

## VAWTER ESTATES 1 - PROPOSED WBD

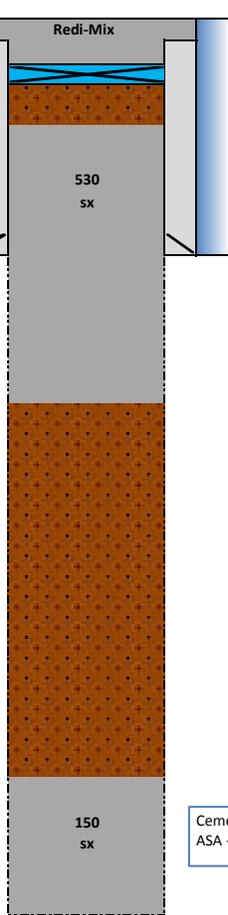
Existing Features	
KB	10
Surface csg shoe at	241

Deepest 1-mile water well	1040
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Fox Hills Marker	1600
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Sussex	Top	4894
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TD	5000
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Proposed Additions for P&A	
80	Redi-Mix to surface CIBP (8-5/8")
100	TOC

Cement Blend: Type III w/ cello flake and CaCl<sub>2</sub>, mixed at 14.8 ppg and 1.33 cuft/sk.

1240	Bottom of cement
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4690	Top of cement
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Cement Blend: "G" w/ 0.25 pps cello flake , 0.4% CD-32, 0.4% ASA - 301, mixed at 15.8 ppg and 1.15 cuft/sk

5000	Bottom of cement
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API# 0512309625				
Well: VAWTER ESTATES 1				
Equipment	Specs.	Depth	(bbl/ft)	ft <sup>3</sup> /ft
Surface	8 5/8"	241		0.576
Production Casing				
Bit Size	7 7/8	5000	0.0238	0.3382
Hole Size	8.5		0.0702	0.3941
Hole Size	9		0.0787	0.4418
Hole Size	10.5		0.1071	0.6013
Hole Size	12.5		0.1518	0.8522

Cement Yield	1.33	1.15	1.71	1.38
	Top Plug	SX/SH	NB/Cd Squeeze	NB/Cd in pipe

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	Top Plug
OpenHole	618	465	40%	9" Caliper at 4000'
In pipe	81	61		
Total Top Plug	699	526	530	

round up      **704.9**      530

openhole	164	143	20%	SX/ SH Plug
In pipe				9"
Total	164	143	150	caliper

round up      173

Legend	
	New cement
	Existing cement with CBL
	assumed cement w/ no CBL
	cast iron cement retainer
	cast iron bridge plug
	mud
	Water
	sand