



Original Hole [Land]		Well Header								
MD (ftKB)	Vertical schematic (actual)	Surface UWJ 0512336534	Business Unit Rockies		Gov Auth Dist		Prod Tree Loc Land			
		Orig. KB to Gnd (ft) 24.00	Original Spud Date 2/28/2013	Abandon Date		Well Sub-Status PR		High...		
		Comment								
		Geologic Horizons								
		Formation Name FOXHILLS-BASE PROD					Final Top MD (ftKB) 235.4			
		Formation Name UPPER PIERRE AQUIFER-TOP PROD					Final Top MD (ftKB) 380.2			
		Formation Name UPPER PIERRE AQUIFER-BASE PROD					Final Top MD (ftKB) 1,409.2			
		Formation Name A SAND-TOP PROD					Final Top MD (ftKB) 2,294.5			
		Formation Name A SAND-BASE PROD					Final Top MD (ftKB) 2,817.4			
		Formation Name PARKMAN-TOP PROD					Final Top MD (ftKB) 3,462.0			
		Formation Name PARKMAN-BASE PROD					Final Top MD (ftKB) 3,868.2			
		Formation Name SUSSEX-TOP PROD					Final Top MD (ftKB) 3,993.0			
		Formation Name SUSSEX-BASE PROD					Final Top MD (ftKB) 4,392.3			
		Formation Name SHANNON-TOP PROD					Final Top MD (ftKB) 4,792.0			
		Formation Name SHANNON-BASE PROD					Final Top MD (ftKB) 4,993.5			
		Formation Name TEPEE BUTTES					Final Top MD (ftKB) 5,741.1			
		Formation Name INTRA SHARON SPGS MK					Final Top MD (ftKB) 6,594.0			
		Formation Name NIOBRARA-TOP PROD					Final Top MD (ftKB) 6,656.8			
		Surface Location (Congressional)								
		Qtr 3 NW	Qtr 4 NW	Section 1	Twnshp 5	Twnshp... N	Range 64	Rng E/... W	Latitude (°) 40.43464524	Longitude (°) -104.505647022
		Wellbore Sections								
		Section Des		Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)		
		CONDUCTOR		26		24.0		124.0		
		SURFACE		13 3/4		124.0		643.0		
		INTERMEDIATE 1		8 3/4		643.0		7,028.0		
		PRODUCTION		6 1/8		7,028.0		17,000.0		
		Casing Strings								
		Csg Des		Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (MD) (ftKB)	Set Depth (MD) (ftKB)	
		Conductor		1/5/2013	16	42.05	A-52A	24	124	
		Surface		2/28/2013	9 5/8	36.00	J-55	24	633.3	
		Intermediate Casing 1		3/3/2013	7	26.00	P-110	24	7022.4	
		Production Casing		3/13/2013	4 1/2	11.60	P-110	6874.1	16990	
		Casing String Items with Pull Dates								
		Casing Description Tie Back Liner				Run Date 4/5/2013		Pull Date 4/22/2014		
		Cement								
		Des			Start Date		Top (ftKB)		Btm (ftKB)	
		Conductor Cement			1/5/2013		24.0		124.0	
		Surface Casing Cement			2/28/2013		24.0		633.3	
		Intermediate 1 Casing Cement			3/3/2013		1,110.0		7,022.4	
		Stim/Frac Summary								
		Min Top Depth (ftKB) 7,841.0				Max Btm Depth (ftKB) 16,370.0				
		Perforations								
		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13			Top Depth (ftKB) 7,841.0		Bottom Depth (ftKB) 7,842.0		
		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13			Top Depth (ftKB) 8,079.0		Bottom Depth (ftKB) 8,080.0		
		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13			Top Depth (ftKB) 8,358.0		Bottom Depth (ftKB) 8,359.0		



