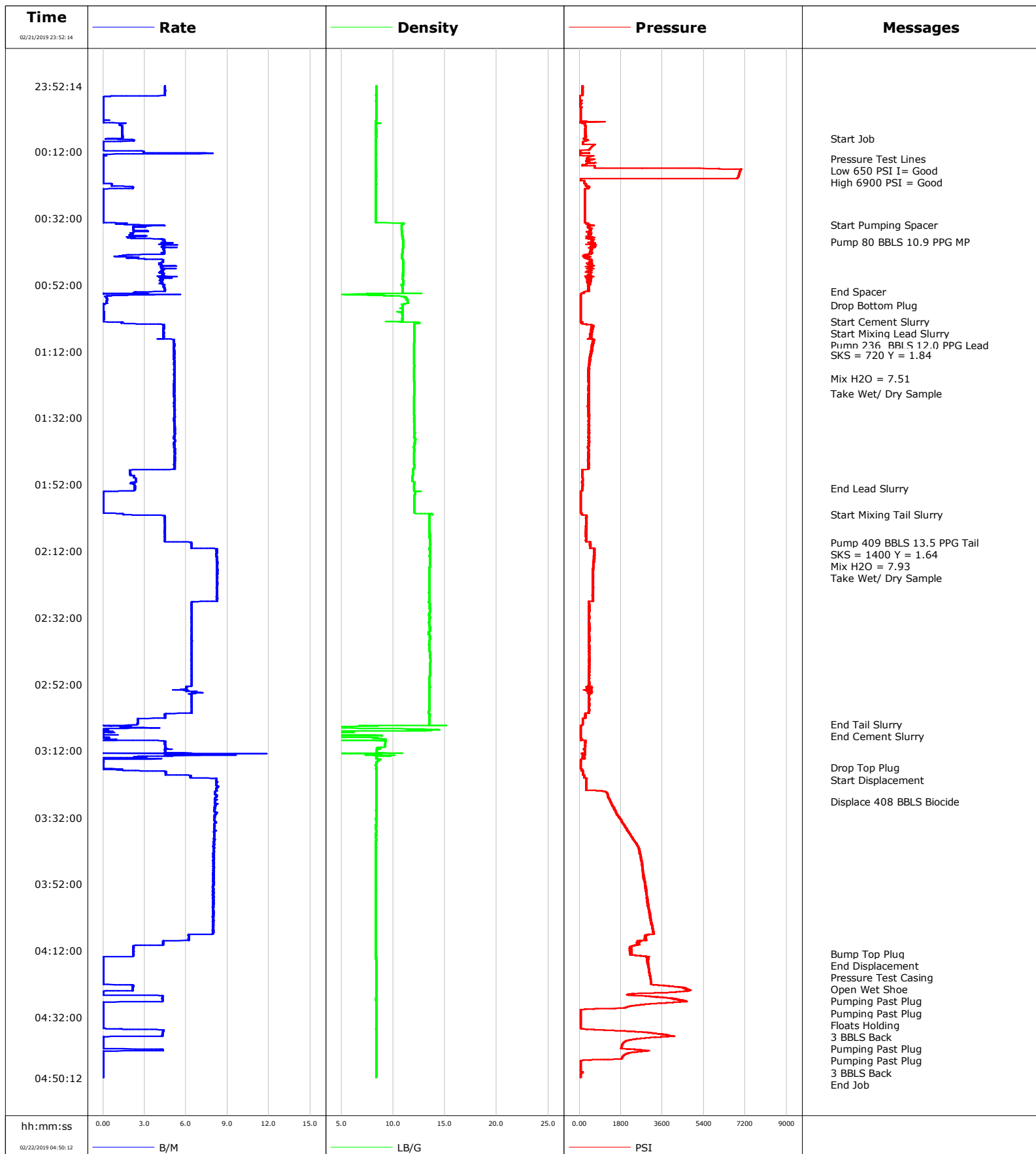


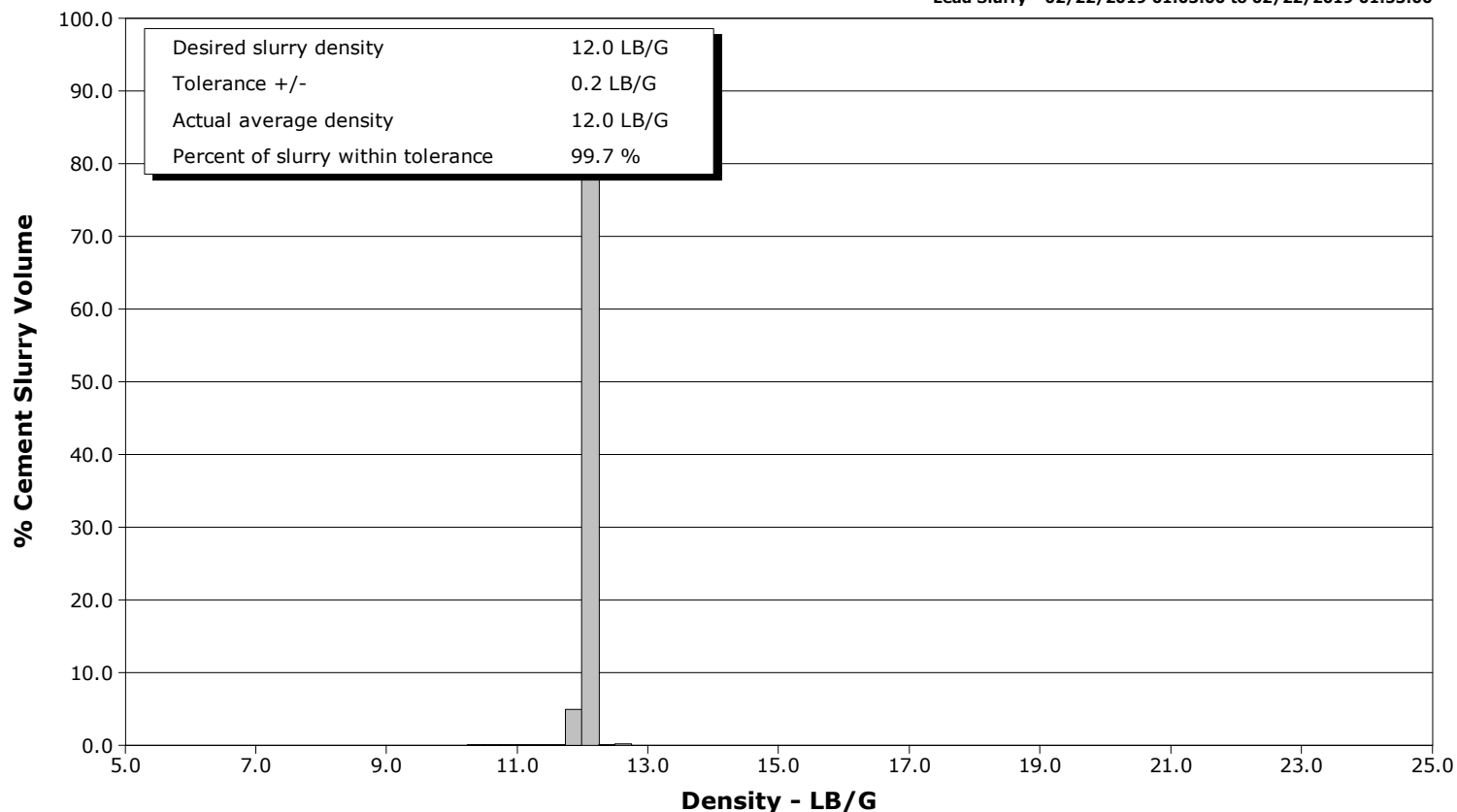
<b>Well</b>	OJB	<b>Client</b>	Anadarko
<b>Field</b>	Wattenberg	<b>SIR No.</b>	2896247
<b>Engineer</b>	Conley Jensen/ Chuck Innis	<b>Job Type</b>	5.5" Monobore
<b>Country</b>	United States	<b>Job Date</b>	02-21-2019



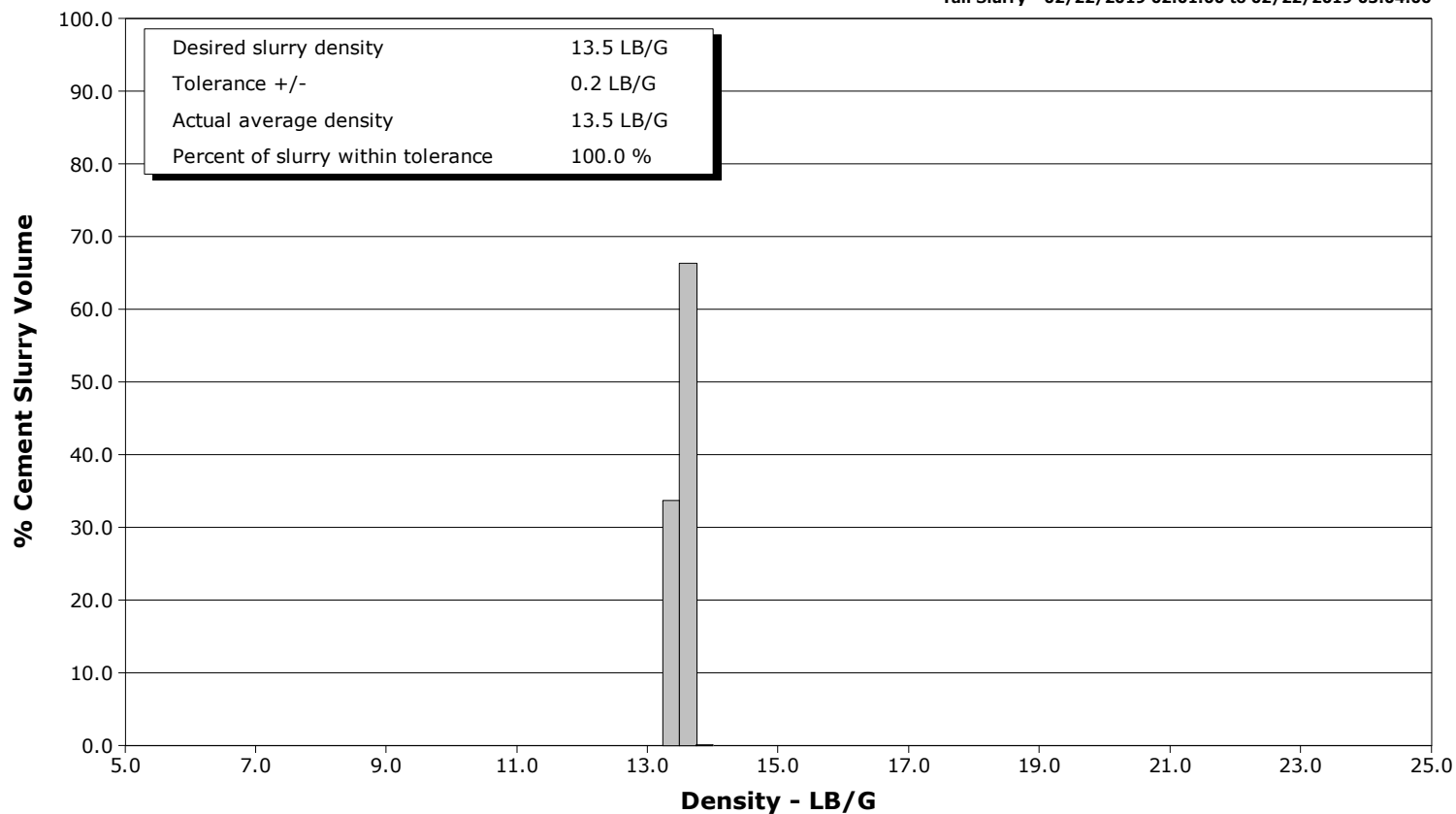
**Well** OJB  
**Field** Wattenberg  
**Engineer** Conley Jensen/ Chuck Innis  
**Country** United States

**Client** Anadarko  
**SIR No.** 2896247  
**Job Type** 5.5" Monobore  
**Job Date** 02-21-2019

**Lead Slurry - 02/22/2019 01:03:00 to 02/22/2019 01:53:00**



**Tail Slurry - 02/22/2019 02:01:00 to 02/22/2019 03:04:00**



# Cementing Service Report

				Customer Anadarko			Job Number 2896247				
Well OJB 15-17HZ			Location (legal)			Schlumberger Location CWY			Job Start Feb/21/2019		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 13.5 in		Well MD 17575.0 ft		Well TVD 7437.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 230 degF		BHCT 230 degF		Pore Press. Gradient lb/gal	
Well Master 0631801817		API/UWI 05123489810000									
Rig Name Precision 564		Drilled For Oil		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Development							
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
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			
						ft		ft			
						Treat Down Casing		Displacement 408.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 408.0 bbl		Annular Vol. 730.0 bbl	
