

ENVI VANE SHEAR TEST SYSTEM



The new Envi Vane Shear Test System.



You can run the system as a traditional vane system with torque measurement above ground, but you can (and should) also use the probe that we call Memovane™ for measuring torque directly on the vane without friction losses.

After completing a vane tests in one hole you can create a file with resulting data. The system also creates a report with graphs showing measured torque at failure and a table of shear strength and sensitivity etc:

Sondering med Envi vingsystem

UTFÖRARE

Företag: Envi
Fältingenjör: Per

IDENTIFIERINGAR

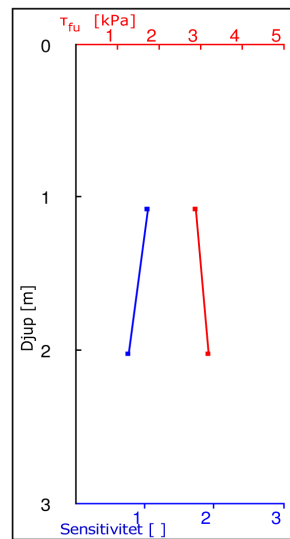
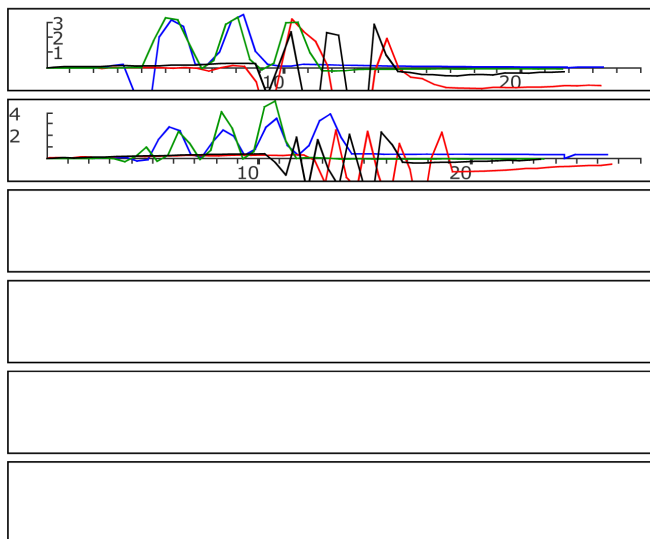
Benämning
Projekt: Test
Sondering: Test2
Instrument:
Datum: 2014-01-07
Plats: Mossen
Koordinater: X = 34; Y = 56; Z = 78

