



SMEAHEIA

Smeaheia Site Preparation - Study Geotechnical field report - Onshore

REPORT

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ORIGINATOR:	NORCONSULT NORGE AS – Brynjar Øye
COMMENTS:	Report describing the results from geotechnical field investigations on land in Austrevågen.

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Equinor Energy AS

► **Smeaheia Site Preparation - Study**

Geotechnical field investigations - Onshore

Assignment no.: **52308179** Document no.: **E316-NL-Q-RY-00001** Version: **02** Date: **2024-10-23**



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Key-info	Explanation	
Key words	Site investigation report	
County	Vestland	
Municipality	Øygarden	
Location	Austrevågen, Sture	
Coordinate system	Euref89 UTM zone 32	
Elevation system	NN2000	
Project coordinates	North: 6726980	East: 273080

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► **Summary**

Norconsult Norge AS has carried out geotechnical field investigations in relations to ongoing work with the site preparation study as part of the "Civil 1" part of the Smeaheia project. The area consists of a rockfill in the Austrevågen bay, south of the Sture terminal in Øygarden municipality.

In total, 63 total soundings have been carried out. The soundings show firm conditions all the way from the surface to bedrock level.

Bedrock has been registered at depths of up to 44 meters. Bedrock is visible on the surface in the areas round the site, indicating that the rock surface is steep and uneven.

During the total soundings the field crew encountered problems with the penetration of the soil and in particular the bedrock, leading to a substantial amount of drill string breakages and loss of drilling equipment. Additionally, some sounding where stopped to avoid losing equipment when high torque was registered on the drill rig. At some locations the soundings stopped due to the drilling rig not being able to penetrate deeper.

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Contents	Format	Scale	Drawing nr.
Boring plan – Conducted investigations – General layout	A1	1:1000	001
Total Sounding	A4/A3	1:250	101-162

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1 Introduction

Norconsult Norge AS has been contracted by Equinor Energy AS to conduct geotechnical field investigations in relations to ongoing work with the site preparation study as part of the "Civil 1" part of the Smeaheia project. The Smeaheia project aims to build a CO₂ terminal to receive CO₂ from ships for storage under the North Sea. The project site is located in Austrvågen, south of the existing Sture-terminal, in Øygarden municipality, see Figure 1.



Figure 1: Project location.

2 Purpose

This report is a site investigation report summarising results from the geotechnical survey. Geotechnical parameter-interpretation, consulting and design are not treated in this report.

The field results, in combination with the laboratory-analysis, should be a design-basis for geotechnical design and assessments further on in the project.

3 Historical aerial photographs

The surveyed area was originally a part of the Austrevågen bay. The bay was filled in with blasted rock from the construction of caverns during the construction of the Sture terminal in the 80s and 90s. Before the bay was filled in, bedrock was visible along the shoreline. Aerial photos showing the situation before and after the filling of the bay is shown on Figure 2.



Figure 2: Aerial photos from 1978 and 2020. Today's fill front shown with blue line (Finn.no).

4 Field work

During the field investigations, the following results were produced:

- 62 total soundings to bedrock or firm ground

During the total soundings the field crew encountered problems with the penetration of the soil and in particular the bedrock, leading to a substantial amount of drill string breakages and loss of drilling equipment. Additionally, some sounding where stopped to avoid losing equipment when high torque was registered on the drill rig. At some locations the soundings stopped due to the drilling rig not being able to penetrate deeper.

The field crew commented that the bedrock was abnormally firm, leading to increased equipment wear and loss of equipment. Because of this, the Geotech 607 drill rig was replaced by a slightly larger Geomachine GM8 drill rig. Even though the drill rigs have identical specifications when it comes to drilling and total soundings, the Geomachine seemed to fair slightly better. While the Geotech 607 is also considered to be a large geotechnical survey rig, this is likely due to the GM8s larger self-weight (roughly 10t vs 7t). The larger rig largely experienced the same difficulties, but to a slightly lesser extent.

An attempt was made using a larger drilling head, 76mm vs. 54mm as is standard, to reduce friction on the string in the fill. This was unsuccessful and a standard 54 mm drilling head was used for the rest of the soundings.

The positions of each borehole and associated height are measured using CPOS-corrected GPS. The table below sums up information from the field work regarding to positions, investigation methods and drilling depths from total soundings. The bore plan of executed ground investigations number 001 gives the same overview.

Table 1: List of boreholes

Borehole	Euref89 UTM zone 32, NN2000			Method	Drill depth (TOT)	
	X (North)	Y (East)	Z (Height)		Soil deposit [m]	Rock [m]
101	6727213,8	272910,4	5,9	TOT	7,9	3,0
102	6727205,8	272939,9	5,5	TOT	9,8	
103	6727186,8	272962,9	5,6	TOT	19,3	3,0
104	6727184,9	272925,9	5,8	TOT	18,5	3,0
105	6727168,5	272951,6	5,7	TOT	24,5	3,0
106	6727151,7	272976,0	5,9	TOT	18,6	
107	6727130,2	272996,1	5,9	TOT	25,8	3,0
108	6727116,9	273026,2	5,5	TOT	16,4	
109	6727159,7	272909,7	5,8	TOT	6,3	3,1
110	6727142,7	272934,5	5,9	TOT	17,8	3,0
111	6727126,7	272959,1	5,9	TOT	25,0	3,0
112	6727110,2	272984,0	5,7	TOT	31,9	3,0
113	6727093,7	273009,0	5,3	TOT	27,3	2,5

Borehole	Euref89 UTM zone 32, NN2000			Method	Drill depth (TOT)	
	X (North)	Y (East)	Z (Hight)		Soil deposit [m]	Rock [m]
114	6727076,5	273033,5	5,2	TOT	29,6	
115	6727059,6	273058,6	5,0	TOT	14,4	3,0
116	6727043,9	273080,5	4,7	TOT	15,3	3,0
117	6727119,0	272916,8	6,0	TOT	3,0	3,0
118	6727102,4	272942,2	5,7	TOT	12,2	3,0
119	6727084,7	272967,6	5,4	TOT	21,2	3,4
120	6727069,3	272991,7	5,1	TOT	33,3	
121	6727052,7	273017,0	5,0	TOT	27,1	
121B	6727036,2	273032,5	4,5	TOT	24,0	
122	6727019,1	273066,5	4,2	TOT	31,4	
123	6726998,1	273081,0	4,5	TOT	24,4	
124	6726979,6	273110,3	3,2	TOT	26,5	
125	6727076,6	272925,9	5,7	TOT	20,9	
126	6727052,3	272956,8	5,2	TOT	7,3	3,0
127	6727044,2	272975,3	4,9	TOT	19,1	3,0
128	6727024,8	272998,5	4,5	TOT	34,2	
129	6727023,4	273023,8	4,4	TOT	38,7	2,4
130	6726984,5	273055,2	4,0	TOT	27,1	
131	6726977,0	273075,1	4,0	TOT	36,8	
132	6726961,1	273100,1	3,8	TOT	27,2	
133	6726944,0	273125,4	3,6	TOT	25,5	
134	6726928,4	273149,9	3,7	TOT	29,5	3,1
135	6726901,7	273176,1	4,0	TOT	30,4	
136	6726921,6	273217,1	4,2	TOT	43,9	1,2
137	6726901,4	273231,5	4,0	TOT	19,3	3,0
138	6726978,8	273089,8	3,6	TOT	24,4	
139	6726892,9	273198,7	3,8	TOT	39,6	
140	6726878,6	273224,4	3,8	TOT	30,5	3,1
141	6727036,0	272933,7	5,3	TOT	26,7	
142	6727019,2	272959,1	4,9	TOT	12,9	3,0
143	6727002,4	272984,0	4,8	TOT	36,8	

Borehole	Euref89 UTM zone 32, NN2000			Method	Drill depth (TOT)	
	X (North)	Y (East)	Z (Height)		Soil deposit [m]	Rock [m]
144	6726986,2	273008,4	4,6	TOT	24,5	
145	6726970,5	273034,2	4,7	TOT	36,7	2,8
146	6726953,4	273059,6	4,5	TOT	41,1	
147	6726936,0	273084,5	4,0	TOT	26,5	2,3
148	6726919,5	273108,3	3,9	TOT	34,2	
149	6726904,2	273134,2	3,7	TOT	23,9	
150	6726886,5	273157,5	3,8	TOT	40,4	
151	6726876,9	273173,9	3,6	TOT	30,2	2,5
152	6726855,6	273209,6	3,6	TOT	30,9	
153	6726994,2	272942,6	4,3	TOT	28,0	3,1
154	6726875,2	273123,3	3,6	TOT	7,6	3,0
155	6726861,0	273141,5	3,4	TOT	49,5	
156	6726844,5	273165,8	3,4	TOT	29,6	1,3
157	6726828,1	273192,0	3,7	TOT	39,4	0,8
158	6726799,1	273207,7	3,7	TOT	30,0	2,7
159	6726961,5	272938,2	3,3	TOT	22,1	
160	6726816,2	273151,6	3,6	TOT	5,6	3,0
161	6726804,4	273174,9	3,4	TOT	22,6	3,1
162	6727213,8	272910,4	5,9	TOT	20,4	

TOT: Total sounding

4.1 General information regarding the field investigations

The field investigations were conducted by Norconsult Boretteknikk AS. General information regarding the completed field work is summed up in Table 2.

Table 2: General information field work

Field work	
Date of execution	Weeks 25 – 27 and 33 – 34, 2024
Crew leader	Svein Halvard Hagerup and Joel Lindgren
Type of drilling rig	Geotech 607 and Geomachine GM8
Relevant standards	Ref. [1], [2], [3], [4], and [5]
Results	Drawings 001, 101-162

5 Ground conditions

The results from the field investigations are shown in boring location plan 001, and on sounding profiles on drawings 101-162.

Appendix A gives an explanation to the geotechnical plan- and profile drawings. Appendix B gives an explanation to the profiles from total soundings.

Note! The information from the field and laboratory investigations are strictly only valid in the investigated positions. Deviations in the ground conditions may occur locally, and the results must therefore not be used uncritically.

5.1 Total soundings

The completed total soundings generally show very firm conditions all the way from the surface to bedrock. Due to the previously described difficulties with difficult drilling conditions bedrock was only successfully registered (minimum 3m drilling depth in bedrock) in about half of the completed soundings. Most of the remaining soundings were stopped at firm ground assumed to be bedrock, but it is not certain. Some drillings stopped earlier due to breakage.

Bedrock has been registered at depths of up to 44 meters. Bedrock is visible on the surface in the areas round the site, indicating that the rock surface is steep and uneven.

The considerations of the field crew are described in Table 1.

Table 3: *Comments from the bore log and comments given by field team (translated from Norwegian).*

Borehole	Field comments
101	Performed reaming of borehole.
102	Drill string breakage. Loss of 12 rods and drilling head. Redrilled, stopped at firm ground to avoid breakage.
103	Performed reaming of borehole.
104	-
105	Performed reaming of borehole.
106	Breakage in drilling head after 10cm penetration in assumed bedrock.
107	Performed reaming of borehole. Varying penetration rate in bedrock due to high torque.
108	Performed reaming of borehole. Drilling head stuck, which lead to joint breaking and loss of drilling head.
109	Performed reaming of borehole.
110	Performed reaming of borehole.
111	-
112	-
113	Drill string breakage. Loss of 1 rod and drilling head.
114	-
115	-
116	Performed reaming of borehole.
117	-

118	Performed reaming of borehole.
119	-
120	-
121	Performed reaming of borehole. Drill string breakage at 27m due to getting stuck in rock or bedrock.
121B	Redrilling. Stop at 24m. Unable to penetrate.
122	-
123	Stopped because of risk of drill string breakage caused by high torque.
124	Some friction in rockfill. Stop caused by being unable to penetrate.
125	Attempted to stop because of risk of drill string breakage caused by high torque. Drill string breakage. Loss of 1 rod and drilling head.
126	Performed reaming of borehole.
127	Performed reaming of borehole.
128	Stopped because of risk of drill string breakage caused by high torque.
129	-
130	Stopped because of risk of drill string breakage caused by high torque.
131	Drill string breakage. Loss of 1 rod and drilling head.
132	Stopped because of risk of drill string breakage caused by high torque.
133	Drill string breakage.
134	-
135	Performed reaming of borehole.
136	-
137	Performed reaming of borehole.
138	Performed reaming of borehole. Stopped at most likely bedrock. Unable to penetrate.
139	Stopped because of risk of drill string breakage caused by high torque.
140	-
141	Drill string breakage.
142	-
143	Performed reaming of borehole. Stopped at hard ground/rock/bedrock. Unable to penetrate.
144	Stopped because of risk of drill string breakage.
145	Drill string breakage. Loss of 8 rods and drilling head.
146	High rod friction due to rockfill. Dark drilling mud visible on drill string after drilling.
147	-
148	-
149	-
150	Performed reaming of borehole. Drill string breakage or drilling rods unscrewing due to friction. Loss of 3 rods plus drilling head
151	-

152	Deviations from standard procedure. Used percussion and flushing continuously. Stopped due to slanted bedrock.
153	-
154	Performed reaming of borehole.
155	Deviations from standard procedure. Used percussion and flushing continuously. Drill string breakage. Loss of 7 rods plus drilling head.
156	-
157	Drill string breakage. Loss of 10 rods and drilling head.
158	-
159	Performed reaming of borehole. Stopped at rock/bedrock. Unable to penetrate.
160	Performed reaming of borehole.
161	Deviations from standard procedure. Used percussion and flushing continuously.
162	Performed reaming of borehole. Drilling stopped at most likely bedrock. Unable to penetrate. Drilled with percussion and flushing for 10 minutes with no progress. Used larger drilling head (76mm)

Reaming of the boreholes performed by retracting the drilling string when adding rods, and redrilling to previous level in order to reduce friction before continuing the sounding.

6 References

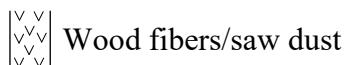
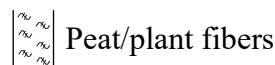
- [1] Statens vegvesen, Håndbok R211 Feltundersøkelser, Statens vegvesen, 1997.
- [2] Norsk geoteknisk forening, Melding nr. 9 - Veiledning for utførelse av totalsondering. Revisjon 1, 2018., Norsk geoteknisk forening, 1994.
- [3] Norsk geoteknisk forening, Melding nr. 5 - Veiledning for utførelse av trykksøndering. Revisjon 3, 2010, Norsk geoteknisk forening, 1982.
- [4] Norsk geoteknisk forening, Melding nr. 6 - Veiledning for måling av grunnvannstand og poretrykk. Revisjon 2, 2017., Norsk geoteknisk forening, 1989.
- [5] Norsk geoteknisk forening, Melding nr. 11 - Veiledning for utførelse av prøvetaking, Norsk geoteknisk forening, 2013.

○ Simple Sounding	● Weight Sounding	▽ Rotary Pressure Sounding
◊ Rock Surface Determination	⊕ Total Sounding	▽ Cone Penetration Testing
+ Vane Boring	▼ Ram Sounding	⊖ Standard Penetration Test
□ Test Pit	○ Tube/Auger Sampling	□ Test Pit and Sampling
◐ Water Sampling	● Ground Water Level	⊖ Pore Pressure Measurement
⊗ Permeability Measurement	☒ Test Loading	■ Settlement Testing
○ Electric Sounding	^^ Exposed Rock	

$\frac{-18.2}{-35.4}$ 17.2 + 2.9

Above line : Ground, sea bed or river bottom level.
 Outside line : Depth drilled in soil + depth drilled in rock.
 Below line : Assumed rock level, ~ if rock is not found.

Water content	(w)	●	Porosity	(n)
Fall cone liquid limit	(w _F)	▼	Void ratio	(e)
Plasticity limit	(w _p)	✚	Sensitivity	(S _t)
Liquid limit	(w _L)	✚	Udrained shear strength (s _u)	
Unit weight	(γ)		Fall cone	▽
Dry unit weight	(γ _d)		1- axial compression test	(15) (5) () = axial deformation at failure (10)
Unit weight of solid particles	(γ _s)		Torvane	*
			Penetrometer	□



Smeaheia Site Preparation - Study

Equinor ASA

Geotechnical Symbols

Norconsult

Scale	Date 2024-09-02
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Prepared by
BryOEy

Approved by
GuMjo

Appendix No.
A

Project No.
52308179

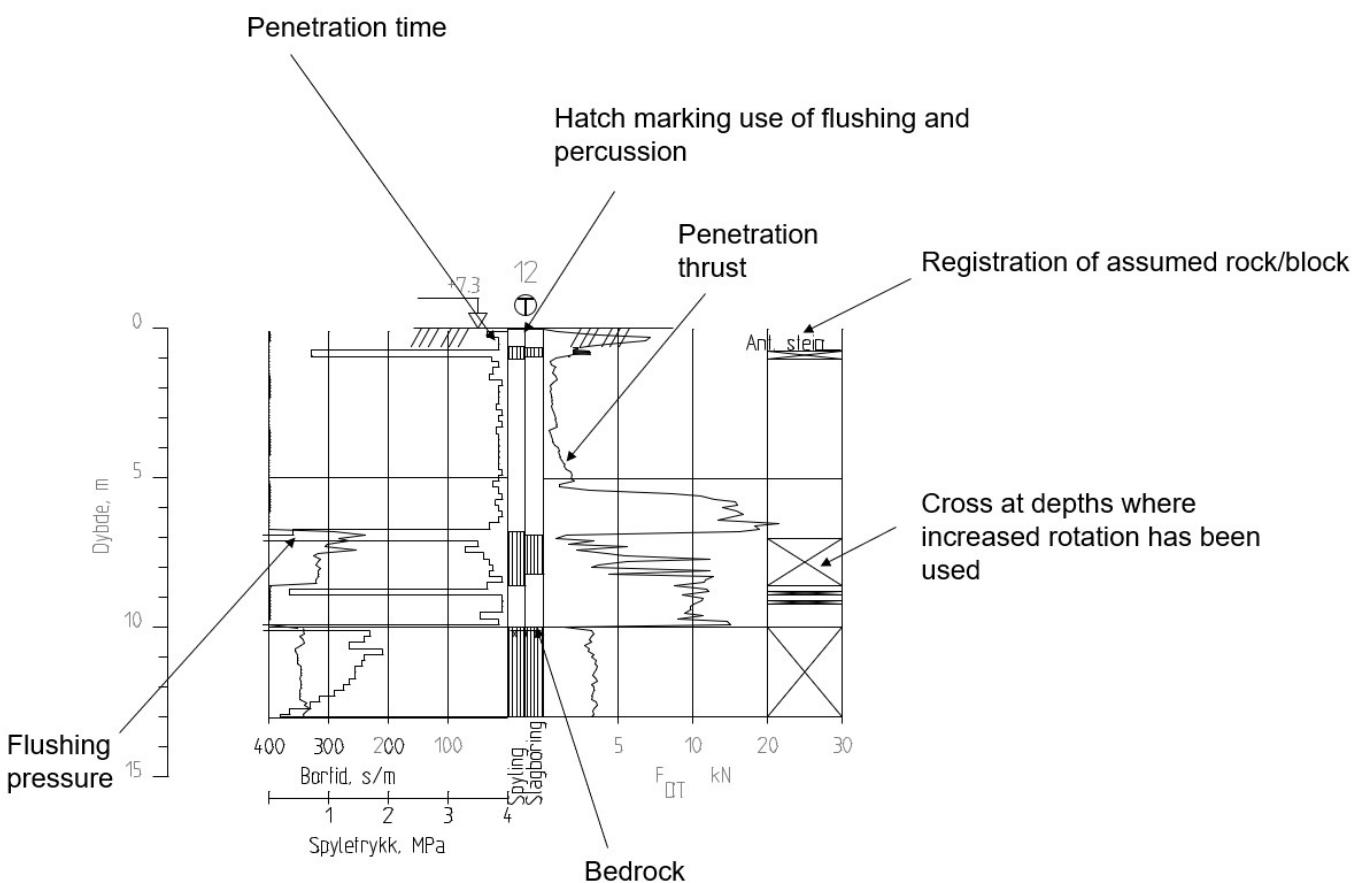
Total sounding

Equipment: Ø 57 mm drill bit with non-return valve.
Ø 44 mm drill rods.

Without hydraulic hammer: Constant rotation 25 revs/min.
Penetration 3 m/min.
If possible, drilling is performed without flushing water.
If further penetration is not possible, flushing with water is used.
If penetration again is stopped, the rotation speed may be increased
before hydraulic percussion hammer is used.

With hydraulic hammer: Constant rotation 75 revs/min.
With water flushing and percussion.

Presentation: Hatched areas in separate columns indicate depth intervals where water flushing and percussion drilling is used. Graphs for penetration thrust, penetration time and flushing pressure. X in separate column indicates increased rotation speed. Bedrock level indicated with separate symbol.



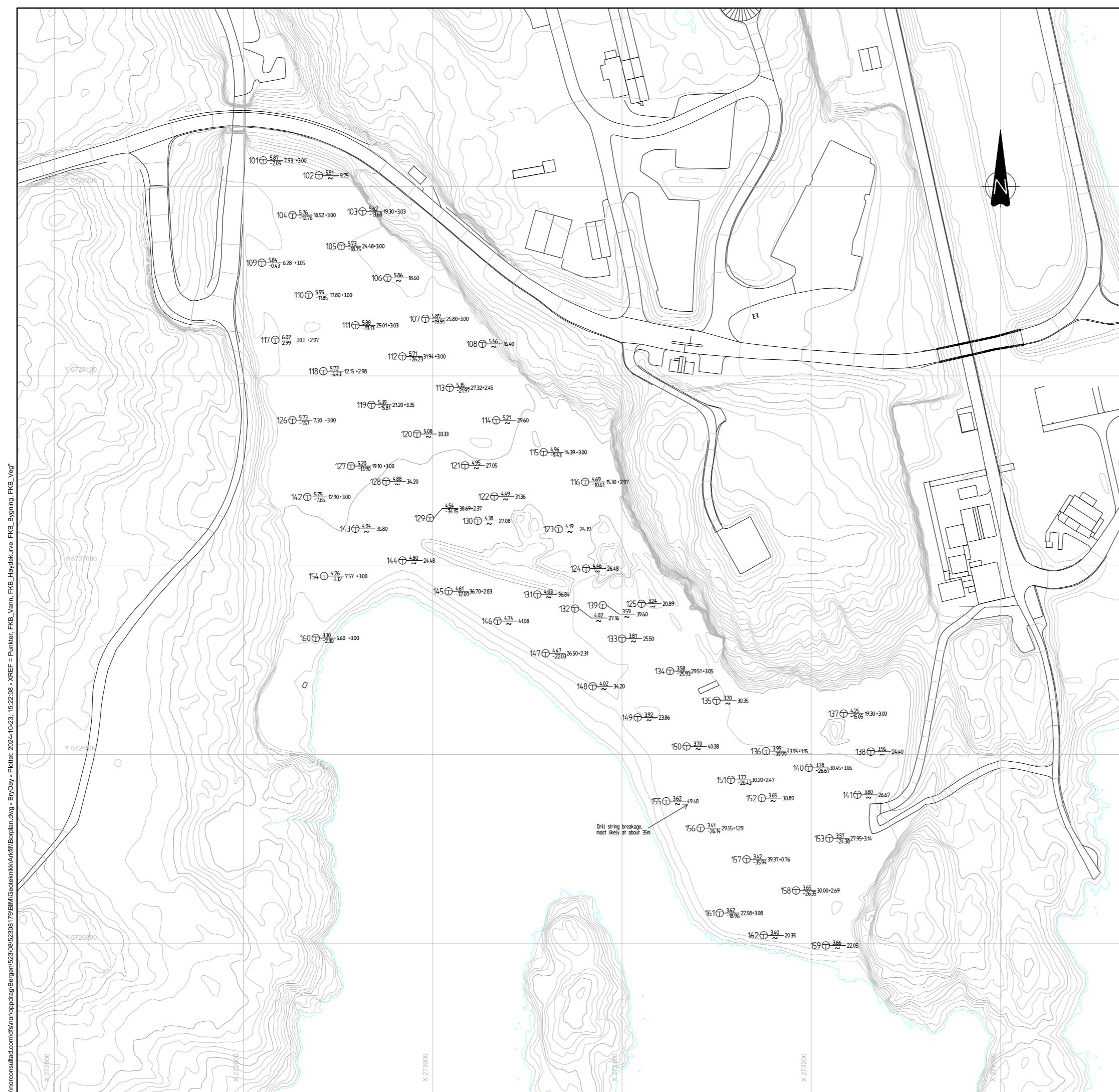
Smeaheia Site Preparation - Study

Equinor ASA

Total sounding Definitions – Procedures and Presentation

Norconsult 

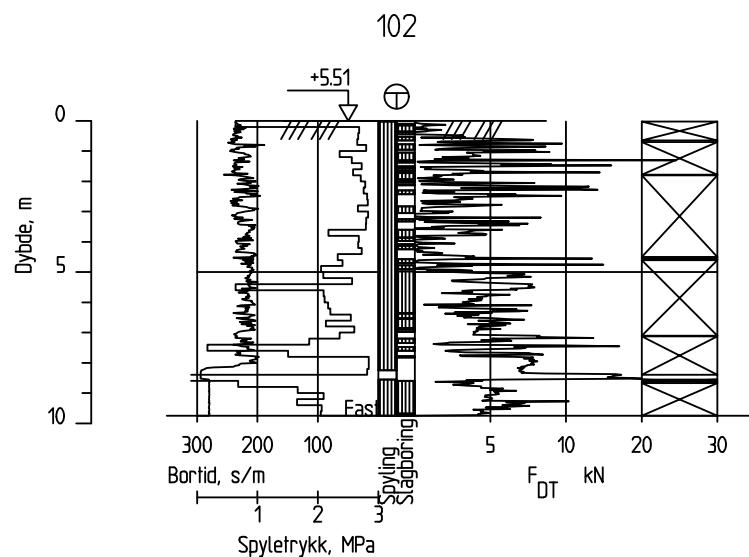
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Appendix No. B	Project No. 52308179