										Openhole Vol. 1152.0 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 17575.0 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 Feb/21/2019 20:00		Arrived on Location Feb/21/2019 20:00		Leave Location Feb/21/2019 06:00		Collar Type Float			Tail Pipe Depth ft		
						Collar Depth 17565.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
02/21/2019	23:52:14	136	4.5	8.35	0.0	Started Acquisition					
02/21/2019	23:53:44	132	4.5	8.35	6.0						
02/21/2019	23:55:14	3	3.1	8.35	12.7						
02/21/2019	23:56:44	91	0.0	8.35	0.0						
02/21/2019	23:58:14	-5	0.0	8.35	0.0						
02/21/2019	23:59:44	56	0.0	8.35	0.0						
02/22/2019	00:01:14	53	0.0	8.35	0.0						
02/22/2019	00:02:44	52	0.0	8.35	0.0						
02/22/2019	00:04:14	247	1.4	8.34	1.1						
02/22/2019	00:05:44	243	1.4	8.35	3.2						
02/22/2019	00:07:14	282	1.4	8.35	5.3						
02/22/2019	00:08:00	251	1.4	8.34	6.4	Start Job					
02/22/2019	00:08:44	336	2.2	8.34	7.5						
02/22/2019	00:10:14	586	0.0	8.35	7.9						
02/22/2019	00:11:44	12	0.3	8.35	7.9						
02/22/2019	00:13:14	640	0.2	8.35	7.9						
02/22/2019	00:14:44	299	0.0	8.35	7.9						
02/22/2019	00:16:00	134	0.0	8.35	7.9	Low 650 PSI I= Good					
02/22/2019	00:16:14	126	0.0	8.35	7.9						
02/22/2019	00:17:00	108	0.0	8.35	7.9	High 6900 PSI = Good					
02/22/2019	00:17:44	103	0.0	8.35	7.9						

Well			Field	Job Start		Customer	Job Number
OJB 15-17HZ			Wattenberg	Feb/21/2019		Anadarko	2896247
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/22/2019	00:20:44	153	0.0	8.35	7.9		
02/22/2019	00:22:14	242	0.6	8.35	0.4		
02/22/2019	00:23:44	172	0.0	8.34	0.0		
02/22/2019	00:25:14	186	0.0	8.35	0.0		
02/22/2019	00:26:44	186	0.0	8.34	0.0		
02/22/2019	00:28:14	187	0.0	8.34	0.0		
