How we use gINT at GEO

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Agenda

- Who we are – Jens and Stine
- How/why GEO use gINT
- GEO logs

Who we are..

- Jens Galsgaard – Geologist

  Experienced in gINT output

  – Have designed the logs we use

- Stine Fogh – Project Engineer

  Experienced in importing data into gINT and exporting to AGS files

  - Have generated appropriate correspondance files

How/why GEO use gINT

- Produce borehole logs
- Produce AGS files and Excel files
- Primarily on offshore jobs
- Able to produce preliminary logs on-site
- The logs are dynamic – can be designed to the client's needs
- gINT is easy to use for non-programmers
- The database has a logic structure
- All parameters are assigned to a depth

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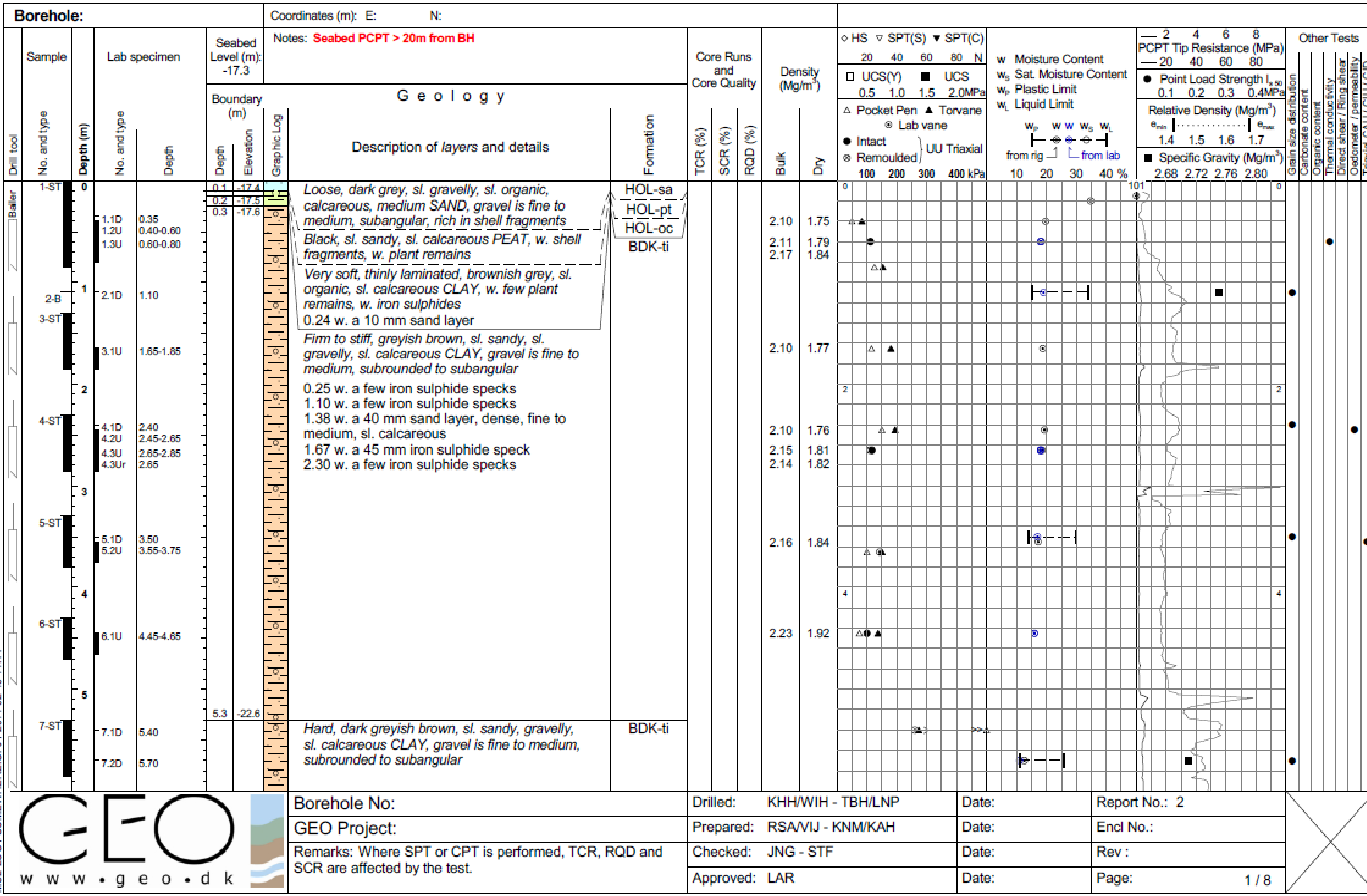
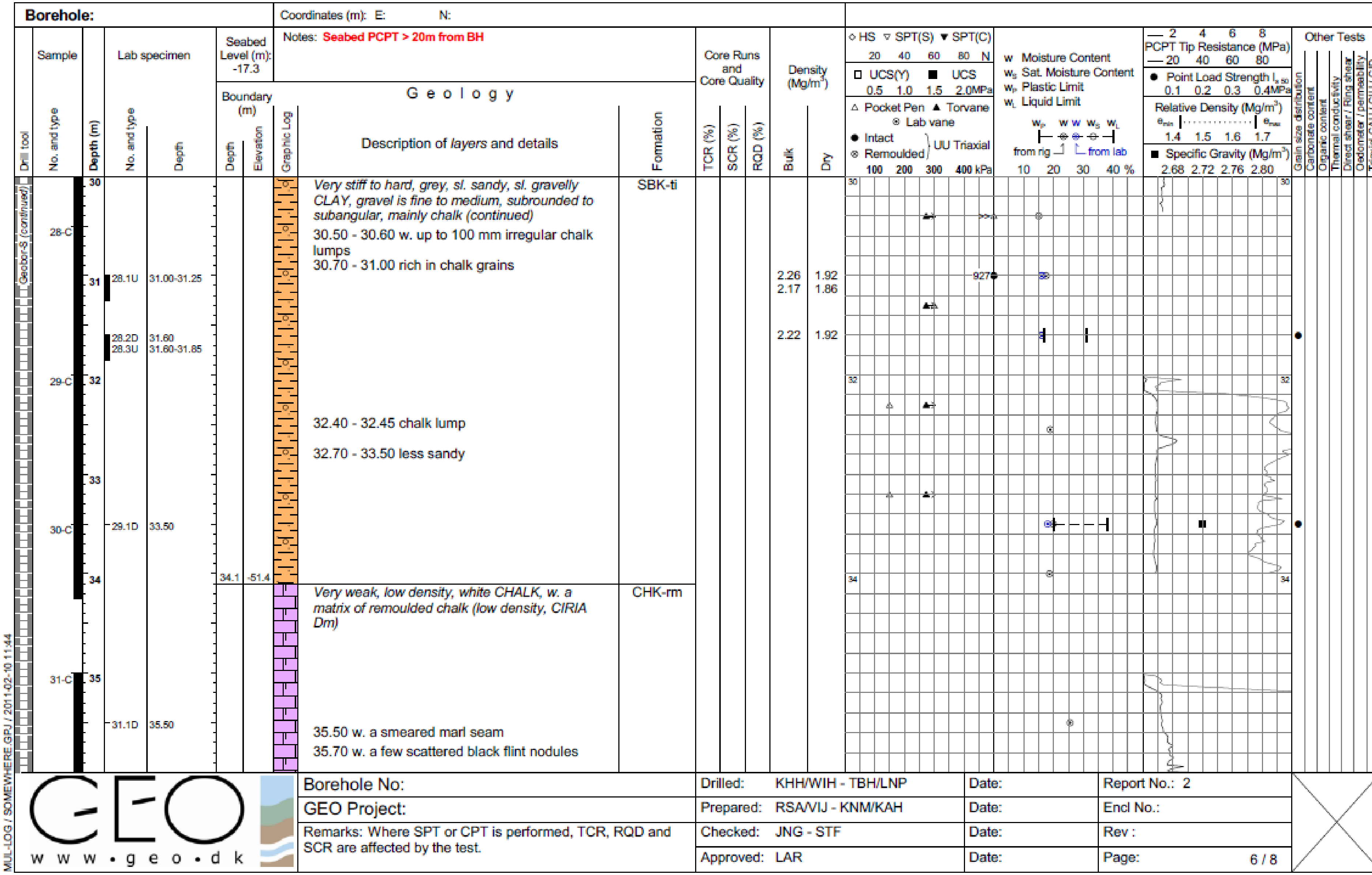
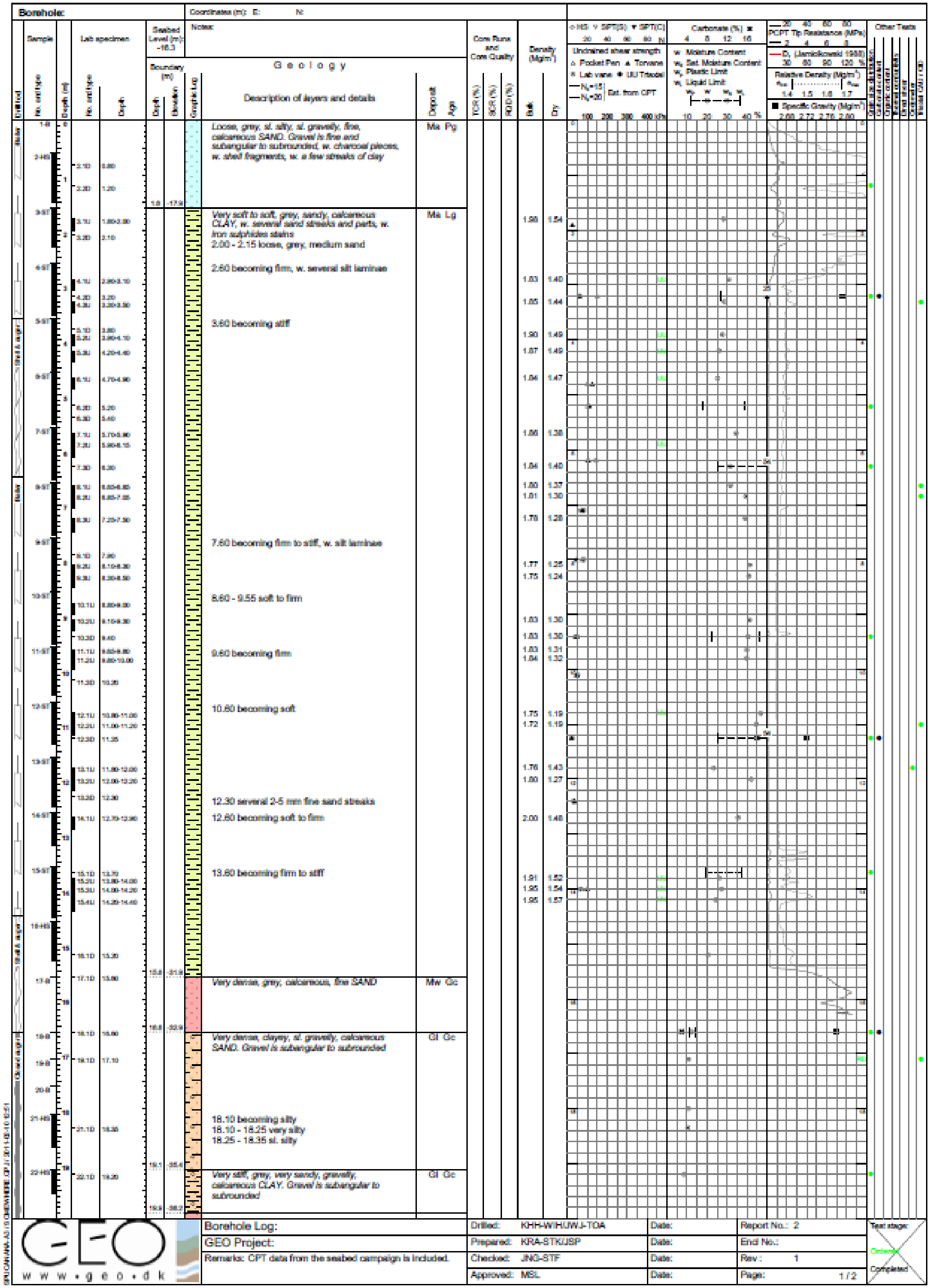
Offshore log - a site investigation in the UK



