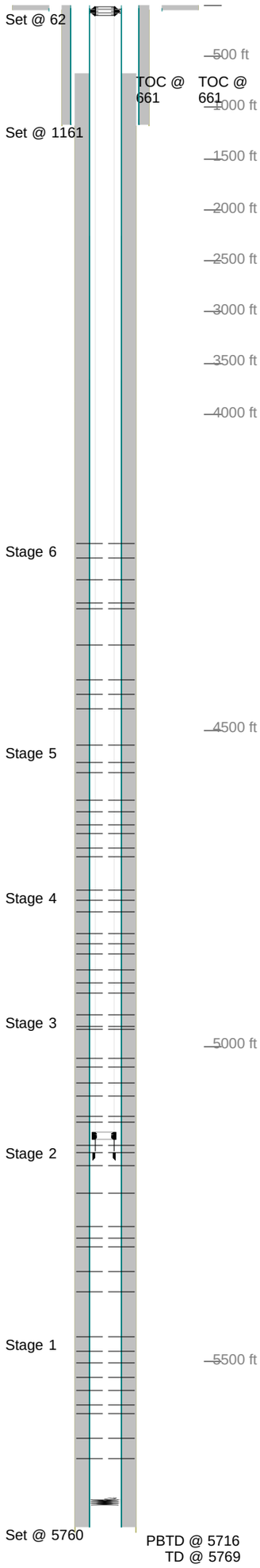
Downhole Schematic for Twin Creek 12-2A1 (O1EB)

Project : South Piceance | API # : 05045195480000 | Surface Location : SWSE Sec 1 T7S - R92W 6th PM

Area : Mamm Creek | County : GARFIELD | BHL : NWNE-12-7S-92 W 6th PM

As Of : 06/04/2011 | GL : 6062.0 ft | KB to GL : 22.0 ft | KB : 6084.0 ft



Casing Details

Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
Conductor	26.000	16	42	62	40			CONDUCTOR
Surface	12.250	9.625	36	1,161	1	LT&C	J55	Float Shoe
		9.625	36	1,160	44	LT&C	J55	Casing
			0	1,116	0			Insert
		9.625	36	1,116	1,088	LT&C	J55	Casing
		9.625	36	28	3	LT&C	J55	Pup
			0	25	2			Well Head
			0	23	27			Landing Joint
Production	8.750	4.5	11.6	5,760	1	LT&C		Float Shoe
		4.5	11.6	5,759	41	LT&C	E80	Casing
		4.5	11.6	5,718	1	LT&C		Float Collar
		4.5	11.6	5,716	1,070	LT&C	E80	Casing
		4.5	11.6	4,646	22	LT&C	P110	Marker
		4.5	11.6	4,623	947	LT&C	E80	Casing
		4.5	11.6	3,676	22	LT&C	P110	Marker
		4.5	11.6	3,654	1,399	LT&C	E80	Casing
		4.5	11.6	2,255	2,228	LT&C	P110	Casing
			0	28	5			Mandrel
		4.5	11.6	22	26	LT&C	P110	Landing Jt

Cement Details

Section	Sequence	Top	Density	Blend / Additives
Surface	Tail	0	15.8	"G" / 1.25%S1+.2%D46+.25ppsD29
Production	Lead	661	12.5	D049 / 1.0% D079+0.4%D207+0.8% 0.6% D013+0.5% D046 +0.25lb/sk D029
	Tail	3,877	13.0	D049 / + 3.0% DO2O+0.3% D112+ 0.2%D013+0.5%D046 +0.25lb/skD029 + Displaced W/ 88.6bbls H2O
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	5,114.17	5,135.66	163 jts 2 3/8" EUE 4.7# L80
3.063	0.97	5,136.63	F nipple
2.375	31.42	5,168.05	1 jt 2 3/8" EUE 4.7# L80
3.063	0.91	5,168.96	Top POBS
3.750	1.22	5,716.00	Bottom POBS and Bit

Perforations

Stage 1

Date	From	To	Shots
03/01/2011	5,652	5,653	3
	5,620	5,621	3
	5,582	5,583	3
	5,568	5,569	3
	5,544	5,545	3
	5,524	5,525	3
	5,502	5,503	3
	5,484	5,485	3
	5,460	5,461	3

Stage 2

Date	From	To	Shots
05/09/2011	5,388	5,389	3
	5,356	5,357	3
	5,318	5,319	3
	5,304	5,305	3
	5,286	5,287	3
	5,232	5,233	3
	5,190	5,191	3
	5,168	5,169	3
	5,156	5,157	3

Stage 3

Date	From	To	Shots
05/10/2011	5,120	5,121	3
	5,110	5,111	3
	5,080	5,081	3
	5,058	5,059	3
	5,034	5,035	3
	5,020	5,021	3
	4,974	4,975	3
	4,968	4,969	3
	4,950	4,951	3

Stage 4

Date	From	To	Shots
05/11/2011	4,916	4,917	3
	4,900	4,901	3
	4,880	4,881	3
	4,854	4,855	3
	4,838	4,839	3
	4,822	4,823	3
	4,788	4,789	3
	4,768	4,769	3
	4,754	4,755	3

Stage 5

Date	From	To	Shots
05/12/2011	4,700	4,701	3
	4,686	4,687	3
	4,664	4,665	3
	4,650	4,651	3
	4,628	4,629	3
	4,610	4,611	3
	4,566	4,567	3
	4,550	4,551	3
	4,524	4,525	3

Stage 6

Date	From	To	Shots
05/12/2011	4,466	4,467	3
	4,442	4,443	3
	4,420	4,421	3
	4,364	4,365	3
	4,308	4,309	3
	4,298	4,299	3
	4,262	4,263	3
	4,228	4,229	3
	4,204	4,205	3

Frac Summary

Stage 1 : 5,460 - 5,653, 27 - 0.340" shots, 11925 bbls of Slickwater Report Date: 05/09/2011
Stage 2 : 5,156 - 5,389, 27 - 0.340" shots, 10939 bbls of Slickwater Report Date: 05/10/2011
Stage 3 : 4,950 - 5,121, 27 - 0.340" shots, 11166 bbls of Slickwater Report Date: 05/11/2011
Stage 4 : 4,754 - 4,917, 27 - 0.340" shots, 8969 bbls of Slickwater Report Date: 05/11/2011
Stage 5 : 4,524 - 4,701, 27 - 0.340" shots, 13182 bbls of Slickwater Report Date: 05/12/2011
Stage 6 : 4,204 - 4,467, 27 - 0.340" shots, 8139 bbls of Slickwater Report Date: 05/14/2011

Bridge Plug Details

Depth	Date Set	Plug Type	Sacks Cement
4,150.0	05/16/2011	CBP	0

CBP at 4,150.0 drilled out 06/04/2011

Comments

SIBHP 0 psi 6/4/2011