

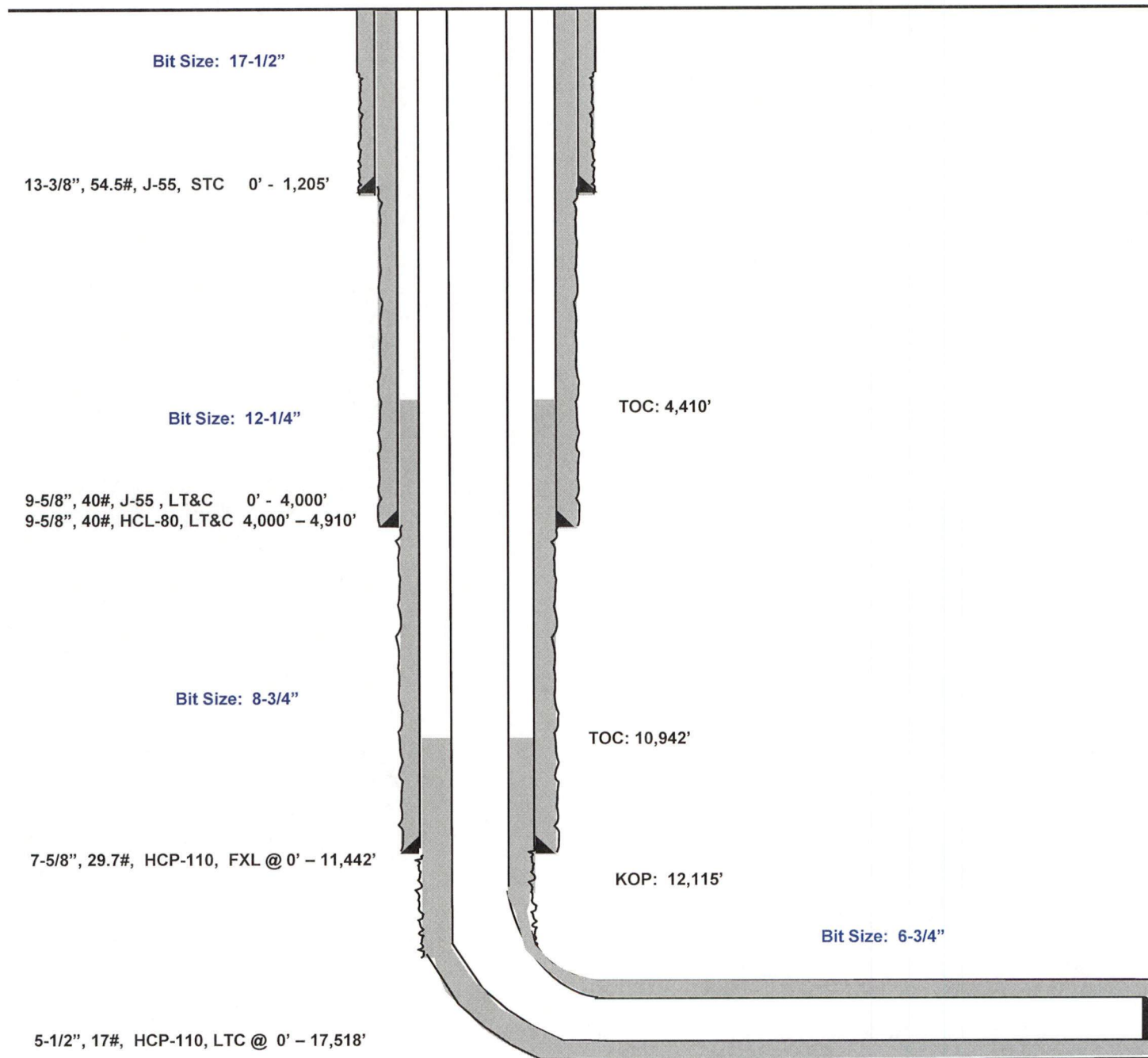
Heartthrob 17 State #705H  
Lea County, New Mexico

OCD - HOBBS  
08/24/2018  
RECEIVED

443' FSL  
1,401' FEL  
Section 17  
T-24-S, R-33-E

Proposed Wellbore  
30-025-45140  
API: 30-025-\*\*\*\*\*

KB: 3,593'  
GL: 3,568'



Lateral: 17,518' MD, 12,529' TVD

BH Location: 100' FNL & 2,388' FEL  
Section 17  
T-24-S, R-33-E

**Permit Information:**

Well Name: Heartthrob 17 State No. 705H

Location:

SL: 443' FSL &amp; 1,401' FEL, Section 17, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL &amp; 2,388' FEL, Section 17, T-24-S, R-33-E, Lea Co., N.M.

**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
17.5"	0 – 1,205'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' – 4,910'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0 – 11,442'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,518'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

**Cement Program:**

Depth	No. Sacks	Wt. lb/gal	Yld Ft <sup>3</sup> /ft	Slurry Description
1205'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl <sub>2</sub> (TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,910'	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,442'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,410')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,518'	800	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,942')

**Mud Program:**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1205'	Fresh - Gel	8.6-8.8	28-34	N/c
1,205' – 4,910'	Brine	10.0-10.2	28-34	N/c
4,910' – 11,442'	Oil Base	8.7-9.4	58-68	N/c - 6
11,442' – 17,518' Lateral	Oil Base	10.0-11.5	58-68	3 - 6