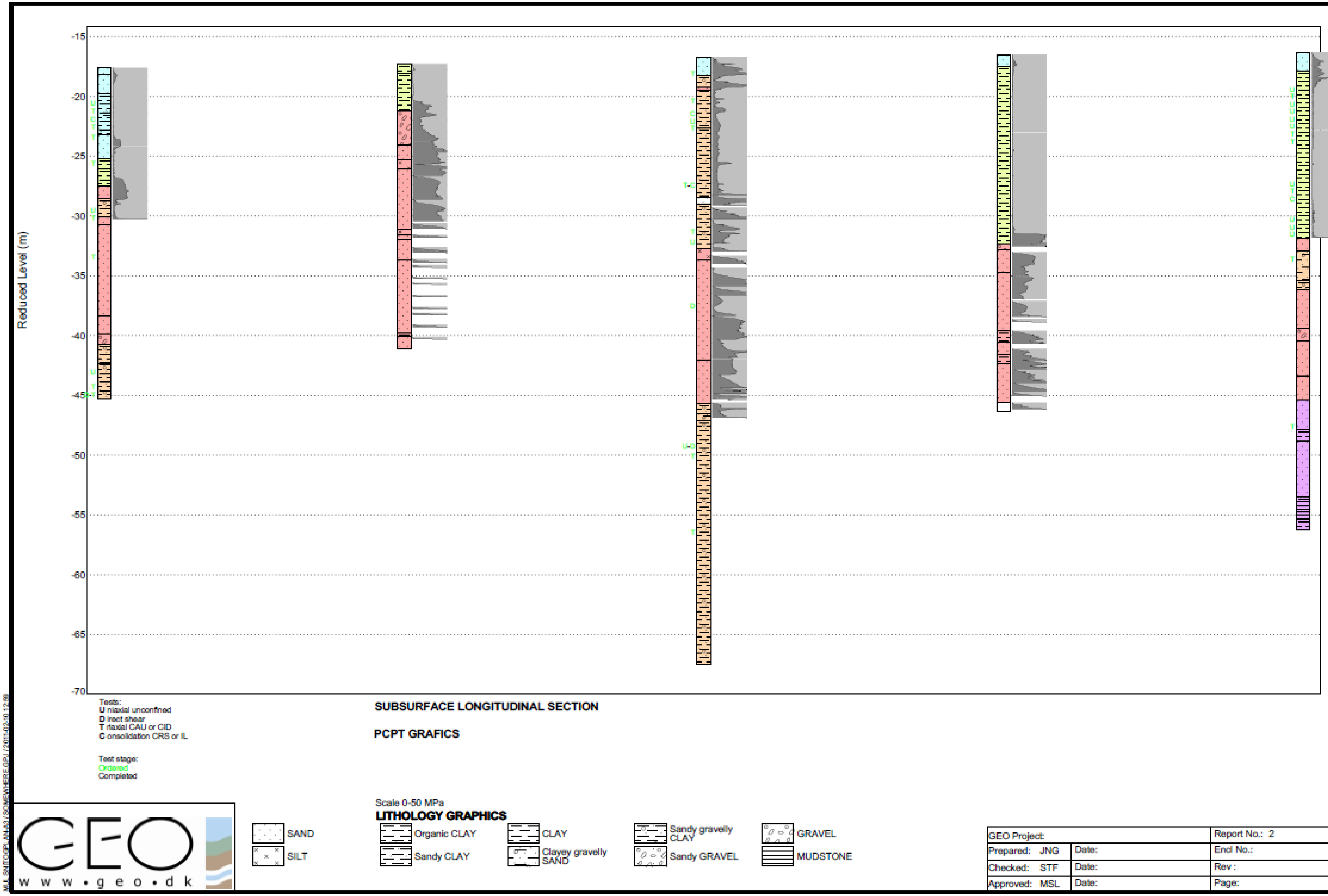
Offshore log – a site investigation in the UK

