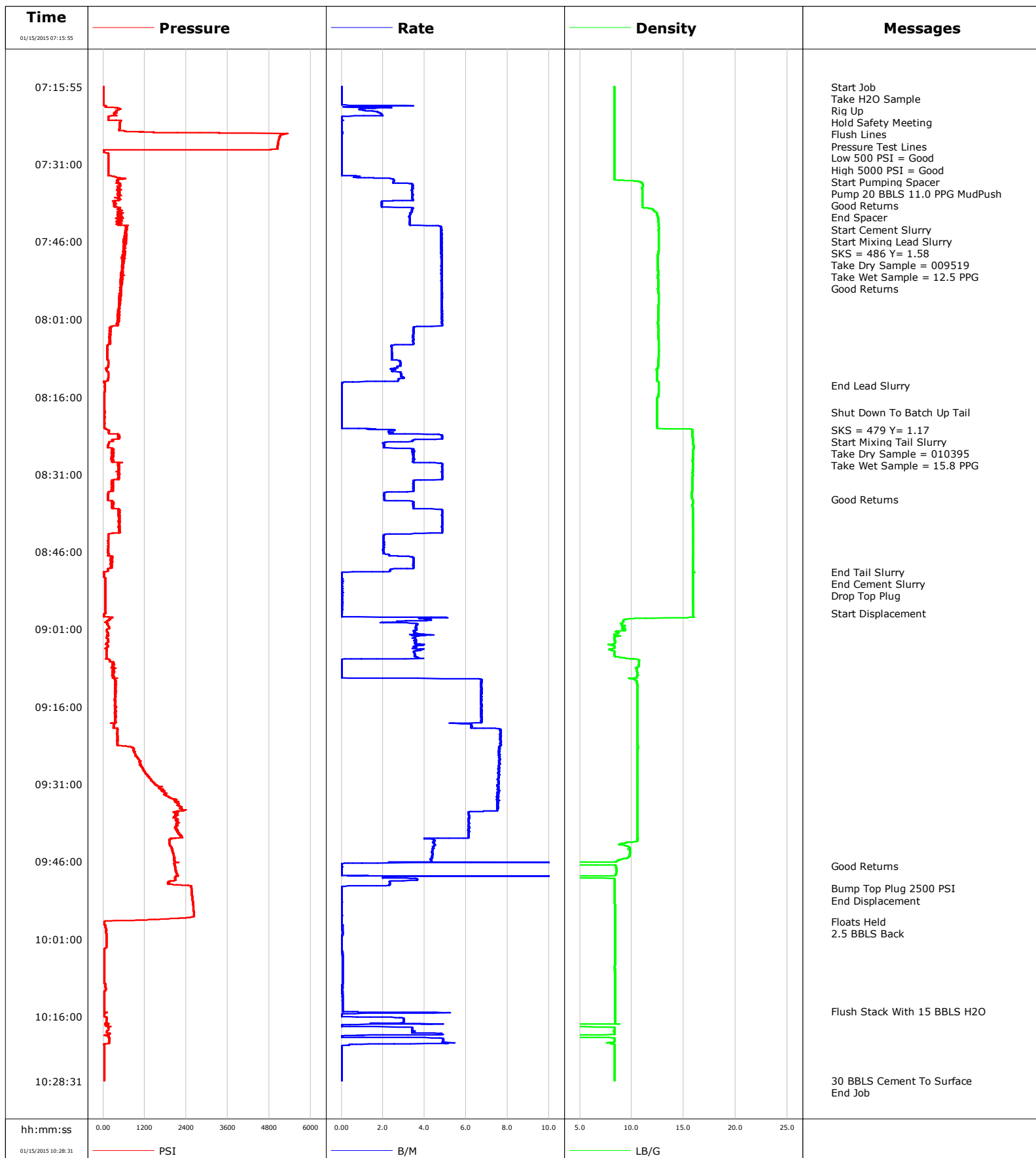


Well Waag North 2
Field Wattenberg
Engineer Conley Jensen/ Lyle Hartsfield
Country United States

