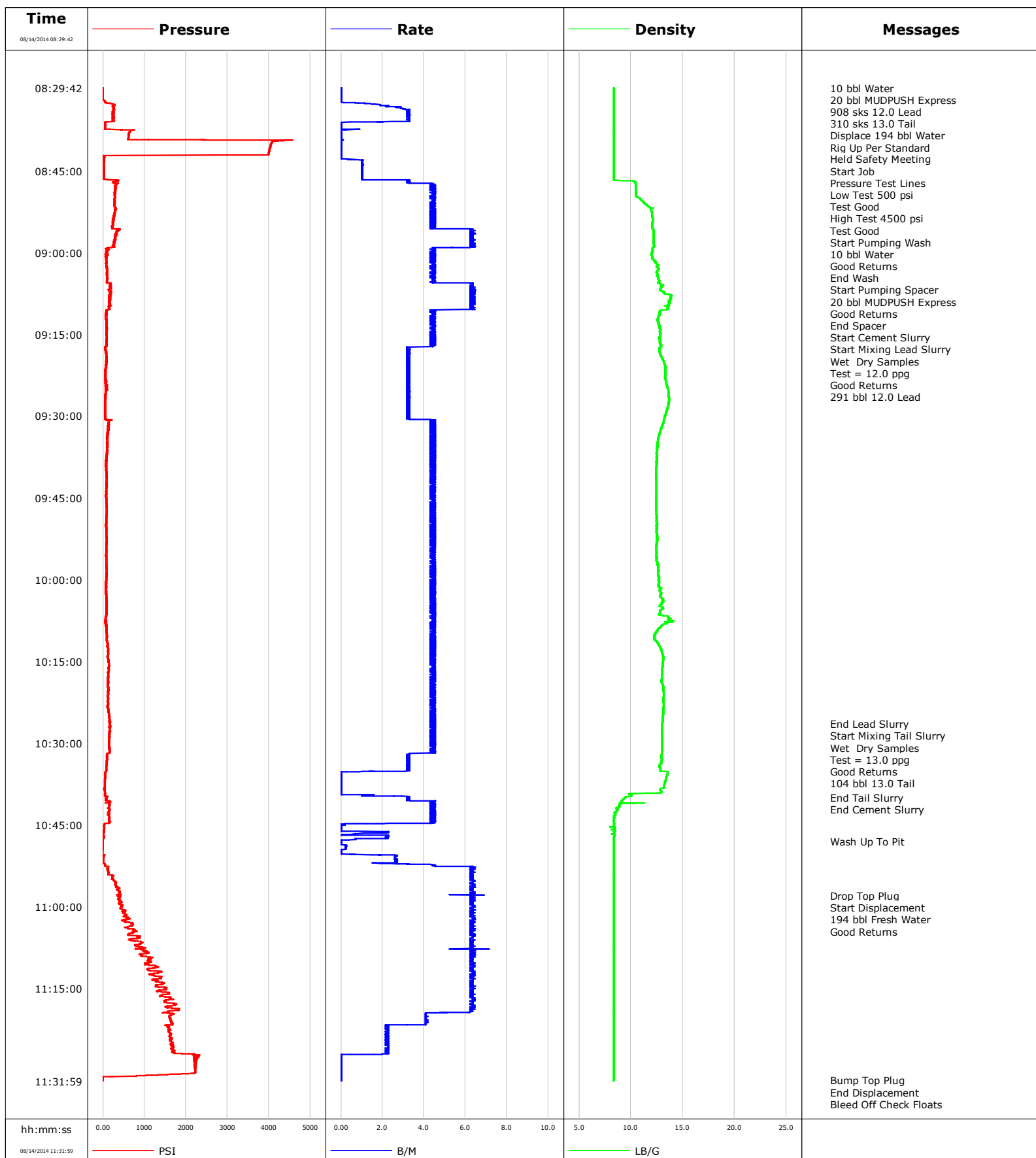


Well Blackcomb 12-14
Field Arikaree Creek
Engineer Jordan Moreland / Stacy Terry
Country United States

Client Nighthawk
SIR No. D0XZ-00125
Job Type 5 1/2 Production
Job Date 08-14-2014





