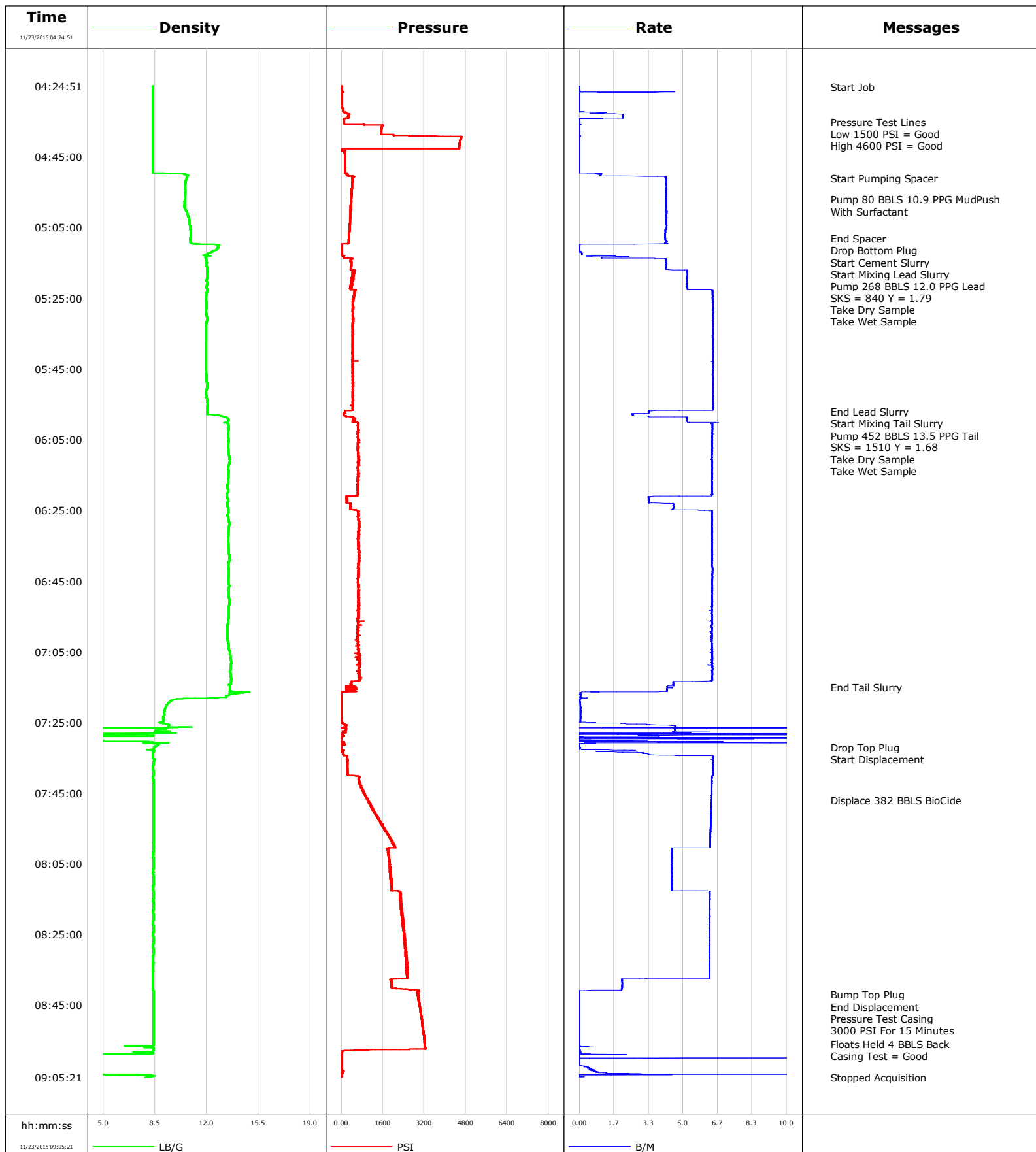


**Well** Wilson Ranch 32N-N27HZ  
**Field** Wattenberg  
**Engineer** Conley Jensen/ Greg Black  