02/22/2019	00:29:44	187	0.0	8.34	0.0		
02/22/2019	00:31:14	189	0.0	8.33	0.0		
02/22/2019	00:32:44	189	0.0	8.34	0.0		
02/22/2019	00:34:00	524	2.6	10.82	0.9	Start Pumping Spacer	
02/22/2019	00:34:14	541	4.4	10.81	1.8		
02/22/2019	00:37:14	395	2.8	10.89	8.9		
02/22/2019	00:38:44	506	4.4	10.97	13.5		
02/22/2019	00:39:00	540	4.5	10.97	14.7	Pump 80 BBLS 10.9 PPG MP	
02/22/2019	00:40:14	483	4.4	10.95	20.2		
02/22/2019	00:41:44	490	4.4	10.91	26.9		
02/22/2019	00:43:14	205	1.4	10.86	32.7		
02/22/2019	00:44:44	393	4.3	10.96	36.4		
02/22/2019	00:46:14	439	4.2	10.98	42.7		
02/22/2019	00:47:44	387	4.2	10.94	49.3		
02/22/2019	00:49:14	359	4.3	10.93	55.8		
02/22/2019	00:50:44	405	4.1	10.94	62.2		
02/22/2019	00:52:14	367	4.4	10.94	68.6		
02/22/2019	00:53:44	343	4.5	10.92	75.3		
02/22/2019	00:54:00	344	4.5	10.92	76.5	End Spacer	
02/22/2019	00:55:14	13	0.9	8.95	1.4		
02/22/2019	00:56:44	12	0.3	11.37	1.8		
02/22/2019	00:58:00	13	0.0	10.91	2.0	Drop Bottom Plug	
02/22/2019	00:58:14	13	0.0	10.90	2.0		
02/22/2019	00:59:44	13	0.0	10.89	2.0		
02/22/2019	01:01:14	12	0.1	10.89	2.1		
02/22/2019	01:02:44	12	0.0	10.87	2.2		
02/22/2019	01:03:00	11	0.0	10.89	0.0	Start Cement Slurry	
02/22/2019	01:04:14	526	4.4	12.04	2.7		
02/22/2019	01:05:44	484	4.4	12.07	9.3		
02/22/2019	01:07:14	480	4.4	12.06	15.9		
02/22/2019	01:08:00	431	4.4	12.05	19.2	Pump 236 BBLS 12.0 PPG Lead	
02/22/2019	01:08:44	554	5.1	12.04	22.7		
02/22/2019	01:10:14	515	5.1	12.01	30.4		
02/22/2019	01:11:44	518	5.1	12.03	38.1		
02/22/2019	01:13:00	466	5.2	12.01	44.6	SKS = 720 Y = 1.84	
02/22/2019	01:13:14	413	5.1	12.01	45.8		
