

Profile of borehole G2

Drilling: LOTOS Petrobaltic S.A., Miliana Shipmanagement, Armada R8
Data: 19-23 March 2023
Location: Baltic Sea - Lithuania, LT 700 MW
Client: Garant Diving

Geological supervision: M.Bohdziewicz, J.Nocoń
Drilling manager: Mazli Abdul Aziz
Drilling supervision: Paweł Sokółski
Norm: ISO 14688-1

Vessel: psv Sylur
Drilling unit: ARB 25-18
Mud: Guar Gum
Drilling: Geobor S

Length of the core [m]: 29,78
Depth of borehole [m]: 75
TCR [%]: 39,71

| Number of layer | Depth of layer | | | Samples | | | Geological description | Symbole | Consistence | cohesive / non cohesive | density [g/cm ³] | water content [%] | Offshore lab tests | | | Number of run | Interval [m] | | Drilling | | Recovery [%] | Type of sampler | | |
|-----------------|----------------|-------|-----------------|---------|-------|-------------------|--|---------|-------------|-------------------------|------------------------------|-------------------|--------------------|-------------------|---------------|---------------|------------------------------------|-------------------|----------|------|--------------|-----------------|-----------------------|------------------------|
| | From | To | Lenght of layer | From | To | Lenght of samples | | | | | | | Type of samples | depth of test [m] | torvane [kPa] | | penetrometer [kg/cm ²] | CaCO ₃ | From | To | | | Lenght of the run [m] | Lenght of the core [m] |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0,00 | 0,32 | 0,32 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2 | 0,32 | 1,30 | 0,98 | 0,80 | 1,00 | 0,20 | A1 sandy CLAY, single grains of gravel, greish-brown | grsaCl | stiff | cohesive | 2,37 | 17,99 | 0,50 1,30 | 134,75 85,75 | 4,25 1,25 | H | 1 | 0 | 1,3 | 1,3 | 0,98 | 75,38 | CB | |
| 3 | 1,30 | 1,51 | 0,21 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 4 | 1,51 | 2,50 | 0,99 | 2,00 | 2,25 | 0,25 | A1 sandy CLAY, single grains of gravel, greish-brown | grsaCl | stiff | cohesive | 2,33 | 17,30 | 1,70 2,00 | 83,3 139,65 | 1,75 2,75 | C | 2 | 1,3 | 2,5 | 1,2 | 0,99 | 82,50 | CB | |
| 5 | 2,50 | 2,80 | 0,30 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6 | 2,80 | 3,70 | 0,90 | 3,10 | 3,30 | 0,20 | A1 gravelly sandy CLAY, greish-brown | grsaCl | stiff | cohesive | 2,25 | 18,78 | 3,40 | 110,25 | 3,5 | C | 3 | 2,5 | 3,7 | 1,2 | 0,9 | 75,00 | CB | |
| 7 | 3,70 | 4,20 | 0,50 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 8 | 4,20 | 4,90 | 0,70 | 4,30 | 4,60 | 0,30 | A1 gravelly sandy CLAY, greish-brown | - | stiff | cohesive | 2,22 | 7,47 | 4,30 | >250 | 2,25 | C | 4 | 3,7 | 4,9 | 1,2 | 0,7 | 58,33 | CB | |
| 9 | 4,90 | 5,10 | 0,20 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 10 | 5,10 | 5,80 | 0,70 | 5,30 | 5,60 | 0,30 | A1 sandy CLAY, greish-brown | - | stiff | cohesive | 1,81 | 11,21 | 5,2 | >250 | >4,5 | C | 5 | 4,9 | 6,1 | 1,2 | 1 | 83,33 | CB | |
| 11 | 5,80 | 6,10 | 0,30 | - | - | - | sandy CLAY, greish-brown | - | v.stiff | cohesive | 2,64 | - | 5,9 | >250 | >4,5 | C | - | - | - | - | - | - | - | |