Explanations

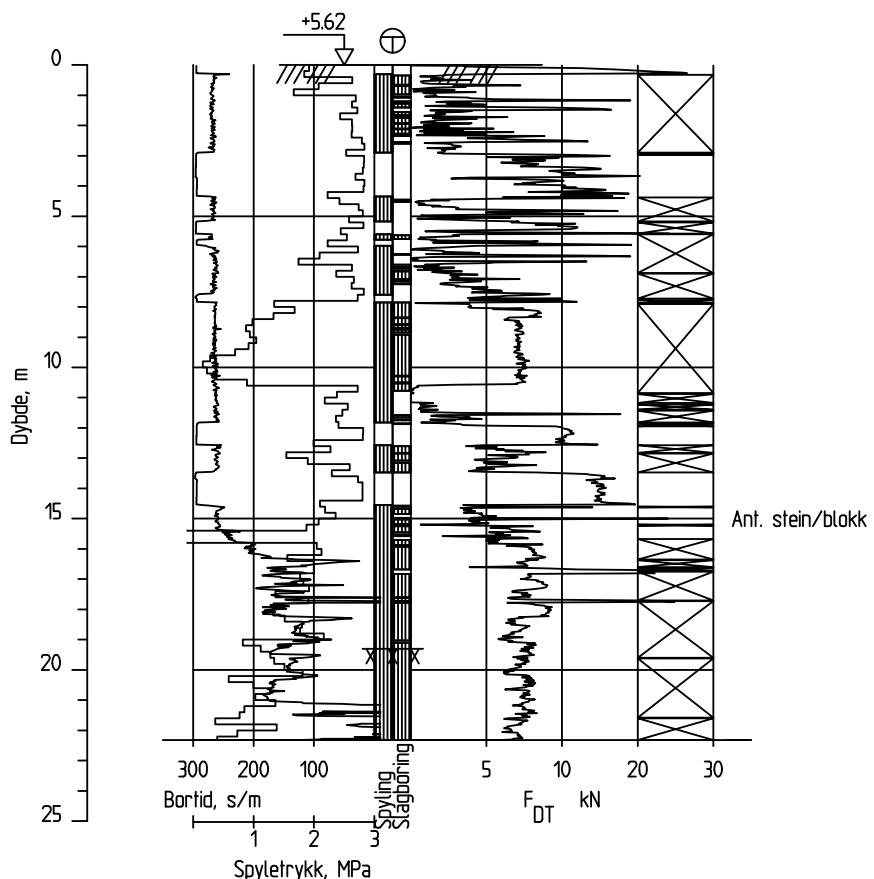
⊕ Total sounding

⊕ Terrain level Drilled depth in soil + drilled depth in bedrock



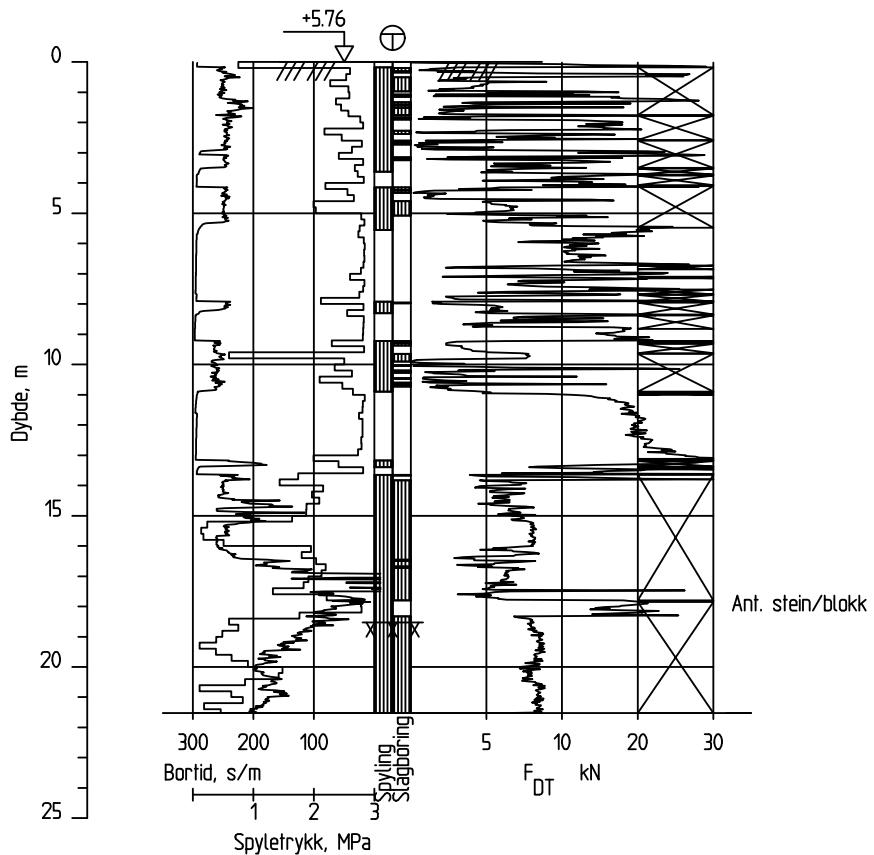
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		SCALE 1:250				
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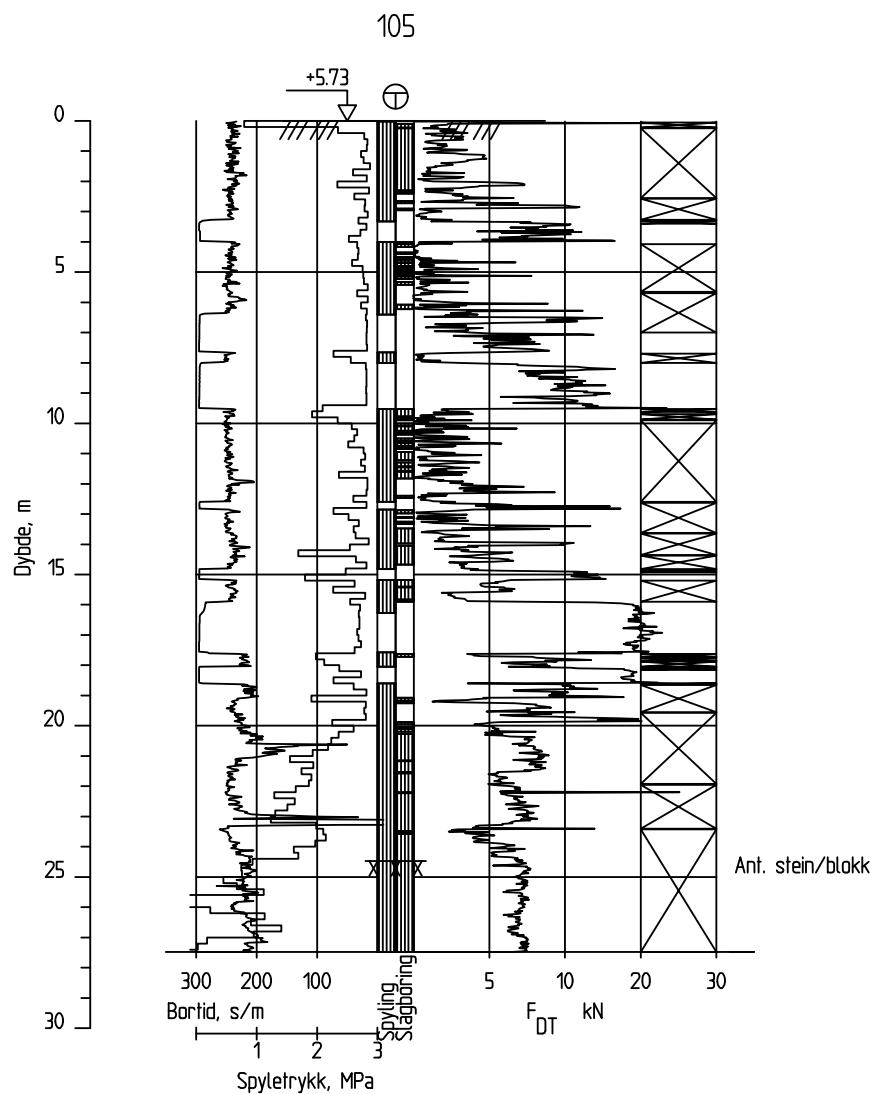


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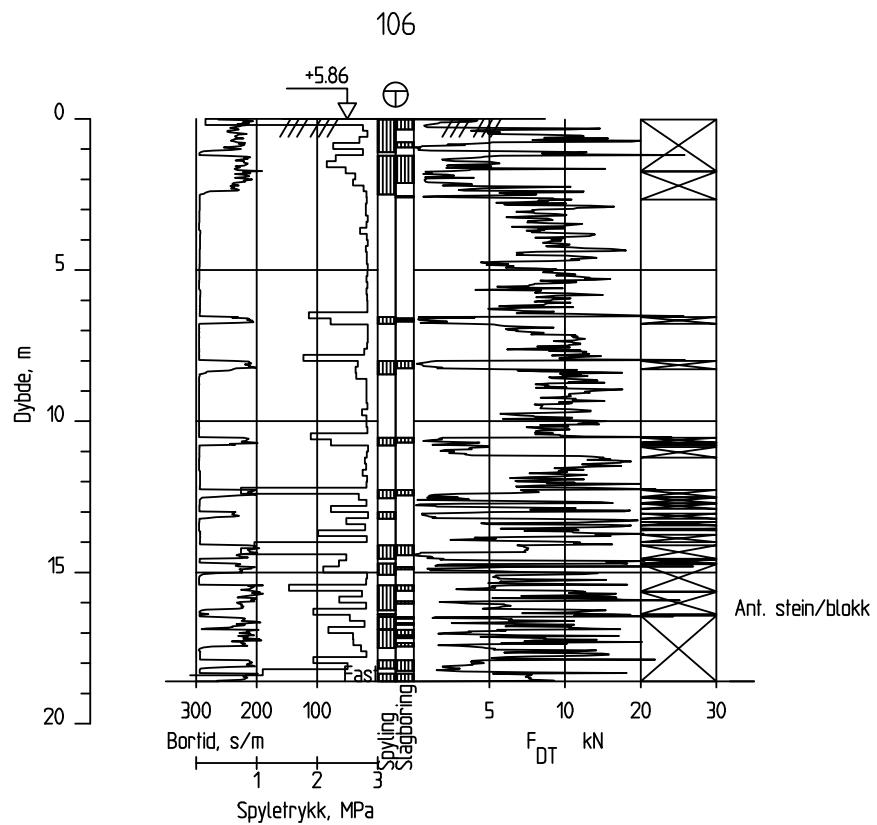
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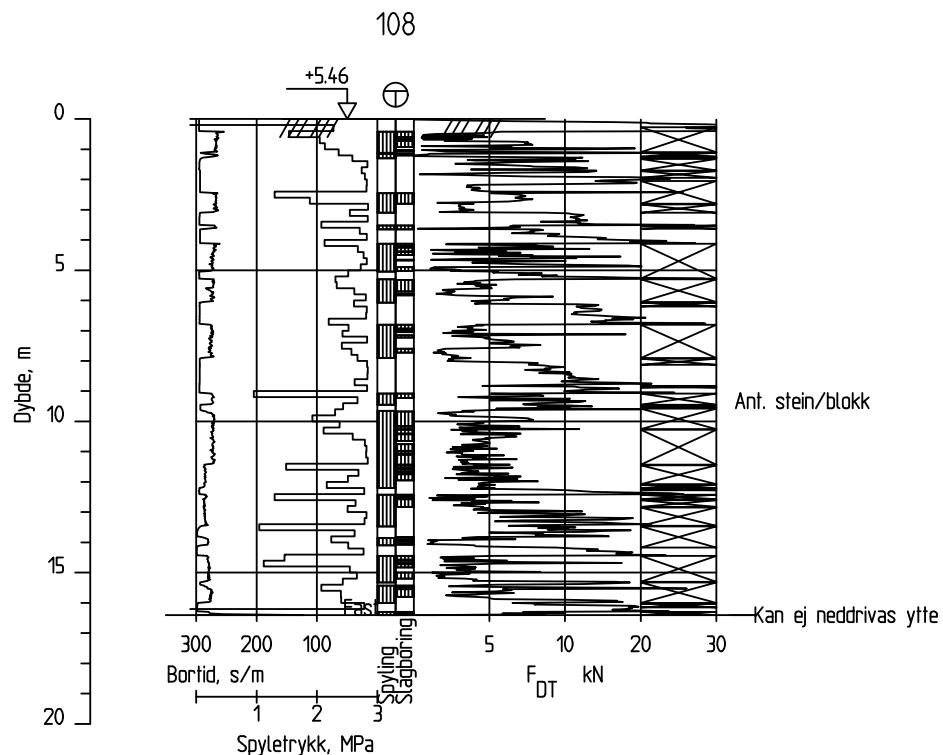
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		AREA/LOCATION Austrevågen	Geotechnical field investigations			
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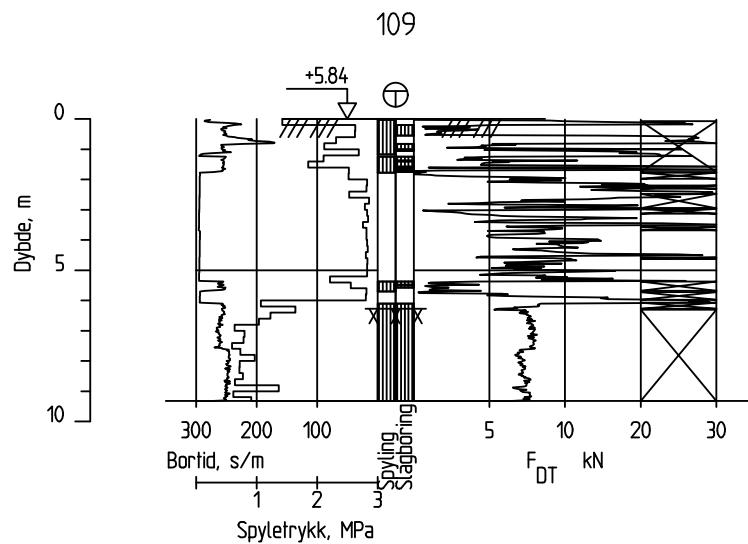
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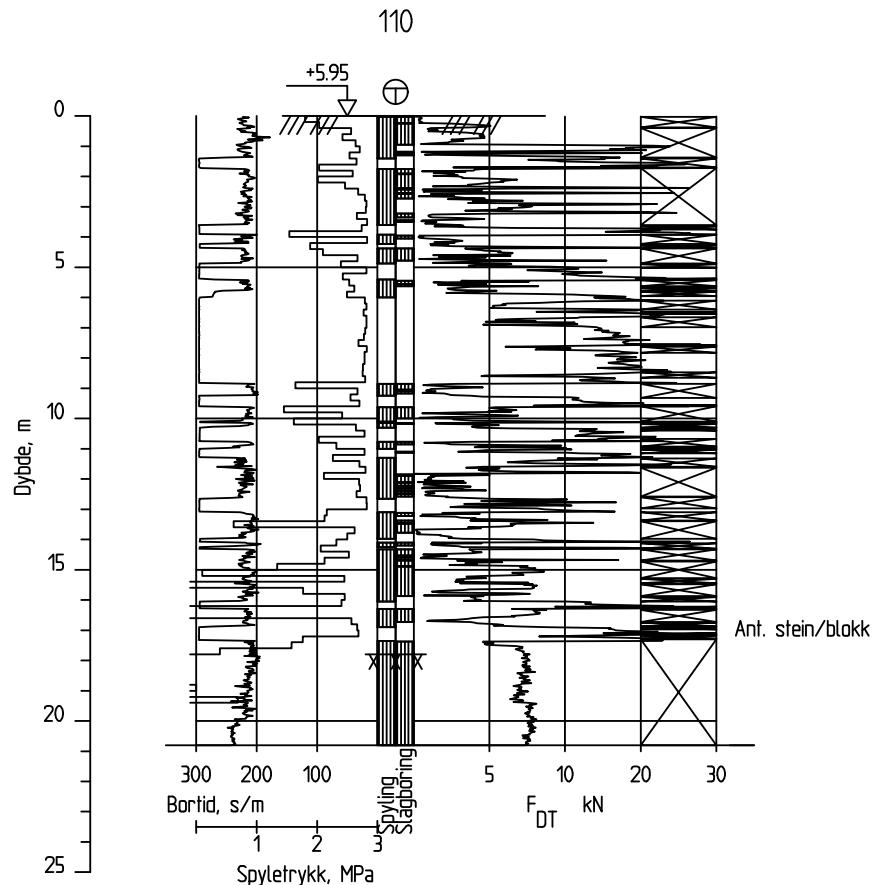
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		106			DISC. CODE
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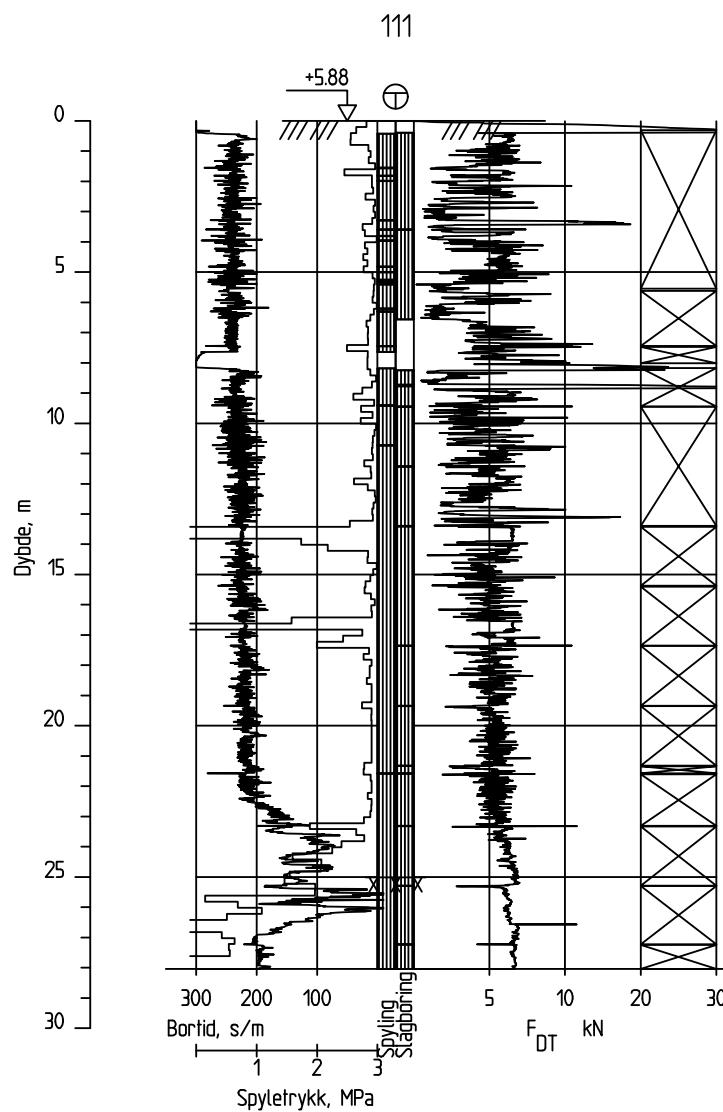
01	2024-08-30	For review			BryOEy	GuMjo	JFS		
Rev.	Date	Reason for issue			Prepared	Checked	Approved		
 equinor		PROJECT NAME		DRAWING TITLE:					
		Smeahela		Smeahela Site Preparation – Study					
		AREA/LOCATION		Geotechnical field investigations					
Austrevågen		Total sounding profile 108							
FORMAT		SCALE							
A4		1:250							
PLANT		SMEAHEIA							
ORIGINATOR NAME		PO. NO	DRAWING NO.:						
 Norconsult		—	E316						
		ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.	SHT. NO.
		108							01



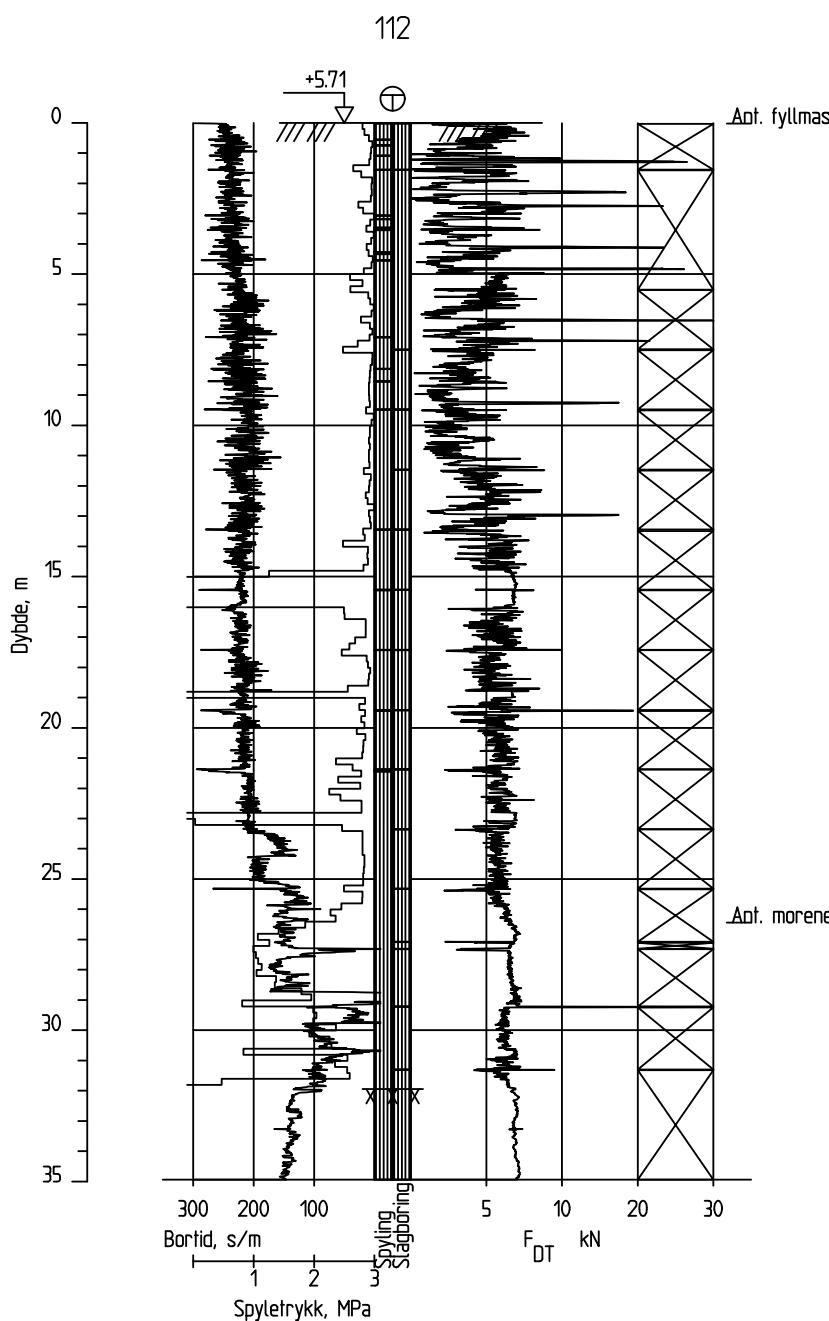
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Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 109			
		SCALE 1:250				
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.: 01	
		Norconsult	ORIGIN. DRW. NO. 109	PROJECT NO	PLANT PR. CODE	ORIG. CODE
					DISC. CODE	DRW. TYPE
					SEQUENCE NO.	SHT. NO.
					REV. NO.	