Cementing Service Report

				Customer Nighthawk		Job Number D0XZ-00125		
Well Blackcomb 12-14			Location (legal)		Schlumberger Location CWY		Job Start Aug/14/2014	
Field Arikaree Creek		Formation Name/Type		Deviation	Bit Size 7.9 in	Well MD		Well TVD
County Lincoln		State/Province Colorado		BHP	BHST 199 degF	BHCT 169 degF	Pore Press. Gradient	
Well Master 0631530642		API/UWI						
Rig Name Xtreme 11	Drilled For Gas	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development	8443.0	5.500	17.0	n80	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 5 1/2 Production							
Max. Allowed Tub. Press 4500 psi	Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
							Diameter	
			Treat Down Casing	Displacement 194.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 196.0 bbl	Annular Vol. 262.0 bbl	Openhole Vol. 483.0 bbl		
Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>	Casing Tools						
		Squeeze Job						
Lift Pressure		Shoe Type Float	Squeeze Type					
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input checked="" type="checkbox"/>	Shoe Depth 8443.0 ft	Tool Type					
No. Centralizers	Top Plugs 1	Bottom Plugs	Stage Tool Type	Tool Depth				
Cement Head Type		Stage Tool Depth	Tail Pipe Size					
Job Scheduled For Aug/14/2014	Arrived on Location Aug/14/2014	Leave Location Aug/14/2014	Collar Type Float	Tail Pipe Depth				
			Collar Depth 8353.0 ft	Sqz. Total Vol.				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/14/2014	07:34:33					Started Acquisition		
08/14/2014	08:29:42					10 bbl Water		
08/14/2014	08:29:42					20 bbl MUDPUSH Express		
08/14/2014	08:29:42					908 sks 12.0 Lead		
08/14/2014	08:29:42					310 sks 13.0 Tail		
08/14/2014	08:29:42	-6	0.0	8.36	0.0			
08/14/2014	08:29:43					Displace 194 bbl Water		
08/14/2014	08:29:43					Rig Up Per Standard		
08/14/2014	08:29:43					Held Safety Meeting		
08/14/2014	08:29:43	-6	0.0	8.36	0.0			
08/14/2014	08:29:44					Start Job		
08/14/2014	08:29:44	-6	0.0	8.36	0.0			
08/14/2014	08:29:45					Pressure Test Lines		
08/14/2014	08:29:45	-5	0.0	8.36	0.0			
08/14/2014	08:29:47					Low Test 500 psi		
08/14/2014	08:29:47					Test Good		
08/14/2014	08:29:47					High Test 4500 psi		
08/14/2014	08:29:47					Test Good		
08/14/2014	08:29:47	-5	0.0	8.36	0.0			
08/14/2014	08:30:33	-6	0.0	8.36	0.0			
08/14/2014	08:32:33	105	0.9	8.36	0.1			

