

UPRR 43 Pan Am UT Y 1 - PROPOSED

Existing Features	
KB	10

Surface csg shoe at	774
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Bottom of Foxhills (FHM)	1212
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Casing Cut	3325
TOC (CBL)	3350

Sussex	Top	4252
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Shannon	5220
No shannon production w/in 1 mile radius	

CIBP 5-1/2" w/ 2sk	7450
Geologic Top	7470
Niobrara Perf Top	7502
Niobrara Perf Bottom	7510
PBMD	8296
5-1/2" CSG 15.5#	8434

Proposed Additions for P&A

80	Redi-Mix to surface
	CIBP (8-5/8")

500	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

1415	Bottom of cement
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3125	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 20% excess used and considering hole size of 12.5".

3425	Bottom of cement
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7025	Top of cement in casing
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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

7425	Bottom of cement
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API# 0512312547				
Well: UPRR 43 Pan Am UT Y 1 (H8951)				
Equipment	Specs.	Depth	(bbl/ft)	ft ³ /ft
Surface	8 5/8"	593	0.0637	0.3576
Production	5.5	8434	0.0238	0.1336
Casing	(15.5#)		0.0602	0.3382
Bit Size	7 7/8		0.0787	0.4418
Hole Size	9		0.0971	0.5454
Hole Size	10		0.1518	0.8522
Hole Size	12.5		0.1642	0.9218

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	709	533	20%	13" hole
In pipe	98	74		caliper
Total Top Plug	807	607	610	

round up 811.3

openhole	205	178	20%	SX/ SH Plug
In pipe	13	12		12.5 " HOLE
Total	218	189	190	caliper

round up 218.5

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

	cu-ft	sacks		Assume 10" hole
NB/CD Annular				
NB/CD Csg.	53	39		NB/CD Plug
Total	53	39	40	

round up 55.2