**Country**

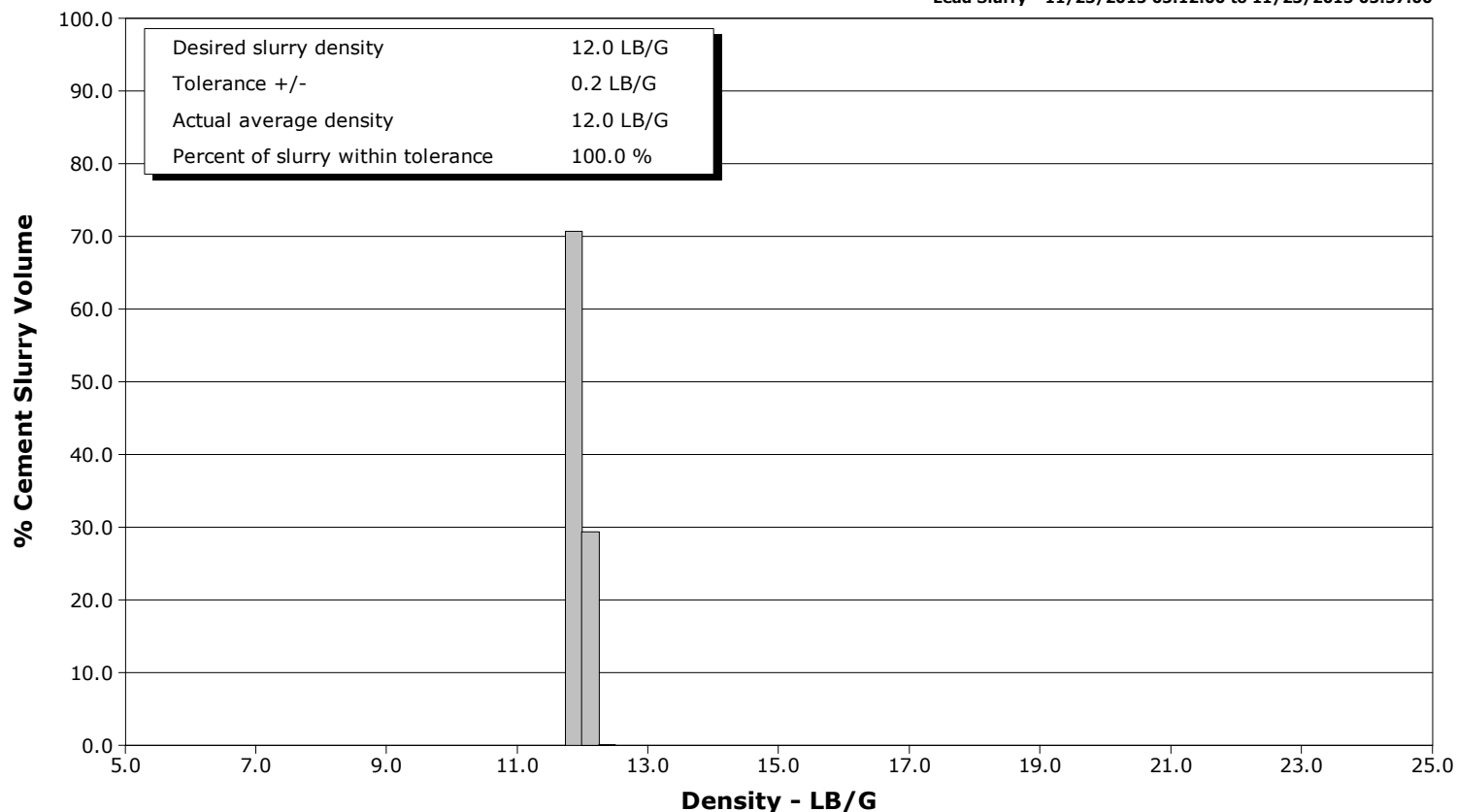
**Client** Anadarko  
**SIR No.** 2172147  
**Job Type** 5.5" Monobore  
**Job Date**



