30-025-43531

Permit Information:

OCD - HOBBS 01/04/2017 RECEIVED

Well Name: Beowulf 33 State Com No. 601H

Location:

300' FSL & 1540' FWL, Section 33, T-23-S, R-35-E, Lea Co., N.M. SL: BHL: 2411' FSL & 1540' FWL, Section 28, T-23-S, R-35-E, Lea Co., N.M.

Casing Program:

Hole		Csg				$\mathbf{DF}_{\mathbf{min}}$	DF _{min}	\mathbf{DF}_{min}
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
14.75"	0-1,440	10.75"	40.5#	J55	STC	1.125	1.25	1.60
8.75"	0'-10,800'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0'-19,226'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft ³ /ft	Slurry Description
1,440'	400	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ +
-				0.25 lb/sk Cello-Flake (TOC @ Surface)
	250	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate
11,100'	550	14.4	1.20	50:50 PozLClass H + 0.25% CPT-20A + 0.40% CPT-49 +
				0.20% CPT-35 + 0.80% CPT-16A + 0.25% CPT-503P
	1400	14.8	1.42	Class C + 5% Gypsum + 3% CaCl2 + 0.1 gps Plexfoam 7
19,226'	990	14.4	1.34	65:35 Class H + 0.2% C-20 + 0.75% C-41P + 0.05% CSA-
				1000 + 5% MagOx + 0.35% C-47B (TOC @ 10,300')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,440'	Fresh - Gel	8.6-8.8	28-34	N/c
1,440' – 11,100'	Brine	8.7-9.4	58-68	N/c - 6
11,100' – 11,299'	Oil Base	8.7-9.4	58-68	N/c - 6
11,299' – 19,226'	Oil Base	9.0-11.5	58-68	N/c - 6
Lateral				