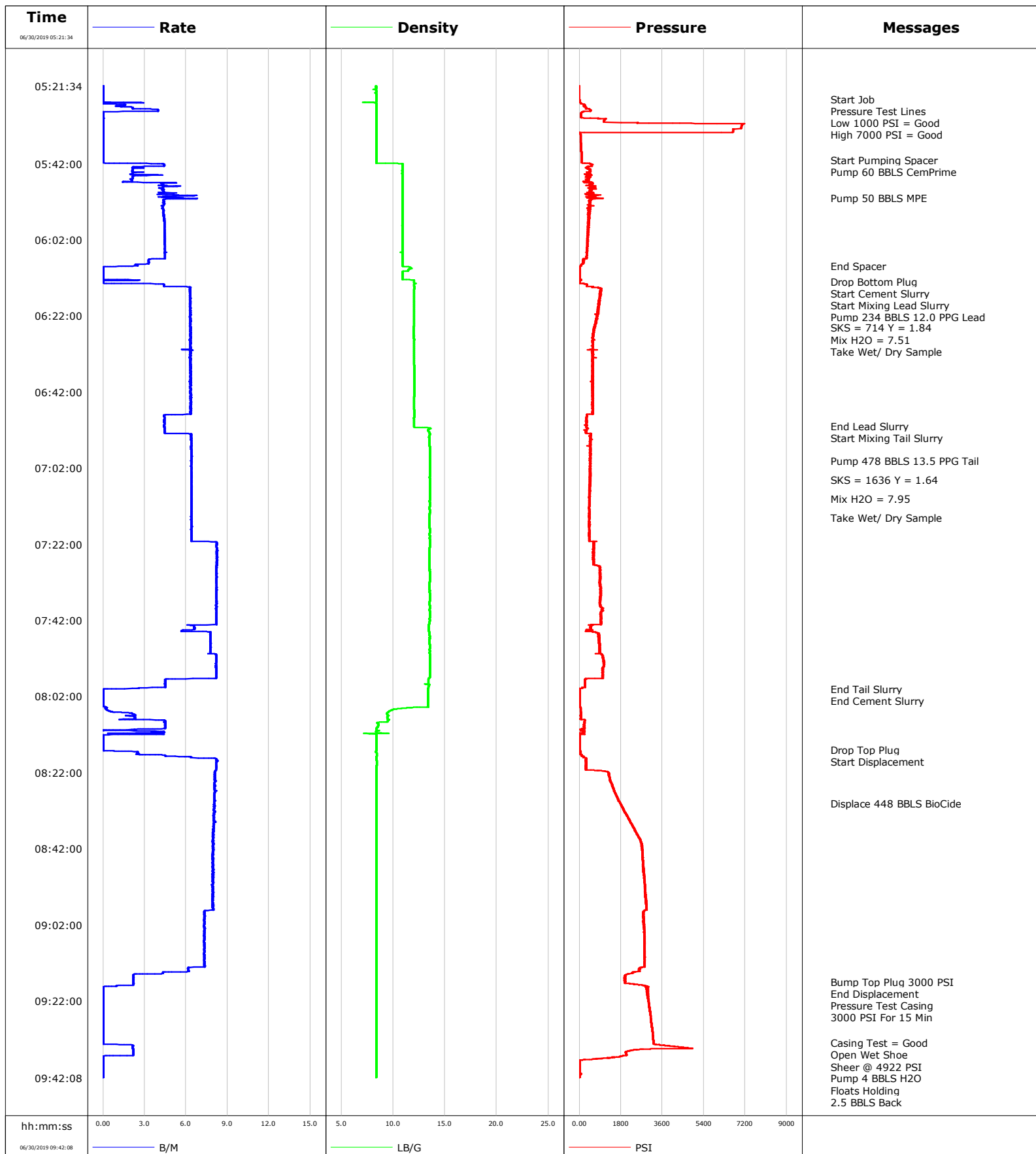


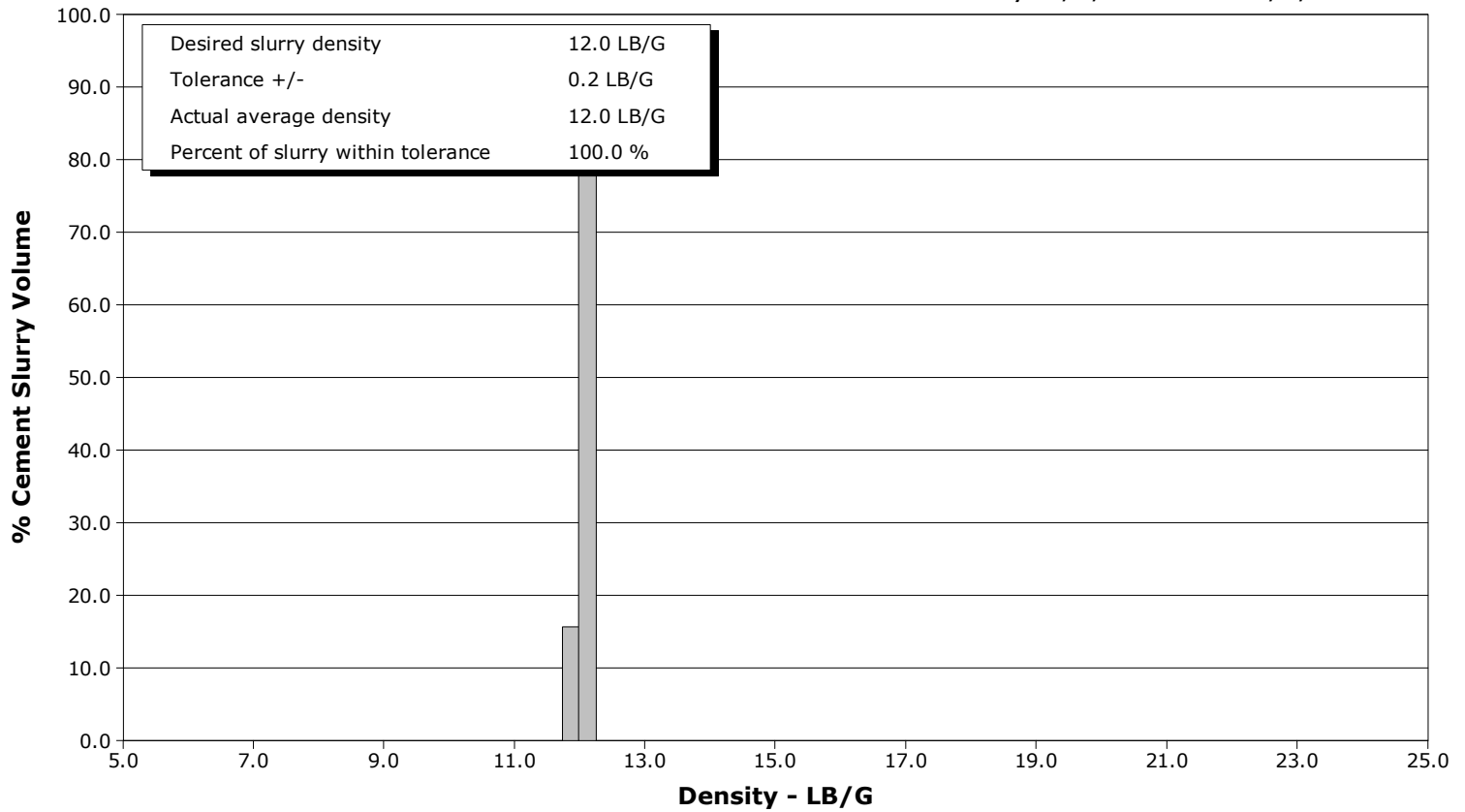
Well	MC 306HZ	Client	Anadarko
Field	Wattenberg	SIR No.	21128
Engineer	Conley Jensen/ Sheldon Bell	Job Type	5.5" Monobore
Country	United States	Job Date	06-30-2019



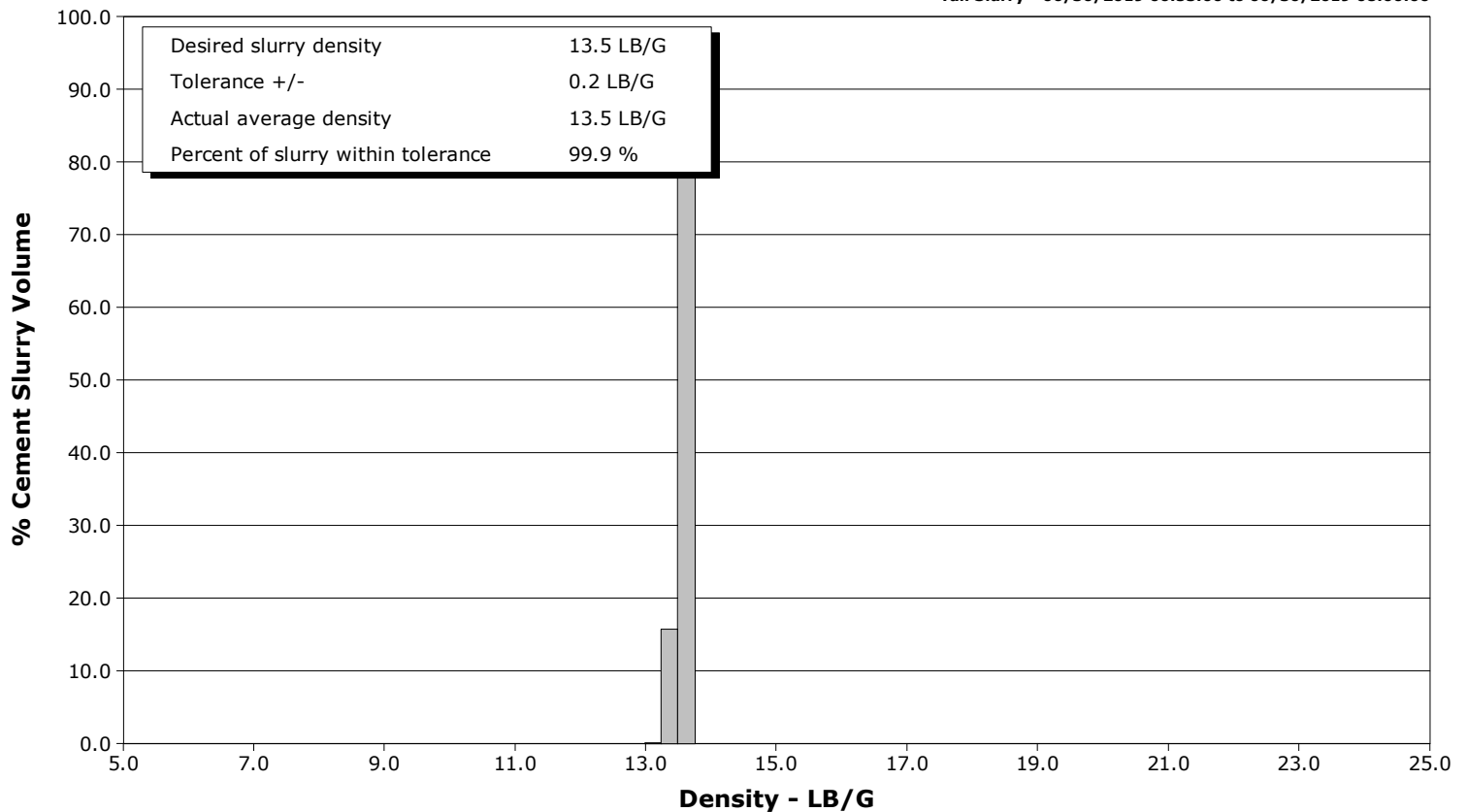
Well MC 306HZ
Field Wattenberg
Engineer Conley Jensen/ Sheldon Bell
Country United States

Client Anadarko
SIR No. 21128
Job Type 5.5" Monobore
Job Date 06-30-2019

Lead Slurry - 06/30/2019 06:14:00 to 06/30/2019 06:51:00



Tail Slurry - 06/30/2019 06:53:00 to 06/30/2019 08:00:00



Cementing Service Report

				Customer Anadarko			Job Number 21128										
Well MC 306HZ			Location (legal)			Schlumberger Location CWY			Job Start Jun/30/2019								
Field Wattenberg		Formation Name/Type Shale			Deviation deg		Bit Size 8.5 in		Well MD 19297.0 ft		Well TVD 7680.0 ft						
County Weld		State/Province California			BHP psi		BHST 230 degF		BHCT 230 degF		Pore Press. Gradient lb/gal						
Well Master 0065881621		API/UWI															
Rig Name Precision 564		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		1875.0		8.6		36.0		J55		8RD			
						19292.0		5.5		17.0		P110		8RD			
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		No. of Shots		Total Interval			
Service Instructions Perform 5.5" Monobore Per Proposal Design.						ft		ft						ft			
						ft		ft						Diameter			
						ft		ft						in			
		Treat Down Casing		Displacement 448.0 bbl		Packer Type		Packer Depth ft									
