H.Entz 16-14-11H

As Drilled Wellbore Diagram - NOT TO SCALE

Location: Section 16 Township 24S Range 2E, Harvey County, Kansas
API Number: 15-079-20702-01-00
Target Zone: Upper Mississippian
Elevations: GL 1,408
Target Date: 09/24/2013 @ 0630 hrs
Burgess Sand @ 3,094'/2846' MD/TVD

Surface Section
Hole: 13.5"
Depth: 331' MD
Casing: 9-5/8" 36#/J-55, ST&C 320'
Cement Top: Surface
Cement: 55 Sks of Class C at 12.4#/162 Sks of Class C at 14.8#
Mud Weight: 8.7 ppg

Intermediate Section
Hole: 8-3/4"
Depth: 3329' MD/' TVD
Casing: 7-2/6" & 23#, N-80 LT&C 3,306'
Cement Top: 29.5 bbls (120 Sks) of Class A at 14.8 ppg, Yield = 1.38, + Additives. Tail 21.4 bbls (100 Sks) of Class A at 15.8 ppg, Yield = 1.20
Cement: 1700' MD (Estimated)
Mud Weight: 8.8 - 8.9 ppg

Directional Section
KOP: 2298' MD
Build @ 9 deg/100' to a 90.0 degree inclination at 3306' MD/2878' TVD
Set casing @ 3306' and maintain 90 ± 2 degrees to TD @ 6986' MD.

Production Section
Hole: 6-1/8"
Depth: 6976' MD/2881' TVD
Casing: OH packer and 4.5" liner System
Cement: None
Mud Weight: 8.5 ppg

Top of Cmt
Stage 12
Stage 11
Stage 10
Stage 9
Stage 8
Stage 7
Stage 6
Stage 5
Stage 4
Stage 3
Stage 2
Bottom Perf: 6861' MD
Top Perf: 3439' MD
Top of 4.5" Set @ 3094' MD
EOC 7" Set @ 3306' MD
10/31/2013
EOC 7" Set @ 3306' MD
TD Open Hole @ 6986' MD