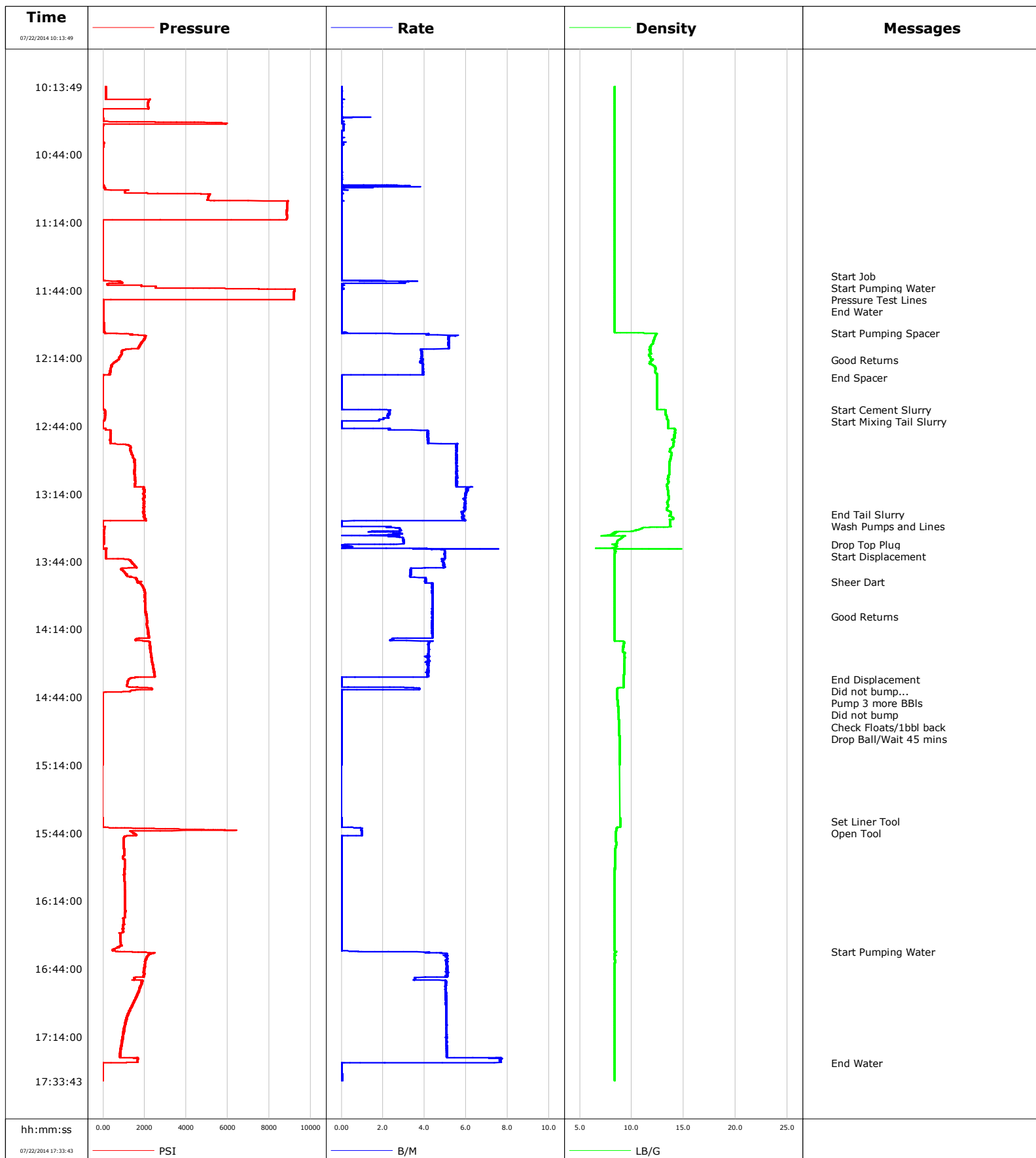


**Well** NRC 30C-32HZ  
**Field** Wattenberg  
**Engineer** Jonathan Rakowitz  
**Country** United