

HSR-SCOTTSDALE RANCHES 7-2

Existing Features	
KB	10

Surface csg shoe at	669
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Bottom of Foxhills (FHM)	770
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Sussex	Top	4214
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Shannon	Bottom	4740
No shannon production w/in 1 mile radius		

TOC Cement existing (CBL)	5944
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Geologic Top		6890
NIOBRAR	Perf Top	6895
	Perf Bottom	6967

Geologic Top		
CODELL	Perf Top	7183
	Perf Bottom	7188

PBMD	7278
4-1/2" CSG 11.6#	7315

Proposed Additions for P&A

80	CIBP (8-5/8")
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450	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%

970	Casing Stub
1070	Bottom of cement in csg

3850	TOC in csg
4000	TOC in Annulus
4030	CICR

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,

4520	Bottom of cement
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6350	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

6830	CIBP w/ 30 sx cmt
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API# 0512317969				
Well: HSR-SCOTTSDALE 7-2				
Equipment	Specs.	Depth	Capacity (bbl/ft)	Capacity ft ³ /ft
Surface Casina	8 5/8" 24#	669	0.0637	0.3576
Production Casina	4.50 (11.6#)	7315	0.0155	0.0872
Tubing Size				
Bit Size	7 7/8		0.0602	0.3382
Hole Size	8.25		0.0661	0.3712
Hole Size	10		0.0971	0.5454
Hole Size	13.5		0.1770	0.9940

Cement Calculations				
Section	Volume cu-ft	Cement Sacks	Excess	Top Plug
S/C hole	78.31	58.88		8.25" / 13.5" was
Open Hole	149.03	112.05	20%	
P/C hole	8.72	6.56		
Total Top Plug	236.07	177.49	180	
239.4 cu-ft				

out CICR	42.73	37.15		SX/ SH Plug 8.25" CALIPER
in Annulus	162.72	141.50	20%	
top CICR	15.70	13.65		
Total	205.45	178.65	180	
207 cu-ft				

NB/CD Annular				NB/CD Plug 9.5" hole caliper at 7200
NB/CD Csg. Out				
NB csg top	41.86	30.33		
Total	41.86	30.33	30	
41.4				

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

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