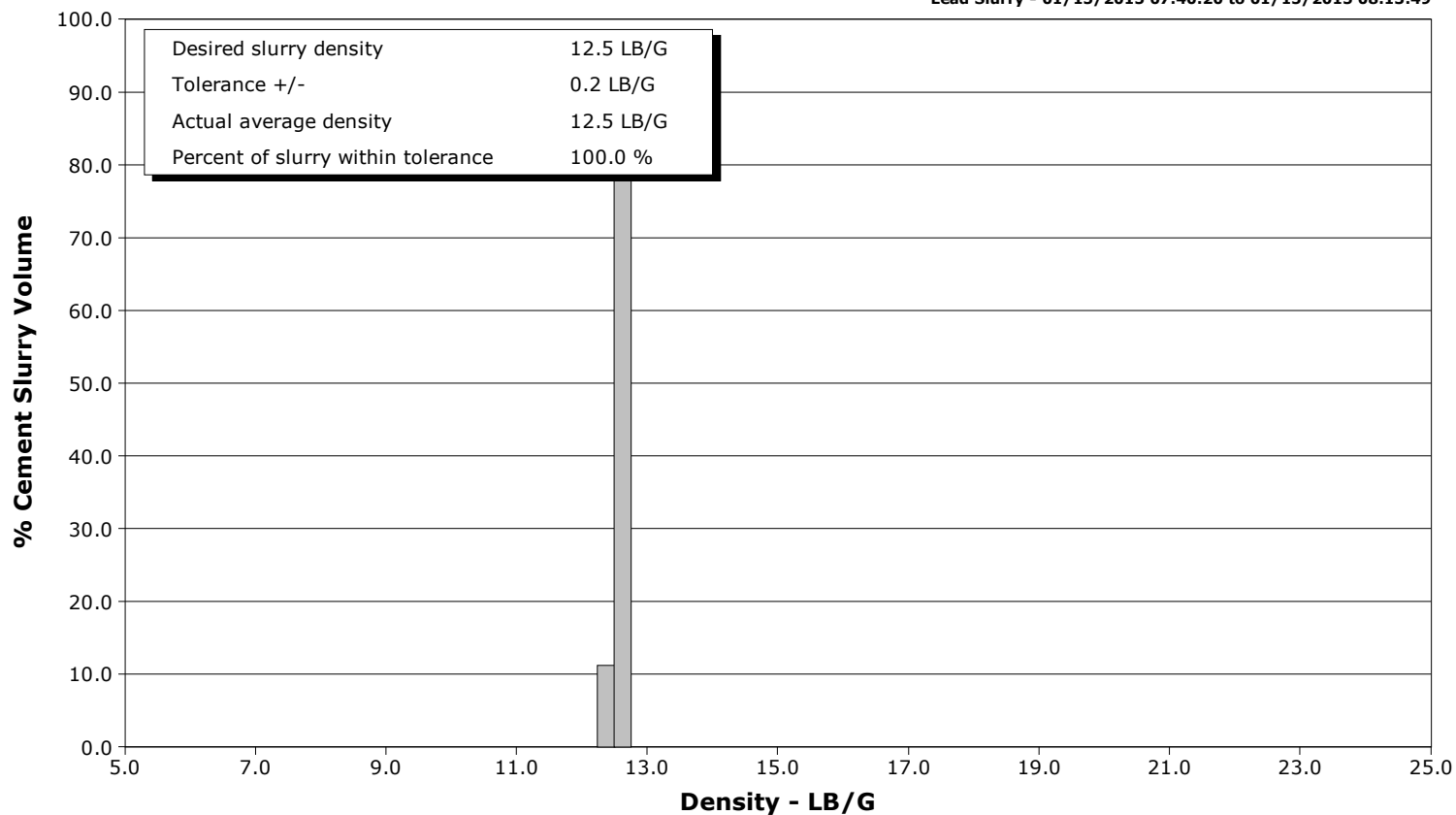
Client Extraction
SIR No. 2084086
Job Type 7" Intermediate
Job Date 01-15-2015