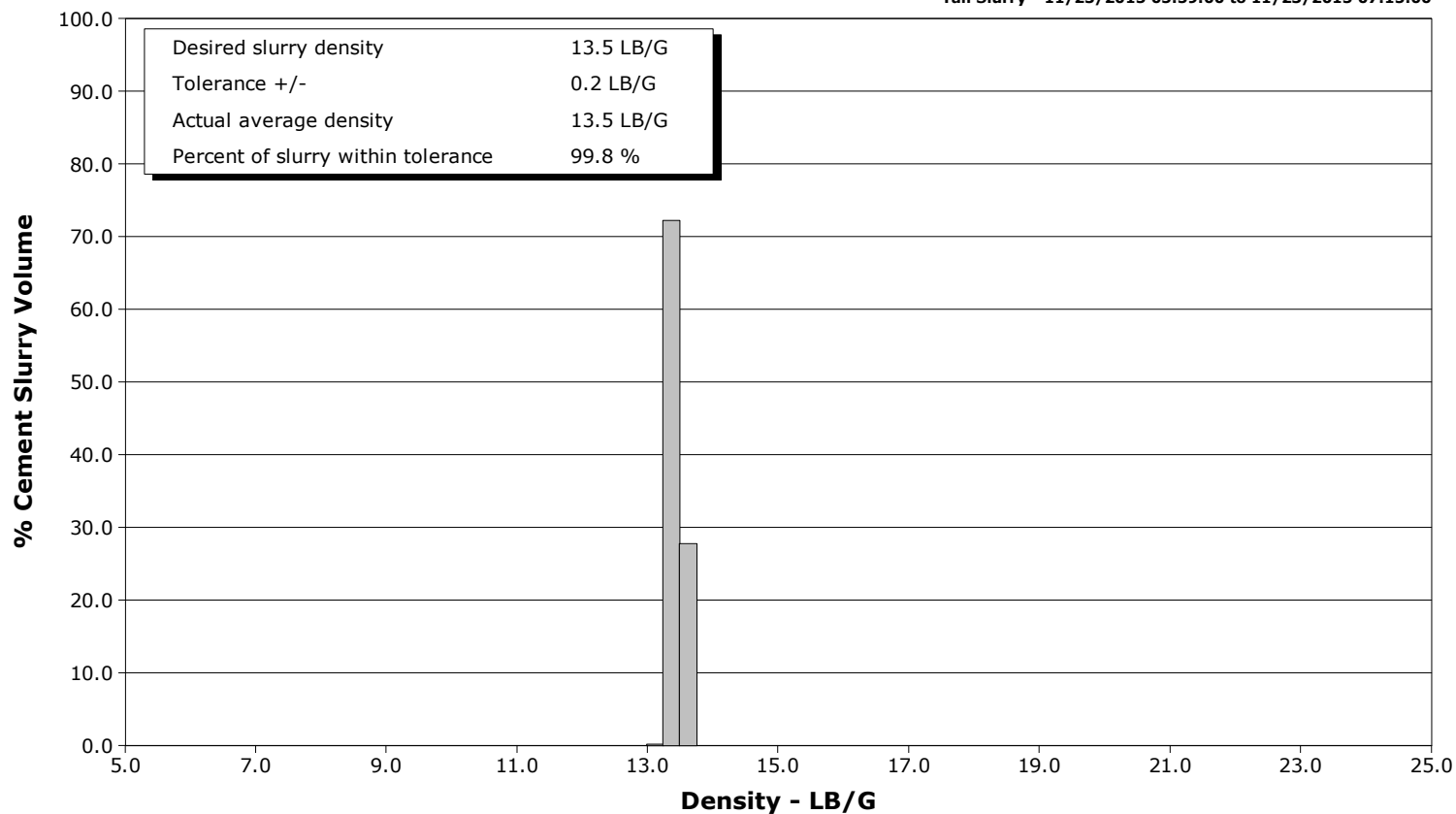
**Well** Wilson Ranch 32N-N27HZ  
**Field** Wattenberg  
**Engineer** Conley Jensen/ Greg Black  
**Country**