		Tubing Vol. bbl		Casing Vol. 448.0 bbl		Annular Vol. 801.0 bbl		Openhole Vol. 1262.0 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 1980 psi						Shoe Type Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 19293.0 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 Jun/30/2019 00:00		Arrived on Location Jun/30/2019 00:00		Leave Location Jun/30/2019		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 19284.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
06/30/2019	05:21:34	-1	0.0	8.35	0.0	Started Acquisition											
06/30/2019	05:23:04	-1	0.0	8.35	0.0												
06/30/2019	05:24:34	-2	0.0	8.36	0.0												
06/30/2019	05:25:00	-1	0.0	8.36	0.0	Start Job											
06/30/2019	05:26:04	52	1.3	8.35	0.2												
06/30/2019	05:27:34	280	2.1	8.36	2.3												
06/30/2019	05:29:04	80	0.0	8.36	5.2												
06/30/2019	05:30:00	113	0.0	8.36	5.2	Low 1000 PSI = Good											
06/30/2019	05:30:34	1070	0.0	8.36	5.2												
06/30/2019	05:32:00	6996	0.0	8.36	5.2	High 7000 PSI = Good											
06/30/2019	05:32:04	6993	0.0	8.36	5.2												
06/30/2019	05:33:34	6621	0.0	8.36	5.2												
06/30/2019	05:35:04	46	0.0	8.37	5.2												
06/30/2019	05:36:34	61	0.0	8.36	5.2												
06/30/2019	05:38:04	76	0.0	8.37	5.2												
06/30/2019	05:39:34	87	0.0	8.36	5.2												
06/30/2019	05:41:00	93	0.0	8.36	5.2	Start Pumping Spacer											
06/30/2019	05:41:04	94	0.0	8.36	5.2												
06/30/2019	05:42:00	485	3.9	10.80	0.2	Pump 60 BBLS CemPrime											
06/30/2019	05:42:34	523	4.4	10.91	2.7												
06/30/2019	05:44:04	439	2.1	10.89	7.3												

Well			Field	Job Start		Customer		Job Number	
MC 306HZ			Wattenberg		Jun/30/2019		Anadarko		21128
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/30/2019	05:47:04	536	5.3	10.90	17.7				
06/30/2019	05:48:34	471	4.3	10.91	24.5				
06/30/2019	05:50:04	289	4.0	10.92	31.0				
06/30/2019	05:51:00	282	5.7	10.92	35.7	Pump 50 BBLS MPE			