VINGTYP

Diameter 65

VINGFÖRSÖK

dräneradSkjuvhållfasthet



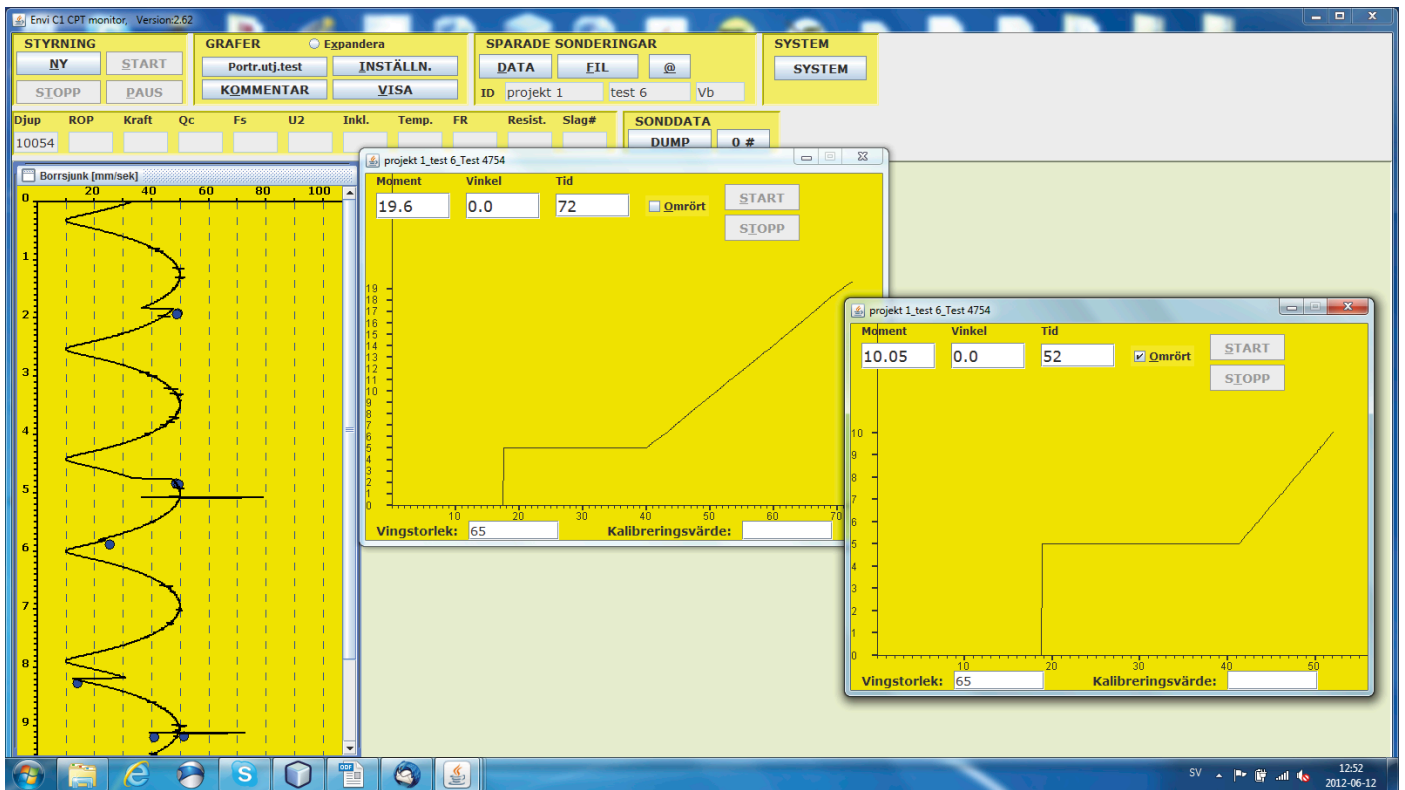
Djup [m]	M _{v, f} [Nm]	M _v [Nm]	M _{rv, f} [Nm]	M _{rv} [Nm]	T _v [kPa]	T _{rv} [kPa]	S _{iv} [°]	W _L [%]	μ [°]	T _{fu} [kPa]
1,08	0,0	3,533	0,0	3,359	3,5	3,3	1,06	65	0,83	2,9
2,03	0,0	3,93	0,0	5,073	3,9	5,0	0,78	65	0,83	3,2