# PA Wellbore For State - Horizontal, Vertical Section

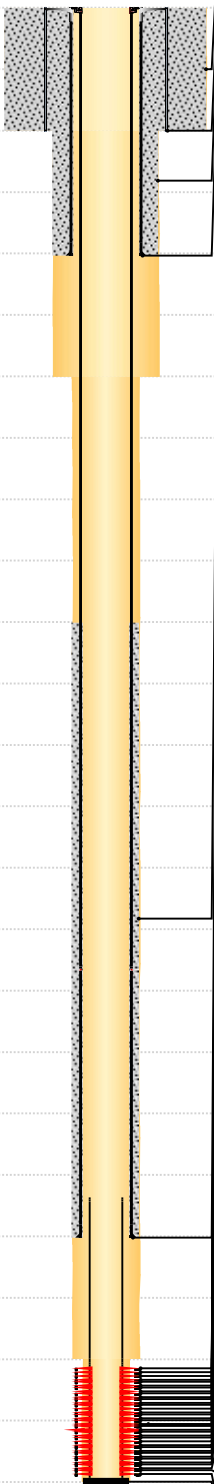
Well Name: LUCI STATE B03-69HNL

Original Hole [Land]		Perforations			
MD (ftKB)	Vertical schematic (actual)	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 8,675.0	Bottom Depth (ftKB) 8,676.0
	Conductor Cement, Casing, 1/5/2013 15:30; 24-124; 2013-01-05 15:30; ALL ADDITIVES PUMPED	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 8,911.0	Bottom Depth (ftKB) 8,912.0
-414.1	Conductor, Actual, 124ftKB; 24-124; 100.00	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 9,183.0	Bottom Depth (ftKB) 9,184.0
24.0	Surface Casing Cement, Casing, 2/28/2013 13:15; 24-633.3; 2013-02-28 13:15	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 9,420.0	Bottom Depth (ftKB) 9,421.0
74.0	Surface, Actual, 633.3ftKB; 24-633.3; 609.32	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 9,659.0	Bottom Depth (ftKB) 9,659.0
	Intermediate Casing Cement, Casing, 3/3/2013 14:12 (Intermediate 1 Casing Cement); 1110-7022.4; 2013-03-03 14:12	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 9,891.0	Bottom Depth (ftKB) 9,892.0
	Intermediate Casing 1, Actual, 7022.4ftKB; 24-7022.4; 6,998.37	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 10,126.0	Bottom Depth (ftKB) 10,127.0
124.0	7,841.0-7,842.0ftKB on 5/5/2013 18:13 (Perforated); 7841-7842; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 10,365.0	Bottom Depth (ftKB) 10,366.0
	8,079.0-8,080.0ftKB on 5/5/2013 18:13 (Perforated); 8079-8080; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 10,604.0	Bottom Depth (ftKB) 10,605.0
378.6	8,358.0-8,359.0ftKB on 5/5/2013 18:13 (Perforated); 8358-8359; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 10,839.0	Bottom Depth (ftKB) 10,840.0
	8,675.0-8,676.0ftKB on 5/5/2013 18:13 (Perforated); 8675-8676; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 11,079.0	Bottom Depth (ftKB) 11,080.0
633.2	8,911.0-8,912.0ftKB on 5/5/2013 18:13 (Perforated); 8911-8912; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 11,318.0	Bottom Depth (ftKB) 11,319.0
638.1	9,183.0-9,184.0ftKB on 5/5/2013 18:13 (Perforated); 9183-9184; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 11,552.0	Bottom Depth (ftKB) 11,553.0
	9,420.0-9,421.0ftKB on 5/5/2013 18:13 (Perforated); 9420-9421; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 11,820.0	Bottom Depth (ftKB) 11,821.0
643.0	9,659.0-9,659.0ftKB on 5/5/2013 18:13 (Perforated); 9659-2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 12,052.0	Bottom Depth (ftKB) 12,053.0
	9,891.0-9,892.0ftKB on 5/5/2013 18:13 (Perforated); 9891-9892; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 12,285.0	Bottom Depth (ftKB) 12,286.0
738.0	10,126.0-10,127.0ftKB on 5/5/2013 18:13 (Perforated); 10126-10127; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 12,521.0	Bottom Depth (ftKB) 12,522.0
