Permit Information:

Well Name: Neptune 10 State Com No. 702H

Location:

SL: 164' FSL & 1182' FWL, Section 10, T-24-S, R-33-E, Lea Co., N.M.
BHL: 230' FNL & 750' 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'-22,579'	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% CaCl2 (TOC @ Surface)
	2000	14.8	1.38	Class C + 5% Gypsum + 3% CaCl2
	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
22,579'	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' – 12,022'	Oil Base	10.0-11.5	58-68	3 - 6
12,022' – 22,579' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

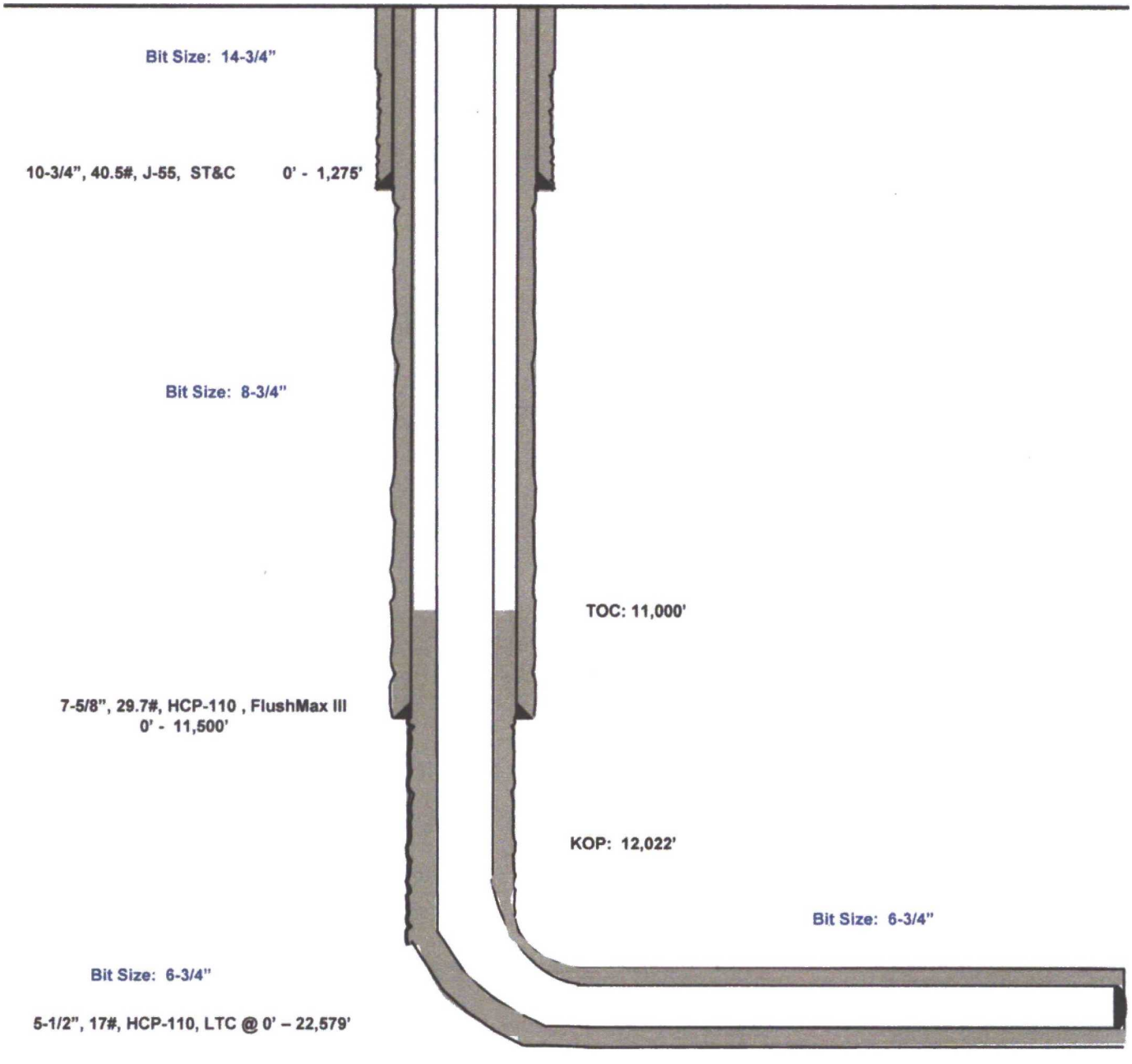
Neptune 10 State Com #702H

Lea County, New Mexico
Proposed Wellbore

164' FSL
1182' FWL
Section 10
T-24-S, R-33-E

API: 30-025-*****

KB: 3,638'
GL: 3,613'



Lateral: 22,579' MD, 12,495' TVD

BH Location: 230' FNL & 750' FWL
Section 3
T-24-S, R-33-E