

API:	05-123-19165	KB ELEVATION:	4843	QTR-QTR:	SESE
WELL NAME:	HSR-HEINTZELMAN 16-32	GROUND LEVEL:	4833	SECTION:	32
COUNTY:	WELD	MD:	7903	TOWNSHIP:	3N
LATITUDE:	40.176398662	PBMD:	7869	RANGE:	67W
LONGITUDE:	-104.906007520	CREATED BY:	C. MARTIN		
		DATE:	11/26/2018		

Existing		DATUM: RKB KB=10'		FINAL	
Hole Size/Depth	12-1/4" - 644'		Cmt to Surf		
			80'		
<u>Surface Casing</u>			140 sx	404'	Tgd TOC
Casing Size/Depth: 8-5/8", 24#/ft @	634'		1.55 yld		
			14 ppg		
Fox Hills Formation Marker	803'		126 sx	849'	Tgd TOC/BOC in OH
			1.55 yld		
			14 ppg		
			95 sx	1251'	Tgd TOC/BOC in OH
			1.55 yld		
			14 ppg		
			4 sx	1608'	Shoot off casing
			1655'		
				3266'	Est TOC inside csg
				3400'	Top Sq Perfs
			3445'		
			115 sx		
			1.79 yld		
			12 ppg	3800'	Bot Sq Perfs
Sussex	TOC (from CBL)	3845'	2 sx		
			3970'		
Top	4174'				
Base	4355'				
NOT Productive within 1 mile					
	BOC (from CBL)	4628'			
Shannon	4739'				
NOT Productive within 1 mile					
				6327'	Est TOC inside csg
			40 sx		
	TOC (from CBL)	6616'	1.53 yld		
			15.8 ppg		
			7035'		
Niobrara Top	7061'				
Niobrara Perfs	7116' - 7118'				
Codell Perfs	7314' - 7319'				
	Liner Top	7382'			
<u>Production Casing/Hole</u>					
Casing Size/Depth	4-1/2", 11.6#/ft @	7475'	2 sx		
Hole Size/Depth	7-7/8" (bit size) @	7478'	7680'		
J Sand Perfs	7746' - 7780'				
<u>Liner Casing/Hole</u>					
Liner Size/Depth	2-7/8", 6.5#/ft @	7901'			
Hole Size/Depth	3-7/8" (bit size) @	7903'			

Existing Cement
New CICR
Existing CICR
New CIBP
Existing CIBP
New Cement
Sand Plug
Existing Mud