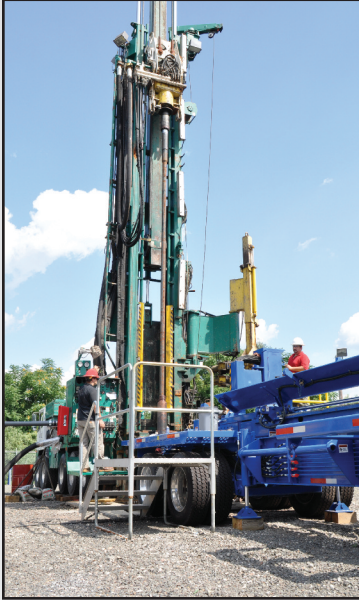


**Engineering, Testing & Manufacturing Services**



# Drilling Test Facility

APS Technology's Drilling Test Facility at our Wallingford, CT headquarters is built for:

- > Customer training for rigsite drill string assembly, tool configuration and data retrieval, tool operation in-hole, and surface system operation
- > APS design qualification testing and continuous improvement

Our current equipment list includes:

**Schramm T130XD Drill Rig**

- > 130,000 lb (59,090 kg) pullup / 32,000 lb (14,500 kg) pulldown
- > 106,600 in-lb (12,045 N-m) drilling torque
- > 28 in. (711 mm) table opening
- > 50 ft. (15.25 m) top drive travel
- > NC40 top drive thread
- > 0 - 143 RPM, infinitely variable
- > 3 in. dia. spindle thru-hole
- > Deck engine: 760 bhp (567 kW); 2,188 ft-lb (2,967 N-m)



**Schramm LoadSafe Pipe Handling System**

- > 5,000 lb (2,268 kg) lift capacity
- > Enables hands-free pick-up and lay-down of the drill string



**TSC Offshore Corp. WF700 Triplex Pump**

- > Up to 640 gpm @ 1,715 psi (40.4 l/sec @ 11.8 MPa)
- > Up to 375 gpm @ 2,500 psi (23.7 l/sec @ 17.2 MPa)

**Wireline Cabin**

- > Cable length 4,000 ft. (1,219.2 m) with 7 conductor-braided inner core communication cable
- > Lift capacity 8,000 lbs (3,629 kg)



**Driller's Mud Systems, LLC  
Mud Cleaning and Mixing System**

- > 200 bbl / 8,400 gal tank; paired with a 220 bbl / 9,240 gal reserve tank for 420 bbl / 17,640 total fluid capability
- > Meshes from 10 to 325 gage, and 25 micron / 500 gpm Krebs cone
- > High-volume bentonite hopper

**Test Boreholes**

**Borehole 1:**

- > 10-3/4 in. (27.3 cm) surface casing to 1,100 ft. (335.3 m) and 2,000 ft. (609.6 m) of 8-3/4 in. (22.2 cm) open hole
- > Borehole depth of 3,100 ft. (944.9 m)

**Borehole 2 – Formation Test Cellar:**

- > 16 in. (40.6 cm) surface casing to 100 ft. (30.5 m) used for testing in a variety of formations

**Borehole 3 (In Progress):**

- > 10-3/4 in. (27.3 cm) surface casing to 40 ft., 7-5/8 in. (12.4 m) well casing to 1,100 ft. and 6-1/2 in. (335.4 m) uncased borehole to 1,400 ft. (426.7 m)

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Rev. 150225-vD.04  
Specifications subject to change without notice.  
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