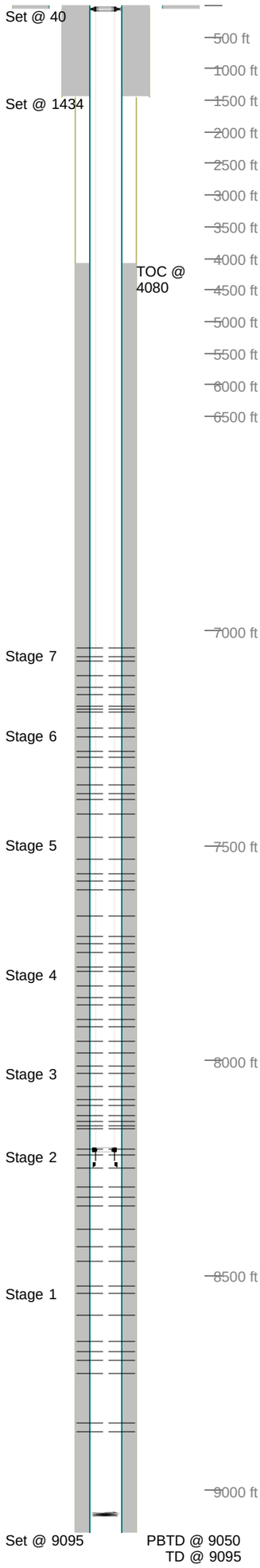
Downhole Schematic for Benjamin Federal 28-12C2 (K28NW)

Project : South Piceance | API # : 05045201840000 | Surface Location : NESW Sec 28 T6S - R93W 6th P

Area : Mamm Creek | County : | BHL : NWSW-28-6S-93 W 6th PM

As Of : 09/07/2011 | GL : 5940.0 ft | KB to GL : 22.0 ft | KB : 5962.0 ft



Casing Details

Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
Conductor	26.000	16	42	40	40		A52A	Joint
Surface	12.250	9.625	36	1,434	1	LT&C	J55	Float Shoe
		9.625	36	1,433	44	LT&C	J55	Casing
			0	1,388	0			Insert
		9.625	36	1,388	1,359	LT&C	J55	Casing
		9.625	36	30	3	LT&C	J55	Pup
		11	0	27	2			Well Head
		9.625	36	25	27	LT&C	J55	Landing Joint
Production	8.750	4.5	11.6	9,095	1	Butt	N80	Float Shoe
		4.5	11.6	9,094	42	Butt	E80	Casing
		4.5	11.6	9,052	1	Butt	N80	Float Collar
		4.5	11.6	9,050	1,178	Butt	E80	Casing
		4.5	11.6	7,872	20	Butt	P110	Marker jt.
		4.5	11.6	7,852	1,007	Butt	E80	Casing
		4.5	11.6	6,845	20	Butt	P110	Marker jt.
		4.5	11.6	6,825	4,327	Butt	E80	Casing
		4.5	11.6	2,498	2,420	Butt	HCP110	Casing
		4.5	11.6	78	37	Butt	HCP110	X/O-Csg
		4.5	11.6	41	3	LT&C	P110	Pup Jt
		11	0	38	3			Mandrill
		4.5	11.6	36	26	LT&C	P110	Landing Jt

Cement Details

Section	Sequence	Top	Density	Blend / Additives
Production	Tail	4,080	13.0	TXI Liteweight / 3.0% D020+0.2%D112+0.5%D013+0.5%D046+0.25lb/skD029
Conductor	Fill	0	0.0	4 yards redi mix /
Surface	Lead	0	12.5	G / 2.0%D079+0.2%D046+0.25lb/skD029
	Tail	934	15.8	G / 1.25%S001+0.2%D046+0.25lb/skD029

Tubing and Downhole Equipment

O.D.	Length	Depth	Description
0.000	20.00	20.00	KB
4.063	0.82	20.82	Tubing Hanger 4 1/16" 10K W.G.
2.594	0.67	21.49	Saver Sub
2.375	8,179.91	8,201.40	251 jts 2 3/8" L80 4.7# eue
3.063	0.97	8,202.37	F-Nipple
2.375	32.65	8,235.02	1 jt 2 3/8" L80 4.7# eue
3.125	0.92	8,235.94	POBS
3.250	1.22	9,050.00	POBS and 3 3/4" hurricane mill

Perforations

Stage	Date	From	To	Shots
1	07/20/2011	8,862	8,863	3
		8,842	8,843	3
		8,726	8,727	3
		8,696	8,697	3
		8,676	8,677	3
		8,654	8,655	3
		8,592	8,593	3
		8,540	8,541	3
		8,524	8,525	3
2	07/23/2011	8,466	8,467	3
		8,432	8,433	3
		8,392	8,393	3
		8,336	8,337	3
		8,318	8,319	3
		8,294	8,295	3
		8,250	8,251	3
		8,220	8,221	3
		8,204	8,205	3
3	07/23/2011	8,158	8,159	3
		8,152	8,153	3
		8,140	8,141	3
		8,128	8,129	3
		8,102	8,103	3
		8,090	8,091	3
		8,060	8,061	3
		8,028	8,029	3
		8,012	8,013	3
4	07/24/2011	7,982	7,983	3
		7,954	7,955	3
		7,920	7,921	3
		7,902	7,903	3
		7,868	7,869	3
		7,852	7,853	3
		7,824	7,825	3
		7,790	7,791	3
		7,780	7,781	3
5	07/24/2011	7,748	7,749	3
		7,726	7,727	3
		7,710	7,711	3
		7,662	7,663	3
		7,602	7,603	3
		7,582	7,583	3
		7,564	7,565	3
		7,530	7,531	3
		7,480	7,481	3
6	07/25/2011	7,426	7,427	3
		7,392	7,393	3
		7,378	7,379	3
		7,358	7,359	3
		7,316	7,317	3
		7,292	7,293	3
		7,278	7,279	3
		7,246	7,247	3
		7,224	7,225	3
7	07/27/2011	7,188	7,189	3
		7,182	7,183	3
		7,174	7,175	3
		7,148	7,149	3
		7,132	7,133	3
		7,102	7,103	3
		7,070	7,071	3
		7,058	7,059	3
		7,038	7,039	3

Frac Summary

Stage 1 : 8,524 - 8,863, 5288 bbls of Slickwater Report Date: 07/23/2011
Stage 2 : 8,204 - 8,467, 7743 bbls of Slickwater Report Date: 07/23/2011
Stage 3 : 8,012 - 8,159, 9410 bbls of Slickwater Report Date: 07/24/2011
Stage 4 : 7,780 - 7,983, 7553 bbls of Slickwater Report Date: 07/24/2011
Stage 5 : 7,480 - 7,749, 3714 bbls of Slickwater Report Date: 07/25/2011
Stage 6 : 7,224 - 7,427, 12016 bbls of Slickwater Report Date: 07/26/2011
Stage 7 : 7,038 - 7,189, 12628 bbls of Slickwater Report Date: 07/28/2011

Comments

SIBH 5 psi 9/7/11