

## SWEET VALLEY FARMS UPRR 31-33 #2

Existing Features	
KB	11

Surface csg shoe at	319
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Bottom of Foxhills (FHM)	865
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Sussex Top	4153
Producing Sussex w/in 1 mile	

Sussex Base	4444
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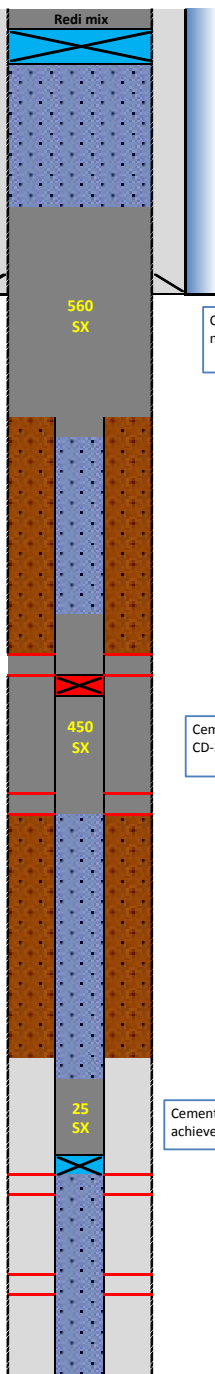
Shannon Base	4836
Not producing Shannon w/in 1 mile	

TOC (CBL)	6390
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Niobrara Top	6962
Perf Top	6964
Perf Bottom	7054

Codell	7574
Perf Top	7856
Perf Bottom	7891

PBMD	7974
4 1/2" 10.5# CSG	8029



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

110	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 cu-ft/sk.

970	Casing stub
1070	Bottom of cement

3790	TOC
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3950	Squeeze perfs
3980	CICR

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

4560	BOC
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6500	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. Mixed at 15.8 ppg and 1.38 cu-ft/sk.

6900	CIBP 4 1/2" 11.6#
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API#	05-123-14804			
Wins:	76225			
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft <sup>3</sup> /ft
Surface Casing	8 5/8" (24#)	319	0.0637	0.3576
Production Casing	4 1/2" (11.6#)	7410	0.01596	0.0896
Tubing Size	2 3/8" (4.7#)	7229	0.0039	0.02171
Hole Size (TOP)	11.5	N/A	0.1285	0.7213
Annulus (TOP)	11.5	N/A	0.1088	0.6109
Annulus (SU/SH)	11.5	N/A	0.1088	0.6109
Annulus (NB)	N/A	N/A	N/A	N/A

Cement Calculations				
Section	Volume (cu ft)	Cement (lb)	Excess	
Open Hole	657.40	494.29	40%	Top Plug
Surface casing	74.74	56.19		11.5 in. OH
Production casing	8.96	6.74		(Caliper on file)
FX Total	741.10	557.22	560	
Open Hole			20%	Sussex Suicide
Production casing	68.992	59.99304		11.5 in. OH
Annulus	447.15	388.829		(Caliper on file)
SX Total	516.15	448.822	450	
Open Hole				Niobrara
Production casing	35.84	25.97		
Annulus				
NB Total	35.84	25.97	25	

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