

# CANNON RED W 15-12 (22355)

Existing Features	
KB	

Surface csg shoe at	800
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Bottom of Foxhills	1380
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Casing (3-1/2") 7.70 # 98 jts	4117
Casing Patch (5-1/2")	4117-4124

TOC Cement existing	4304
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Sussex	No perfs	4618
Sussex productive within 1 mile radius		

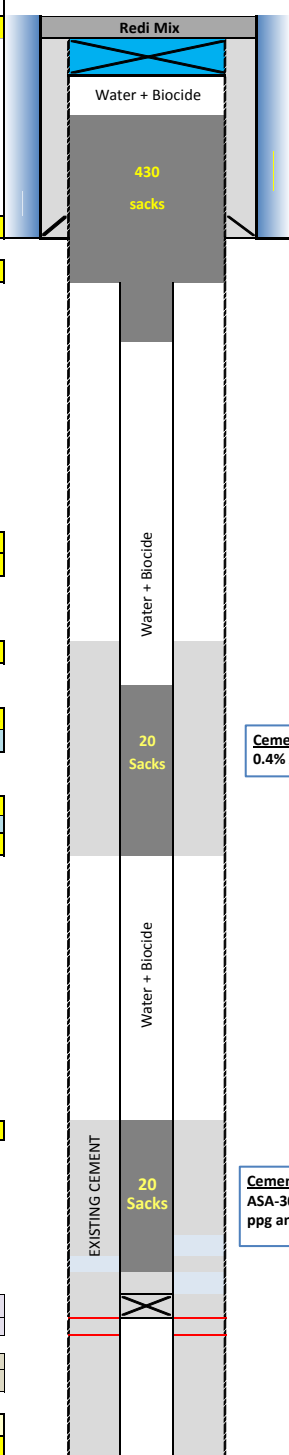
Shannon	No perfs	Absent
NOT Productive within 1 mile radius		
Assumed BOC		4800

Assumed Existing TOC	6600
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Geologic Top	7097
Niobrara Perf Top	7178

Codell	Perf Top	7478
	Perf Bottom	7488

PBMD	7664
3-1/2" 9.3 # Casing	7664



## Proposed Additions for P&A

80	CIBP (8-5/8")
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600	TOC
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**Cement Blend:** Type III w/ celloflake and CaCl<sub>2</sub>, mixed at 14.0 ppg and 1.53 c uft/sk with 20% excess and 12" hole size.

1480	Casing Stub
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1580	Bottom of cement
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4400	Top of in pipe cement
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**Cement Blend:** "G" w/ 0.25 pps celloflake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk

4800	Bottom of in pipe cement
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6600	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 achieve 2:30 pump time mixed at 15.8 ppg and 1.38 cuft/sk.

7120	CIBP (4-1/2")
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API# 0512316515				
Well: CANNON RED W 15-12 (22355)				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft <sup>3</sup> /ft
Surface Casing	8 5/8" 24#	800	0.0637	0.3576
Production Casing	3-1/2" 9.30#	7662	0.008706	0.0488
Tubing	1-1/4"	7472	N/A	N/A
Hole Size	9"		0.0787	0.4418
Hole Size	11"		0.1175	0.66
Hole Size	12"		0.1399	0.7854

Cement Calculations				
Section	Volume	Cement Sacks	approximate	FX HILLS PLUG
Surface Casing	12.74	8.33		
Open Hole	640.89	418.88	20% excess	12" hole assumed
P/C hole	4.88	3.19		20% excess
Total Top Plug	658.51	430.40	430	

In Hole				SX/ SH Plug
In pipe	19.52	16.97		12" hole
Total		16.97	20	

NB/CD Annular				NB/CD Plug
NB/CD Csg.	25.38	18.39		11" hole
Total		18.39	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
	New cement
	cast iron cement retainer
	cast iron bridge plug