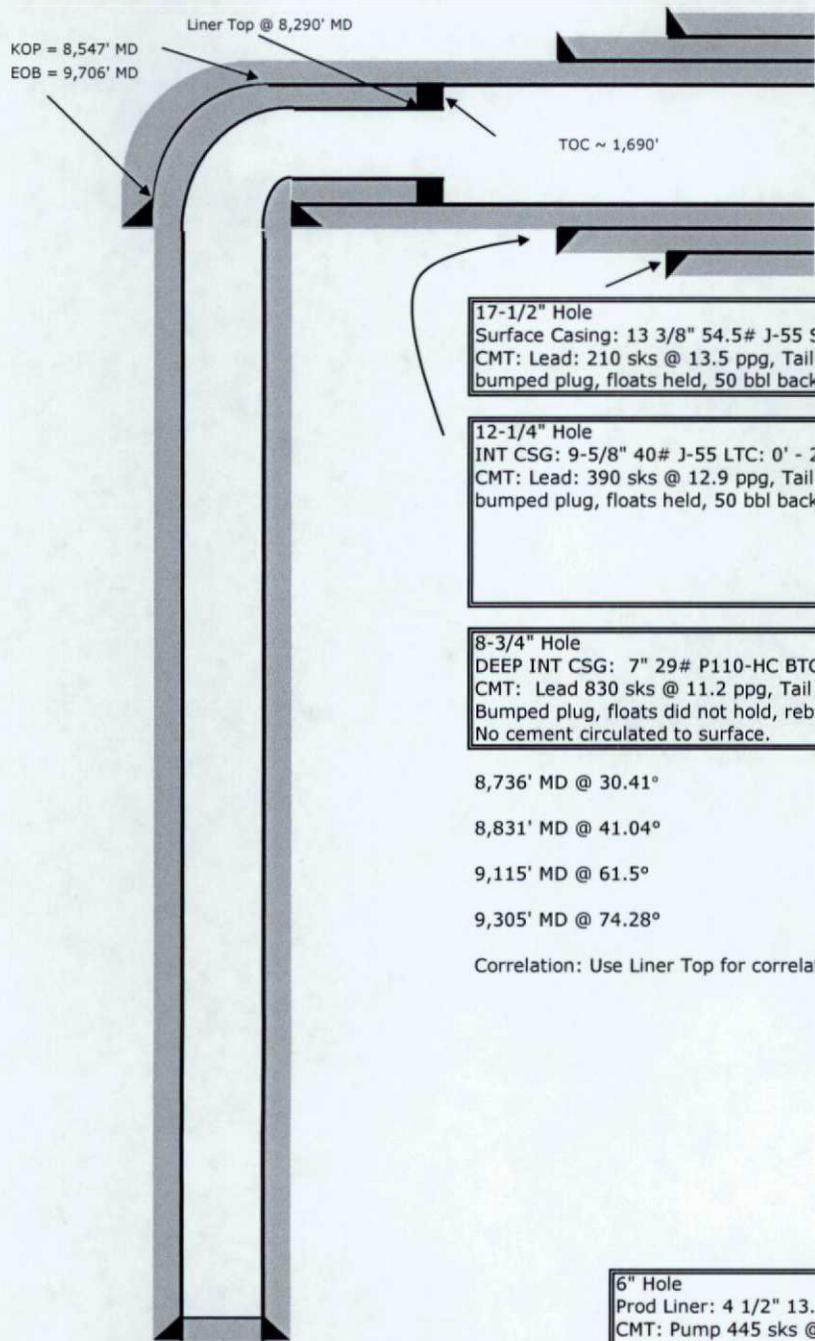




Cavern State 16-1H
Wellbore Diagram
 Wolfcamp Shale
 Eddy County, New Mexico
 API # 30-015-43841

As Drilled 08/26/16



SHL: 2,310' FSL & 200' FWL of Sec 16, T 23S, R 27E
 BHL: 2,310' FSL & 200' FEL of Sec 16, T 23S, R 27E
 KB elev = 3,182'
 GL elev = 3,157'
 KB-GL: 25'
 SPUD: 8/11/2016
 TD: 8/26/2016

17-1/2" Hole
 Surface Casing: 13 3/8" 54.5# J-55 STC: 0' - 450'
 CMT: Lead: 210 sks @ 13.5 ppg, Tail 200 sks @ 14.8 ppg
 bumped plug, floats held, 50 bbl back to surf.

12-1/4" Hole
 INT CSG: 9-5/8" 40# J-55 LTC: 0' - 2,134'.
 CMT: Lead: 390 sks @ 12.9 ppg, Tail 200 sks @ 14.8 ppg
 bumped plug, floats held, 50 bbl back to surf.

8-3/4" Hole
 DEEP INT CSG: 7" 29# P110-HC BTC: 0'-9,442'.
 CMT: Lead 830 sks @ 11.2 ppg, Tail 200 sks @ 15.6 ppg,
 Bumped plug, floats did not hold, rebump plug.
 No cement circulated to surface.

- 8,736' MD @ 30.41°
- 8,831' MD @ 41.04°
- 9,115' MD @ 61.5°
- 9,305' MD @ 74.28°

Correlation: Use Liner Top for correlation.

6" Hole
 Prod Liner: 4 1/2" 13.5# P-110 CDC-HTQ: 8,286' - 13,843'
 CMT: Pump 445 sks @ 14.5 ppg
 Bump plug, floats held, circ 95 sks off liner top.
 TOC ~ 1,690'

TD = 13,850' MD
 PBTD = 13,760' MD (FC, SLM)
 Avg TVD Lat = 9,083'
 Lat. Length = 4,595'
 BHT 189°F

TVD @ Heel = 9,065'
 TVD @ Toe = 9,100'