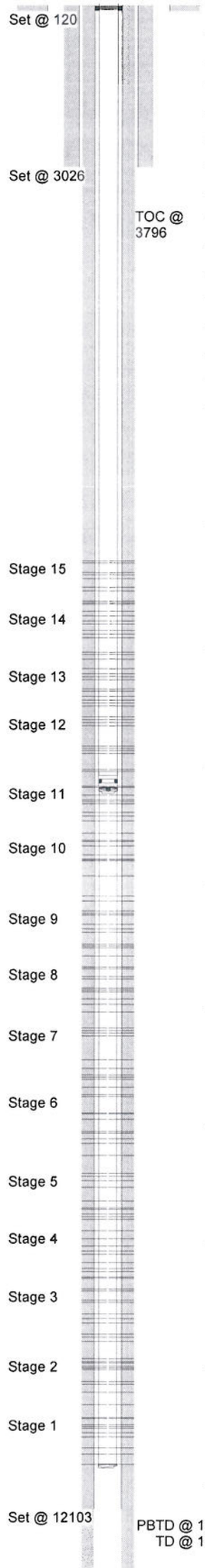
Downhole Schematic for SGU 8502D-36 B36 496

ENCANA

Project : North Piceance | API # : 05045198230000 | Surface Location : Lot2 Sec 36 T4S - R96W 6th PM

Area : Story Gulch | County : | BHL : Lot 2-36-4S-96 W 6th PM

As Of : 10/10/2011 | GL : 8352.0 ft | KB to GL : 22.0 ft | KB : 8374.0 ft



Casing Details

Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
Conductor	30.000	20	0	120	147			Line Pipe
Surface	14.750	10.625	36	3,026	2	LT&C	J-55	Guide Shoe
		9.625	36	3,025	44	LT&C	J-55	Casing Joint
		10.625	36	2,980	2	LT&C	J-55	Float Collar
		9.625	36	2,979	132	LT&C	J-55	Casing Joints
		10.625	36	2,847	2	LT&C	J-55	Parasite-Sub
		9.625	36	2,845	1,497	LT&C	J-55	Casing Joints
		10.625	36	1,348	2	LT&C	J-55	Port Collar
		9.625	36	1,346	1,316	LT&C	J-55	Casing Joints
		9.625	36	30	6	LT&C	J-55	Mandral+Pup
		9.625	36	24	27	LT&C	J-55	Landing Joint
Production	8.750	5.625	0	12,103	2	Butt	P-110	Guide Shoe
		4.5	11.6	12,102	20	Butt	P-110	Short Jt. A
		5.0	0	12,081	2	Butt	P-110	Float Collar
		4.5	11.6	12,080	1,454	Butt	P-110	Casing
		4.5	11.6	10,626	20	Butt	P-110	Marker jt B
		4.5	11.6	10,605	2,683	Butt	P-110	Casing
		4.5	11.6	7,922	21	Butt	P-110	Marker jt C
		4.5	11.6	7,902	7,905	Butt	P-110	Casing

Cement Details

Section	Sequence	Top	Density	Blend / Additives
Surface	Tail	0	9.0	9.0 LiteCrete / 37 lb/skD907+ 10.0 lb/sk D154+ 53.lb/sk D124+ .800% D079+ .800% D065+ .400% D013+ .200%D046+ .250lb/skD029
Production	Lead	0	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
	Tail	7,836	13.0	Rockies Correct / D044 NaCl 5.0%BWOW, D D901 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
Conductor	Tail	0	13.0	Control Set C /

Tubing and Downhole Equipment

O.D.	Length	Depth	Description
0.000	22.00	22.00	KB
7.063	0.93	22.00	7-1/16" GE tbg Hanger
3.060	8,996.01	9,018.01	290 jts. 2-3/8 4.7# L80 Tenaris tbg
3.060	1.10	9,019.11	2-3/8" flag nipple
3.060	30.82	9,049.93	1 jt. 4.7# L80 Tenaris tbg
3.060	1.10	9,051.03	2-3/8" Seating nipple
3.060	31.41	9,082.44	1 jt. 4.7# L80 Tenaris tbg
3.060	0.79	9,083.23	Magnum burst disc
3.060	10.02	9,093.25	8' P110 slotted pup jt.
3.060	1.08	9,094.33	2 3/8" EUE to 2 7/8" flush jt.
2.875	2,816.89	11,911.20	86 jts. 2 7/8" flush jt. J55 6.17#/ft.
2.970	1.18	11,912.40	2 7/8" flush jt. to 2 3/8" EUE
3.060	0.75	11,913.20	Magnum burst disc = EOT

