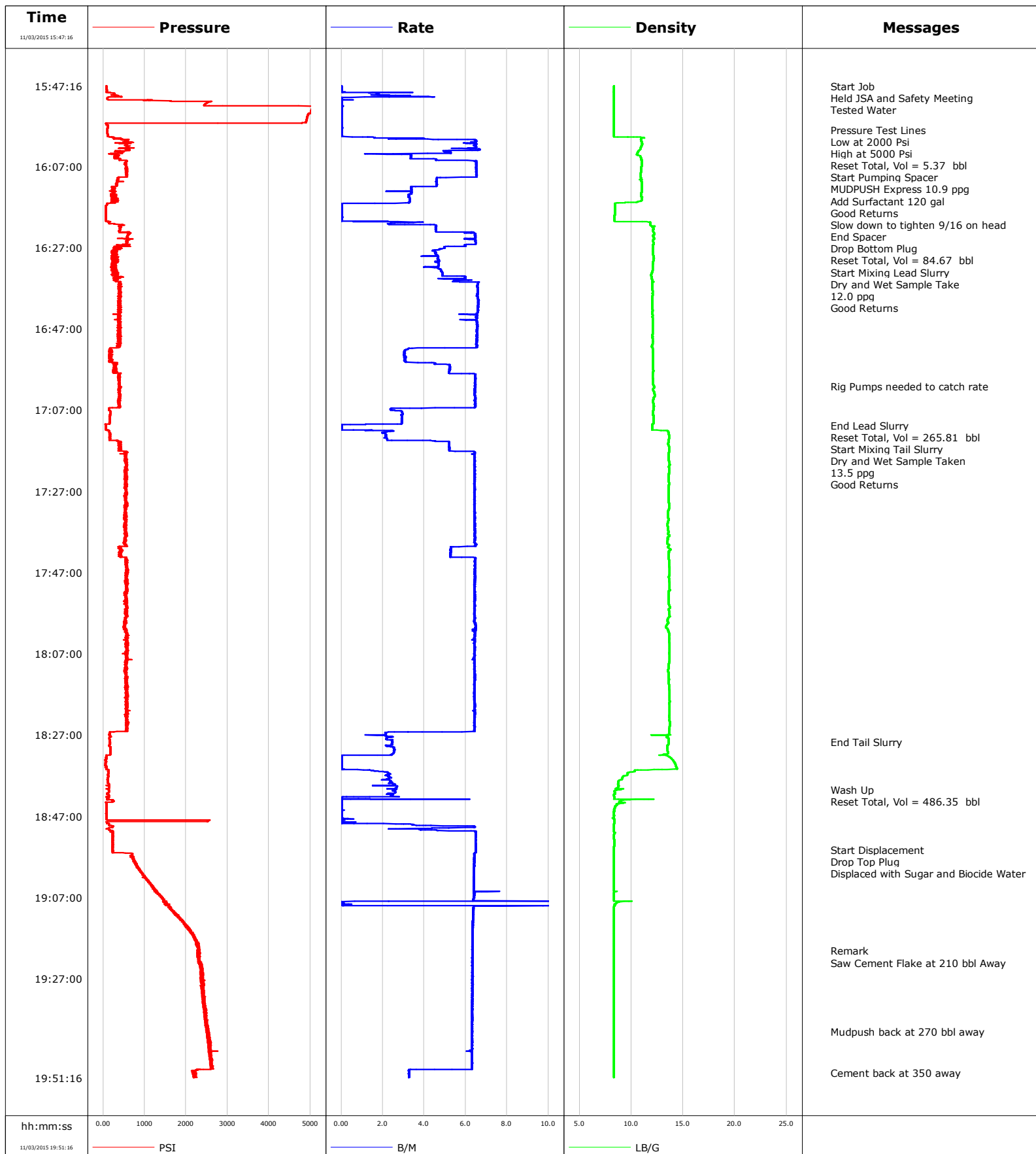


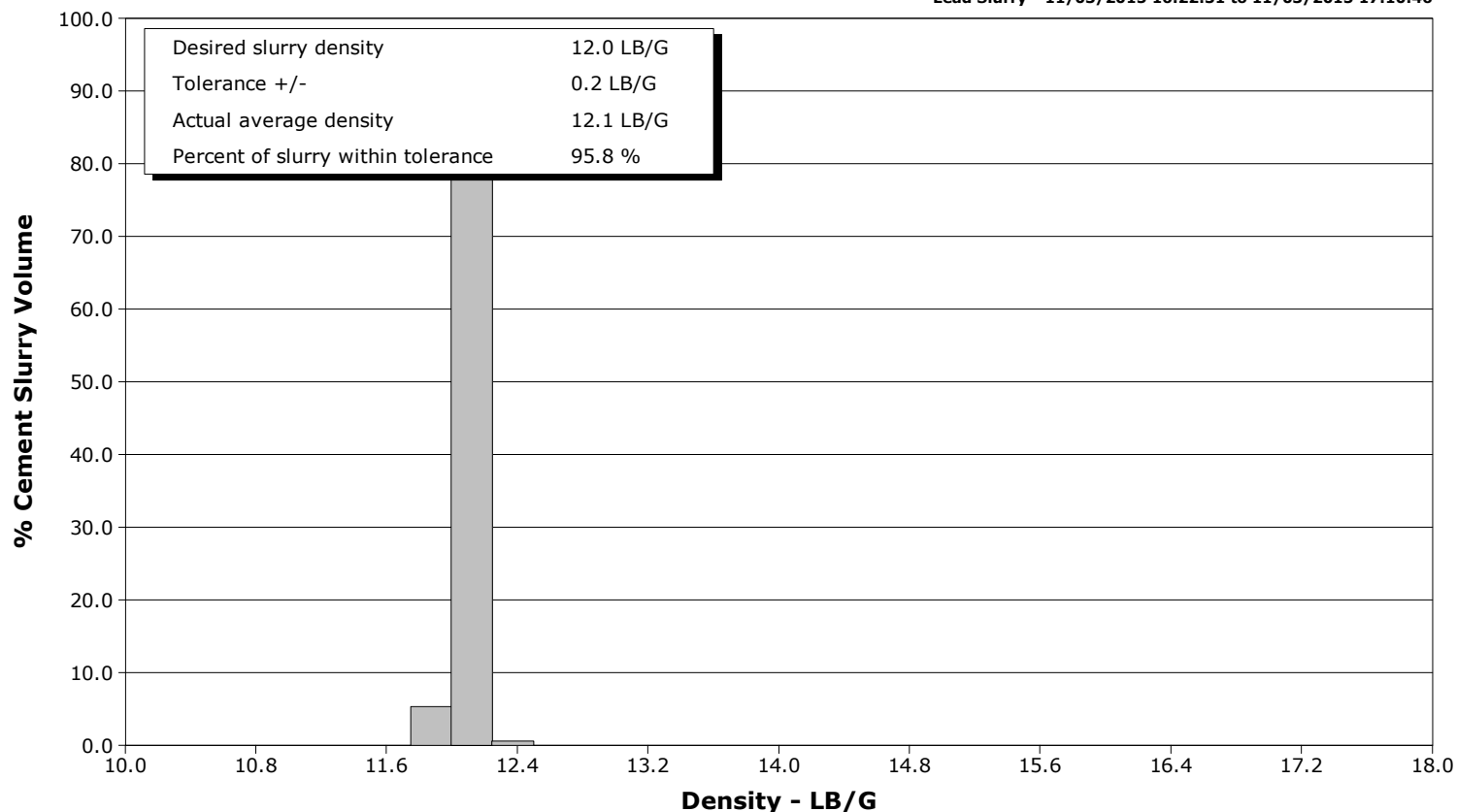
<b>Well</b>	Wilson Ranch 33C-27HZ	<b>Client</b>	Anadarko
<b>Field</b>	Wattenberg	<b>SIR No.</b>	D2IK-01437
<b>Engineer</b>	Kara Cash	<b>Job Type</b>	Monobore
<b>Country</b>	United States	<b>Job Date</b>	11-03-2015



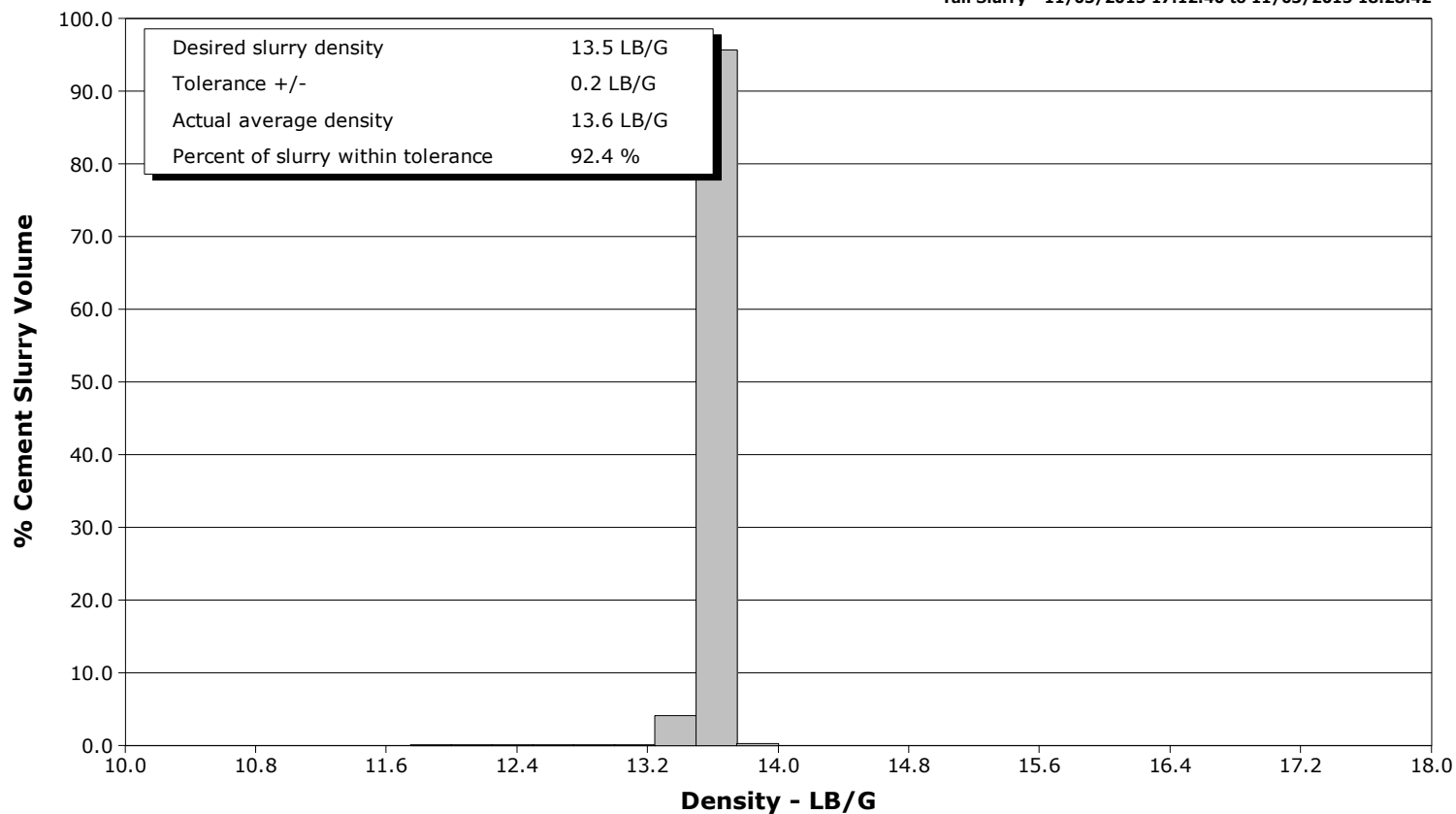
**Well** Wilson Ranch 33C-27HZ  
**Field** Wattenberg  
**Engineer** Kara Cash  
**Country** United States

**Client** Anadarko  
**SIR No.** D2IK-01437  
**Job Type** Monobore  
**Job Date** 11-03-2015

Lead Slurry - 11/03/2015 16:22:31 to 11/03/2015 17:10:46



Tail Slurry - 11/03/2015 17:12:40 to 11/03/2015 18:28:42



# Cementing Service Report

				Customer Anadarko			Job Number D2IK-01437				
Well Wilson Ranch 33C-27HZ 0631620719			Location (legal) 2173			Schlumberger Location Jeff Eulberg			Job Start Nov/03/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 16968.0 ft		Well TVD 1704.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 229 degF		BHCT 229 degF		Pore Press. Gradient lb/gal	
Well Master Cheyenne, WY		API/UWI 05123410520000									
Rig Name Precision 460		Drilled For Oil & Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class Old		Well Type Development		16968.0		5.5		17.0	
						1858.0		9.6		36.0	
										P-110	
										J-55	
										VAM	
										LTC	
Drilling Fluid Type LT OBM		Max. Density 10.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type Monobore									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 5 1/2" Double Plug		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 392.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 393.6 bbl		Annular Vol. 89.0 bbl	
