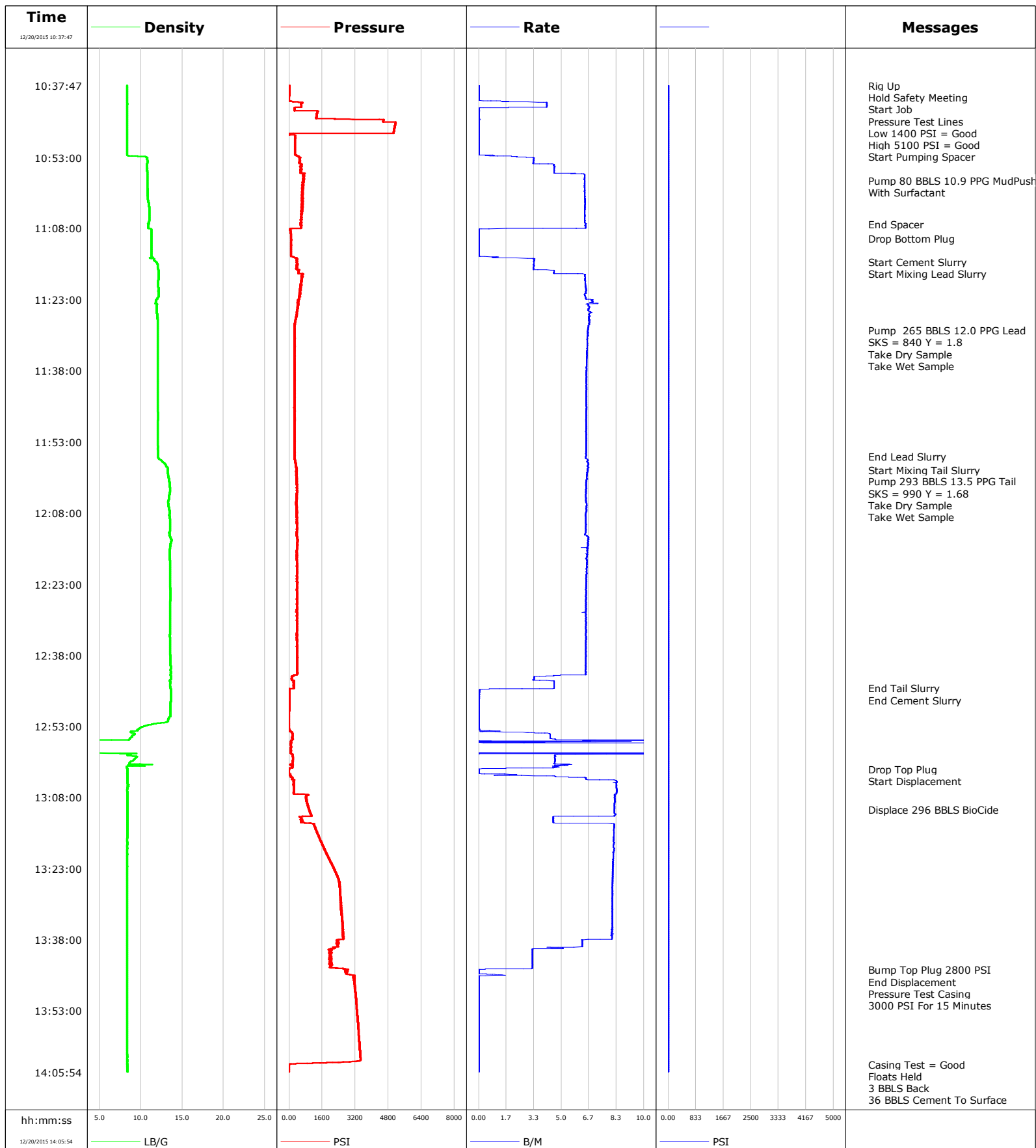


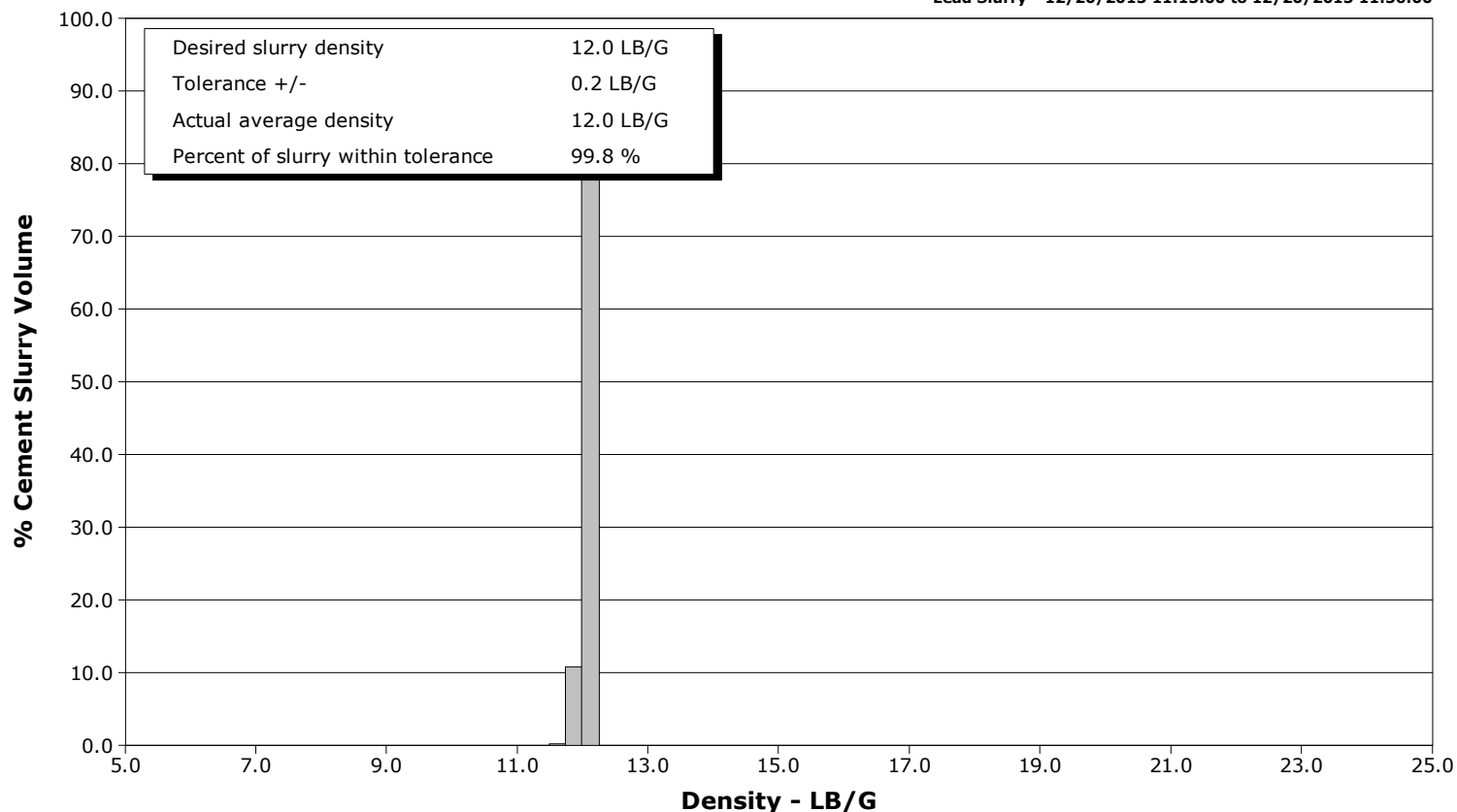
<b>Well</b>	Alvin 27G-29HZ	<b>Client</b>	Anadarko
<b>Field</b>	Wattenberg	<b>SIR No.</b>	2229321
<b>Engineer</b>	Conley Jensen/ Taylor Baird	<b>Job Type</b>	5.5" Monobore
<b>Country</b>	United States	<b>Job Date</b>	12-20-2015



