

# DAVIS 19-15

Existing Features	
KB	12

Bottom of Foxhills (FHM)	770
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Surface csg shoe at	800
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TOC (CBL)	2942
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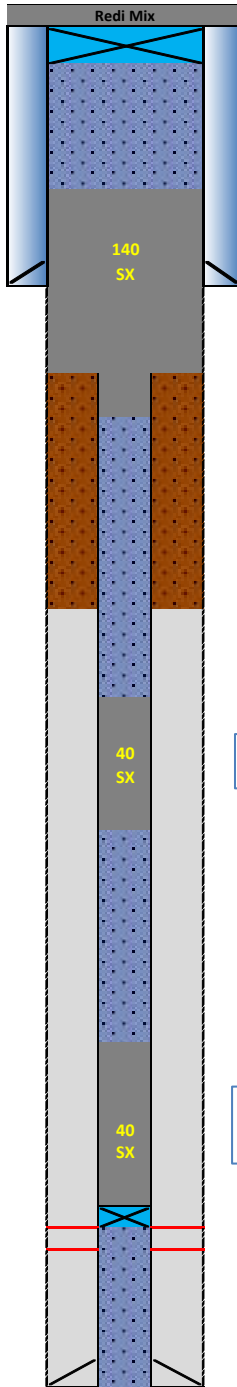
Sussex Top	4019
Not producing Sussex w/in 1 mile	
Sussex Bottom	4259

Shannon Base	4622
Not producing Shannon w/in 1 mile	

Niobrara Top	6845
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Codell Top	7111
Perf Top	7114
Perf Bottom	7134

PBMD	7248
4 1/2" 11.6# CSG	7262



### Proposed Additions for P&A

80	CIBP 8 5/8" 24#
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700	TOC
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Cement Blend: Type III w/ cello flake and CaCl<sub>2</sub> as necessary, mixed at 14.8 ppg and 1.33 cuft/sk yield.

1000	Casing Stub
1100	BOC

3810	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 yield.

4310	BOC
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6440	TOC
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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. Mix at 15.8 ppg and 1.38 cuft/sk.

7060	CIBP 4 1/2" 11.6#
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API#	05-123-23610			
WINS:	74150			
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft <sup>3</sup> /ft
Surface Casing	8 5/8" (24#)	800	0.0636	0.3575
Production Casing	4 1/2" (11.6#)	7262	0.0155	0.0873
Tubing Size	2 3/8" (4.7#)	7080	0.003870	0.02171
Hole Size (TOP)	9	N/A	0.0787	0.4418
Hole Size (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 cu-ft	Cement Sacks	Excess	
Open Hole	106.03	79.72	20%	Foxhills Plug 9 in. hole
Surface casing	35.75	26.88		
Production casing	8.73	6.56		
FX Total	141.78	113.16	140	
OH X CSG Annulus				
Production casing	43.65	37.96		
SU Total	43.65	37.96	40	
OH X CSG Annulus				
Production	54.13	39.22		
NB/CD Total	54.13	39.22	40	

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