										Openhole Vol. 616.7 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 12160 psi						Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 16968.0 ft		Tool Type			
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type		Tool Depth ft			
Cement Head Type Double						Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Nov/03/2015 11:00		Arrived on Location Nov/03/2015 11:00		Leave Location Nov/03/2015 21:00		Collar Type Float		Tail Pipe Depth ft			
						Collar Depth 16899.0 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
11/03/2015	15:47:16	81	0.0	0.00	0.0	Started Acquisition					
11/03/2015	15:47:20	80	0.0	0.00	0.0	Start Job					
11/03/2015	15:47:23	80	0.0	0.00	0.0	Held JSA and Safety Meeting					
11/03/2015	15:48:56	144	3.3	0.00	0.2						
11/03/2015	15:50:36	107	0.0	0.00	3.0						
11/03/2015	15:52:16	5133	0.1	0.00	3.0						
11/03/2015	15:53:56	5001	0.0	0.00	3.1						
11/03/2015	15:55:36	4902	0.0	0.00	3.1						
11/03/2015	15:57:16	113	0.0	0.00	3.1						
11/03/2015	15:57:59	103	0.0	0.00	3.1	Pressure Test Lines					
11/03/2015	15:58:06	104	0.0	0.00	3.1	Low at 2000 Psi					
11/03/2015	15:58:56	107	0.0	0.00	3.1						
11/03/2015	16:00:34	567	6.5	0.00	5.4	Reset Total, Vol = 5.37 bbl					
11/03/2015	16:00:36	466	6.5	0.00	0.2						
11/03/2015	16:00:39	592	6.5	0.00	0.5	Start Pumping Spacer					
11/03/2015	16:00:55	529	6.5	0.00	2.3	MUDPUSH Express 10.9 ppq					
11/03/2015	16:01:00	532	6.5	0.00	2.8	Add Surfactant 120 gal					
11/03/2015	16:02:16	605	6.5	0.00	10.9						
11/03/2015	16:03:56	185	4.2	0.00	20.7						
11/03/2015	16:05:36	446	4.7	0.00	26.5						
11/03/2015	16:07:16	564	6.5	10.98	37.3						