**Client** Anadarko  
**SIR No.** 2172147  
**Job Type** 5.5" Monobore  
**Job Date**

Lead Slurry - 11/23/2015 05:12:00 to 11/23/2015 05:57:00



Tail Slurry - 11/23/2015 05:59:00 to 11/23/2015 07:15:00



# Cementing Service Report

				Customer Anadarko				Job Number 2172147			
Well Wilson Ranch 32N-N27HZ 32N-N27HZ			Location (legal) CWY			Schlumberger Location CWY			Job Start Nov/23/2015		
Field Watttenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 16536.0 ft		Well TVD 7138.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 231 degF		BHCT 230 degF		Pore Press. Gradient lb/gal	
Well Master 0631629514		API/UWI 0512341299000									
Rig Name Precision 462		Drilled For Oil		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		1836.0		9.6		36.0	
						16536.0		5.5		17.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 5.5" Monobore									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 382.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 384.0 bbl		Annular Vol. 686.0 bbl	
										Openhole Vol. 1083.0 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 psi						Shoe Type Float				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 16504.0 ft				Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft	
Cement Head Type Single						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Nov/22/2015 23:00		Arrived on Location Nov/22/2015 23:00		Leave Location Nov/23/2015 10:00		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 16415.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
11/23/2015	04:24:51	8	0.0	8.38	0.0	Started Acquisition					
11/23/2015	04:25:00	8	0.0	8.38	0.0	Start Job					
11/23/2015	04:26:21	4	0.0	8.38	0.0						
11/23/2015	04:27:51	12	0.0	8.37	0.8						
11/23/2015	04:29:21	12	0.0	8.37	0.8						
11/23/2015	04:30:51	13	0.0	8.38	0.8						
11/23/2015	04:32:21	128	0.3	8.37	0.0						
11/23/2015	04:33:51	255	2.1	8.37	2.6						
11/23/2015	04:35:00	105	0.0	8.37	3.2	Pressure Test Lines					
11/23/2015	04:35:21	104	0.0	8.37	3.2						
11/23/2015	04:36:00	1584	0.1	8.37	3.2	Low 1500 PSI = Good					
11/23/2015	04:36:51	1556	0.0	8.38	3.2						
11/23/2015	04:38:21	1530	0.0	8.37	3.2						
11/23/2015	04:39:00	2622	0.0	8.37	3.2	High 4600 PSI = Good					
11/23/2015	04:39:51	4605	0.0	8.37	3.2						
11/23/2015	04:41:21	4598	0.0	8.37	0.0						
11/23/2015	04:42:51	12	0.0	8.37	0.0						
11/23/2015	04:44:21	139	0.0	8.37	0.0						
11/23/2015	04:45:51	146	0.0	8.37	0.0						
11/23/2015	04:47:21	145	0.0	8.37	0.0						
11/23/2015	04:48:51	145	0.0	8.37	0.0						