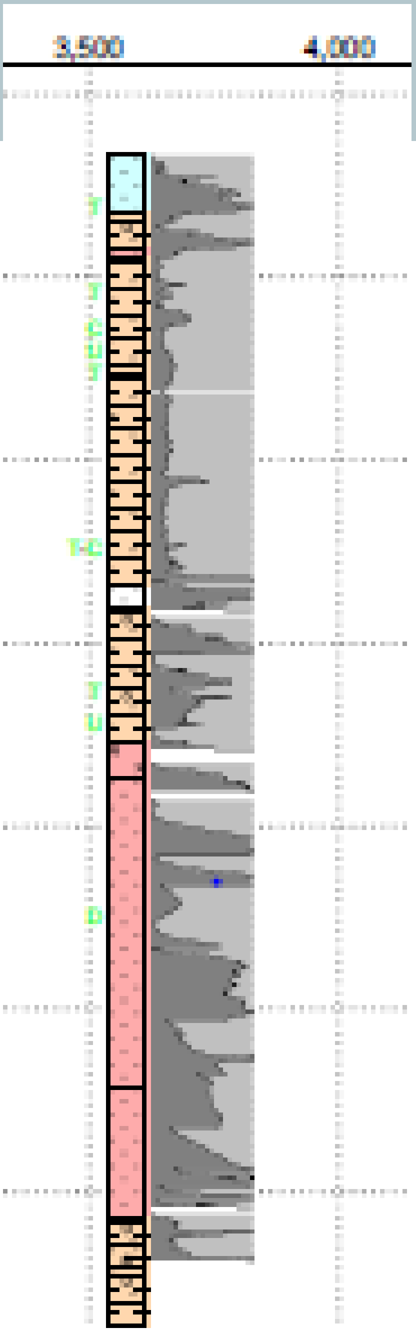


A3-portrait

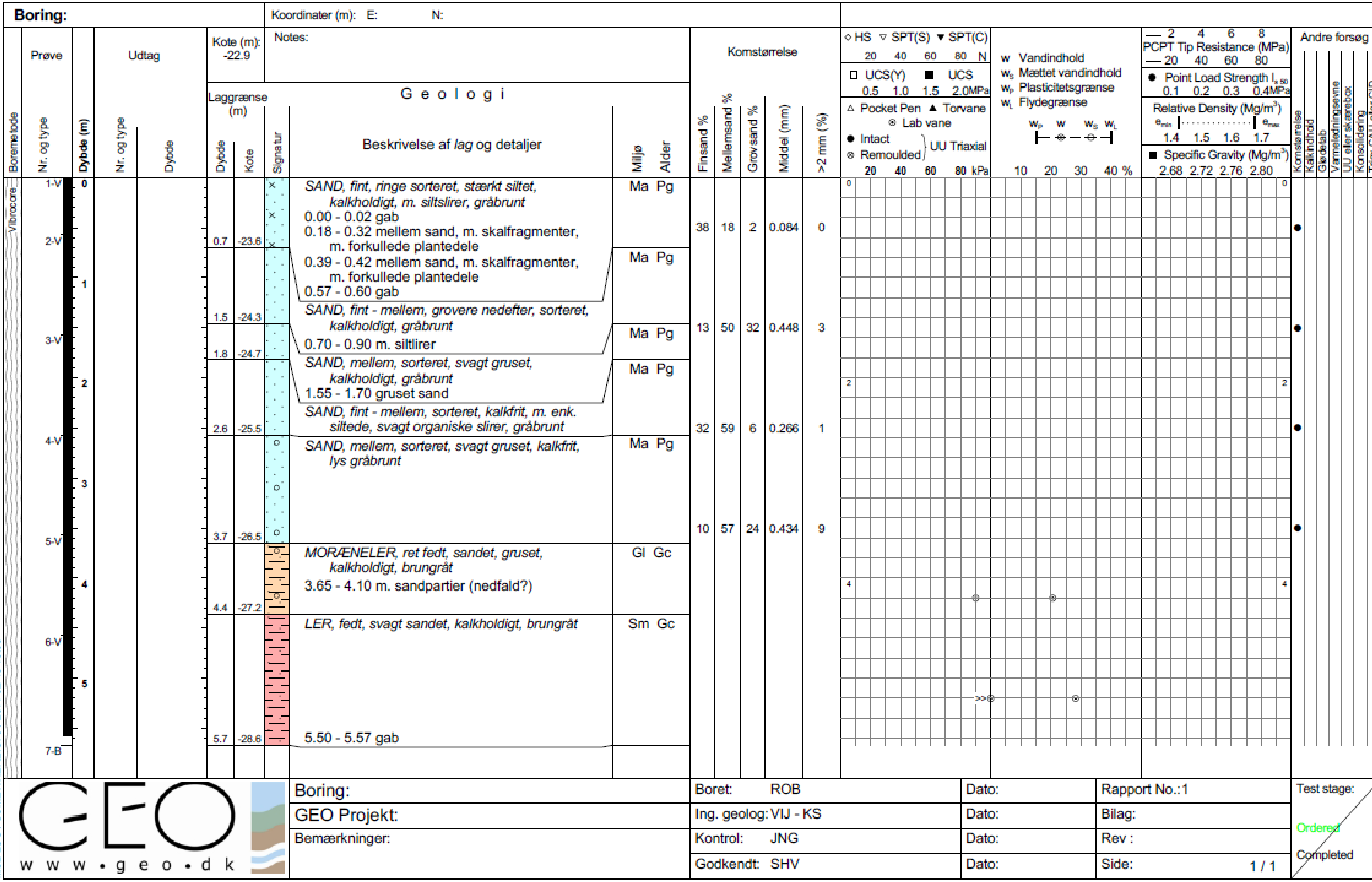

Borehole:
Geology
Description of layers and details
Loose, grey, sl. silty, sl. gravelly, fine, calcareous SAND. Gravel is fine and subangular to subrounded, w. charcoal pieces, w. shell fragments, w. a few streaks of clay
Very soft to soft, grey, sandy, calcareous CLAY, w. several sand streaks and parts, w. iron sulphides stains
2.00 - 2.15 loose, grey, medium sand
2.60 becoming firm, w. several silt laminae
3.60 becoming stiff
7.60 becoming firm to stiff, w. silt laminae
8.60 - 9.55 soft to firm
9.60 becoming firm
10.60 becoming soft
12.30 several 2-5 mm fine sand streaks
12.60 becoming soft to firm
13.60 becoming firm to stiff
Very dense, grey, calcareous, fine SAND
Very dense, clayey, sl. gravelly, calcareous SAND. Gravel is subangular to subrounded
18.10 becoming silty
18.10 - 18.25 very silty
18.25 - 18.35 sl. silty
Very stiff, grey, very sandy, gravelly, calcareous CLAY. Gravel is subangular to subrounded
Borehole Log:
GEO Project:
Remarks: CPT data from the seabed campaign is included.
Drilled: KHH-WIHU/WJ-TOA
Prepared: KRA-STK/JSP
Checked: JNG-STF
Approved: MSL
Report No.: 2
