

Surface Formation:

Quaternary Sand

Geologic Markers:

Yates 2700'; Queen 3850'; San Andres 4525'; Bone Springs 8350'
Wolfcamp 10,150', Strawn 11,450', Morrow 12,150', Devonian 13,750'.

Est. depths at which water, oil, gas are expected to be encountered:

See Testing program.

Mud Program:

Surface to 450' - gel and lime for hole conditions to 450'.

450 - 4550' - brine. Add lime and mud seal for seepage 10 pH

4550 - 10000' - fresh water circulated through reserve pit.

10000 - 11300' - add brine to raise chlorides to 90-100,000 ppm
9.0 - 9.2# add starch to raise viscosity to 30-31.
Add KCL for weight.

11300 - 11600' Raise weight to 10.1#, viscosity 33, WL 10 cc.

11600 - 13000' Weight reduced to 9.2#. Viscosity 33.

13000 - 13200' Raise viscosity to 36 cc.

Testing, logging and coring program:

50' core in Queen; drill stem test at Bone Springs, Wolfcamp,
Strawn, Morrow.

Logging: Gamma-Ray Acoustic with Caliper TD to surface pipe.
Guard-Forxo through indicated porosity and shows.