

OLANDER 2

Existing Features	
KB	11

Surface csg shoe at	512
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Bottom of Foxhills (FHM)	768
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Sussex Top	4280
Producing Sussex w/in 1 mile	

Shannon Base	4770
Producing Shannon w/in 1 mile	

TOC (Calc)	6869
9" OH (Caliper), 1.28 YLD (Cmt ticket)	

Niobrara Top	7131
Perf Top	7146
Perf Bottom	7156

Codell	7574
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J Sand	7856
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#

310	TOC
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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.

970	Casing stub
1070	Bottom of cement

3920	TOC
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4080	Squeeze perfs
4110	CICR

Cement Blend: "G" w/ 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cuft/sk.

4970	BOC
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6450	TOC
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6640	Squeeze perf
6670	CICR

Cement Blend: 50/50 Poz "G" w/20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52. Mixed at 13.5 ppg and 1.71 cu-ft/sk.

6860	Squeeze perf
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7080	CIBP 4 1/2"
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7800	CIBP 4 1/2"
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API#	05-123-10228			
Wins:	74325			
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casing	8 5/8" 24#	512	0.0637	0.3576
Production Casing	4 1/2" (10.5/11.6#)	8029	0.01596	0.0896
Tubing Size	2 3/8" (4.7)	7841	0.0039	0.02171
Hole Size (TOP)	11	N/A	0.1175	0.6600
Annulus (TOP)	11	N/A	0.1056	0.5931
Annulus (SU/SH)	11	N/A	0.1056	0.5931
Annulus (NB)	9.5	N/A	0.0758	0.4254

Cement Calculations				
Section	Volume (cu ft)	Cement (lb)	Excess	
Open Hole	423.16	318.17	40%	Top Plug 11 in. OH (Caliper on file)
Surface casing	72.24	54.31		
Annulus	83.04	62.44		
FX Total	578.44	434.91	440	
Open Hole			20%	Sussex Suicide 9.5 in. OH (Caliper on file)
Production casing	94.08	81.8087		
Annulus	633.47	550.8458		
SX Total	727.55	632.6545	640	
Open Hole			40%	Niobrara Suicide
Production casing	36.74	21.48		
Annulus	131.030594	76.62608		
NB Total	167.77	98.11	100	

Cement Yield	1.33	1.15	1.71
	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