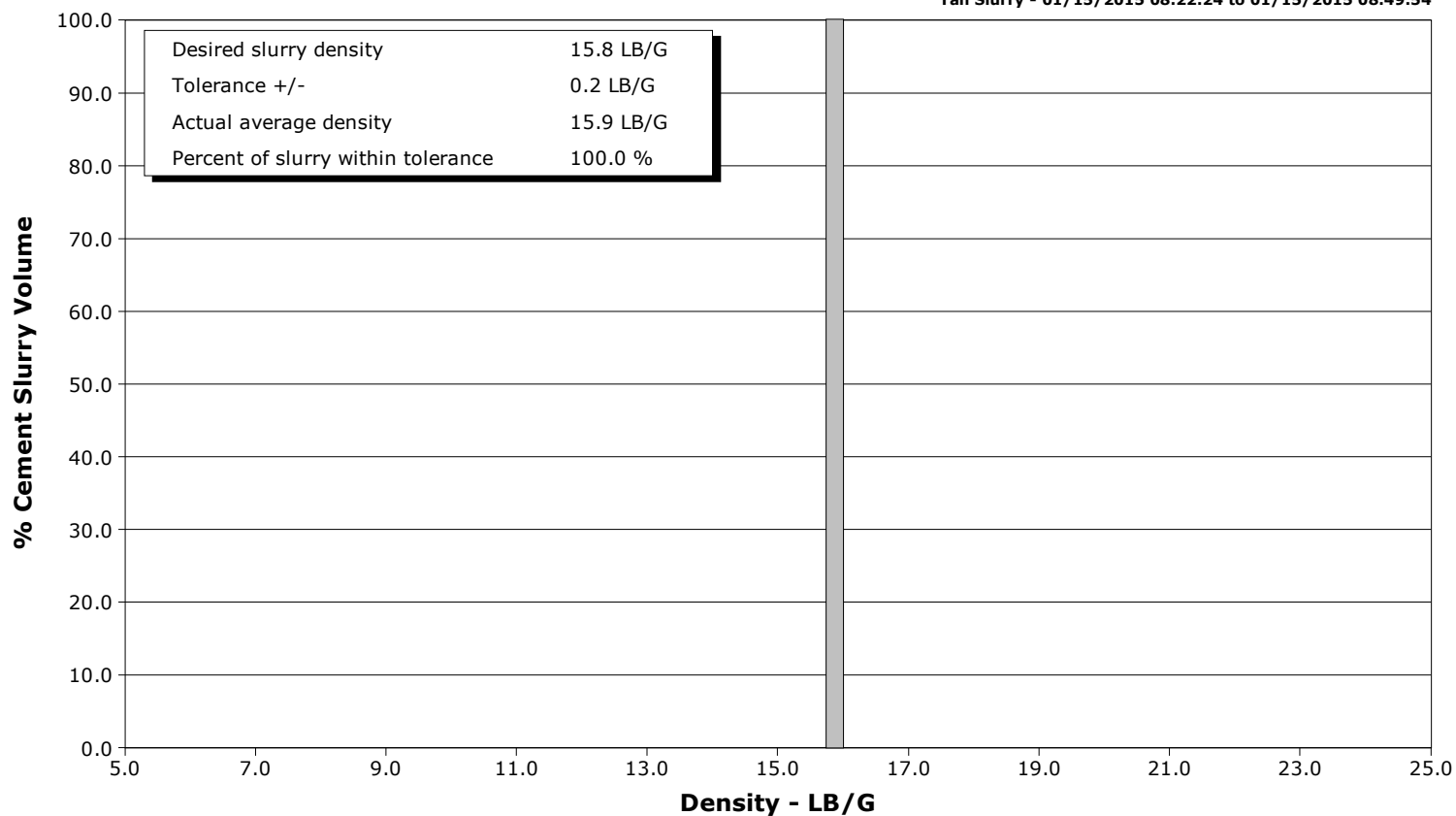
Well Waag North 2
Field Wattenberg
Engineer Conley Jensen/ Lyle Hartsfield
Country United States