01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 110			
		SCALE 1:250				
		PLANT SMEAHEIA	ORIGINATOR NAME Norconsult	PO. NO E316	DRAWING NO.: 110	01
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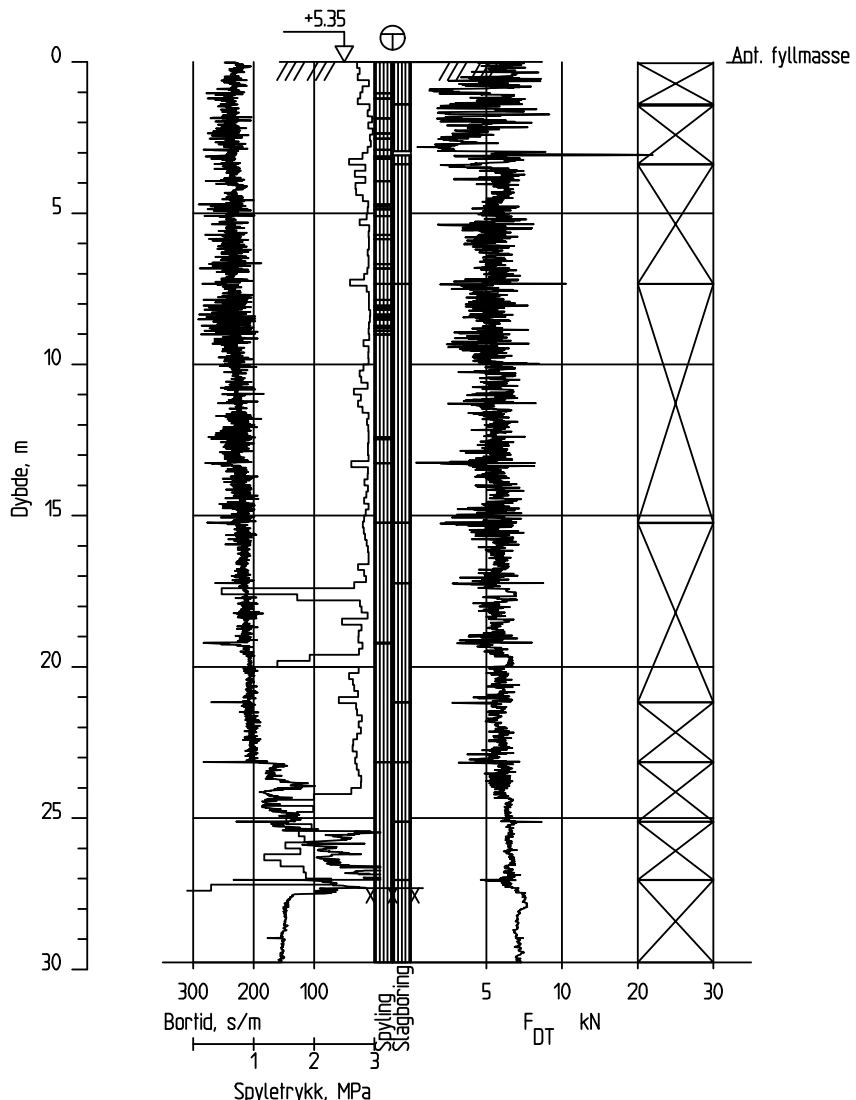


01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
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		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 111			
		SCALE 1:250				
		PLANT SMEAHEIA	ORIGINATOR NAME Norconsult	PO. NO E316	DRAWING NO.: 111	01
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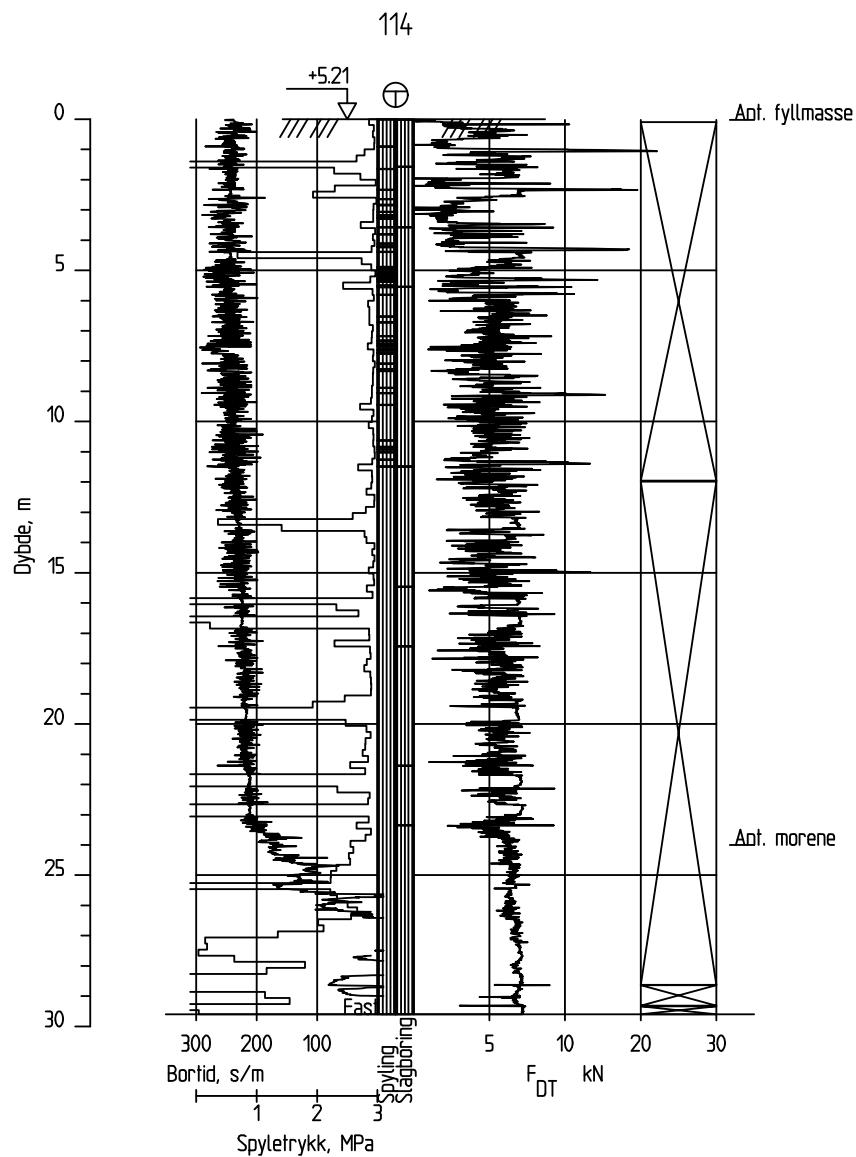


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Rev.	Date	Reason for Issue		Prepared	Checked	Approved		
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		AREA/LOCATION Austrevågen		Geotechnical field investigations				
		FORMAT A4	SCALE 1:250	Total sounding profile 112				
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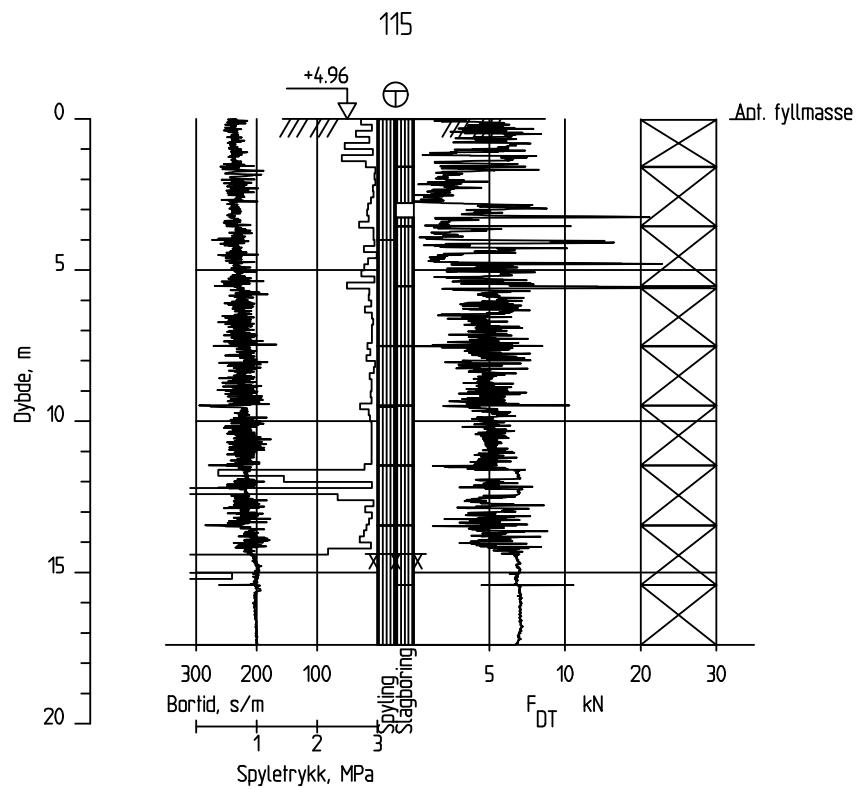
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01	2024-08-30	For review		BryOEy GuMjo JFS					
Rev.	Date	Reason for Issue		Prepared Checked Approved					
 SMEAHEIA		PROJECT NAME: Smeaheia		DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 113					
		AREA/LOCATION: Austrevågen							
		FORMAT: A4		SCALE: 1:250					
		PLANT: SMEAHEIA							
ORIGINATOR NAME: 		PO. NO.: -		DRAWING NO.: E316					
		ORIGIN. DRW. NO.: 113		PROJECT NO.: 113		PLANT PR. CODE: 113		ORIG. CODE: 113	
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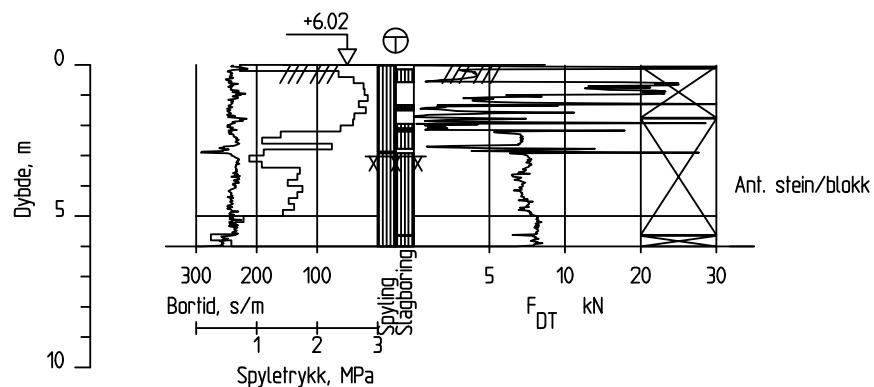


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Rev.	Date	Reason for Issue		Prepared	Checked	Approved		
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		FORMAT A4	SCALE 1:250	Geotechnical field investigations				
		PLANT SMEAHEIA		Total sounding profile 114				
		ORIGINATOR NAME equinor	PO. NO -	DRAWING NO.: E316				01
		Norconsult	ORIGIN. DRW. NO. 114	PROJECT NO.	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE
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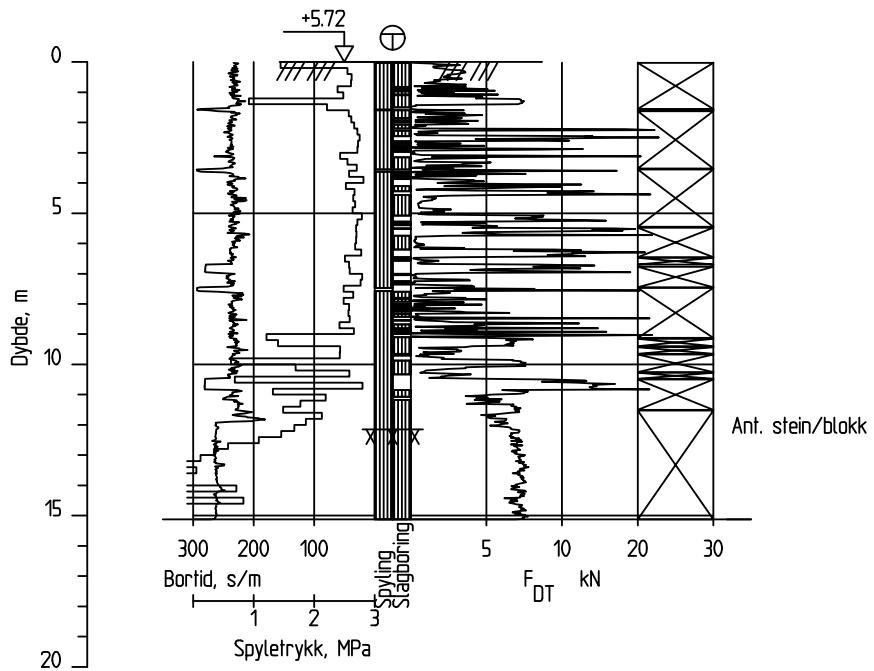


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Rev.	Date	Reason for Issue	Prepared	Checked	Approved
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		AREA/LOCATION: Austrevågen			
PLANT	SMEAHEIA	FORMAT: A4	SCALE: 1:250		
ORIGINATOR NAME	PO. NO	E316	DRAWING NO.:		01
Norconsult	ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE
	115			DRW. TYPE	SEQUENCE NO.
				SHT. NO.	REV. NO.

117

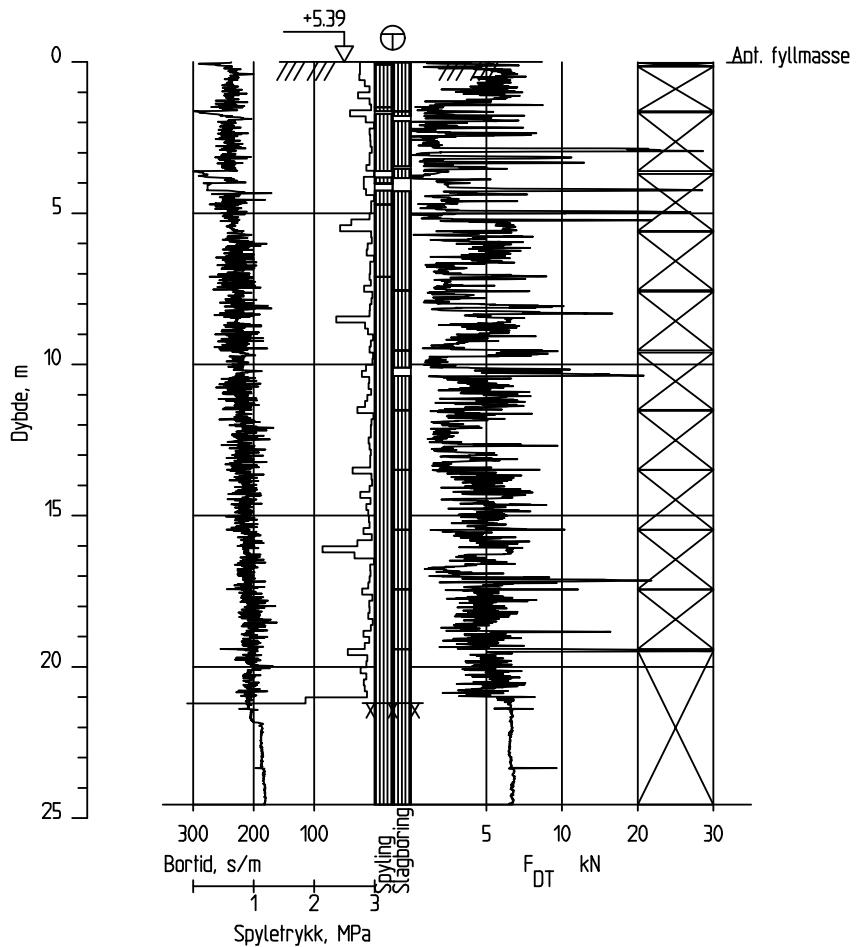


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Rev.	Date	Reason for Issue	Prepared	Checked	Approved
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		PO. NO -	DRAWING NO.: E316		01
		ORIGIN. DRW. NO. 117	PROJECT NO 117	PLANT PR. CODE	ORIG. CODE
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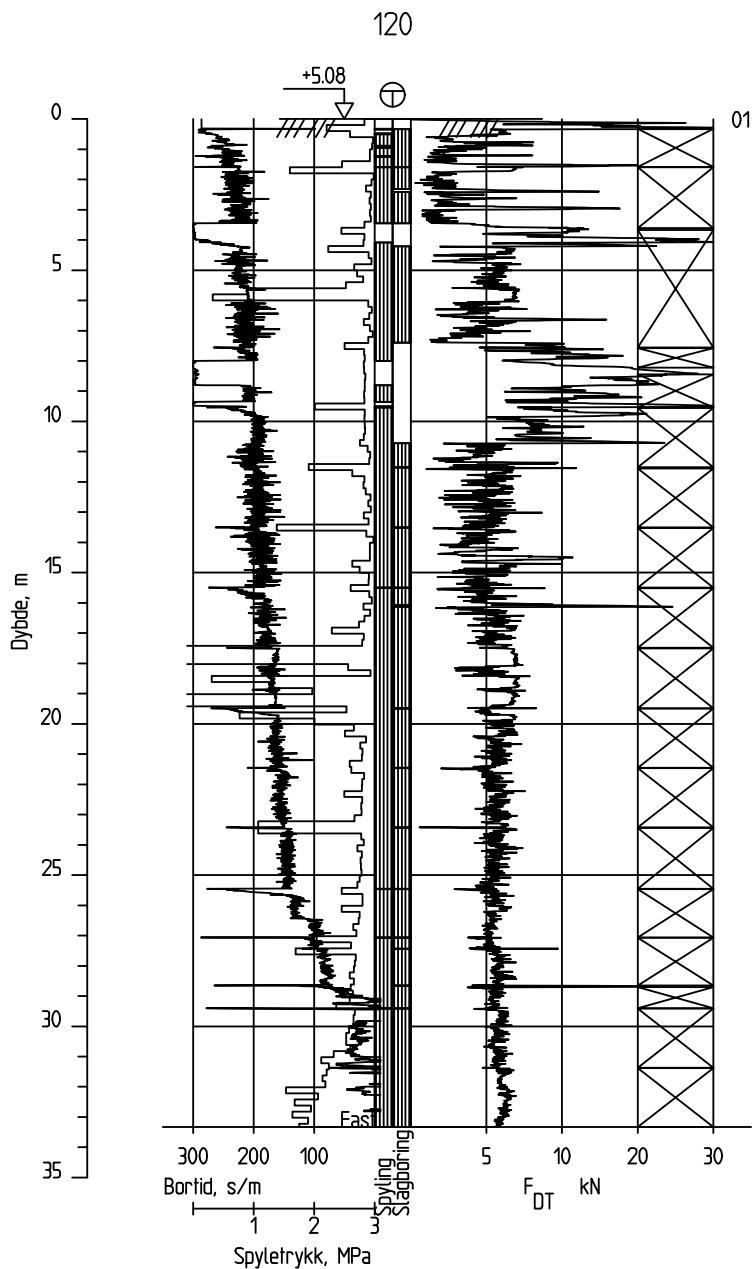


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Rev.	Date	Reason for Issue			Prepared	Checked	Approved			
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		AREA/LOCATION Austrevägen								
		FORMAT A4	SCALE 1:250							
PLANT	SMEAHELA									
		ORIGINATOR NAME	PO. NO	DRAWING NO.:					01	
			-	E316						
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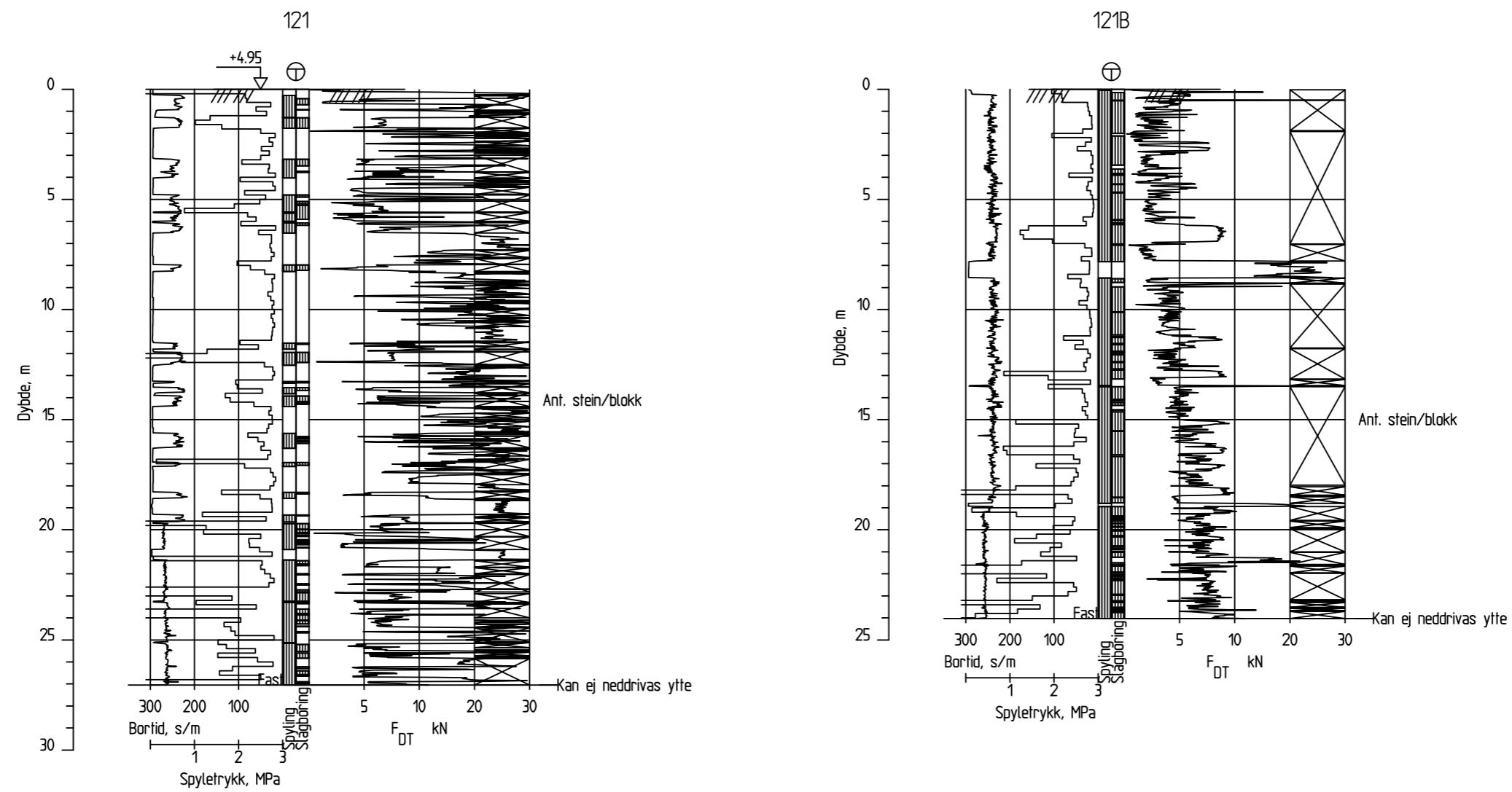
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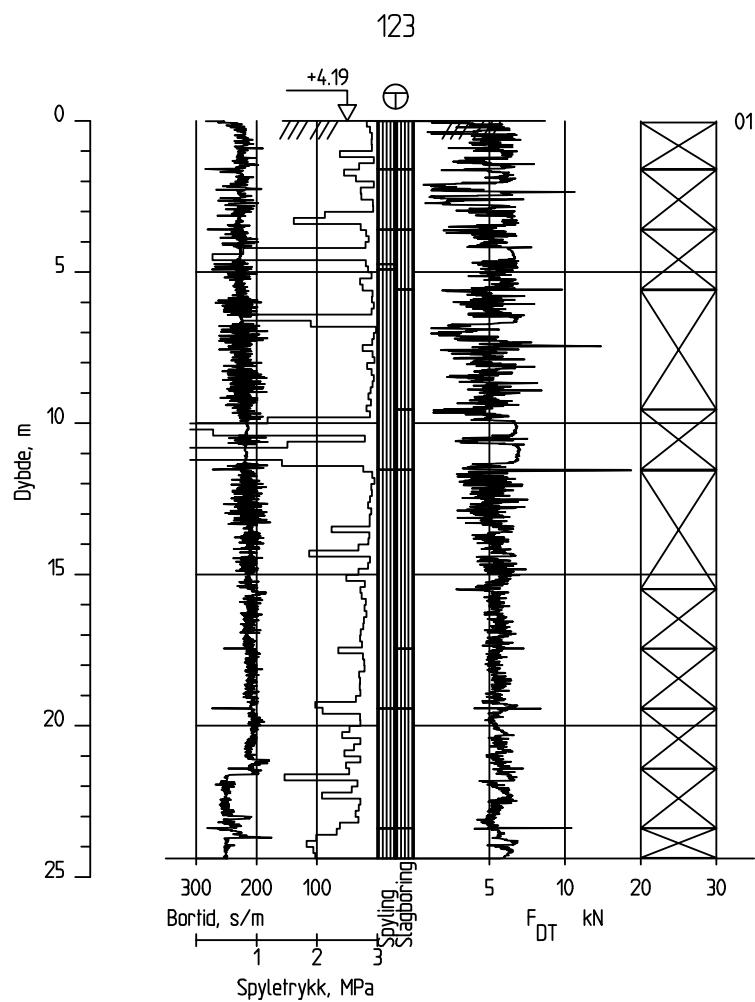
01	2024-08-30	For review		BryOEy GuMjo JFS					
Rev.	Date	Reason for Issue		Prepared Checked Approved					
		PROJECT NAME Smeaheia AREA/LOCATION Austrevågen FORMAT A4 SCALE 1:250		DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 119					
PLANT SMEAHEIA		ORIGINATOR NAME Norconsult		PO. NO - E316 DRAWING NO.: ORIGIN. DRW. NO. PROJECT NO. PLANT PR. CODE ORIG. CODE DISC. CODE DRW. TYPE SEQUENCE NO. SHT. NO. REV. NO.		01			



