

EOG RESOURCES, INC.**Quail 2 State Com #594H****Revised Permit Information 3/29/2019:**

Well Name: Quail 2 State Com No. 594H

Location:

SHL: 300' FNL & 1596' FWL, Section 2, T-26-S, R-30-E, Eddy Co., N.M.

BHL: 100' FSL & 1540' FWL, Section 2, T-26-S, R-30-E, Eddy Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0' – 1,255'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' – 3,779'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 10,736'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	10,736'–15,368'	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
1,255'	547	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	159.8	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
3,779'	341	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	288	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
15,368'	3279	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 3,279')
	1486	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' – 1,255'	Fresh - Gel	8.6-8.8	28-34	N/c
1,255' – 3,279'	Brine	10.0-10.2	28-34	N/c
3,279' – 9,923'	Cut Brine	8.4-9.0	28-34	N/c
9,923' – 15,368' Lateral	Cut Brine	9.0-9.5	40-42	8-10