

ZEILER 1

Existing Features	
KB	11
Surface csg shoe at	335
Bottom of Foxhills (FHM)	601

Sussex Top	4079
Sussex Bottom	4206

Shannon Bottom	4630
NOT producing Shannon w/in 1 mile	

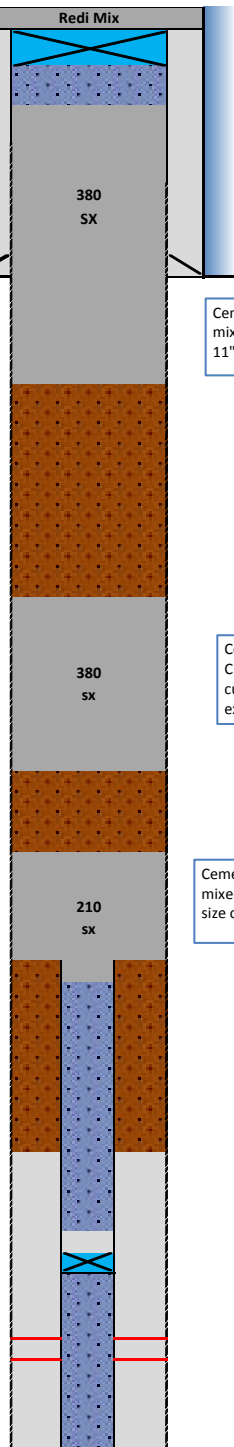
TOC Cement existing (CBL)	6716
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Niobrara Top	6882
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CIBP + 2 sk (Set 8/21/03)	7150
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Geologic Top		7203
Codell	Perf Top	7212
	Perf Bottom	7222

PBMD	7786
4 1/2" 11.6# CSG	7786



Proposed Additions for P&A	
80	CIBP (8 5/8")
130	TOC

Cement Blend: Type III w/ cello flake and CaCl₂, mixed at 14.8 ppg and 1.33 cuft/sk. Assuming an 11" OH with 40% excess and 8 5/8" S/C.

800	Bottom of cement
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3850	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. Using an 11" OH from caliper and 20% excess.

4400	Bottom of cement
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5700	Top of cement
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Cement Blend: "G" w/ 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cuft/sk. Assuming a hole size of 10" and 40% excess.

6006	Casing Stub
6100	Bottom of cement

API#	0506906150			
Well:	ZEILER 1 (H8953)			
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casing	8 5/8" 24#	314	0.0637	0.3576
Production Casing	2 7/8" (6.5#)	7522	0.0058	0.0325
Tubing Size				
Bit Size	7 7/8		0.0602	0.3382
Hole Size (TOP)	11		0.1175	0.6600
Hole Size (SU/SH)	11		0.1175	0.6600
Hole Size (NB)	10		0.0971	0.5454

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	
Open Hole	429.63	323.03	40%	Top Plug
S/C hole	73.31	55.12		11 in hole
P/C annulus				Nearest caliper
Total Top Plug	73.31	55.12	380	at 4400'
Open Hole	435.57	378.7554	20%	SX/ SH Plug
P/C hole	0	0		11 in hole
Total SU/SH	435.57	378.7554	380	Caliper Log
Open Hole	233.66	203.18	40%	NB Plug
P/C hole	3.05	2.66		10 in hole
Total	236.71	205.84	210	Nearest caliper
				at 4700'

Cement Yield	1.33	1.15	1.15
	Top Plug	SX/SH	NB

Legend	
	Existing cement with CBL
	New cement
	assumed cement w/ no CBL
	cast iron cement retainer
	cast iron bridge plug
	mud
	2% KCL Water