06/30/2019	05:51:34	460	4.4	10.92	38.7				
06/30/2019	05:53:04	429	4.2	10.91	45.2				
06/30/2019	05:54:34	383	4.4	10.92	51.7				
06/30/2019	05:56:04	470	4.4	10.91	58.3				
06/30/2019	05:57:34	406	4.4	10.90	64.9				
06/30/2019	05:59:04	393	4.4	10.89	71.6				
06/30/2019	06:00:34	345	4.4	10.91	78.2				
06/30/2019	06:02:04	342	4.5	10.91	84.9				
06/30/2019	06:03:34	343	4.5	10.92	91.6				
06/30/2019	06:05:04	302	4.5	10.93	98.3				
06/30/2019	06:06:34	321	4.5	10.93	105.0				
06/30/2019	06:08:04	136	3.3	10.93	110.5				
06/30/2019	06:09:00	21	1.4	10.95	113.0	End Spacer			
06/30/2019	06:09:34	6	0.0	11.76	0.0				
06/30/2019	06:11:04	6	0.0	10.91	0.0				
06/30/2019	06:12:34	57	2.3	11.89	0.1				
06/30/2019	06:13:00	6	0.0	12.03	0.5	Drop Bottom Plug			
06/30/2019	06:14:00	330	4.4	12.03	1.7	Start Cement Slurry			
06/30/2019	06:14:04	305	4.4	12.03	2.0				
06/30/2019	06:15:34	914	6.3	12.03	11.0				
06/30/2019	06:17:04	906	6.3	12.02	20.4				
06/30/2019	06:18:34	818	6.3	12.00	29.9				
06/30/2019	06:20:00	782	6.3	12.01	38.9	Pump 234 BBLS 12.0 PPG Lead			
06/30/2019	06:20:04	784	6.3	12.01	39.3				
06/30/2019	06:21:34	757	6.3	12.00	48.8				
06/30/2019	06:23:04	717	6.3	12.00	58.2				
06/30/2019	06:24:34	651	6.3	11.99	67.7				
06/30/2019	06:25:04	620	6.3	11.98	70.9	SKS = 714 Y = 1.84			
06/30/2019	06:25:16	621	6.3	11.98	72.1	Mix H2O = 7.51			
06/30/2019	06:25:26	617	6.3	11.98	73.2	Take Wet/ Dry Sample			
06/30/2019	06:26:04	602	6.3	11.98	77.2				
06/30/2019	06:27:34	587	6.3	11.98	86.7				
06/30/2019	06:29:04	585	6.3	12.01	96.1				
06/30/2019	06:30:34	578	6.3	12.01	105.6				
06/30/2019	06:32:04	583	6.3	12.01	115.0				
06/30/2019	06:33:34	584	6.3	12.01	124.5				
06/30/2019	06:35:04	575	6.3	12.03	134.0				
06/30/2019	06:36:34	556	6.3	12.05	143.4				
