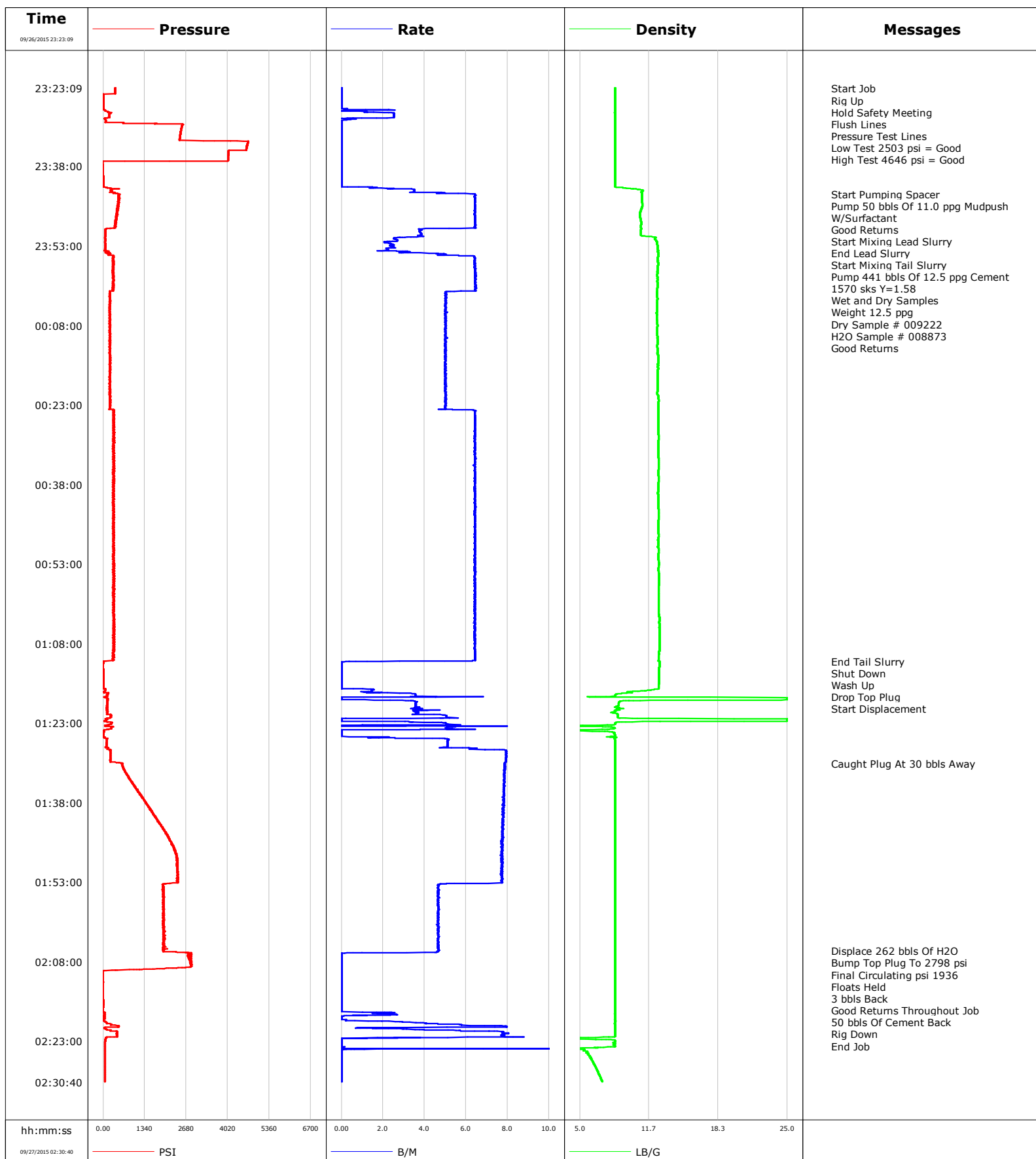


Well Waag 24
Field Wattenberg
Engineer Justin Zika/Leiker
Country United States

