### **Revised Permit Information 7/24/2019:**

Well Name: Getty 5 Fed Com #501H

Location:

SHL: 199' FSL & 606' FEL, Section 5, T-25-S, R-33-E, Lea Co., N.M. BHL: 2539' FSL & 330' FEL, Section 32, T-24-S, R-33-E, Lea Co., N.M.

### **Casing Program:**

Hole		Csg				DFmin	DFmin	DFmin
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0'-1,164'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' - 4,914'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0'-11,095'	5.5"	20#	HCP-110	LTC	1.125	1.25	1.60
8.5"	11,095'- 18,288'	5.5"	20#	HCP-110	LTC	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 9-5/8" FJ casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" FJ casing in the 8-3/4" and 8-1/2" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the production hole interval to maximize cement bond and zonal isolation.

	No.	Wt.	Yld	· · · · · · · · · · · · · · · · · · ·
Depth	Sacks	ppg	Ft <sup>3</sup> /sk	Slurry Description
1,164'	700	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 964')
4,914'	500	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	340	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,930')
18,288'	590	11.0	3.21	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,414')
	2,140	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,195')

#### **Cementing Program:**

Additive	Purpose		
Bentonite Gel	Lightweight/Lost circulation prevention		
Calcium Chloride	Accelerator		
Cello-flake	Lost circulation prevention		
Sodium Metasilicate	Accelerator		
MagOx	Expansive agent		
Sodium Chloride	Accelerator		
FL-62	Fluid loss control		
Halad-344	Fluid loss control		
Halad-9	Fluid loss control		
HR-601	Retarder		
Microbond	Expansive Agent		

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

Depth	Туре	Weight (ppg)	Viscosity	Water Loss	
0 - 1,164'	Fresh - Gel	8.6-8.8	28-34	N/c	
1,164' – 4,914'	Brine	8.6-8.8	28-34	N/c	
4,914' – 18,288'	Oil Base	8.8-9.0	58-68	N/c - 6	

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

199' FSL 606' FEL Section 5 T-25-S, R-33-E

# Proposed Wellbore Revised 7/24/2019

#### KB: 3,463' GL: 3,438'

# API: 30-025-46211



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