

Revised Permit Information 2/16/16:

Well Name: Bridge State Unit No. 701H

Location:

SL: 250' FSL & 330' FWL, Section 20, T-22-S, R-35-E, Lea Co., N.M.

BHL: 230' FNL & 330' FWL, Section 20, T-22-S, R-35-E, Lea 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 - 1,810'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-3,826'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	3826' - 6068'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 10,800'	7.625"	29.7	HCP110	ULT FJ	1.125	1.25	1.60
6.75"	0'-16,266'	5.5"	23#	HCP-110	JFE Bear	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1,810'	825	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂
	260	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)
6,068' DV Tool @ 4670'	80	12.7	2.14	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P
	250	14.8	1.33	Tail: Class C + 0.13% C-20
	1080	12.7	2.14	Lead: Class C + 8% Gel + 0.15% C-20 + 11.63 pps Salt + 0.10% C-51 + 0.75% C-41P
	107	14.8	1.33	Tail: Class C + 0.13% C-20
12,377'	109	18.0	0.90	230' Btm Hole Plug - Class 'H' + 1.20% CD-31 + 0.20% R-3 + 5.00% Salt (1.252 lb/sk)
9,996' - 10,796'	351	18.0	0.90	600' Sidetrack Plug - Class 'H' + 1.20% CD-31 + 0.20% R-3 + 5.00% Salt (1.252 lb/sk)
10,800'	232	9.47	2.62	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167
	106	15.6	1.18	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
16,266'	975	11.8	2.37	Lead: 50:50:10 Class 'H' + 0.80% FL-52A + 0.30% ASA-301 + 0.30% SMS + 2.00% Salt (2.259 lb/sk) + 0.20% R-21 + 0.25 lb/sk Cello Flake
	1250	14.2	1.30	Tail: 50:50:2 Class 'H' + 0.30% FL-52A + 0.20% CD-32 + 0.35% SMS + 5.00% Salt (2.454 lb/sk) + 0.45% R-3 + 0.005 lb/sk Static Free

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,810'	Fresh - Gel	8.6-8.8	28-34	N/c
1,810' - 6,068'	Brine	10.0-10.2	28-34	N/c
6,068' - 12,377' Pilot hole	Oil Base	8.7-9.4	58-68	N/c - 6
10,888' - 16,266' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

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