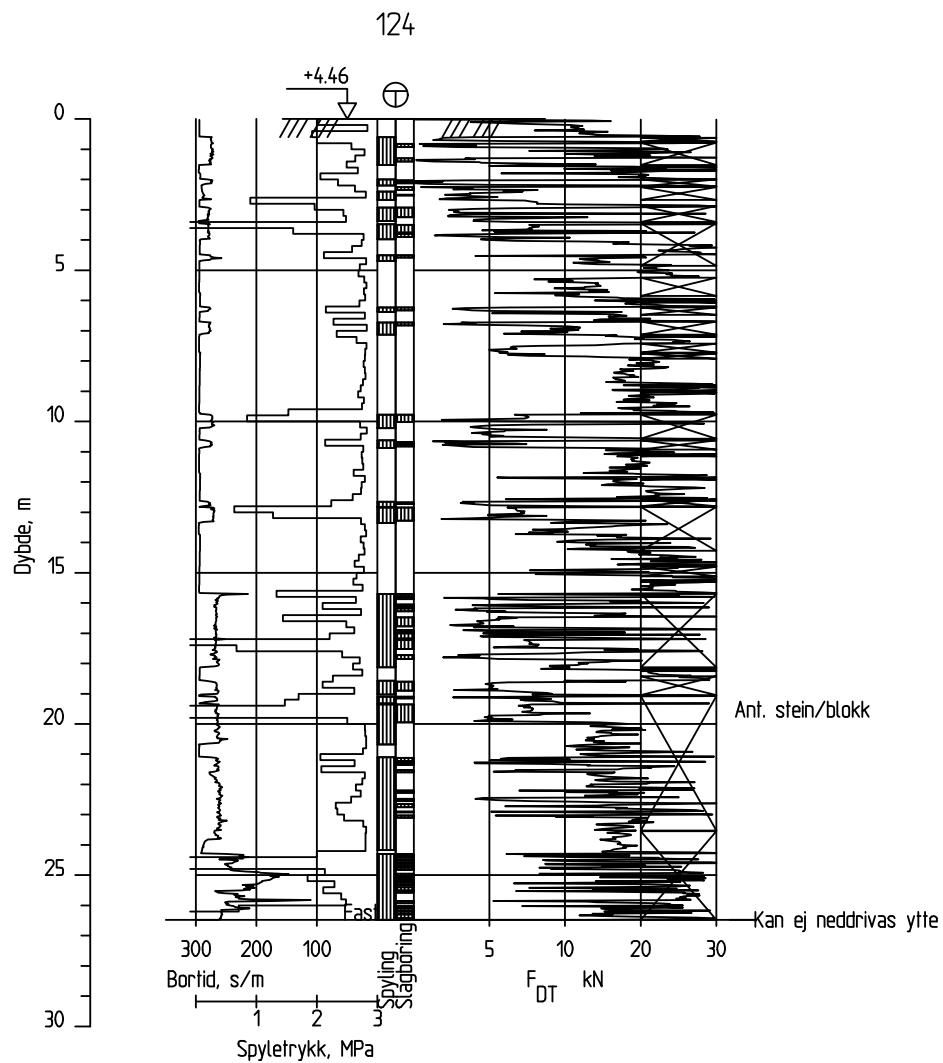
01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
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		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 120			
		SCALE 1:250				
		PLANT SMEAHEIA				
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.:	01
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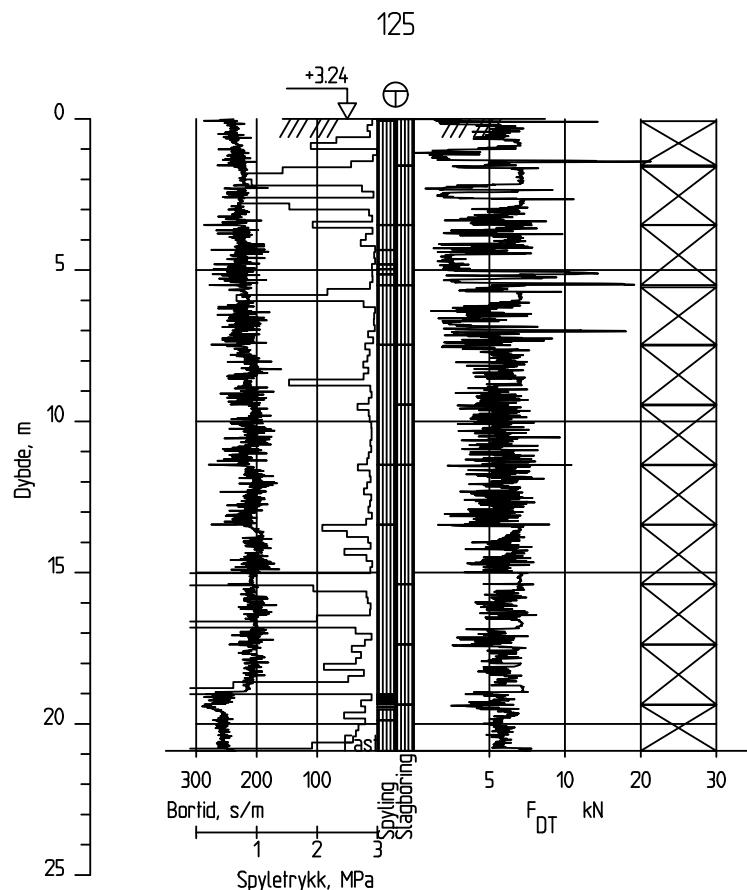
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Rev.	Date	Reason for issue		Prepared	Checked	Approved	
PROJECT NAME: Smeaheia AREA/LOCATION: Austrevågen FORMAT: A3 PLANT: SMEAHEIA ORIGINATOR NAME: equinor Norconsult		DRAWING TITLE: Smeaheia Site Preparation – Study Geotechnical field investigations Total sounding profiles 121 and 121B					
01	E316	DRAWING NO.:					
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		121					



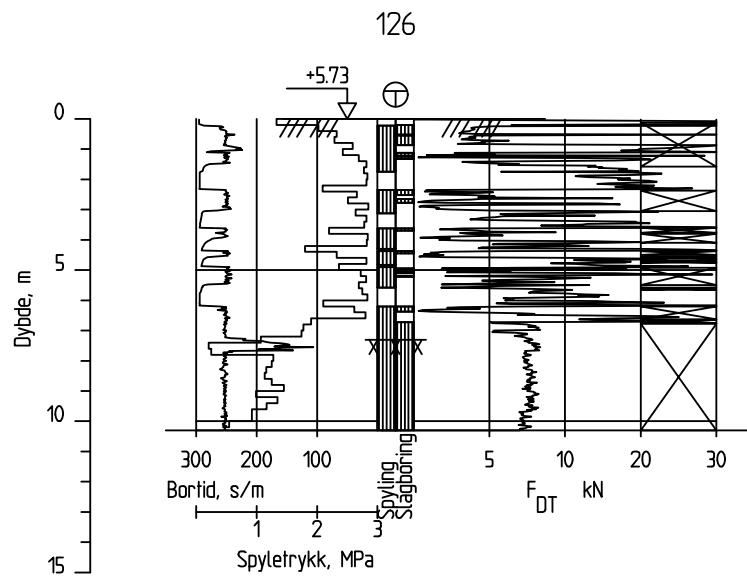
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Rev.	Date	Reason for Issue		Prepared	Checked	Approved
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		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 123			
		SCALE 1:250				
		PLANT SMEAHEIA				
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.:	01
			ORIGIN. DRW. NO.	PROJECT NO 123	PLANT PR. CODE	ORIG. CODE
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					REV. NO.	



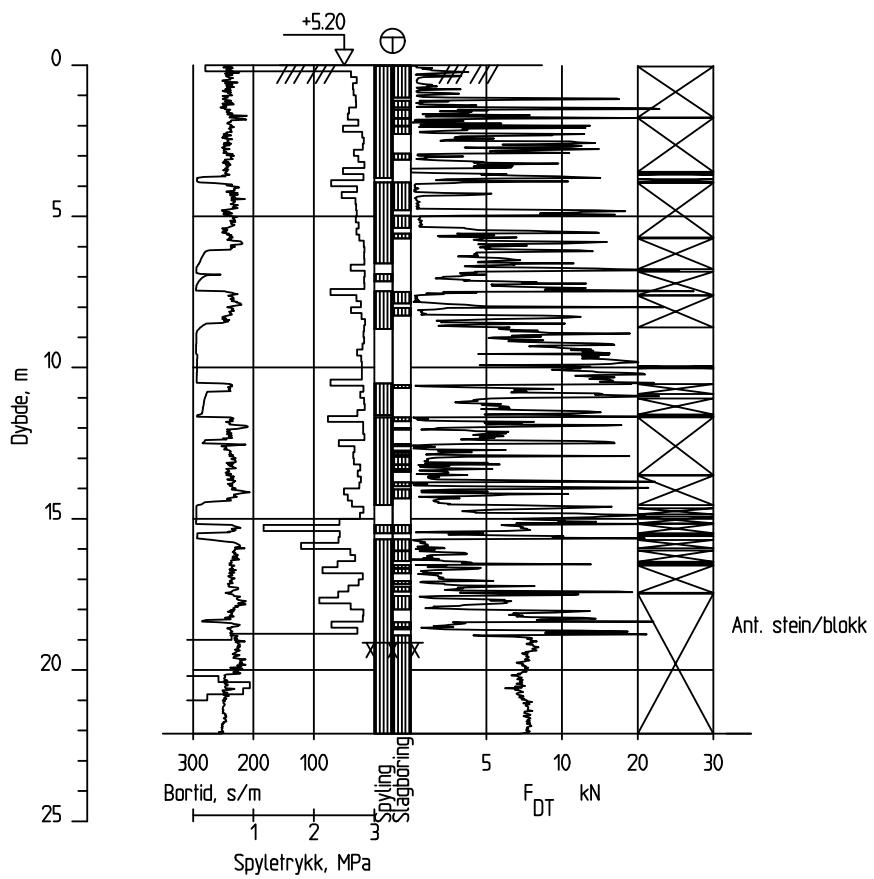
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Rev.	Date	Reason for Issue		Prepared	Checked	Approved
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		AREA/LOCATION Austrevågen				
		FORMAT A4	SCALE 1:250			
		PLANT SMEAHEIA	ORIGINATOR NAME Norconsult	PO. NO E316	DRAWING NO.: 124	01
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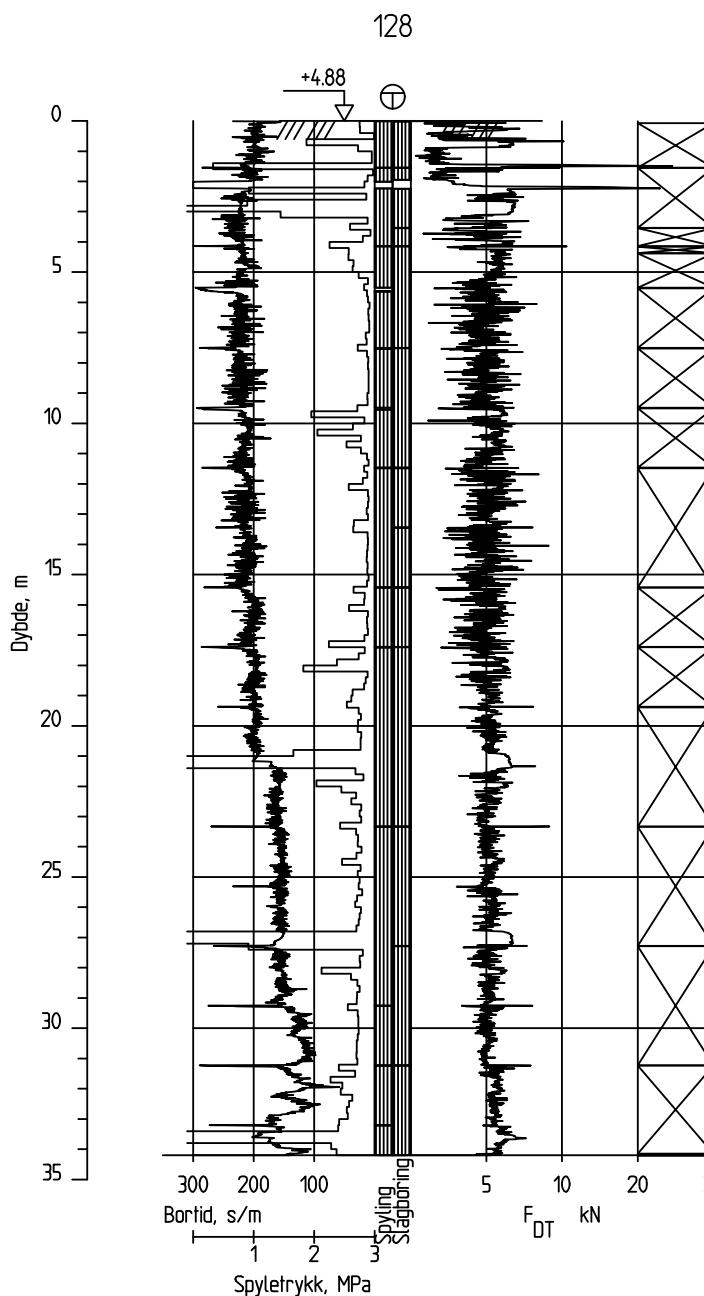
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Rev.	Date	Reason for Issue	Prepared	Checked	Approved
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PLANT SMEAHEIA		AREA/LOCATION Austrevågen			
ORIGINATOR NAME	PO. NO	E316	DRAWING NO.:		01
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	ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE
	125				
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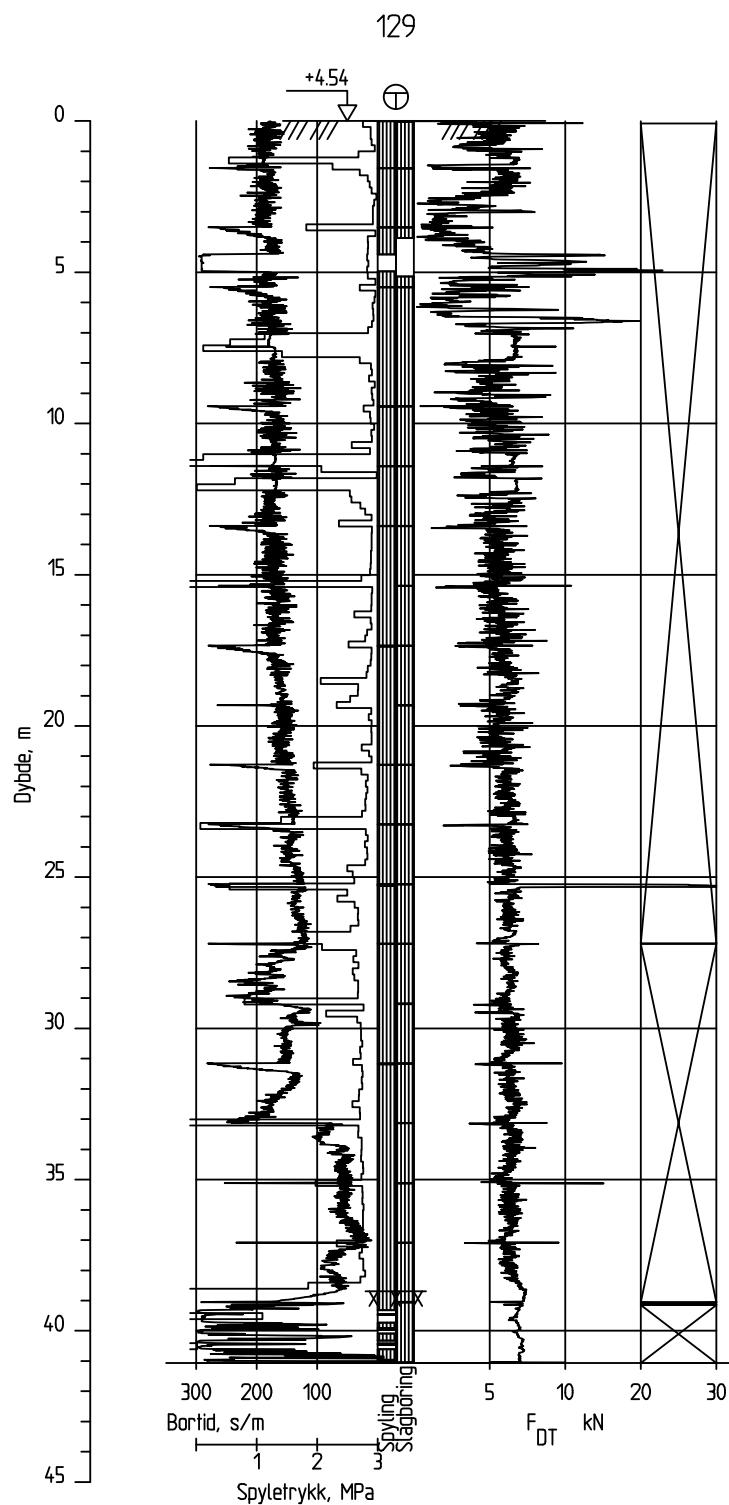
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Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 126			
		SCALE 1:250				
		PLANT SMEAHEIA				
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.: 01	
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					REV. NO.	



