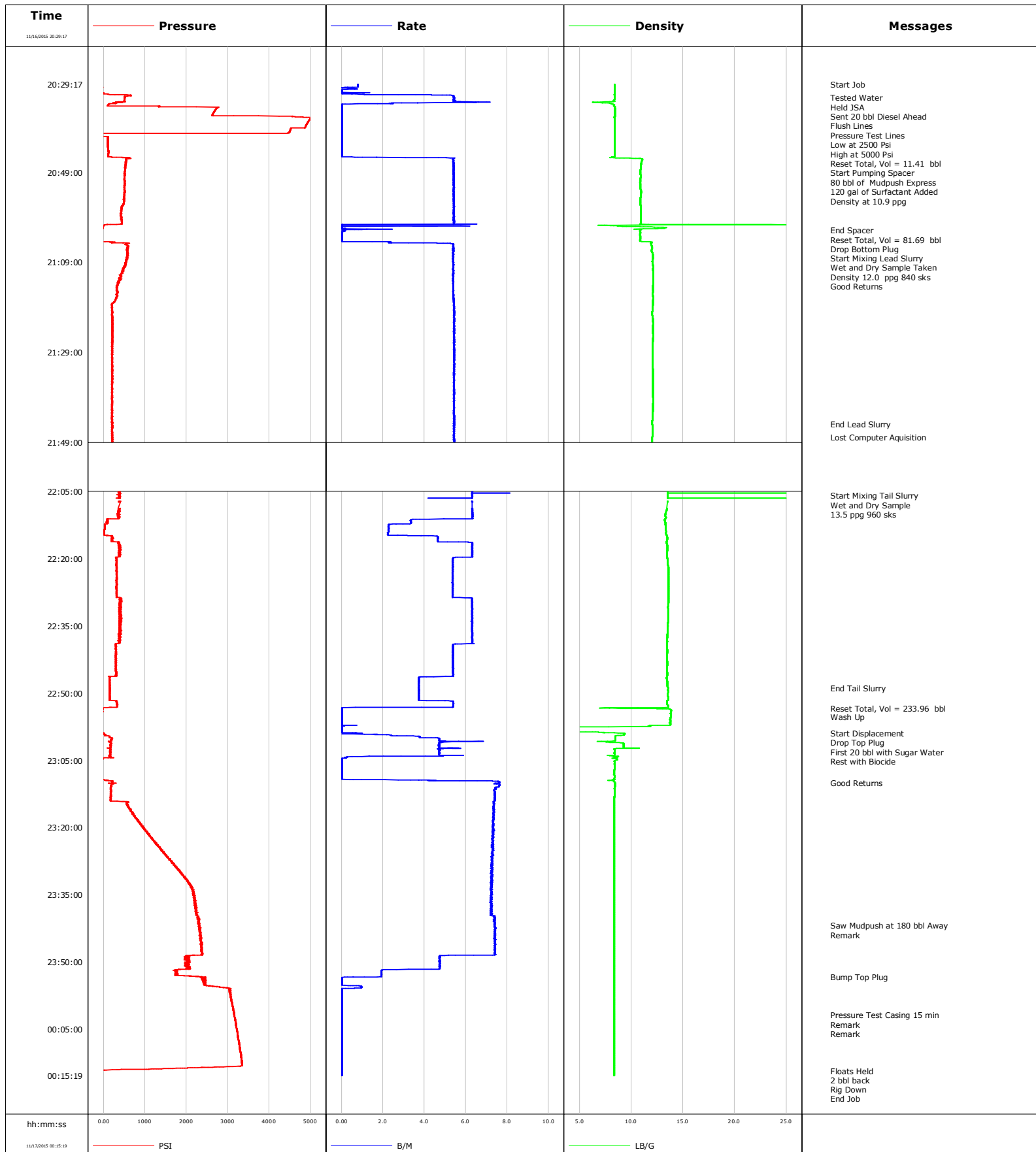


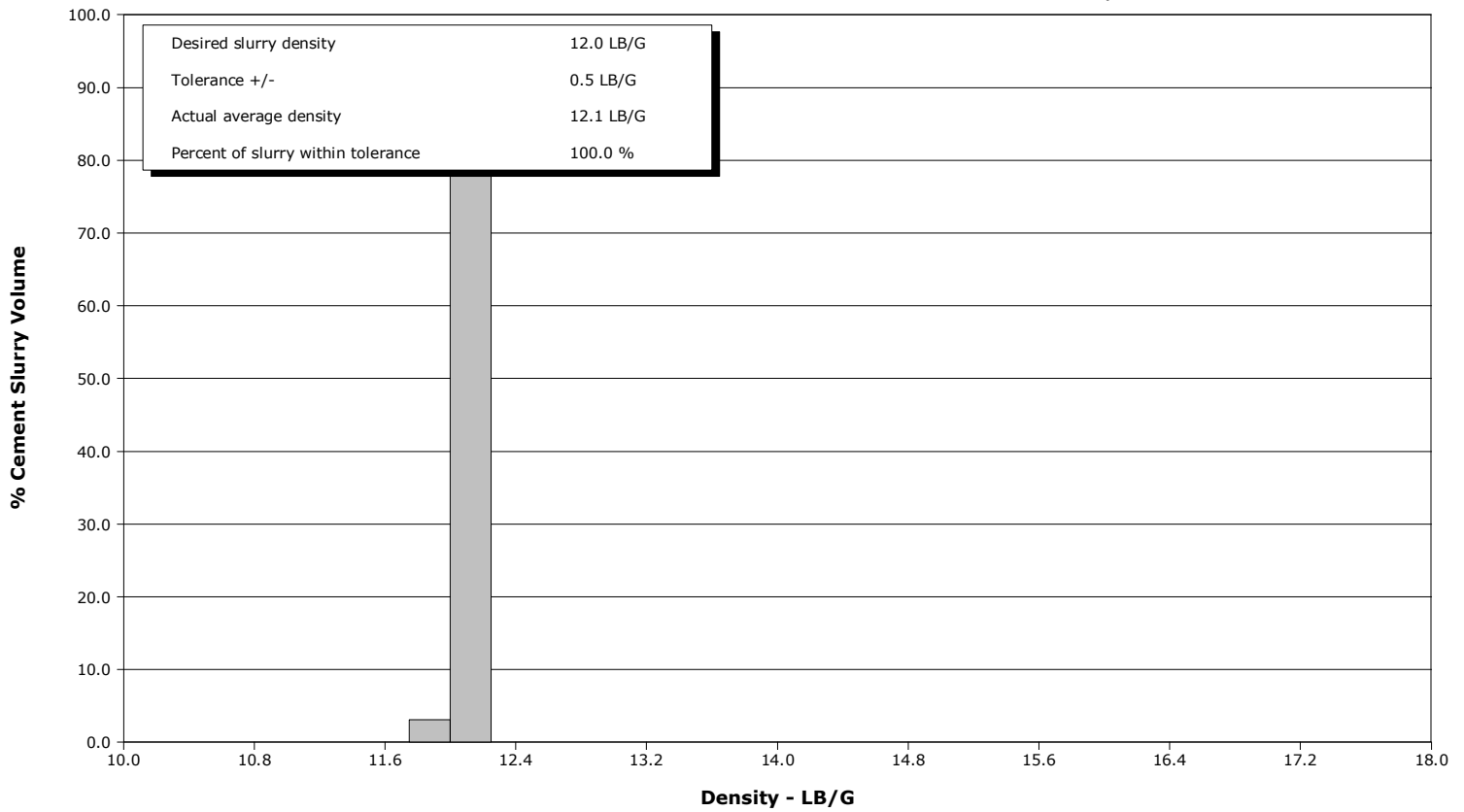
<b>Well</b>	Sunflower 25G-17HZ	<b>Client</b>	Anadarko
<b>Field</b>	Wattenberg	<b>SIR No.</b>	CWJN-01514
<b>Engineer</b>	Cash/Valerio	<b>Job Type</b>	Monobore
<b>Country</b>	United States	<b>Job Date</b>	11-16-2015



