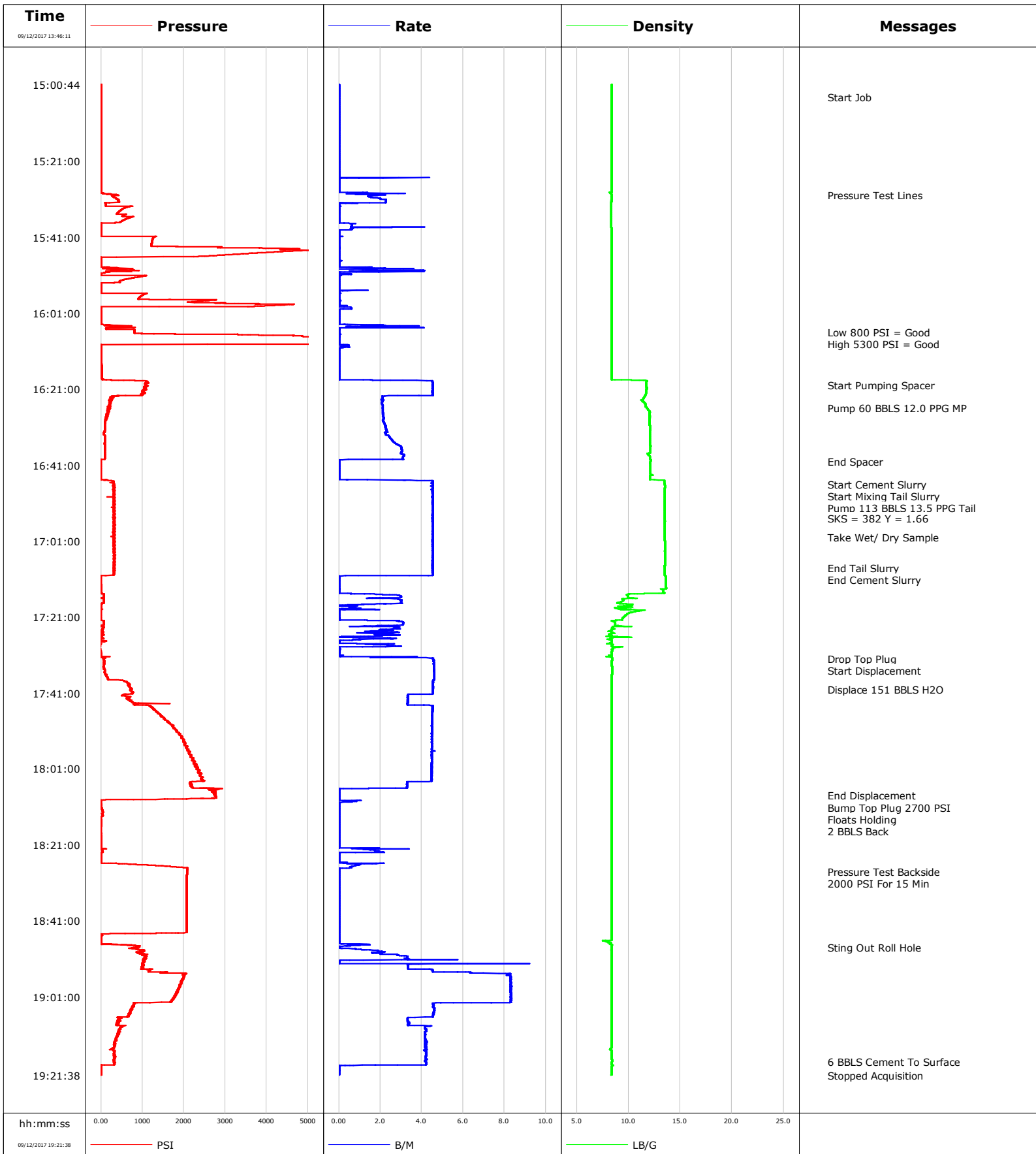


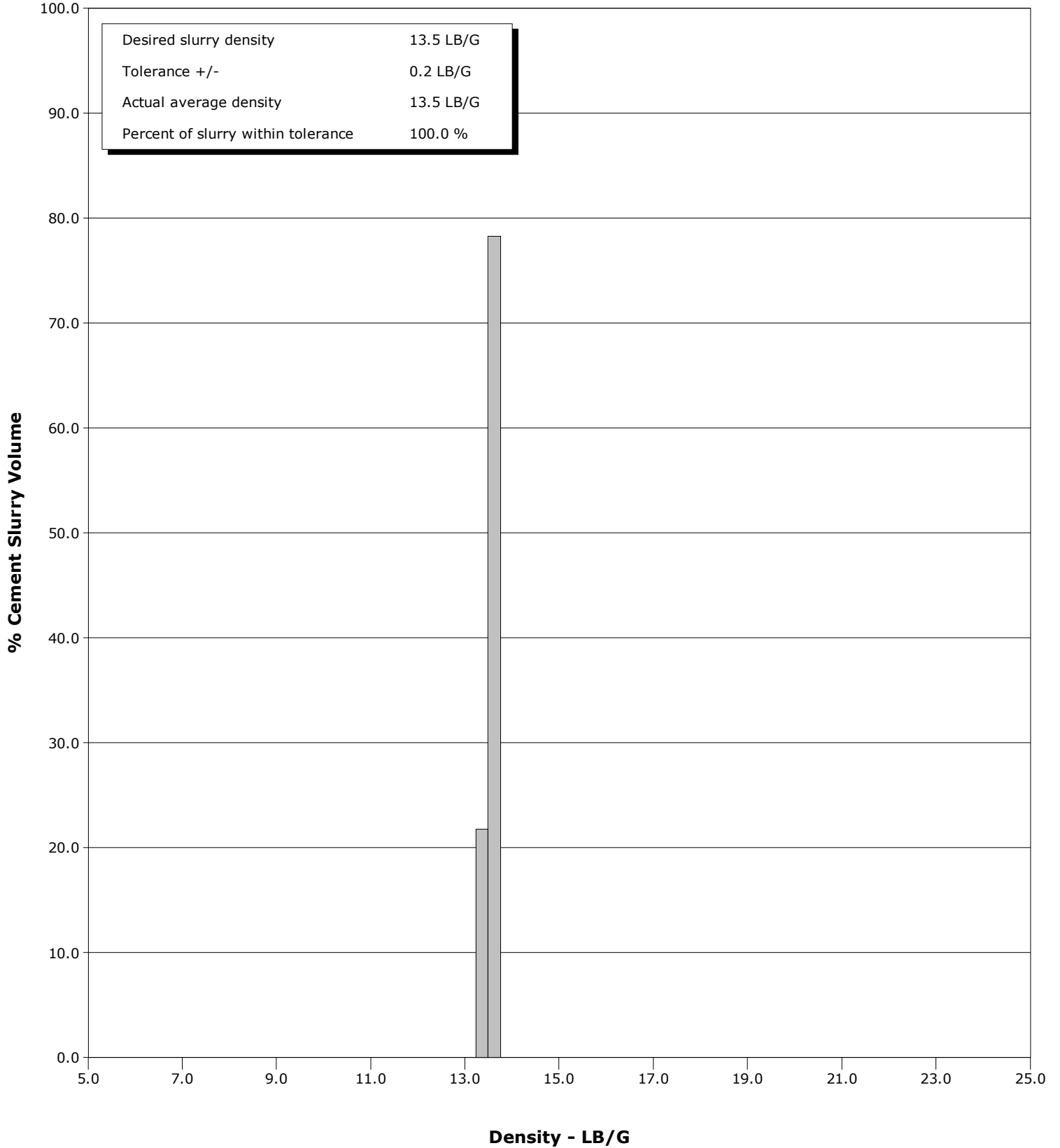
Well	Norden 27C-14HZ	Client	Anadarko
Field	Wattenberg	SIR No.	2573791
Engineer	Conley Jensen/ Sheldon Bell	Job Type	4.5" Liner
Country	United States	Job Date	09-12-2017



Well Norden
Field Wattenberg
Engineer Conley Jensen/ Sheldon Bell
Country United States

