

Downhole Schematic for SG WD16A-19 C19 495



Project :North Piceance

API # :05045211330000

Surface Location : NENW Sec 19 T4S - R95W 6th PM

Area : Story Gulch

County :

BHL : SESE-19-4S-95 W 6th PM

As Of : 09/14/2012

GL : 8122.0 ft

KB to GL : 30.6 ft

KB : 8152.6 ft

Set @ 120	-500 ft	Casing Details		Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
		Section	Conductor	30.000	20	0	120	120			Line Pipe
	-1000 ft	Surface		14.750	9.625	0	3,035	2	LT&C	K-55	Float Shoe
					9.625	36	3,033	45	LT&C	J-55	Surface Csg
	-1500 ft				9.625	0	2,989	2	LT&C	K-55	Float Collar
					9.625	36	2,987	134	LT&C	J-55	Surface Csg
	-2000 ft				9.625	0	2,853	1	LT&C		Parasite Sub
					9.625	36	2,852	2,814	LT&C	J-55	Surface Csg
	-2500 ft					0	37	5			Wellhead/Pup
					9.625	36	33	38	LT&C	J-55	Landing Jnt
Set @ 3035	-3000 ft	Production		8.750	4.5	11.6	9,632	2	LT&C	P-110	Float Shoe
					4.5	11.6	9,631	19	LT&C	P-110	Shoe Jt
	-3500 ft				4.5	11.6	9,612	2	LT&C	P-110	Float Cilr
					4.5	11.6	9,610	1,203	LT&C	P-110	Prod. Csg
	-4000 ft				4.5	11.6	8,407	12	LT&C	P-110	Marker Jnt
					4.5	11.6	8,394	705	LT&C	P-110	Prod. Csg
	-4500 ft				4.5x5.5	11.6	7,689	3	LT&C		XO
					5.5	17	7,686	815	LT&C	HCP-110	Prod. csg
	-5000 ft				5.5	17	6,871	10	LT&C	HCP-110	Marker
					5.5	17	6,861	6,859	LT&C	HCP-110	Prod. Csg
Stage 8	-5500 ft	Cement Details		Sequence	Top	Density	Blend / Additives				
		Section	Conductor	Lead	0	0.0	Ready Mix / Sand Grout Mix - 7 sks				
	-6000 ft	Surface	Tail	0	9.0	Lite Crete / D079, 0.8%, D065 0.2%, D013 0.5%, D029 0.25 # p/sk, D095 2 lb p/ bbl					
	-6500 ft	Production	Scavenger	0	10.0	MudPush II / 50.0 lb/bbl D042 + 2211.8 lb/mgal D066 + 10 lb/bbl CemNet+					
			Lead	1,754	10.5	LiteCRETE / 0.6% D065 + 0.65% D013 + 0.2% D046 + 0.25 lb/sx D029 = 1ppb CemNet in last 150 bbls					
			Tail	6,015	12.0	TXI / 1.0% D079 + 0.3% D112 + 0.9% D013 + 0.5% D046 + 0.25 lb/sx D029 + 1.0 ppb CemNet.					
		Tubing and Downhole Equipment									
		O.D.	Length	Depth	Description						
		0.000	30.00	30.00	KB						
		7.063	0.95	30.95	GE extended neck hanger						
Stage 7A	-7000 ft	3.500	0.65	31.60	3 1/2" Ultra FJ pin x 3 1/2" EUE pin coated						
		3.500	6,864.83	6,896.43	210 jts. 3 1/2" L80 8.81# Ultra FJ coated tbgr.						
		3.500	1.00	6,897.43	3 1/2" Ultra FJ box x 2 7/8" EUE pin coated						
		3.000	0.00	6,897.43	4' seal bore stinger						
		4.600	8.53	6,905.96	5 1/2" RSB packer w/ 3.75" mill out extension nickel plated						
		3.668	0.83	6,906.79	2 7/8" GX nipple Stainless steel						
		3.668	10.33	6,917.12	2 7/8" N80 6.5# nickel plated sub						
		3.668	0.83	6,917.95	2 7/8" GXN nipple Stainless steel						
		3.668	10.23	6,928.18	2 7/8" N80 6.5# nickel plated sub						
		3.670	0.78	6,928.96	2 7/8" ceramic disc						
Stage 6A	-7500 ft	3.668	0.45	6,929.41	2 7/8" EUE tbgr. collar						
		Perforations									
		Stage 1	Date	From	To	Shots	Stage 6A	Date	From	To	Shots
			04/18/2012	9,551	9,552	6		06/09/2012	7,989	7,990	6
				9,539	9,540	6			7,970	7,971	6
				9,512	9,513	6			7,903	7,904	6
				9,488	9,489	6			7,879	7,880	6
				9,452	9,453	6			7,850	7,851	6
				9,427	9,428	6			7,830	7,831	6
				9,384	9,385	6			7,794	7,795	6
Stage 5	-8000 ft			9,374	9,375	6			7,772	7,773	6
				9,355	9,356	6			7,747	7,748	6
				9,326	9,327	6			7,723	7,724	6
		Stage 2	Date	From	To	Shots	Stage 6B	Date	From	To	Shots
			06/05/2012	9,285	9,286	6		06/09/2012	7,989	7,990	6
				9,253	9,254	6			7,970	7,971	6
				9,234	9,235	6			7,903	7,904	6
				9,181	9,182	6			7,879	7,880	6
				9,147	9,148	6			7,850	7,851	6
				9,123	9,124	6			7,830	7,831	6
Stage 4	-8500 ft			9,105	9,106	6			7,794	7,795	6
				9,093	9,094	6			7,772	7,773	6
				9,067	9,068	6			7,747	7,748	6
				9,020	9,021	6			7,723	7,724	6
		Stage 3	Date	From	To	Shots	Stage 7A	Date	From	To	Shots
			06/05/2012	8,974	8,975	6		06/15/2012	7,695	7,696	6
				8,962	8,963	6			7,679	7,680	6
				8,914	8,915	6			7,663	7,664	6
				8,870	8,871	6			7,581	7,582	6
				8,846	8,847	6			7,554	7,555	6
Stage 3	-9000 ft			8,816	8,817	6			7,538	7,539	6
				8,794	8,795	6			7,506	7,507	6
				8,742	8,743	6			7,485	7,486	6
				8,731	8,732	6			7,458	7,459	6
				8,709	8,710	6			7,409	7,410	6
		Stage 4	Date	From	To	Shots	Stage 7B	Date	From	To	Shots
			06/06/2012	8,652	8,653	6		06/15/2012	7,695	7,696	6
				8,616	8,617	6			7,679	7,680	6
				8,596	8,597	6			7,663	7,664	6
				8,510	8,511	6			7,581	7,582	6
Stage 2	-9500 ft			8,492	8,493	6			7,554	7,555	6
				8,464	8,465	6			7,538	7,539	6
				8,446	8,447	6			7,506	7,507	6
				8,405	8,406	6			7,485	7,486	6
				8,388	8,389	6			7,458	7,459	6
				8,319	8,320	6			7,409	7,410	6
		Stage 5	Date	From	To	Shots	Stage 8	Date	From	To	Shots
			06/07/2012	8,287	8,288	6		06/19/2012	7,335	7,336	6
				8,258	8,259	6			7,310	7,311	6
				8,237	8,238	6			7,276	7,277	6
Stage 1	-9500 ft			8,217	8,218	6			7,251	7,252	6
				8,179	8,180	6			7,232	7,233	6
				8,147	8,148	6			7,188	7,189	6
				8,110	8,111	6			7,158	7,159	6
				8,096	8,097	6			7,047	7,048	6
				8,082	8,083	6			7,000	7,001	6
				8,025	8,026	6			6,969	6,970	6