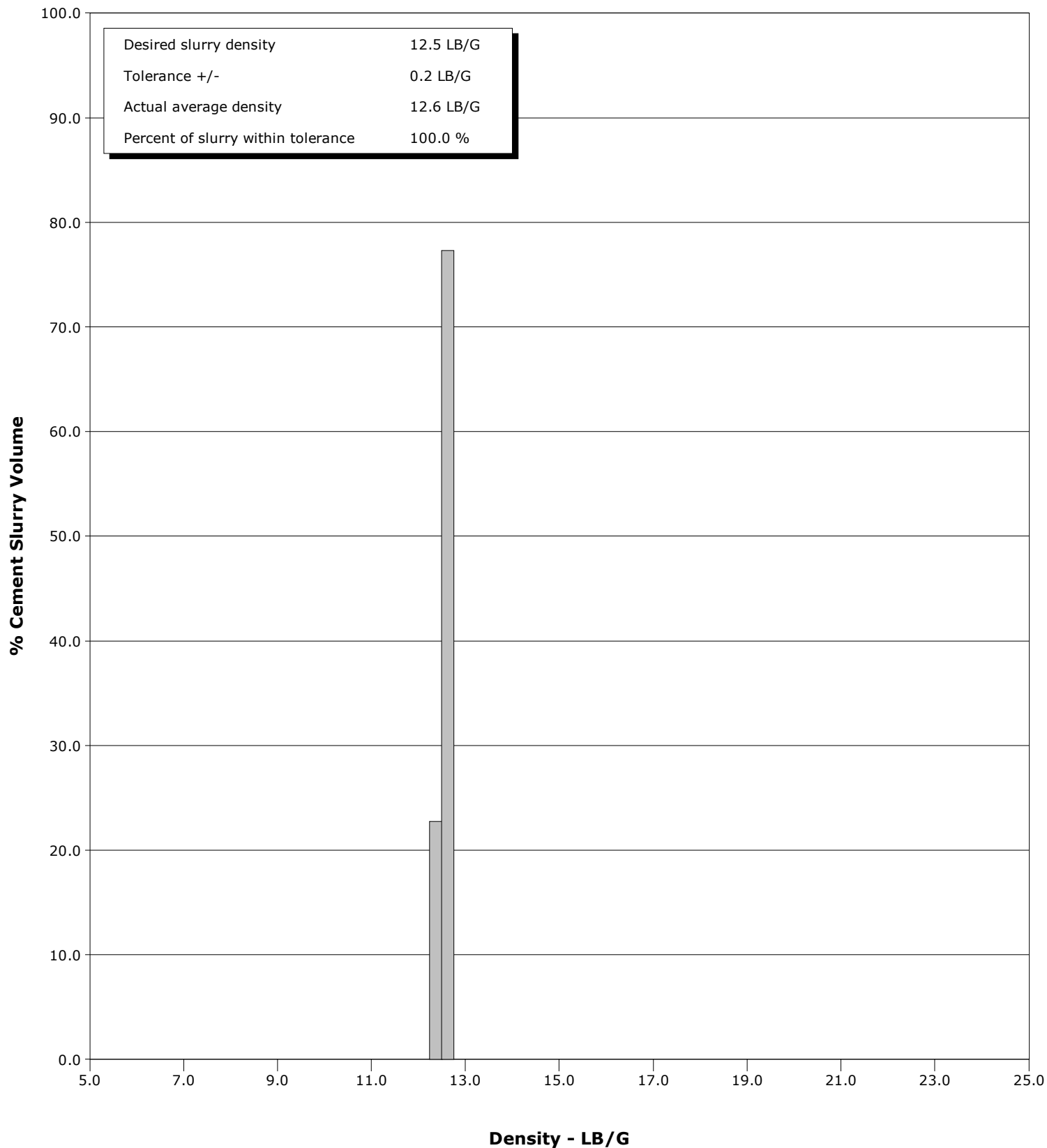
Client Extraction Oil Gas
SIR No. 2195936
Job Type Monobore
Job Date 09-26-2015



