



Rockies Current Wellbore - Regulatory

Well Name: ROOT TRUST 18-09G

Original Hole [Land]		Well Header	
MD (ftKB)	Vertical schematic (actual)	Surface UWI	0512314895
		Business Unit	Rockies
		Gov Auth Dist	Prod Tree Loc
		Land	Land
		Orig. KB to Gnd (ft)	11.00
		Original Spud Date	2/22/1991
		Abandon Date	
		Well Sub-Status	SI
		High...	N
		Comment	
		Geologic Horizons	
11.2	Casing Joints, 8 5/8in; 11-505.6; 494.60; 1-1; 8 5/8; 8.097	Formation Name	Final Top MD (ftKB)
318.2		FOX HILLS BASE EST	377.0
377.0		Formation Name	Final Top MD (ftKB)
463.3	Float Shoe, 8 5/8in; 505.6-507; 1.40; 1-2; 8 5/8	NIO B MARL	6,972.4
505.6		Formation Name	Final Top MD (ftKB)
506.9		NIO C MARL	7,052.0
1,392.7	2 3/8in, Tubing; 11-7144.3; 7,133.35; 1-1; 2 3/8; 1.995	Formation Name	Final Top MD (ftKB)
2,334.0		UPPER PIERRE AQUIFER-TOP PROD	463.1
2,862.5	Casing Joints, 4 1/2in; 11-7297.6; 7,286.60; 2-1; 4 1/2; 4.000	Formation Name	Final Top MD (ftKB)
4,137.1		NIO C CHALK	7,022.9
4,145.0		Formation Name	Final Top MD (ftKB)
4,449.5		NIO D CHALK	7,094.8
4,834.3		Formation Name	Final Top MD (ftKB)
5,000.0		UPPER PIERRE AQUIFER-BASE PROD	1,392.6
5,850.1		Formation Name	Final Top MD (ftKB)
6,213.9		NIO FT HAYS	7,128.2
6,820.2		Formation Name	Final Top MD (ftKB)
6,820.9		NIO A MARL	6,871.8
6,842.8		Formation Name	Final Top MD (ftKB)
6,843.8		NIO B CHALK	6,945.2
6,851.0		Formation Name	Final Top MD (ftKB)
6,853.7		SHARON SPRING MKR	6,820.8
6,854.0		Formation Name	Final Top MD (ftKB)
6,855.0		SUSSEX-BASE PROD	4,449.5
6,871.7		Formation Name	Final Top MD (ftKB)
6,945.2		SHANNON-TOP PROD	4,834.4
6,945.9		Formation Name	Final Top MD (ftKB)
6,952.1		NIO A CHALK	6,853.7
6,972.1		Formation Name	Final Top MD (ftKB)
6,972.4		CARLILE	7,170.2
7,023.0		Formation Name	Final Top MD (ftKB)
7,044.0		A SAND-TOP PROD	2,334.0
7,051.8		Formation Name	Final Top MD (ftKB)
7,094.8		INTRA SHARON SPGS MK	6,820.3
7,128.3		Formation Name	Final Top MD (ftKB)
7,144.4		SUSSEX-TOP PROD	4,145.2
7,145.3		Formation Name	Final Top MD (ftKB)
7,146.0		NIOBRARA-TOP PROD	6,843.7
7,152.9		Formation Name	Final Top MD (ftKB)
7,153.9		A SAND-BASE PROD	2,862.5
7,164.0		Formation Name	Final Top MD (ftKB)
7,169.0		SHANNON-BASE PROD	5,000.2
7,170.3		Formation Name	Final Top MD (ftKB)
7,233.9		FOXHILLS-BASE PROD	318.2
7,297.6		Formation Name	Final Top MD (ftKB)
7,298.9		NIOBRARA A	6,851.0
7,311.0		Formation Name	Final Top MD (ftKB)
7,600.1		NIOBRARA B	6,946.0
		Formation Name	Final Top MD (ftKB)
		CODELL	7,153.0
		Formation Name	Final Top MD (ftKB)
		NIOBRARA	6,843.0
		Formation Name	Final Top MD (ftKB)
		MOWRY	7,600.0
		Formation Name	Final Top MD (ftKB)
		Congressional Location	
		Quarter 3	Quarter 4
		Section	18
		Township	4
		Twnshp N/...	N
		Range	65
		Rng E/W Dir	W
		Latitude (°)	40.310583239
		Longitude (°)	-104.698729574
		Wellbore Sections	
		Section Des	Hole Size (in)
		Top Depth (ftKB)	Btm Depth (ftKB)
		SURFACE	12 1/4
		PRODUCTION	7 7/8
		Top Depth (ftKB)	507.0
		Btm Depth (ftKB)	7,311.0
		Casing Strings	
		Csg Des	Run Date
		OD (in)	Wt/Len (lb/ft)
		Grade	Top Depth (MD) (ftKB)
		Set Depth (MD) (ftKB)	
		Surface	2/23/1991
		Production Casing	2/28/1991
		OD (in)	8 5/8
		Wt/Len (lb/ft)	23.00
		Grade	M-75
		Top Depth (MD) (ftKB)	11
		Set Depth (MD) (ftKB)	507
		OD (in)	4 1/2
		Wt/Len (lb/ft)	11.60
		Grade	M-75
		Top Depth (MD) (ftKB)	11
		Set Depth (MD) (ftKB)	7299