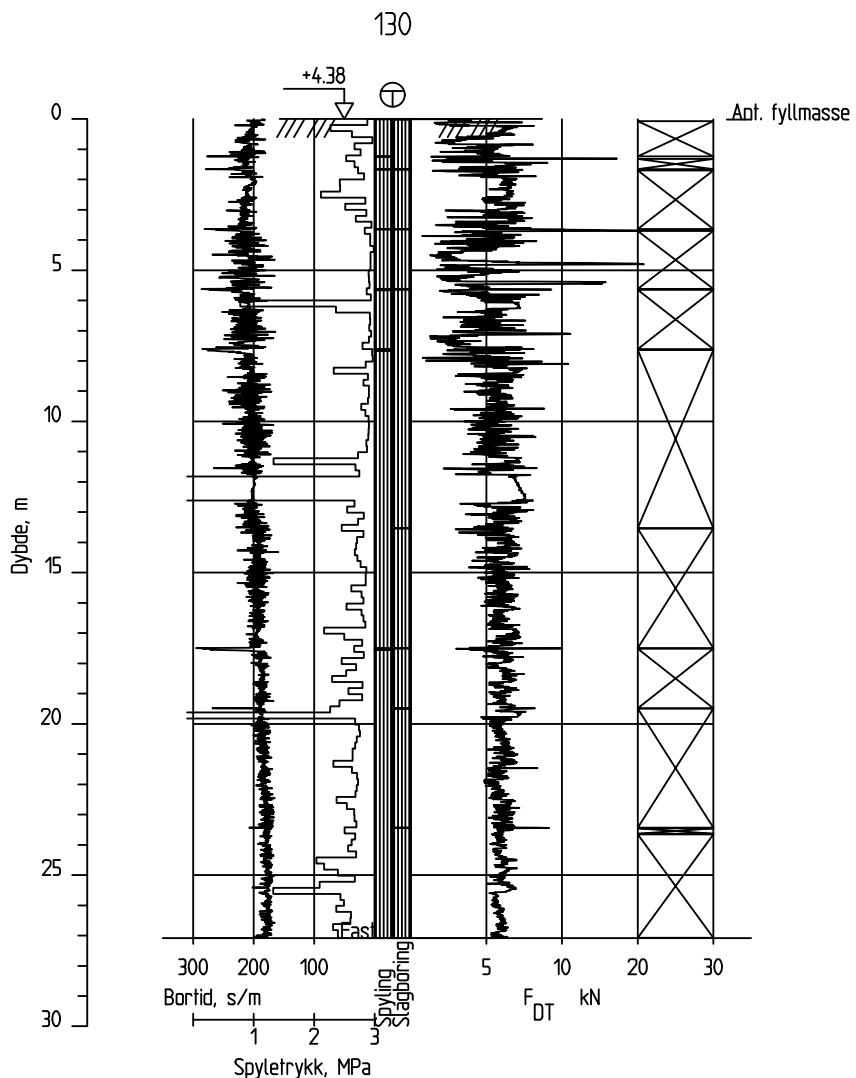
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Rev.	Date	Reason for issue		Prepared	Checked	Approved			
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		AREA/LOCATION Austråvågen							
		FORMAT A4						SCALE 1:250	
PLANT	SMEAHEIA	PO. NO.	DRAWING NO.:				01		
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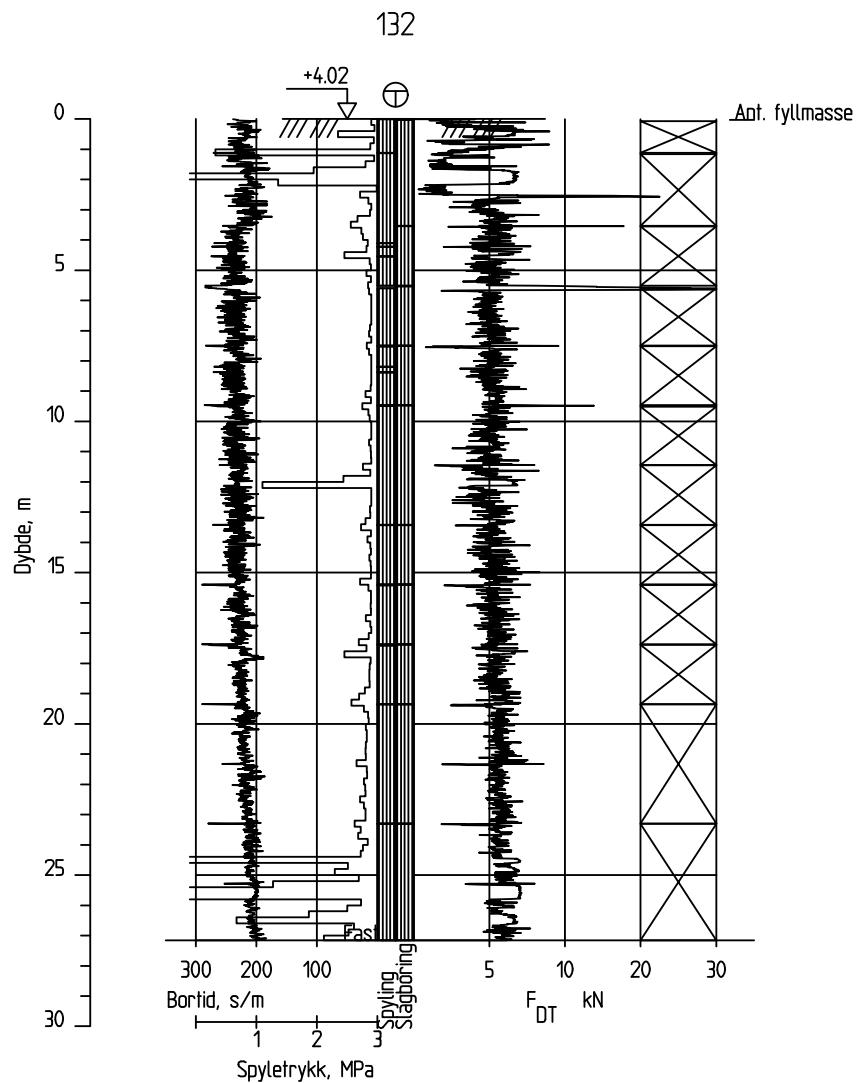
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		FORMAT A4	SCALE 1:250	Total sounding profile 128					
		PLANT SMEAHEIA							
		ORIGINATOR NAME equinor	PO. NO -	DRAWING NO.: E316					
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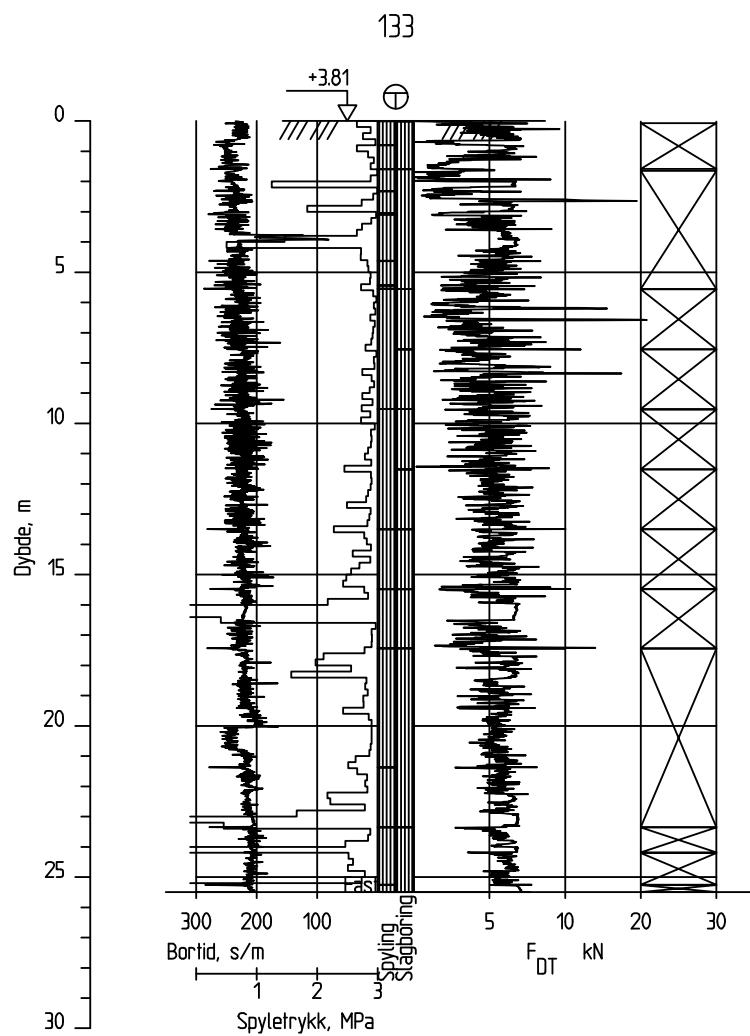
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		AREA/LOCATION Austrevågen		Geotechnical field investigations					
		FORMAT A4	SCALE 1:250	Total sounding profile 129					
		ORIGINATOR NAME equinor	PO. NO -	DRAWING NO.: E316					
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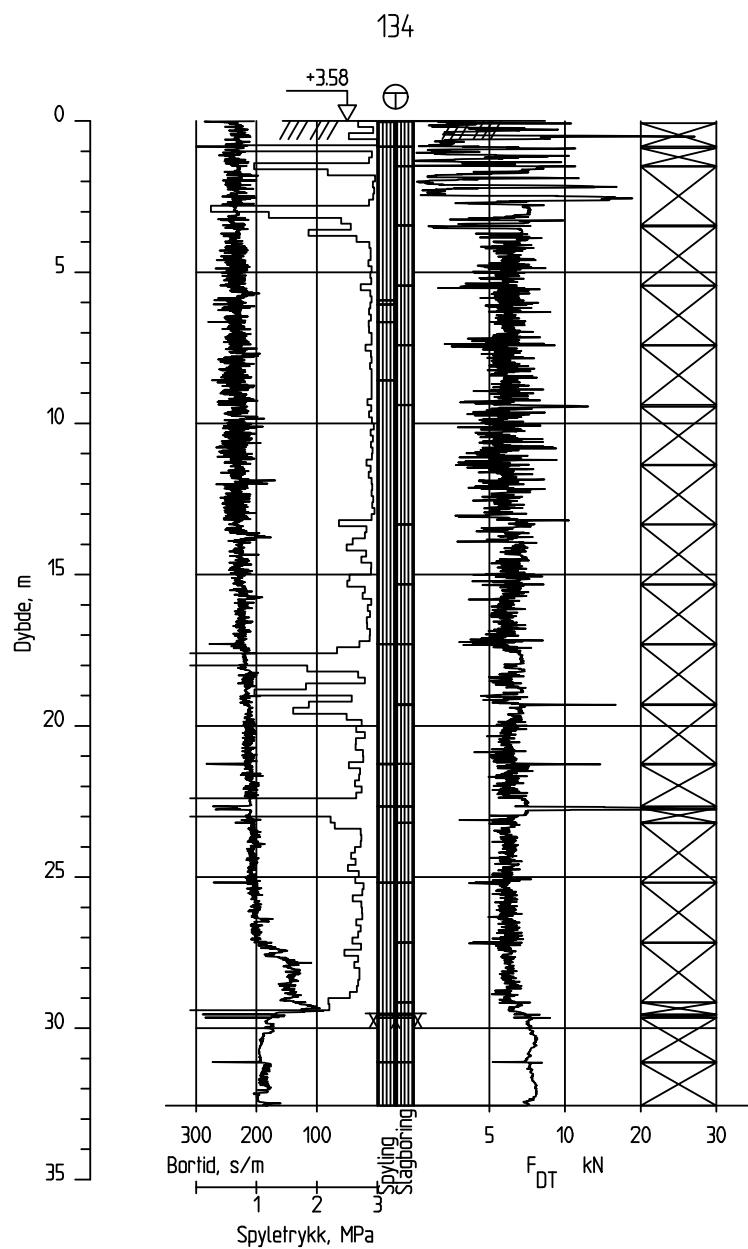
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Rev.	Date	Reason for Issue	Prepared	Checked	Approved
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		AREA/LOCATION: Austrevågen			
PLANT	SMEAHEIA	FORMAT: A4	SCALE: 1:250		
ORIGINATOR NAME	PO. NO.	E316	DRAWING NO.:		01
Norconsult	ORIGIN. DRW. NO.	PROJECT NO.	PLANT PR. CODE	ORIG. CODE	DISC. CODE
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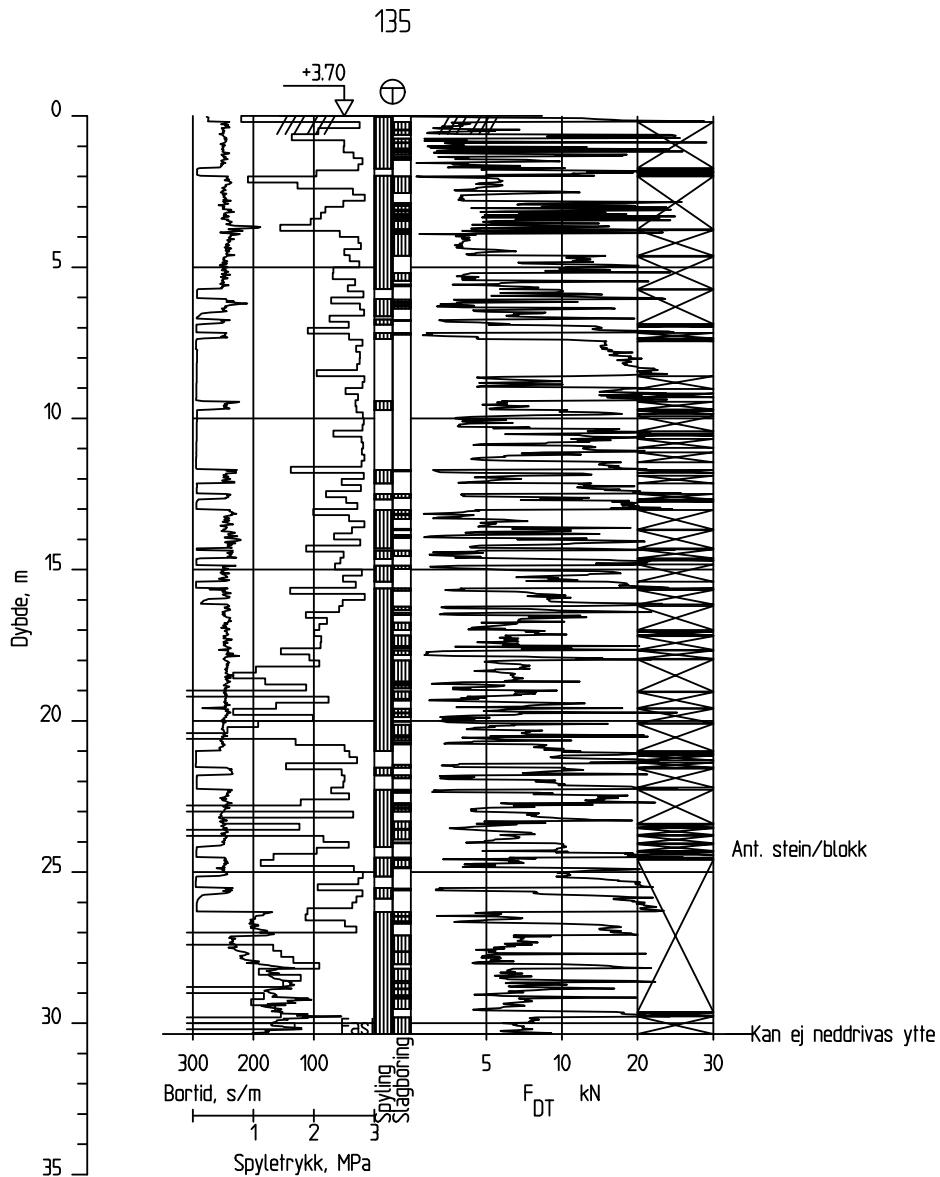
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Rev.	Date	Reason for Issue				Prepared	Checked	Approved		
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		AREA/LOCATION Austrevågen	Geotechnical field investigations							
		FORMAT A4	SCALE 1:250	Total sounding profile 132						
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.:			01		
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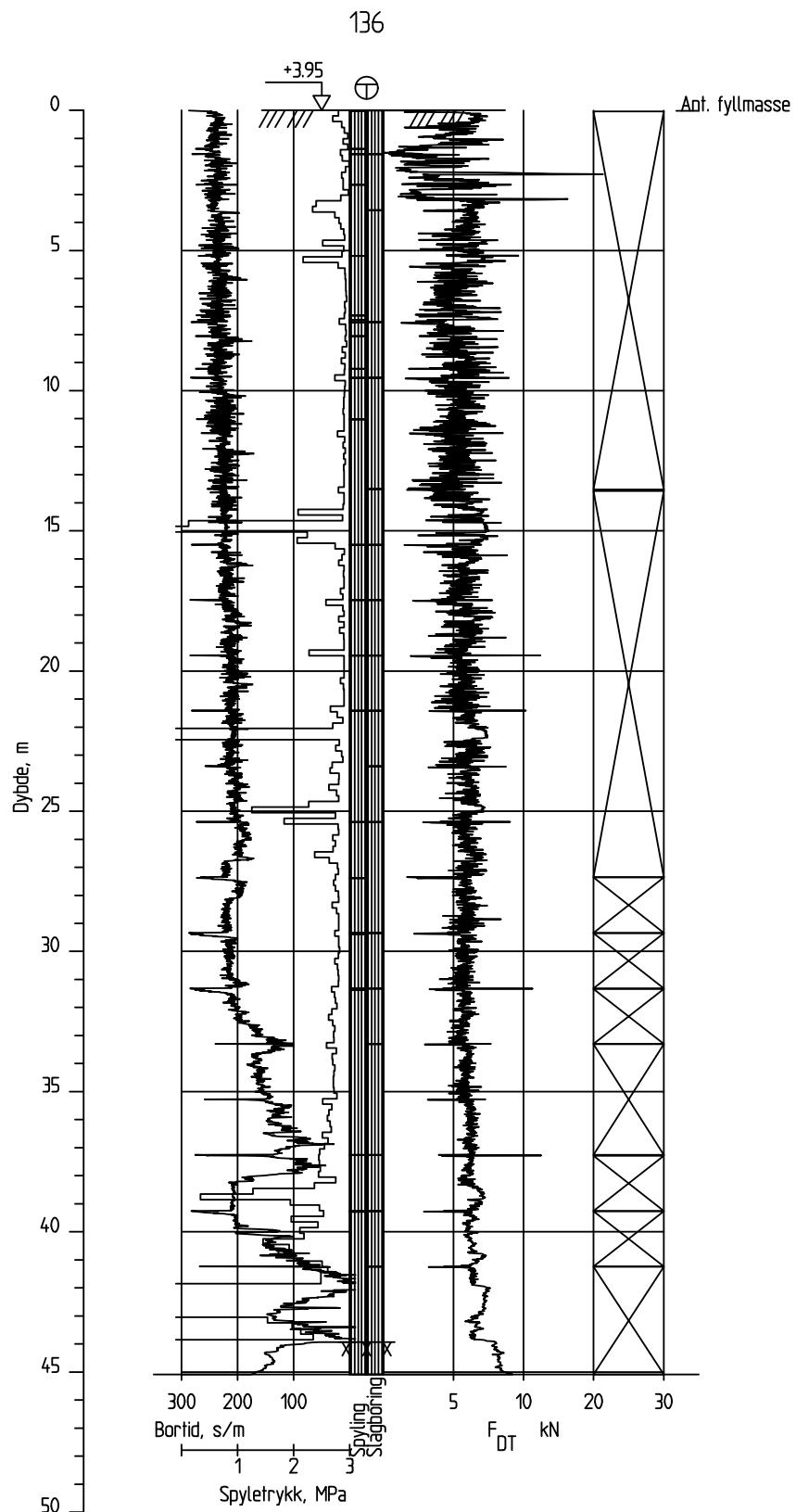
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Rev.	Date	Reason for Issue		Prepared	Checked	Approved
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		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 133			
		SCALE 1:250				
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.:	01
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					REV. NO.	



01		2024-08-30		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved		
		PROJECT NAME Smeaheia		DRAWING TITLE:				
		AREA/LOCATION Austrevågen		Smeaheia Site Preparation - Study				
		FORMAT A4	SCALE 1:250	Geotechnical field investigations				
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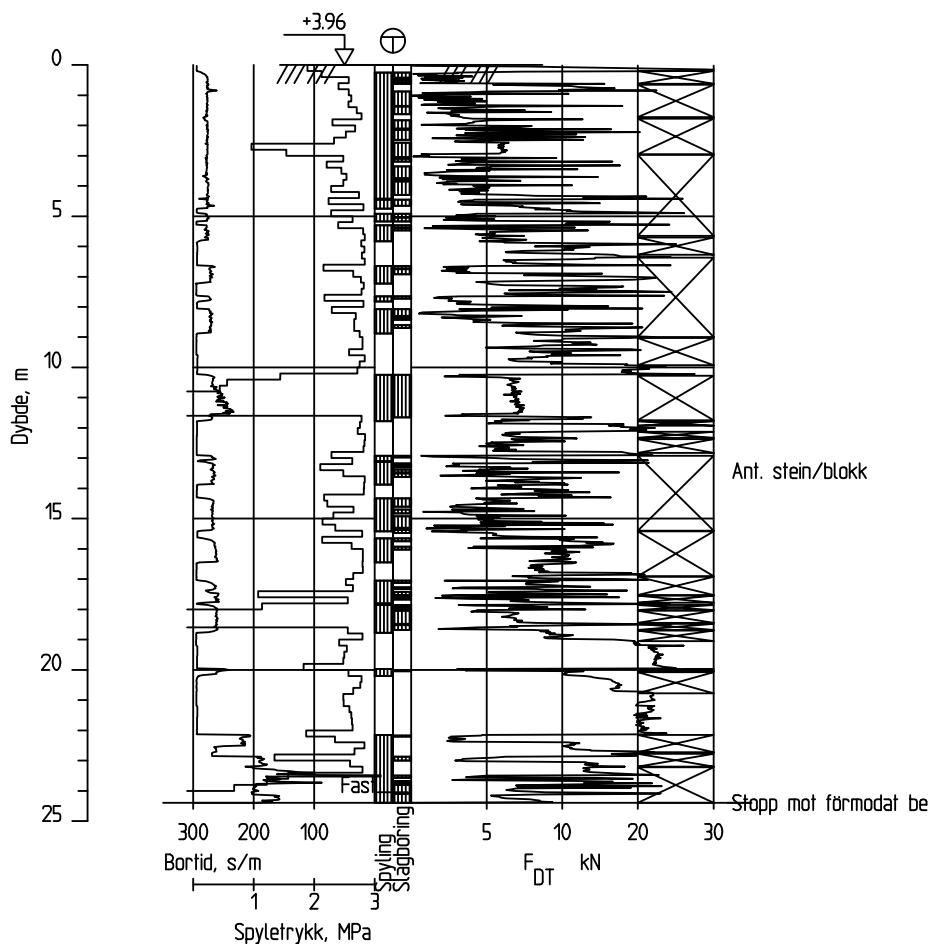


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Rev.	Date	Reason for issue			Prepared	Checked	Approved		
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		Smeahela		Smeahela Site Preparation – Study					
		AREA/LOCATION		Geotechnical field investigations					
Austrevägen		Total sounding profile 135							
FORMAT		SCALE							
A4		1:250							
PLANT		SMEAHEIA							
ORIGINATOR NAME		PO. NO	DRAWING NO.:						
 Norconsult		—	E316						
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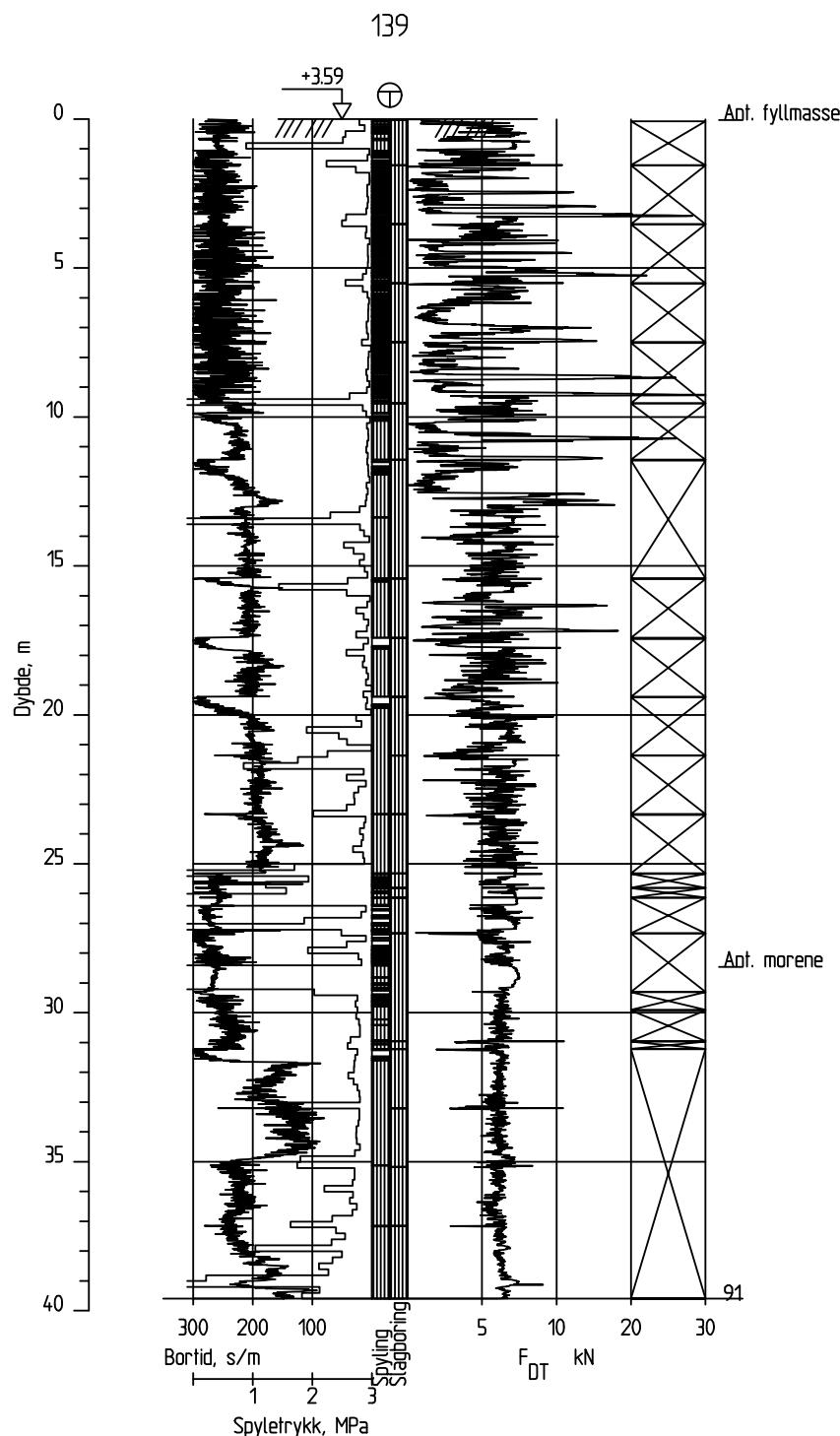