02/22/2019	01:14:44	420	5.2	12.02	53.5		
02/22/2019	01:16:14	385	5.1	12.03	61.2		
02/22/2019	01:17:44	343	5.2	12.01	68.9		
02/22/2019	01:19:14	365	5.1	12.00	76.6		
02/22/2019	01:20:00	379	5.1	12.02	80.6	Mix H2O = 7.51	
02/22/2019	01:20:44	356	5.1	12.02	84.4		
02/22/2019	01:22:14	357	5.1	12.05	92.1		
02/22/2019	01:23:44	352	5.1	12.06	99.8		
02/22/2019	01:24:35	346	5.1	12.08	104.1	Take Wet/ Dry Sample	
02/22/2019	01:25:14	335	5.1	12.04	107.5		
02/22/2019	01:26:44	313	5.2	12.01	115.2		
02/22/2019	01:28:14	326	5.1	12.00	122.9		

Well			Field	Job Start		Customer		Job Number	
OJB 15-17HZ			Wattenberg		Feb/21/2019		Anadarko		2896247
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/22/2019	01:32:44	326	5.2	12.05	146.1				
02/22/2019	01:34:14	373	5.1	12.05	153.8				
02/22/2019	01:35:44	364	5.2	12.05	161.6				
02/22/2019	01:37:14	333	5.2	12.07	169.3				
02/22/2019	01:38:44	373	5.2	12.09	177.1				
02/22/2019	01:40:14	333	5.2	12.05	184.8				
02/22/2019	01:41:44	336	5.2	12.01	192.5				
02/22/2019	01:43:14	359	5.2	12.01	200.3				
02/22/2019	01:44:44	336	5.2	12.01	208.1				
02/22/2019	01:46:14	359	5.2	12.05	215.8				
02/22/2019	01:47:44	74	1.9	11.92	222.9				
02/22/2019	01:49:14	72	2.0	11.90	225.9				
02/22/2019	01:50:44	93	2.4	11.88	229.3				
02/22/2019	01:52:14	94	2.3	12.01	232.7				
02/22/2019	01:53:00	93	2.3	12.00	234.4	End Lead Slurry			
02/22/2019	01:53:44	92	2.3	12.01	236.1				
02/22/2019	01:55:14	13	0.0	12.08	0.0				
02/22/2019	01:56:44	13	0.0	12.08	0.0				
02/22/2019	01:58:14	14	0.0	12.07	0.0				
02/22/2019	01:59:44	13	0.0	12.07	0.0				
02/22/2019	02:01:00	67	1.5	13.78	0.5	Start Mixing Tail Slurry			