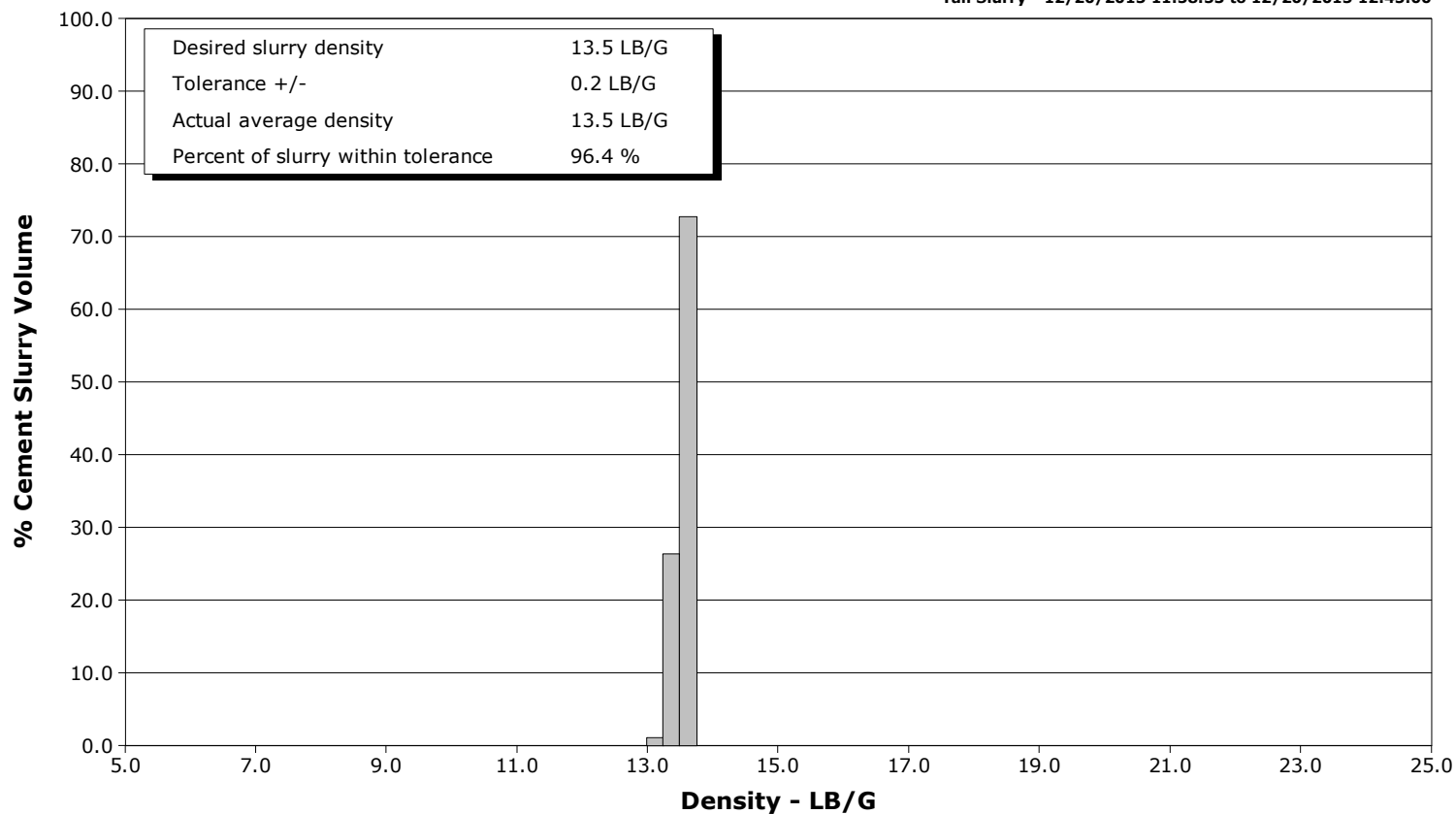
**Well** Alvin 27G-29HZ  
**Field** Wattenberg  
**Engineer** Conley Jensen/ Taylor Baird  
**Country** United States

