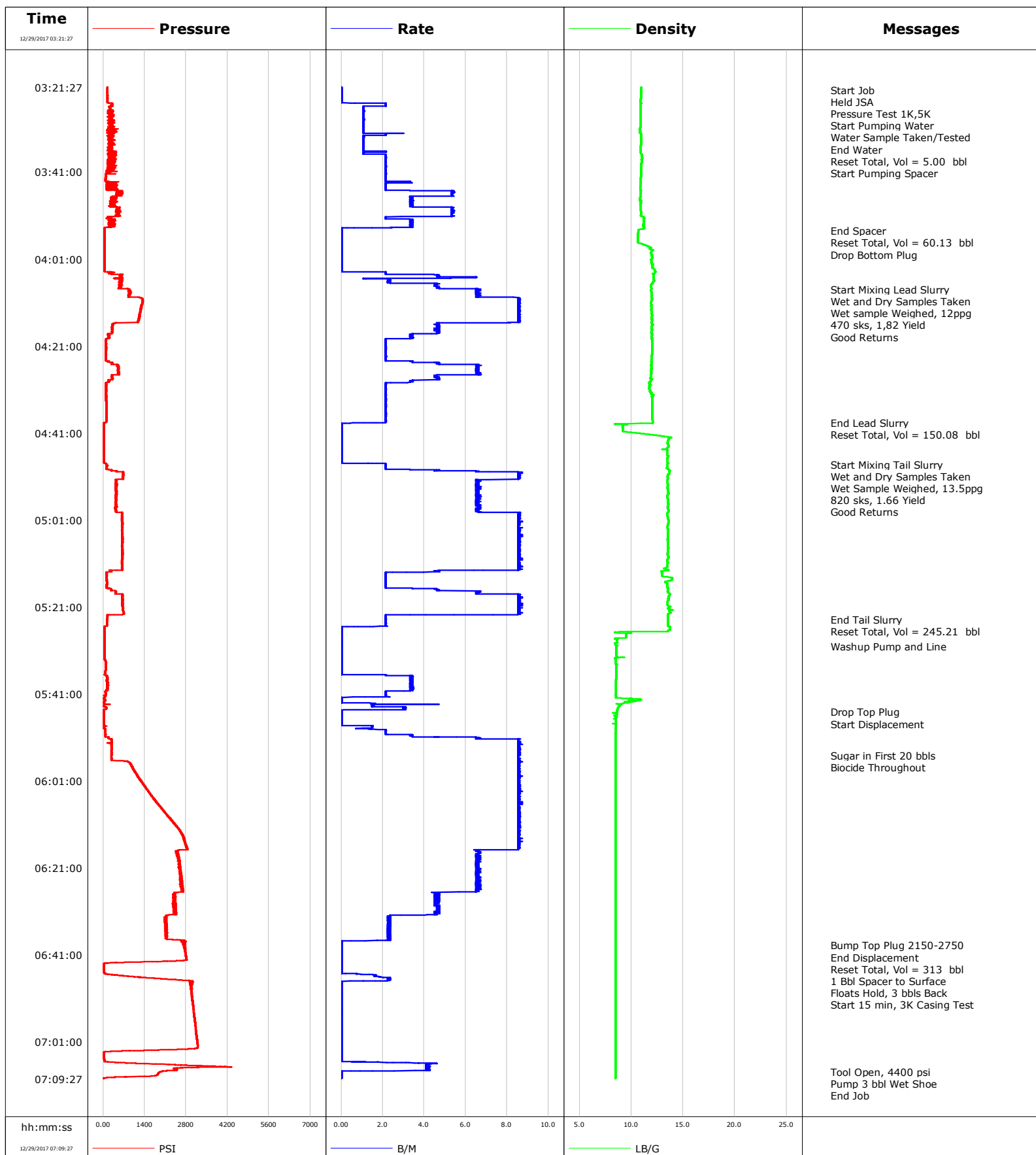


Well Papa Jo 2-25 29N2-8HZ
Field Wattenberg
Engineer Ryan Drilling/Sheldon Bell
Country United States

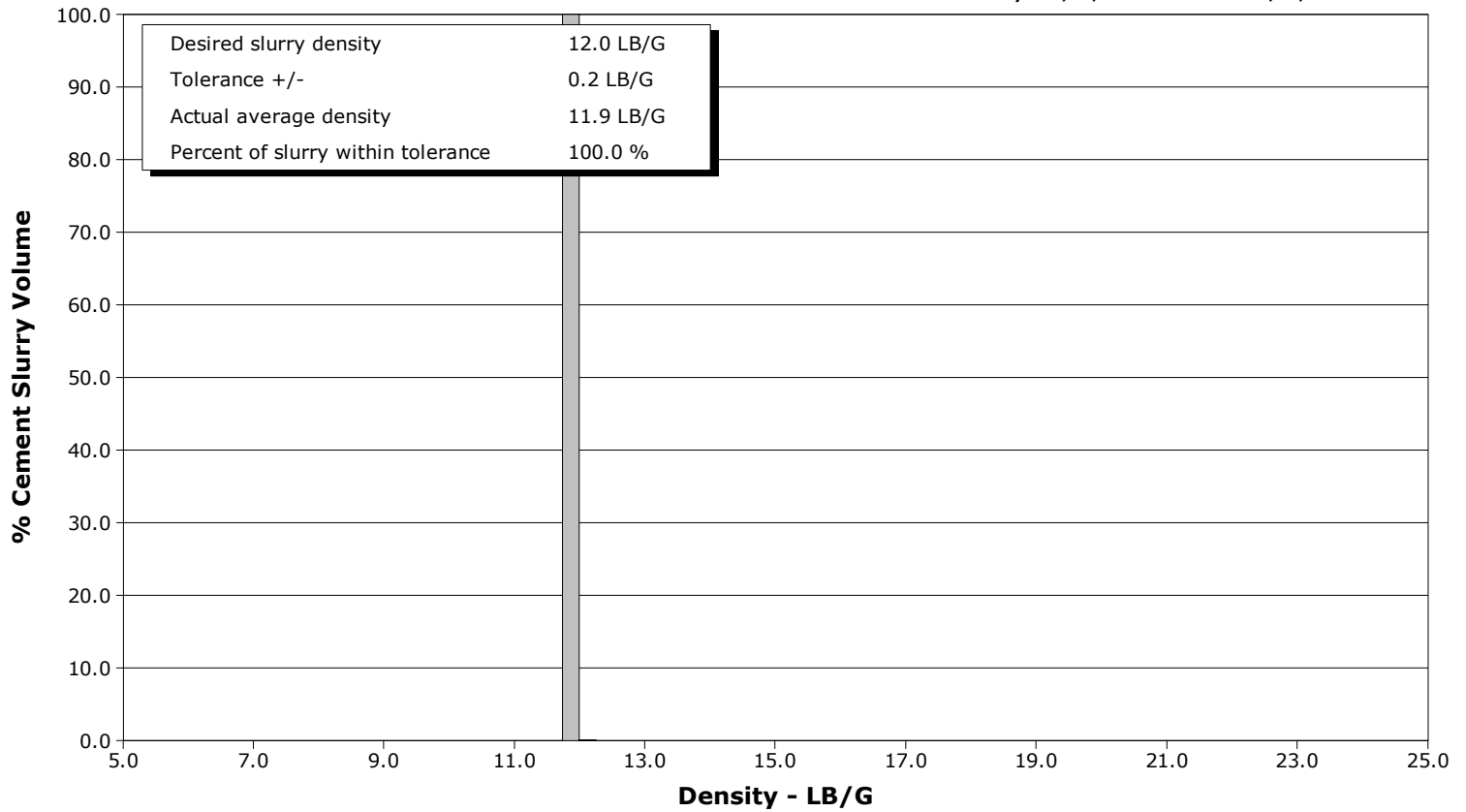
Client Anadarko
SIR No. D8WD-00930
Job Type 5.5" Production
Job Date 12-29-2017



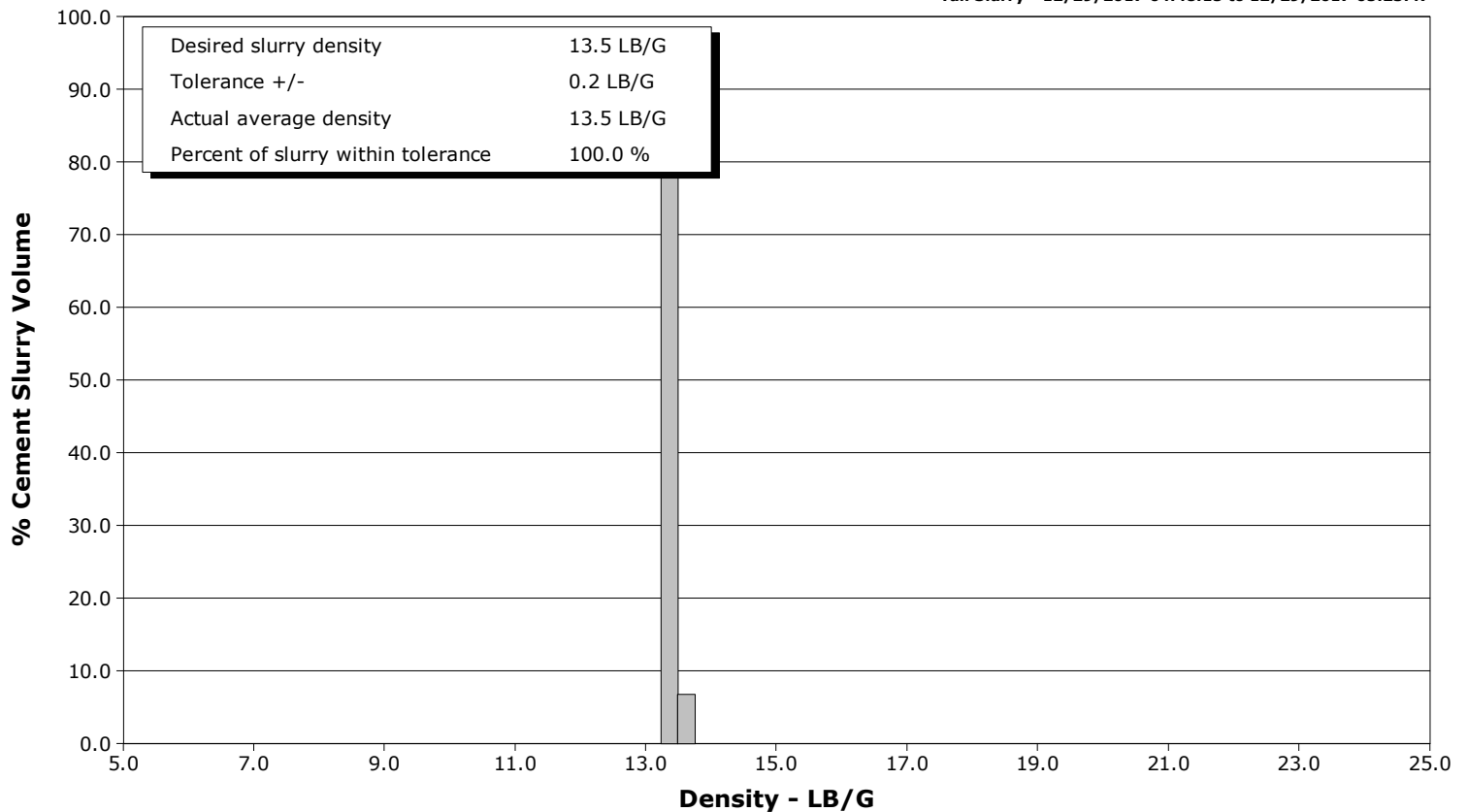
Well Papa Jo 2-25 29N2-8HZ
Field Wattenberg
Engineer Ryan Drilling/Sheldon Bell
Country United States

Client Anadarko
SIR No. D8WD-00930
Job Type 5.5" Production
Job Date 12-29-2017

Lead Slurry - 12/29/2017 04:07:56 to 12/29/2017 04:38:39



Tail Slurry - 12/29/2017 04:48:15 to 12/29/2017 05:23:47



Cementing Service Report

				Customer Anadarko			Job Number D8WD-00930			
Well Papa Jo 2-25 29N2-8HZ			Location (legal) CWY			Schlumberger Location CWY			Job Start Dec/29/2017	
Field Wattenberg		Formation Name/Type		Deviation 90 deg		Bit Size 7.8 in		Well MD 13508.0 ft		Well TVD 7610.0 ft
County Weld		State/Province Colorado		BHP psi		BHST 231 degF		BHCT 217 degF		Pore Press. Gradient lb/gal
Well Master 0631736128		API/UWI								
Rig Name Precision 564		Drilled For Gas		Service Via Land		Casing/ Liner				
						Depth, ft		Size, in		Weight, lb/ft
Offshore Zone		Well Class New		Well Type Development		18759.6		9.6		36.0
						13497.0		5.5		17.0
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" Production								
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		
						ft		ft		
						Treat Down Casing		Displacement bbl		Packer Type
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. 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 2150 psi						Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 13497.0 ft		Tool Type		
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type		Tool Depth ft		
Cement Head Type						Stage Tool Depth ft		Tail Pipe Size in		
Job Scheduled For Dec/29/2017 01:00		Arrived on Location Dec/29/2017 01:00		Leave Location Dec/29/2017 08:00		Collar Type Float		Tail Pipe Depth ft		