Well Wilson Ranch 33C-27HZ 0631620719			Field Wattenberg		Job Start Nov/03/2015		Customer Anadarko		Job Number D2IK-01437	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
11/03/2015	16:09:14	557		6.5	10.92		50.1		Slow down to tighten 9/16 on head	
11/03/2015	16:10:36	358		4.6	10.96		57.5			
11/03/2015	16:12:16	213		3.4	11.01		64.8			
11/03/2015	16:13:56	270		3.3	10.97		70.3			
11/03/2015	16:15:36	356		3.3	10.95		75.8			
11/03/2015	16:16:09	154		2.1	8.52		77.6		End Spacer	
11/03/2015	16:16:12	115		0.8	8.45		77.6		Drop Bottom Plug	
11/03/2015	16:17:16	70		0.0	8.42		77.7			
11/03/2015	16:18:56	68		0.0	8.40		77.7			
11/03/2015	16:20:36	129		0.7	8.38		77.8			
11/03/2015	16:22:16	412		4.6	12.11		83.8			
11/03/2015	16:22:28	406		4.6	12.16		84.7		Reset Total, Vol = 84.67 bbl	
11/03/2015	16:22:31	409		4.6	12.16		0.2		Start Mixing Lead Slurry	
11/03/2015	16:22:49	401		4.6	12.05		1.6		Dry and Wet Sample Take	
11/03/2015	16:22:51	380		4.6	12.06		1.7		12.0 ppg	
11/03/2015	16:23:56	594		6.5	12.19		7.9			
11/03/2015	16:25:36	565		6.5	12.12		18.6			
11/03/2015	16:27:16	383		5.0	12.09		28.4			
11/03/2015	16:28:56	327		4.6	12.11		36.1			
11/03/2015	16:30:36	229		4.6	12.11		43.8			
11/03/2015	16:32:16	226		4.7	12.05		51.4			
11/03/2015	16:33:56	260		4.9	11.93		59.5			
11/03/2015	16:35:36	379		6.6	12.02		69.1			
11/03/2015	16:37:16	365		6.6	12.02		80.0			
11/03/2015	16:38:56	376		6.5	12.03		91.0			
11/03/2015	16:40:36	367		6.6	12.00		102.0			
11/03/2015	16:42:16	438		6.6	12.02		112.9			
11/03/2015	16:43:56	418		6.5	12.04		123.8			
11/03/2015	16:45:36	418		6.5	12.05		134.6			
11/03/2015	16:47:16	376		6.5	12.06		145.6			
11/03/2015	16:48:56	341		6.5	12.04		156.5			
11/03/2015	16:50:36	366		6.5	12.07		167.4			
11/03/2015	16:52:16	150		3.1	12.08		176.5			
