



Current Horizontal PA Wellbore - Vertical Section

Well Name: COUGAR B02-69-1HN

Original Hole [Land]		Well Header								
MD (ftKB)	Vertical schematic (actual)	Surface UWI 0512336405		Business Unit Rockies		Gov Auth Dist		Prod Tree Loc Land		
		Orig. KB to Gnd (ft) 24.00		Original Spud Date 1/25/2014		Abandon Date		Well Sub-Status PR		
		Comment								
		Surface Location (Congressional)								
		Qtr 3 NW	Qtr 4 NW	Section 2	Twntshp 5	Twntsh... N	Range 64	Rng E/... W	Latitude (°) 40.43408492 5	Longitude (°) -104.524288047
		Wellbore Sections								
		Section Des			Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)	
		CONDUCTOR			26		24.0		124.0	
		SURFACE			13 1/2		124.0		2,006.0	
		INTERMEDIATE			8 3/4		2,006.0		6,991.0	
		PRODUCTION			6 1/4		6,991.0		10,282.0	
		Casing Strings								
		Csg Des		Run Date		OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (MD) (ftKB)	Set Depth (MD) (ftKB)
		Conductor		9/30/2013		16	42.05	A-52A	24	124
		Surface		1/26/2014		9 5/8	36.00	J-55	24	2000.5
		Intermediate Casing 1		1/29/2014		7	26.00	P-110 IC	24	6984
		Production Casing		2/1/2014		4 1/2	11.60	P-110 IC	6866.9	10272
		Cement								
		Des				Start Date		Top (ftKB)		Btm (ftKB)
		Conductor Cement				9/30/2013		24.0		124.0
		Surface Casing Cement				1/26/2014		24.0		2,000.5
		Intermediate Casing Cement				1/29/2014		780.0		6,984.0
		Zone Statuses								
		Zone Name	Status Date	Status	Fluid Type	Job			Prod Method	
		NIOBRARA	4/30/2014	PR		DRILLING/COMPLETION - ORIGINAL, 1/24/20...				
		Stim/Frac Stage								
		Zone				Start Date		Top (ftKB)		Btm (ftKB)
						3/30/2014		7,108.6		7,109.6
						3/30/2014		7,302.6		7,303.6
						3/30/2014		7,499.5		7,500.5
						3/30/2014		7,697.0		7,698.0
						3/30/2014		7,889.7		7,890.7
						3/30/2014		8,128.7		8,129.7
						3/30/2014		8,323.8		8,324.8
						3/30/2014		8,518.4		8,519.4
						3/30/2014		8,709.0		8,710.0
						3/30/2014		8,899.8		8,900.8
						3/30/2014		9,097.9		9,098.9
						3/30/2014		9,339.5		9,340.5
						3/30/2014		9,535.8		9,536.8
						3/30/2014		9,731.6		9,732.6
						3/30/2014		9,929.2		9,930.2
		NIOBRARA, Original Hole				3/30/2014		10,188.7		10,189.7
		Other In Hole								
		Run Date		Des				OD (in)	Top (ftKB)	Btm (ftKB)
		Logs								
		Date		Type					Depth Top (MD) (ftKB)	Btm (ftKB)
		1/27/2014		MUD LOG - VERT					2,000	10,282.0
		1/28/2014		MWD GAMMA - TVD					5,950	6,652.0
		1/30/2014		LATERAL MUD LOG					6,991	10,282.0
		1/31/2014		MUD LOG - HZ					5,950	10,282.0
		2/1/2014		MWD GAMMA - MD					5,950	10,282.0
		2/24/2014		CBL/CCL/GR					24	6,746.0
		Wellbore Plug Back Total Depths								
		Date		Type		Com			PBTD (ftKB)	
		2/1/2014		FLOAT COLLAR		FLOAT COLLAR			10,270	