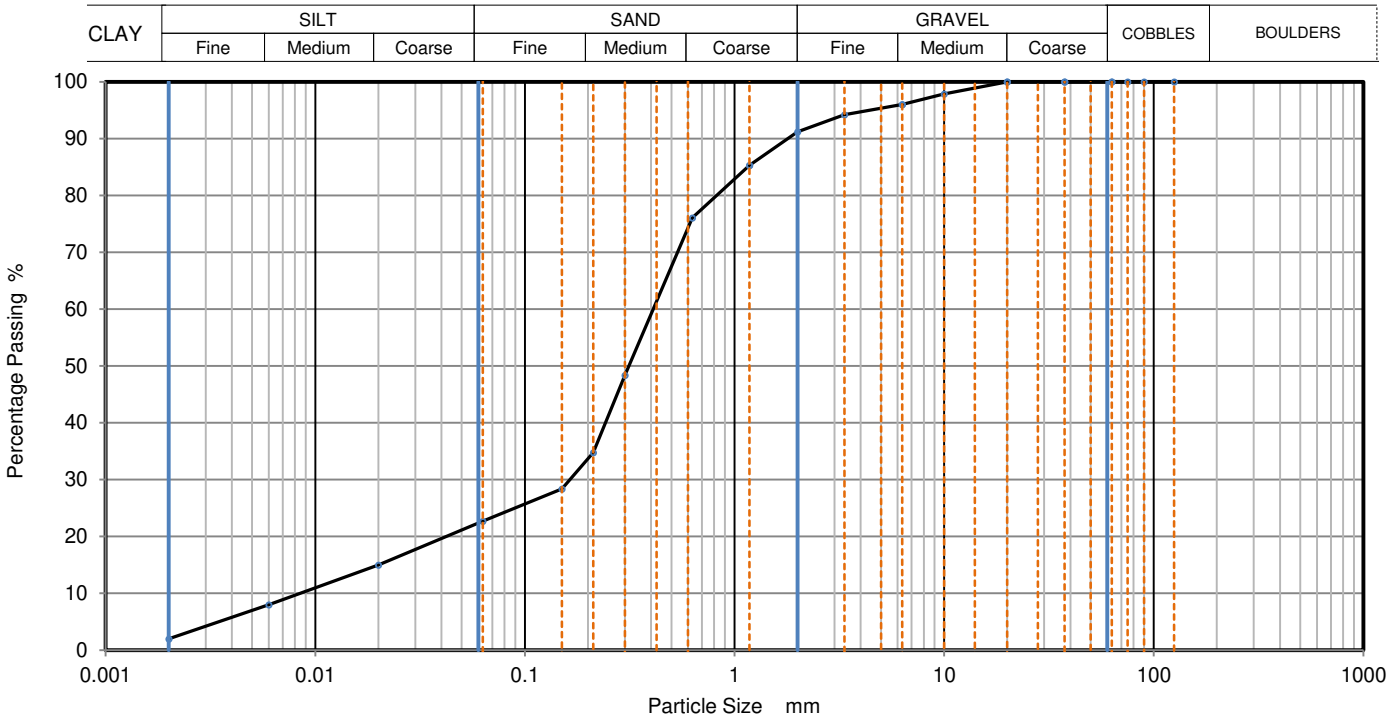
Grading Analysis		
D100	mm	20
D60	mm	0.912
D30	mm	0.378
D10	mm	0.0176
Uniformity Coefficient		52
Curvature Coefficient		8.9

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SB_06
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	9
Description	Brown gravelly very silty SAND. Occasional shell fragments			Depth, m	22.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	F-QO91AA-ITP3



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	15
90	100	0.0060	8
75	100	0.0020	2
63	100		
37.5	100		
20	100		
10	98		
6.3	96		
3.35	94		
2	91		
1.18	85		
		Particle density	(assumed)
0.63	76	2.70	Mg/m3
0.3	48		
0.212	35		
0.15	28		
0.063	23		

Dry Mass of sample, g	1982

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	8.8
Sand	68.5
Silt	20.4
Clay	2.3