Set @ 9632

PBTD @ 9610

TD @ 9665

Frac Summary

Stage 1 : 9,326 - 9,552, 60 - 0.420" shots, 20204 bbls of Slickwater Report Date: 06/05/2012

Stage 2 : 9,020 - 9,286, 60 - 0.420" shots, 20199 bbls of Slickwater Report Date: 06/05/2012

Stage 3 : 8,709 - 8,975, 60 - 0.420" shots, 20196 bbls of Slickwater Report Date: 06/06/2012

Stage 4 : 8,319 - 8,653, 60 - 0.420" shots, 20189 bbls of Slickwater Report Date: 06/07/2012

Stage 5 : 8,025 - 8,288, 60 - 0.420" shots, 20184 bbls of Slickwater Report Date: 06/08/2012

Stage 6A : 7,723 - 7,990, 60 - 0.420" shots, 11000 bbls of Slickwater Report Date: 06/09/2012

Stage 6B : 7,723 - 7,990, 9179 bbls of Slickwater Report Date: 06/10/2012

Stage 7B : 7,409 - 7,696, 5327.8 bbls of Slickwater Report Date: 06/19/2012

Stage 7A : 7,409 - 7,696, 60 - 0.420" shots, 14328 bbls of Slickwater Report Date: 06/18/2012

Stage 8 : 6,969 - 7,336, 60 - 0.420" shots, 19838 bbls of Slickwater Report Date: 06/20/2012