**Client** Anadarko  
**SIR No.** 2229321  
**Job Type** 5.5" Monobore  
**Job Date** 12-20-2015

Lead Slurry - 12/20/2015 11:15:00 to 12/20/2015 11:56:00



Tail Slurry - 12/20/2015 11:58:53 to 12/20/2015 12:45:00



# Cementing Service Report

				Customer Anadarko				Job Number 2229321			
Well Alvin 27G-29HZ 27G-29HZ			Location (legal) CWY			Schlumberger Location CWY			Job Start Dec/20/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 12822.0 ft		Well TVD 7115.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 231 degF		BHCT 226 degF		Pore Press. Gradient lb/gal	
Well Master 063166045		API/UWI 05123422090000									
Rig Name Xtreme 24		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		1920.0		9.6		36.0	
						12822.0		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 Double Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft		No. of Shots	
						ft		ft		Total Interval	
						ft		ft		Diameter	
						ft		ft		in	
						Treat Down Casing		Displacement 296.0 bbl		Packer Type	
										Packer Depth	
						Tubing Vol. bbl		Casing Vol. 298.0 bbl		Annular Vol. 537.0 bbl	
										Openhole Vol. 849.0 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 12822.0 ft				Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft	
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Dec/20/2015 05:00		Arrived on Location Dec/20/2015 05:00		Leave Location Dec/20/2015 17:00		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 12730.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
12/20/2015	10:37:47	9	0.0	8.35	196.4	Started Acquisition					
12/20/2015	10:37:49	9	0.0	8.35	0.0	Start Job					
12/20/2015	10:39:17	6	0.0	8.35	0.0						
12/20/2015	10:40:00	8	0.0	8.35	0.0	Pressure Test Lines					
12/20/2015	10:40:47	4	0.0	8.35	0.0						
12/20/2015	10:42:17	580	4.1	8.34	4.4						
12/20/2015	10:43:00	261	0.0	8.35	5.2	Low 1400 PSI = Good					
12/20/2015	10:43:47	1350	0.0	8.35	5.2						
12/20/2015	10:45:00	4396	0.1	8.35	5.2	High 5100 PSI = Good					
12/20/2015	10:45:17	4567	0.0	8.35	5.3						
12/20/2015	10:46:47	5116	0.0	8.35	5.3						
12/20/2015	10:48:17	294	0.0	8.35	5.3						
12/20/2015	10:49:47	276	0.0	8.35	5.3						
12/20/2015	10:51:17	277	0.0	8.35	5.3						
12/20/2015	10:52:00	276	0.0	8.35	5.3	Start Pumping Spacer					
12/20/2015	10:52:47	484	2.3	10.31	0.3						
12/20/2015	10:54:17	498	3.3	10.75	5.1						
12/20/2015	10:55:47	592	4.6	10.75	11.9						
12/20/2015	10:57:17	708	6.4	10.79	20.4						
12/20/2015	10:57:50	658	6.4	10.78	23.9	Pump 80 BBLs 10.9 PPG MudPush					
12/20/2015	10:58:47	679	6.4	10.80	30.0						

Well			Field	Job Start		Customer	Job Number
Alvin 27G-29HZ 27G-29HZ			Wattenberg	Dec/20/2015		Anadarko	2229321
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
12/20/2015	11:01:47	673	6.4	10.85	49.3		
12/20/2015	11:03:17	633	6.4	10.98	59.0		
12/20/2015	11:04:47	601	6.4	11.03	68.6		
12/20/2015	11:06:17	571	6.4	11.02	78.3		
12/20/2015	11:07:00	591	6.4	10.95	82.9	End Spacer	
12/20/2015	11:07:47	559	6.5	10.92	88.0		
12/20/2015	11:09:17	87	0.0	11.28	0.0		
12/20/2015	11:10:00	97	0.0	11.28	0.0	Drop Bottom Plug	
12/20/2015	11:10:47	94	0.0	11.27	0.0		
12/20/2015	11:12:17	92	0.0	11.27	0.0		
12/20/2015	11:13:47	93	0.0	11.24	0.0		
12/20/2015	11:15:00	364	3.3	11.83	2.9	Start Cement Slurry	
12/20/2015	11:15:17	375	3.3	11.95	3.9		
12/20/2015	11:16:47	474	4.5	12.13	8.9		
12/20/2015	11:18:17	630	6.5	12.15	17.2		
12/20/2015	11:19:47	597	6.5	12.10	26.9		
12/20/2015	11:21:17	500	6.5	12.13	36.6		
12/20/2015	11:22:47	500	6.5	11.98	46.3		
12/20/2015	11:24:17	427	6.6	11.91	56.5		
12/20/2015	11:25:47	397	6.8	11.91	66.5		
12/20/2015	11:27:17	306	6.7	12.04	76.6		
12/20/2015	11:28:47	268	6.7	12.06	86.6		
12/20/2015	11:29:29	264	6.6	12.06	91.2	Pump 265 BBLS 12.0 PPG Lead	
12/20/2015	11:29:30	263	6.6	12.06	91.3	SKS = 840 Y = 1.8	
12/20/2015	11:30:02	257	6.6	12.04	94.9	Take Wet Sample	
12/20/2015	11:30:17	254	6.6	12.04	96.5		
12/20/2015	11:31:47	253	6.6	12.05	106.4		
12/20/2015	11:33:17	266	6.5	12.04	116.3		
12/20/2015	11:34:47	275	6.6	12.04	126.1		
12/20/2015	11:36:17	264	6.5	12.03	135.9		
12/20/2015	11:37:47	261	6.5	12.04	145.7		
12/20/2015	11:39:17	263	6.5	12.03	155.5		
12/20/2015	11:40:47	262	6.5	12.03	165.3		
12/20/2015	11:42:17	268	6.5	12.04	175.1		
12/20/2015	11:43:47	268	6.5	12.04	184.9		
12/20/2015	11:45:17	261	6.5	12.04	194.6		
12/20/2015	11:46:47	258	6.5	12.07	204.4		
12/20/2015	11:48:17	271	6.5	12.07	214.2		
12/20/2015	11:49:47	269	6.5	12.06	224.0		
12/20/2015	11:51:17	270	6.5	12.04	233.7		
12/20/2015	11:52:47	254	6.5	12.06	243.5		
12/20/2015	11:54:17	247	6.5	12.06	253.3		
12/20/2015	11:55:47	267	6.5	12.12	263.1		
12/20/2015	11:56:00	264	6.5	12.11	264.5	End Lead Slurry	
12/20/2015	11:57:17	310	6.6	12.69	272.9		
12/20/2015	11:58:47	363	6.6	13.26	7.4		
12/20/2015	11:58:53	352	6.6	13.26	8.0	Start Mixing Tail Slurry	
12/20/2015	11:59:01	375	6.6	13.24	8.9	Pump 293 BBLS 13.5 PPG Tail	
12/20/2015	11:59:02	361	6.6	13.23	9.0	SKS = 990 Y = 1.68	
12/20/2015	11:59:22	371	6.6	13.24	11.2	Take Dry Sample	
12/20/2015	12:00:17	357	6.5	13.35	17.2		
12/20/2015	12:01:47	367	6.5	13.47	27.1		
12/20/2015	12:03:17	401	6.5	13.53	36.8		
12/20/2015	12:04:47	385	6.5	13.39	46.6		