Well			Field	Job Start		Customer	Job Number
Wilson Ranch 32N-N27HZ 32N-N27HZ			Watttenberg	Nov/23/2015		Anadarko	2172147
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/23/2015	04:51:00	425	4.2	10.64	3.1	Start Pumping Spacer	
11/23/2015	04:51:51	412	4.2	10.58	6.7		
11/23/2015	04:53:21	398	4.2	10.52	13.0		
11/23/2015	04:54:51	390	4.2	10.53	19.2		
11/23/2015	04:56:21	389	4.2	10.52	25.5		
11/23/2015	04:57:00	368	4.2	10.51	28.3	Pump 80 BBLS 10.9 PPG MudPush	
11/23/2015	04:57:51	376	4.2	10.51	31.8		
11/23/2015	04:59:21	366	4.2	10.51	38.1		
11/23/2015	05:00:51	346	4.2	10.67	44.4		
11/23/2015	05:02:21	331	4.2	10.78	50.7		
11/23/2015	05:03:51	328	4.2	10.84	57.0		
11/23/2015	05:05:21	310	4.2	10.89	63.3		
11/23/2015	05:06:51	298	4.1	10.91	69.5		
11/23/2015	05:08:00	290	4.1	10.88	74.2	End Spacer	
11/23/2015	05:08:21	281	4.1	10.88	75.7		
11/23/2015	05:09:00	285	4.2	10.90	78.4	Drop Bottom Plug	
11/23/2015	05:09:51	21	0.0	12.82	0.0		
11/23/2015	05:11:21	18	0.0	12.63	0.0		
11/23/2015	05:12:00	18	0.1	12.30	0.0	Start Cement Slurry	
11/23/2015	05:12:51	49	1.1	11.85	0.1		
11/23/2015	05:14:21	360	4.2	11.94	4.0		
11/23/2015	05:15:00	372	4.2	12.00	6.7	Pump 268 BBLS 12.0 PPG Lead	
11/23/2015	05:15:51	361	4.2	11.99	10.3		
11/23/2015	05:17:00	461	5.1	12.02	15.1	SKS = 840 Y = 1.79	
11/23/2015	05:17:21	509	5.2	12.02	16.9		
11/23/2015	05:18:00	483	5.2	12.02	20.3	Take Dry Sample	
11/23/2015	05:18:51	440	5.2	12.03	24.7		
11/23/2015	05:20:21	345	5.2	12.00	32.5		
11/23/2015	05:21:51	322	5.2	11.97	40.3		
11/23/2015	05:23:21	499	6.4	11.99	49.0		
11/23/2015	05:24:51	467	6.4	11.94	58.6		
11/23/2015	05:26:21	430	6.4	11.99	68.3		
11/23/2015	05:27:51	426	6.4	11.97	77.9		
11/23/2015	05:29:21	386	6.4	11.96	87.6		
11/23/2015	05:30:00	427	6.4	11.99	91.8	Take Wet Sample	
11/23/2015	05:30:51	449	6.4	12.01	97.2		
11/23/2015	05:32:21	449	6.5	11.97	106.9		
11/23/2015	05:33:51	439	6.4	11.95	116.6		
11/23/2015	05:35:21	455	6.4	11.95	126.2		
11/23/2015	05:36:51	454	6.5	11.94	135.9		
11/23/2015	05:38:21	441	6.4	11.92	145.5		
11/23/2015	05:39:51	431	6.4	11.92	155.2		
11/23/2015	05:41:21	430	6.4	11.93	164.8		
11/23/2015	05:42:51	453	6.4	11.90	174.5		
11/23/2015	05:44:21	446	6.4	11.92	184.1		
11/23/2015	05:45:51	440	6.4	11.95	193.8		
11/23/2015	05:47:21	428	6.4	11.98	203.4		
11/23/2015	05:48:51	445	6.4	12.00	213.1		
11/23/2015	05:50:21	459	6.4	12.02	222.7		
11/23/2015	05:51:51	458	6.4	11.95	232.4		
11/23/2015	05:53:21	434	6.4	12.00	242.0		
11/23/2015	05:56:21	454	6.4	12.03	261.4		
11/23/2015	05:57:00	168	3.3	12.02	264.8	End Lead Slurry	
11/23/2015	05:57:51	120	2.6	12.05	267.5		