02/22/2019	02:01:14	281	3.7	13.48	0.9				
02/22/2019	02:02:44	277	4.5	13.50	7.5				
02/22/2019	02:04:14	252	4.5	13.49	14.2				
02/22/2019	02:05:44	279	4.5	13.51	20.9				
02/22/2019	02:07:14	247	4.5	13.52	27.6				
02/22/2019	02:08:44	261	4.5	13.54	34.3				
02/22/2019	02:09:21	437	6.3	13.54	37.2	Pump 409 BBLS 13.5 PPG Tail			
02/22/2019	02:10:02	435	6.4	13.58	41.6	SKS = 1400 Y = 1.64			
02/22/2019	02:10:11	433	6.4	13.56	42.5	Mix H2O = 7.93			
02/22/2019	02:10:14	410	6.4	13.56	42.8				
02/22/2019	02:10:23	415	6.4	13.56	43.8	Take Wet/ Dry Sample			
02/22/2019	02:11:44	623	8.2	13.52	53.3				
02/22/2019	02:13:14	615	8.2	13.52	65.7				
02/22/2019	02:14:44	602	8.2	13.55	78.0				
02/22/2019	02:16:14	577	8.2	13.54	90.3				
02/22/2019	02:17:44	561	8.3	13.50	102.7				
02/22/2019	02:19:14	564	8.2	13.51	115.1				
02/22/2019	02:20:44	545	8.2	13.49	127.3				
02/22/2019	02:22:14	561	8.2	13.50	139.8				
02/22/2019	02:23:44	556	8.2	13.49	152.2				
02/22/2019	02:25:14	549	8.2	13.47	164.5				
02/22/2019	02:26:44	540	8.2	13.50	176.9				
02/22/2019	02:28:14	385	6.4	13.56	187.3				
02/22/2019	02:29:44	353	6.4	13.53	196.9				
02/22/2019	02:31:14	369	6.4	13.48	206.5				
02/22/2019	02:32:44	375	6.4	13.51	216.0				
02/22/2019	02:34:14	382	6.4	13.50	225.6				
02/22/2019	02:35:44	357	6.4	13.53	235.2				
02/22/2019	02:37:14	352	6.4	13.47	244.8				
02/22/2019	02:38:44	388	6.4	13.51	254.4				
02/22/2019	02:40:14	395	6.4	13.49	264.0				
02/22/2019	02:41:44	356	6.4	13.51	273.6				
02/22/2019	02:43:14	379	6.4	13.53	283.2				

Well			Field	Job Start		Customer	Job Number
