

Downhole Schematic for Story Gulch Unit 8502B-36 B36 496



Project :North Piceance		API # :05045190020000		Surface Location : Lot 2-36 T4S - R96W 6th PM								
Area : Story Gulch		County :		BHL : Lot 2-36-4S-96 W 6th PM								
As Of : 10/07/2010		GL : 8351.7 ft		KB to GL : 22.0 ft								
				KB : 8373.7 ft								
<div>Set @ 120</div> <div>TOC @ 1940</div> <div>Set @ 3089</div>	-500 ft	Casing Details	Hole 30.000	Casing 20"	Mass 52.78	Set At 120	Length 120	Thread	Grade A53B	Description 20" Line Pipe		
	-1000 ft	Surface	14.750	9.625	0	3,089	2	LT&C	K-55	Guide Shoe		
	-1500 ft			9.625	36	3,088	38	LT&C	K-55	Casing		
	-2000 ft			9.625	0	3,050	2	LT&C	K-55	Float Collar		
	-2500 ft			9.625	36	3,048	527	LT&C	K-55	Casing		
	-3000 ft			9.625	0	2,522	3	LT&C		Parasite Sub		
	-3500 ft			9.625	36	2,519	1,166	LT&C	K-55	Casing		
	-4000 ft			9.625	0	1,352	4	LT&C		Port Collar		
	-4500 ft			9.625	36	1,349	1,319	LT&C	K-55	Casing		
	-5000 ft			9.625	36	29	5	LT&C	J-55	Wood Group Head		
	-5500 ft			9.625	36	24	25	LT&C	J-55	Landing Joint		
	-6000 ft	Production	8.750	4.5	0	12,214	1	LT&C	800 ST	Texas Guide Shoe		
	-6500 ft			4.5	11.6	12,213	22	LT&C	P-110	Casing		
	-7000 ft			4.5	0	12,191	1	LT&C	P-110	Float Collar		
	-7500 ft			4.5	11.6	12,189	22	LT&C	P-110	Casing		
	-8000 ft			4.5	0	12,168	1	LT&C	P-110	Float Collar		
	-8500 ft			4.5	11.6	12,166	1,441	LT&C	P-110	Casing		
	-9000 ft			4.5	11.6	10,725	22	LT&C	P-110	Casing/Marker		
	-9500 ft			4.5	11.6	10,703	2,130	LT&C	P-110	Casing		
	-10000 ft			4.5	11.6	8,573	22	LT&C	P-110	Casing/Marker		
	-10500 ft			4.5	11.6	8,551	2,057	LT&C	P-110	Casing		
-11000 ft			4.5	0	6,494	2	LT&C	P-110	DV Collar			
-11500 ft			4.5	11.6	6,492	6,492	LT&C	P-100	Casing			
Stage 11	-7000 ft	Cement Details	Sequence	Top	Density	Blend / Additives						
	-7500 ft	Surface	Lead	0	9.0	Lite Crete / 0.8%D079+0.8%D065+0.4%D013+0.25ppsD029						
		Conductor	Tail	2,612	12.5	Poz A / LiteFill 6%D053+0.2%D046+0.25pps.D029						
		Production	Tail	0	13.0	Control Set C /						
			Lead	1,940	15.8	Rockies Correct /						
			Lead	6,259	9.0	Lite Crete Blend /						
			Tail	6,486	11.0	Extended /						
				7,013	13.0	85/15 Poz A /						
Stage 10	-8000 ft	Tubing and Downhole Equipment	O.D.	Length	Depth	Description						
			0.000	22.00	22.00	KB ISS 20 Rig						
			7.062	0.90	22.90	Wood Group 7 1/16 Tubing Hanger						
			2.375	10,603.10	10,626.00	241 Jts 2 3/8 4.6# L-80 USA Tubing						
			2.375	1.10	10,627.10	Flag Nipple						
			2.375	30.70	10,657.80	1 Jt 2 3/8 4.6# USA Tubing						
			2.375	1.10	10,658.90	Seating Nipple						
			2.375	10.10	10,669.00	1 10' 2 3/8 4.6# Pup Joint						
Stage 9	-8500 ft	Perforations	Stage 1	Date	From	To	Shots	Stage 5	Date	From	To	Shots
				09/09/2010	11,935	11,936	3		09/20/2010	10,595	10,596	3
					11,855	11,856	3			10,571	10,572	3
					11,843	11,844	3			10,567	10,566	3
					11,836	11,837	3			10,538	10,539	3
					11,815	11,816	3			10,466	10,467	3
					11,769	11,770	3			10,450	10,451	3
					11,758	11,759	3			10,420	10,421	3
					11,743	11,744	3			10,398	10,399	3
					11,683	11,684	3			10,344	10,345	3