Rev.: 1
Page: 1 / 2

Fence – A3 landscape

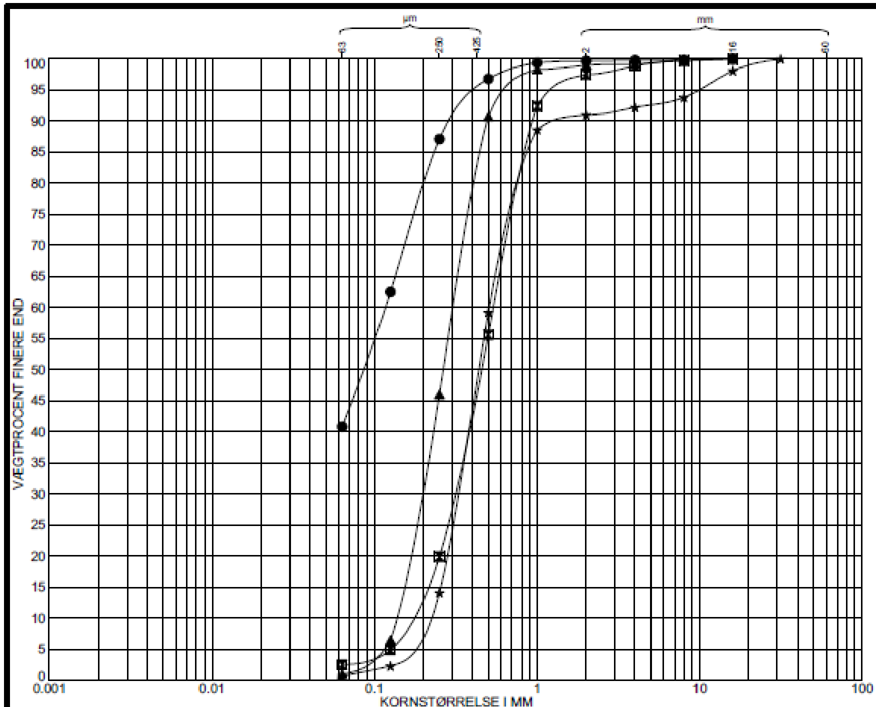



3,500
4,000

Danish standards log – Vibrocore & sieve data



Danish standards - grainsize



LER	FIN	MELLEM	GROV	FIN	MELLEM	GROV	FIN	MELLEM	GROV	STEN
	SILT			SAND			GRUS			

Signatur	●	⊠	▲	★	
Boring					
Prøve	1	2	3	4	
Dybde (m)	0.50	1.50	2.50	3.50	
Jordart	Ma Pg	Ma Pg	Ma Pg	Ma Pg	
d_{50}	0.084	0.448	0.266	0.434	
$U = d_{60} / d_{10}$		3.4	2.3	2.6	
$C_C = d_{30}^2 / d_{10} * d_{60}$		1.1	0.9	1.0	
IP = WL - WP	= -	= -	= -	= -	= -
Aktivitet IA = IP/Ler%	= /	= /	= /	= /	= /
Kalkindhold (%)					
Glødetab (%)					
Korndensitet (Mg/m3)					

Note:

KORNSTØRRELSESFORDELING

w w w • g e o • d k

GEO Projekt:		Bilag:
Forsøg: VBM - EMB	Dato:	Rapport: 1
Kontrol: JNG	Dato:	Rev.:
Godkendt: SHV	Dato:	Side 1

w w w • g e o • d k

Signatur	●	⧗	▲	★
Boring				
Prøve	**1**	**2**	**3**	**4**
Dybde (m)	**0.50**	**1.50**	**2.50**	**3.50**
Jordart	**Ma Pg**	**Ma Pg**	**Ma Pg**	**Ma Pg**
d_{50}	**0.084**	**0.448**	**0.266**	**0.434**
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IP = WL - WP	= -	= -	= -	= -
Aktivitet IA = IP/Ler%	= /	= /	= /	= /
Kalkindhold (%)				
Glødetab (%)				
Korndensitet (Mg/m3)				

