

Downhole Schematic for SGU 8509A-36 B36 496



Project :North Piceance

API # :05045198400000

Surface Location : Lot2 Sec 36 T4S - R96W 6th PM

Area : Story Gulch

County :

BHL : NESE-36-4S-96 W 6th PM

As Of : 02/16/2012

GL : 8352.0 ft

KB to GL : 22.0 ft

KB : 8374.0 ft

Set @ 118	500 ft	Casing Details									
		Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description	
		Conductor	30.000	20	52	118	120			Linepipe	
	1000 ft	Surface	14.750	10.625	36	3,020	2	LT&C	J-55	Guide Shoe	
				9.625	36	3,019	44	LT&C	J-55	Casing Joint	
	1500 ft			10.625	36	2,975	2	LT&C	J-55	Float Collar	
				9.625	36	2,973	132	LT&C	J-55	Casing Joints	
	2000 ft			10.625	36	2,842	2	LT&C	J-55	Parasite-Sub	
				9.625	36	2,840	1,492	LT&C	J-55	Casing Joints	
	2500 ft			10.625	36	1,348	2	LT&C	J-55	Port Collar	
Set @ 3020				9.625	36	1,346	1,310	LT&C	J-55	Casing Joints	
	3000 ft			9.625	36	36	6	LT&C	J-55	Mandrel+Pup	
				9.625	36	30	27	LT&C	J-55	Landing Joint	
	3500 ft	Production	7.875	5.625	0	12,276	2	Butt	P-110	Guide Shoe	
				4.5	11.6	12,275	20	Butt	P-110	Short Jt. A	
	4000 ft			5.0	0	12,254	2	Butt	P-110	Float Collar	
				4.5	11.6	12,253	1,413	Butt	P-110	Casing	
	4500 ft			4.5	11.6	10,839	20	Butt	P-110	Marker jt B	
				4.5	11.6	10,819	2,193	Butt	P-110	Casing	
	5000 ft			4.5	11.6	8,626	19	Butt	P-110	Marker jt C	
TOC @ 5404				4.5	11.6	8,607	8,610	Butt	P-110	Casing	
	6000 ft	Cement Details									
		Section	Sequence		Top	Density	Blend / Additives				
	6500 ft	Production	Lead		5,404	12.0	NPR / D044 NaCl 5.0% BWOW, D907 cmt, 24.0 lb/sk WBWOB, D035 Extender 54.0 lb/sk WBWOB, D182 Spacer Concentrate 0.5% BWOB, D112 fluid loss 0.3%BWOB, D013 retarder 1.0% BWOB, D046 anti foam 0.2% BWOB, D029 lost circ. control agent 0.25 lb/sk WBWOB				
	7000 ft						Rockies Correct / D044 NaCl 5.0%BWOW, D 901 cement 80.0 lb/sk WBWOB, D035 extender 11.0 lb/sk WBWOB, D178 silica 35.0 BWOB, D020 extender 3.0%BWOB, D182 spcer concentrate 0.5% BWOB, D112 fluid loss 0.75% BWOB, D201 retarder 0.4% BWOB, D065 dispersant 0.2% BWOB, D046 anti foam 0.2% BWOB, D029 lost circ control agent 0.25 lb/sk WBWOB				
	7500 ft		Tail		7,860	13.0	Control Set C / 9.0 LITECETE / 53lb/sk D124+ 37lb/sk D907 + 10lb/sk D154 + .800% D079+ .800% D065+ .400%D013+ 200% D046 + .250lb/skD029				
		Conductor	Lead		0	13.0					
		Surface	Lead		0	9.0					
	8000 ft										
	Stage 14		Perforations								
		Stage 1	Date	From	To	Shots	Stage 3	Date	From	To	Shots
			01/24/2012	12,106	12,107	3		01/27/2012	11,438	11,439	3
				12,103	12,104	3			11,386	11,387	3
				12,027	12,028	3			11,377	11,378	3
				12,005	12,006	3			11,371	11,372	3
8500 ft				11,963	11,964	3			11,358	11,359	3
				11,944	11,945	3			11,342	11,343	3
				11,941	11,942	3			11,330	11,331	3
				11,888	11,889	3			11,304	11,305	3
Stage 13				11,884	11,885	3			11,289	11,290	3
				11,821	11,822	3			11,264	11,265	3
		Stage 10	Date	From	To	Shots	Stage 4	Date	From	To	Shots
			02/09/2012	9,782	9,783	3		01/27/2012	11,236	11,237	3
				9,775	9,776	3			11,233	11,234	3
				9,752	9,753	3			11,222	11,223	3