Perforations

Stage	Date	From	To	Shots
1	08/30/2011	11,913	11,914	3
		11,870	11,871	3
		11,842	11,843	3
		11,797	11,798	3
		11,779	11,780	3
		11,761	11,762	3
		11,753	11,754	3
		11,746	11,747	3
		11,719	11,720	3
		11,716	11,717	3
10	09/19/2011	9,558	9,559	3
		9,538	9,539	3
		9,455	9,456	3
		9,392	9,393	3
		9,388	9,389	3
		9,385	9,386	3
		9,367	9,368	3
		9,330	9,331	3
		9,312	9,313	3
		9,306	9,307	3
11	09/20/2011	9,276	9,277	3
		9,225	9,226	3
		9,205	9,206	3
		9,190	9,191	3
		9,154	9,155	3
		9,144	9,145	3
		9,137	9,138	3
		9,117	9,118	3
		9,085	9,086	3
		9,079	9,080	3
12	09/21/2011	9,018	9,019	3
		9,010	9,011	3
		8,943	8,944	3
		8,931	8,932	3
		8,922	8,923	3
		8,914	8,915	3
		8,827	8,828	3
		8,815	8,816	3
		8,803	8,804	3
		8,791	8,792	3
13	09/21/2011	8,746	8,747	3
		8,734	8,735	3
		8,721	8,722	3
		8,706	8,707	3
		8,685	8,686	3
		8,675	8,676	3
		8,637	8,638	3
		8,625	8,626	3
		8,613	8,614	3
		8,592	8,593	3
14	09/22/2011	8,553	8,554	3
		8,533	8,534	3
		8,524	8,525	3
		8,464	8,465	3
		8,449	8,450	3
		8,434	8,435	3
		8,407	8,408	3
		8,394	8,395	3
		8,372	8,373	3
		8,354	8,355	3
		11,514	11,515	3
		11,507	11,508	3
		11,501	11,502	3
		11,487	11,488	3
		11,482	11,483	3
		11,469	11,470	3
3	09/07/2011	11,396	11,397	3
		11,379	11,380	3
		11,366	11,367	3
		11,319	11,320	3
		11,301	11,302	3
		11,280	11,281	3
		11,231	11,232	3
		11,223	11,224	3
		11,185	11,186	3
		11,175	11,176	3
4	09/09/2011	11,131	11,132	3
		11,125	11,126	3
		11,102	11,103	3
		11,090	11,091	3
		11,065	11,066	3
		11,031	11,032	3
		11,017	11,018	3
		10,997	10,998	3
		10,967	10,968	3
		10,933	10,934	3
5	09/09/2011	10,886	10,887	3
		10,875	10,876	3
		10,864	10,865	3
		10,844	10,845	3
		10,838	10,839	3
		10,810	10,811	3
		10,753	10,754	3
		10,725	10,726	3
		10,708	10,709	3
		10,695	10,696	3
6	09/12/2011	10,620	10,621	3
		10,570	10,571	3
		10,551	10,552	3
		10,526	10,527	3
		10,519	10,520	3
		10,468	10,469	3
		10,447	10,448	3
		10,443	10,444	3
		10,374	10,375	3
		10,366	10,367	3
7	09/13/2011	10,335	10,336	3
		10,302	10,303	3
		10,293	10,294	3
		10,284	10,285	3
		10,256	10,257	3
		10,220	10,221	3
		10,121	10,122	3
		10,108	10,109	3
		10,098	10,099	3
		10,087	10,088	3
8	09/14/2011	10,020	10,021	3
		9,988	9,989	3
		9,966	9,967	3
		9,936	9,937	3

EnCana Oil & Gas (USA) Inc. N. Piceance Operations

North Parachute SGU 8502D-36 B36 Perforation Sheet

AFE #: 10142788 05045198230000

Production Casing: 12103' of 4.5" - 11.6# - P-110 - Buttress Threads

TOC: 3346' , Please closely monitor braden head pressure.