| 12 | 6,10 | 7,30 | 1,20 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 13 | 7,30 | 8,50 | 1,20 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 14 | 8,50 | 9,50 | 1,00 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 15 | 9,50 | 9,70 | 0,20 | 9,50 | 9,70 | 0,20 | B3 silty SAND, single grains of gravel, grey | siSa | - | non cohesive | - | 35,79 | - | - | - | N.C | 8 | 8,5 | 9,7 | 1,2 | 0,2 | 16,67 | CB | |
| 16 | 9,70 | 10,25 | 0,55 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 17 | 10,25 | 10,50 | 0,25 | 10,25 | 10,50 | 0,25 | B3 FINE SAND, single grains of gravel, grey | grFsa | - | non cohesive | - | 32,61 | - | - | - | N.C | 9 | 9,7 | 10,9 | 1,2 | 0,65 | 54,17 | CB | |
| 18 | 10,50 | 10,90 | 0,40 | 10,50 | 10,70 | 0,20 | B3 silty SAND, grey | siSa | - | non cohesive | - | 25,55 | - | - | - | N.C | - | - | - | - | - | - | - | |
| 19 | 10,90 | 11,40 | 0,50 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 20 | 11,40 | 11,55 | 0,15 | 11,40 | 11,55 | 0,15 | B3 FINE SAND, grey | Fsa | - | non cohesive | - | - | - | - | - | N.C | 10 | 10,9 | 12,1 | 1,2 | 0,7 | 58,33 | CB | |
| 21 | 11,55 | 12,00 | 0,45 | 11,70 | 12,00 | 0,30 | B3 SILT, grey | Si | stiff | cohesive | - | 23,82 | 11,7 | 49 | 4,5 | C | - | - | - | - | - | - | - | |
| 22 | 12,00 | 12,10 | 0,10 | 12,00 | 12,10 | 0,10 | A1 silty SAND, grey | siSa | - | non cohesive | - | - | - | - | - | N.C | - | - | - | - | - | - | - | |
| 23 | 12,10 | 12,40 | 0,30 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 24 | 12,40 | 13,10 | 0,70 | 12,65 | 13,00 | 0,35 | A1 SILT, grey | Si | stiff | cohesive | 2,11 | 16,37 | 12,6 | >250 | >4,5 | C | 11 | 12,1 | 13,3 | 1,2 | 0,9 | 75,00 | CB | |
| 25 | 13,10 | 13,30 | 0,20 | 13,10 | 13,30 | 0,20 | B3 FINE SAND, grey | Fsa | - | non cohesive | - | - | - | - | - | N.C | - | - | - | - | - | - | - | |
| 26 | 13,30 | 13,52 | 0,22 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 27 | 13,52 | 14,50 | 0,98 | 14,00 | 14,30 | 0,30 | B3 sandy SILT, dark grey, laminated with organic matter, in the bottom laminated with sand | siSa | firm | cohesive | 2,10 | 34,59 | 14 14,5 | 23,52 15,68 | 2,7 3 | N.C | 12 | 13,3 | 14,5 | 1,2 | 0,88 | 73,33 | CB | |
| 28 | 14,50 | 15,02 | 0,52 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 29 | 15,02 | 15,48 | 0,46 | 15,20 | 15,40 | 0,20 | B3 SILT, grey | Si | soft | cohesive | 2,05 | 31,23 | 15,2 | 16,66 | 2 | N.C | 13 | 14,5 | 15,7 | 1,2 | 0,67 | 55,83 | CB | |
| 30 | 15,48 | 15,70 | 0,22 | 15,50 | 15,70 | 0,20 | B3 FINE SAND, grey | Fsa | - | non cohesive | - | 31,23 | - | - | - | N.C | - | - | - | - | - | - | - | |
| 31 | 15,70 | 16,57 | 0,87 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 32 | 16,47 | 16,90 | 0,43 | 16,70 | 16,90 | 0,20 | B3 FINE SAND, grey | Fsa | - | non cohesive | - | 28,16 | - | - | - | N.C | 14 | 15,7 | 16,9 | 1,2 | 0,33 | 27,50 | CB | |
| 33 | 16,90 | 17,30 | 0,40 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 34 | 17,30 | 17,62 | 0,32 | 17,40 | 17,50 | 0,10 | B3 GRAVEL, grey, admixture of medium sand | Gr | - | non cohesive | - | - | - | - | - | S.C | 15 | 16,9 | 18,1 | 1,2 | 0,7 | 58,33 | CB | |