833.0	10,365.0-10,366.0ftKB on 5/5/2013 18:13 (Perforated); 10365-10366; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 12,758.0	Bottom Depth (ftKB) 12,759.0
	10,604.0-10,605.0ftKB on 5/5/2013 18:13 (Perforated); 10604-10605; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 12,991.0	Bottom Depth (ftKB) 12,992.0
971.5	10,839.0-10,840.0ftKB on 5/5/2013 18:13 (Perforated); 10839-10840; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 13,228.0	Bottom Depth (ftKB) 13,229.0
1,109.9	11,079.0-11,080.0ftKB on 5/5/2013 18:13 (Perforated); 11079-11080; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 13,462.0	Bottom Depth (ftKB) 13,463.0
	11,318.0-11,319.0ftKB on 5/5/2013 18:13 (Perforated); 11318-11319; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 13,703.0	Bottom Depth (ftKB) 13,704.0
1,642.4	11,552.0-11,553.0ftKB on 5/5/2013 18:13 (Perforated); 11552-11553; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 13,979.0	Bottom Depth (ftKB) 13,980.0
	11,820.0-11,821.0ftKB on 5/5/2013 18:13 (Perforated); 11820-11821; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 14,215.0	Bottom Depth (ftKB) 14,216.0
2,174.9	12,052.0-12,053.0ftKB on 5/5/2013 18:13 (Perforated); 12052-12053; 2013-05-05 18:13	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13		
2,225.9	12,285.0-12,286.0ftKB on 5/5/2013 18:13 (Perforated); 12285-12286; 2013-05-05 18:13				
	12,758.0-11,926.0ftKB on 5/5/2013 18:13 (Perforated); 12758-11926; 2013-05-05 18:13				
2,276.9	12,521.0-12,522.0ftKB on 5/5/2013 18:13 (Perforated); 12521-12522; 2013-05-05 18:13				
	12,758.0-12,759.0ftKB on 5/5/2013 18:13 (Perforated); 12758-12759; 2013-05-05 18:13				
4,359.4	12,991.0-12,992.0ftKB on 5/5/2013 18:13 (Perforated); 12991-12992; 2013-05-05 18:13				
6,441.9	13,228.0-13,229.0ftKB on 5/5/2013 18:13 (Perforated); 13228-13229; 2013-05-05 18:13				
	13,462.0-13,463.0ftKB on 5/5/2013 18:13 (Perforated); 13462-13463; 2013-05-05 18:13				
6,492.9	13,703.0-13,704.0ftKB on 5/5/2013 18:13 (Perforated); 13703-13704; 2013-05-05 18:13				
6,544.0	13,979.0-13,980.0ftKB on 5/5/2013 18:13 (Perforated); 13979-13980; 2013-05-05 18:13				
	14,215.0-14,216.0ftKB on 5/5/2013 18:13 (Perforated); 14215-14216; 2013-05-05 18:13				
6,783.1	14,448.0-14,449.0ftKB on 5/5/2013 18:13 (Perforated); 14448-14449; 2013-05-05 18:13				
	14,677.0-14,678.0ftKB on 5/5/2013 18:13 (Perforated); 14677-14678; 2013-05-05 18:13				
7,022.3	14,914.0-14,915.0ftKB on 5/5/2013 18:13 (Perforated); 14914-14915; 2013-05-05 18:13				
7,025.1	15,149.0-15,150.0ftKB on 5/5/2013 18:13 (Perforated); 15149-15150; 2013-05-05 18:13				
	15,388.0-15,389.0ftKB on 5/5/2013 18:13 (Perforated); 15388-15389; 2013-05-05 18:13				
7,027.9	15,627.0-15,628.0ftKB on 5/5/2013 18:13 (Perforated); 15627-15628; 2013-05-05 18:13				
