

SEC. 4 INVESTORS 34-4

Existing Features		
KB	14	

Surface csg shoe at	893
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Bottom of Foxhills (FHM)	1082
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TOC Cement existing (CBL)	4575
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Sussex	Top	4567
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Sussex	Base	4724
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Shannon	Bottom	5126
Shannon IS productive w/in 1 mile radius		

Nio Top	7482
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Geologic Top		
Codell	Perf Top	7822
	Perf Bottom	7836

Geologic Top		
J Sand	Perf Top	8268
	Perf Bottom	8286

PBMD	8324
3-1/2" 7.7# CSG	8335

Proposed Additions for P&A

80	CIBP (8-5/8")
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650	TOC
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Cement Blend: Type III w/ cello flake and CaCl₂, mixed at 14.8 ppg and 1.33 cuft/sk. with 20% excess and 9" hole size.

1282	Casing Stub
1400	Bottom of cement

4350	Top of cement
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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

5325	Bottom of cement
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7080	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 cuft/sk

7750	CIBP w/ 2 sk cmt cap
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8200	CIBP w/ 2 sk cmt cap
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NB 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 cuft/sk yield with 40% excess and 10" hole size.

API# 0512322438				
Well: SEC INVESTORS 34-4 (67783)				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casina	8 5/8" 24#	313	0.0637	0.3576
Production Casina	4.5	7418	0.0155	0.0837
Tubing Size	11.6#			
Bit Size	7 7/8		0.0602	0.3382
Hole Size	9		0.0787	0.4418
Hole Size	10		0.0971	0.5454
Hole Size	12.5		0.1518	0.8522

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	Top Plug
S/C hole	86.90	65.34		9" hole Caliper to 4200'
Open Hole	240.60	180.90	40%	
P/C	15.64	11.76		
Total Top Plug	343.13	257.99	260	
345.8		cu-ft		

In Hole				SX/ SH Plug
In pipe	81.61	70.96		
Total	81.61	70.96	70	

				NB/CD Plug
NB csg top	56.08	40.64		
Total	56.08	40.64	40	

Cement Yield	1.33	1.15	1.71	1.38
Top Plug	SX/SH	NB/Cd Squeeze	NB/Cd in pipe	

Legend	
	Existing cement with CBL
	assumed cement w/ no CBL
	cast iron cement retainer
	cast iron bridge plug
	mud
	2% KCL Water