						Collar Depth 13596.0 ft		Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
12/29/2017	03:21:27	147	0.0	8.40	0.0	Started Acquisition				
12/29/2017	03:22:05	150	0.0	8.40	0.0	Start Job				
12/29/2017	03:22:06	150	0.0	8.39	0.0	Held JSA				
12/29/2017	03:22:07	151	0.0	8.39	0.0	Start Pumping Water				
12/29/2017	03:22:08	150	0.0	8.39	0.0	Water Sample Taken/Tested				
12/29/2017	03:22:14	150	0.0	8.39	0.0	End Water				
12/29/2017	03:22:18	150	0.0	8.39	0.0	Start Pumping Spacer				
12/29/2017	03:22:27	150	0.0	8.40	0.0					
12/29/2017	03:23:27	151	0.0	8.40	0.0					
12/29/2017	03:24:27	150	0.0	8.39	0.0					
12/29/2017	03:25:27	289	2.1	10.78	0.7					
12/29/2017	03:26:27	240	1.1	10.77	2.2					
12/29/2017	03:27:27	295	1.1	10.77	3.3					
12/29/2017	03:28:27	234	1.1	10.77	4.3					
12/29/2017	03:29:27	253	1.1	10.77	5.4					
12/29/2017	03:30:27	251	1.1	10.77	6.5					
12/29/2017	03:31:27	350	1.1	10.77	7.5					
12/29/2017	03:32:27	311	2.1	10.78	9.0					
12/29/2017	03:33:27	217	1.1	10.79	10.2					
12/29/2017	03:34:27	212	1.1	10.78	11.2					
12/29/2017	03:35:27	175	1.1	10.79	12.3					

Well			Field	Job Start		Customer		Job Number	
Papa Jo 2-25 29N2-8HZ			Wattenberg		Dec/29/2017		Anadarko		D8WD-00930
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/29/2017	03:37:27	406	2.1	10.87	15.3				
12/29/2017	03:38:27	415	2.1	10.90	17.4				
12/29/2017	03:39:27	384	2.2	10.89	19.5				
12/29/2017	03:40:27	133	2.1	10.88	21.7				
12/29/2017	03:41:27	98	2.1	10.88	23.8				
12/29/2017	03:42:27	85	2.1	10.88	26.0				
12/29/2017	03:43:27	201	3.4	10.86	28.3				
12/29/2017	03:44:27	136	2.1	10.84	30.5				
12/29/2017	03:45:27	600	5.3	10.85	33.3				
12/29/2017	03:46:27	493	5.3	10.84	38.7				
12/29/2017	03:47:27	334	3.4	10.80	42.2				
12/29/2017	03:48:27	244	3.4	10.82	45.6				
12/29/2017	03:49:27	438	5.3	10.85	49.8				
