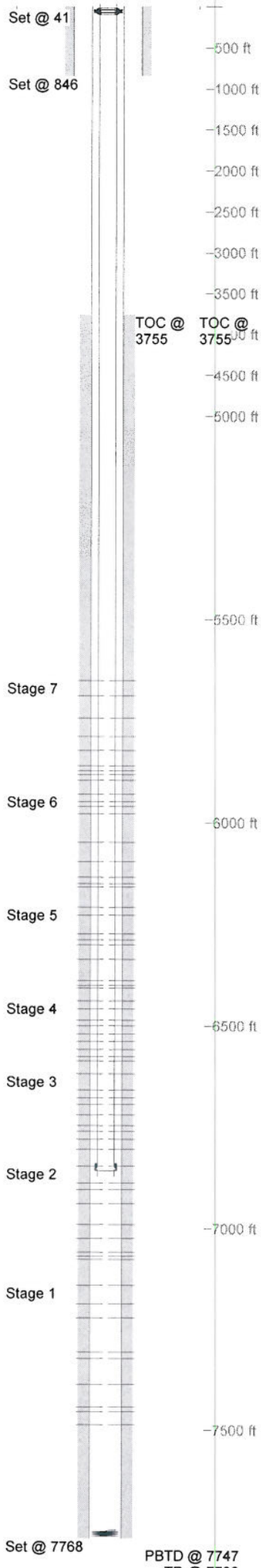
Downhole Schematic for Federal Gardner 20-7BB (PN20)

ENCANA
EnCana Oil & Gas (USA) Inc.

Project : South Piceance | API # : 05045191630000 | Surface Location : SESW Sec 20 T7S - R95W 6th PM

Area : Parachute | County : GARFIELD | BHL : SWNE-20-7S-95 W 6th PM

As Of : 05/13/2011 | GL : 5782.0 ft | KB to GL : 22.0 ft | KB : 5804.0 ft



Casing Details

Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
Conductor	26.000	26.	0	41	41			Joint
Surface	12.250	9.625	0	846	2	LT&C		Float Shoe
		9.625	36	844	817	LT&C	J55	Casing Joints
		9.625	0	28	5	LT&C		Wellhead
		9.625	36	22	26	LT&C	J55	Landing Joint
Production	7.875	4.5	11.6	7,768	1	LT&C	E80	FLOAT SHOE
		4.5	11.6	7,767	18	LT&C	E80	SHOE JOINT
		4.5	11.6	7,749	1	LT&C	E80	FLOAT COLLAR
		4.5	11.6	7,747	1,109	LT&C	E80	4.5"CASING
		4.5	11.6	6,638	19	LT&C	E80	MARKER JT
		4.5	11.6	6,619	1,024	LT&C	E80	CASING JTS
		4.5	11.6	5,595	19	LT&C	E80	MARKER JT
		4.5	11.6	5,576	5,551	LT&C	E80	CASING JTS
			0	25	6			MANDREL
		4.5	11.6	20	26	LT&C	E80	LANDING JT

Cement Details

Section	Sequence	Top	Density	Blend / Additives
Surface		0	0.0	/
	Tail	0	0.0	/
	Scavenger	0	8.3	Water 20 bbl /
	Tail	0	15.8	15.8 G Tail / D907 + 1.25% S001 + 0.2% DO46 + 0.25#/sx D29
Production		0	8.3	WATER SPACER /
		0	8.3	CHEM WASH /
		0	8.3	WATER SPACER /
	Lead	3,755	12.0	TXI / DO49+1%D79+.80%D13+.5%D46+.25LB/SK DO29
	Tail	5,789	13.0	TXI / DO49+3%DO20+.2%D112+.4%DO13+.5%DO46+.25LB/SK DO29
Conductor	Fill	0	0.0	4 yards redi-mix /

Tubing and Downhole Equipment

O.D.	Length	Depth	Description
0.000	20.00	20.00	adjusted KB
4.063	0.82	20.82	4 1/16" x 2 3/8" EUE 5K hanger
2.375	0.67	21.49	2 3/8" EUE N80 saver sub
3.063	0.91	6,840.01	Top POBS
2.375	6,819.40	6,840.89	217 jts 2 3/8" EUE 4.7# L80
3.063	0.97	6,841.86	F nipple
2.375	31.24	6,873.10	1 jt 2 3/8" EUE 4.7# L80
3.750	1.22	7,747.00	Bottom POBS and Bit

Perforations

Stage	Date	From	To	Shots
1	10/29/2010	7,486	7,487	3
		7,454	7,455	3
		7,442	7,443	3
		7,386	7,387	3
		7,322	7,323	3
		7,306	7,307	3
		7,220	7,221	3
		7,186	7,187	3
		7,140	7,141	3
2	04/23/2011	7,076	7,077	3
		7,068	7,069	3
		7,058	7,059	3
		7,024	7,025	3
		6,990	6,991	3
		6,938	6,939	3
		6,904	6,905	3
		6,888	6,889	3
		6,846	6,847	3
3	04/25/2011	6,804	6,805	3
		6,780	6,781	3
		6,760	6,761	3
		6,746	6,747	3
		6,720	6,721	3
		6,694	6,695	3
		6,678	6,679	3
		6,658	6,659	3
		6,618	6,619	3
4	04/29/2011	6,586	6,587	3
		6,576	6,577	3
		6,558	6,559	3
		6,538	6,539	3
		6,520	6,521	3
		6,500	6,501	3
		6,486	6,487	3
		6,458	6,459	3
		6,438	6,439	3
5	04/29/2011	6,406	6,407	3
		6,400	6,401	3
		6,388	6,389	3
		6,336	6,337	3
		6,300	6,301	3
		6,288	6,289	3
		6,274	6,275	3
		6,228	6,229	3
		6,208	6,209	3
6	04/30/2011	6,158	6,159	3
		6,150	6,151	3
		6,134	6,135	3
		6,096	6,097	3
		6,048	6,049	3
		5,978	5,979	3
		5,960	5,961	3
		5,948	5,949	3
		5,930	5,931	3
7	05/01/2011	5,896	5,897	3
		5,882	5,883	3
		5,872	5,873	3
		5,860	5,861	3
		5,822	5,823	3
		5,788	5,789	3
		5,742	5,743	3
		5,688	5,689	3
		5,650	5,651	3

Frac Summary

Stage 1 : 7,140 - 7,487, 27 - 0.340" shots, 9921 bbls of Slickwater Report Date: 04/21/2011
Stage 2 : 6,846 - 7,077, 27 - 0.340" shots, 6186 bbls of Slickwater Report Date: 04/22/2011
Stage 3 : 6,618 - 6,805, 27 - 0.340" shots, 11433 bbls of Slickwater Report Date: 04/28/2011
Stage 4 : 6,438 - 6,587, 27 - 0.340" shots, 11619 bbls of Slickwater Report Date: 04/29/2011
Stage 5 : 6,208 - 6,407, 27 - 0.340" shots, 13335 bbls of Slickwater Report Date: 04/30/2011
Stage 6 : 5,930 - 6,159, 27 - 0.340" shots, 11739 bbls of Slickwater Report Date: 04/29/2011
Stage 7 : 5,650 - 5,897, 27 - 0.340" shots, 9075 bbls of Slickwater Report Date: 05/01/2011

Comments

SIBHP 30 psi 5/13/2011