

Downhole Schematic for DW 8603F-33 P28 496



Project :North Piceance

API # :05045204350000

Surface Location : SESE Sec 28 T4S - R96W 6th PM

Area : Double Willow

County :

BHL : NENW-33-4S-96 W 6th PM

As Of :

GL : 7791.0 ft

KB to GL : 22.0 ft

KB : 7813.0 ft

Set @ 118	-500 ft	Casing Details		Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
		Section	Conductor	30.000	20	0	118	120			Line Pipe
	-1000 ft	Surface		14.750	9.625	0	2,097	2	LT&C		Float Shoe
					9.625	36	2,096	42	LT&C	K-55	Casing
	-1500 ft				9.625	0	2,053	2	LT&C		Float Collar
					9.625	36	2,052	129	LT&C	K-55	Casing
	-2000 ft				9.625	0	1,923	2	LT&C	K-55	Parasite sub
					9.625	36	1,921	1,336	LT&C	K-55	Casing
	-2500 ft				9.625	0	585	2	LT&C		Port Collar
					9.625	36	583	553	LT&C	K-55	Casing
Set @ 2097	-3000 ft				9.625	36	30	6	LT&C	K-55	Mandrel
					9.625	36	24	30	LT&C	K-55	Landing Jt.
	-3500 ft	Production		8.875	5.5	11.6	11,643	2	Butt	P-110	Guide Shoe
					4.5	11.6	11,642	22	Butt	P-110	Casing Jt.
	-4000 ft				5.5	11.6	11,620	2	Butt	P-110	Float Collar
					4.5	11.6	11,618	1,452	Butt	P-110	Casing Jts.
	-4500 ft				4.5	11.6	10,167	22	Butt	P-110	Marker Jt
					4.5	11.6	10,145	2,621	Butt	P-110	Casing Jts
	-5000 ft				4.5	11.6	7,523	22	Butt	P-110	Marker Jt
					4.5	11.6	7,501	7,504	Butt	P-110	Casing Jts
TOC @ 4898	-5500 ft	Cement Details									
		Section	Sequence			Top	Density	Blend / Additives			
	-6000 ft	Production	Lead			4,898	10.5	TXI Lead / 75 lb/sk			
								D049+12%D020+1%D079+1%D112+1.2%D013+.250lb/skD029+.500			
	-6500 ft							%D046+.600%D182			
			Lead			6,490	12.0	TXI LS Lead /			
	-7000 ft							.500%D046+1.0%D013+1.0%D079+75.0lb/skD049+.250lb/skD029+.1			
								00%D112			
			Tail			9,071	13.0	Rockies Correct GMS Enc /			
								80lb/skD901+11.0lb/skD035+3.0%D020+.200%D046+.200%D065+.7			
Stage 12		Surface	Fill			0	11.0	11# LiteFIL / D049 @ 87#/sk, D124 @ 11#/sk, D053 @ 6%, D079 @			
								2%, D046 @ .2%, D029 @ .250 #/sk			
			Tail			2,058	12.5	12.5# LiteFIL / D049 @ 87 #/sk, D124 @ 11#/sk, D053 @ 6%, D046			
								@ .2%, D029 @ .25 #/sk			
	-7500 ft	Conductor	Lead			0	13.5	Control set C / 1/4lb/sk polliflake			
		Perforations									
		Stage 1						Stage 4			
		Date	From	To	Shots		Date	From	To	Shots	
		07/21/2012	11,305	11,306	3		07/25/2012	10,381	10,382	3	
Stage 11			11,253	11,254	3			10,318	10,319	3	
			11,243	11,244	3			10,286	10,287	3	
			11,213	11,214	3			10,275	10,276	3	
			11,203	11,204	3			10,233	10,234	3	
	-8000 ft		11,184	11,185	3			10,223	10,224	3	
			11,174	11,175	3			10,178	10,179	3	
			11,110	11,111	3			10,149	10,150	3	
			11,088	11,089	3			10,134	10,135	3	
			11,065	11,066	3			10,107	10,108	3	
		Stage 10					Stage 5				
Stage 10		Date	From	To	Shots		Date	From	To	Shots	
		07/30/2012	8,583	8,584	3		07/26/2012	10,086	10,087	3	
			8,567	8,568	3			10,022	10,023	3	
	-8500 ft		8,516	8,517	3			10,003	10,004	3	
			8,495	8,496	3			9,994	9,995	3	
			8,478	8,479	3			9,948	9,949	3	
			8,399	8,400	3			9,882	9,883	3	
			8,388	8,389	3			9,864	9,865	3	
			8,343	8,344	3			9,850	9,851	3	
			8,321	8,322	3			9,805	9,806	3	
Stage 9			8,302	8,303	3			9,792	9,793	3	
		Stage 11					Stage 6				
		Date	From	To	Shots		Date	From	To	Shots	
		07/31/2012	8,271	8,272	3		07/27/2012	9,764	9,765	3	
			8,250	8,251	3			9,756	9,757	3	
			8,227	8,228	3			9,693	9,694	3	
			8,211	8,212	3			9,688	9,689	3	
			8,194	8,195	3			9,642	9,643	3	
			8,167	8,168	3			9,629	9,630	3	
			8,117	8,118	3			9,597	9,598	3	
Stage 8			8,089	8,090	3			9,581	9,582	3	
			8,070	8,071	3			9,530	9,531	3	
	-9500 ft		8,051	8,052	3			9,512	9,513	3	
		Stage 12					Stage 7				
		Date	From	To	Shots		Date	From	To	Shots	
		07/31/2012	8,032	8,033	3		07/28/2012	9,495	9,496	3	
			8,021	8,022	3			9,474	9,475	3	
			7,995	7,996	3			9,451	9,452	3	
			7,982	7,983	3			9,440	9,441	3	
			7,952	7,953	3			9,398	9,399	3	
Stage 7			7,918	7,919	3			9,390	9,391	3	
			7,898	7,899	3			9,350	9,351	3	
	-10000 ft		7,859	7,860	3			9,320	9,321	3	
			7,839	7,840	3			9,254	9,255	3	
			7,829	7,830	3			9,221	9,222	3	
		Stage 2					Stage 8				
		Date	From	To	Shots		Date	From	To	Shots	
		07/23/2012	11,024	11,025	3		07/29/2012	9,196	9,197	3	
			11,013	11,014	3			9,183	9,184	3	
			10,978	10,979	3			9,142	9,143	3	
Stage 6			10,965	10,966	3			9,047	9,048	3	
			10,949	10,950	3			9,035	9,036	3	
			10,909	10,910	3			9,011	9,012	3	
			10,863	10,864	3			9,000	9,001	3	
			10,848	10,849	3			8,992	8,993	3	
			10,727	10,728	3			8,980	8,981	3	
			10,717	10,718	3			8,951	8,952	3	
		Stage 3					Stage 9				
		Date	From	To	Shots		Date	From	To	Shots	
		07/25/2012	10,679	10,680	3		07/29/2012	9,717	9,718	3	
Stage 5			10,670	10,671	3			8,909	8,910	3	
			10,648	10,649	3			8,880	8,881	3	
			10,629	10,630	3			8,862	8,863	3	
			10,582	10,583	3			8,843	8,844	3	
			10,572	10,573	3			8,812	8,813	3	
			10,537	10,538	3			8,796	8,797	3	
			10,486	10,487	3			8,787	8,788	3	
			10,451	10,452	3			8,726	8,727	3	
			10,411	10,412	3			8,662	8,663	3	
	-11500 ft										

