

Surface Detail:

12 1/4" Hole
 9 5/8" 32.30#, H-40 ST&C
 Casing set @ 221'
 Circulate Cement to Surface (140 sks.)

Carracas 21 B #16
Energen Resources
 Fruitland Coal
 875' FSL, 905' FWL
 Sec. 21-T32N-R4W
 Rio Arriba, NM
 API:30-039-30466

Date: 3/7/2014
 Elevation: 7396' GL
 KB Elevation : 17'

Tubing Detail:

2-3/8" 4.7# J-55, EUE, 8rd
 EOT @ 4875' MD
 SN @ 4827' MD

Pump and Rod Detail:

2"x1-1/2"x16' RWAC pump
 4559' - 13/16" Round Continuous Rod
 3/4" D Rod, 4', 6' Pony
 1-1/4"x26' Polish Rod
 1-1/2"x16' Liner

Approximate Formation Tops:

Nacimiento: Surface
 Ojo Alamo: 3683' Est TVD
 Kirtland: 3867' Est TVD
 Fruitland: 4030' Est TVD

Intermediate Detail:

8 3/4" Hole
 7" 23.0# J-55 LT&C
 Casing set @ 5329' MD
 Circulate Cement to Surface (900 sks.)

Horizontal Lateral Liner Pre-Drilled Perf Detail:

6 1/4" Hole
 4 1/2" 11.6# J-55 from 5251' to 7190' MD
 H-Latch Drop Off.
 Perfs f/ 5295'-7148' @ 6 SPF
 No Cement