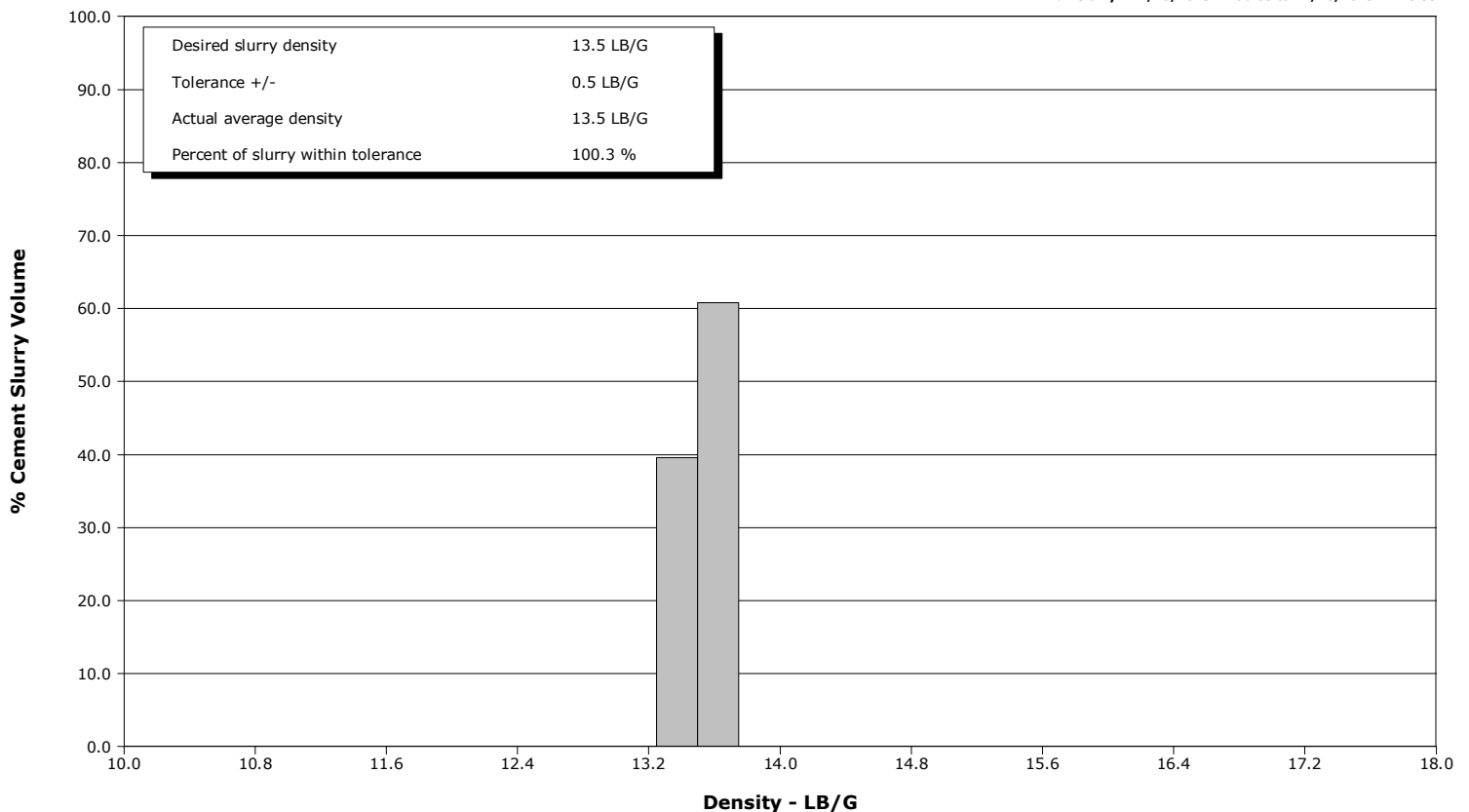
**Well** Sunflower 25G-17HZ  
**Field** Wattenberg  
**Engineer** Cash/Valerio  
**Country** United States