States

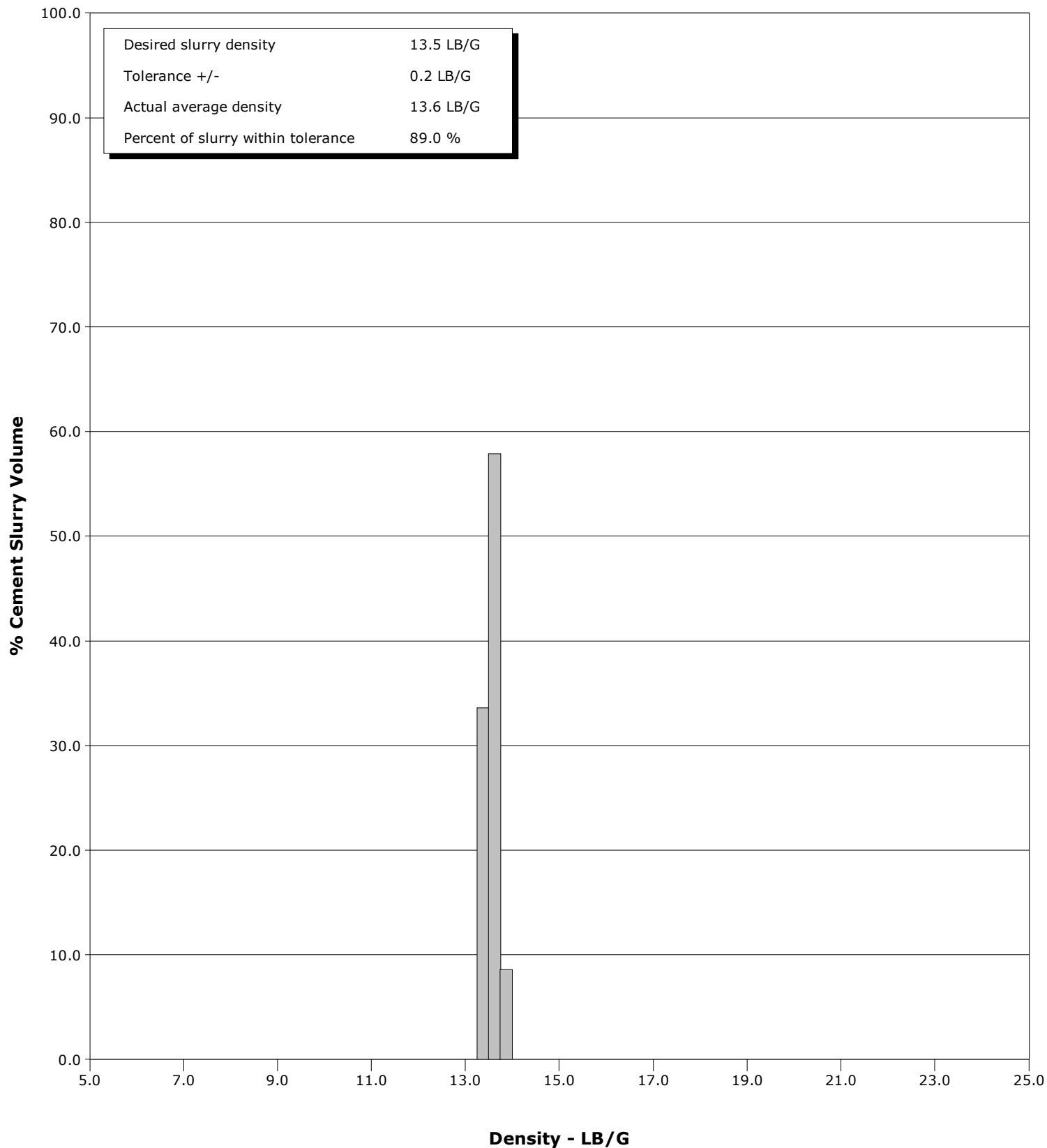
**Client** Anadarko  
**SIR No.** CWJN-00212  
**Job Type** Liner  
**Job Date** 07-22-2014



