

# HSR-Melvin Camp 11-31

Existing Features		
KB	10	

8-5/8" 24# Surface csg shoe	741
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Bottom of Foxhills (FHM)	1244
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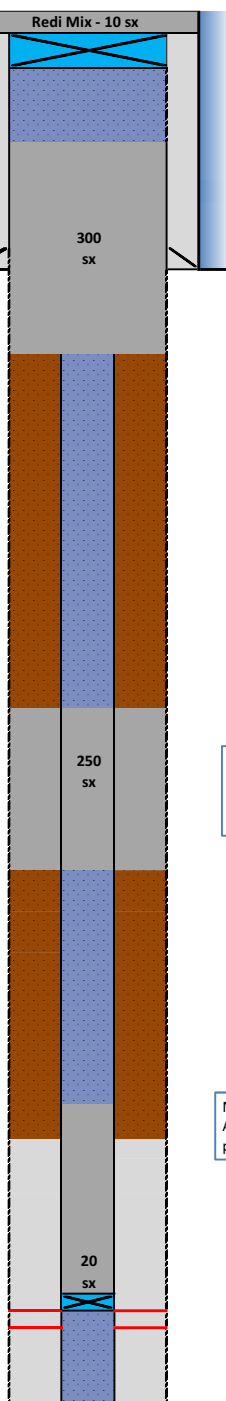
Sussex	Top	4367
Sussex	Bottom	4660

SX is productive within 1 mile  
SH is non productive within 1 mile

TOC Primary existing (CBL)	6420
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Nibrara	Top	7052
Nio	Perf Top	7100
	Perf Bottom	7103
Codell	Perf Top	7337
	Perf Bottom	7347

PBMD	7466
2-7/8" CSG 6.5#	7467



Proposed Additions for P&A	
150	CIBP (8-5/8")

640	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 20%

1350	Csg Stub
1350	Bottom of Cement

4160	TOC in csg
4160	TOC in annulus

Sussex 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 and 9" hole size.

4710	BOC
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6250	TOC in csg
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NB 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

7050	BOC in csg
7050	CIBP

API# 05-123-18278				
Well: HSR-Melvin Camp 11-31				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft <sup>3</sup> /ft
Surface Casing	8 5/8" 24#	741	0.0637	0.3576
Production Casing	2 7/8" (6.5#)	7467	0.00579	0.0325
Tubing Size				
Bit Size	7 7/8		0.0602	0.3382
Hole Size	8		0.0622	0.3491
Hole Size	9		0.0787	0.4418
Hole Size	12		0.1399	0.7854

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	Top Plug
8-5/8" csg	71.88	54.04		9" Caliper to 7200'
OH	322.86	242.75	20%	
2-7/8" csg	0.00	0.00		
Total Top Plug	394.74	296.79	300	
399		cu-ft		

				SX/ SH Plug 9"
annulus	261.72	227.58	20%	Caliper
Casing	17.88	15.54		
Total	279.60	243.13	250	
287.5		cu-ft		
NB/CD Csg	26.00	18.84		NB/CD Plug
Total	26.00	18.84	20	
27.6				
Cement Yield	1.33	1.15	1.71	1.38
	Top Plug	SX/SH	NB/Cd Squeeze	NB/Cd in pipe

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