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Rev.	Date	Reason for issue			Prepared	Checked	Approved				
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		Smeahela		Smeahela Site Preparation – Study							
		AREA/LOCATION		Geotechnical field investigations							
Austrevägen		Total sounding profile 136									
FORMAT		SCALE									
A4		1:250									
PLANT		SMEAHEIA	PO. NO	DRAWING NO.:					01		
ORIGINATOR NAME		-		E316							
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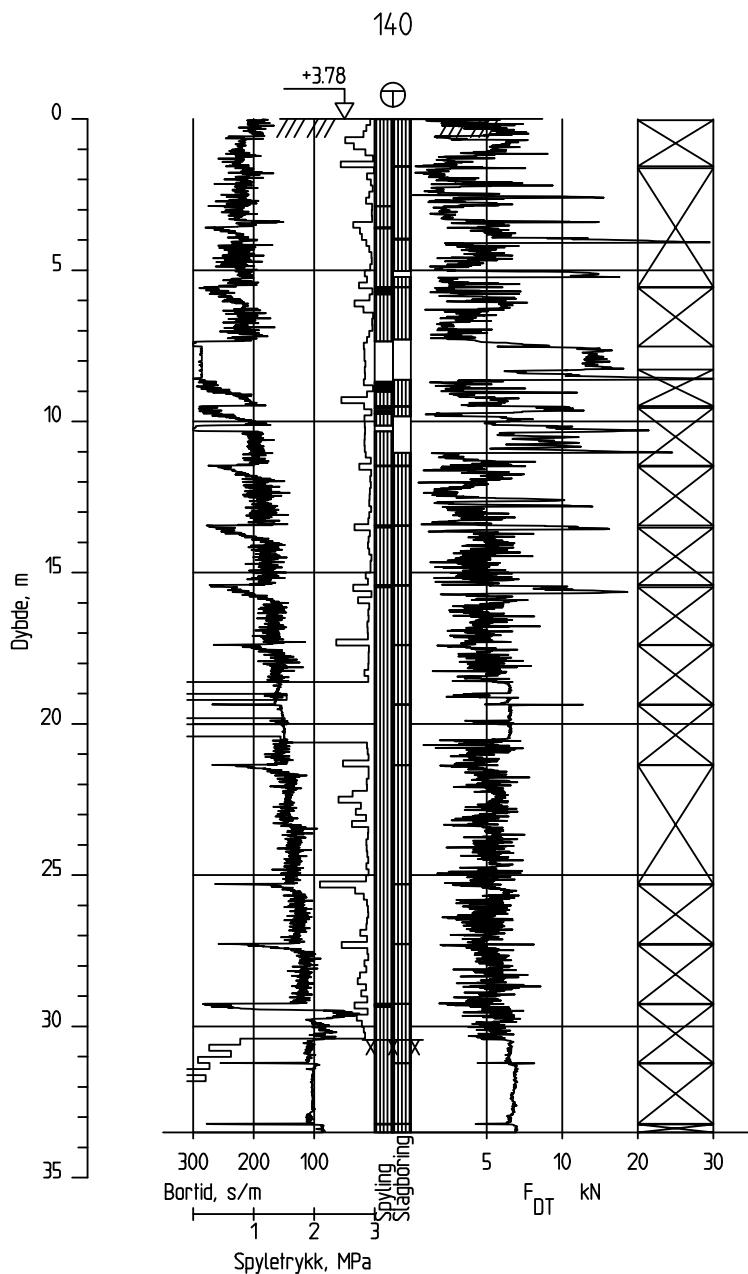
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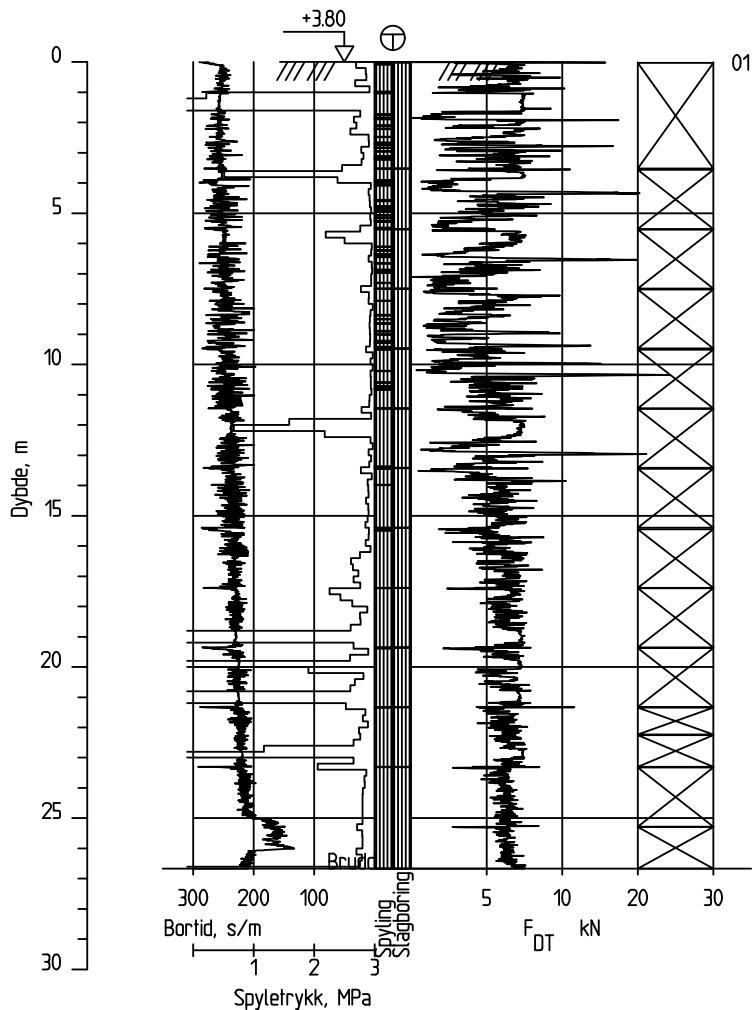
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Rev.	Date	Reason for Issue								Prepared	Checked	Approved	
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		AREA/LOCATION Austrevågen		Geotechnical field investigations									
		FORMAT A4	SCALE 1:250	Total sounding profile 138									
		PLANT SMEAHEIA	ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.:							01
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01		2024-08-30		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved		
		PROJECT NAME Smeaheia		DRAWING TITLE: Smeaheia Site Preparation - Study				
		AREA/LOCATION Austrevågen		Geotechnical field investigations				
		FORMAT A4	SCALE 1:250	Total sounding profile 139				
		ORIGINATOR NAME equinor	PO. NO -	DRAWING NO.: E316				
		Norconsult	ORIGIN. DRW. NO. 139	PROJECT NO.	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE
						SEQUENCE NO.	SHT. NO.	REV. NO.

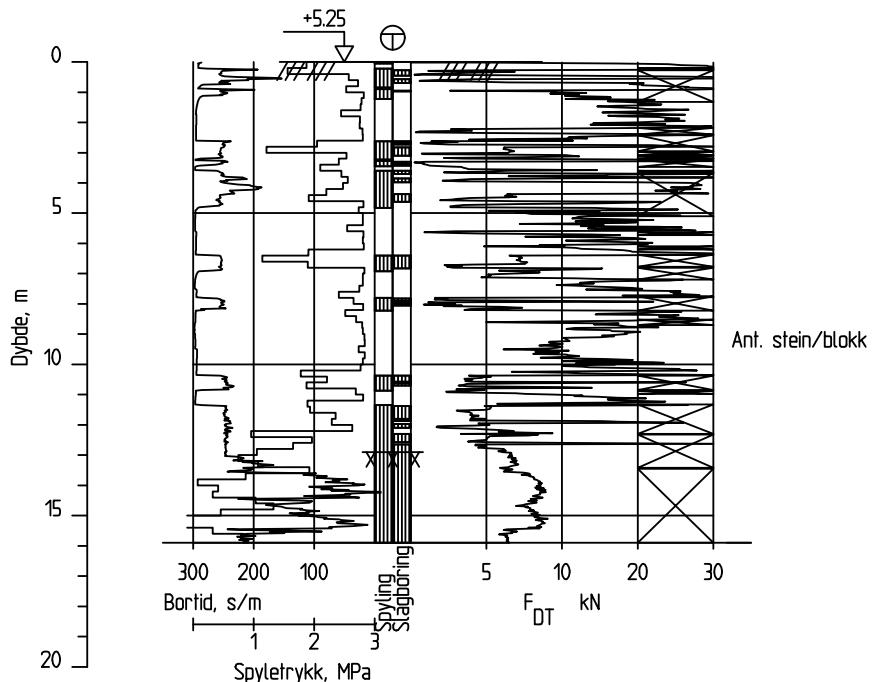


01	2024-08-30	For review	BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue	Prepared	Checked	Approved
		PROJECT NAME: Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 140		
PLANT SMEAHEIA		AREA/LOCATION Austrevågen			
ORIGINATOR NAME	PO. NO	E316	DRAWING NO.:		01
Norconsult	ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE
	140			DRW. TYPE	SEQUENCE NO.
				SHT. NO.	REV. NO.

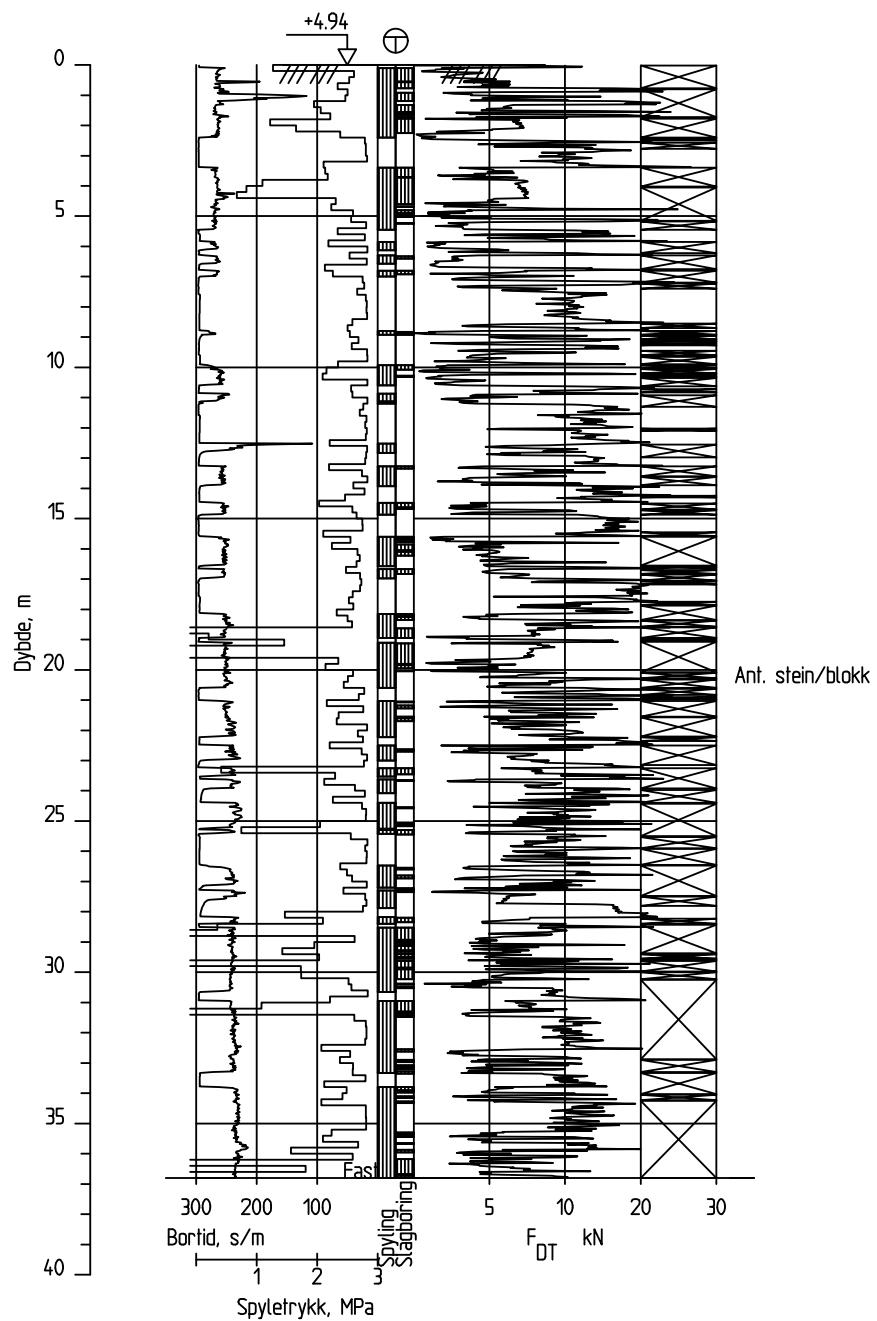


01	2024-08-30	For review	BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue	Prepared	Checked	Approved
		PROJECT NAME: Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 141		
PLANT SMEAHEIA		AREA/LOCATION Austrevågen			
ORIGINATOR NAME	PO. NO	E316	DRAWING NO.:		01
		ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE
		141			DISC. CODE
				DRW. TYPE	SEQUENCE NO.
				SHT. NO.	REV. NO.

142

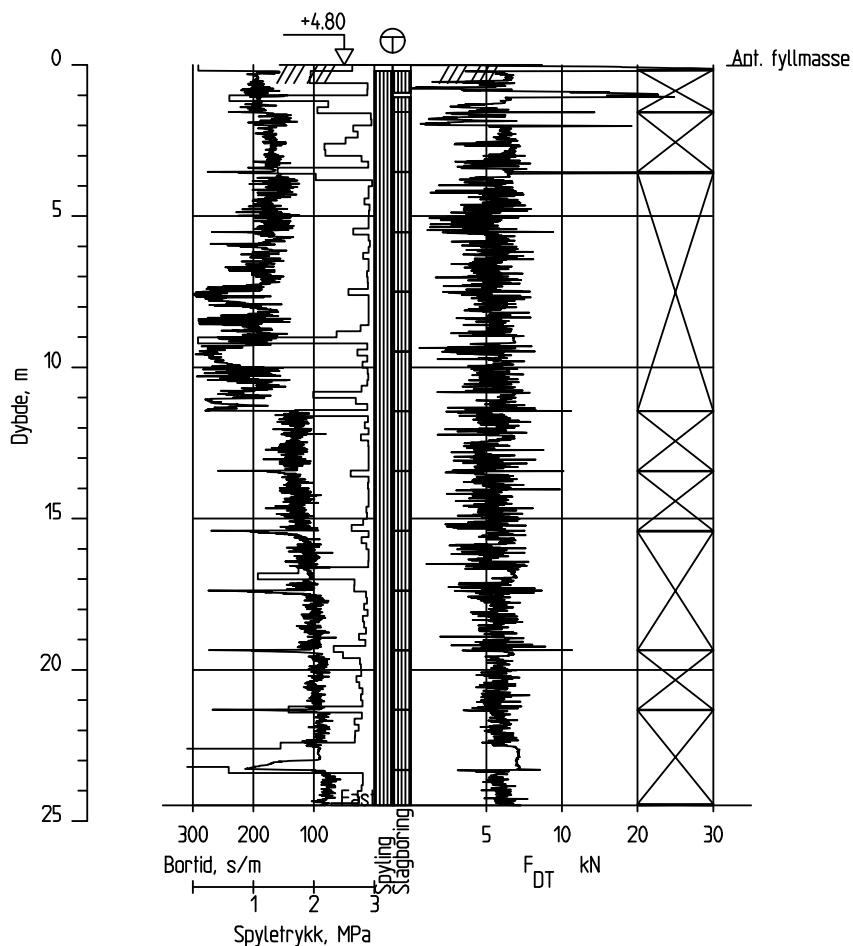


01	2024-08-30	For review		BryOEy GuMjo JFS					
Rev.	Date	Reason for Issue		Prepared Checked Approved					
		PROJECT NAME: Smeaheia AREA/LOCATION: Austrevågen FORMAT: A4 SCALE: 1:250		DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 142					
PLANT SMEAHEIA		ORIGINATOR NAME		PO. NO. E316 DRAWING NO.:		01			
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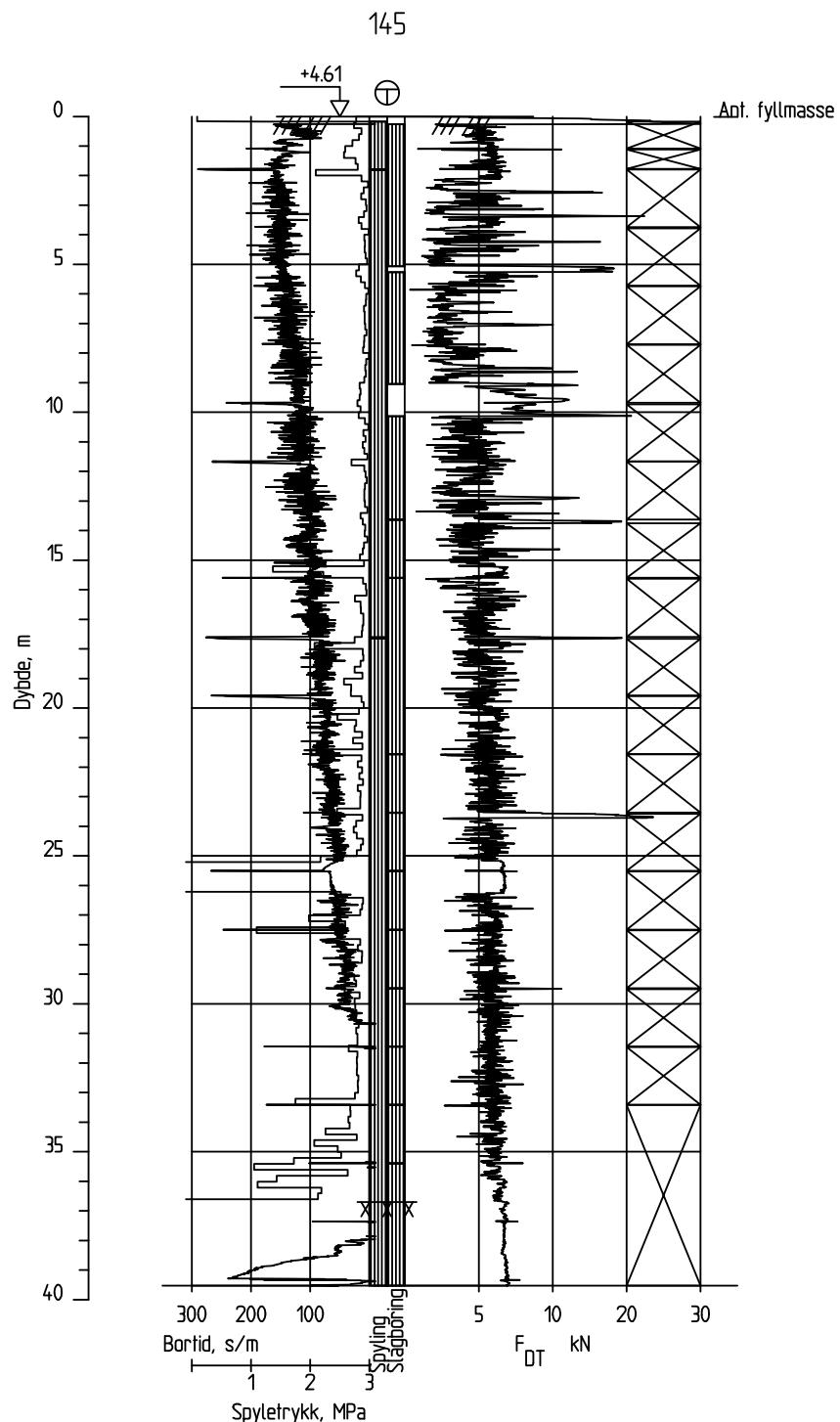


01	2024-08-30	For review			BryOEy	GuMjo	JFS			
Rev.	Date	Reason for Issue			Prepared	Checked	Approved			
 equinor		PROJECT NAME Smeahela		DRAWING TITLE: Smeahela Site Preparation – Study Geotechnical field investigations Total sounding profile 143						
		AREA/LOCATION Austrevägen								
		FORMAT A4	SCALE 1:250							
PLANT SMEAHEIA		ORIGINATOR NAME Norconsult	PO. NO -	DRAWING NO.: E316				01		
		ORIGIN. DRW. NO. 143	PROJECT NO. 	PLANT PR. CODE 	ORIG. CODE 	DISC. CODE 	DRW. TYPE 	SEQUENCE NO. 	SHT. NO. 	REV.

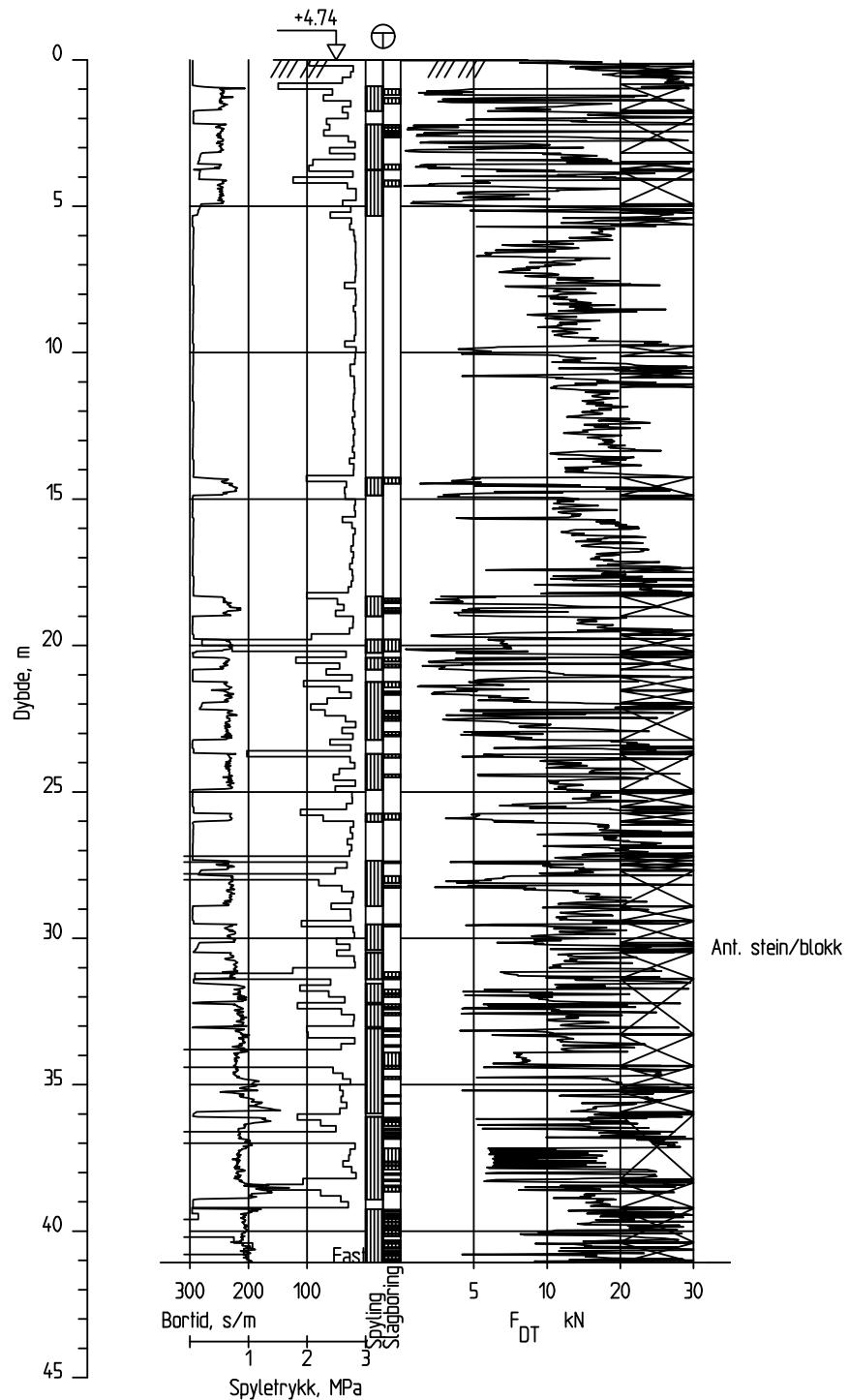
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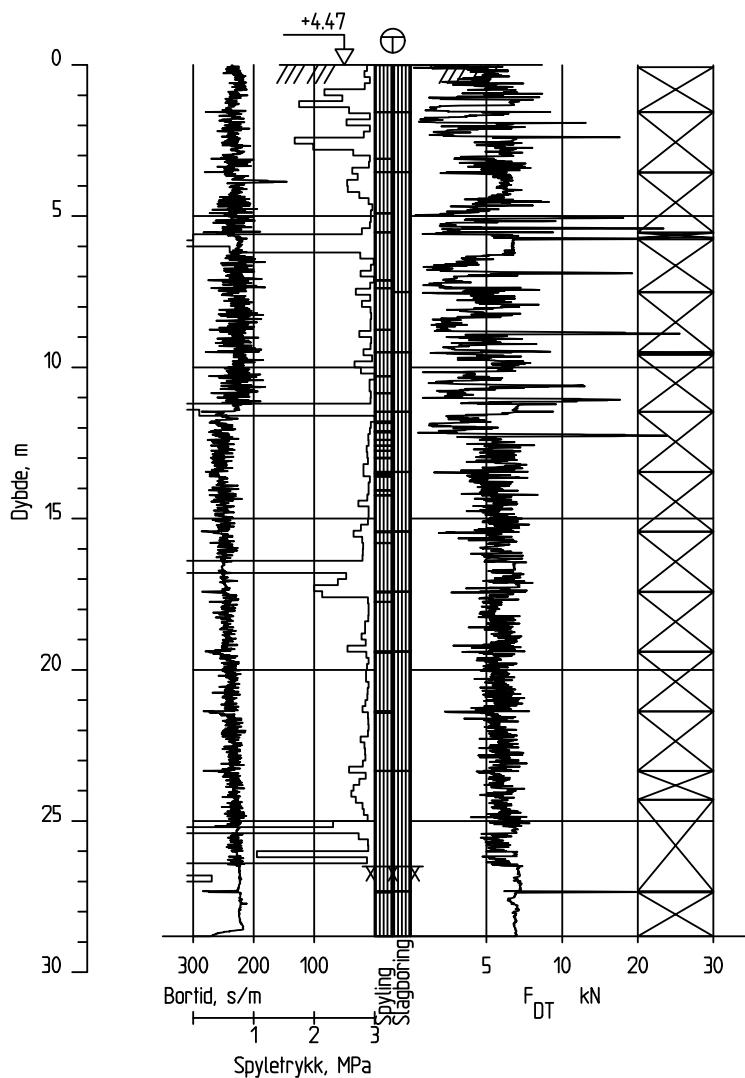
01	2024-08-30	For review	BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue	Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 144		
		AREA/LOCATION Austrevågen			
PLANT	SMEAHEIA	FORMAT A4	SCALE 1:250		
ORIGINATOR NAME	PO. NO		DRAWING NO.:		
	-	E316			01
	ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE
	144			DRW. TYPE	SEQUENCE NO.
				SHT. NO.	REV. NO.