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Original Hole [Land]		Cement					
MD (ftKB)	Vertical schematic (actual)	Des	Start Date	Top (ftKB)	Btm (ftKB)		
		SURFACE CASING CEMENT	2/23/1991	11.0	507.0		
		PRODUCTION CASING CEMENT	2/28/1991	4,137.0	5,850.0		
		PRODUCTION CASING CEMENT	2/28/1991	6,214.0	7,299.0		
		Stim/Frac Summary					
		Min Top Depth (ftKB)	Max Btm Depth (ftKB)				
		6,855.0	7,169.0				
		Min Top Depth (ftKB)	Max Btm Depth (ftKB)				
		7,154.0	7,169.0				
		Min Top Depth (ftKB)	Max Btm Depth (ftKB)				
		6,854.0	6,972.0				
		Perforations					
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		NIOBRARA, Original Hole	10/20/2005 00:00	6,854.0	6,972.0		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		NIOBRARA, Original Hole	3/10/1991 00:00	6,855.0	7,044.0		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		CODELL, Original Hole	3/1/1991 00:00	7,154.0	7,164.0		
		Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)		
		CODELL, Original Hole	3/1/2001 00:00	7,154.0	7,169.0		
		Other In Hole					
		Run Date	Des	Make	OD (in)	Top (ftKB)	Btm (ftKB)
		Logs					
		Date	Type	Depth Top (MD) (ftKB)	Btm (ftKB)		
		2/28/1991	COMPENSATED DENSITY	3,600	7,294.0		
		2/28/1991	INDUCTION	507	7,311.0		
		3/4/1991	CEMENT BOND	4,000	8,330.0		
		Wellbore Plug Back Total Depths					
		Date	Type	Com	PBTD (ftKB)		
		2/28/1991	GUIDE SHOE		7,234		
11.2		Casing Joints, 8 5/8in;					
318.2	FOXHILLS-BASE...	11-505.6; 494.60; 1-1;					
377.0	FOX HILLS BASE...	8 5/8; 8.097					
463.3	UPPER PIERRE A...	Float Shoe, 8 5/8in;					
505.6		505.6-507; 1.40; 1-2; 8					
506.9		5/8					
1,392.7	UPPER PIERRE A...	2 3/8in, Tubing; 11-					
2,334.0	A SAND-TOP PR...	7144.3; 7,133.35; 1-1; 2					
2,862.5	A SAND-BASE P...	3/8; 1.995					
4,137.1		Casing Joints, 4 1/2in;					
4,145.0	SUSSEX-TOP PR...	11-7297.6; 7,286.60; 2-					
4,449.5	SUSSEX-BASE PR...	1; 4 1/2; 4.000					
4,834.3	SHANNON-TOP...						
5,000.0	SHANNON-BAS...						
5,850.1							
6,213.9							
6,820.2	INTRA SHARON...						
6,820.9	SHARON SPRIN...						
6,842.8	NIOBRARA (final)						
6,843.8	NIOBRARA-TOP...						
6,851.0	NIOBRARA A (fin...						
6,853.7	NIO A CHALK (fi...						
6,854.0	NIOBRARA A (dri...	6,854.0-6,972.0ftKB on					
6,855.0		10/20/2005 00:00					
6,871.7	NIO A MARL (fin...	(Perforated); 6854-					
6,945.2	NIO B CHALK (fi...	6972; 2005-10-20					
6,945.9	NIOBRARA B (fin...	6,855.0-7,044.0ftKB on					
6,952.1	NIOBRARA B (drill)	3/10/1991 00:00					
6,972.1		(Perforated); 6855-					
6,972.4	NIO B MARL (fin...	7044; 1991-03-10					
7,023.0	NIO C CHALK (fi...	2 3/8in, Pump Seating					
7,044.0		Nipple; 7144.3-7145.2;					
7,051.8	NIO C MARL (fin...	0.83; 1-2; 2 3/8					
7,094.8	NIO D CHALK (fi...	2 3/8in, Notched					
7,128.3	NIO FT HAYS (fin...	collar; 7145.2-7146;					
7,144.4		0.82; 1-3; 2 3/8					
7,145.3		7,154.0-7,164.0ftKB on					
7,146.0		3/4/1991 00:00					
7,152.9	CODELL (final)	(Perforated); 7154-					
7,153.9		7164; 1991-03-04					
7,164.0		7,154.0-7,169.0ftKB on					
7,169.0		3/1/2001 00:00					
7,170.3	CARLILE (final)	(Perforated); 7154-					
7,233.9		7169; 2001-03-01					
7,297.6		Float Shoe, 4 1/2in;					
7,298.9		7297.6-7299; 1.40; 2-2;					
7,311.0		4 1/2					
7,600.1	MOWRY (final)						