11/03/2015	16:53:56	147		3.1	12.11		181.6			
11/03/2015	16:55:36	243		4.5	12.12		187.1			
11/03/2015	16:57:16	316		5.2	12.13		195.6			
11/03/2015	16:58:56	382		6.4	12.08		205.4			
11/03/2015	17:00:36	384		6.5	12.10		216.2			
11/03/2015	17:01:07	391		6.4	12.17		219.5		Rig Pumps needed to catch rate	
11/03/2015	17:02:16	394		6.4	12.12		226.9			
11/03/2015	17:05:36	369		6.4	12.13		248.4			
11/03/2015	17:07:16	170		2.9	12.08		256.2			
11/03/2015	17:08:56	160		2.9	12.15		261.1			
11/03/2015	17:10:36	73		0.1	12.02		265.8			
11/03/2015	17:10:46	68		0.0	12.02		265.8		End Lead Slurry	
11/03/2015	17:10:50	69		0.0	12.02		265.8		Reset Total, Vol = 265.81 bbl	
11/03/2015	17:12:16	144		2.4	13.54		266.5			
11/03/2015	17:12:40	150		2.0	13.59		267.3		Start Mixing Tail Slurry	
11/03/2015	17:13:05	167		2.2	13.61		268.2		Dry and Wet Sample Taken	
11/03/2015	17:13:06	172		2.2	13.61		268.2		13.5 ppg	
11/03/2015	17:13:56	158		2.1	13.62		270.0			
11/03/2015	17:15:36	380		5.2	13.57		276.8			
11/03/2015	17:17:16	559		6.4	13.63		285.6			
11/03/2015	17:18:56	559		6.4	13.59		296.3			

Well Wilson Ranch 33C-27HZ 0631620719			Field Wattenberg		Job Start Nov/03/2015		Customer Anadarko		Job Number D2IK-01437	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
11/03/2015	17:22:16	572		6.4	13.62		317.8			
11/03/2015	17:23:56	564		6.4	13.61		328.5			
11/03/2015	17:25:36	535		6.4	13.61		339.2			
11/03/2015	17:27:16	567		6.4	13.59		349.9			
11/03/2015	17:28:56	545		6.4	13.59		360.6			
11/03/2015	17:30:36	591		6.4	13.63		371.4			
11/03/2015	17:32:16	511		6.4	13.54		382.1			
11/03/2015	17:33:56	548		6.4	13.57		392.8			
11/03/2015	17:35:36	528		6.4	13.49		403.5			
11/03/2015	17:37:16	539		6.4	13.57		414.3			
