

Downhole Schematic for N Parachute WF11A-22 K22 596



Project :North Piceance      API # :05045188800000      Surface Location : NESW Sec 22 T5S - R96W 6th PM  
Area : N Parachute      County :      BHL : NESW-22-5S-96 W 6th PM  
As Of : 08/12/2011      GL : 6533.0 ft      KB to GL : 22.0 ft      KB : 6555.0 ft

Set @ 120	Casing Details									
	Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description	
	Conductor	26.000	16	42.09	120	120		A52A	line pipe	
	Surface	12.250	9.625	0	1,693	2	LT&C		Float Shoe	
			9.625	36	1,692	42	LT&C	J55	Shoe Track	
Set @ 1693			9.625	36	1,649	43	LT&C	J55	Shark Bite	
			9.625	36	1,606	1,566	LT&C	J55	Joints Of Casing	
			9.625	36	40	5	ST&C	J55	Wellhead Assm	
			9.625	36	35	29		J55	Landing Joint	
Set @ 1693		Production	8.750	4.5	0	8,934	2	Butt		Float Shoe
				4.5	11.6	8,933	26	Butt	E80	Marker Jnt
				4.5	11.6	8,906	2	Butt	E80	Float Collar
				4.5	11.6	8,905	1,503	Butt	E80	Casing
				4.5	11.6	7,402	23	Butt	S80	Marker Jnt
Set @ 1693				4.5	11.6	7,379	2,237	Butt	E80	Casing
				4.5	11.6	5,142	22	Butt	S80	Marker Jnt
				4.5	11.6	5,120	5,123	Butt	E80	Casing
Set @ 1693		Cement Details								
	Section	Sequence	Top	Density	Blend / Additives					
	Production	Scavenger	0	8.3	CW7 / 20 bbl					
		Scavenger	0	12.0	MUDPUSH II / 30 bbl 100# D182+6600#D031					
		Lead	1,278	12.5	12.5ppg Poz "G" / 5.0% D044+0.2% D046+ 2.0% D079 + 1.4% D013					
Set @ 1693		Tail	4,316	13.0	+ 0.5% D182 + 0.25 PPS D029					
					13.0 PPG Poz "A" - Rockies Correct / 5.0% D044 + 35% D178+					
					3.0% D020 + 0.4% D182 + 0.75% D112 +0.35% D201% +0.2%					
					D065+ 0.2% D046 + 0.25 PPS D029					
					"G" / G+1%D79+0.2%D46+0.25pps D29					
Set @ 1693		Surface	Tail	0	14.0					
	Conductor	Lead	0	13.0	Control Set C / 1/4lb/sk Polliflake					
		Tail	70	13.5	Control set C / 1/4lb/sk Polliflake					
Set @ 1693		Tubing and Downhole Equipment								
	O.D.	Length	Depth	Description						
	0.000	22.00	0.00	22ft KB						
	7.063	0.93	22.00	7-1/16" Wood Group Tbg hanger						
	3.063	7,569.29	7,591.29	240jts 2-3/8" 4.7# L80 EUE Tbg						
Set @ 1693		3.063	1.10	7,592.39	2-3/8" N80 Flag Nipple (1.995" I.D)					
		3.063	31.33	7,623.72	1jt (000jts total) 2-3/8" 4.7# L80 EUE Tbg					
		3.063	1.10	7,624.82	2-3/8" Seating Nipple (1.78" I.D)					
		3.063	10.10	7,634.92	2-3/8" 10ft Pup Jt = EOT					
Set @ 1693		Perforations								
	Stage 1									
	Date	From	To	Shots						
	07/21/2011	8,716	8,717	3						
		8,682	8,683	3						
Set @ 1693		8,679	8,680	3						
		8,675	8,676	3						
		8,648	8,649	3						
		8,612	8,613	3						
		8,578	8,579	3						
Set @ 1693		8,536	8,537	3						
		8,529	8,530	3						
		8,522	8,523	3						
Set @ 1693		Stage 10								
	Date	From	To	Shots						
	08/02/2011	5,860	5,861	3						
		5,798	5,799	3						
		5,785	5,786	3						
Set @ 1693		5,760	5,761	3						
		5,748	5,749	3						
		5,730	5,731	3						
		5,720	5,721	3						
		5,665	5,666	3						
Set @ 1693		5,646	5,647	3						
		5,617	5,618	3						
Set @ 1693		Stage 11								
	Date	From	To	Shots						
	08/03/2011	5,588	5,589	3						
		5,585	5,586	3						
		5,563	5,564	3						
Set @ 1693		5,555	5,556	3						
		5,540	5,541	3						
		5,491	5,492	3						
		5,479	5,480	3						
		5,460	5,461	3						
Set @ 1693		5,357	5,358	3						
		5,348	5,349	3						
Set @ 1693		Stage 2								
	Date	From	To	Shots						
	07/25/2011	8,439	8,440	3						
		8,435	8,436	3						
		8,377	8,378	3						
Set @ 1693		8,372	8,373	3						
		8,343	8,344	3						
		8,271	8,272	3						
		8,256	8,257	3						
		8,237	8,238	3						
Set @ 1693		8,222	8,223	3						
		8,200	8,201	3						
Set @ 1693		Stage 3								
	Date	From	To	Shots						
	07/25/2011	8,165	8,166	3						
		8,160	8,161	3						
		8,153	8,154	3						
Set @ 1693		8,110	8,111	3						
		8,105	8,106	3						
		8,032	8,033	3						
		8,010	8,011	3						
		7,992	7,993	3						
Set @ 1693		7,903	7,904	3						
		7,869	7,870	3						
Set @ 1693		Stage 4								
	Date	From	To	Shots						
	07/26/2011	7,751	7,752	3						
		7,716	7,717	3						
		7,710	7,711	3						
Set @ 1693		7,705	7,706	3						

