

# Whittemore 7-28A (75374)

Existing Features		
KB	12	

## Proposed Additions for P&A

100	CIBP w/ redi mix
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715	TOC
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200'

Cement Blend: Type III + 0.2 % SPC 02 ; Density 14.2 ppg , Water Requirement = 7.32 gal/sk ; Yield = 1.46 cuft/sk ; Thickening Time = 2:49 at 80 F

1440	Casing Stub
1540	Bottom of cement

200'

4200	Top Squeeze perf
4240	CICR

200'

5220	Bottom Squeeze perf
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Cement Blend: 1:2:3 'Poz:III: Gel' + 3% (BWOW) KCl +1% SMS +0.4% CR-4 +0.2% SPC-2 + 2lb/sk PS Flake ; Density = 12.5 ppg, Water Requirement = 10.52 ga/sk , Yield = 1.93 cuft/sk , Thickening Time = 3:12 at 160 F

6460	Top of in pipe cement
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6860	CIBP
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Cement Blend: 1:1:3 'Poz:G:Gel' + 20% silica flour +0.4% CFL-2 +0.1%SMS +0.05%CR-4 Density 13.5 ppg Thickening Time : 4:19 at 200 F, Yield 1.66 cuft/ sk

7610	CIBP
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Legend	
	cement with CBL
	new proposed cement
	assumed cement w/ no CBL
	cast iron cement retainer
	cast iron bridge plug
	mud

API# 0512321425				
Well: Whittemore 7-28A				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft <sup>3</sup> /ft
Surface Casing	8 5/8" 24#	752	0.0637	0.3576
Production Casing	4 1/2" 11.6#	8058	0.0155	0.0873
Tubing Strina	N/A	N/A	N/A	N/A
Sx/ Sh Casing Hole size	9"		0.0787	0.4418
NB/CD Casing Hole size	12"		0.1399	0.7854

Cement Calculations				
Section	Volume	Cement Sacks	approximate	Top Plug
S/C hole	71.52	48.99		
P/C annular hole	278.33	190.64		
P/C hole	8.73	5.98		
Total Top Plug	358.58	245.61	250	

Sx/ Sh	433.91	224.82		SX/ SH Plug
In pipe	89.05	46.14		
Total		270.96	275	

NB/CD Annular	N/A	N/A		NB/CD Plug
NB/CD Csg.	34.92	21.04	25	
Total			30	

Cement Yield	1.46	1.93	1.66	1.66
Top Plug	SX/SH	NB/Cd Squeez	NB/Cd in pipe	

Surface csg shoe at	915
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Bottom of Foxhills	1338
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Sussex	Top	4330
	No Perfs	

Shannon	Bottom	5167
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TOC Cement existing	6350
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Geologic Top	6922
Niobrara	

Geologic Top	7220
Codell	

Geologic Top		7671
J Sand	Perf Top	7673
	Perf Bottom	7713

BOC Cement existing	7818
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PBMD	7820
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