



P&A Wellbore For State

Well Name: LIGGETT 18-04

Original Hole [Land]		Well Header							
MD (ftK B)	Vertical schematic (actual)	Surface UWI 0512317644		Business Unit Rockies		Gov Auth Dist		Prod Tree Loc Land	
		Orig. KB to Gnd (ft) 11.00		Original Spud Date 12/1/1993		Abandon Date		Well Sub-Status SI	
		Comment DISCREP- ORIG FRAC RPT NOT IN FILE; USED SCHEMATIC; DRIL RPT TD DATE 12/6/1993, ST RPT TD DATE 12/7/1993; DRIL RPT TD 6896, ST RPT TD 6890							
		NO CBL (CCL ONLY), TOC IS CALCULATED							
		WELLHEAD IS 3000#							
		Surface Location (Congressional)							
		Qtr 3 NW	Qtr 4 NW	Section 18	Twنش... 4	Range 63	Rng E/... W	Latitude (°) 40.31826088 9	Longitude (°) -104.488239848
		Wellbore Sections							
		Section Des		Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)	
		SURFACE		12 1/4		11.0		480.0	
		PRODUCTION		7 7/8		480.0		6,896.0	
		Casing Strings							
		Csg Des		Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (MD) (ftKB)	Set Depth (MD) (ftKB)
		Surface		12/2/1993	8 5/8	23.00	M-50	11	465
		Production Casing		12/7/1993	3 1/2	7.70	M-75	11	6885.9
		Cement							
		Des		Start Date	Top (ftKB)		Btm (ftKB)		
		Surface Casing Cement		12/2/1993	11.0		465.0		
		Production Casing Cement		12/7/1993	5,900.0		6,885.9		
		Zone Statuses							
		Zone Name	Status Date	Status	Fluid Type	Job		Prod Method	
		CODELL	2/13/2006	PR		COMMINGLE ZONES, 2/9/2006 00:00			
		CODELL	1/1/2017	SI		COMMINGLE ZONES, 2/9/2006 00:00			
		NIOBRARA	2/13/2006	PR		COMMINGLE ZONES, 2/9/2006 00:00			
		NIOBRARA	1/1/2017	SI		COMMINGLE ZONES, 2/9/2006 00:00			
		Perforation Data							
		Linked Zone		Explosive Type	Entered Shot Total	Top (ftKB)		Btm (ftKB)	
		NIOBRARA, Original Hole		A	84	6,420.0		6,434.0	
		NIOBRARA, Original Hole			2	6,429.0		6,431.0	
		NIOBRARA, Original Hole		B	108	6,498.0		6,516.0	
		NIOBRARA, Original Hole			4	6,508.0		6,512.0	
		CODELL, Original Hole			48	6,692.0		6,704.0	
		CODELL, Original Hole			9	6,692.0		6,701.0	
		Stim/Frac Stage							
		Zone		Start Date	Top (ftKB)		Btm (ftKB)		
		NIOBRARA, Original Hole		1/24/2006	6,420.0		6,516.0		
		NIOBRARA-CODELL, Original Hole		12/13/1993	6,429.0		6,701.0		
		CODELL, Original Hole		1/22/2004	6,692.0		6,704.0		
		Other In Hole							
		Run Date	Des		Make	OD (in)	Top (ftKB)	Btm (ftKB)	
		Logs							
		Date	Type			Depth Top (MD) (ftKB)		Btm (ftKB)	
		12/6/1993	COMPENSATED DENSITY			4,160		6,894.0	
		12/6/1993	INDUCTION			465		6,894.0	
		12/10/1993	GAMMA RAY			6,250		6,823.0	
		Wellbore Plug Back Total Depths							
		Date	Type		Com			PBTD (ftKB)	
		1/19/2004	FILL		CLEAN OUT			6,832	
		2/11/2006	FILL		CLEAN OUT			6,771	