

MCLAUGHLIN 34-8 (76814)

Existing Features	
KB	10

Surface csg shoe at	387
Bottom of Foxhills	689

Sussex	Top	3980
	No Perfs	

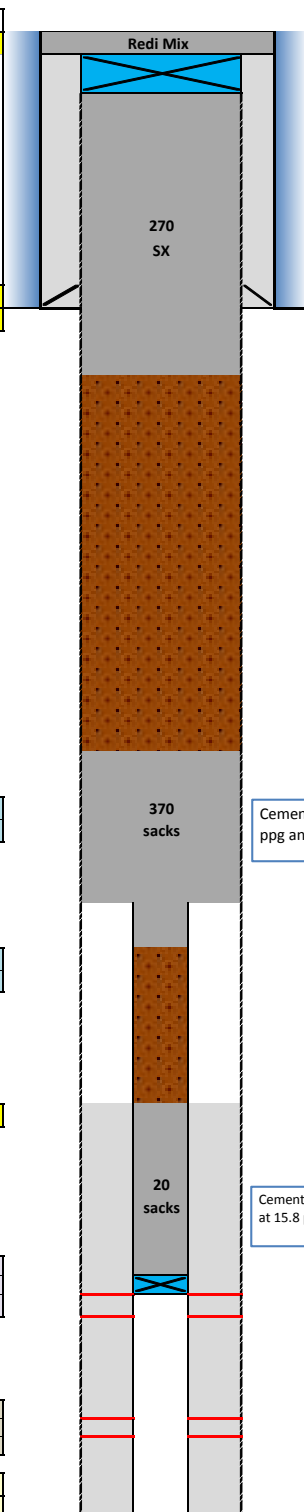
Shannon	Bottom	4650
No shannon production w/in 1 mile radius		

TOC Cement existing	6506
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Geologic Top		6874
Niobrara	Perf Top	6876
	Perf Bottom	6946

Geologic Top		7144
Codell	Perf Top	7144
	Perf Bottom	7163

PBMD	7224
3-1/2" CSG 7.7#	7260



Proposed Additions for P&A	
100	CIBP (8-5/8")
150	TOC

Cement Blend: Type III w/ cello flake and CaCl₂, mixed at 14.0 ppg and 1.53 cuft/sk. with 20% excess and 10" hole size.

890	Bottom of cement
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3580	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, with 20% excess used and considering hole size of 9".

4330	Casing Stub
4380	Bottom of cement

6500	Top of in pipe cement
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Cement Blend: "G" w/ 20% silica flour, 0.4% Cd-32, 0.4% ASA-301 and R-3 to acheive 2:30 pump time mixed at 15.8 ppg and 1.15 cuft/sk

6810	CIBP 3-1/2"
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API# 0512317775				
Well: MCLAUGHLIN 34-8 (76814)				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casing	8 5/8" 24#	387	0.0637	0.3576
Production Casing	3.50 (7.7#)	7260	0.009141	0.0513
Tubing String	2-1/16" (3.25#)	7115	N/A	N/A
Hole Size	9"		0.0787	0.4418
Hole Size	10"		0.0971	0.5454

Cement Calculations				
Section	Volume	Cement Sacks	approximate	Top Plug
S/C hole	84.75	55.39		10" hole
Open Hole	329.20	215.17	20% excess	
P/C hole				
Total Top Plug	413.95	270.56	270	

In Hole	397.62	345.76		SX/ SH Plug
In pipe	19.53	16.98		9 " HOLE
Total		362.73	370	

NB/CD Annular				NB/CD Plug
NB/CD Csg.	15.90	11.52		
Total		11.52	20	

Cement Yield	1.53	1.15	1.71	1.38
	Top Plug	SX/SH	NB/Cd Squeeze	NB/Cd in pipe

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