06/30/2019	06:38:04	559	6.3	12.04	152.9				
06/30/2019	06:39:34	596	6.3	12.04	162.4				
06/30/2019	06:41:04	584	6.3	12.04	171.9				
06/30/2019	06:42:34	550	6.3	12.04	181.4				
06/30/2019	06:44:04	544	6.3	12.03	190.9				
06/30/2019	06:45:34	557	6.3	12.02	200.4				
06/30/2019	06:47:04	556	6.3	12.04	209.9				
06/30/2019	06:48:34	331	4.4	12.04	218.2				
06/30/2019	06:50:04	302	4.4	12.01	224.8				
06/30/2019	06:51:00	317	4.4	12.01	229.0	End Lead Slurry			
06/30/2019	06:51:34	379	4.5	13.62	1.2				
06/30/2019	06:53:00	469	6.3	13.56	7.7	Start Mixing Tail Slurry			

Well			Field	Job Start		Customer	Job Number	
MC 306HZ			Wattenberg		Jun/30/2019		Anadarko	21128
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/30/2019	06:54:34	478	6.3	13.49	17.7			
06/30/2019	06:56:04	475	6.4	13.52	27.2			
06/30/2019	06:57:34	483	6.4	13.55	36.8			
06/30/2019	06:59:04	455	6.4	13.53	46.4			
06/30/2019	07:00:00	485	6.4	13.55	52.3	Pump 478 BBLs 13.5 PPG Tail		
06/30/2019	07:00:34	470	6.4	13.54	55.9			
06/30/2019	07:02:04	444	6.4	13.53	65.5			
06/30/2019	07:03:34	452	6.4	13.53	75.1			
06/30/2019	07:05:00	446	6.4	13.55	84.2	SKS = 1636 Y = 1.64		
06/30/2019	07:05:04	450	6.4	13.54	84.7			
06/30/2019	07:06:34	472	6.4	13.54	94.2			
06/30/2019	07:08:04	455	6.4	13.52	103.8			
06/30/2019	07:10:00	439	6.4	13.53	116.2	Mix H2O = 7.95		
06/30/2019	07:11:04	417	6.4	13.55	123.0			
06/30/2019	07:12:34	419	6.4	13.52	132.6			
06/30/2019	07:14:04	446	6.4	13.52	142.2			
06/30/2019	07:15:00	437	6.4	13.51	148.1	Take Wet/ Dry Sample		
06/30/2019	07:15:34	421	6.4	13.50	151.7			
06/30/2019	07:17:04	438	6.4	13.49	161.3			
06/30/2019	07:18:34	431	6.4	13.53	170.9			
06/30/2019	07:20:04	412	6.4	13.53	180.5			
06/30/2019	07:21:34	637	8.2	13.55	190.5			
