

Permit Information:

Well Name: Neptune 10 State Com No. 705H

Location:

SL: 630' FSL & 2047' FWL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 2010' FWL, Section 3, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 1,275'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
8.75"	0' - 11,500'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0'-22,588'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,275'	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)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,500'	250	14.8	1.38	Class C + 5% Gypsum + 3% CaCl ₂ (TOC @ Surface)
	2000	14.8	1.38	Class C + 5% Gypsum + 3% CaCl ₂
	550	14.4	1.20	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P
22,588'	800	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,000')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,275'	Fresh - Gel	8.6-8.8	28-34	N/c
1,275' - 11,500'	Brine	8.8-10.0	28-34	N/c
11,500' - 12,003'	Oil Base	10.0-11.5	58-68	3 - 6
12,003' - 22,588' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Neptune 10 State Com #705H

Lea County, New Mexico
Proposed Wellbore

630' FSL
2047' FWL
Section 10
T-24-S, R-33-E

API: 30-025-*****

KB: 3,632'
GL: 3,607'

Bit Size: 14-3/4"

10-3/4", 40.5#, J-55, ST&C 0' - 1,275'

Bit Size: 8-3/4"

7-5/8", 29.7#, HCP-110, FlushMax III
0' - 11,500'

TOC: 11,000'

KOP: 12,003'

Bit Size: 6-3/4"

Bit Size: 6-3/4"

5-1/2", 17#, HCP-110, LTC @ 0' - 22,588'

Lateral: 22,588' MD, 12,495' TVD

BH Location: 230' FNL & 2010' FWL
Section 3
T-24-S, R-33-E