12/29/2017	03:50:27	480	5.4	10.88	55.1				
12/29/2017	03:51:27	154	2.1	10.86	59.7				
12/29/2017	03:52:27	300	3.4	10.85	62.6				
12/29/2017	03:53:27	220	3.4	10.98	66.0				
12/29/2017	03:54:24	41	0.0	11.03	67.1	End Spacer			
12/29/2017	03:54:25	41	0.0	11.02	67.1	Reset Total, Vol = 60.13 bbl			
12/29/2017	03:54:27	41	0.0	11.06	67.1				
12/29/2017	03:55:27	39	0.0	11.01	67.1				
12/29/2017	03:56:27	39	0.0	11.03	67.1				
12/29/2017	03:57:27	39	0.0	11.06	0.0				
12/29/2017	03:58:27	38	0.0	11.06	0.0				
12/29/2017	03:59:27	39	0.0	11.06	0.0				
12/29/2017	03:59:58	38	0.0	11.07	0.0	Drop Bottom Plug			
12/29/2017	04:00:27	39	0.0	11.06	0.0				
12/29/2017	04:01:27	38	0.0	11.06	0.0				
12/29/2017	04:02:27	39	0.0	11.06	0.0				
12/29/2017	04:03:27	38	0.0	11.06	0.0				
12/29/2017	04:04:27	305	2.2	12.00	1.1				
12/29/2017	04:05:27	478	1.1	12.01	6.0				
12/29/2017	04:06:27	617	2.2	12.03	8.2				
12/29/2017	04:07:27	590	4.6	11.97	12.6				
12/29/2017	04:07:56	853	6.6	11.95	15.1	Start Mixing Lead Slurry			
12/29/2017	04:07:57	900	6.6	11.95	15.2	Wet and Dry Samples Taken			
12/29/2017	04:07:58	914	6.7	11.95	15.3	470 sks, 1,82 Yield			
12/29/2017	04:08:27	875	6.5	11.94	18.5				
12/29/2017	04:09:27	875	6.6	11.93	25.1				
12/29/2017	04:10:27	1335	8.5	11.93	33.0				
12/29/2017	04:11:27	1306	8.5	11.92	41.5				
12/29/2017	04:12:27	1277	8.5	11.91	50.0				
12/29/2017	04:13:27	1244	8.5	11.92	58.6				
12/29/2017	04:14:27	1227	8.6	11.93	67.1				
12/29/2017	04:15:27	1196	8.6	11.94	75.6				
12/29/2017	04:16:27	297	4.7	11.92	81.0				
12/29/2017	04:17:27	300	4.6	11.92	85.6				
12/29/2017	04:18:27	153	3.4	11.93	89.9				
12/29/2017	04:19:27	99	2.1	11.92	93.0				
12/29/2017	04:20:27	96	2.1	11.93	95.2				
12/29/2017	04:21:27	97	2.1	11.93	97.3				
12/29/2017	04:22:27	96	2.1	11.94	99.4				
12/29/2017	04:23:27	95	2.1	11.93	101.6				
12/29/2017	04:24:27	171	3.4	11.92	103.7				