**Well** NRC 30C-32HZ  
**Field** Wattenberg  
**Engineer** Jonathan Rakowitz  
**Country** United States

**Client** Anadarko  
**SIR No.** CWJN-00212  
**Job Type** Liner  
**Job Date** 07-22-2014

**Cement Slurry - 07/22/2014 12:56:10 to 07/22/2014 13:20:36**



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Well			Field		Job Start		Customer		Job Number	
NRC 30C-32HZ 30C-32HZ			Wattenberg		Jul/22/2014		Anadarko		CWJN-00212	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message			
07/22/2014	11:48:49	2		0.0	8.35	6.3				
07/22/2014	11:53:49	13		0.0	8.35	6.3				
07/22/2014	11:58:49	25		0.0	8.35	6.3				
07/22/2014	12:02:48	90		0.2	8.55	6.3	Start Pumping Spacer			
07/22/2014	12:03:49	1676		4.1	12.31	9.1				
07/22/2014	12:08:49	1721		5.2	11.82	35.0				
07/22/2014	12:13:49	777		3.9	11.82	55.8				
07/22/2014	12:14:44	754		3.9	12.00	59.4	Good Returns			
07/22/2014	12:18:49	351		3.9	12.28	75.3				
07/22/2014	12:22:36	-6		0.0	12.45	85.9	End Spacer			
07/22/2014	12:23:49	-6		0.0	12.45	85.9				
07/22/2014	12:28:49	-6		0.0	12.45	85.9				
07/22/2014	12:33:49	-7		0.0	12.46	85.9				
07/22/2014	12:36:44	-7		0.0	12.45	85.9	Start Cement Slurry			
07/22/2014	12:38:49	102		2.3	13.27	90.4				
07/22/2014	12:39:24	98		2.2	13.30	91.7	Start Mixing Tail Slurry			
07/22/2014	12:43:49	-9		0.0	13.49	96.8				
07/22/2014	12:48:49	348		4.1	14.10	110.7				
07/22/2014	12:53:49	1315		5.5	13.81	134.2				
07/22/2014	12:58:49	1500		5.5	13.71	161.9				
07/22/2014	13:03:49	1512		5.5	13.60	189.6				
07/22/2014	13:08:49	1553		5.5	13.55	217.3				
07/22/2014	13:13:49	1972		6.0	13.51	246.5				
07/22/2014	13:18:49	1952		5.9	13.47	276.2				
07/22/2014	13:23:08	1950		5.8	13.74	301.7	End Tail Slurry			
07/22/2014	13:23:49	1976		5.9	13.59	305.7				
07/22/2014	13:28:23	-8		0.0	13.70	318.4	Wash Pumps and Lines			
07/22/2014	13:28:49	61		2.2	12.20	319.1				
07/22/2014	13:33:49	35		3.0	8.98	331.6				
07/22/2014	13:36:25	1		2.4	8.27	339.3	Drop Top Plug			
07/22/2014	13:38:25	-19		4.1	14.84	340.6	Start Displacement			
07/22/2014	13:38:49	119		4.8	8.35	342.5				
07/22/2014	13:43:49	1323		4.8	8.36	367.2				
07/22/2014	13:48:49	1043		3.3	8.36	388.7				
07/22/2014	13:52:51	1827		4.0	8.36	403.4	Sheer Dart			
07/22/2014	13:53:49	1807		4.4	8.36	407.4				
07/22/2014	13:58:49	2009		4.4	8.36	429.3				
07/22/2014	14:03:49	2016		4.4	8.36	451.2				
07/22/2014	14:08:17	2076		4.4	8.36	470.7	Good Returns			
07/22/2014	14:08:49	2103		4.4	8.36	473.0				
07/22/2014	14:13:49	2157		4.4	8.36	494.9				
07/22/2014	14:18:49	1548		2.3	8.35	515.1				
07/22/2014	14:23:49	2271		4.2	9.13	535.6				
07/22/2014	14:28:49	2360		4.2	9.30	556.5				
07/22/2014	14:33:49	2464		4.2	9.26	577.3				
07/22/2014	14:36:06	1239		0.0	9.23	582.8	End Displacement			
07/22/2014	14:36:08	1236		0.0	9.23	582.8	Did not bump...			
07/22/2014	14:38:49	1162		0.0	9.22	582.8				
07/22/2014	14:40:32	2354		3.7	8.61	586.2	Pump 3 more BBLs			
07/22/2014	14:40:44	1665		0.0	8.61	586.5	Did not bump			
07/22/2014	14:41:58	-9		0.0	8.61	586.5	Check Floats/1bbl back			
07/22/2014	14:43:49	-13		0.0	8.61	586.5				
07/22/2014	14:48:49	-13		0.0	8.68	586.6				
07/22/2014	14:53:49	-13		0.0	8.76	586.6				