06/30/2019	07:23:04	612	8.2	13.51	202.8			
06/30/2019	07:24:34	613	8.2	13.50	215.2			
06/30/2019	07:26:04	644	8.2	13.50	227.5			
06/30/2019	07:27:34	752	8.2	13.50	239.9			
06/30/2019	07:29:04	904	8.2	13.52	252.1			
06/30/2019	07:30:34	881	8.2	13.52	264.4			
06/30/2019	07:32:04	891	8.2	13.51	276.7			
06/30/2019	07:33:34	944	8.2	13.50	289.0			
06/30/2019	07:35:04	938	8.2	13.53	301.3			
06/30/2019	07:36:34	912	8.2	13.53	313.6			
06/30/2019	07:38:04	907	8.1	13.52	325.9			
06/30/2019	07:39:34	1003	8.2	13.52	338.2			
06/30/2019	07:41:04	923	8.2	13.53	350.5			
06/30/2019	07:42:34	951	8.2	13.48	362.8			
06/30/2019	07:44:04	472	6.6	13.45	373.6			
06/30/2019	07:45:34	816	7.8	13.51	383.8			
06/30/2019	07:47:04	868	7.8	13.51	395.5			
06/30/2019	07:48:34	829	7.8	13.53	407.1			
06/30/2019	07:50:04	877	7.8	13.52	418.8			
06/30/2019	07:51:34	992	8.2	13.54	430.7			
06/30/2019	07:53:04	1049	8.2	13.54	443.0			
06/30/2019	07:54:34	1020	8.2	13.53	455.3			
06/30/2019	07:56:04	1016	8.2	13.53	467.5			
06/30/2019	07:57:34	234	4.5	13.39	479.0			
06/30/2019	07:59:04	237	4.5	13.45	485.7			
06/30/2019	08:00:00	-2	0.3	13.36	0.0	End Tail Slurry		
06/30/2019	08:00:34	8	0.0	13.36	0.1			
06/30/2019	08:02:04	12	0.0	13.36	0.1			
06/30/2019	08:03:34	10	0.0	13.37	0.1			
06/30/2019	08:05:04	46	0.2	11.04	0.1			
06/30/2019	08:06:34	68	2.1	9.40	1.3			
06/30/2019	08:08:04	147	2.1	9.54	4.6			

Well			Field	Job Start		Customer	Job Number
MC 306HZ			Wattenberg	Jun/30/2019		Anadarko	21128
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/30/2019	08:11:04	221	2.8	8.41	16.2		
06/30/2019	08:12:34	6	0.0	8.37	19.8		
06/30/2019	08:14:04	12	0.0	8.36	19.8		
06/30/2019	08:15:34	14	0.0	8.36	19.8		
06/30/2019	08:16:00	13	0.0	8.36	19.8	Drop Top Plug	