Well			Field		Job Start	Customer	Job Number
Wilson Ranch 32N-N27HZ 32N-N27HZ			Wattttenberg		Nov/23/2015	Anadarko	2172147
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/23/2015	05:59:21	436	5.2	13.47	273.7		
11/23/2015	06:00:00	441	5.2	13.42	277.1	Pump 452 BBLS 13.5 PPG Tail	
11/23/2015	06:00:51	638	6.4	13.46	2.5		
11/23/2015	06:02:21	675	6.4	13.46	12.1		
11/23/2015	06:03:51	650	6.4	13.42	21.7		
11/23/2015	06:05:00	644	6.4	13.46	29.1	SKS = 1510 Y = 1.68	
11/23/2015	06:05:21	659	6.4	13.48	31.3		
11/23/2015	06:06:51	645	6.4	13.44	40.9		
11/23/2015	06:07:00	639	6.4	13.44	41.8	Take Dry Sample	
11/23/2015	06:08:21	632	6.4	13.46	50.5		
11/23/2015	06:09:51	678	6.4	13.51	60.1		
11/23/2015	06:10:00	666	6.4	13.52	61.0	Take Wet Sample	
11/23/2015	06:11:21	686	6.4	13.54	69.6		
11/23/2015	06:12:51	657	6.4	13.43	79.2		
11/23/2015	06:14:21	643	6.4	13.45	88.8		
11/23/2015	06:15:51	643	6.4	13.45	98.4		
11/23/2015	06:17:21	625	6.4	13.41	108.0		
11/23/2015	06:18:51	637	6.4	13.41	117.6		
11/23/2015	06:20:21	631	6.4	13.37	127.2		
11/23/2015	06:21:51	229	3.3	13.42	134.1		
11/23/2015	06:23:21	386	4.5	13.39	139.5		
11/23/2015	06:24:51	521	5.1	13.46	146.3		
11/23/2015	06:26:21	635	6.4	13.40	155.8		
11/23/2015	06:27:51	677	6.4	13.48	165.3		
11/23/2015	06:29:21	673	6.4	13.51	174.9		
11/23/2015	06:30:51	679	6.4	13.47	184.5		
11/23/2015	06:32:21	671	6.4	13.45	194.1		
11/23/2015	06:33:51	644	6.4	13.43	203.7		
11/23/2015	06:35:21	662	6.4	13.46	213.3		
11/23/2015	06:36:51	694	6.4	13.50	222.9		
11/23/2015	06:38:21	687	6.4	13.52	232.5		
11/23/2015	06:39:51	654	6.4	13.46	242.1		
11/23/2015	06:41:21	654	6.4	13.47	251.7		
11/23/2015	06:42:51	692	6.4	13.50	261.3		
11/23/2015	06:44:21	691	6.4	13.45	270.9		
11/23/2015	06:45:51	674	6.4	13.48	280.5		
11/23/2015	06:47:21	651	6.4	13.49	290.1		
11/23/2015	06:48:51	674	6.4	13.48	299.7		
11/23/2015	06:50:21	680	6.4	13.52	309.3		
11/23/2015	06:51:51	676	6.4	13.51	318.9		
11/23/2015	06:53:21	688	6.4	13.49	328.5		
11/23/2015	06:54:51	661	6.4	13.49	338.1		
11/23/2015	06:56:21	740	6.3	13.43	347.7		
11/23/2015	06:57:51	654	6.4	13.40	357.2		
11/23/2015	06:59:21	648	6.3	13.40	366.8		
11/23/2015	07:00:51	650	6.4	13.38	376.4		
11/23/2015	07:02:21	672	6.4	13.43	386.0		
11/23/2015	07:03:51	667	6.4	13.49	395.5		
11/23/2015	07:05:21	701	6.3	13.55	405.1		
11/23/2015	07:06:51	702	6.4	13.60	414.7		
11/23/2015	07:08:21	679	6.4	13.64	424.3		
11/23/2015	07:09:51	667	6.4	13.59	433.9		
11/23/2015	07:11:21	706	6.4	13.62	443.5		
11/23/2015	07:12:51	712	6.4	13.64	453.1		