11/03/2015	17:38:56	552		6.4	13.53		425.0			
11/03/2015	17:40:36	389		6.5	13.57		435.8			
11/03/2015	17:42:16	391		5.3	13.61		444.6			
11/03/2015	17:43:56	535		6.5	13.63		454.2			
11/03/2015	17:45:36	565		6.5	13.66		464.9			
11/03/2015	17:47:16	569		6.4	13.70		475.7			
11/03/2015	17:48:56	548		6.4	13.65		486.4			
11/03/2015	17:50:36	557		6.4	13.69		497.1			
11/03/2015	17:52:16	548		6.4	13.58		507.8			
11/03/2015	17:53:56	524		6.4	13.60		518.6			
11/03/2015	17:55:36	595		6.4	13.73		529.3			
11/03/2015	17:57:16	565		6.4	13.65		540.0			
11/03/2015	17:58:56	562		6.4	13.52		550.7			
11/03/2015	18:00:36	544		6.5	13.36		561.5			
11/03/2015	18:02:16	566		6.5	13.67		572.2			
11/03/2015	18:03:56	565		6.4	13.65		582.9			
11/03/2015	18:05:36	551		6.4	13.69		593.7			
11/03/2015	18:07:16	573		6.4	13.67		604.4			
11/03/2015	18:08:56	572		6.4	13.66		615.1			
11/03/2015	18:10:36	550		6.4	13.58		625.8			
11/03/2015	18:12:16	563		6.4	13.58		636.5			
11/03/2015	18:13:56	528		6.4	13.58		647.2			
11/03/2015	18:15:36	559		6.4	13.66		657.9			
11/03/2015	18:17:16	570		6.4	13.67		668.6			
11/03/2015	18:18:56	583		6.4	13.68		679.3			
11/03/2015	18:20:36	581		6.4	13.68		690.1			
11/03/2015	18:22:16	598		6.4	13.66		700.8			
11/03/2015	18:23:56	601		6.4	13.72		711.5			
11/03/2015	18:25:36	581		6.4	13.66		722.2			
11/03/2015	18:27:16	163		2.2	13.55		728.3			
11/03/2015	18:28:42	166		2.5	13.58		731.6	End Tail Slurry		
11/03/2015	18:28:56	168		2.5	13.58		732.2			
11/03/2015	18:30:36	180		2.6	13.50		736.3			
11/03/2015	18:32:16	80		0.0	13.60		739.6			
11/03/2015	18:33:56	53		0.0	14.20		739.6			
11/03/2015	18:35:36	123		1.4	10.63		739.7			
11/03/2015	18:37:16	121		2.3	9.19		743.2			