	15,902.0-15,903.0ftKB on 5/5/2013 18:13 (Perforated); 15902-15903; 2013-05-05 18:13				
12,013.9	16,135.0-16,136.0ftKB on 5/5/2013 18:13 (Perforated); 16135-16136; 2013-05-05 18:13				
	16,369.0-16,370.0ftKB on 5/5/2013 18:13 (Perforated); 16369-16370; 2013-05-05 18:13				
17,000.0	Production Casing, Actual, 16990ftKB; 6874.1-16990; 10,115.94				
17,425.0					



# PA Wellbore For State - Horizontal, Vertical Section

Well Name: LUCI STATE B03-69HNL

Original Hole [Land]		Perforations			
MD (ftKB)	Vertical schematic (actual)	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 14,448.0	Bottom Depth (ftKB) 14,449.0
-114.1	 <p>Conductor Cement, Casing, 1/5/2013 15:30; 24-124; 2013-01-05 15:30; ALL ADDITIVES PUMPED Conductor, Actual, 124ftKB; 24-124; 100.00 Surface Casing Cement, Casing, 2/28/2013 13:15; 24-633.3; 2013-02-28 13:15 Surface, Actual, 633.3ftKB; 24-633.3; 609.32 Intermediate Casing Cement, Casing, 3/3/2013 14:12 (Intermediate 1 Casing Cement); 1110-7022.4; 2013-03-03 14:12 Intermediate Casing 1, Actual, 7022.4ftKB; 24-7022.4; 6,998.37 7,841.0-7,842.0ftKB on 5/5/2013 18:13 (Perforated); 7841-7842; 2013-05-05 18:13 8,079.0-8,080.0ftKB on 5/5/2013 18:13 (Perforated); 8079-8080; 2013-05-05 18:13 8,358.0-8,359.0ftKB on 5/5/2013 18:13 (Perforated); 8358-8359; 2013-05-05 18:13 8,675.0-8,676.0ftKB on 5/5/2013 18:13 (Perforated); 8675-8676; 2013-05-05 18:13 8,911.0-8,912.0ftKB on 5/5/2013 18:13 (Perforated); 8911-8912; 2013-05-05 18:13 9,183.0-9,184.0ftKB on 5/5/2013 18:13 (Perforated); 9183-9184; 2013-05-05 18:13 9,420.0-9,421.0ftKB on 5/5/2013 18:13 (Perforated); 9420-9421; 2013-05-05 18:13 9,659.0-9,659.0ftKB on 5/5/2013 18:13 (Perforated); 9659-9659; 2013-05-05 18:13 9,891.0-9,892.0ftKB on 5/5/2013 18:13 (Perforated); 9891-9892; 2013-05-05 18:13 10,126.0-10,127.0ftKB on 5/5/2013 18:13 (Perforated); 10126-10127; 2013-05-05 18:13 10,365.0-10,366.0ftKB on 5/5/2013 18:13 (Perforated); 10365-10366; 2013-05-05 18:13 10,604.0-10,605.0ftKB on 5/5/2013 18:13 (Perforated); 10604-10605; 2013-05-05 18:13 10,839.0-10,840.0ftKB on 5/5/2013 18:13 (Perforated); 10839-10840; 2013-05-05 18:13 11,079.0-11,080.0ftKB on 5/5/2013 18:13 (Perforated); 11079-11080; 2013-05-05 18:13 11,318.0-11,319.0ftKB on 5/5/2013 18:13 (Perforated); 11318-11319; 2013-05-05 18:13 11,552.0-11,553.0ftKB on 5/5/2013 18:13 (Perforated); 11552-11553; 2013-05-05 18:13 11,820.0-11,821.0ftKB on 5/5/2013 18:13 (Perforated); 11820-11821; 2013-05-05 18:13 12,052.0-12,053.0ftKB on 5/5/2013 18:13 (Perforated); 12052-12053; 2013-05-05 18:13 12,285.0-12,286.0ftKB on 5/5/2013 18:13 (Perforated); 12285-12286; 2013-05-05 18:13 12,758.0-11,926.0ftKB on 5/5/2013 18:13 (Perforated); 12758-11926; 2013-05-05 18:13 12,521.0-12,522.0ftKB on 5/5/2013 18:13 (Perforated); 12521-12522; 2013-05-05 18:13 12,758.0-12,759.0ftKB