Set @ 11643

PBTD @ 11618  
TD @ 11673

Frac Summary  
Stage 1 : 11,065 - 11,306, 30 - 0.420" shots, 14218 bbls of Slickwater Report Date: 07/23/2012  
Stage 2 : 10,717 - 11,025, 30 - 0.420" shots, 13527 bbls of Slickwater Report Date: 07/24/2012  
Stage 3 : 10,411 - 10,680, 30 - 0.420" shots, 12073 bbls of Slickwater Report Date: 07/25/2012  
Stage 4 : 10,107 - 10,382, 30 - 0.420" shots, 12503 bbls of Slickwater Report Date: 07/26/2012  
Stage 5 : 9,792 - 10,087, 30 - 0.420" shots, 13798 bbls of Slickwater Report Date: 07/27/2012  
Stage 6 : 9,512 - 9,765, 30 - 0.420" shots, 17217 bbls of Slickwater Report Date: 07/28/2012  
Stage 7 : 9,221 - 9,496, 30 - 0.420" shots, 15495 bbls of Slickwater Report Date: 07/30/2012  
Stage 8 : 8,951 - 9,197, 30 - 0.420" shots, 13352 bbls of Slickwater Report Date: 07/29/2012  
Stage 9 : 8,662 - 8,918, 30 - 0.420" shots, 24486 bbls of Slickwater Report Date: 07/31/2012  
Stage 10 : 8,302 - 8,584, 30 - 0.420" shots, 23347 bbls of Slickwater Report Date: 07/30/2012  
Stage 11 : 8,051 - 8,272, 30 - 0.420" shots, 24486 bbls of Slickwater Report Date: 07/31/2012  
Stage 12 : 7,829 - 8,033, 30 - 0.420" shots, 14053 bbls of Slickwater Report Date: 08/01/2012

Comments  
Total Fluid Prod