Well			Field	Job Start		Customer	Job Number
Wilson Ranch 32N-N27HZ 32N-N27HZ			Watttenberg	Nov/23/2015		Anadarko	2172147
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/23/2015	07:15:00	214	4.2	13.55	463.8	End Tail Slurry	
11/23/2015	07:15:51	594	4.2	13.57	467.5		
11/23/2015	07:17:21	31	0.1	13.38	0.0		
11/23/2015	07:18:51	31	0.0	9.58	0.0		
11/23/2015	07:20:21	31	0.0	9.27	0.1		
11/23/2015	07:21:51	32	0.1	9.13	0.0		
11/23/2015	07:23:21	32	0.1	9.06	0.1		
11/23/2015	07:24:51	32	0.0	9.07	0.0		
11/23/2015	07:26:21	175	1.6	10.45	4.3		
11/23/2015	07:27:51	197	4.6	8.47	11.5		
11/23/2015	07:29:21	38	2.3	2.94	17.8		
11/23/2015	07:30:51	66	0.2	8.42	23.1		
11/23/2015	07:32:00	28	0.0	8.45	0.0	Drop Top Plug	
11/23/2015	07:32:21	28	0.0	8.40	0.0		
11/23/2015	07:33:51	92	3.1	8.37	2.4		
11/23/2015	07:35:21	256	6.5	8.49	10.5		
11/23/2015	07:36:51	252	6.5	8.39	20.2		
11/23/2015	07:38:21	249	6.4	8.37	29.8		
11/23/2015	07:39:51	256	6.4	8.39	39.5		
11/23/2015	07:41:21	696	6.4	8.38	49.1		
11/23/2015	07:42:51	774	6.4	8.39	58.7		
11/23/2015	07:44:21	887	6.4	8.39	68.2		
11/23/2015	07:45:51	972	6.4	8.39	77.8		
11/23/2015	07:47:00	1047	6.4	8.39	85.1	Displace 382 BBLs BioCide	
11/23/2015	07:47:21	1086	6.4	8.39	87.3		
11/23/2015	07:48:51	1191	6.4	8.39	96.9		
11/23/2015	07:50:21	1316	6.3	8.39	106.4		
11/23/2015	07:51:51	1398	6.3	8.39	115.9		
11/23/2015	07:53:21	1531	6.3	8.39	125.4		
11/23/2015	07:54:51	1667	6.3	8.39	134.9		
11/23/2015	07:56:21	1804	6.3	8.39	144.4		
11/23/2015	07:57:51	1899	6.3	8.39	153.9		
11/23/2015	07:59:21	2029	6.3	8.38	163.3		
11/23/2015	08:00:51	1798	4.4	8.39	172.1		
11/23/2015	08:02:21	1843	4.5	8.38	178.8		
11/23/2015	08:03:51	1874	4.4	8.39	185.5		
11/23/2015	08:05:21	1912	4.4	8.39	192.1		
11/23/2015	08:06:51	1910	4.5	8.38	198.8		
11/23/2015	08:08:21	1910	4.5	8.39	205.5		
11/23/2015	08:09:51	1953	4.5	8.39	212.2		
11/23/2015	08:11:21	1991	4.4	8.38	218.8		
11/23/2015	08:12:51	2294	6.3	8.39	225.8		
11/23/2015	08:14:21	2319	6.3	8.39	235.2		
11/23/2015	08:15:51	2331	6.3	8.38	244.6		
11/23/2015	08:17:21	2368	6.3	8.39	254.1		
11/23/2015	08:18:51	2356	6.3	8.38	263.5		
11/23/2015	08:20:21	2362	6.3	8.39	272.9		
11/23/2015	08:21:51	2409	6.3	8.38	282.3		
11/23/2015	08:23:21	2445	6.3	8.39	291.7		
11/23/2015	08:24:51	2433	6.3	8.38	301.1		
11/23/2015	08:26:21	2473	6.3	8.39	310.5		
11/23/2015	08:27:51	2512	6.3	8.38	320.0		
11/23/2015	08:29:21	2498	6.3	8.39	329.4		
11/23/2015	08:30:51	2508	6.3	8.38	338.8		