11/03/2015	18:38:56	125		2.5	8.75		747.1			
11/03/2015	18:40:18	136		2.6	8.92		750.6	Wash Up		
11/03/2015	18:40:36	133		2.5	8.51		751.4			
11/03/2015	18:40:54	132		2.6	8.39		752.1	Reset Total, Vol = 486.35 bbl		
11/03/2015	18:42:16	94		0.0	8.37		3.1			
11/03/2015	18:43:56	73		0.0	8.65		3.4			
11/03/2015	18:45:36	74		0.0	8.38		3.4			

Well Wilson Ranch 33C-27HZ 0631620719			Field Wattenberg		Job Start Nov/03/2015		Customer Anadarko		Job Number D2IK-01437	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
11/03/2015	18:48:56	137		3.4	8.35		4.1			
11/03/2015	18:50:36	231		6.5	8.34		12.0			
11/03/2015	18:52:16	233		6.5	8.35		22.8			
11/03/2015	18:53:56	237		6.5	8.36		33.6			
11/03/2015	18:55:11	229		6.5	8.35		41.7		Start Displacement	
11/03/2015	18:55:13	225		6.5	8.35		41.9		Drop Top Plug	
11/03/2015	18:55:36	226		6.5	8.35		44.4			
11/03/2015	18:57:16	732		6.4	8.35		55.1			
11/03/2015	18:58:56	813		6.4	8.34		65.8			
11/03/2015	19:00:00	863		6.4	8.34		72.6		Displaced with Sugar and Biocide Water	
11/03/2015	19:00:36	918		6.4	8.34		76.4			
11/03/2015	19:02:16	1046		6.4	8.34		87.1			
11/03/2015	19:03:56	1153		6.4	8.34		97.8			
11/03/2015	19:05:36	1279		6.4	8.37		108.5			
11/03/2015	19:07:16	1422		6.4	8.34		119.1			
11/03/2015	19:08:56	1582		6.6	8.36		130.0			
11/03/2015	19:10:36	1697		6.4	8.34		140.6			
11/03/2015	19:12:16	1834		6.3	8.34		151.2			
11/03/2015	19:13:56	2022		6.3	8.34		161.8			
11/03/2015	19:15:36	2170		6.3	8.34		172.4			
11/03/2015	19:17:16	2249		6.3	8.34		182.9			
11/03/2015	19:18:56	2302		6.3	8.34		193.5			
11/03/2015	19:20:00	2318		6.3	8.34		200.2		Remark	
11/03/2015	19:20:36	2289		6.3	8.34		204.0			
11/03/2015	19:22:16	2300		6.3	8.34		214.5			
