

## WICKED 1 - PROPOSED

Existing Features		
KB	10	

Deepest 1-mile water well	125	
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Surface csg shoe at	300	
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Sussex	Top	N/A
Sussex not productive w/in 1 mile radius		

Shannon		4125
Shannon not productive w/in 1 mile radius		

Casing Cut	5400	
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TOC (no CBL)	6500	
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Nio Top	6692	
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CIBP w/ 2 sx cmt cap	7000	
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5-1/2" CSG 17#	7175	
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### Proposed Additions for P&A

80	Redi-Mix to surface CIBP (8-5/8")
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100	TOC
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Cement Blend: Type III w/ cello flake and CaCl<sub>2</sub>, mixed at 14.8 ppg and 1.33 cuft/sk. with 40%

500	Bottom of cement
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3925	Top of cement
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Cement Blend: "G" w/ 0.25 pps cello flake , 0.4% CD-32, 0.4% ASA - 301, mixed at 15.8 ppg and 1.15 cuft/sk, with 40% excess used and considering hole size of 12.5".

4325	Bottom of cement
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5000	Top of cement
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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 assuming 8.5" hole with 40% excess

7000	Bottom of cement
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API# 0506906273				
Well: WICKED 1				
Equipment	Specs.	Depth	(bbl/ft)	ft <sup>3</sup> /ft
Surface	8 5/8"	430		0.576
Production	5-1/2"	7195	0.0188	0.1336
Casing	15.5#			
Bit Size	7 7/8		0.0238	0.3382
Hole Size	8.5		0.0702	0.3941
Hole Size	10		0.0971	0.5454
Hole Size	10.5		0.1071	0.6013
Hole Size	12.5		0.1518	0.8522

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

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	Top Plug
OpenHole	168	127	40%	10.5" hole
In pipe	115	87		
Total Top Plug	284	213	220	

round up 292.6 220

openhole	477	415	40%	SX/ SH Plug
In pipe				12.5" HOLE
Total	477	415	420	caliper

round up 483

Legend	
	New cement
	Existing cement with CBL
	assumed cement w/ no CBL
	cast iron cement retainer
	cast iron bridge plug
	mud
	Water
	sand

	cu-ft	sacks		
NB/CD OH	221	160	40%	8.5" Hole
NB/CD Csg.	214	155		NB/CD Plug
Total	434	315	320	

round up 441.6 320