

COUGHLIN RED VV 22-2

Existing Features	
KB	11

Surface csg shoe at	791
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Bottom of Foxhills (FHM)	1330
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TOC (CBL)	4070
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Sussex Top	4554
Not producing Sussex w/in 1 mile	
Squeeze perfs (CBL)	4556

TOC (CBL)	4695
Sussex Base	4794

Squeeze perfs	4950
BOC (CBL)	5007

Shannon Base	AB
Not producing Shannon w/in 1 mile	

TOC (CBL)	6722
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Niobrara Top	7200
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Codell	7575
Perf Top	7576
Perf Bottom	7588

PBMD	7762
3 1/2" 9.3# CSG	7767

Proposed Additions for P&A	
80	CIBP 8 5/8" 24#

690	Top of cement
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Cement Blend: Type III w/cello flake and CaCl₂ as necessary, mixed at 14.8 ppg and 1.33 cuft/sk.

1430	Casing stub
1530	Bottom of cement

4350	TOC
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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.

5150	BOC
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6700	TOC
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Cement Blend: "G" w/silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time. Mix at 15.8 ppg and 1.38 cuft/sk.

7520	CIBP 3 1/2" 9.3#
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API#	05-123-16666			
Wins:	H6125			
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casing	8 5/8" 24#	791	0.0637	0.3576
Production Casing	3 1/2" (9.3#)	7766	0.0087	0.0488
Tubing Size	2 1/16" (3.25)	7538	0.0030	0.01672
Hole Size (TOP)	10	N/A	0.0971	0.5454
Annulus (TOP)	10	N/A	0.0852	0.4786
Annulus (SU/SH)	N/A	N/A	N/A	N/A
Hole Size (NB)	N/A	N/A	N/A	N/A

Cement Calculations				
Section	Volume	Cement	Excess	
Open Hole	487.93	366.86	40%	Top Plug 10 in. OH (Caliper on file)
Surface casing	36.12	27.16		
Production casing	4.88	3.67		
FX Total	528.93	397.69	430	572
Open Hole				40
Production casing	39.064	33.9687		
SX Total	39.06	33.9687	35	
Open Hole				41
Production	40.04	29.01		
NB Total	40.04	29.01	30	

Cement Yield	1.33	1.15	1.38
	FX	SX/SH	NB

Legend	
	Existing cement with CBL
	New cement
	Assumed cement w/ no CBL
	Cast Iron Cement Retainer
	Cast Iron Bridge Plug
	Mud
	Water + Biocide
	DV Tool