

Randi 9-16 A (74455)

Existing Features	
KB	10

Surface csg shoe at	769
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Bottom of Foxhills	1145
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TOC Cement existing	3972
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Top	4510
Sussex	No Perfs

Shannon	Bottom	5080
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BOC Cement existing	5447
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TOC Existing	6872
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Top	7331
Niobrara	No Perfs

Top	7593
Codell	No Perfs

Top		8038
J Sand	Top Perf	8042
	Bottom Perf	8085

PBMD	8134
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Proposed Additions for P&A

100	CIBP w/ redi mix
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570	TOC
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1345	Casing Stub
1445	Bottom of cement

4310	Top of in pipe cement
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5130	Bottom of in pipe cement
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6860	Top of in pipe cement
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7260	CIBP
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7940	CIBP	60-100' above top perf
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API#		0512320941			
Well:		Randi 9-16 A			
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft	
Surface Casing	8 5/8" 24#	769	0.0637	0.3576	
Production Casing	4 1/2" 11.6#	8134	0.0155	0.0873	
Tubing	2 3/8" 4.70#	8021	0.003870	0.0217	
Sx/ Sh Casing Hole size	9"		0.0787	0.4418	
NB/CD Casing Hole size	N/A		N/A	N/A	

Legend	
	cement with CBL
	new proposed cement
	assumed cement w/ no CBL
	cast iron cement retainer
	cast iron bridge plug
	mud

Cement Calculations

Section	Volume	Cement Sacks	approximate	Top Plug
S/C hole	71.16	46.51		
P/C annular hole	305.37	199.59		
P/C hole	8.73	5.71		
Total Top Plug	385.26	251.81	260	

Sx/ Sh	Volume	Cement Sacks	approximate	SX/ SH Plug
In pipe	71.59	62.25	70	
Total			70	

NB/CD Annular	N/A	N/A		NB/CD Plug
NB/CD Csg.	34.92	25.30	25	
Total			30	

Cement Yield	1.53	1.15	1.71	1.38
Top Plug	SX/SH	NB/Cd Squeeze	NB/Cd in pipe	