Set @ 8934      PBSD @ 8905      TD @ 8950

**Frac Summary**  
Stage 1 : 8,522 - 8,717, 30 - 0.420" shots, 5047 bbls of Slickwater Report Date: 07/25/2011  
Stage 2 : 8,200 - 8,440, 30 - 0.420" shots, 8017 bbls of Slickwater Report Date: 07/25/2011  
Stage 3 : 7,869 - 8,166, 30 - 0.420" shots, 8759 bbls of Slickwater Report Date: 07/26/2011  
Stage 4 : 7,471 - 7,752, 30 - 0.420" shots, 8944 bbls of Slickwater Report Date: 07/26/2011  
Stage 5 : 7,137 - 7,428, 30 - 0.420" shots, 14237 bbls of Slickwater Report Date: 07/27/2011  
Stage 6 : 6,888 - 7,106, 30 - 0.420" shots, 9966 bbls of Slickwater Report Date: 07/28/2011  
Stage 7 : 6,562 - 6,840, 30 - 0.420" shots, 14144 bbls of Slickwater Report Date: 07/29/2011  
Stage 8 : 6,240 - 6,508, 30 - 0.420" shots, 10151 bbls of Slickwater Report Date: 08/01/2011  
Stage 9 : 5,942 - 6,198, 30 - 0.420" shots, 8851 bbls of Slickwater Report Date: 08/02/2011  
Stage 10 : 5,617 - 5,861, 30 - 0.420" shots, 13404 bbls of Slickwater Report Date: 08/02/2011  
Stage 11 : 5,348 - 5,589, 30 - 0.420" shots, 15630 bbls of Slickwater Report Date: 08/04/2011

**Comments**  
See Attached Tbg tally  
000jts of 2-3/8" 4.7# L80  
Mfg: Tenaris  
Made in USA

Report by Decision Dynamics Technology Ltd. Well      October 18, 2011 12:55 PM