Client Extraction
SIR No. 2084086
Job Type 7" Intermediate
Job Date 01-15-2015

Lead Slurry - 01/15/2015 07:40:20 to 01/15/2015 08:13:49



Tail Slurry - 01/15/2015 08:22:24 to 01/15/2015 08:49:54



Cementing Service Report

				Customer Extraction			Job Number 2084086						
Well Waag North 2 2			Location (legal) CWY			Schlumberger Location CWY			Job Start Jan/15/2015				
Field Wattenberg		Formation Name/Type Shale			Deviation deg		Bit Size 8.8 in		Well MD 7567.0 ft		Well TVD 7138.0 ft		
County Weld		State/Province Colorado			BHP psi		BHST 208 degF		BHCT 176 degF		Pore Press. Gradient lb/gal		
Well Master 0631593026		API/UWI											
Rig Name Xtreme 7		Drilled For Oil		Service Via Land		Casing/Liner							
						Depth, ft		Size, in		Weight, lb/ft		Grade	
Offshore Zone		Well Class New		Well Type Development		850.0		9.6		36.0		K55	
						7756.0		7.0		26.0		P110	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe							
						T/D		Depth, ft		Size, in		Weight, lb/ft	
Service Line Cementing		Job Type 7" Intermediate											
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole							
						Top, ft		Bottom, ft		shot/ft		No. of Shots	
						ft		ft					
						ft		ft					
						ft		ft					
						Treat Down Casing		Displacement 295.0 bbl		Packer Type		Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 296.8 bbl		Annular Vol. 210.0 bbl		Openhole Vol. 509.0 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 5240 psi						Shoe Type Guide				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 7756.0 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 Jan/15/2015 02:30		Arrived on Location Jan/15/2015 02:00		Leave Location Jan/15/2015 12:00		Collar Type Float				Tail Pipe Depth ft			
						Collar Depth 7712.0 ft				Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message							
01/15/2015	07:15:55	5	0.1	8.31	0.0	Started Acquisition							
01/15/2015	07:15:56	5	0.0	8.31	0.0	Take H2O Sample							
01/15/2015	07:15:57	5	0.0	8.31	0.0	Flush Lines							
01/15/2015	07:15:59	5	0.0	8.31	0.0	Pressure Test Lines							
01/15/2015	07:17:25	6	0.0	8.31	0.0								
01/15/2015	07:18:55	5	0.0	8.31	0.0								
01/15/2015	07:20:25	494	0.9	8.32	1.3								
01/15/2015	07:21:55	145	0.0	8.31	3.4								
01/15/2015	07:22:00	144	0.0	8.31	3.4	Low 500 PSI = Good							
01/15/2015	07:23:25	476	0.0	8.31	3.4								
01/15/2015	07:24:00	472	0.0	8.31	3.4	High 5000 PSI = Good							
01/15/2015	07:24:55	3323	0.1	8.32	3.4								
01/15/2015	07:26:25	5070	0.0	8.32	3.4								
01/15/2015	07:27:55	5031	0.0	8.32	3.4								
01/15/2015	07:29:25	146	0.0	8.31	3.4								
01/15/2015	07:30:55	151	0.0	8.31	0.0								
01/15/2015	07:32:25	155	0.0	8.32	0.0								
01/15/2015	07:33:12	157	0.0	8.31	0.0	Start Pumping Spacer							
01/15/2015	07:33:15	207	0.5	8.31	0.0	Pump 20 BBLS 11.0 PPG MudPush							
01/15/2015	07:33:55	519	2.5	8.31	0.9								
01/15/2015	07:35:25	442	3.4	11.02	5.3								