Short Joints: 7913 - 7934', 10595 - 10615'

Casing ID: 4.000 in.

W/L PBTD: 12,044 ft

Completion Notes:

EnCana Oil & Gas (USA) Inc.

	Top of Zone	Bottom of Zone	Difference	Top Perf	Bottom Perf	Perforation		Total Holes	Pump Rate	Gross Sand Height	Prop Vol. (lbs)	Est. Water (bbls)
Stage 1	11716	11914	198	11913	11914	3	spf	3				
				11870	11871	3	spf	3				
				11842	11843	3	spf	3				
				11797	11798	3	spf	3				
Williams Fork				11779	11780	3	spf	3				
				11761	11762	3	spf	3				
Flush to top perf (bbls) =		182.1		11753	11754	3	spf	3				
Rat Hole (ft) =		130		11746	11747	3	spf	3				
				11719	11720	3	spf	3				
				11716	11717	3	spf	3				
Stage 2	11469	11663	194	11662	11663	3	spf	3				
				11610	11611	3	spf	3				
				11576	11577	3	spf	3				
				11564	11565	3	spf	3				
Williams Fork				11514	11515	3	spf	3				
				11507	11508	3	spf	3				
Flush to top perf =		178.3		11501	11502	3	spf	3				
Plug interval (ft) =		53		11487	11488	3	spf	3				
				11482	11483	3	spf	3				
				11469	11470	3	spf	3				
					1	0		0				
Stage 3	11175	11397	222	11396	11397	3	spf	3				
				11379	11380	3	spf	3				
				11366	11367	3	spf	3				
				11319	11320	3	spf	3				
Williams Fork				11301	11302	3	spf	3				
				11280	11281	3	spf	3				
Flush to top perf =		173.7		11231	11232	3	spf	3				
Plug interval (ft) =		72		11223	11224	3	spf	3				
				11185	11186	3	spf	3				
				11175	11176	3	spf	3				
Stage 4	10933	11132	199	11131	11132	3	spf	3				
				11125	11126	3	spf	3				
				11102	11103	3	spf	3				
				11090	11091	3	spf	3				
Williams Fork				11065	11066	3	spf	3				
				11031	11032	3	spf	3				
Flush to top perf =		169.9		11017	11018	3	spf	3				
Plug interval (ft) =		43		10997	10998	3	spf	3				
				10967	10968	3	spf	3				
				10933	10934	3	spf	3				
Stage 5	10695	10887	192	10886	10887	3	spf	3				
				10875	10876	3	spf	3				
				10864	10865	3	spf	3				
				10844	10845	3	spf	3				
Williams Fork				10838	10839	3	spf	3				
				10810	10811	3	spf	3				
Flush to top perf =		166.2		10753	10754	3	spf	3				
Plug interval (ft) =		46		10725	10726	3	spf	3				
				10708	10709	3	spf	3				
				10695	10696	3	spf	3				
Stage 6	10366	10621	255	10620	10621	3	spf	3				
				10570	10571	3	spf	3				
				10551	10552	3	spf	3				
				10526	10527	3	spf	3				
Williams Fork				10519	10520	3	spf	3				
				10468	10469	3	spf	3				
Flush to top perf =		161.1		10447	10448	3	spf	3				
Plug interval (ft) =		74		10443	10444	3	spf	3				
				10374	10375	3	spf	3				
				10366	10367	3	spf	3				
Stage 7	10087	10336	249	10335	10336	3	spf	3				
				10302	10303	3	spf	3				
				10293	10294	3	spf	3				
				10284	10285	3	spf	3				
Williams Fork				10256	10257	3	spf	3				
				10220	10221	3	spf	3				
Flush to top perf =		156.8		10121	10122	3	spf	3				
Plug interval (ft) =		30		10108	10109	3	spf	3				
				10098	10099	3	spf	3				
				10087	10088	3	spf	3				
						0		0				
Stage 8	9832	10021	189	10020	10021	3	spf	3				
				9988	9989	3	spf	3				
				9966	9967	3	spf	3				
				9936	9937	3	spf	3				
Williams Fork				9928	9929	3	spf	3				
				9920	9921	3	spf	3				
Flush to top perf =		152.8		9883	9884	3	spf	3				
Plug interval (ft) =		66		9873	9874	3	spf	3				
				9840	9841	3	spf	3				
				9832	9833	3	spf	3				