Well Papa Jo 2-25 29N2-8HZ			Field Wattenberg	Job Start Dec/29/2017		Customer Anadarko	Job Number D8WD-00930
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
12/29/2017	04:26:27	494	6.5	11.91	115.1		
12/29/2017	04:27:27	510	6.6	11.90	121.7		
12/29/2017	04:28:27	321	4.6	11.88	126.6		
12/29/2017	04:29:27	99	2.1	11.86	130.4		
12/29/2017	04:30:27	99	2.1	11.85	132.5		
12/29/2017	04:31:27	100	2.1	11.82	134.7		
12/29/2017	04:32:27	109	2.1	11.87	136.8		
12/29/2017	04:33:27	103	2.1	11.95	138.9		
12/29/2017	04:34:27	110	2.1	11.94	141.1		
12/29/2017	04:35:27	112	2.1	11.96	143.2		
12/29/2017	04:36:27	111	2.1	11.95	145.3		
12/29/2017	04:37:27	112	2.1	11.98	147.5		
12/29/2017	04:38:27	106	2.1	11.98	149.6		
12/29/2017	04:38:39	24	1.6	12.11	150.0	End Lead Slurry	
12/29/2017	04:38:42	26	0.6	12.07	150.1	Reset Total, Vol = 150.08 bbl	
12/29/2017	04:39:27	27	0.0	12.04	150.1		
12/29/2017	04:40:27	27	0.0	12.06	0.0		
12/29/2017	04:41:27	28	0.0	12.09	0.0		
12/29/2017	04:42:27	28	0.0	12.10	0.0		
12/29/2017	04:43:27	28	0.0	12.11	0.0		
12/29/2017	04:44:27	28	0.0	12.12	0.0		
12/29/2017	04:45:27	28	0.0	12.12	0.0		
12/29/2017	04:46:27	27	0.0	12.13	0.0		
12/29/2017	04:47:27	28	0.0	12.13	0.0		
12/29/2017	04:48:15	102	2.1	13.40	0.6	Start Mixing Tail Slurry	
12/29/2017	04:48:16	104	2.1	13.40	0.6	Wet and Dry Samples Taken	
12/29/2017	04:48:17	103	2.2	13.40	0.7	Wet Sample Weighed, 13.5ppg	
12/29/2017	04:48:18	106	2.1	13.40	0.7	820 sks, 1.66 Yield	
12/29/2017	04:48:27	109	2.1	13.40	1.0		
12/29/2017	04:49:27	281	3.4	13.41	3.3		
12/29/2017	04:50:27	687	8.5	13.49	10.3		
12/29/2017	04:51:27	671	8.6	13.47	18.9		
12/29/2017	04:52:27	425	6.6	13.45	25.9		
12/29/2017	04:53:27	448	6.5	13.45	32.5		
12/29/2017	04:54:27	439	6.6	13.46	39.1		
12/29/2017	04:55:27	453	6.5	13.45	45.6		
12/29/2017	04:56:27	446	6.6	13.45	52.2		
12/29/2017	04:57:27	441	6.5	13.47	58.8		
12/29/2017	04:58:27	420	6.6	13.47	65.4		
12/29/2017	04:59:27	645	8.6	13.49	72.4		