Well			Field		Job Start		Customer		Job Number	
Waag North 2 2			Wattenberg		Jan/15/2015		Extraction		2084086	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/15/2015	07:37:14	445	3.4	11.04	11.5	Good Returns				
01/15/2015	07:38:25	312	1.9	11.03	15.0					
01/15/2015	07:39:35	461	3.4	11.83	0.1	End Spacer				
01/15/2015	07:39:55	503	3.4	12.10	1.2					
01/15/2015	07:40:18	488	3.4	12.35	2.5	Start Cement Slurry				
01/15/2015	07:40:20	550	3.4	12.38	2.7	Start Mixing Lead Slurry				
01/15/2015	07:41:00	534	3.3	12.49	4.9	SKS = 486 Y= 1.58				
01/15/2015	07:41:25	465	3.3	12.54	6.2					
01/15/2015	07:42:55	688	4.6	12.57	11.2					
01/15/2015	07:44:25	664	4.8	12.60	18.4					
01/15/2015	07:45:55	657	4.8	12.60	25.6					
01/15/2015	07:47:25	633	4.8	12.60	32.8					
01/15/2015	07:48:53	605	4.8	12.52	39.9	Take Dry Sample = 009519				
01/15/2015	07:48:55	571	4.8	12.52	40.0					
01/15/2015	07:50:25	545	4.8	12.50	47.3					
01/15/2015	07:51:55	559	4.8	12.52	54.5					
01/15/2015	07:52:08	540	4.8	12.53	55.5	Take Wet Sample = 12.5 PPG				
01/15/2015	07:52:17	506	4.8	12.53	56.3	Good Returns				
01/15/2015	07:53:25	522	4.8	12.54	61.7					
01/15/2015	07:54:55	543	4.8	12.53	69.0					
01/15/2015	07:56:25	526	4.8	12.59	76.2					
01/15/2015	07:57:55	471	4.8	12.58	83.5					
01/15/2015	07:59:25	471	4.8	12.55	90.7					
01/15/2015	08:00:55	423	4.8	12.54	97.9					
01/15/2015	08:02:25	272	3.8	12.56	105.2					
01/15/2015	08:03:55	182	3.5	12.55	110.4					
01/15/2015	08:05:25	184	3.4	12.60	115.6					
01/15/2015	08:06:55	128	2.4	12.60	119.8					
01/15/2015	08:08:25	127	2.4	12.57	123.4					
01/15/2015	08:09:55	147	2.8	12.53	127.4					
01/15/2015	08:11:25	147	2.8	12.46	131.4					
01/15/2015	08:12:55	136	2.7	12.46	135.7					
01/15/2015	08:13:49	45	0.0	12.60	136.2	End Lead Slurry				
01/15/2015	08:14:25	48	0.0	12.58	0.0					
01/15/2015	08:15:55	42	0.0	12.56	0.0					
01/15/2015	08:17:25	38	0.0	12.47	0.0					
01/15/2015	08:18:55	43	0.0	12.47	0.0					
01/15/2015	08:19:00	43	0.0	12.47	0.0	Shut Down To Batch Up Tail				
01/15/2015	08:20:25	41	0.0	12.47	0.0					
01/15/2015	08:21:55	41	0.0	12.47	0.0					
01/15/2015	08:22:23	127	2.1	15.84	0.3	SKS = 479 Y= 1.17				
01/15/2015	08:22:24	132	2.3	15.85	0.3	Start Mixing Tail Slurry				
01/15/2015	08:22:25	136	2.5	15.85	0.3	Take Dry Sample = 010395				
01/15/2015	08:22:52	157	2.3	15.85	1.4	Take Wet Sample = 15.8 PPG				
01/15/2015	08:23:25	475	4.8	15.85	3.0					
01/15/2015	08:24:55	162	2.1	15.89	9.2					
01/15/2015	08:26:25	287	3.5	15.94	12.9					
01/15/2015	08:27:55	295	3.4	15.89	18.0					
01/15/2015	08:29:25	461	4.9	15.88	24.1					
01/15/2015	08:30:55	460	4.8	15.85	31.3					
01/15/2015	08:32:25	276	3.5	15.83	38.3					
01/15/2015	08:33:55	272	3.5	15.82	43.4					
01/15/2015	08:35:25	140	2.1	15.79	47.3					
01/15/2015	08:35:54	140	2.1	15.84	48.3	Good Returns				