06/30/2019	08:17:04	39	2.6	8.42	1.7		
06/30/2019	08:18:34	299	8.2	8.39	10.1		
06/30/2019	08:20:04	302	8.2	8.41	22.4		
06/30/2019	08:21:34	1057	8.1	8.38	34.7		
06/30/2019	08:23:04	1291	8.1	8.37	46.8		
06/30/2019	08:24:34	1370	8.1	8.37	58.9		
06/30/2019	08:26:04	1458	8.0	8.37	71.0		
06/30/2019	08:27:34	1546	8.0	8.37	83.2		
06/30/2019	08:29:04	1669	8.0	8.37	95.2		
06/30/2019	08:30:00	1758	8.0	8.37	102.7	Displace 448 BBLS BioCide	
06/30/2019	08:30:34	1815	8.0	8.37	107.3		
06/30/2019	08:32:04	1934	8.1	8.37	119.3		
06/30/2019	08:33:34	2071	8.0	8.37	131.3		
06/30/2019	08:35:04	2212	8.0	8.37	143.4		
06/30/2019	08:36:34	2350	8.0	8.37	155.4		
06/30/2019	08:38:04	2480	8.0	8.37	167.3		
06/30/2019	08:39:34	2631	7.9	8.37	179.2		
06/30/2019	08:41:04	2689	7.9	8.37	191.2		
06/30/2019	08:42:34	2717	8.0	8.37	203.1		
06/30/2019	08:44:04	2738	7.9	8.37	215.0		
06/30/2019	08:45:34	2740	7.9	8.37	226.9		
06/30/2019	08:47:04	2760	7.9	8.37	238.8		
06/30/2019	08:48:34	2800	7.9	8.37	250.7		
06/30/2019	08:50:04	2807	8.0	8.37	262.6		
06/30/2019	08:51:34	2834	7.9	8.37	274.5		
06/30/2019	08:53:04	2842	7.9	8.37	286.4		
06/30/2019	08:56:04	2881	7.9	8.37	310.2		
06/30/2019	08:57:34	2881	7.9	8.37	322.1		
06/30/2019	08:59:04	2755	7.3	8.37	333.5		
06/30/2019	09:00:34	2775	7.3	8.37	344.5		
06/30/2019	09:02:04	2797	7.3	8.37	355.5		
06/30/2019	09:03:34	2797	7.3	8.37	366.5		
06/30/2019	09:05:04	2796	7.3	8.37	377.4		
06/30/2019	09:06:34	2806	7.3	8.37	388.4		
06/30/2019	09:08:04	2812	7.3	8.37	399.4		
06/30/2019	09:09:34	2821	7.3	8.37	410.4		
06/30/2019	09:11:04	2802	7.3	8.37	421.3		
06/30/2019	09:12:34	2806	7.3	8.37	432.3		
06/30/2019	09:14:04	2577	6.2	8.37	442.2		
06/30/2019	09:15:34	1981	2.2	8.37	447.8		