OJB 15-17HZ			Wattenberg	Feb/21/2019		Anadarko	2896247
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/22/2019	02:46:14	389	6.4	13.55	302.4		
02/22/2019	02:47:44	352	6.4	13.54	312.0		
02/22/2019	02:49:14	369	6.4	13.53	321.6		
02/22/2019	02:50:44	365	6.4	13.51	331.2		
02/22/2019	02:52:14	387	6.4	13.50	340.8		
02/22/2019	02:53:44	409	5.7	13.51	349.9		
02/22/2019	02:55:14	391	6.4	13.51	359.4		
02/22/2019	02:56:44	379	6.4	13.50	369.0		
02/22/2019	02:58:14	363	6.4	13.49	378.6		
02/22/2019	02:59:44	380	6.4	13.47	388.2		
02/22/2019	03:01:14	245	4.5	13.48	397.0		
02/22/2019	03:02:44	104	2.5	13.48	402.8		
02/22/2019	03:04:00	103	2.5	13.48	406.0	End Tail Slurry	
02/22/2019	03:04:14	91	2.3	13.47	406.5		
02/22/2019	03:05:44	11	0.4	13.80	0.0		
02/22/2019	03:07:14	15	0.9	1.16	0.3		
02/22/2019	03:08:44	62	0.9	9.26	0.6		
02/22/2019	03:10:14	163	4.5	9.19	6.6		
02/22/2019	03:11:44	160	4.5	8.38	13.4		
02/22/2019	03:13:14	152	4.5	8.38	20.3		
02/22/2019	03:14:44	6	0.0	8.74	24.1		
02/22/2019	03:16:14	5	0.0	8.32	24.1		
02/22/2019	03:17:00	6	0.0	8.36	24.1	Drop Top Plug	
02/22/2019	03:17:44	44	1.0	8.38	0.2		
02/22/2019	03:19:14	83	4.5	8.39	6.0		
02/22/2019	03:20:44	242	8.2	8.35	16.3		
02/22/2019	03:23:44	239	8.2	8.35	40.9		
02/22/2019	03:25:14	1190	8.1	8.36	53.1		
02/22/2019	03:26:44	1255	8.2	8.36	65.4		
02/22/2019	03:27:15	1303	8.1	8.35	69.6	Displace 408 BBLS Biocide	
02/22/2019	03:28:14	1344	8.1	8.36	77.6		
02/22/2019	03:29:44	1475	8.1	8.35	89.7		
02/22/2019	03:31:14	1601	8.1	8.36	101.9		
02/22/2019	03:32:44	1767	8.1	8.35	114.0		
02/22/2019	03:34:14	1879	8.1	8.35	126.1		
02/22/2019	03:35:44	2026	8.0	8.35	138.2		