				9,746	9,747	3			11,178	11,179	3
				9,717	9,718	3			11,135	11,136	3
				9,706	9,707	3			11,093	11,094	3
				9,689	9,690	3			11,047	11,048	3
Stage 12				9,676	9,677	3			11,044	11,045	3
				9,581	9,582	3			10,989	10,990	3
				9,565	9,566	3			10,966	10,967	3
	9000 ft	Stage 11	Date	From	To	Shots	Stage 5	Date	From	To	Shots
			02/10/2012	9,507	9,508	3		01/31/2012	10,939	10,940	3
				9,486	9,487	3			10,915	10,916	3
				9,480	9,481	3			10,903	10,904	3
				9,466	9,467	3			10,889	10,890	3
				9,423	9,424	3			10,870	10,871	3
				9,401	9,402	3			10,854	10,855	3
Stage 11				9,353	9,354	3			10,837	10,838	3
				9,342	9,343	3			10,792	10,793	3
				9,333	9,334	3			10,783	10,784	3
	10000 ft			9,288	9,289	3			10,760	10,761	3
		Stage 12	Date	From	To	Shots	Stage 6	Date	From	To	Shots
			02/13/2012	9,224	9,225	3		02/03/2012	10,692	10,693	3
				9,213	9,214	3			10,667	10,668	3
				9,190	9,191	3			10,630	10,631	3
				9,157	9,158	3			10,575	10,576	3
				9,140	9,141	3			10,557	10,558	3
Stage 10				9,127	9,128	3			10,546	10,547	3
				9,042	9,043	3			10,527	10,528	3
				9,013	9,014	3			10,516	10,517	3
				8,969	8,970	3			10,496	10,497	3
				8,954	8,955	3			10,485	10,486	3
	10500 ft	Stage 13	Date	From	To	Shots	Stage 7	Date	From	To	Shots
			02/14/2012	8,908	8,909	3		02/06/2012	10,426	10,427	3
				8,896	8,897	3			10,406	10,407	3
				8,856	8,857	3			10,382	10,383	3
				8,835	8,836	3			10,366	10,367	3
Stage 9				8,806	8,807	3			10,354	10,355	3
				8,784	8,785	3			10,342	10,343	3
				8,760	8,761	3			10,320	10,321	3
				8,734	8,735	3			10,300	10,301	3
				8,696	8,697	3			10,275	10,276	3
				8,682	8,683	3			10,233	10,234	3
	11000 ft	Stage 14	Date	From	To	Shots	Stage 8	Date	From	To	Shots
			02/16/2012	8,634	8,635	3		02/07/2012	10,196	10,197	3
				8,612	8,613	3			10,187	10,188	3
				8,586	8,587	3			10,157	10,158	3
Stage 8				8,560	8,561	3			10,147	10,148	3
				8,495	8,496	3			10,126	10,127	3
				8,446	8,447	3			10,107	10,108	3
				8,435	8,436	3			10,095	10,096	3
				8,377	8,378	3			10,036	10,037	3
				8,364	8,365	3			10,028	10,029	3
				8,340	8,341	3			10,019	10,020	3
	12000 ft	Stage 2	Date	From	To	Shots	Stage 9	Date	From	To	Shots
			01/26/2012	11,771	11,772	3		02/08/2012	9,970	9,971	3
				11,757	11,758	3			9,962	9,963	3
Stage 7				11,745	11,746	3			9,953	9,954	3
				11,705	11,706	3			9,932	9,933	3
				11,695	11,696	3			9,922	9,923	3
				11,686	11,687	3			9,914	9,915	3
				11,615	11,616	3			9,886	9,887	3
				11,596	11,597	3			9,856	9,857	3
				11,558	11,559	3			9,852	9,853	3
				11,532	11,533	3			9,822	9,823	3
	Set @ 12276										
	PBTD @ 12252										
	TD @ 12306										

Report by Decision Dynamics Technology Ltd. Wellcore

March 28, 2012 12:52 PM

Frac Summary
Stage 1 : 11,821 - 12,107, 30 - 0.420" shots, 5669 bbls of Slickwater Report Date: 01/26/2012
Stage 2 : 11,532 - 11,772, 30 - 0.420" shots, 8860 bbls of Slickwater Report Date: 01/27/2012
Stage 3 : 11,264 - 11,439, 30 - 0.420" shots, 7571 bbls of Slickwater Report Date: 01/27/2012
Stage 4 : 10,966 - 11,237, 30 - 0.420" shots, 6905 bbls of Slickwater Report Date: 01/30/2012