

Set @ 180	-500 ft	Casing Details		Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
		Section	Conductor	26.000	16	0	180	180			Line Pipe
		Surface		12.250		0	1,732	2	LT&C	J-55	Shoe
	-1000 ft				9.625	36	1,731	43	LT&C	J-55	Casing
						0	1,688	2	LT&C	J-55	Float Collar
					9.625	36	1,686	1,659	LT&C	J-55	Casing
	-1500 ft				9.625	36	27	5	LT&C	J-55	Mandrel
					9.625	36	22	27	LT&C	J-55	Landing Jnt.
	-2000 ft	Production		8.750	5	0	9,792	2	Butt	M-80	Shoe
					4.5	11.6	9,791	23	Butt	M-80	Shoe Jnt
Set @ 1732	-2500 ft				5	0	9,768	2	Butt	M-80	Float Collar
					4.5	11.6	9,766	1,421	Butt	M-80	Casing
					4.5	11.6	8,345	23	Butt	M-80	Casing Maker
	-3000 ft				4.5	11.6	8,323	2,264	Butt	M-80	Casing
					4.5	11.6	6,059	23	Butt	M-80	Casing Maker
					4.5	11.6	6,036	4,575	Butt	M-80	Casing
	-3500 ft				4.5	11.6	1,462	1,465	Butt	M-80	Casing
	-4000 ft	Cement Details									
		Section	Sequence		Top	Density	Blend / Additives				
		Surface	Lead		0	12.5	Class G / +2%D079+0.2%D046+0.25lb/sk D029				
-4500 ft		Tail		1,200	14.0	Class G / +1.0%D079+0.2%D046+0.250lb/sk D029					
	Production	Scavenger		0	11.5	MUDPUSH II / 30 bbl 100# D182+6600#D031					
		Lead		1,400	12.5	12.5ppg NPR (Poz A) / 5.0% D044+0.2% D046+ 0.5% D182 + 0.25 PPS D029 +2.0% D079+ 1.2% D013					
-5000 ft		Tail		5,012	13.0	13.0 PPG Poz "G" - Rockies Correct / 5.0% D044 + 35.0% D178+ 3.0% D020 + 0.50% D182 + 0.750% D112 +0.4% D201% +0.2% D065+ 0.2% D046 + 0.25 lb/sx D029 + 11.0 lb/sx D035					
-5500 ft	Conductor	Lead		0	13.0	Control set c / .25lb/sk PF					
	Tubing and Downhole Equipment										
	O.D.	Length	Depth	Description							
	4.500	24.00	9,840.00	TOF 9817'. See comments							
	Perforations										
	Stage 1	Date	From	To	Shots	Stage 4	Date	From	To	Shots	
Stage 12		11/29/2011	9,603	9,604	3		12/02/2011	8,694	8,695	3	
			9,554	9,555	3			8,686	8,687	3	
			9,522	9,523	3			8,650	8,651	3	
			9,477	9,478	3			8,626	8,627	3	
			9,462	9,463	3			8,616	8,617	3	
			9,425	9,426	3			8,600	8,601	3	
			9,403	9,404	3			8,584	8,585	3	
			9,389	9,390	3			8,568	8,569	3	
			9,366	9,367	3			8,517	8,518	3	
			9,328	9,329	3			8,482	8,483	3	
Stage 11	-6500 ft	Stage 10	Date	From	To	Shots	Stage 5	Date	From	To	Shots
			12/08/2011	6,925	6,926	3		12/05/2011	8,419	8,420	3
				6,896	6,897	3			8,405	8,406	3
				6,850	6,851	3			8,388	8,389	3
				6,826	6,827	3			8,369	8,370	3
				6,816	6,817	3			8,350	8,351	3
				6,774	6,775	3			8,328	8,329	3
				6,718	6,719	3			8,284	8,285	3
				6,700	6,701	3			8,254	8,255	3
				6,678	6,679	3			8,213	8,214	3
Stage 9	-7000 ft			6,658	6,659	3			8,174	8,175	3
		Stage 11	Date	From	To	Shots	Stage 6	Date	From	To	Shots
			12/08/2011	6,636	6,637	3		12/05/2011	8,141	8,142	3
				6,618	6,619	3			8,126	8,127	3
				6,599	6,600	3			8,109	8,110	3
				6,578	6,579	3			8,091	8,092	3
				6,558	6,559	3			8,063	8,064	3
				6,508	6,509	3			8,027	8,028	3
				6,478	6,479	3			7,990	7,991	3
				6,444	6,445	3			7,970	7,971	3
Stage 7	-7500 ft			6,416	6,417	3			7,954	7,955	3
				6,394	6,395	3			7,935	7,936	3
		Stage 12	Date	From	To	Shots	Stage 7	Date	From	To	Shots
			12/09/2011	6,359	6,360	3		12/06/2011	7,867	7,868	3
				6,349	6,350	3			7,854	7,855	3
				6,312	6,313	3			7,842	7,843	3
				6,296	6,297	3			7,804	7,805	3
				6,282	6,283	3			7,792	7,793	3
				6,233	6,234	3			7,764	7,765	3
				6,220	6,221	3			7,747	7,748	3
Stage 6	-8000 ft			6,198	6,199	3			7,726	7,727	3
				6,168	6,169	3			7,693	7,694	3
				6,147	6,148	3			7,658	7,659	3
		Stage 2	Date	From	To	Shots	Stage 8	Date	From	To	Shots
			12/01/2011	9,305	9,306	3		12/07/2011	7,556	7,557	3
				9,292	9,293	3			7,542	7,543	3
				9,278	9,279	3			7,514	7,515	3
				9,270	9,271	3			7,490	7,491	3
				9,192	9,193	3			7,476	7,477	3
				9,168	9,169	3			7,462	7,463	3
Stage 5	-8500 ft			9,122	9,123	3			7,442	7,443	3
				9,076	9,077	3			7,373	7,374	3
				9,042	9,043	3			7,350	7,351	3
				9,018	9,019	3			7,330	7,331	3
		Stage 3	Date	From	To	Shots	Stage 9	Date	From	To	Shots
			12/02/2011	8,924	8,925	3		12/07/2011	7,266	7,267	3
				8,911	8,912	3			7,244	7,245	3
				8,892	8,893	3			7,219	7,220	3
				8,874	8,875	3			7,184	7,185	3
				8,853	8,854	3			7,151	7,152	3
Stage 4	-9000 ft			8,832	8,833	3			7,096	7,097	3
				8,819	8,820	3			7,050	7,051	3
				8,795	8,796	3			7,009	7,010	3
				8,782	8,783	3			6,996	6,997	3
				8,720	8,721	3			6,982	6,983	3
		Stage 3	Date	From	To	Shots					
			12/02/2011	8,924	8,925	3					
				8,911	8,912	3					
				8,892	8,893	3					
	Stage 3	-9500 ft			8,874	8,875	3				
				8,853	8,854	3					
				8,832	8,833	3					
				8,819	8,820	3					
				8,795	8,796	3					
				8,782	8,783	3					
				8,720	8,721	3					
		Stage 3	Date	From	To	Shots					
			12/02/2011	8,924	8,925	3					
				8,911	8,912	3					
Set @ 9792				8,892	8,893	3					
				8,874	8,875	3					
				8,853	8,854	3					
				8,832	8,833	3					
				8,819	8,820	3					
				8,795	8,796	3					
				8,782	8,783	3					
				8,720	8,721	3					
		Stage 3	Date	From	To	Shots					
			12/02/2011	8,924	8,925	3					
PBTB @ 9766 TD @ 9840				8,911	8,912	3					
				8,892	8,893	3					