12/29/2017	05:00:27	638	8.5	13.45	80.9		
12/29/2017	05:01:27	650	8.6	13.48	89.5		
12/29/2017	05:02:27	652	8.5	13.48	98.0		
12/29/2017	05:03:27	650	8.6	13.47	106.6		
12/29/2017	05:04:27	643	8.5	13.48	115.1		
12/29/2017	05:05:27	656	8.5	13.47	123.6		
12/29/2017	05:06:27	644	8.5	13.47	132.2		
12/29/2017	05:07:27	644	8.5	13.48	140.7		
12/29/2017	05:08:27	657	8.6	13.48	149.3		
12/29/2017	05:09:27	648	8.5	13.48	157.8		
12/29/2017	05:10:27	646	8.5	13.46	166.3		
12/29/2017	05:11:27	641	8.5	13.45	174.9		
12/29/2017	05:12:27	645	8.5	13.41	183.4		
12/29/2017	05:13:27	127	2.1	13.31	187.3		

Well			Field	Job Start		Customer		Job Number	
Papa Jo 2-25 29N2-8HZ			Wattenberg		Dec/29/2017		Anadarko		D8WD-00930
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/29/2017	05:15:27	123	2.1	13.44	191.6				
12/29/2017	05:16:27	115	2.2	13.37	193.7				
12/29/2017	05:17:27	407	6.5	13.40	198.0				
12/29/2017	05:18:27	649	8.5	13.48	205.4				
12/29/2017	05:19:27	654	8.5	13.50	214.0				
12/29/2017	05:20:27	661	8.5	13.47	222.5				
12/29/2017	05:21:27	668	8.5	13.51	231.0				
12/29/2017	05:22:27	696	8.5	13.58	239.6				
12/29/2017	05:23:27	137	2.1	13.56	243.8				
12/29/2017	05:23:47	132	2.1	13.47	244.5	End Tail Slurry			
12/29/2017	05:24:07	132	2.1	13.46	245.2	Reset Total, Vol = 245.21 bbl			
12/29/2017	05:24:27	133	2.1	13.46	245.9				
12/29/2017	05:25:27	59	1.9	13.51	248.0				
12/29/2017	05:26:27	42	0.0	13.62	248.1				
12/29/2017	05:27:27	44	0.0	13.63	248.1				
12/29/2017	05:28:27	45	0.0	13.87	248.1				
12/29/2017	05:29:27	45	0.0	13.94	248.1				
12/29/2017	05:30:02	45	0.0	14.05	248.1	Washup Pump and Line			
12/29/2017	05:30:27	45	0.0	14.11	248.1				
12/29/2017	05:31:27	44	0.0	13.78	248.1				
12/29/2017	05:32:27	46	0.0	9.59	248.1				
12/29/2017	05:33:27	83	0.0	9.80	248.1				
12/29/2017	05:34:27	95	0.0	9.33	248.1				
12/29/2017	05:35:27	91	0.0	9.35	248.1				
12/29/2017	05:36:27	78	0.0	9.33	248.1				
12/29/2017	05:37:27	126	3.4	8.59	250.9				
12/29/2017	05:38:27	147	3.3	9.12	254.2				
12/29/2017	05:39:27	158	3.3	8.50	257.6				
12/29/2017	05:40:27	77	2.1	8.47	260.9				
12/29/2017	05:41:27	59	2.1	8.29	263.0				
12/29/2017	05:42:27	70	0.0	8.39	263.5				
12/29/2017	05:43:27	34	1.6	8.40	264.3				
12/29/2017	05:44:27	94	3.1	8.45	266.5				
12/29/2017	05:45:04	22	0.0	8.42	267.1	Drop Top Plug			
12/29/2017	05:45:05	23	0.0	8.40	267.1	Start Displacement			
12/29/2017	05:45:27	27	0.0	8.40	0.0				
12/29/2017	05:46:27	29	0.0	8.40	0.0				
12/29/2017	05:47:27	29	0.0	8.40	0.0				
12/29/2017	05:48:27	45	1.5	8.61	0.3				
12/29/2017	05:49:27	70	2.1	8.44	1.9				
12/29/2017	05:50:27	79	3.4	8.43	4.2				
12/29/2017	05:51:27	268	8.5	8.42	4.7				
12/29/2017	05:52:27	290	8.6	8.44	13.3				
12/29/2017	05:53:27	281	8.5	8.44	21.8				
12/29/2017	05:54:27	283	8.5	8.40	30.4				
12/29/2017	05:55:05	285	8.5	8.41	35.8	Sugar in First 20 bbls			
12/29/2017	05:55:06	279	8.5	8.41	35.9	Biocide Throughout			
12/29/2017	05:55:27	285	8.5	8.40	38.9				
12/29/2017	05:56:27	773	8.5	8.40	47.4				
12/29/2017	05:57:27	965	8.5	8.41	56.0				
12/29/2017	05:58:27	1046	8.5	8.40	64.5				
12/29/2017	05:59:27	1143	8.5	8.40	73.0				
12/29/2017	06:00:27	1225	8.5	8.40	81.6				
12/29/2017	06:01:27	1329	8.5	8.40	90.1				

Well Papa Jo 2-25 29N2-8HZ			Field Wattenberg		Job Start Dec/29/2017		Customer Anadarko		Job Number D8WD-00930	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
12/29/2017	06:03:27	1533	8.5	8.40	107.2					
12/29/2017	06:04:27	1649	8.5	8.40	115.7					
12/29/2017	06:05:27	1764	8.5	8.40	124.2					
12/29/2017	06:06:27	1873	8.6	8.40	132.8					
12/29/2017	06:07:27	2001	8.5	8.40	141.3					
12/29/2017	06:08:27	2100	8.5	8.40	149.8					
12/29/2017	06:09:27	2252	8.5	8.40	158.4					
12/29/2017	06:10:27	2348	8.6	8.40	166.9					
12/29/2017	06:11:27	2489	8.5	8.40	175.4					