Stage 9	9600	9789	189	9788	9789	3	spf	3	
				9753	9754	3	spf	3	
				9745	9746	3	spf	3	
				9738	9739	3	spf	3	
Williams Fork				9689	9690	3	spf	3	
				9674	9675	3	spf	3	
Flush to top perf =		149.2		9655	9656	3	spf	3	
Plug interval (ft) =		43		9617	9618	3	spf	3	
				9610	9611	3	spf	3	
				9600	9601	3	spf	3	
Stage 10	9306	9559	253	9558	9559	3	spf	3	
				9538	9539	3	spf	3	
				9455	9456	3	spf	3	
				9392	9393	3	spf	3	
Williams Fork				9388	9389	3	spf	3	
				9385	9386	3	spf	3	
Flush to top perf =		144.6		9367	9368	3	spf	3	
Plug interval (ft) =		41		9330	9331	3	spf	3	
				9312	9313	3	spf	3	
				9306	9307	3	spf	3	
Stage 11	9079	9277	198	9276	9277	3	spf	3	
				9225	9226	3	spf	3	
				9205	9206	3	spf	3	
				9190	9191	3	spf	3	
Williams Fork				9154	9155	3	spf	3	
				9144	9145	3	spf	3	
Flush to top perf =		141.1		9137	9138	3	spf	3	
Plug interval (ft) =		29		9117	9118	3	spf	3	
				9085	9086	3	spf	3	
				9079	9080	3	spf	3	
Stage 12	8791	9019	228	9018	9019	3	spf	3	
				9010	9011	3	spf	3	
				8943	8944	3	spf	3	
				8931	8932	3	spf	3	
Williams Fork				8922	8923	3	spf	3	
				8914	8915	3	spf	3	
Flush to top perf =		136.6		8827	8828	3	spf	3	
Plug interval (ft) =		-9019		8815	8816	3	spf	3	
				8803	8804	3	spf	3	
				8791	8792	3	spf	3	
Stage 13	8592	8747	155	8746	8747	3	spf	3	
				8734	8735	3	spf	3	
				8721	8722	3	spf	3	
				8706	8707	3	spf	3	
Williams Fork				8685	8686	3	spf	3	
				8675	8676	3	spf	3	
Flush to top perf =		133.5		8637	8638	3	spf	3	
Plug interval (ft) =		44		8625	8626	3	spf	3	
				8613	8614	3	spf	3	
				8592	8593	3	spf	3	
Stage 14	8354	8554	200	8553	8554	3	spf	3	
				8533	8534	3	spf	3	
				8524	8525	3	spf	3	
				8464	8465	3	spf	3	
Williams Fork				8449	8450	3	spf	3	
				8434	8435	3	spf	3	
Flush to top perf =		129.8		8407	8408	3	spf	3	
Plug interval (ft) =		38		8394	8395	3	spf	3	
				8372	8373	3	spf	3	
				8354	8355	3	spf	3	
Stage 15	8145	8326	181	8325	8326	3	spf	3	
				8318	8319	3	spf	3	
				8312	8313	3	spf	3	
				8269	8270	3	spf	3	
Williams Fork				8254	8255	3	spf	3	
				8219	8220	3	spf	3	
Flush to top perf =		126.6		8204	8205	3	spf	3	
Plug interval (ft) =		28		8194	8195	3	spf	3	
				8154	8155	3	spf	3	
				8145	8146	3	spf	3	