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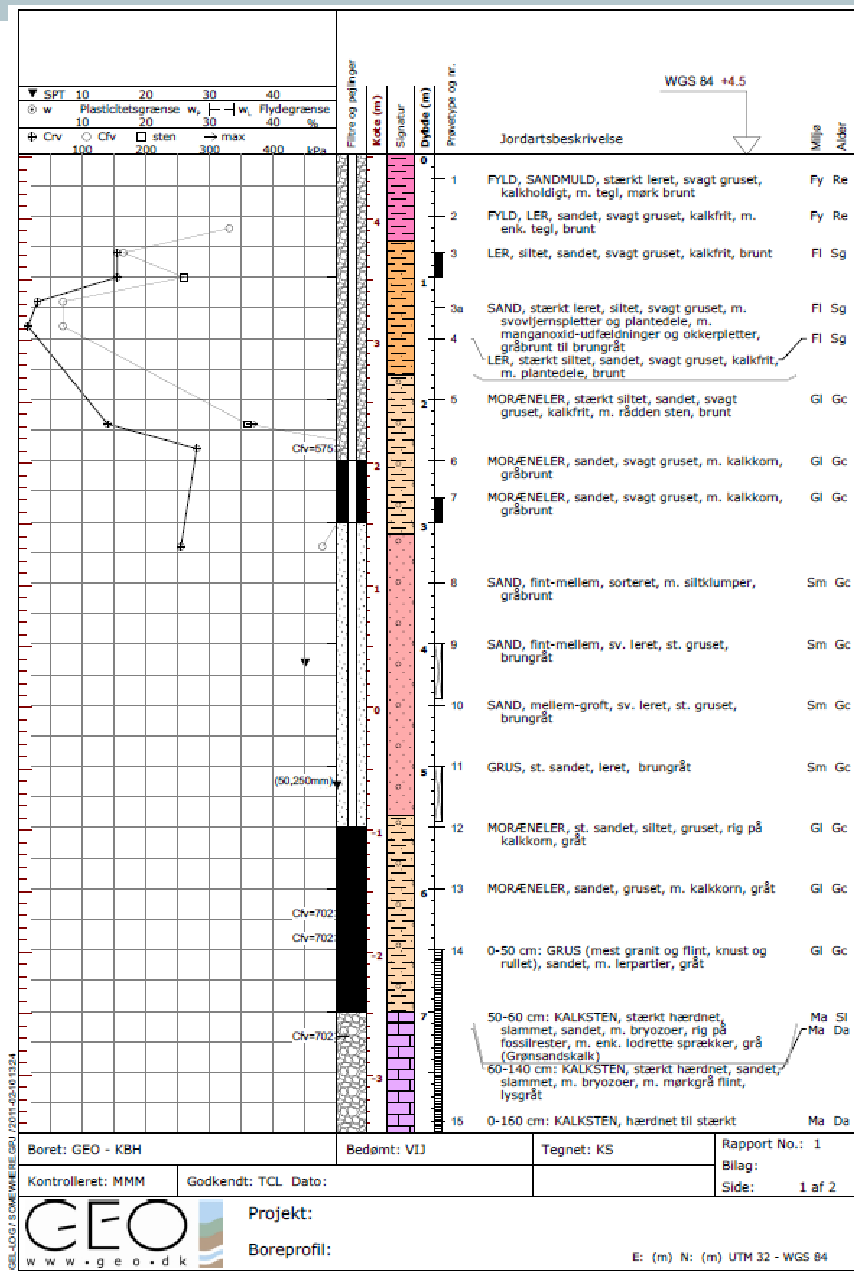
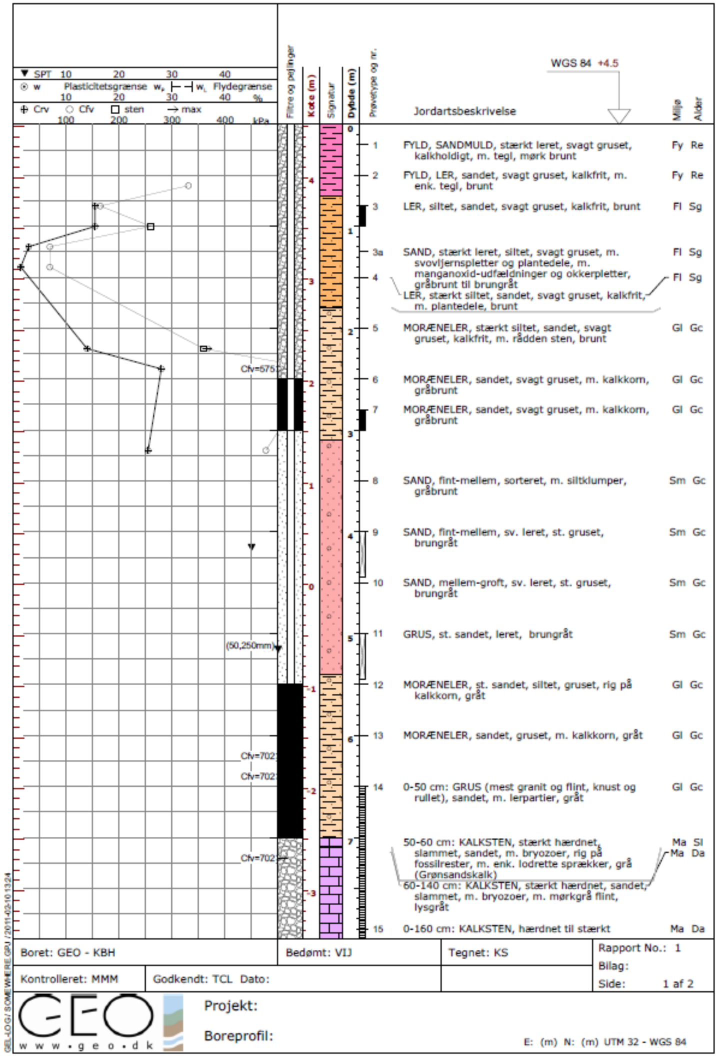
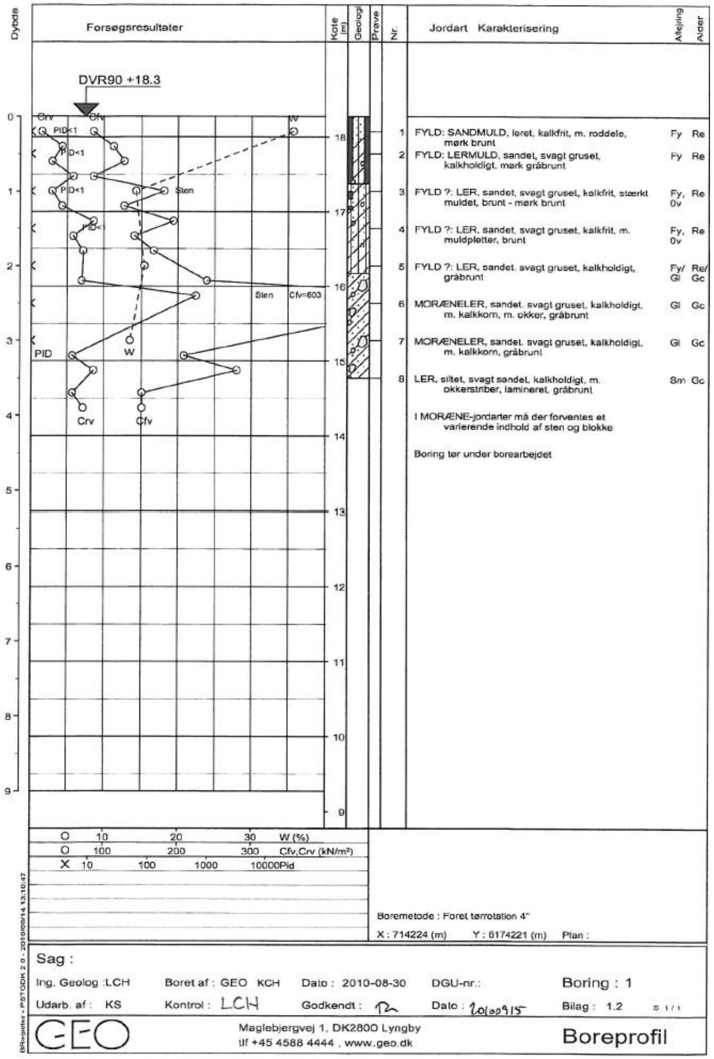
GEO – Geotechnical on-shore log (in Danish)



Logs - gINT Vs. GEOGIS





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How we use gINT at GEO

Thank you for your attention

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