on 5/5/2013 18:13 (Perforated); 12758-12759; 2013-05-05 18:13 12,991.0-12,992.0ftKB on 5/5/2013 18:13 (Perforated); 12991-12992; 2013-05-05 18:13 13,228.0-13,229.0ftKB on 5/5/2013 18:13 (Perforated); 13228-13229; 2013-05-05 18:13 13,462.0-13,463.0ftKB on 5/5/2013 18:13 (Perforated); 13462-13463; 2013-05-05 18:13 13,703.0-13,704.0ftKB on 5/5/2013 18:13 (Perforated); 13703-13704; 2013-05-05 18:13 13,979.0-13,980.0ftKB on 5/5/2013 18:13 (Perforated); 13979-13980; 2013-05-05 18:13 14,215.0-14,216.0ftKB on 5/5/2013 18:13 (Perforated); 14215-14216; 2013-05-05 18:13 14,448.0-14,449.0ftKB on 5/5/2013 18:13 (Perforated); 14448-14449; 2013-05-05 18:13 14,677.0-14,678.0ftKB on 5/5/2013 18:13 (Perforated); 14677-14678; 2013-05-05 18:13 14,914.0-14,915.0ftKB on 5/5/2013 18:13 (Perforated); 14914-14915; 2013-05-05 18:13 15,149.0-15,150.0ftKB on 5/5/2013 18:13 (Perforated); 15149-15150; 2013-05-05 18:13 15,388.0-15,389.0ftKB on 5/5/2013 18:13 (Perforated); 15388-15389; 2013-05-05 18:13 15,627.0-15,628.0ftKB on 5/5/2013 18:13 (Perforated); 15627-15628; 2013-05-05 18:13 15,902.0-15,903.0ftKB on 5/5/2013 18:13 (Perforated); 15902-15903; 2013-05-05 18:13 16,135.0-16,136.0ftKB on 5/5/2013 18:13 (Perforated); 16135-16136; 2013-05-05 18:13 16,369.0-16,370.0ftKB on 5/5/2013 18:13 (Perforated); 16369-16370; 2013-05-05 18:13 Production Casing, Actual, 16990ftKB; 6874.1-16990; 10,115.94</p>	Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 14,677.0	Bottom Depth (ftKB) 14,678.0
24.0		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 14,914.0	Bottom Depth (ftKB) 14,915.0
74.0		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 15,149.0	Bottom Depth (ftKB) 15,150.0
124.0		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 15,388.0	Bottom Depth (ftKB) 15,389.0
378.6		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 15,627.0	Bottom Depth (ftKB) 15,628.0
633.2		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 15,902.0	Bottom Depth (ftKB) 15,903.0
638.1		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 16,135.0	Bottom Depth (ftKB) 16,136.0
643.0		Linked Zone NIOBRARA, Original Hole	Date 5/5/2013 18:13	Top Depth (ftKB) 16,369.0	Bottom Depth (ftKB) 16,370.0
738.0		Other In Hole			
833.0		Run Date	Des	Make	OD (in)
833.0					Top (ftKB)
833.0					Btm (ftKB)
971.5		Logs			
1,109.9		Date	Type	Depth Top (MD) (ftKB)	Btm (ftKB)
1,109.9		3/1/2013	MUD LOG - VERT.	2,000	5,891.0
1,109.9		3/9/2013	MUD LOG - HZ	7,022	17,000.0
1,109.9		3/9/2013	MWD GAMMA	633	17,000.0
1,109.9		4/3/2013	CBL/CCL/GR	24	6,910.0
1,642.4		Wellbore Plug Back Total Depths			
2,174.9		Date	Type	Com	PBTD (ftKB)
2,174.9		3/13/2013	FLOAT COLLAR	FLOAT COLLAR	16,981
2,225.9					
2,276.9					
4,359.4					
6,441.9					
6,492.9					
6,544.0					
6,783.1					
7,022.3					
7,025.1					
7,027.9					
12,013.9					
17,000.0					
17,425.0					