Well			Field		Job Start		Customer		Job Number	
Waag North 2 2			Wattenberg		Jan/15/2015		Extraction		2084086	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/15/2015	08:38:25	447	4.8	15.88	57.5					
01/15/2015	08:39:55	455	4.8	15.88	64.7					
01/15/2015	08:41:25	461	4.8	15.92	72.0					
01/15/2015	08:42:55	149	2.0	15.92	78.3					
01/15/2015	08:44:25	153	2.0	15.92	81.4					
01/15/2015	08:45:55	148	2.0	15.92	84.4					
01/15/2015	08:47:25	216	3.5	15.90	88.2					
01/15/2015	08:48:55	255	3.5	15.90	93.4					
01/15/2015	08:49:54	31	2.0	15.90	96.2	End Tail Slurry				
01/15/2015	08:49:56	27	1.0	15.98	96.3	End Cement Slurry				
01/15/2015	08:50:03	20	0.0	16.00	96.4	Drop Top Plug				
01/15/2015	08:50:25	24	0.0	15.89	96.4					
01/15/2015	08:51:55	59	0.0	15.89	96.4					
01/15/2015	08:53:25	60	0.0	15.89	96.4					
01/15/2015	08:54:55	62	0.0	15.90	96.4					
01/15/2015	08:56:25	62	0.0	15.91	96.4					
01/15/2015	08:57:55	76	0.0	15.92	96.5					
01/15/2015	08:58:00	76	0.0	15.92	96.5	Start Displacement				
01/15/2015	08:59:25	117	3.4	9.19	3.0					
01/15/2015	09:00:55	172	3.6	9.28	7.8					
01/15/2015	09:02:25	130	3.6	8.71	12.8					
01/15/2015	09:03:55	80	3.6	8.21	17.9					
01/15/2015	09:05:25	98	3.5	8.33	22.9					
01/15/2015	09:06:55	183	0.0	10.59	28.0					
01/15/2015	09:08:25	289	0.0	10.63	37.1					
01/15/2015	09:09:55	278	0.0	10.57	47.2					
01/15/2015	09:11:25	369	6.7	10.51	57.4					
01/15/2015	09:12:55	342	6.7	10.55	67.5					
01/15/2015	09:14:25	349	6.7	10.55	77.6					
01/15/2015	09:15:55	358	6.7	10.55	87.7					
01/15/2015	09:17:25	344	6.7	10.55	97.8					
01/15/2015	09:18:55	352	6.7	10.56	107.9					
01/15/2015	09:20:25	413	7.7	10.56	117.6					
01/15/2015	09:21:55	404	7.7	10.57	129.1					
01/15/2015	09:23:25	409	7.7	10.57	140.6					
01/15/2015	09:24:55	897	7.6	10.56	152.0					
01/15/2015	09:26:25	1030	7.6	10.56	163.4					
01/15/2015	09:27:55	1147	7.6	10.56	174.8					
01/15/2015	09:29:25	1298	7.6	10.56	186.1					
01/15/2015	09:30:55	1496	7.6	10.56	197.5					
01/15/2015	09:32:25	1711	7.6	10.56	208.8					
01/15/2015	09:33:55	2026	7.5	10.57	220.1					
01/15/2015	09:35:25	2242	7.5	10.56	231.4					
01/15/2015	09:36:55	2102	6.1	10.56	241.9					
01/15/2015	09:38:25	2141	6.1	10.56	251.1					
01/15/2015	09:39:55	2160	6.1	10.56	260.3					
01/15/2015	09:41:25	2298	6.1	10.56	269.4					
01/15/2015	09:42:55	1932	4.5	9.32	276.3					
01/15/2015	09:44:25	2023	4.4	9.82	282.9					
01/15/2015	09:45:55	2056	4.3	8.61	289.4					
01/15/2015	09:46:54	2070	0.0	8.47	293.9	Good Returns				
01/15/2015	09:47:25	2080	0.0	8.53	296.2					
01/15/2015	09:48:55	2154	9.8	3.79	302.7					
01/15/2015	09:50:25	1926	2.3	8.35	307.5					