06/30/2019	09:17:00	1976	2.2	8.36	451.0	Bump Top Plug 3000 PSI	
06/30/2019	09:17:04	1982	2.2	8.36	451.1		
06/30/2019	09:18:00	2712	1.0	8.36	453.0	Pressure Test Casing	
06/30/2019	09:18:34	2878	0.0	8.36	453.2		
06/30/2019	09:20:04	2924	0.0	8.37	453.2		
06/30/2019	09:21:34	2981	0.0	8.37	453.2		
06/30/2019	09:23:04	3011	0.0	8.37	453.2		
06/30/2019	09:24:34	3042	0.0	8.37	453.2		
06/30/2019	09:26:04	3071	0.0	8.37	453.2		

Well			Field		Job Start	Customer		Job Number
MC 306HZ			Wattenberg		Jun/30/2019	Anadarko		21128
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/30/2019	09:29:04	3130	0.0	8.37	453.2			
06/30/2019	09:30:34	3159	0.0	8.37	453.2			
06/30/2019	09:32:04	3187	0.0	8.37	453.2			
06/30/2019	09:33:00	3205	0.0	8.36	453.2	Casing Test = Good		
06/30/2019	09:33:34	3518	2.1	8.36	453.5			
06/30/2019	09:34:00	4218	2.1	8.36	454.4	Open Wet Shoe		
06/30/2019	09:34:30	3862	2.1	8.36	455.5	Sheer @ 4922 PSI		
06/30/2019	09:34:47	2472	2.2	8.37	456.1	Pump 4 BBLS H2O		
06/30/2019	09:35:04	2192	2.2	8.37	456.7			
06/30/2019	09:36:34	1767	0.0	8.37	459.5			
06/30/2019	09:37:54	9	0.0	8.37	459.5	Floats Holding		
06/30/2019	09:37:59	7	0.0	8.37	459.5	2.5 BBLS Back		
06/30/2019	09:38:04	6	0.0	8.37	459.5			
06/30/2019	09:39:34	9	0.0	8.37	459.5			
06/30/2019	09:39:40	8	0.0	8.37	459.5	End Job		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.3	N2	Mud	Maximum Rate 8.3	Total Slurry 1318.0	Mud 0.0	Spacer 11.6	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 7168	Final 7	Average 1156	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 712.0 bbl		Displacement 274.3 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative James Adkins			Schlumberger Supervisor Conley Jensen/ Sheldon Bell			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	