Well Waag 24
Field Wattenberg
Engineer Justin Zika/Leiker
Country United States

Client Extraction Oil Gas
SIR No. 2195936
Job Type Monobore
Job Date 09-26-2015

Cement Slurry - 09/26/2015 23:55:53 to 09/27/2015 01:07:20



Cementing Service Report

				Customer Extraction Oil & Gas			Job Number 2195936				
Well Waag 24 24			Location (legal) Cheyenne,WY			Schlumberger Location CWY			Job Start Sep/26/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 7.9 in		Well MD 11810.0 ft		Well TVD 7183.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 206 degF		BHCT 206 degF		Pore Press. Gradient lb/gal	
Well Master 0631593035		API/UWI 05123403520000									
Rig Name Savannah 802		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		11804.0		5.5		20.0	
						0.0		0.0		0.0	
Drilling Fluid Type Oil Mud		Max. Density 8.80 lb/gal		Plastic Viscosity 45.000 cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type Monobore				Perforations/Open Hole					
Max. Allowed Tub. Press 4500 psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Top, ft		Bottom, ft		shot/ft	
						ft		ft		No. of Shots	
						ft		ft		Total Interval ft	
						ft		ft		Diameter in	
						Treat Down Casing		Displacement 262.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 262.0 bbl		Annular Vol. 379.0 bbl	
										Openhole Vol. 656.0 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 9937 psi				Shoe Type Float				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 11804.0 ft				Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft	
Cement Head Type Single				Stage Tool Depth ft				Tail Pipe Size in			
Job Scheduled For Sep/26/2015 19:30		Arrived on Location Sep/26/2015 19:30		Leave Location Sep/26/2015 03:30		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 11795.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
09/26/2015	23:23:09	384	0.0	8.40	0.0	Started Acquisition					
09/26/2015	23:23:19	384	0.0	8.40	0.0	Start Job					
09/26/2015	23:23:21	384	0.0	8.40	0.0	Rig Up					
09/26/2015	23:23:22	384	0.0	8.40	0.0	Hold Safety Meeting					
09/26/2015	23:23:25	384	0.0	8.40	0.0	Pressure Test Lines					
09/26/2015	23:23:26	384	0.0	8.40	0.0	Low Test 2503 psi = Good					
09/26/2015	23:23:27	384	0.0	8.40	0.0	High Test 4646 psi = Good					
09/26/2015	23:24:49	0	0.0	8.40	0.0						
09/26/2015	23:26:29	0	0.0	8.40	0.0						
09/26/2015	23:28:09	184	2.5	8.39	1.3						
09/26/2015	23:29:49	656	0.0	8.40	3.3						
09/26/2015	23:31:29	2501	0.0	8.40	3.3						
09/26/2015	23:33:09	3251	0.0	8.40	3.3						
09/26/2015	23:34:49	4622	0.0	8.40	3.3						
09/26/2015	23:36:29	4028	0.0	8.40	3.3						
09/26/2015	23:38:09	-11	0.0	8.40	3.3						
09/26/2015	23:39:49	0	0.0	8.40	3.3						
09/26/2015	23:41:29	5	0.0	8.39	3.3						
09/26/2015	23:43:09	484	6.2	10.99	7.4	Start Pumping Spacer					
09/26/2015	23:43:10	491	6.3	10.99	7.5	Pump 50 bbls Of 11.0 ppg Mudpush					
09/26/2015	23:43:11	507	6.3	10.99	7.6	W/Surfactant					

Well			Field	Job Start		Customer		Job Number
Waag 24 24			Wattenberg	Sep/26/2015		Extraction Oil & Gas		2195936
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
09/26/2015	23:44:49	489	6.4	11.00	18.1			
09/26/2015	23:46:29	464	6.4	10.86	28.8			
09/26/2015	23:48:09	405	6.4	10.87	39.5			
09/26/2015	23:49:49	98	3.7	10.91	50.1			
09/26/2015	23:51:29	59	2.6	12.30	56.3			
09/26/2015	23:52:06	72	2.7	12.37	57.9	Start Mixing Lead Slurry		
09/26/2015	23:52:08	72	2.6	12.38	58.0	Start Mixing Tail Slurry		
09/26/2015	23:52:09	55	2.5	12.38	58.0	Pump 441 bbls Of 12.5 ppg Cement		
09/26/2015	23:52:10	56	2.5	12.39	58.1	Dry Sample # 009222		
09/26/2015	23:52:11	54	2.3	12.39	58.1	Good Returns		
09/26/2015	23:53:09	74	2.5	12.52	60.4			
09/26/2015	23:54:49	342	5.7	12.56	65.6			
09/26/2015	23:56:29	319	6.4	12.54	76.3			
09/26/2015	23:58:09	322	6.4	12.48	87.0			
09/26/2015	23:59:49	317	6.5	12.48	97.8			
09/27/2015	00:01:29	338	6.5	12.44	108.5			
09/27/2015	00:03:09	223	5.0	12.47	117.0			
09/27/2015	00:04:49	208	5.0	12.44	125.4			
09/27/2015	00:06:29	210	5.0	12.41	133.7			
09/27/2015	00:08:09	218	5.0	12.48	142.1			
09/27/2015	00:09:49	213	5.0	12.47	150.4			
09/27/2015	00:11:29	220	5.0	12.48	158.8			
09/27/2015	00:13:09	210	5.0	12.48	167.1			
09/27/2015	00:14:49	227	5.0	12.54	175.5			
09/27/2015	00:16:29	219	5.0	12.52	183.8			
09/27/2015	00:18:09	220	5.0	12.50	192.1			
09/27/2015	00:19:49	218	5.0	12.49	200.5			
09/27/2015	00:21:29	231	5.0	12.57	208.8			
09/27/2015	00:23:09	221	5.0	12.57	217.2			
09/27/2015	00:24:49	340	6.4	12.53	226.8			
09/27/2015	00:26:29	339	6.4	12.55	237.5			
09/27/2015	00:28:09	340	6.4	12.55	248.2			
09/27/2015	00:29:49	320	6.4	12.57	258.9			
09/27/2015	00:31:29	350	6.4	12.54	269.7			
09/27/2015	00:33:09	346	6.4	12.58	280.4			
09/27/2015	00:34:49	346	6.4	12.59	291.1			
09/27/2015	00:36:29	352	6.4	12.58	301.8			
09/27/2015	00:38:09	340	6.4	12.56	312.5			
09/27/2015	00:39:49	345	6.4	12.52	323.2			
09/27/2015	00:41:29	322	6.4	12.53	333.9			
09/27/2015	00:43:09	344	6.4	12.58	344.7			
09/27/2015	00:44:49	328	6.4	12.57	355.4			
09/27/2015	00:46:29	329	6.4	12.56	366.1			
09/27/2015	00:48:09	322	6.4	12.56	376.8			
09/27/2015	00:49:49	329	6.4	12.52	387.5			
09/27/2015	00:51:29	327	6.4	12.55	398.2			
09/27/2015	00:53:09	334	6.4	12.62	408.9			
09/27/2015	00:54:49	342	6.4	12.63	419.7			
09/27/2015	00:56:29	346	6.5	12.64	430.4			
09/27/2015	00:58:09	341	6.5	12.58	441.1			
09/27/2015	00:59:49	340	6.4	12.59	451.8			
09/27/2015	01:01:29	337	6.4	12.60	462.5			
09/27/2015	01:03:09	349	6.4	12.67	473.2			
09/27/2015	01:04:49	334	6.4	12.67	483.9			