Well			Field		Job Start	Customer	Job Number
Blackcomb 12-14			Arikaree Creek		Aug/14/2014	Nighthawk	D0XZ-00125
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/14/2014	08:36:33	51	0.0	8.36	10.2		
08/14/2014	08:38:33	617	0.0	8.36	10.2		
08/14/2014	08:40:33	4032	0.0	8.35	10.2		
08/14/2014	08:42:00					Start Pumping Wash	
08/14/2014	08:42:00					10 bbl Water	
08/14/2014	08:42:00					Good Returns	
08/14/2014	08:42:00	3987	0.0	8.35	10.2		
08/14/2014	08:42:33	24	0.0	8.35	10.2		
08/14/2014	08:44:33	22	1.0	8.36	11.9		
08/14/2014	08:46:33	68	1.0	8.36	13.9		
08/14/2014	08:48:33	290	4.3	10.48	21.7		
08/14/2014	08:50:00					End Wash	
08/14/2014	08:50:00	287	4.5	10.84	28.2		
08/14/2014	08:50:30					Start Pumping Spacer	
08/14/2014	08:50:30	276	4.5	11.09	30.4		
08/14/2014	08:50:33	277	4.4	11.12	30.6		
08/14/2014	08:51:00					20 bbl MUDPUSH Express	
08/14/2014	08:51:00					Good Returns	
08/14/2014	08:51:00	284	4.4	11.33	32.6		
08/14/2014	08:52:33	286	4.5	12.00	39.5		
08/14/2014	08:54:33	245	4.4	12.09	48.4		
08/14/2014	08:56:33	295	6.4	12.19	58.9		
08/14/2014	08:58:00					End Spacer	
08/14/2014	08:58:00	284	6.4	12.17	68.1		
08/14/2014	08:58:33	245	6.2	12.24	71.6		
08/14/2014	09:00:00					Start Cement Slurry	
08/14/2014	09:00:00					Start Mixing Lead Slurry	
08/14/2014	09:00:00					Wet Dry Samples	
08/14/2014	09:00:00					Test = 12.0 ppg	
08/14/2014	09:00:00					Good Returns	
08/14/2014	09:00:00					291 bbl 12.0 Lead	
08/14/2014	09:00:00	91	4.3	11.96	79.0		
08/14/2014	09:00:33	88	4.5	12.01	81.4		
08/14/2014	09:02:33	82	4.5	12.51	90.3		
08/14/2014	09:04:33	102	4.5	12.59	99.2		
08/14/2014	09:06:33	201	6.2	12.87	110.0		
08/14/2014	09:08:33	145	6.2	13.85	122.6		
08/14/2014	09:10:33	82	4.5	12.88	135.1		
08/14/2014	09:12:33	74	4.4	12.56	144.0		
08/14/2014	09:14:33	88	4.5	12.85	152.9		
08/14/2014	09:16:33	82	4.5	12.81	161.8		
08/14/2014	09:18:33	72	3.3	12.79	169.1		
08/14/2014	09:20:33	71	3.3	13.27	175.6		
08/14/2014	09:22:33	51	3.3	13.29	182.1		
08/14/2014	09:24:33	66	3.3	13.48	188.6		
08/14/2014	09:26:33	59	3.2	13.67	195.1		
08/14/2014	09:28:33	48	3.3	13.52	201.6		
08/14/2014	09:30:33	61	3.3	13.19	208.1		
08/14/2014	09:32:33	114	4.5	12.85	216.9		
08/14/2014	09:34:33	101	4.3	12.59	225.8		
08/14/2014	09:36:33	101	4.4	12.49	234.7		
08/14/2014	09:38:33	82	4.4	12.49	243.5		
08/14/2014	09:40:33	84	4.3	12.42	252.4		
08/14/2014	09:42:33	88	4.5	12.44	261.3		

Well			Field		Job Start		Customer		Job Number	
Blackcomb 12-14			Arikaree Creek		Aug/14/2014		Nighthawk		D0XZ-00125	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/14/2014	09:46:33	83	4.4	12.44	279.1					
08/14/2014	09:48:33	80	4.3	12.48	288.0					
08/14/2014	09:50:33	76	4.3	12.49	296.9					
08/14/2014	09:52:33	84	4.5	12.57	305.8					
08/14/2014	09:54:33	79	4.4	12.44	314.6					
08/14/2014	09:56:33	77	4.4	12.46	323.5					
08/14/2014	09:58:33	91	4.5	12.66	332.4					
08/14/2014	10:00:33	79	4.5	12.71	341.3					
08/14/2014	10:02:33	76	4.3	12.91	350.2					
08/14/2014	10:04:33	83	4.5	12.87	359.1					
08/14/2014	10:06:33	72	4.5	13.00	368.0					
08/14/2014	10:08:33	85	4.4	12.92	376.9					
08/14/2014	10:10:33	91	4.3	12.26	385.8					
08/14/2014	10:12:33	113	4.5	12.85	394.7					
08/14/2014	10:14:33	123	4.5	13.11	403.6					
08/14/2014	10:16:33	143	4.4	13.03	412.5					
08/14/2014	10:18:33	127	4.5	12.91	421.4					
08/14/2014	10:20:33	121	4.4	13.14	430.3					
08/14/2014	10:22:33	119	4.5	13.15	439.1					
08/14/2014	10:24:33	139	4.5	13.11	448.0					
08/14/2014	10:26:28					End Lead Slurry				
08/14/2014	10:26:28	165	4.4	13.04	456.5					
08/14/2014	10:26:29					Start Mixing Tail Slurry				
08/14/2014	10:26:29	157	4.4	13.04	456.6					
08/14/2014	10:26:30					Wet Dry Samples				
08/14/2014	10:26:30					Test = 13.0 ppg				
08/14/2014	10:26:30					Good Returns				
08/14/2014	10:26:30					104 bbl 13.0 Tail				
08/14/2014	10:26:30	166	4.5	13.04	456.7					
08/14/2014	10:26:33	167	4.5	13.04	456.9					
08/14/2014	10:28:33	152	4.4	13.00	465.8					
08/14/2014	10:30:33	151	4.3	13.02	474.7					
08/14/2014	10:32:33	100	3.2	12.94	482.7					
08/14/2014	10:34:33	79	3.3	12.80	489.2					
08/14/2014	10:36:33	48	0.0	13.37	491.3					
08/14/2014	10:38:33	35	0.0	12.83	491.3					
08/14/2014	10:40:00					End Tail Slurry				
08/14/2014	10:40:00					End Cement Slurry				
08/14/2014	10:40:00	86	3.3	9.45	492.5					
08/14/2014	10:40:33	65	3.3	9.13	494.3					
08/14/2014	10:42:33	144	4.4	8.67	503.1					
08/14/2014	10:44:33	133	4.4	8.37	512.0					
08/14/2014	10:46:33	0	1.7	8.41	513.7					
08/14/2014	10:48:00					Wash Up To Pit				
08/14/2014	10:48:00	-11	0.0	8.36	515.5					
08/14/2014	10:48:33	-6	0.0	8.36	515.5					
08/14/2014	10:50:33	7	1.9	8.36	515.9					
08/14/2014	10:52:33	53	4.5	8.36	521.6					
08/14/2014	10:54:33	222	6.4	8.36	534.2					
08/14/2014	10:56:33	383	6.4	8.36	546.8					
08/14/2014	10:58:00					Drop Top Plug				
08/14/2014	10:58:00					Start Displacement				
08/14/2014	10:58:00	397	6.2	8.36	555.9					
08/14/2014	10:58:33	364	6.2	8.36	559.4					