Well			Field		Job Start	Customer	Job Number
Waag North 2 2			Wattenberg		Jan/15/2015	Extraction	2084086
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/15/2015	09:51:13	2546	0.0	8.35	308.3	End Displacement	
01/15/2015	09:51:55	2559	0.0	8.35	308.3		
01/15/2015	09:53:25	2582	0.0	8.34	308.3		
01/15/2015	09:54:55	2606	0.0	8.40	308.3		
01/15/2015	09:56:25	2622	0.0	8.42	308.3		
01/15/2015	09:57:42	35	0.0	8.42	308.3	Floats Held	
01/15/2015	09:57:55	37	0.0	8.43	308.4		
01/15/2015	09:59:25	87	0.1	8.42	309.3		
01/15/2015	10:00:55	88	0.0	8.41	310.1		
01/15/2015	10:02:25	92	0.0	8.40	311.0		
01/15/2015	10:03:55	34	0.1	8.40	311.6		
01/15/2015	10:05:25	35	0.1	8.39	312.1		
01/15/2015	10:06:55	34	0.1	8.38	312.6		
01/15/2015	10:08:25	34	0.1	8.39	313.1		
01/15/2015	10:09:55	68	0.0	8.39	313.7		
01/15/2015	10:11:25	30	0.1	8.39	314.5		
01/15/2015	10:12:55	31	0.1	8.39	315.0		
01/15/2015	10:14:25	32	0.1	8.39	315.4		
01/15/2015	10:15:00	33	0.1	8.39	315.6	Flush Stack With 15 BBLs H2O	
01/15/2015	10:15:55	33	0.0	8.41	315.9		
01/15/2015	10:17:25	159	3.0	8.40	0.6		
01/15/2015	10:18:55	112	3.5	8.25	6.3		
01/15/2015	10:20:25	185	4.9	8.34	13.2		
01/15/2015	10:21:55	30	0.0	8.34	18.2		
01/15/2015	10:23:25	32	0.0	8.34	18.7		
01/15/2015	10:24:55	33	0.0	8.34	19.2		
01/15/2015	10:26:25	33	0.0	8.34	19.6		
01/15/2015	10:27:55	33	0.0	8.34	20.1		
01/15/2015	10:28:27	33	0.0	8.34	20.3	30 BBLs Cement To Surface	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.7	N2	Mud	Maximum Rate 7.7		Total Slurry 235.0	Mud 0.0	Spacer 21.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 5338	Final 32	Average 619	Bump Plug to 2500	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 235.0 bbl		Displacement 293.0 bbl	Mix Water Temp 60 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 Brandon Patch			Schlumberger Supervisor Conley Jensen/ Lyle Hartsfield			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				



Service Order #:	
Date:	Jan/15/2015
Operating Time (hh:mm):	00:00
Client Rep:	Brandon Patch
Schlumberger Engineer:	Conley Jensen/ Lyle Hartsfield
Schlumberger FSM:	

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

2	Design / Preparation						
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
Sub-total							0%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: