

LUDWIG 1-5 1 CURRENT WBD 05-123-14453

Existing		DATUM: RKB		Proposed
Hole Size/Depth	12-1/4" / 528'		KB=-11'	
			1.23 yld	
			15.8 ppg	
			250 sx	
	300 Sx Cmt			
Surface Casing	8-5/8", 24#/ft set @ 514'			
Deepest	water well in 1 mile - 530'			
			1.23 yld	
			710'	650' Perfs/BOC/TOC
			15.8 ppg	
			190 sx	1150' Perfs/BOC
	Annular Cement Squeeze			
	TOC (from CBL) 4300'			
			2 sx	
Sussex	Productive in 1 mile		4470'	
Top	4234'			
Sussex Perfs	4532' - 4548'			
	Abandonment Squeeze			
100 sx	Cmt: BOC (from CBL) 4532' - 4548'			
Base	4548'			
Shannon Base	Absent			
	Annular Cement Squeeze			
150 sx	Cmt: BOC (from CBL) 4646'			
	TOC (from CBL) 6500'			
			2 sx	
Niobrara Top	6952'		6900'	
			2 sx	
			7600'	
J Sand Perfs	7684' - 7746'			
	300 Sx Cmt			
Production Casing	4-1/2", 11.6#/ft set @ 7907'			
Hole Size/Depth	7-7/8" / 7924'			

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