Well			Field		Job Start		Customer		Job Number	
Blackcomb 12-14			Arikaree Creek		Aug/14/2014		Nighthawk		D0XZ-00125	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/14/2014	11:00:00					Good Returns				
08/14/2014	11:00:00	462	6.4	8.36	568.6					
08/14/2014	11:00:33	478	6.4	8.36	572.1					
08/14/2014	11:02:33	475	6.2	8.36	584.7					
08/14/2014	11:04:33	758	6.2	8.36	597.3					
08/14/2014	11:06:33	928	6.4	8.36	610.0					
08/14/2014	11:08:33	1100	6.2	8.36	622.6					
08/14/2014	11:10:33	1058	6.4	8.36	635.2					
08/14/2014	11:12:33	1197	6.4	8.36	647.8					
08/14/2014	11:14:33	1295	6.2	8.36	660.4					
08/14/2014	11:16:33	1495	6.4	8.36	673.1					
08/14/2014	11:18:33	1545	6.4	8.36	685.7					
08/14/2014	11:20:33	1613	4.1	8.36	695.9					
08/14/2014	11:22:33	1596	2.3	8.36	702.4					
08/14/2014	11:24:33	1628	2.2	8.36	706.9					
08/14/2014	11:26:33	1700	2.2	8.36	711.3					
08/14/2014	11:28:33	2236	0.0	8.36	712.6					
08/14/2014	11:30:33	2212	0.0	8.36	712.6					
08/14/2014	11:31:49					Bump Top Plug				
08/14/2014	11:31:49	-11	0.0	8.36	712.6					
08/14/2014	11:31:50					End Displacement				
08/14/2014	11:31:50	-10	0.0	8.36	712.6					
08/14/2014	11:31:51					Bleed Off Check Floats				
08/14/2014	11:31:51					Floats Held				
08/14/2014	11:31:51	-10	0.0	8.36	712.6					
08/14/2014	11:31:52					2 bbl Back				
08/14/2014	11:31:52					30 bbl Cement To Surface				
08/14/2014	11:31:52					Rig Down				
08/14/2014	11:31:52	-10	0.0	8.36	712.6					
08/14/2014	11:31:54					End Job				
08/14/2014	11:31:54	-8	0.0	8.36	712.6					

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
Avg. N2 Percent		Designed Slurry Volume		Displacement	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume
						Washed Thru Perfs <input type="checkbox"/>		To
Customer or Authorized Representative Jim Weir			Schlumberger Supervisor Jordan Moreland / Stacy Terry			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-