Well			Field	Job Start		Customer	Job Number
Alvin 27G-29HZ 27G-29HZ			Wattenberg	Dec/20/2015		Anadarko	2229321
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
12/20/2015	12:06:17	354	6.5	13.34	56.3		
12/20/2015	12:07:47	385	6.5	13.46	66.1		
12/20/2015	12:09:17	397	6.5	13.51	75.9		
12/20/2015	12:10:47	384	6.5	13.54	85.6		
12/20/2015	12:12:17	379	6.5	13.45	95.3		
12/20/2015	12:13:47	417	6.6	13.71	105.2		
12/20/2015	12:15:17	380	6.5	13.53	115.1		
12/20/2015	12:16:47	374	6.5	13.48	124.9		
12/20/2015	12:18:17	379	6.6	13.53	134.8		
12/20/2015	12:19:47	411	6.5	13.56	144.6		
12/20/2015	12:21:17	389	6.5	13.55	154.4		
12/20/2015	12:22:47	398	6.5	13.56	164.2		
12/20/2015	12:24:17	381	6.5	13.56	173.9		
12/20/2015	12:25:47	380	6.5	13.57	183.7		
12/20/2015	12:27:17	373	6.5	13.55	193.4		
12/20/2015	12:28:47	388	6.5	13.55	203.2		
12/20/2015	12:30:17	383	6.5	13.54	212.9		
12/20/2015	12:31:47	373	6.5	13.54	222.7		
12/20/2015	12:33:17	382	6.5	13.53	232.4		
12/20/2015	12:34:47	395	6.5	13.54	242.2		
12/20/2015	12:36:17	379	6.5	13.55	251.9		
12/20/2015	12:37:47	403	6.5	13.56	261.7		
12/20/2015	12:39:17	383	6.5	13.61	271.4		
12/20/2015	12:40:47	411	6.5	13.63	281.1		
12/20/2015	12:42:17	217	4.5	13.62	290.7		
12/20/2015	12:43:47	223	4.6	13.57	296.4		
12/20/2015	12:45:00	186	4.6	13.57	301.9	End Tail Slurry	
12/20/2015	12:45:01	186	4.5	13.58	302.0	End Cement Slurry	
12/20/2015	12:45:17	13	0.0	13.64	302.3		
12/20/2015	12:46:47	15	0.0	13.63	302.4		
12/20/2015	12:48:17	16	0.0	13.62	302.4		
12/20/2015	12:49:47	4	0.0	13.62	302.5		
12/20/2015	12:51:17	3	0.0	13.38	302.5		
12/20/2015	12:52:47	3	0.0	10.79	302.5		
12/20/2015	12:54:17	131	3.0	8.83	303.0		
12/20/2015	12:55:47	175	4.6	8.65	1.7		
12/20/2015	12:57:17	96	25.0	3.36	24.5		
12/20/2015	12:58:47	100	0.0	7.87	58.2		
12/20/2015	13:00:17	159	4.6	8.95	66.5		
12/20/2015	13:01:47	55	3.9	8.32	73.6		
12/20/2015	13:02:00	13	0.0	8.35	73.9	Drop Top Plug	
12/20/2015	13:03:17	29	1.0	8.36	0.5		
12/20/2015	13:04:47	226	8.4	8.36	10.0		
12/20/2015	13:06:17	226	8.4	8.34	22.6		
12/20/2015	13:07:47	837	8.2	8.40	35.1		
12/20/2015	13:09:17	874	8.2	8.36	47.4		
12/20/2015	13:10:31	966	8.2	8.36	57.6	Displace 296 BBLs BioCide	
12/20/2015	13:10:47	981	8.2	8.36	59.8		
12/20/2015	13:12:17	605	4.5	8.36	71.0		
12/20/2015	13:13:47	1219	8.2	8.37	79.1		
12/20/2015	13:15:17	1354	8.2	8.36	91.4		
12/20/2015	13:16:47	1497	8.2	8.35	103.6		
12/20/2015	13:18:17	1647	8.2	8.35	115.9		
12/20/2015	13:19:47	1817	8.2	8.35	128.2		