01	2024-08-30	For review			BryOEy	GuMjo	JFS			
Rev.	Date	Reason for Issue			Prepared	Checked	Approved			
 equinor		PROJECT NAME		DRAWING TITLE:						
		Smeahela		Smeahela Site Preparation – Study						
		AREA/LOCATION		Geotechnical field Investigations						
Austrevågen		Total sounding profile 145								
PLANT	SMEAHEIA	FORMAT	SCALE	A4	1:250					
Norconsult 		ORIGINATOR NAME	PO. NO	DRAWING NO.:						
			—	E316						
		ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.	SHT. NO.	REV. NO.
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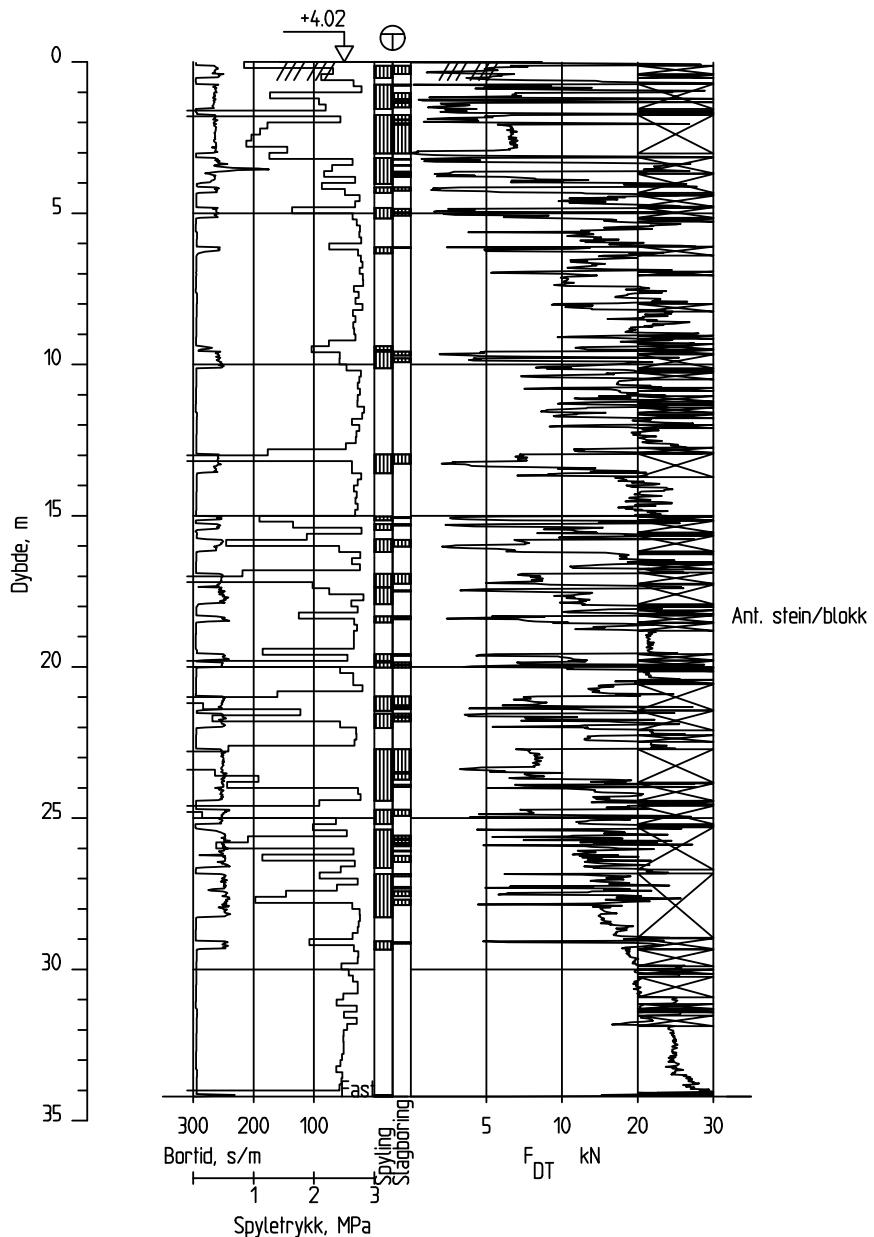


01	2024-08-30	For review			BryOEy	GuMjo	JFS		
Rev.	Date	Reason for issue			Prepared	Checked	Approved		
 equinor		PROJECT NAME		DRAWING TITLE:					
		Smeahela		Smeahela Site Preparation – Study					
		AREA/LOCATION		Geotechnical field investigations					
Austrevågen		Total sounding profile 146							
FORMAT	SCALE								
A4	1:250								
PLANT		SMEAHEIA							
ORIGINATOR NAME		PO. NO	DRAWING NO.:						
 Norconsult		—	E316						
		ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.	SHT. NO.
		146							

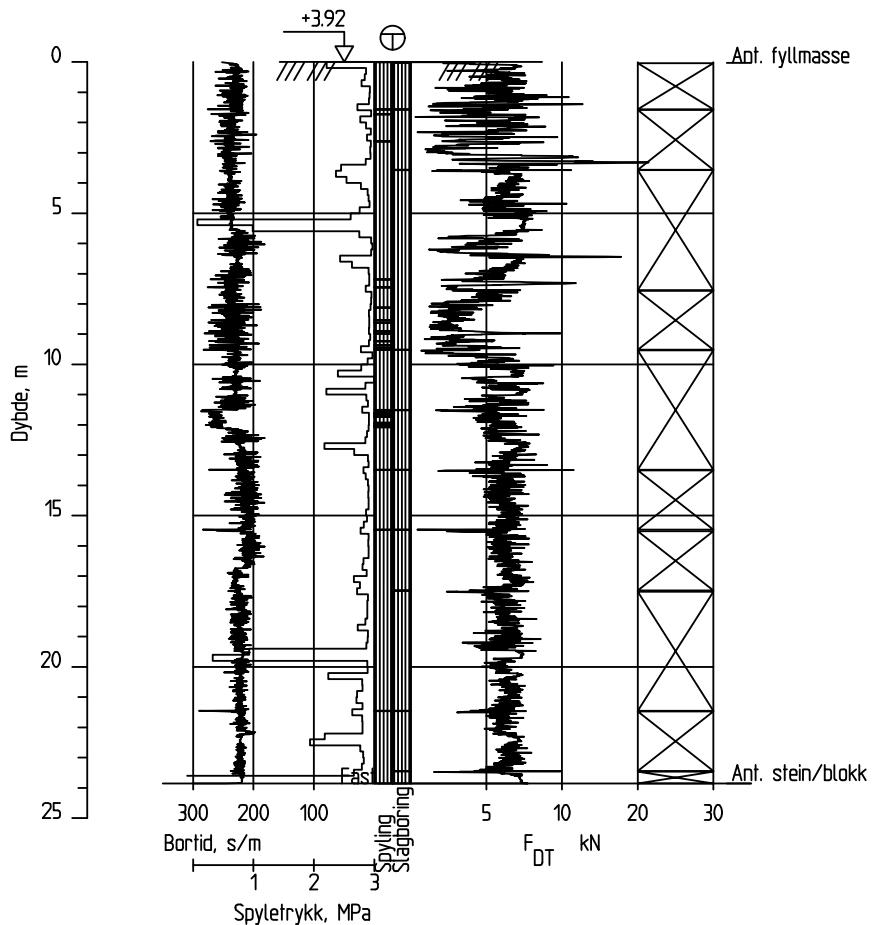


01	2024-08-30	For review						BryOEy	JFS
Rev.	Date	Reason for Issue						Prepared	Checked
									Approved
 equinor		PROJECT NAME Smeaheia	DRAWING TITLE:		Smeaheia Site Preparation - Study				
		AREA/LOCATION Austrevågen			Geotechnical field investigations				
		FORMAT A4	SCALE 1:250			Total sounding profile 147			
PLANT SMEAHEIA		ORIGINATOR NAME Norconsult	PO. NO -	DRAWING NO.: E316					
		ORIGIN. DRW. NO. 147	PROJECT NO 147	PLANT PR. CODE 	ORIG. CODE 	DISC. CODE 	DRW. TYPE 	SEQUENCE NO. 	SH. NO.
									REV. NO. 01

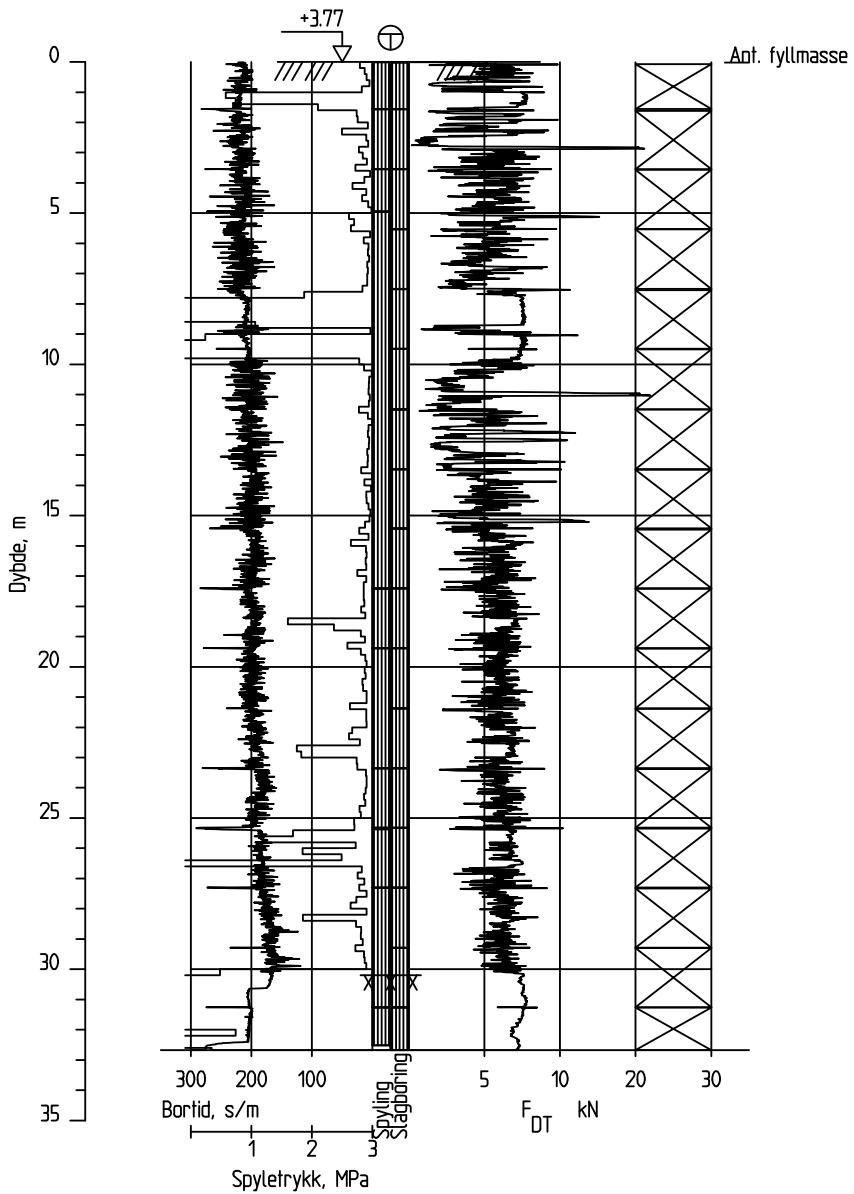
148



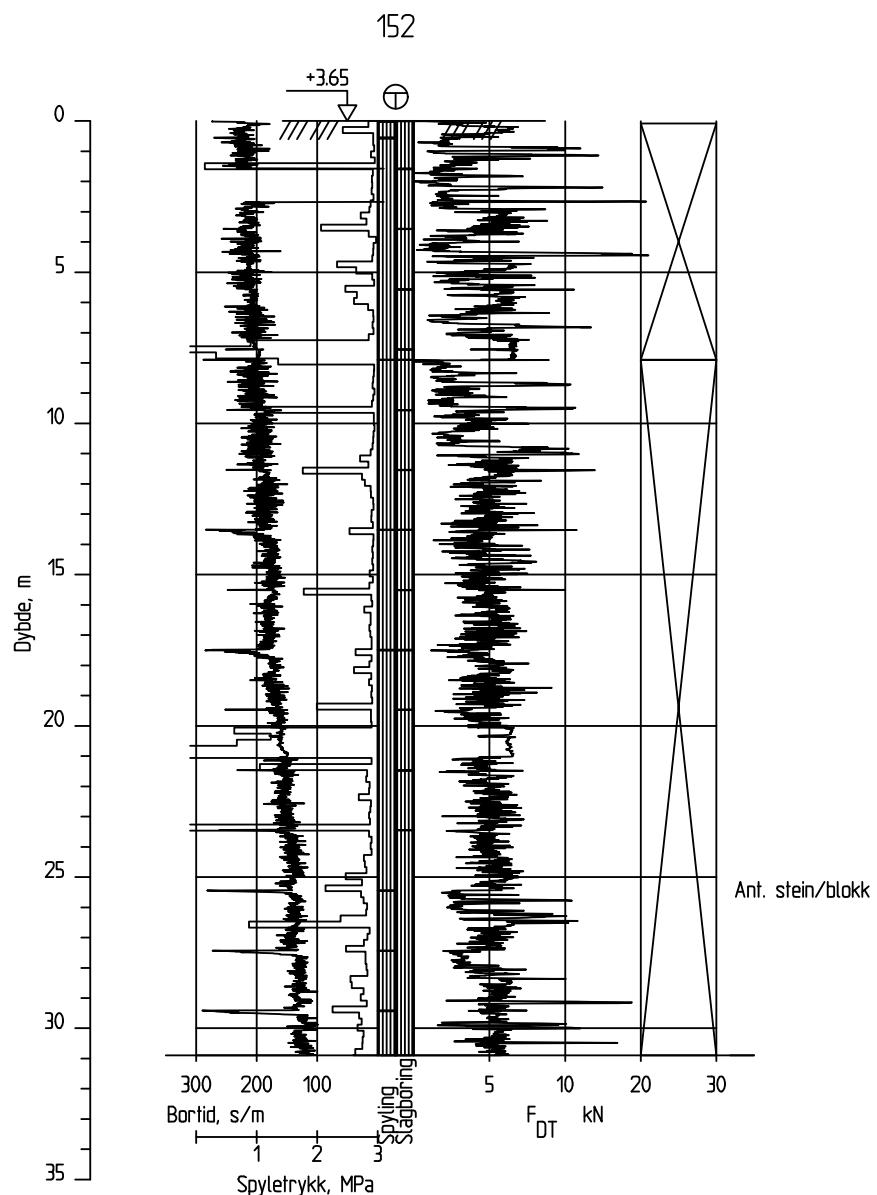
01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 148			
		SCALE 1:250				
		PLANT SMEAHEIA	ORIGINATOR NAME Norconsult	PO. NO E316	DRAWING NO.: 148	01
				ORIGIN. DRW. NO. 148	PROJECT NO. 148	PLANT PR. CODE
					ORIG. CODE	DISC. CODE
					DRW. TYPE	SEQUENCE NO.
					SHT. NO.	REV. NO.



01	2024-08-30	For review			BryOEy GuMjo JFS			
Rev.	Date	Reason for Issue			Prepared Checked Approved			
		PROJECT NAME	DRAWING TITLE:					
		Smeahela	 Smeahela Site Preparation – Study Geotechnical field investigations Total sounding profile 149					
		AREA/LOCATION						
		FORMAT	SCALE					
PLANT SMEAHEIA		A4	1:250					
		ORIGINATOR NAME	PO. NO.	DRAWING NO.:				
			-	E316				01
		ORIGIN. DRW. NO.	PROJECT NO.	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.
149	NO.	CODE	CODE	CODE	TYPE	NO.	NO.	

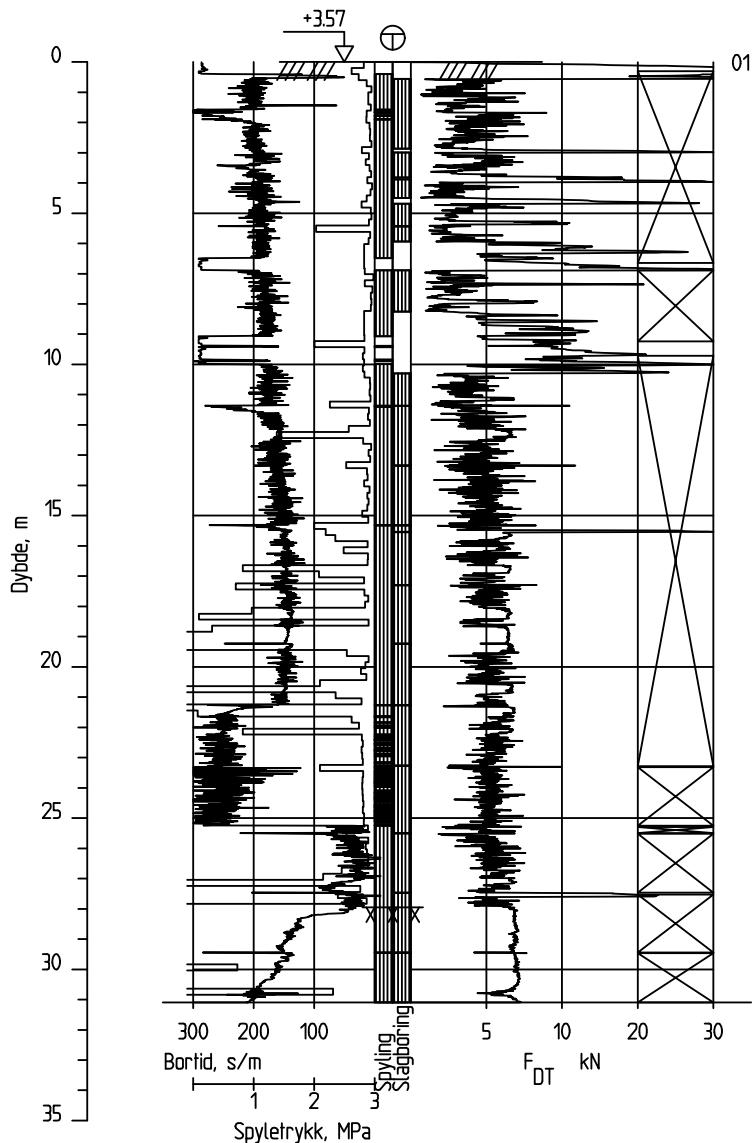


01	2024-08-30	For review			BryOEy	GuMjo	JFS			
Rev.	Date	Reason for Issue			Prepared	Checked	Approved			
		PROJECT NAME		DRAWING TITLE:						
		Smeahela		Smeahela Site Preparation – Study Geotechnical field investigations Total sounding profile 151						
		AREA/LOCATION								
Austrevägen		FORMAT	SCALE							
PLANT	SMEAHELA	A4	1:250							
		ORIGINATOR NAME	PO. NO.	DRAWING NO.:					01	
			-	E316						
		ORIGIN. DRW. NO.	PROJECT NO	PLANT PR.	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.	SHT. NO.	REV. NO.
		151	NO							



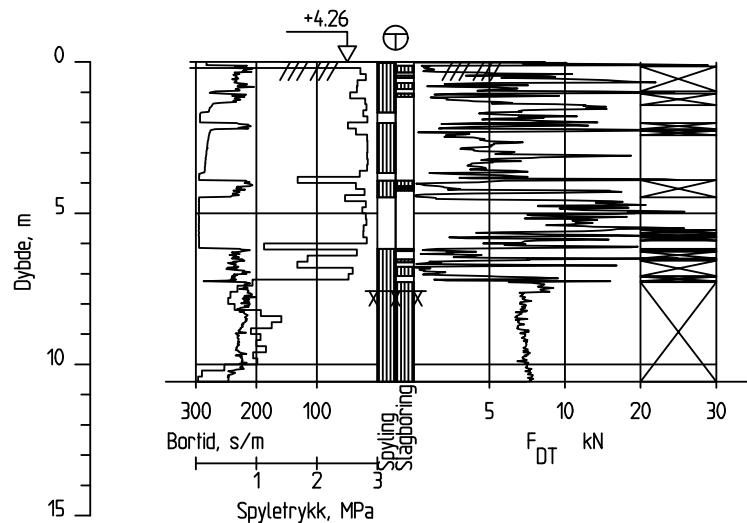
01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 152			
		SCALE 1:250				
		PLANT SMEAHEIA				
		ORIGINATOR NAME equinor	PO. NO -	E316	DRAWING NO.:	01
			ORIGIN. DRW. NO.	PROJECT NO 152	PLANT PR. CODE	ORIG. CODE
					DISC. CODE	DRW. TYPE
					SEQUENCE NO.	SHT. NO.
					REV. NO.	

153

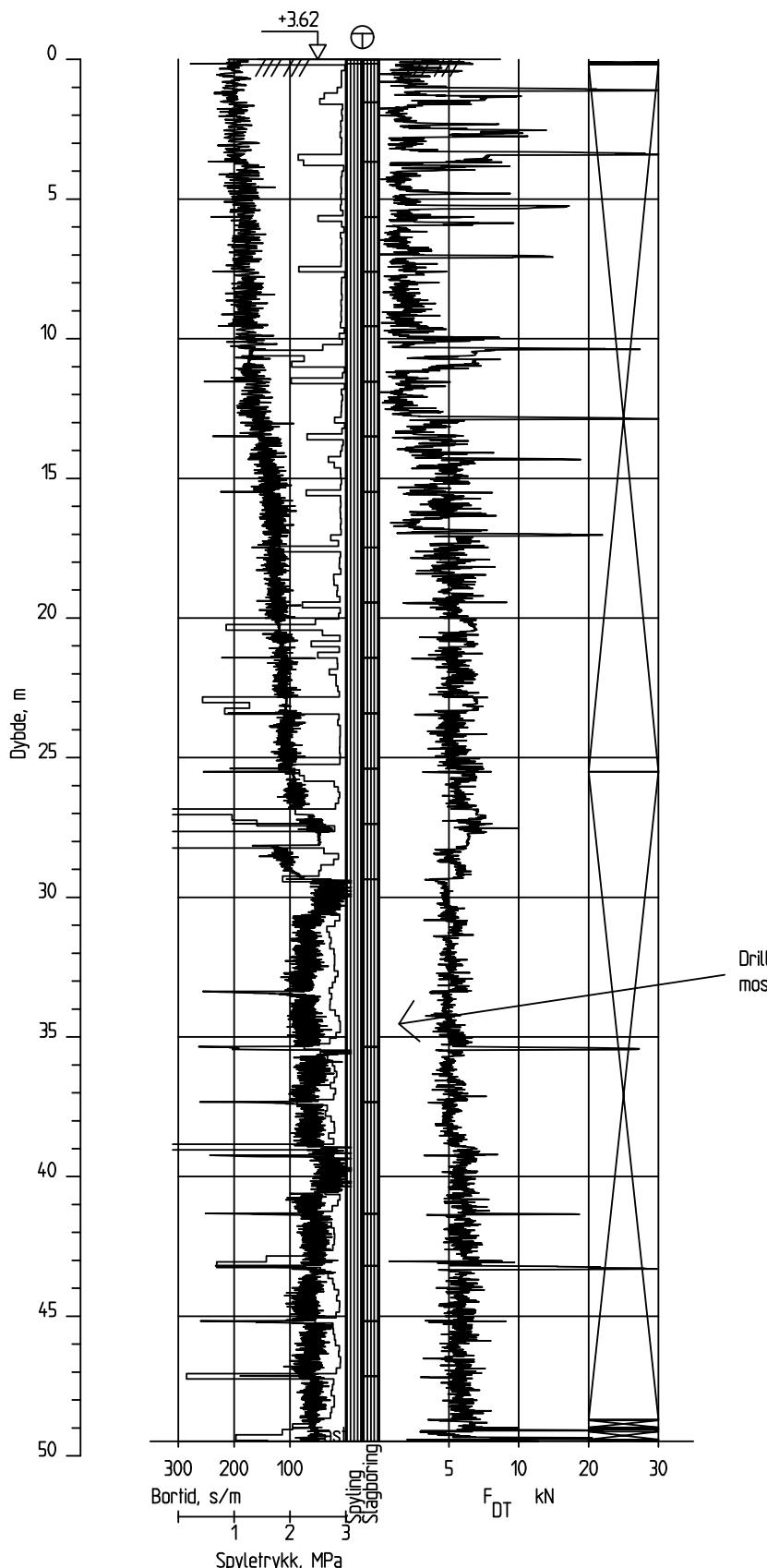


01	2024-08-30	For review		BryOEy GuMjo JFS									
Rev.	Date	Reason for Issue		Prepared Checked Approved									
 SMEAHEIA		PROJECT NAME	DRAWING TITLE:		Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 153								
		AREA/LOCATION											
		Austrevågen	FORMAT	SCALE									
		A4	1:250										
		PLANT	SMEAHEIA	ORIGINATOR NAME	PO. NO	DRAWING NO.:							
					-	E316							
					ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE				
					153				DRW. TYPE				
						SEQUENCE NO.	SHT. NO.	REV. NO.					