02/22/2019	03:37:14	2134	8.0	8.35	150.3		
02/22/2019	03:38:44	2310	8.0	8.36	162.3		
02/22/2019	03:40:14	2470	8.0	8.35	174.3		
02/22/2019	03:41:44	2561	8.0	8.35	186.3		
02/22/2019	03:43:14	2587	8.0	8.35	198.3		
02/22/2019	03:44:44	2647	8.0	8.35	210.3		
02/22/2019	03:46:14	2686	8.0	8.35	222.2		
02/22/2019	03:47:44	2704	8.0	8.35	234.2		
02/22/2019	03:49:14	2704	8.0	8.35	246.2		
02/22/2019	03:50:44	2785	8.0	8.34	258.2		
02/22/2019	03:52:14	2808	8.0	8.35	270.1		
02/22/2019	03:53:44	2831	8.0	8.35	282.1		
02/22/2019	03:55:14	2880	8.0	8.35	294.0		
02/22/2019	03:56:44	2906	8.0	8.35	306.0		
02/22/2019	03:58:14	2906	8.0	8.35	317.9		
02/22/2019	03:59:44	2979	8.0	8.34	329.8		
02/22/2019	04:01:14	3013	7.9	8.35	341.8		
02/22/2019	04:02:44	3044	7.9	8.35	353.7		

Well			Field	Job Start	Customer	Job Number
OJB 15-17HZ			Wattenberg	Feb/21/2019	Anadarko	2896247
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
02/22/2019	04:05:44	3155	7.9	8.35	377.6	
02/22/2019	04:07:14	2902	6.2	8.35	389.3	
02/22/2019	04:08:44	2800	6.2	8.35	398.6	
02/22/2019	04:10:14	2442	4.3	8.35	405.7	
02/22/2019	04:13:00	2220	2.2	8.35	412.2	Bump Top Plug
02/22/2019	04:13:14	2223	2.2	8.35	412.7	
02/22/2019	04:14:44	2897	0.0	8.35	414.1	
02/22/2019	04:16:14	2944	0.0	8.35	414.1	
02/22/2019	04:17:44	2967	0.0	8.35	414.1	
02/22/2019	04:19:14	3001	0.0	8.35	0.0	
02/22/2019	04:20:44	3038	0.0	8.35	0.0	
02/22/2019	04:21:58	3064	0.0	8.35	0.0	Open Wet Shoe
02/22/2019	04:22:14	3185	0.3	8.35	0.0	
02/22/2019	04:23:00	4328	2.2	8.35	1.5	Pumping Past Plug
02/22/2019	04:23:44	4625	2.1	8.35	3.1	
02/22/2019	04:25:14	2018	0.0	8.35	4.0	