Well			Field	Job Start	Customer	Job Number
Alvin 27G-29HZ 27G-29HZ			Wattenberg	Dec/20/2015	Anadarko	2229321
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/20/2015	13:22:47	2144	8.1	8.35	152.6	
12/20/2015	13:24:17	2316	8.1	8.35	164.8	
12/20/2015	13:25:47	2442	8.1	8.35	177.0	
12/20/2015	13:27:17	2455	8.1	8.35	189.1	
12/20/2015	13:28:47	2500	8.1	8.35	201.3	
12/20/2015	13:30:17	2506	8.1	8.35	213.4	
12/20/2015	13:31:47	2527	8.1	8.35	225.6	
12/20/2015	13:33:17	2578	8.1	8.35	237.7	
12/20/2015	13:34:47	2595	8.1	8.35	249.9	
12/20/2015	13:36:17	2588	8.1	8.35	262.0	
12/20/2015	13:37:47	2636	8.1	8.35	274.1	
12/20/2015	13:39:17	2355	6.3	8.35	283.8	
12/20/2015	13:40:47	1941	3.3	8.34	290.1	
12/20/2015	13:42:17	2041	3.3	8.34	295.0	
12/20/2015	13:43:47	2061	3.3	8.34	299.9	
12/20/2015	13:44:23	2823	0.0	8.34	301.2	Bump Top Plug 2800 PSI
12/20/2015	13:45:17	2860	0.7	8.34	301.2	
12/20/2015	13:45:35	3121	0.1	8.35	301.6	Pressure Test Casing
12/20/2015	13:46:47	3185	0.0	8.34	301.6	
12/20/2015	13:48:17	3204	0.0	8.35	301.6	
12/20/2015	13:49:47	3234	0.0	8.35	301.6	
12/20/2015	13:51:17	3268	0.0	8.35	301.6	
12/20/2015	13:52:47	3295	0.0	8.35	301.6	
12/20/2015	13:54:17	3322	0.0	8.35	301.7	
12/20/2015	13:55:47	3347	0.0	8.35	301.7	
12/20/2015	13:57:17	3377	0.0	8.35	301.7	
12/20/2015	13:58:47	3397	0.0	8.35	301.7	
12/20/2015	14:00:17	3423	0.0	8.35	301.7	
12/20/2015	14:01:47	3448	0.0	8.35	301.7	
12/20/2015	14:03:17	3474	0.0	8.35	301.8	
12/20/2015	14:04:16	27	0.0	8.35	301.8	Casing Test = Good
12/20/2015	14:04:30	7	0.0	8.35	301.8	3 BBLS Back
12/20/2015	14:04:47	8	0.0	8.35	301.8	
12/20/2015	14:04:53	7	0.0	8.35	301.8	36 BBLS Cement To Surface

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.2	N2	Mud	Maximum Rate 25.0	Total Slurry 1053.5	Mud 0.0	Spacer 133.3	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5185	Final 9	Average 962	Bump Plug to 2800	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 564.0 bbl		Displacement 245.5 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 36.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Tobin Sinclair			Schlumberger Supervisor Conley Jensen/ Taylor Baird			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



<b>Service Order #:</b>	
<b>Date:</b>	Dec/20/2015
<b>Operating Time (hh:mm):</b>	00:00
<b>Client Rep:</b>	Tobin Sinclair
<b>Schlumberger Engineer:</b>	Conley Jensen/ Taylor Baird
<b>Schlumberger FSM:</b>	

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

4	Evaluation				
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%

**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>