Stage 8	-9000 ft				11,622	11,623	3			10,326	10,327	3
		Stage 10	Date	From	To	Shots	Stage 6	Date	From	To	Shots	
			09/28/2010	8,984	8,985	3		09/21/2010	10,162	10,163	3	
				8,964	8,965	3			10,150	10,151	3	
				8,947	8,948	3			10,135	10,136	3	
				8,920	8,921	3			10,059	10,060	3	
				8,895	8,896	3			10,035	10,036	3	
				8,892	8,893	3			10,032	10,033	3	
				8,862	8,863	3			9,993	9,994	3	
				8,840	8,841	3			9,987	9,988	3	
Stage 7	-9500 ft				8,828	8,829	3			9,975	9,976	3
				8,772	8,773	3			9,957	9,958	3	
		Stage 11	Date	From	To	Shots	Stage 6R	Date	From	To	Shots	
			09/29/2010	8,734	8,735	3		09/21/2010	10,162	10,163	3	
				8,717	8,718	3			10,150	10,151	3	
				8,680	8,681	3			10,135	10,136	3	
				8,665	8,666	3			10,059	10,060	3	
				8,651	8,652	3			10,035	10,036	3	
				8,633	8,634	3			10,032	10,033	3	
				8,602	8,603	3			9,993	9,994	3	
Stage 6R	-10000 ft				8,572	8,573	3			9,987	9,988	3
				8,525	8,526	3			9,975	9,976	3	
				8,502	8,503	3			9,957	9,958	3	
		Stage 2	Date	From	To	Shots	Stage 7	Date	From	To	Shots	
			09/16/2010	11,547	11,548	3		09/21/2010	9,890	9,891	3	
				11,540	11,541	3			9,875	9,876	3	
				11,520	11,521	3			9,843	9,844	3	
				11,490	11,491	3			9,795	9,796	3	
				11,476	11,477	3			9,770	9,771	3	
				11,440	11,441	3			9,723	9,724	3	
Stage 5	-10500 ft				11,431	11,432	3			9,709	9,710	3
				11,413	11,414	3			9,687	9,688	3	
				11,408	11,409	3			9,678	9,679	3	
				11,316	11,317	3			9,667	9,668	3	
		Stage 3	Date	From	To	Shots	Stage 8	Date	From	To	Shots	
			09/17/2010	11,237	11,238	3		09/23/2010	9,582	9,583	3	
				11,228	11,229	3			9,548	9,549	3	
				11,211	11,212	3			9,526	9,527	3	
				11,176	11,177	3			9,514	9,515	3	
				11,146	11,147	3			9,497	9,498	3	
Stage 4	-11000 ft				11,108	11,109	3			9,491	9,492	3
				11,075	11,076	3			9,466	9,467	3	
				11,010	11,011	3			9,427	9,428	3	
				10,974	10,975	3			9,424	9,425	3	
				10,955	10,956	3			9,414	9,416	3	
		Stage 4	Date	From	To	Shots	Stage 9	Date	From	To	Shots	
			09/19/2010	10,924	10,925	3		09/27/2010	9,309	9,310	3	
				10,915	10,916	3			9,304	9,305	3	
				10,866	10,887	3			9,257	9,258	3	
	Stage 3	-11500 ft				10,883	10,884	3			9,234	9,235
				10,863	10,864	3			9,222	9,223	3	
				10,795	10,796	3			9,187	9,188	3	
				10,678	10,679	3			9,178	9,179	3	
				10,672	10,673	3			9,167	9,168	3	
				10,645	10,646	3			9,146	9,147	3	
				10,639	10,640	3			9,046	9,047	3	
Frac Summary												
Stage 1 : 11,622 - 11,936, 30 - 0.420" shots, 7583 bbls of Slickwater, 51329 lbs of 30-50 Sand Report Date: 09/15/2010												
Stage 2 : 11,316 - 11,548, 30 - 0.420" shots, 10623 bbls of Slickwater, 72679 lbs of 30-50 Sand Report Date: 09/16/2010												
Stage 3 : 10,955 - 11,238, 30 - 0.420" shots, 7495 bbls of Slickwater, 51615 lbs of 30-50 Sand Report Date: 09/19/2010												
Stage 4 : 10,639 - 10,925, 30 - 0.420" shots, 8658 bbls of Slickwater, 58671 lbs of 20-40 Sand Report Date: 09/19/2010												

Set @ 12214

PBTD @ 12166

TD @ 12230

Report by Decision Dynamics Technology Ltd. Well: 05045190020000 Date: 20, 2010 3:54 PM