12/29/2017	06:12:27	2601	8.5	8.40	184.0					
12/29/2017	06:13:27	2694	8.5	8.40	192.5					
12/29/2017	06:14:27	2721	8.6	8.40	201.0					
12/29/2017	06:15:27	2784	8.6	8.40	209.6					
12/29/2017	06:16:27	2841	8.5	8.40	218.1					
12/29/2017	06:17:27	2521	6.6	8.40	225.4					
12/29/2017	06:18:27	2554	6.5	8.40	232.0					
12/29/2017	06:19:27	2571	6.6	8.40	238.6					
12/29/2017	06:20:27	2560	6.6	8.39	245.1					
12/29/2017	06:21:27	2606	6.6	8.40	251.7					
12/29/2017	06:22:27	2638	6.5	8.40	258.3					
12/29/2017	06:23:27	2633	6.6	8.40	264.9					
12/29/2017	06:24:27	2599	6.6	8.39	271.5					
12/29/2017	06:25:27	2677	6.6	8.40	278.1					
12/29/2017	06:26:27	2677	6.5	8.40	284.7					
12/29/2017	06:27:27	2377	4.6	8.39	289.5					
12/29/2017	06:28:27	2399	4.7	8.39	294.1					
12/29/2017	06:29:27	2459	4.6	8.39	298.7					
12/29/2017	06:30:27	2440	4.7	8.39	303.4					
12/29/2017	06:31:27	2373	4.6	8.39	308.0					
12/29/2017	06:32:27	2110	2.4	8.39	311.2					
12/29/2017	06:33:27	2076	2.4	8.39	313.5					
12/29/2017	06:34:27	2148	2.2	8.39	315.9					
12/29/2017	06:35:27	2148	2.2	8.39	318.2					
12/29/2017	06:36:27	2108	2.2	8.39	320.4					
12/29/2017	06:37:27	2338	2.2	8.39	322.8					
12/29/2017	06:38:27	2746	0.0	8.39	323.4					
12/29/2017	06:38:46	2785	0.0	8.39	323.4	Bump Top Plug 2150-2750				
12/29/2017	06:38:47	2713	0.0	8.39	323.4	End Displacement				
12/29/2017	06:38:49	2727	0.0	8.40	323.4	Reset Total, Vol = 313 bbl				
12/29/2017	06:38:50	2752	0.0	8.40	323.4	1 Bbl Spacer to Surface				
12/29/2017	06:39:27	2740	0.0	8.39	323.4					
12/29/2017	06:40:27	2792	0.0	8.40	323.4					
12/29/2017	06:41:27	2794	0.0	8.40	323.4					
12/29/2017	06:42:27	2159	0.0	8.40	323.4					
12/29/2017	06:43:06	21	0.0	8.40	323.4	Floats Hold, 3 bbls Back				
12/29/2017	06:43:27	23	0.0	8.40	323.4					
12/29/2017	06:44:27	25	0.0	8.40	323.4					
12/29/2017	06:45:27	164	1.0	8.40	323.5					
12/29/2017	06:46:27	1890	2.2	8.39	325.3					