Teckenförklaring

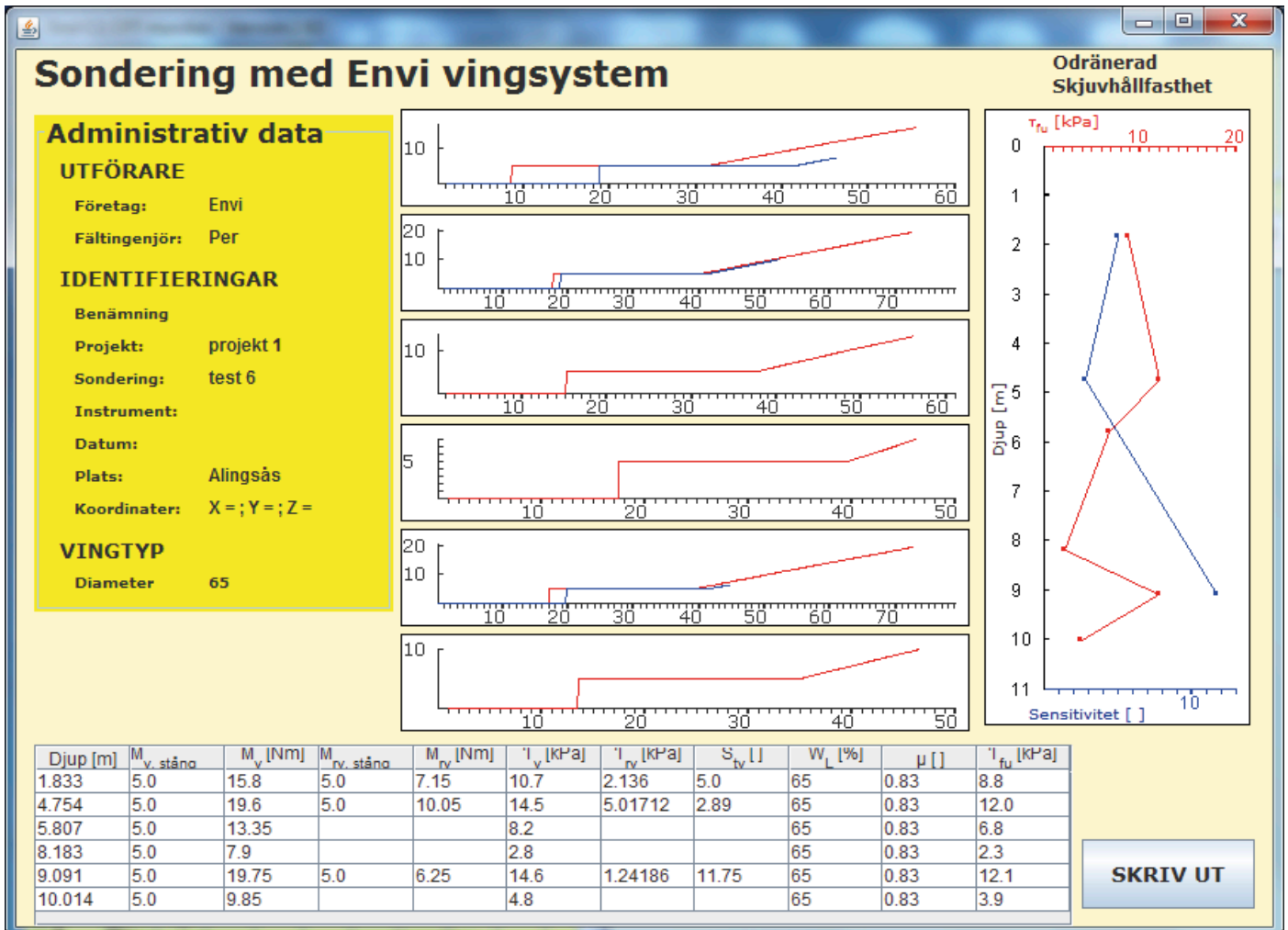
- Mv, gs
- Mrv, gs
- Mv, IS
- Mrv, IS

During the test you can see the exact depth of the probe. You can also see all the vane shear tests the has been conducted in the bore hole or test pit. If you want to view the result of a test you can at any time click on the round blue dot that indicates each individual test. Both the normal and the shear test (if it exists) will then be expanded and plotted.

The image below shows how this looks.



Once done with your vane shear tests, click the button STOP and then create the report by clicking the button FILE. By doing this a SGF standard file is created as well as this report:



Depth	Calculated and logged by the system
Friction Torque	Calculated by the system but can be manually corrected
Maximum measured torque	Calculated by the system
Friction Torque shear test	Calculated by the system but can be manually corrected
Maximum torque shear test	Calculated by the system
Shear strength	Calculated by the system (Friction Torque not counting)
Shear strength shear test	Calculated by the system (Friction Torque not counting)
Sensitivity	Calculated by the system
Liquid limit	Defaults to 65% but can be altered by right click in the graph that is subject to change
Correction factor (my)	Calculated by the system based on the liquid limit. Even this parameter can be changed manually.
Undrained shear strength	Calculated based on the Shear strength multiplied by my

Produced, developed and manufactured in Sweden.

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