

Downhole Schematic for HMU Fee 16-8D (J16W)



Project :South Piceance		API # :05045204050000		Surface Location : NWSE Sec 16 T7S - R93W 6th PM						
Area : Mamm Creek		County :		BHL : NWSE-16-7S-93 W 6th PM						
As Of :		GL : 0.0 ft		KB to GL :		ft		KB : 0.0 ft		
Set @ 72		<b>Casing Details</b>								
	-500 ft	Section Conductor	Hole 26.000	Casing 16	Mass 42	Set At 72	Length 72	Thread	Grade A52A	Description Joint
	-1000 ft	Surface	12.250	9.875	0	1,697	2	LT&C	J-55	Float Shoe
				9.875	36	1,696	44	LT&C		Casing
	-1500 ft			9.875	0	1,652	2	LT&C	J-55	Float Collar
Set @ 1697				9.875	36	1,650	1,622	LT&C	J-55	Casing
	-2000 ft			9.875	0	28	5	LT&C		Wellhead
				9.875	36	23	27	LT&C	J-55	Landing Jt.
	-2500 ft	Production	7.875	4.5	11.6	10,666	1	Butt	S 80	Float shoe
				4.5	11.6	10,665	44	Butt	S 80	Shoe joint
	-3000 ft			4.5	11.6	10,621	1	Butt	S 80	Float collar
				4.5	11.6	10,620	2,231	Butt	S 80	Casing
	-3500 ft			4.5	11.6	8,389	22	Butt	S 80	Marker joint
				4.5	11.6	8,367	921	Butt	S 80	Casing
	-4000 ft			4.5	11.6	7,446	22	Butt	S 80	Marker joint
				4.5	11.6	7,424	7,429	Butt	S 80	Casing
	-4500 ft	<b>Cement Details</b>								
	-5000 ft	Section Conductor	Sequence Fill	Top	Density	Blend / Additives				
		Surface		0	0.0	4 yards redi mix /				
				0	8.3	Water 20 bbl /				
TOC @ 5370	-5500 ft		Lead	0	12.5	G Lead / G + 2.0% DO79 + 0.2% DO46 + 0.25#/sx DO29				
			Tail	1,413	15.8	G Tail / G + 1.0% S001 + 0.2% DO46 + 0.25#/sx DO29				
	-6000 ft	Production	Scavenger	4,808	11.3	Mud push II 40 /				
			Lead	5,539	12.0	TXI / D049 75# SK, D079 1%, D013 .9%, D046 .5%, D029 .25LB/SK				
	-6500 ft		Tail	7,805	13.0	TXI / D049 75# SK, D020 3%, D112 .2%, D013 .5%, D046 .5%, D029 .25LB/SK				
	-7000 ft	<b>Perforations</b>								
		Stage 1							8,950	8,951 3
		Date	From	To	Shots				8,934	8,935 3
		07/05/2012	10,546	10,547	3				8,868	8,869 3
			10,526	10,527	3				8,852	8,853 3
			10,518	10,518	3				8,830	8,831 3
			10,496	10,497	3			Stage 6		
			10,490	10,491	3			Date	From	To Shots
			10,484	10,485	3			07/18/2012	8,718	9,719 3
			10,476	10,477	3				8,780	8,781 3
			10,470	10,471	3				8,768	8,769 3
	-7500 ft		10,462	10,463	3				8,678	8,679 3
		Stage 2							8,658	8,659 3
		Date	From	To	Shots				8,636	8,637 3
		07/09/2012	10,414	10,415	3				8,614	8,615 3
			10,372	10,373	3				8,604	8,605 3
			10,358	10,359	3				8,564	8,565 3
			10,346	10,347	3			Stage 7		
			10,330	10,331	3			Date	From	To Shots
Stage 9			10,308	10,309	3			07/18/2012	8,520	8,521 3
			10,294	10,295	3				8,496	8,497 3
			10,276	10,277	3				8,434	8,435 3
			10,256	10,257	3				8,414	8,415 3
	-8000 ft								8,396	8,397 3
Stage 8		Stage 3							8,380	8,381 3
		Date	From	To	Shots				8,364	8,365 3
		07/11/2012	9,702	9,703	3				8,344	8,345 3
			9,688	9,689	3				8,300	8,301 3
			9,616	9,617	3			Stage 8		
			9,594	9,595	3			Date	From	To Shots
			9,528	9,529	3			07/20/2012	8,254	8,255 3
Stage 7			9,512	9,513	3				8,242	8,243 3
			9,490	9,491	3				8,174	8,175 3
			9,430	9,431	3				8,164	8,165 3
			9,368	9,369	3				8,138	8,139 3
	-8500 ft								8,086	8,087 3
Stage 6		Stage 4							8,068	8,069 3
		Date	From	To	Shots				8,038	8,039 3
		07/12/2012	9,324	9,325	3				8,020	8,021 3
			9,282	9,283	3			Stage 9		
			9,268	9,269	3			Date	From	To Shots
			9,248	9,249	3			07/21/2012	7,990	7,991 3
			9,212	9,213	3				7,978	7,979 3
			9,164	9,165	3				7,940	7,941 3
Stage 5			9,120	9,121	3				7,928	7,929 3
			9,098	9,099	3				7,898	7,899 3
			9,078	9,079	3				7,880	7,881 3
	-9000 ft								7,860	7,861 3
Stage 4		Stage 5							7,828	7,829 3
		Date	From	To	Shots				7,808	7,809 3
		07/13/2012	9,028	9,029	3					
			9,010	9,011	3					
			8,992	8,993	3					
			8,976	8,977	3					
		<b>Frac Summary</b>								
		Stage 1 : 10,462 - 10,547, 27 - 0.380" shots, 9524 bbls of Slickwater Report Date: 07/09/2012								
		Stage 2 : 10,256 - 10,415, 27 - 0.380" shots, 9524 bbls of Slickwater Report Date: 07/10/2012								
		Stage 6 : 8,564 - 9,719, 27 - 0.380" shots, 5857 bbls of Slickwater Report Date: 07/18/2012								
Stage 3		Stage 3 : 9,368 - 9,703, 27 - 0.380" shots, 8952 bbls of Slickwater Report Date: 07/11/2012								
		Stage 4 : 9,078 - 9,325, 27 - 0.380" shots, 8071 bbls of Slickwater Report Date: 07/13/2012								
	-9500 ft	Stage 5 : 8,830 - 9,029, 27 - 0.380" shots, 8286 bbls of Slickwater Report Date: 07/17/2012								
		Stage 7 : 8,300 - 8,521, 27 - 0.380" shots, 10174 bbls of Slickwater Report Date: 07/19/2012								
		Stage 8 : 8,020 - 8,255, 27 - 0.380" shots, 9524 bbls of Slickwater Report Date: 07/21/2012								
		Stage 9 : 7,808 - 7,991, 27 - 0.380" shots, 11048 bbls of Slickwater Report Date: 07/22/2012								
		<b>Comments</b>								
		SIBHP 0 psi 8/29/12 Total Fluid Recovered 28,522								
	-10000 ft									