



### UL 20Tensleep #1H

|                      |  |             |              |
|----------------------|--|-------------|--------------|
| FIELD:               | Phantom (Wolfcamp)                                   | API #:      | 42-475-37120 |
| LOCATION:            | 31°38'36.72" N, 103°16'32.46" W                      | AFE #:      | O16063       |
| ACTUAL: SL:          | X= 1,084,450 Y= 731,083 BHL: X= 1,083,077 Y= 735,782 |             |              |
| CO, ST:              | Ward County, Texas                                   | COMPLETED:  |              |
| STATUS:              | DRILLED & CASED                                      | DRLG Permit | 817618       |
| LATEST RIG WORKOVER: | Drilled by H&P 602, rig release 7/18/17              |             |              |
| DIAGRAM REVISED:     | 7/24/17 by: Travis Salinas                           |             |              |

#### CURRENT WELLBORE DIAGRAM

##### Surface Casing

Spacer: 20 bbl red dye. Stage 1 Lead: 540 sxs / 130 bbls Halcem, 14.8ppg, 1.36 yield, 1.36 gps. Displace w/ 69 bbls, land plug w/ 700 psi & held for 5 min. Floats held, bled back 1 bbl. 100% returns through job, circulated 30 bbl to surface.

##### 1st Intermediate CSG

9-5/8" 40.0# HCL-80 BTC @ 0'-5,076'

Pump 300 bbl FW Gel dyed spacer, Lead:1,195 sxs (598 bbl) Neocem Lead @ 11 ppg, 2.81 cf/sx (150% XS). Tail: 155 sxs (37 bbl), HalCem 14.8 ppg, 1.33 cf/sx. Displace 371 BBL of FW. Bump plug @ 3 BPM 450 PSI and raise to 947 PSI. Hold 5 min, bled back 2 BBL. Floats holding. Full returns throughout job. Circ 91 BBL / 182 SX cement to surface.

Prod CSG: CBL TOC @ 5,050'

7" 32# HCP-110 LTC @ ~80° @

0'-11,758'

Pumped down backside to induce circ. w/ 150 BBL twice Pump 20 bbl FW Gel spacer, Lead :5 bpm:355 sx (180 bbl) tuned-light @ 11#, 2.845 cf/sx w/ 85% XS. Tail : 535 sxs (116 bbl), HalCem H 15.6#, 1.196 cf/sx w/ 0% XS. Displace 420 bbls of FW. Did NOT Bump plug. Pump 1.5 BBL over, Final Circ 1,556 PSI @ 3 bpm. WOC. Bled back 1/2 bbl. Full Returns. Displace through 1" choke - 4 bbl in / 3 out. Cement to surface in Annulus. EST TOC 2,086' Casing test good to 4,750 psi w/ 9.3ppg.

4-1/2" Production Liner Top 11,073' MD (11,260' CBL)

KOP at 11,178' at 3.51 deg

FIT T/ 17.5 ppg EMW

|          | CASING  |         |         |           | TUBING |
|----------|---------|---------|---------|-----------|--------|
| Hole     | 17-1/2" | 12-1/4" | 8-3/4"  | 6"        |        |
| Casing   | 13-3/8" | 9-5/8"  | 7"      | 4-1/2"    |        |
| Weight   | 68#     | 40#     | 32#     | 13.5#     |        |
| Grade    | J-55    | HCL-80  | HCP-110 | HCP-110   |        |
| Thread   | STC     | LTC     | LTC     | Hydri 563 |        |
| Top      | 0'      | 0'      | 0'      | 11,073'   |        |
| Bottom   | 520'    | 5,076'  | 11,758' | 16,508'   |        |
| Mud wt   | 8.4 FW  | 10.2 BR | 9.5 BR  | 14.3 OBM  |        |
| Burst    | 3,450   | 5,750   | 12,460  | 12,410    |        |
| Collapse | 1,950   | 3,870   | 10,780  | 11,620    |        |
| Capacity | 0.1497  | 0.0758  | 0.0361  | 0.01493   |        |

GROUND ELEV: 2,760.0' LOG ELEV: 2,785.0' KB: 25.0'

POP: FTP: 12,477' LTP: 16,015'

##### WELL HEAD PROGRAM

SECTION A: 13-5/8" 5M  
SECTION B: 13" 5M x 7-1/16" 5M  
SECTION C:  
TUBING HEAD ASSEMBLY: 7-1/16" 5K XO to 7-1/16" 15K  
TREE: 7-1/16" 5K x 2-9/16" 10K EE

##### COMPLETION HISTORY

Marker Joints: 11,104', 14,496', & 15,976'

16' PBR on Top of Liner

4-1/2" Production Liner Top 11,073' MD (11,260' CBL)

Float collar @ 16,463'

Landing Collar @ 16,414'

Opted to not run a Toe Valve on Tensleep #1H

See other Worksheets in this file for Directional Surveys and Production Casing Details

See "perf schedule" tab for perforations.

Lateral DLS > 5 @ 13,119'

Projected Coordinate System: NAD 27 / Texas Central

WL Fish left @ 16,070'. see attached tab for details.

A loose plug that did not set on coil is below the solid plug set @ 16,060'

Total Well FRAC INFO RECAP :

TD: 11976  
MD: 16515

For Stages and Cluster Data see Perf Schedule Tab

Toe Up

Landing Collar @ 16,414'  
Float collar @ 16,463'  
Float shoe @ 16,508'

Pump 80 bbl of 14.3 PPG tuned spacer III., Pump Versacem 83 BBL (480 SX) 14.5 PPG, 1.223 Yield, 5.65 gal/SX @ 4 BPM. Wash Up Lines, Drop Halliburton DP Wiper dart, pump 20 bbls MMCR & 45 bbls of FW w/ 2% KCL Substitute., 20 BBL of Sugar Water, 30 BBL of Tuned Spacer III, 79 BBL of OBM from Pits. = total displacement of 194 BBL. Bump plug 6 BBL earely. Final rate 2 BPM @ 2,600 PSI, pressured up to 3,200 PSI, held 5 min. Bled back 2 BBL and floats held. Full returns throughout cement job. Conventional circulate 2X Bottoms up. 1st bottoms up recovered 50 bbls of (FW, sugar water, turned spacer III and OBM). Close annular and test TOL to 3,000 PSI for 5 min and test good. Reverse circulate 115 BBL cement and spacer to surface. Perform negative test for 30 min, test good.