

Set @ 120	-500 ft	Casing Details	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description			
		Conductor	26.000	16	0	120	120			Line Pipe 1/4 Wall			
	+1000 ft	Surface	12.250	9.625	0	1,823	2	LT&C	J-55	Shoe			
				9.625	36	1,822	44	LT&C	J-55	Casing			
				9.625	0	1,778	2	LT&C	J-55	Float Collar			
				9.625	36	1,776	1,748	LT&C	J-55	Casing			
	+1500 ft			9.625	36	29	5	LT&C	J-55	Well Head pup jt			
				9.625	36	24	27	Butt	J-55	Landing Jt			
	Set @ 1823	-2000 ft	Production	8.750	5	0	10,448	2	Butt		Shoe		
		4.5			11.6	10,447	22	Butt	S-80	Shoe Jt			
5		0			10,424	2	Butt		Float Collar				
4.5		11.6			10,423	1,483	Butt	S-80	Casing				
-3000 ft				4.5	11.6	8,940	22	Butt	S-80	Marker Jt			
				4.5	11.6	8,918	2,261	Butt	S-80	Casing			
-3500 ft				4.5	11.6	6,657	22	Butt	S-80	Marker Jt			
				4.5	11.6	6,635	6,639	Butt	S-80	Casing			
TOC @ 2838		-4000 ft	Cement Details	Sequence	Top	Density	Blend / Additives						
		-4500 ft	Conductor	Production	Tail	Scavenger	Lead	0	12.0	Class G Cement / Cello Flake 1/4lb/sk			
	0							11.5	MUDPUSH II / 30 bbl 100# D182+6600#D031				
							2,838	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								5,445	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	Surface	Lead	Tail	0	12.5	12.5 #-Class "G" / +2.0%D079+0.2%D046+0.25lb/skD029						
	-6000 ft				1,288	14.0	14.0# Class G / +1.0%D079+0.2%D046+0.25lb/sk D029						
	Stage 12	-6500 ft	Perforations	Stage 1			Stage 4B						
			Date	From	To	Shots	Date	From	To	Shots			
			03/13/2012	10,263	10,264	3	04/02/2012	9,217	9,218	3			
			10,250	10,251	3		9,189	9,190	3				
			10,240	10,241	3		9,149	9,150	3				
			10,217	10,218	3		9,134	9,135	3				
			10,206	10,207	3		9,120	9,121	3				
			10,156	10,157	3		9,095	9,096	3				
			10,145	10,146	3		9,040	9,041	3				
			10,106	10,107	3		9,003	9,004	3				
Stage 11	-7000 ft												
			10,013	10,014	3		8,990	8,991	3				
			9,966	9,967	3		8,976	8,977	3				
		Stage 10				Stage 5A							
		Date	From	To	Shots	Date	From	To	Shots				
		04/24/2012	7,528	7,529	3	04/06/2012	8,948	8,949	3				
			7,491	7,492	3		8,920	8,921	3				
			7,473	7,474	3		8,880	8,881	3				
			7,445	7,446	3		8,862	8,863	3				
			7,420	7,421	3		8,850	8,851	3				
Stage 10	-7500 ft												
			7,371	7,372	3		8,813	8,814	3				
			7,342	7,343	3		8,759	8,760	3				
			7,322	7,323	3		8,721	8,722	3				
			7,291	7,292	3		8,707	8,708	3				
			7,278	7,279	3		8,694	8,695	3				
		Stage 11				Stage 5B							
		Date	From	To	Shots	Date	From	To	Shots				
		04/26/2012	7,259	7,260	3	04/06/2012	8,948	8,949	3				
			7,240	7,241	3		8,920	8,921	3				
Stage 9	-8000 ft												
			7,226	7,227	3		8,880	8,881	3				
			7,208	7,209	3		8,862	8,863	3				
			7,193	7,194	3		8,850	8,851	3				