**Client** Anadarko  
**SIR No.** CWJN-01514  
**Job Type** Monobore  
**Job Date** 11-16-2015

Lead Slurry - 11/16/2015 21:04:59 to 11/16/2015 21:45:00



Tail Slurry - 11/16/2015 22:06:00 to 11/16/2015 22:48:58





# Cementing Service Report

				Customer Anadarko		Job Number CWJN-01514			
Well Sunflower 25G-17HZ 25G-17HZ			Location (legal) 2173		Schlumberger Location Jeff Eulberg		Job Start Nov/16/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg	Bit Size 8.5 in	Well MD 12655.6 ft		Well TVD 7176.0 ft	
County Weld		State/Province Colorado		BHP psi	BHST 232 degF	BHCT 227 degF	Pore Press. Gradient lb/gal		
Well Master Cheyenne, WY		API/UWI 05123420720000							
Rig Name Precision 461	Drilled For Oil and Gas	Service Via Land		Casing/Liner					
				Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development		12655.6	5.5	17.0	P-110	VAM	
				1855.0	9.6	36.0	J-55	LTC	
Drilling Fluid Type LT OBM		Max. Density 9.50 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe					
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line Cementing	Job Type Monobore								
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection 5 1/2" Cement Head		Perforations/Open Hole					
				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
				ft	ft			ft	
				ft	ft			Diameter	
				ft	ft			in	
				Treat Down Casing	Displacement 291.6 bbl	Packer Type	Packer Depth ft		
				Tubing Vol. bbl	Casing Vol. 294.0 bbl	Annular Vol. 88.9 bbl	Openhole Vol. 440.7 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 9250 psi				Shoe Type Float		Squeeze Type			
Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated	<input type="checkbox"/>	Shoe Depth 12655.6 ft		Tool Type			
No. Centralizers	Top Plugs	Bottom Plugs		Stage Tool Type		Tool Depth ft			
Cement Head Type Double				Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Nov/16/2015	Arrived on Location Nov/16/2015	Leave Location Nov/16/2015		Collar Type Float		Tail Pipe Depth ft			
				Collar Depth 12570.9 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/16/2015	20:29:17	-58	0.8	8.38	0.0	Started Acquisition			
11/16/2015	20:29:24	-57	0.8	8.38	0.1	Start Job			
11/16/2015	20:32:15	512	5.5	8.37	4.4	Tested Water			
11/16/2015	20:32:16	512	5.5	8.37	4.5	Sent 20 bbl Diesel Ahead			
11/16/2015	20:33:12	360	6.1	7.49	9.6	Flush Lines			
11/16/2015	20:34:15	1343	0.0	8.40	11.4	Pressure Test Lines			
11/16/2015	20:35:32	2664	0.0	8.43	11.4	Low at 2500 Psi			
11/16/2015	20:38:52	4872	0.0	8.38	11.4	High at 5000 Psi			
11/16/2015	20:40:39	-52	0.0	8.39	11.4	Reset Total, Vol = 11.41 bbl			
11/16/2015	20:46:42	544	5.4	10.98	17.5	Start Pumping Spacer			
11/16/2015	20:46:56	538	5.4	10.96	18.8	80 bbl of Mudpush Express			
11/16/2015	20:46:57	538	5.4	10.96	18.9	120 gal of Surfactant Added			
11/16/2015	20:46:59	530	5.4	10.96	19.1	Density at 10.9 ppg			
11/16/2015	21:01:52	-31	0.2	10.84	93.1	End Spacer			
11/16/2015	21:01:59	-33	0.1	10.85	93.1	Reset Total, Vol = 81.69 bbl			
11/16/2015	21:02:49	-33	0.0	10.86	0.0	Drop Bottom Plug			
11/16/2015	21:04:59	514	5.4	11.94	2.5	Start Mixing Lead Slurry			
11/16/2015	21:05:12	570	5.4	11.96	3.7	Wet and Dry Sample Taken			
11/16/2015	21:05:13	595	5.4	11.96	3.8	Good Returns			
11/16/2015	21:45:00	199	5.5	12.02	219.8	End Lead Slurry			
11/16/2015	21:48:00	208	5.4	12.03	236.1	Lost Computer Aquisition			

Well			Field		Job Start		Customer		Job Number	
Sunflower 25G-17HZ 25G-17HZ			Wattenberg		Nov/16/2015		Anadarko		CWJN-01514	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/16/2015	22:06:00	366	6.3	13.51	2476238.0	Start Mixing Tail Slurry				
11/16/2015	22:07:26	416	6.3	13.52	2476245.3	Wet and Dry Sample				
11/16/2015	22:48:58	142	3.7	13.55	215.7	End Tail Slurry				
11/16/2015	22:53:22	-23	0.0	7.89	234.0	Reset Total, Vol = 233.96 bbl				
11/16/2015	22:53:27	-26	0.0	11.59	0.0	Wash Up				
11/16/2015	22:59:00	-4	1.0	9.38	0.2	Start Displacement				
11/16/2015	23:00:00	192	4.6	8.45	2.9	Drop Top Plug				
11/16/2015	23:00:10	202	4.7	8.45	3.7	First 20 bbl with Sugar Water				
11/16/2015	23:00:15	189	4.7	8.45	4.1	Rest with Biocide				
11/16/2015	23:10:00	202	7.6	8.40	27.0	Good Returns				
11/16/2015	23:41:52	2315	7.4	8.36	260.3	Saw Mudpush at 180 bbl Away				
11/16/2015	23:42:56	2317	7.4	8.36	268.2	Remark				
11/16/2015	23:53:23	2376	0.0	8.36	327.3	Bump Top Plug				
11/17/2015	00:01:50	3159	0.0	8.35	327.9	Pressure Test Casing 15 min				
11/17/2015	00:02:46	3179	0.0	8.36	327.9	Remark				
11/17/2015	00:02:47	3179	0.0	8.36	327.9	Remark				
11/17/2015	00:14:14	-38	0.0	8.36	327.9	Floats Held				
11/17/2015	00:14:27	-40	0.0	8.36	327.9	2 bbl back				
11/17/2015	00:14:42	-42	0.0	8.36	327.9	Rig Down				

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.9	N2	Mud	Maximum Rate 7.7		Total Slurry 557.0	Mud 0.0	Spacer 82.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3355	Final -43	Average 1286	Bump Plug to 2300	Breakdown	Type FreshWater	Volume 292.0 bbl		Density 8.34 lb/gal
Avg. N2 Percent %		Designed Slurry Volume 551.0 bbl		Displacement 292.0 bbl	Mix Water Temp 66 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 30.0 bbl
						Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
Company Representative			Cash/Valerio			-		-