Well			Field	Job Start		Customer	Job Number
Waag 24 24			Wattenberg	Sep/26/2015		Extraction Oil & Gas	2195936
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/27/2015	01:08:09	354	6.4	12.70	505.3		
09/27/2015	01:09:49	315	6.4	12.62	516.0		
09/27/2015	01:11:16	105	6.3	12.57	525.4	End Tail Slurry	
09/27/2015	01:11:19	58	2.8	12.62	525.6	Shut Down	
09/27/2015	01:11:20	17	2.8	12.67	525.7	Drop Top Plug	
09/27/2015	01:11:21	9	1.9	12.67	525.7	Start Displacement	
09/27/2015	01:11:29	2	0.0	12.70	525.8		
09/27/2015	01:13:09	1	0.0	12.65	525.8		
09/27/2015	01:14:49	9	0.0	12.63	525.8		
09/27/2015	01:16:29	10	0.0	12.61	525.8		
09/27/2015	01:18:09	72	0.0	17.59	529.9		
09/27/2015	01:19:49	140	3.6	8.61	534.0		
09/27/2015	01:21:29	255	5.0	8.66	540.1		
09/27/2015	01:23:09	264	5.0	8.43	545.3		
09/27/2015	01:24:49	15	0.0	8.36	550.4		
09/27/2015	01:26:29	117	5.1	8.39	554.1		
09/27/2015	01:28:09	239	7.9	8.39	563.5		
09/27/2015	01:29:49	230	7.9	8.39	576.7		
09/27/2015	01:30:37	621	7.9	8.39	583.0	Caught Plug At 30 bbls Away	
09/27/2015	01:31:29	655	7.9	8.39	589.8		
09/27/2015	01:33:09	816	7.8	8.39	602.9		
09/27/2015	01:34:49	1007	7.9	8.39	616.0		
09/27/2015	01:36:29	1195	7.8	8.39	629.0		
09/27/2015	01:38:09	1409	7.8	8.39	642.0		
09/27/2015	01:39:49	1575	7.8	8.39	655.0		
09/27/2015	01:41:29	1753	7.8	8.39	668.0		
09/27/2015	01:43:09	1962	7.8	8.39	680.9		
09/27/2015	01:44:49	2125	7.8	8.39	693.8		
09/27/2015	01:46:29	2272	7.7	8.39	706.7		
09/27/2015	01:48:09	2366	7.7	8.39	719.6		
09/27/2015	01:49:49	2374	7.7	8.39	732.5		
09/27/2015	01:51:29	2416	7.7	8.39	745.4		
09/27/2015	01:53:09	2404	7.7	8.39	758.3		
09/27/2015	01:54:49	1956	4.6	8.39	766.4		
09/27/2015	01:56:29	1945	4.7	8.39	774.1		
09/27/2015	01:58:09	1951	4.7	8.39	781.9		
09/27/2015	01:59:49	1980	4.6	8.39	789.7		
09/27/2015	02:01:29	1958	4.7	8.39	797.4		
09/27/2015	02:03:09	1931	4.7	8.39	805.2		
09/27/2015	02:04:49	1962	4.7	8.39	812.9		
09/27/2015	02:06:00	1938	4.7	8.39	818.5	Displace 262 bbls Of H2O	
09/27/2015	02:06:29	2853	0.0	8.39	819.9		
09/27/2015	02:08:09	2806	0.0	8.39	819.9		
09/27/2015	02:09:49	-16	0.0	8.39	819.9		
09/27/2015	02:11:29	-1	0.0	8.39	819.9		
09/27/2015	02:13:09	-2	0.0	8.39	819.9		
09/27/2015	02:14:49	-1	0.0	8.39	819.9		
09/27/2015	02:16:29	0	0.0	8.39	819.9		
09/27/2015	02:18:09	14	0.5	8.40	821.3		
09/27/2015	02:19:49	268	5.7	8.39	823.6		
09/27/2015	02:21:29	460	7.8	8.39	833.0		
09/27/2015	02:23:09	63	0.0	8.40	839.7		
09/27/2015	02:24:49	60	0.0	5.40	841.3		
09/27/2015	02:26:29	60	0.0	6.15	841.3		

Well Waag 24 24	Field Wattenberg	Job Start Sep/26/2015	Customer Extraction Oil & Gas	Job Number 2195936
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.9	N2	Mud	Maximum Rate 25.0		Total Slurry 441.0	Mud 0.0	Spacer 50.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 4695	Final 1938	Average 731	Bump Plug to 2798	Breakdown	Type		Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 441.0 bbl		Displacement 262.0 bbl		Mix Water Temp 70 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 50.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Shawn McIntyre				Schlumberger Supervisor Justin Zika/Leiker				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-