

State Permit Information:**Well Name:** Boyd X State Com #18H**Location:**

SL: 330' FSL & 500' FEL, Section 17, T-19-S, R-25-E, Eddy Co., N.M.

BHL: 330' FSL & 100' FEL, Section 16, T-19-S, R-25-E, Eddy Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0'-1250'	9.625"	36#	J-55	LTC	1.125	1.25	1.60
8.75"	0 -2639 '	7"	29#	L-80	BTC	1.125	1.25	1.60
8.75"	2639'-7956'	5 ½"	17#	L-80	BTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1250'	265	12.9	1.97	Lead: Class 'C' + 4%PF20(Bentonite Gel) + 2%PF1(Calcium Chloride) + 0.125#/skPF29(Celloflake) + 0.4#/skPF45 (Defoamer) 100% Excess (TOC @ Surface)
	200	1.34	1.34	Tail: Class 'C' + 2%PF1(Calcium Chloride)
7956'	220	11.9	2.47	Lead: Class 50/50 PozC + 5%PF44(BWOW)(Salt) + 10% PF20(Bentonite Gel) +.2%PF153(Anti Settling Agent(+ 3#/sk OF42(Kolseal) + 0.125#/sk PF29 (celloflake) + 0.4#/sk PF45 (Defoamer) (TOC @ Surface) 35% Excess
	1225	13	1.48	Tail: Class PVL + 1.3% PF44(BWOW)(Salt) + 5% PF174 (Expanding Cement) + 0.5% PF606 (Fluid Loss) + 0.1% PF153 (Anti Settling Agent) + 0.4#/sk PF45 (Defoamer) 35% Excess

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1250'	Fresh Water	8.6-8.8	28-32	N/c
1250' - 7956'	Cut Brine	8.8-9.2	28-32	N/c
Vertical/Curve/Lateral				