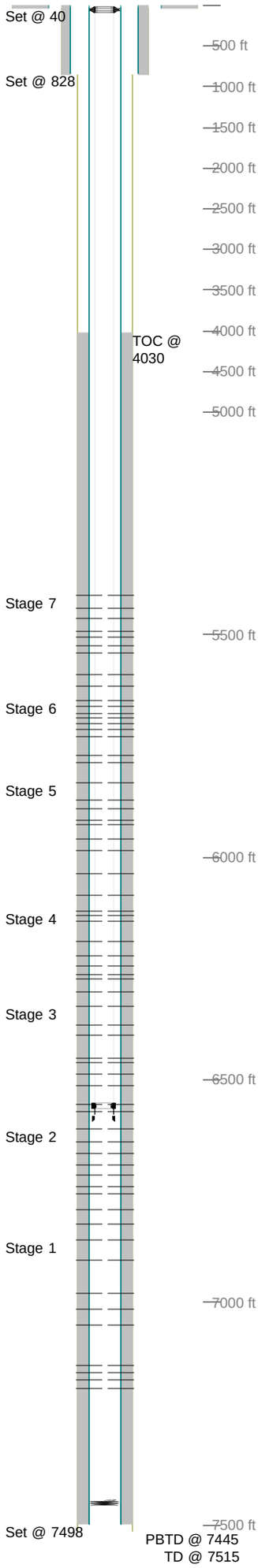
Downhole Schematic for Federal Gardner 20-6 (PN20)

Project : South Piceance | API # : 05045191640000 | Surface Location : SESW Sec 20 T7S - R95W 6th P

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

As Of : 05/16/2011 | 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	16	42	40	40		A52A	Joint
Surface	12.250	9.625	0	828	2	LT&C		Float Shoe
		9.625	36	826	799	LT&C	J55	Casing Joints
		9.625	0	27	5	LT&C		Wellhead
		9.625	36	22	26	LT&C	J55	Landing Joint
Production	7.875	4.5	0	7,498	1	LT&C		Float Shor
		4.5	11.6	7,497	45	LT&C	E80	Shoe Joint
		4.5	0	7,452	1	LT&C		Float Collar
		4.5	11.6	7,451	7,423	LT&C	E80	Casing Joints
		4.5	0	27	6	LT&C		Mandrel
		4.5	11.6	22	26	LT&C	E80	Landing Joint

Cement Details

Section	Sequence	Top	Density	Blend / Additives
Surface	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 10 bbl /
		0	8.3	CW100 20 bbl /
		0	8.3	Water 10 bbl /
	Lead	4,030	12.0	12.0 TXI LS Lead / 1.0% DO79 + 0.8% DO13 + 0.5% DO46 + 0.25#.sx DO29
	Tail	5,431	13.0	13.0 TXI HMS Tail / 3.0% DO20 + 0.2% D112 + 0.4% DO13 + 0.5% DO46 + 0.25#/sx 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
2.375	6,529.46	6,550.90	207 jts 2 3/8" EUE 4.7# L80
3.063	0.97	6,551.92	F nipple
2.375	30.15	6,582.07	1 jt 2 3/8" EUE 4.7# L80
3.063	0.91	6,582.98	Top POBS
3.750	1.22	7,445.00	Bottom POBS and Bit

Perforations

Stage 1

Date	From	To	Shots
10/29/2010	7,194	7,195	3
	7,172	7,173	3
	7,158	7,159	3
	7,140	7,141	3
	7,052	7,053	3
	7,014	7,015	3
	6,978	6,979	3
	6,906	6,907	3
	6,860	6,861	3

Stage 2

Date	From	To	Shots
04/30/2011	6,824	6,825	3
	6,792	6,793	3
	6,756	6,757	3
	6,738	6,739	3
	6,712	6,713	3
	6,692	6,693	3
	6,664	6,665	3
	6,638	6,639	3
	6,610	6,611	3

Stage 3

Date	From	To	Shots
05/01/2011	6,570	6,571	3
	6,556	6,557	3
	6,514	6,515	3
	6,488	6,489	3
	6,460	6,461	3
	6,450	6,451	3
	6,398	6,399	3
	6,378	6,379	3
	6,334	6,335	3

Stage 4

Date	From	To	Shots
05/02/2011	6,302	6,303	3
	6,274	6,275	3
	6,262	6,263	3
	6,244	6,245	3
	6,222	6,223	3
	6,190	6,191	3
	6,142	6,143	3
	6,132	6,133	3
	6,120	6,121	3

Stage 5

Date	From	To	Shots
05/03/2011	6,086	6,087	3
	6,036	6,037	3
	5,986	5,987	3
	5,960	5,961	3
	5,928	5,929	3
	5,916	5,917	3
	5,890	5,891	3
	5,870	5,871	3
	5,834	5,835	3

Stage 6

Date	From	To	Shots
05/04/2011	5,786	5,787	3
	5,772	5,773	3
	5,730	5,731	3
	5,712	5,713	3
	5,700	5,701	3
	5,688	5,689	3
	5,676	5,677	3
	5,662	5,663	3
	5,648	5,649	3

Stage 7

Date	From	To	Shots
05/05/2011	5,614	5,615	3
	5,588	5,589	3
	5,540	5,541	3
	5,524	5,525	3
	5,506	5,507	3
	5,492	5,493	3
	5,464	5,465	3
	5,442	5,443	3
	5,412	5,413	3

Frac Summary

Stage 1 : 6,860 - 7,195, 27 - 0.340" shots, 10000 bbls of Slickwater Report Date: 04/26/2011
Stage 2 : 6,610 - 6,825, 27 - 0.340" shots, 8143 bbls of Slickwater Report Date: 05/01/2011
Stage 3 : 6,334 - 6,571, 27 - 0.340" shots, 8578 bbls of Slickwater Report Date: 05/02/2011
Stage 4 : 6,120 - 6,303, 27 - 0.340" shots, 18572 bbls of Slickwater Report Date: 05/03/2011
Stage 5 : 5,834 - 6,087, 27 - 0.340" shots, 7571 bbls of Slickwater Report Date: 05/04/2011
Stage 6 : 5,648 - 5,787, 27 - 0.340" shots, 18286 bbls of Slickwater Report Date: 05/04/2011
Stage 7 : 5,412 - 5,615, 27 - 0.340" shots, 15571 bbls of Slickwater Report Date: 05/06/2011

Comments

SIBHP 0 psi 5/16/2011