



PA Wellbore For State - Vertical

Well Name: RICHTER USX AB27-03

Original Hole [Land]		Well Header								
MD (ftK B)	Vertical schematic (actual)	Surface UWI 0512332659		Business Unit Rockies		Gov Auth Dist		Prod Tree Loc Land		
		Orig. KB to Gnd (ft) 13.00		Original Spud Date 3/8/2011		Abandon Date		Well Sub-Status PR		
		High...		N						
		Comment								
Geologic Horizons										
		Formation Name FOXHILLS-BASE PROD						Final Top MD (ftKB) 608.0		
		Formation Name UPPER PIERRE AQUIFER-TOP PROD						Final Top MD (ftKB) 748.9		
		Formation Name UPPER PIERRE AQUIFER-BASE PROD						Final Top MD (ftKB) 1,764.0		
		Formation Name A SAND-TOP PROD						Final Top MD (ftKB) 2,693.5		
		Formation Name A SAND-BASE PROD						Final Top MD (ftKB) 3,187.4		
		Formation Name PARKMAN						Final Top MD (ftKB) 3,749.2		
		Formation Name PARKMAN-TOP PROD						Final Top MD (ftKB) 3,786.7		
		Formation Name PARKMAN-BASE PROD						Final Top MD (ftKB) 4,232.4		
		Formation Name SUSSEX-TOP PROD						Final Top MD (ftKB) 4,353.7		
		Formation Name SUSSEX-BASE PROD						Final Top MD (ftKB) 4,732.6		
		Formation Name SHANNON-TOP PROD						Final Top MD (ftKB) 5,170.6		
		Formation Name SHANNON-BASE PROD						Final Top MD (ftKB) 5,258.3		
		Formation Name INTRA SHARON SPGS MK						Final Top MD (ftKB) 6,793.3		
		Formation Name NIO A CHALK						Final Top MD (ftKB) 6,822.0		
		Formation Name NIOBRARA-TOP PROD						Final Top MD (ftKB) 6,829.0		
		Formation Name NIO A MARL						Final Top MD (ftKB) 6,840.3		
		Formation Name NIO B CHALK						Final Top MD (ftKB) 6,933.4		
		Formation Name NIO B MARL						Final Top MD (ftKB) 6,967.4		
		Formation Name NIO C CHALK						Final Top MD (ftKB) 7,005.1		
		Formation Name NIO C MARL						Final Top MD (ftKB) 7,049.2		
		Formation Name NIO D CHALK						Final Top MD (ftKB) 7,075.2		
		Formation Name NIO FT HAYS						Final Top MD (ftKB) 7,096.3		
		Formation Name CODELL						Final Top MD (ftKB) 7,120.0		
		Formation Name CARLILE						Final Top MD (ftKB) 7,134.6		
		Formation Name GREENHORN						Final Top MD (ftKB) 7,165.0		
Surface Location (Congressional)										
		Qtr 3 NE	Qtr 4 NW	Section 27	Twnshp 7	Twnsh... N	Range 64	Rng E/... W	Latitude (°) 40.54965933 3	Longitude (°) -104.537973779
Wellbore Sections										
		Section Des			Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)	
		SURFACE			12 1/4		13.0		790.0	
		PRODUCTION			7 7/8		790.0		7,291.0	
Casing Strings										
		Csg Des		Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (MD) (ftKB)	Set Depth (MD) (ftKB)	
		Surface		3/9/2011	8 5/8	24.00	J-55	13	774.7	
		Production Casing		3/11/2011	4 1/2	11.60	M-80	13	7281.2	
Cement										
		Des			Start Date		Top (ftKB)		Btm (ftKB)	
		SURFACE CASING CEMENT			3/9/2011		13.0		774.7	
		PRODUCTION CASING CEMENT			3/12/2011		1,663.0		7,281.2	



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