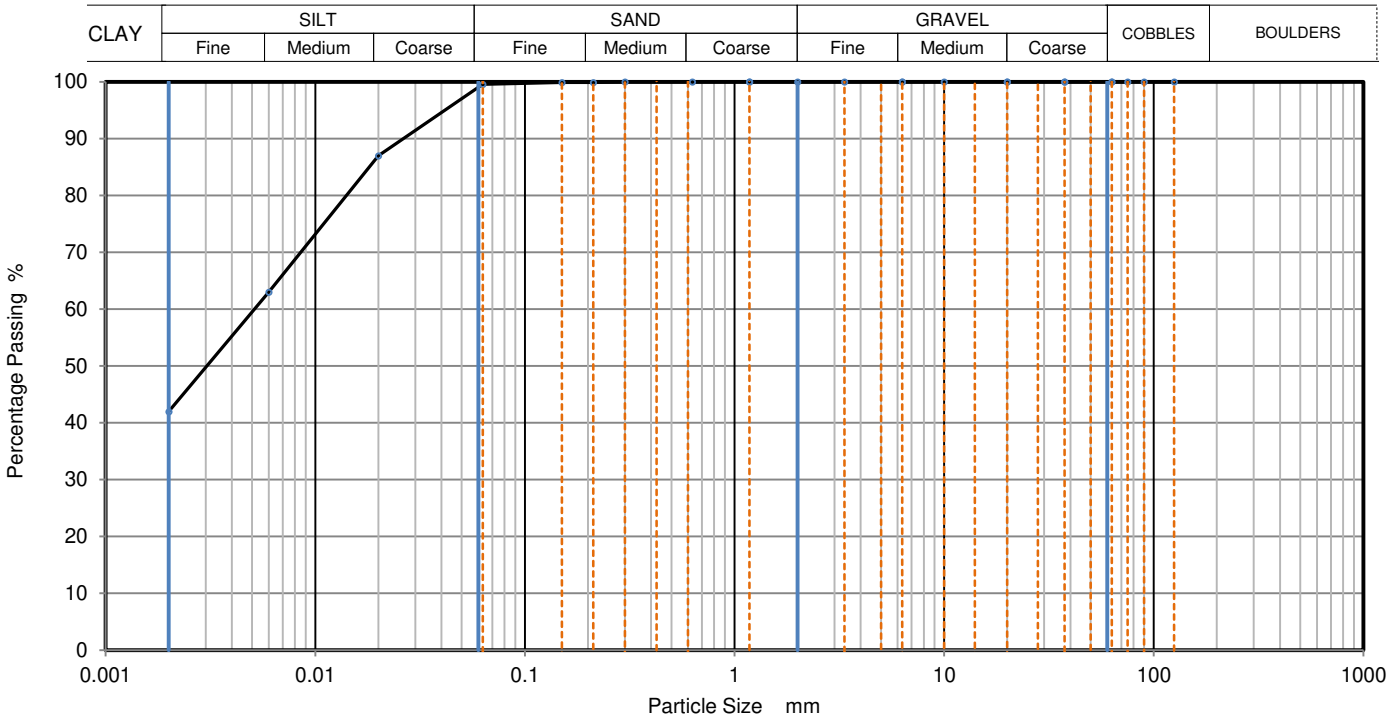
Grading Analysis		
D100	mm	20
D60	mm	0.409
D30	mm	0.164
D10	mm	0.00784
Uniformity Coefficient		52
Curvature Coefficient		8.4

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

FUGRO	**Particle Size Distribution**			Project No.	G190016U
				Hole	OT_SPT_02
Project Name	SZC 2019 Offshore Ground Investigation			Sample No.	2
Description	Brown slightly sandy CLAY			Depth, m	53.00
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS EN ISO 17892-4:2016 Clauses 5.2 and 5.4			KeyLAB ID	OT_SPT_02_C2



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	87
90	100	0.0060	63
75	100	0.0020	42
63	100		
37.5	100		
20	100		
10	100		
6.3	100		
3.35	100		
2	100		
1.18	100		
		Particle density (assumed)	
0.63	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	100		
0.063	100		

Dry Mass of sample, g	442

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.0
Sand	0.4
Silt	57.7
Clay	41.9

Grading Analysis		
D100	mm	2
D60	mm	0.00506
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS EN ISO 17892 unless noted below

Date printed	Figure number	
16/01/2020		

Summary of Fines Content (<75µm) Results

Summary of Fines Content (<75µm) Results

	R□□	□□□	□□□□	D□□□r□□□□□	□□□□□□Dr□M□□□ □	□□r□□□□□□□□□□□□ (<75µm) □	R□□ □r□□
			D				
			D				
			D				
			D				

M□□□□d

□□□□□	D□□□□r□□□□d	□□□□r□□□□ □□□ □□r	□□□□□□□□ □□□ □□r

Summary of Fines Content (<75µm) Results

Summary of Fines Content (<75µm) Results

	R□□	□□□	□□□□	D□□□r□□□□□□	□□□□□□□Dr□□M□□□□ □	□□r□□□□□□□□□□□□□□□□ (<75µm) □	R□□ □r□□
□ □□□□□□ □□	□□	□□□□□□	D	□r□□ □□□□□□□□□□□□A□D	□□□□□□□	□□□□	
□ □□□□□□ □□	□□	□□□□□□	D	□r□□□□□r□□□□□□□□□□A□D	□□□□□□□	□□□□	
□ □□□□□□ □□	□□	□□□□□□	D	□r□□ □□□□□□□□□□A□D	□□□□□□□	□□□	
□ □□□□□□ □□	□□	□□□□□□	D	□r□□ □□□□□□□□□□A□D □□ □□□□□□□□□□ □r□□□ □□□□	□□□□□□□	□□□	

M□□□□d

□□□□□□□□r□□r□ □d□□□□□□□r□□□□□□rd□□□□□□ □□□A□□M□D□□□□□□□M□□□□d□A□□□□□□□d□□□□□□□□□□□□□□□d□□□□r□ □□□

□ □□□□□ A□□dr□□□ □□□□□□□□□r□□□d□□□r□ □□□d□d□r□□□□□□	D□□□□□r□□□□d □□□□□□□□□□□□	□□□□r□□□ □□□ □□r	□□□□□□□□ □□□ □□r

Summary of Fines Content (<75µm) Results