| 35 | 17,62 | 17,89 | 0,27 | 17,65 | 17,80 | 0,15 | B3 sandy SILT, grey, admixture of gravel | saSi | v.soft | cohesive | - | 18,91 | - | - | - | S.C | - | - | - | - | - | - | - | |
| 36 | 17,89 | 18,10 | 0,21 | 17,90 | 18,05 | 0,15 | B3 silty FINE SAND, grey | saFsa | - | non cohesive | - | 16,75 | - | - | - | N.C | - | - | - | - | - | - | - | |
| 37 | 18,10 | 18,70 | 0,60 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 38 | 18,70 | 19,05 | 0,35 | 18,80 | 19,00 | 0,20 | B3 silty CLAY, grey | siCl | soft | cohesive | 1,92 | 21,32 | 18,9 | 30,38 | 2 | C | 16 | 18,1 | 19,3 | 1,2 | 0,6 | 50,00 | CB | |
| 39 | 19,05 | 19,30 | 0,25 | 19,10 | 19,20 | 0,10 | B3 SILT, grey | Si | firm | - | 1,74 | 19,53 | 19,15 | 34,3 | 2 | H | - | - | - | - | - | - | - | |
| 40 | 19,30 | 20,60 | 1,30 | 19,60 | 19,90 | 0,30 | A1 SILT, grey, locally laminated with sand, in the bottom laminated with clay | Si | v.stiff | cohesive | 1,99 | 12,44 | 19,6 | 73,5 | 3 | C | 17 | 19,3 | 20,6 | 1,3 | 1,3 | 100,00 | CB | |
| 41 | 20,60 | 21,75 | 1,15 | 20,10 | 20,50 | 0,40 | A1 | - | - | - | 2,12 | 8,10 | 20,5 | 159,25 | >4,5 | - | - | - | - | - | - | - | - | |
| 42 | 21,75 | 22,00 | 0,25 | 21,80 | 21,90 | 0,10 | B3 sandy CLAY, greish-brown, single grains of gravel, locally laminated with grey silt | - | - | - | - | 2,04 | 20,7 | >250 | >4,5 | - | - | - | - | - | - | - | - | |
| 43 | 22,00 | 22,10 | 0,10 | - | - | - | Gap of the core | - | - | - | 2,02 | 5,08 | - | - | - | C | 18 | 20,6 | 22 | 1,4 | 1,4 | 100,00 | CB | |
| 44 | 22,10 | 23,00 | 0,90 | - | - | - | sandy SILT, grey | saSi | firm | cohesive | 1,97 | 4,90 | 21,5 | >250 | >4,5 | - | - | - | - | - | - | - | - | |
| 45 | 23,00 | 23,20 | 0,20 | 23,00 | 23,20 | 0,20 | A1 gravelly silty CLAY, grey | grsiCl | v.stiff | - | - | 1,92 | 9,15 | 22,4 | 61,25 | 1 | C | 19 | 22 | 23,2 | 1,2 | 1,1 | 91,67 | CB |
| 46 | 23,20 | 23,40 | 0,20 | - | - | - | Gap of the core | - | - | - | - | - | 23 | >250 | >4,5 | C | - | - | - | - | - | - | - | |
| 47 | 23,40 | 24,40 | 1,00 | 23,50 | 23,70 | 0,20 | B3 FINE SAND, grey | Fsa | - | non cohesive | - | 1,60 | - | - | - | N.C | 20 | 23,2 | 24,4 | 1,2 | 1 | 83,33 | CB | |
| 48 | 24,40 | 24,60 | 0,20 | - | - | - | Gap of the core | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 49 | 24,60 | 25,10 | 0,50 | 24,80 | 24,90 | 0,10 | B3 FINE SAND, grey | Fsa | - | non cohesive | - | - | - | - | - | N.C | 21 | 24,4 | 25,6 | 1,2 | 1 | 83,33 | CB | |
| 50 | 25,10 | 25,60 | 0,50 | 25,10 | 25,35 | 0,25 | A1 gravelly silty CLAY, grey | grsiCl | v.stiff | cohesive | 2,28 | 12,43 | 25,1 | >250 | >4,5 | C | 22 | 25,6 | 27 | 1,4 | 1,4 | 100,00 | CB | |
| 51 | 25,60 | 27,00 | 1,40 | 25,80 | 26,20 | 0,40 | A1 gravelly silty CLAY, grey | grsiCl | v.stiff | cohesive | - | - | 26,2 | >250 | >4,5 | - | - | - | - | - | - | - | - | |
| 52 | 27,00 | 27,15 | 0,15 | 26,60 | 27,00 | 0,40 | A1 | grsiCl | v.stiff | cohesive | 2,22 | 13,60 | 26,6 | >250 | | | | | | | | | | |