Well			Field		Job Start	Customer		Job Number
Wilson Ranch 32N-N27HZ 32N-N27HZ			Watttenberg		Nov/23/2015	Anadarko		2172147
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/23/2015	08:33:51	2571	6.3	8.38	357.6			
11/23/2015	08:35:21	2561	6.3	8.38	367.0			
11/23/2015	08:36:51	2553	6.3	8.38	376.4			
11/23/2015	08:38:21	1958	2.0	8.38	382.2			
11/23/2015	08:39:51	1997	2.0	8.38	385.2			
11/23/2015	08:41:21	2980	0.0	8.38	387.3			
11/23/2015	08:42:00	2984	0.0	8.38	387.3	Bump Top Plug		
11/23/2015	08:42:51	3003	0.0	8.39	387.3			
11/23/2015	08:44:21	3042	0.0	8.39	387.3			
11/23/2015	08:45:51	3081	0.0	8.39	387.3			
11/23/2015	08:47:21	3110	0.0	8.39	387.3			
11/23/2015	08:48:51	3138	0.0	8.39	387.3			
11/23/2015	08:50:21	3164	0.0	8.39	387.3			
11/23/2015	08:51:51	3191	0.0	8.39	387.4			
11/23/2015	08:53:21	3214	0.0	8.39	387.4			
11/23/2015	08:54:51	3238	0.0	8.39	387.4			
11/23/2015	08:56:00	3256	0.0	8.39	387.4	Floats Held 4 BBLS Back		
11/23/2015	08:56:21	3260	0.0	8.39	387.4			
11/23/2015	08:57:51	363	0.0	8.38	387.5			
11/23/2015	08:59:21	24	0.0	0.12	387.6			
11/23/2015	09:00:51	25	0.0	0.08	388.5			
11/23/2015	09:02:21	23	0.2	0.08	388.5			
11/23/2015	09:03:51	76	0.8	0.08	389.3			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry 720.0	Mud	Spacer 80.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final 0	Average	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 720.0 bbl		Displacement 382.0 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume	32.0 bbl			
					Washed Thru Perfs <input type="checkbox"/>		To	ft			
Customer or Authorized Representative Rodney			Schlumberger Supervisor Conley Jensen/ Greg Black			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				



<b>Service Order #:</b>	
<b>Date:</b>	Nov/23/2015
<b>Operating Time (hh:mm):</b>	00:00
<b>Client Rep:</b>	Rodney
<b>Schlumberger Engineer:</b>	Conley Jensen/ Greg Black
<b>Schlumberger FSM:</b>	

**To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.**

2	Design / Preparation						
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
Sub-total							0%

3	Execution						
3a	Lost time < 30 mins	3	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3b	Equipment pressure tested succesfully	3	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3d	Plugs / darts released and tested succesfully	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3e	Density variation met expectations	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3f	Personnel performed as per expectations	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3g	Equipment performed as per expectations	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3h	Job pumped as per design	3	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3i	Did job start on time	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
Sub-total							0%

<b>4</b>	<b>Evaluation</b>					
4a	Main job objective achieved with no consequential non-productive time	10	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		0
					Sub-total	0%

<b>Total</b>	0%
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**Comments:** (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

<b>Client:</b>	<b>Schlumberger:</b>
<b>Client Signature:</b>	<b>Schlumberger Signature:</b>