02/22/2019	04:26:44	4196	4.3	8.35	5.4	
02/22/2019	04:27:00	4360	4.3	8.35	6.6	Pumping Past Plug
02/22/2019	04:28:14	2684	0.0	8.36	8.5	
02/22/2019	04:29:00	1996	0.0	8.36	8.5	Floats Holding
02/22/2019	04:29:44	25	0.0	8.36	8.5	
02/22/2019	04:31:14	7	0.0	8.36	8.5	
02/22/2019	04:32:44	8	0.0	8.36	8.5	
02/22/2019	04:34:14	7	0.0	8.36	8.5	
02/22/2019	04:35:44	511	3.1	8.35	8.8	
02/22/2019	04:37:14	3662	4.3	8.35	15.3	
02/22/2019	04:38:01	3272	0.0	8.36	17.8	Pumping Past Plug
02/22/2019	04:38:44	2267	0.0	8.36	17.8	
02/22/2019	04:40:14	1806	0.0	8.36	17.8	
02/22/2019	04:41:44	2409	4.3	8.35	0.6	
02/22/2019	04:42:00	2880	4.3	8.35	1.8	Pumping Past Plug
02/22/2019	04:43:14	1922	0.0	8.36	2.5	
02/22/2019	04:44:00	1816	0.0	8.36	2.5	3 BBLS Back
02/22/2019	04:44:44	1176	0.0	8.36	2.5	
02/22/2019	04:46:14	6	0.0	8.36	2.5	
02/22/2019	04:47:44	7	0.0	8.36	2.5	
02/22/2019	04:48:21	7	0.0	8.36	2.5	End Job

## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.4	N2	Mud	Maximum Rate 11.8	Total Slurry 642.0	Mud 0.0	Spacer 78.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 7042	Final 47	Average 966	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 645.0 bbl	Displacement 408.0 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Steve Martinez			Schlumberger Supervisor Conley Jensen/ Chuck Innis			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



<b>Service Order #:</b>	
<b>Date:</b>	Feb/21/2019
<b>Operating Time (hh:mm):</b>	00:00
<b>Client Rep:</b>	Steve Martinez
<b>Schlumberger Engineer:</b>	Conley Jensen/ Chuck Innis
<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>