			7,175	7,176	3		8,813	8,814	3				
			7,144	7,145	3		8,759	8,760	3				
			7,130	7,131	3		8,721	8,722	3				
			7,098	7,099	3		8,707	8,708	3				
			7,082	7,083	3		8,694	8,695	3				
		Stage 12				Stage 6A							
Stage 8	-8500 ft	Date	From	To	Shots	Date	From	To	Shots				
		05/02/2012	7,041	7,042	3	04/09/2012	8,656	8,657	3				
			7,006	7,007	3		8,642	8,643	3				
			6,969	6,970	3		8,617	8,618	3				
			6,936	6,937	3		8,596	8,597	3				
			6,912	6,913	3		8,568	8,569	3				
			6,894	6,895	3		8,553	8,554	3				
			6,870	6,871	3		8,529	8,530	3				
			6,857	6,858	3		8,513	8,514	3				
			6,820	6,821	3		8,495	8,496	3				
Stage 7	-9000 ft		6,805	6,806	3		8,456	8,457	3				
		Stage 2				Stage 6B							
		Date	From	To	Shots	Date	From	To	Shots				
		03/23/2012	9,921	9,922	3	04/09/2012	8,656	8,657	3				
			9,904	9,905	3		8,642	8,643	3				
			9,843	9,844	3		8,617	8,618	3				
			9,832	9,833	3		8,596	8,597	3				
			9,807	9,808	3		8,568	8,569	3				
			9,764	9,765	3		8,553	8,554	3				
			9,752	9,753	3		8,529	8,530	3				
Stage 6A	-9500 ft												
			9,734	9,735	3		8,513	8,514	3				
			9,686	9,687	3		8,495	8,496	3				
			9,667	9,668	3		8,456	8,457	3				
		Stage 3A				Stage 7							
		Date	From	To	Shots	Date	From	To	Shots				
		03/28/2012	9,554	9,555	3	04/13/2012	8,348	8,349	3				
			9,537	9,538	3		8,308	8,309	3				
			9,516	9,517	3		8,293	8,294	3				
			9,484	9,485	3		8,262	8,263	3				
	9,441	9,442	3		8,248	8,249	3						
Stage 5A	-10000 ft												
			9,415	9,416	3		8,227	8,228	3				
			9,394	9,395	3		8,214	8,215	3				
			9,319	9,320	3		8,189	8,190	3				
			9,281	9,282	3		8,169	8,170	3				
			9,258	9,259	3		8,130	8,131	3				
		Stage 3B				Stage 8							
		Date	From	To	Shots	Date	From	To	Shots				
		03/28/2012	9,554	9,555	3	04/16/2012	8,112	8,113	3				
			9,537	9,538	3		8,099	8,100	3				
	9,516	9,517	3		8,085	8,086	3						
Stage 4A	-10500 ft												
			9,484	9,485	3		8,068	8,069	3				
			9,441	9,442	3		8,053	8,054	3				
			9,415	9,416	3		8,022	8,023	3				
			9,394	9,395	3		7,952	7,953	3				
			9,319	9,320	3		7,921	7,922	3				
			9,281	9,282	3		7,900	7,901	3				
			9,258	9,259	3		7,867	7,868	3				
		Stage 4B				Stage 9							
		Date	From	To	Shots	Date	From	To	Shots				
04/02/2012	9,217	9,218	3	04/23/2012	7,836	7,837	3						
Set @ 10448	PBTD @ 10423 TD @ 10480												
			9,189	9,190	3		7,820	7,821	3				
			9,149	9,150	3		7,793	7,794	3				
			9,134	9,135	3		7,765	7,766	3				
			9,120	9,121	3		7,744	7,745	3				
			9,095	9,096	3		7,720	7,721	3				
			9,040	9,041	3		7,668	7,669	3				
			9,003	9,004	3		7,625	7,626	3				
			8,990	8,991	3		7,593	7,594	3				
			8,976	8,977	3		7,581	7,582	3				

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