



UL 20 Flathead #2H

FIELD:	Phantom (Wolfcamp)	API #:	42-495-33782
LOCATION:	31°42'54.82" N, 103°17'16.9" W	AFE #:	O17005
ACTUAL: SL:	X= 1,081,303 Y= 757,255 BHL: X= 1,079,202 Y= 750,064	COMPLETED:	
CO, ST:	Winkler County, Texas	DRLG Permit	822324
STATUS:	DRILLED & CASSED		
LATEST RIG WORKOVER:	Drilled by H&P 602, rig release 4/26/17		
DIAGRAM REVISED:	5/8/17 by: Travis Salinas		

CURRENT WELLBORE DIAGRAM

Surface Casing

Spacer: 20 bbl red dye. Stage 1 Lead: 535 sxs / 130 BBL, 14.8ppg, 1.36 yield. Displace w/ 70 bbls, land plug w/ 250 psi & raise to 750 psi. Held for 5 min. Floats held. 100% returns through job, circulated 165 SX to surface.

1st Intermediate CSG

9-5/8" 40.0# HCL-80 BTC @ 0'-5,089'

Pump 300 bbl FW Gel dyed spacer, Lead:1,210 sxs (603 bbl) Neocem Lead @ 11 ppg, 2.8 cf/sx. Tail: 155 sxs (36 bbl), HalCem 14.8 ppg, 1.33 cf/sx. Displace 385 bbls of FW. Bump plug @ 3 BPM 351 psi and raise to 883 psi. Hold 5 min, bled back 2 bbl. Floats holding. Full returns throughout job. Circ 145 BBL cement to surface.

Prod CSG: CBL TOC @ 9,298'

7" 32# HCP-110 LTC @ -80° @

0'-12,008'

Pumped down backside to induce circ. w/ 145 BBL Pump 20 bbl FW Gel spacer, Lead :5 bpm:370 sx (202 bbl) tuned-light @ 10.2#, 3.053 cf/sx. Tail : 445 sxs (95 bbl), HalCem H 15.6#, 1.196 cf/sx. Displace 360 bbls of FW. Did NOT Bump plug. Bled back 3 bbl. Floats not holding. Shut in w/ 46 PSI. Full Returns. Displace through 1" choke - 4 bbl in / 3 out. No

4-1/2" Production Liner Top 11,460' MD (xxx' CBL)

KOP at 11,570' at 2.94 deg

FIT T/ 16.5 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	K-55	HCL-80	P-110	HCP-110	
Thread	BTC	BTC	LTC	Hydrl 563	
Top	0'	0'	0'	11,460'	
Bottom	509'	5,089'	12,008'	19,476'	
Mud wt	8.4 FW	10.2 BR	9.3 BR	13.35 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: 2,794.9' **LOG ELEV:** 2,819.9' **KB:** 25.0'

POP: ' **FTP:** 12,370' **LTP:** 19,289'

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: 11,555', 16,165', & 18,969'
20' PBR on Top of Liner
4-1/2" Production Liner Top 11,460' MD (xxx' CBL)
Float collar @ 19,412'
Toe Valve @ 19,315'
See other Worksheets in this file for Directional Surveys and Production Casing Details
See "perf schedule" tab for perforations.
Lateral DLS > 5 @ 18,459'

Projected Coordinate System: NAD 27 / Texas Central

[Total Well FRAC INFO RECAP :](#)

MD: 19476
TVD: 12352

For Stages and Cluster Data see Perf Schedule Tab

Toe Up

Toe Valve @ 19,315'
Float collar @ 19,412'
Float shoe @ 19,476'

Pump 50 bbl of 13.3 PPG tuned spacer, 50 BBL of 14 PPG tuned spacer. Pump Versacem 123 BBL (565 SX) 14.5 PPG, 1.223 Yield, 5.65 gal/SX @ 5 BPM. Wash Up Lines, Drop DP Wiper dart, pump 20 bbls MMCR & 81 bbls of FW w/ 2% KCL Substitute, 20 BBL of Sugar Water, 30 BBL of 14 PPG Tuned Spacer, 80 BBL of OBM from Pits. Bump plug 0.5 over, final rate 3 BPM @ 700 psi, pressured up to 1,990 PSI, held 5 min. Bled back 1 bbl and floats held. Full returns throughout cement job. Reverse circulate 115 BBL cement and spacer to surface. Good negative test.