12/29/2017	06:47:08	2950	0.0	8.39	326.6	Start 15 min, 3K Casing Test				
12/29/2017	06:47:27	2945	0.0	8.39	326.6					
12/29/2017	06:48:27	2977	0.0	8.40	326.6					
12/29/2017	06:49:27	2978	0.0	8.40	326.6					
12/29/2017	06:50:27	2991	0.0	8.40	326.6					

Well Papa Jo 2-25 29N2-8HZ			Field Wattenberg		Job Start Dec/29/2017	Customer Anadarko		Job Number D8WD-00930
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
12/29/2017	06:52:27	3030	0.0	8.40	326.6			
12/29/2017	06:53:27	3047	0.0	8.40	326.6			
12/29/2017	06:54:27	3065	0.0	8.40	326.6			
12/29/2017	06:55:27	3081	0.0	8.40	326.6			
12/29/2017	06:56:27	3099	0.0	8.40	326.6			
12/29/2017	06:57:27	3117	0.0	8.40	326.6			
12/29/2017	06:58:27	3133	0.0	8.40	326.6			
12/29/2017	06:59:27	3150	0.0	8.40	326.6			
12/29/2017	07:00:27	3166	0.0	8.40	326.6			
12/29/2017	07:01:27	3182	0.0	8.40	326.6			
12/29/2017	07:02:27	3171	0.0	8.40	326.6			
12/29/2017	07:03:27	17	0.0	8.39	326.6			
12/29/2017	07:04:27	29	0.0	8.40	326.6			
12/29/2017	07:05:27	42	0.0	8.39	326.6			
12/29/2017	07:06:27	3189	4.1	8.39	329.8			
12/29/2017	07:07:27	2398	4.1	8.39	334.0			
12/29/2017	07:07:49	1959	0.0	8.40	334.8	Tool Open, 4400 psi		
12/29/2017	07:08:03	1890	0.0	8.40	334.8	Pump 3 bbl Wet Shoe		
12/29/2017	07:08:27	1841	0.0	8.40	334.8			
12/29/2017	07:08:57	1400	0.0	8.40	334.8	End Job		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.1	N2	Mud	Maximum Rate 8.8	Total Slurry 11.4	Mud 0.0	Spacer 0.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 4329	Final 19	Average 912	Bump Plug to 2750	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 391.6 bbl		Displacement 0.0 bbl	Mix Water Temp 73 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
						Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Joe Wallem			Schlumberger Supervisor Ryan Drilling/Sheldon Bell			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
						-	-		