11/03/2015	19:23:56	2376		6.3	8.34		225.1			
11/03/2015	19:25:36	2395		6.3	8.34		235.6			
11/03/2015	19:27:16	2369		6.3	8.34		246.1			
11/03/2015	19:28:56	2365		6.3	8.34		256.7			
11/03/2015	19:30:36	2426		6.3	8.34		267.2			
11/03/2015	19:32:16	2394		6.3	8.34		277.7			
11/03/2015	19:33:56	2440		6.3	8.34		288.3			
11/03/2015	19:35:36	2461		6.3	8.34		298.8			
11/03/2015	19:37:16	2466		6.3	8.34		309.3			
11/03/2015	19:38:56	2530		6.3	8.34		319.8			
11/03/2015	19:40:00	2536		6.3	8.34		326.6		Mudpush back at 270 bbl away	
11/03/2015	19:40:36	2510		6.3	8.34		330.4			
11/03/2015	19:42:16	2593		6.3	8.34		340.9			
11/03/2015	19:43:56	2571		6.3	8.34		351.4			
11/03/2015	19:45:36	2570		6.3	8.34		361.9			
11/03/2015	19:47:16	2620		6.3	8.34		372.4			
11/03/2015	19:48:56	2608		6.3	8.34		382.9			
11/03/2015	19:50:00	2150		3.3	8.34		387.4		Cement back at 350 away	

<b>Well</b> Wilson Ranch 33C-27HZ 0631620719	<b>Field</b> Wattenberg	<b>Job Start</b> Nov/03/2015	<b>Customer</b> Anadarko	<b>Job Number</b> D2IK-01437
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.2	N2	Mud	Maximum Rate 7.6		Total Slurry 740.0	Mud 0.0	Spacer 79.5	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 5133	Final 2187	Average 847	Bump Plug to 4500	Breakdown	Type FreshWater		Volume 392.0 bbl		Density 8.34 lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 733.0 bbl	Displacement 391.5 bbl	Mix Water Temp 62 degF	Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume 50.0 bbl		
					Washed Thru Perfs		<input type="checkbox"/>	To ft		
Customer or Authorized Representative Company Representative			Schlumberger Supervisor Kara Cash			Circulation Lost		<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
						-			-	