

JOHNSON UPRR 31-35

Existing Features	
KB	11

Surface csg shoe at	346
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Bottom of Foxhills (FHM)	941
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Estimated TOC	3500
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Sussex	Top	4220
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Sussex	Base	N/A
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BOC (Stage Tool)	4636
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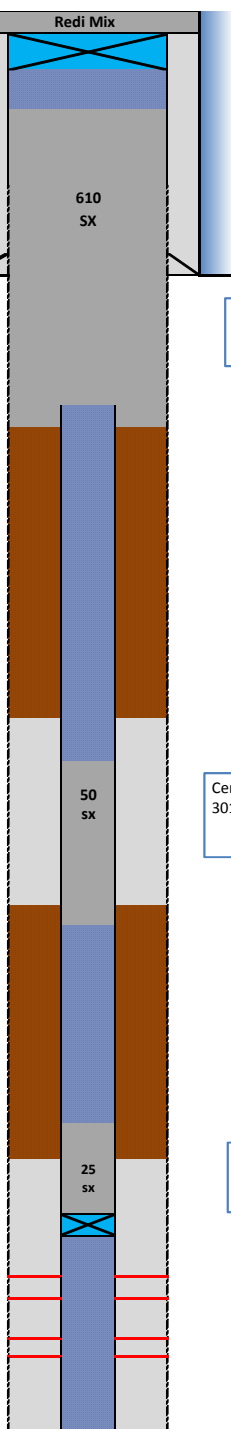
Shannon	Bottom	N/A
No shannon production w/in 1 mile radius		

TOC Annulus existing (CBL)	6370
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CIBP w/ CCL and setting tool	6934
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Niobrara Geologic Top		6964
Cod	Perf Top	6965
	Perf Bottom	7143
Geologic Top		
Cod	Perf Top	7257
	Perf Bottom	7269

PBMD	7374
4-1/2" 15.1# CSG	7376



Proposed Additions for P&A

80	CIBP (8-5/8")
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140	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 40%

1050	Casing Stub
1150	Bottom of cement

4020	Top of cement (tag)
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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

4740	Bottom of cement
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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 cuft/sk

6934	TOC
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API# 0512313104				
Well: JOHNSON UPRR 31-35				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casing	8 5/8" 24#	346	0.0637	0.3576
Production Casing	4.50 (15.1#)	7376	0.0142	0.0798
Tubing Size				
Bit Size	7 7/8		0.0602	0.3382
Hole Size	8.5		0.0702	0.3941
Hole Size	9.5		0.0877	0.4922
Hole Size	11.5		0.1285	0.7213

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	Top Plug
S/C hole	73.67	55.39		11.5" hole Caliper to 4250'
Open Hole	710.92	534.53	40%	
P/C annulus	24.43	18.37	40%	
Total Top Plug	809.03	608.29	610	
811.3		cu-ft		

In Hole				SX/ SH Plug
In pipe	57.46	49.96		
Total	57.46	49.96	50	
57.5 cu-ft				

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

NB csg	34.63	25.10		NB/CD Plug
Total	34.63	25.10	25	

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