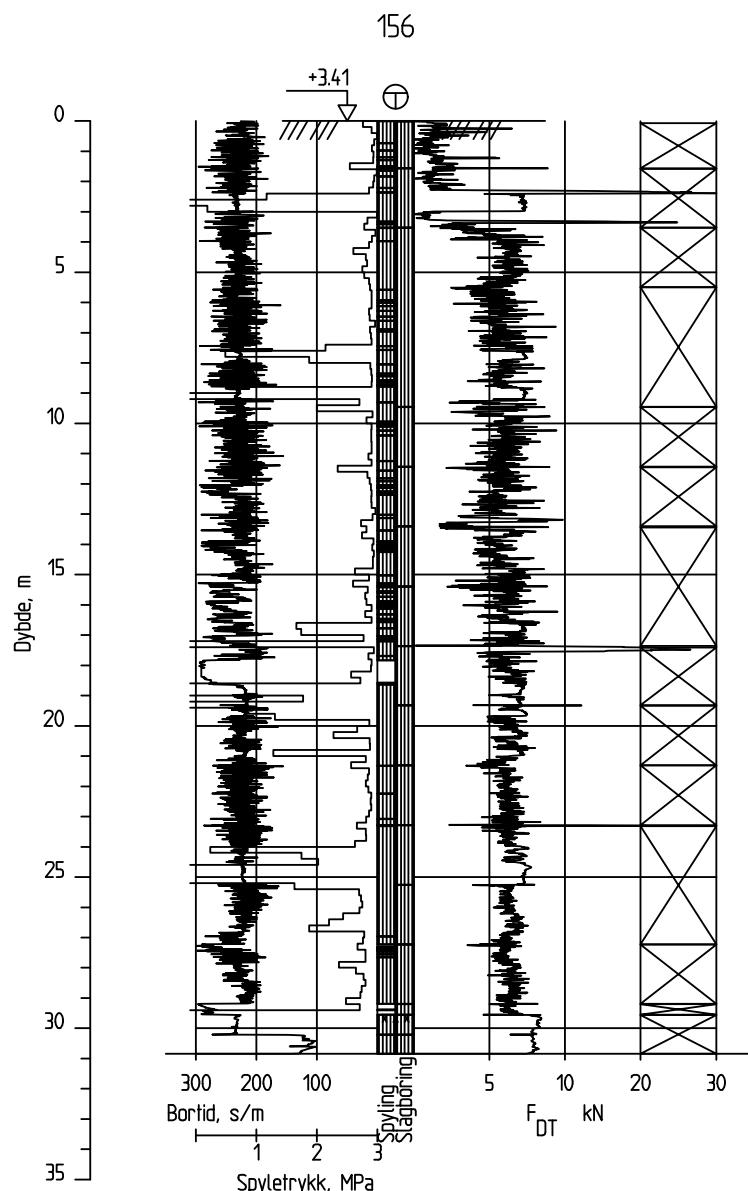
154



01	2024-08-30	For review	BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue	Prepared	Checked	Approved
		PROJECT NAME Smeaheia AREA/LOCATION Austrevågen FORMAT A4 SCALE 1:250 PLANT SMEAHEIA	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 154		
ORIGINATOR NAME	PO. NO	DRAWING NO.:			01
Norconsult	-	E316			
	ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE
	154			DRW. TYPE	SEQUENCE NO.
				SHT. NO.	REV. NO.

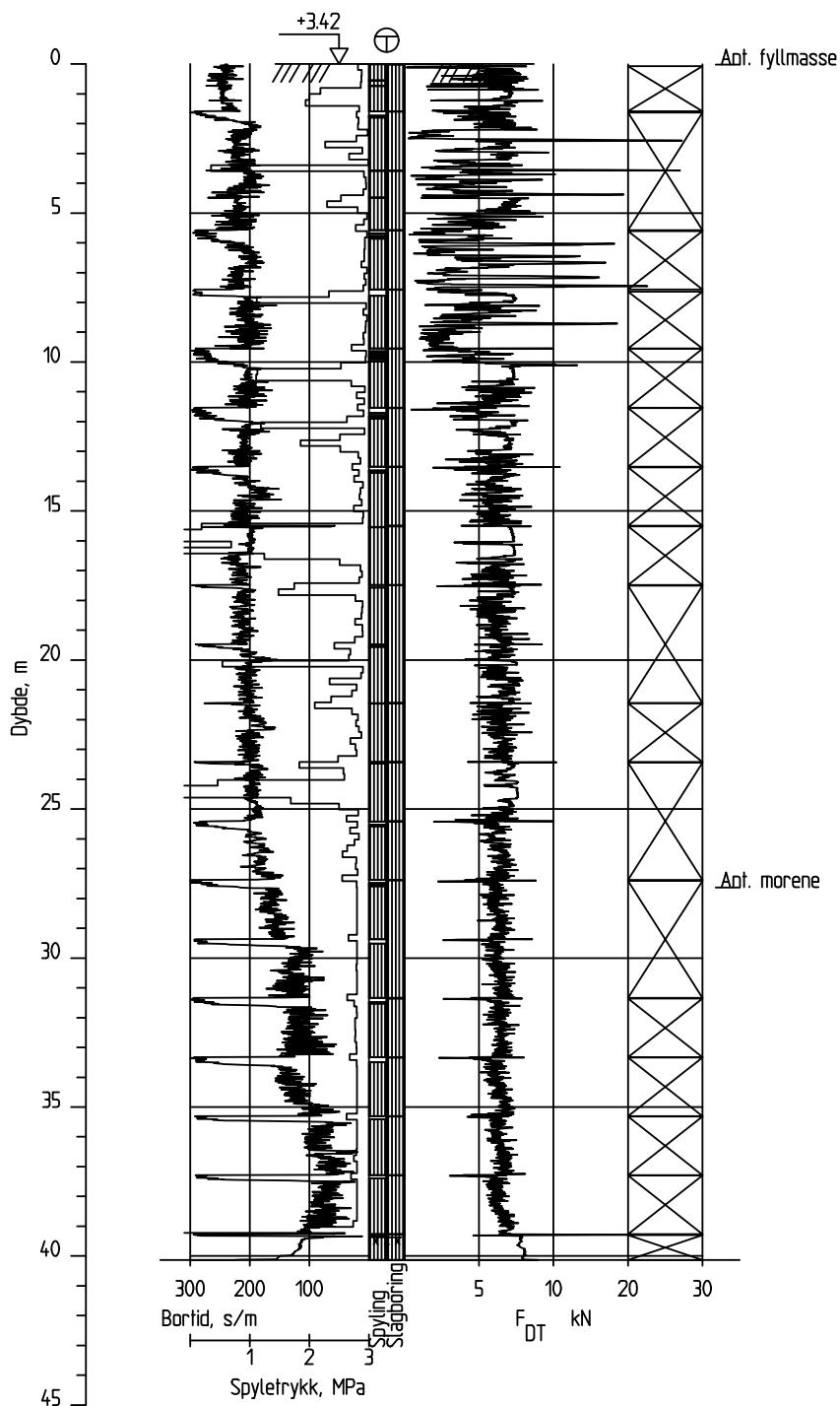


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Rev.	Date	Reason for Issue				Prepared	Checked	Approved					
01	2024-08-30	For review				BryOEy	GuMjo	JFS					
		Reason for Issue											
		PROJECT NAME: Smeaheia	FORMAT: A4	SCALE: 1:250	AREA/LOCATION: Austrevågen	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 155							
		equinor											
		PLANT SMEAHEIA	ORIGINATOR NAME Norconsult	PO. NO E316	ORIGIN. DRW. NO. 155	PROJECT NO 155	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.		
											SHT. NO.		
											REV. NO.		
											01		

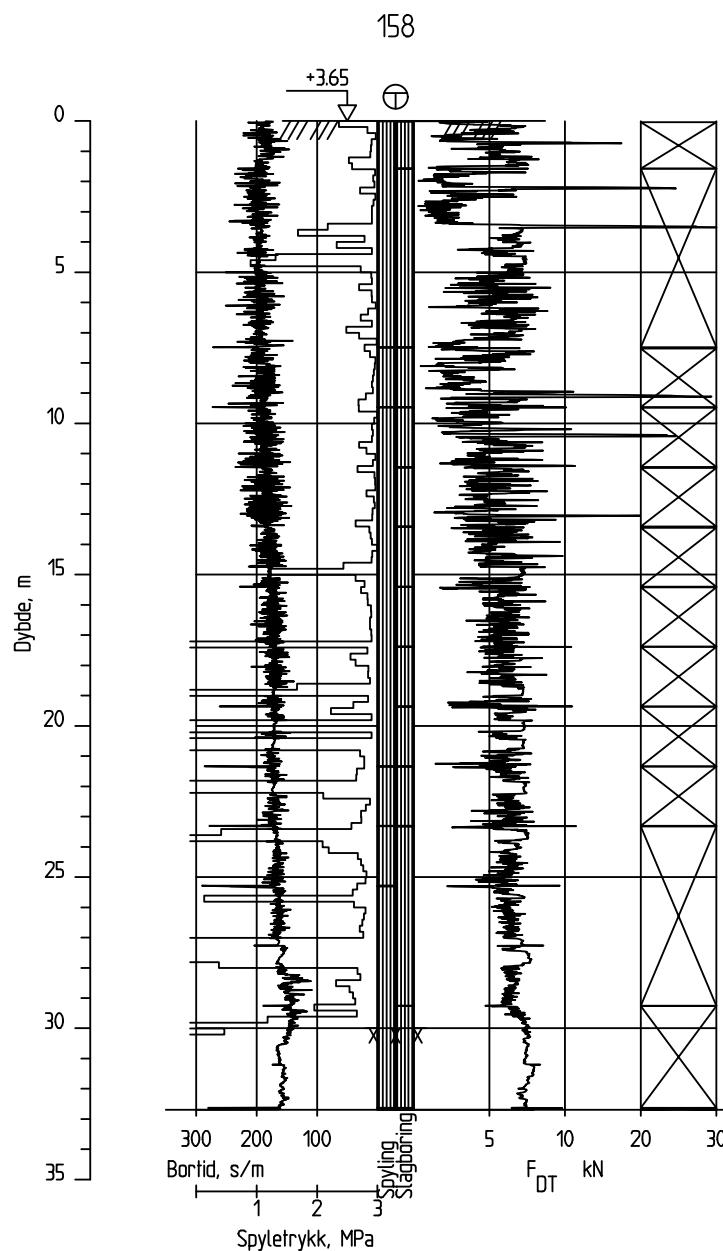


01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 156			
		SCALE 1:250				
		PLANT SMEAHEIA	ORIGINATOR NAME Norconsult	PO. NO E316	DRAWING NO.: 156	01
				ORIGIN. DRW. NO. 156	PROJECT NO.	PLANT PR. CODE
					ORIG. CODE	DISC. CODE
					DRW. TYPE	SEQUENCE NO.
					SHT. NO.	REV. NO.

157

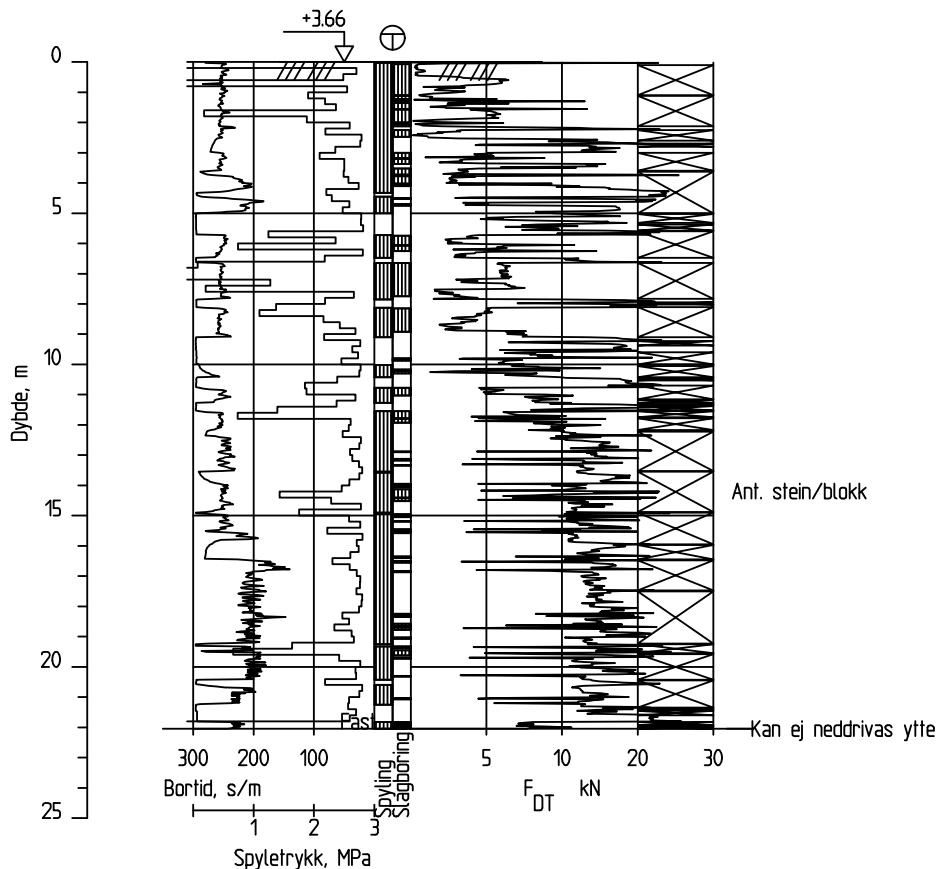


01	2024-08-30	For review		BryOEy GuMjo JFS						
Rev.	Date	Reason for Issue		Prepared Checked Approved						
 SMEAHEIA		PROJECT NAME	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 157							
		AREA/LOCATION								
		Austrevågen	FORMAT	SCALE						
			A4	1:250						
		PLANT	SMEAHEIA	ORIGINATOR NAME	PO. NO	DRAWING NO.:				
					-	E316				
					ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE
						157		SEQUENCE NO.	SHT. NO.	REV. NO.

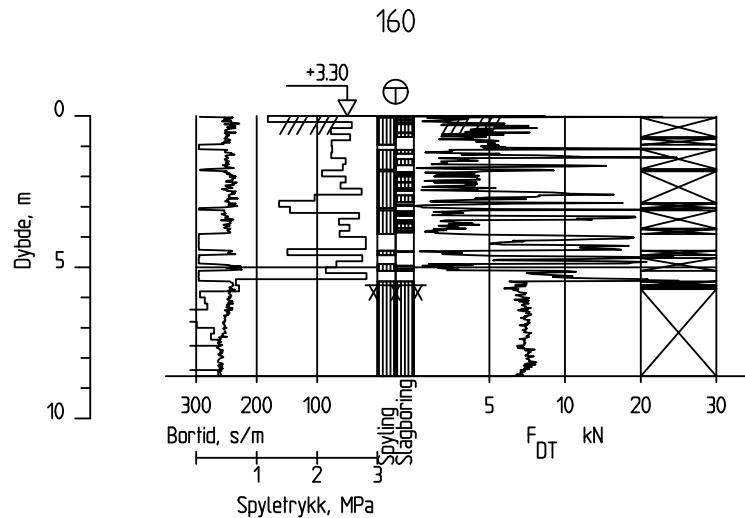


01		For review		BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue		Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study			
		AREA/LOCATION Austrevågen	Geotechnical field investigations			
		FORMAT A4	Total sounding profile 158			
		SCALE 1:250				
		ORIGINATOR NAME equinor	PO. NO E316	DRAWING NO.:		
			-			01
		PLANT SMEAHEIA	ORIGIN. DRW. NO. 158	PROJECT NO	PLANT PR. CODE	ORIG. CODE
					DISC. CODE	DRW. TYPE
					SEQUENCE NO.	SHT. NO.
					REV. NO.	

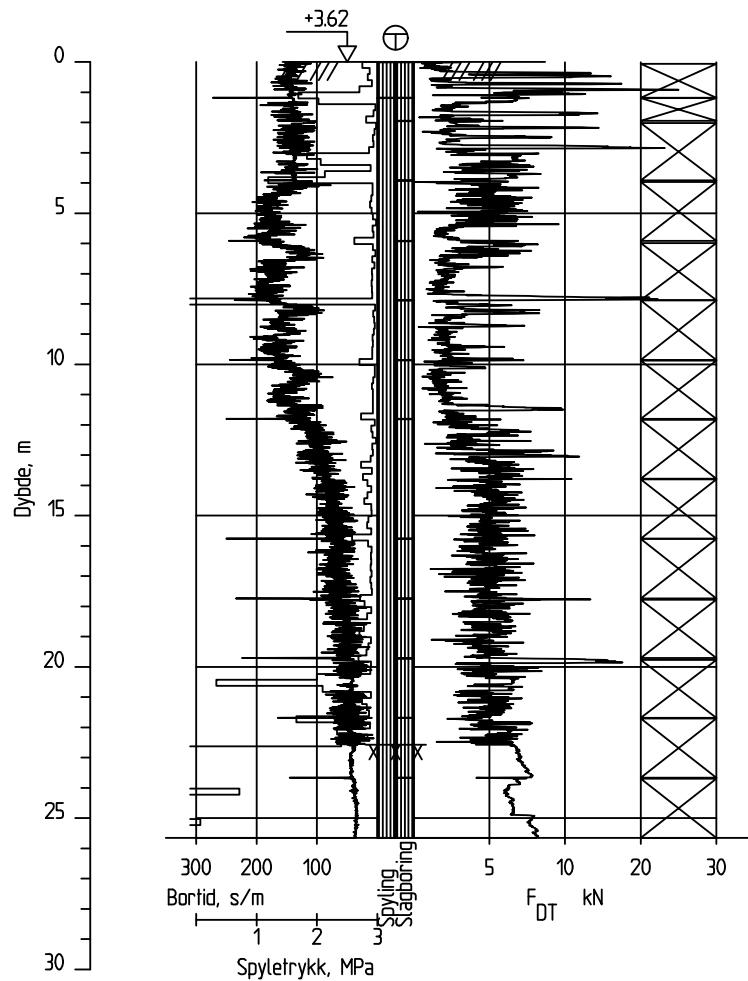
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01	2024-08-30	For review				BryOEy	GuMjo	JFS	
Rev.	Date	Reason for Issue				Prepared	Checked	Approved	
		PROJECT NAME Smeaheia		DRAWING TITLE: Smeaheia Site Preparation - Study					
		AREA/LOCATION Austrevågen		Geotechnical field investigations					
		FORMAT A4	SCALE 1:250	Total sounding profile 159					
		ORIGINATOR NAME equinor		PO. NO E316	DRAWING NO.:				
				ORIGIN. DRW. NO. 159	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	
							DRW. TYPE	SEQUENCE NO.	
							SHT. NO.	REV. NO.	

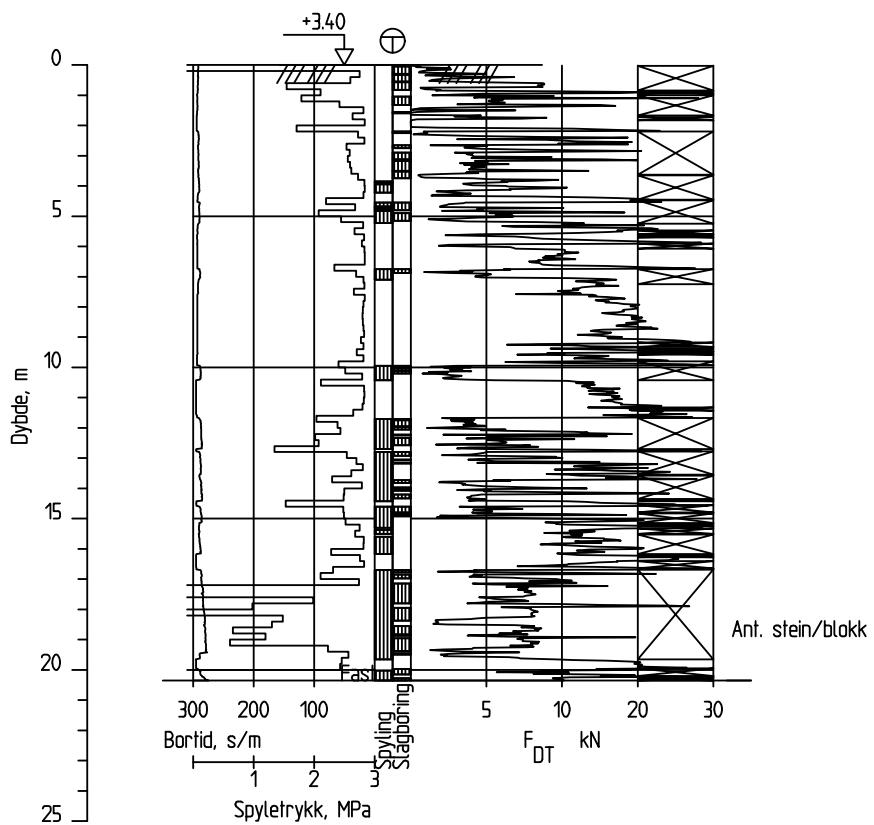


01	2024-08-30	For review	BryOEy	GuMjo	JFS				
Rev.	Date	Reason for Issue	Prepared	Checked	Approved				
		PROJECT NAME Smeaheia AREA/LOCATION Austrevågen FORMAT A4 SCALE 1:250 PLANT SMEAHEIA	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 160						
ORIGINATOR NAME	PO. NO	E316	DRAWING NO.:		01				
Norconsult	ORIGIN. DRW. NO.	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	SEQUENCE NO.	SHT. NO.	REV. NO.
	160								



01	2024-08-30	For review	BryOEy	GuMjo	JFS
Rev.	Date	Reason for Issue	Prepared	Checked	Approved
		PROJECT NAME Smeaheia	DRAWING TITLE: Smeaheia Site Preparation - Study Geotechnical field investigations Total sounding profile 161		
PLANT SMEAHEIA		AREA/LOCATION Austrevågen			
ORIGINATOR NAME	FORMAT	SCALE			
Norconsult	A4	1:250	PO. NO.	E316	DRAWING NO.:
			ORIGIN. DRW. NO.	PROJECT NO.	PLANT PR. CODE
			161	ORIG. CODE	DISC. CODE
				DRW. TYPE	SEQUENCE NO.
				SHT. NO.	REV. NO.

162



01		2024-08-30		For review					
Rev.	Date	Reason for Issue				Prepared	Checked	Approved	
		PROJECT NAME Smeaheia		DRAWING TITLE: Smeaheia Site Preparation - Study					
		AREA/LOCATION Austrevågen		Geotechnical field investigations					
		FORMAT A4	SCALE 1:250	Total sounding profile 162					
		ORIGINATOR NAME equinor	PO. NO -	DRAWING NO.: E316				01	
		Norconsult	ORIGIN. DRW. NO. 162	PROJECT NO	PLANT PR. CODE	ORIG. CODE	DISC. CODE	DRW. TYPE	
						SEQUENCE NO.	SHT. NO.	REV. NO.	