Well			Field		Job Start	Customer		Job Number
NRC 30C-32HZ 30C-32HZ			Wattenberg		Jul/22/2014	Anadarko		CWJN-00212
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
07/22/2014	14:58:49	-13	0.0	8.80	586.6			
07/22/2014	15:03:49	-14	0.0	8.82	586.6			
07/22/2014	15:08:49	-14	0.0	8.83	586.6			
07/22/2014	15:13:49	-15	0.0	8.85	586.6			
07/22/2014	15:38:49	-13	0.0	8.87	586.6			
07/22/2014	15:39:04	-13	0.0	8.87	586.6	Set Liner Tool		
07/22/2014	15:42:47	5863	1.0	8.49	587.6	Open Tool		
07/22/2014	15:43:49	1404	1.0	8.47	588.6			
07/22/2014	15:48:49	989	0.0	8.49	590.1			
07/22/2014	15:53:49	1016	0.0	8.39	590.1			
07/22/2014	15:58:49	1045	0.0	8.38	590.1			
07/22/2014	16:03:49	1015	0.0	8.38	590.1			
07/22/2014	16:08:49	1042	0.0	8.37	590.1			
07/22/2014	16:13:49	1052	0.0	8.37	590.1			
07/22/2014	16:18:49	1079	0.0	8.36	590.1			
07/22/2014	16:23:49	978	0.0	8.36	590.1			
07/22/2014	16:28:49	811	0.0	8.36	590.1			
07/22/2014	16:33:49	883	0.0	8.36	590.1			
07/22/2014	16:36:42	1393	3.0	8.44	590.5	Start Pumping Water		
07/22/2014	16:38:49	2121	5.0	8.36	600.8			
07/22/2014	16:43:49	1979	5.1	8.36	626.2			
07/22/2014	16:48:49	1498	3.5	8.36	650.1			
07/22/2014	16:53:49	1737	5.0	8.36	674.7			
07/22/2014	16:58:49	1479	5.1	8.36	699.8			
07/22/2014	17:03:49	1233	5.0	8.36	725.1			
07/22/2014	17:08:49	1071	5.0	8.36	750.3			
07/22/2014	17:13:49	955	5.1	8.36	775.6			
07/22/2014	17:18:49	877	5.1	8.36	800.9			
07/22/2014	17:23:49	1637	7.7	8.36	827.0			
07/22/2014	17:25:47	-3	0.0	8.37	841.1	End Water		

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 3.4	N2	Mud	Maximum Rate 7.7		Total Slurry 227.0	Mud 0.0	Spacer 80.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 9238	Final -2	Average 1642	Bump Plug to 0	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %		Designed Slurry Volume 227.0 bbl		Displacement 246.0 bbl	Mix Water Temp 80 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 27.0 bbl		
						Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Luke Rains			Schlumberger Supervisor Jonathan Rakowitz			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>		
						-		-		