



Proposed PA WBD - Vertical

Well Name: BERNHARDT 3-36

ORIGINAL HOLE [Land]		Well Header									
MD (ftKB)	Vertical schematic (proposed)	Surface UWI 0512315487				Business Unit Rockies		Gov Auth Dist Evans		Prod Tree Loc Land	
		Orig. KB to Gnd (ft) 12.00		Original Spud Date 1/8/1992		Abandon Date		Well Sub-Status PR		High...	
		Comment 3 1/4" ID FRAC BAFFLE @ 7246'									
		DRILLER'S TD 7510, LOGGER'S TD 7514, PROD CSG DEPTH 7512'									
		NO WORKOVER/COMPLETIONS RPTS FOR THE 2002 CODELL REFRAC, TUBING DATAAND FGS OFF STATE RECORDS. NO PERF RECORDS FOUND.									
		Geologic Horizons									
		Formation Name FOXHILLS-BASE PROD								Final Top MD (ftKB) 226.6	
		Formation Name UPPER PIERRE AQUIFER-TOP PROD								Final Top MD (ftKB) 400.5	
		Formation Name NIOBRARA								Final Top MD (ftKB) 6,994.0	
		Formation Name UPPER PIERRE AQUIFER-BASE PROD								Final Top MD (ftKB) 1,365.9	
		Formation Name A SAND-TOP PROD								Final Top MD (ftKB) 2,387.2	
		Formation Name A SAND-BASE PROD								Final Top MD (ftKB) 2,871.5	
		Formation Name SUSSEX-TOP PROD								Final Top MD (ftKB) 4,160.6	
		Formation Name SUSSEX-BASE PROD								Final Top MD (ftKB) 4,515.7	
		Formation Name SHANNON-TOP PROD								Final Top MD (ftKB) 4,754.5	
		Formation Name SHANNON-BASE PROD								Final Top MD (ftKB) 5,071.5	
		Formation Name NIOBRARA-TOP PROD								Final Top MD (ftKB) 6,994.0	
		Formation Name NIO A CHALK								Final Top MD (ftKB) 6,994.0	
		Formation Name NIO A MARL								Final Top MD (ftKB) 7,016.6	
		Formation Name NIO B CHALK								Final Top MD (ftKB) 7,118.8	
		Formation Name NIO B MARL								Final Top MD (ftKB) 7,129.6	
		Formation Name NIO C CHALK								Final Top MD (ftKB) 7,186.1	
		Formation Name NIO C MARL								Final Top MD (ftKB) 7,217.0	
		Formation Name NIO D CHALK								Final Top MD (ftKB) 7,258.3	
		Formation Name NIO FT HAYS								Final Top MD (ftKB) 7,293.1	
		Formation Name CODELL								Final Top MD (ftKB) 7,314.0	
		Formation Name CARLILE								Final Top MD (ftKB) 7,334.8	
		Surface Location (Congressional)									
		Qtr 3 NE	Qtr 4 SW	Section 36	Twnshp 5	Twnsh... N	Range 67	Rng E/... W	Latitude (°) 40.35433	Longitude (°) -104.84373	
		Wellbore Sections									
		Section Des			Hole Size (in)			Top Depth (ftKB)		Btm Depth (ftKB)	
		SURFACE			12 1/4			12.0		350.0	
		PRODUCTION			7 7/8			350.0		7,514.0	
		Casing Strings									
		Csg Des		Run Date		OD (in)		Wt/Len (lb/ft)		Grade	
		Surface		1/9/1992		8 5/8		24.00		12	
		Production		1/13/1992		4 1/2		12.60		L-80	
										Top Depth (MD) (ftKB)	
										12	
										Set Depth (MD) (ftKB)	
										7512	
		Cement									
		Des						Start Date		Top (ftKB)	
		Surface Casing Cement						1/9/1992		12.0	
		Production Casing Cement						1/13/1992		6,410.0	
		Btm (ftKB)								7,512.0	
		Stim/Frac Summary									
		Min Top Depth (ftKB) 6,998.0						Max Btm Depth (ftKB) 7,334.0			
		Min Top Depth (ftKB) 7,318.0						Max Btm Depth (ftKB) 7,334.0			



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ORIGINAL HOLE [Land]		Perforations					
MD (ftKB)	<div>Vertical schematic (proposed)</div>	Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		Other In Hole					
		Run Date	Des	Make	OD (in)	Top (ftKB)	Btm (ftKB)
		Logs					
		Date	Type	Depth Top (MD) (ftKB)	Btm (ftKB)		
		1/13/1992	COMPENSATED DENSITY	4,200	7,493.0		
		1/13/1992	INDUCTION	340	7,513.0		
		1/25/1992	CEMENT BOND	6,200	7,444.0		
		Wellbore Plug Back Total Depths					
Date	Type	Com			PBTD (ftKB)		
1/25/1992	FILL	DEPTH LOGGER ON CBL			7,444		
3/20/1992	FILL	CLEAN OUT			7,435		