Client Anadarko
SIR No. 2573791
Job Type 4.5" Liner
Job Date 09-12-2017

Cement Slurry - 09/12/2017 16:46:00 to 09/12/2017 17:09:00



				Customer		Job Number	
				Anadarko		2573791	
Well		Location (legal)		Schlumberger Location		Job Start	
Norden 27C-14HZ				CWY		Sep/12/2017	
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD
Wattenberg		Shale		deg	6.1 in	11849.0 ft	7553.0 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient
Juneau		Colorado		psi	233 degF	228 degF	lb/gal
Well Master		API/UWI					
0631692269		05123435710000					
Rig Name	Drilled For	Service Via	Casing/Liner				
Xtreme 24	Oil	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class	Well Type	5789.0	7.0	26.0	P110	N/A
	New	Development	6298.0	4.5	11.6	P110	8RD
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe			
		lb/gal	cP	T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line	Job Type			D	5509.0	4.0	
Cementing	4.5" Liner				0.0	0.0	
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole				
psi	psi		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
Service Instructions Perform 4.5" Liner Per Proposal Design.			ft	ft			ft
			ft	ft			Diameter
			ft	ft			in
Treat Down		Displacement		Packer Type		Packer Depth	
Casing		151.0 bbl				ft	
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.	
54.0 bbl		97.0 bbl		bbl		bbl	
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement		Casing Tools		Squeeze Job	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
Lift Pressure		psi		Shoe Type		Squeeze Type	
				Float			
Pipe Rotated		Pipe Reciprocated		Shoe Depth		Tool Type	
<input type="checkbox"/>		<input type="checkbox"/>		11849.0 ft			
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth	
		1				ft	
Cement Head Type				Stage Tool Depth		Tail Pipe Size	
				ft		in	
Job Scheduled For		Arrived on Location		Leave Location		Collar Type	
Sep/12/2017 12:00		Sep/12/2017 12:00		Sep/12/2017 21:00		Float	
				Collar Depth		Tail Pipe Depth	
				11800.0 ft		ft	
						Sqz. Total Vol.	
						bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/12/2017	13:46:11	5	0.6	8.35	0.0	Started Acquisition	
09/12/2017	13:48:11	3	0.0	8.36	0.6		
09/12/2017	13:50:11	4	0.0	8.36	0.6		
09/12/2017	13:52:11	4	0.0	8.36	0.6		
09/12/2017	13:54:11	3	0.0	8.36	0.6		
09/12/2017	13:56:11	4	0.0	8.36	0.6		
09/12/2017	13:58:11	4	0.0	8.36	0.6		
09/12/2017	14:00:11	3	0.0	8.36	0.6		
09/12/2017	14:02:11	3	0.0	8.36	0.6		
09/12/2017	14:04:11	3	0.0	8.36	0.6		
09/12/2017	14:06:11	4	0.0	8.36	0.7		
09/12/2017	14:08:11	4	0.0	8.36	0.7		
09/12/2017	14:10:11	4	0.0	8.36	0.7		
09/12/2017	14:12:11	3	0.0	8.36	0.7		
09/12/2017	14:14:11	3	0.0	8.36	0.7		
09/12/2017	14:16:11	3	0.0	8.36	0.7		
09/12/2017	14:18:11	3	0.0	8.36	0.7		
09/12/2017	14:20:11	3	0.0	8.36	0.7		
09/12/2017	14:22:11	3	0.0	8.36	0.7		
09/12/2017	14:24:11	3	0.0	8.36	0.7		
09/12/2017	14:26:11	3	0.0	8.36	0.7		

Well		Field		Job Start		Customer		Job Number	
Norden 27C-14HZ		Wattenberg		Sep/12/2017		Anadarko		2573791	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/12/2017	14:30:11	3	0.0	8.36	0.8				
09/12/2017	14:32:11	3	0.0	8.36	0.8				
09/12/2017	14:34:11	4	0.0	8.36	0.8				
09/12/2017	14:36:11	3	0.0	8.35	0.8				
09/12/2017	14:38:11	3	0.0	8.36	0.8				
09/12/2017	14:40:11	4	0.0	8.35	0.8				
09/12/2017	14:42:11	3	0.0	8.35	0.8				
09/12/2017	14:44:11	3	0.0	8.35	0.8				
09/12/2017	14:46:11	3	0.0	8.35	0.8				
09/12/2017	14:48:11	4	0.0	8.35	0.8				
09/12/2017	14:50:11	3	0.0	8.35	0.8				
09/12/2017	14:52:11	3	0.0	8.35	0.8				
09/12/2017	14:54:11	3	0.0	8.35	0.9				
09/12/2017	14:56:11	3	0.0	8.35	0.9				
09/12/2017	14:58:11	4	0.0	8.35	0.9				
09/12/2017	15:00:11	4	0.0	8.35	0.9				
09/12/2017	15:02:11	4	0.0	8.35	0.9				
09/12/2017	15:04:00	4	0.0	8.35	0.9	Start Job			
09/12/2017	15:04:11	4	0.0	8.35	0.9				
09/12/2017	15:06:11	4	0.0	8.35	0.9				
09/12/2017	15:08:11	5	0.0	8.35	0.9				
09/12/2017	15:10:11	5	0.0	8.35	0.9				
09/12/2017	15:12:11	4	0.0	8.35	0.9				
09/12/2017	15:14:11	5	0.0	8.35	0.9				
09/12/2017	15:16:11	4	0.0	8.35	0.9				
09/12/2017	15:18:11	5	0.0	8.35	1.0				
09/12/2017	15:20:11	4	0.0	8.35	1.0				
09/12/2017	15:22:11	4	0.0	8.35	1.0				
09/12/2017	15:24:11	4	0.0	8.35	1.0				
09/12/2017	15:26:11	5	0.0	8.35	1.2				
09/12/2017	15:28:11	1	0.0	8.35	1.2				
09/12/2017	15:30:00	278	1.5	8.35	2.5	Pressure Test Lines			
09/12/2017	15:30:11	274	1.4	8.35	2.7				
09/12/2017	15:32:11	109	0.0	8.34	6.2				
09/12/2017	15:34:11	437	0.0	8.35	6.2				
09/12/2017	15:36:11	602	0.0	8.35	6.2				
09/12/2017	15:38:11	5	0.6	8.35	6.8				
09/12/2017	15:40:11	11	0.0	8.36	7.5				
09/12/2017	15:42:11	1227	0.0	8.36	7.5				
09/12/2017	15:44:11	4476	0.0	8.35	7.5				
09/12/2017	15:46:11	375	0.0	8.36	7.5				
09/12/2017	15:48:11	9	0.0	8.35	7.6				
09/12/2017	15:50:11	163	0.0	8.36	10.2				
09/12/2017	15:52:11	546	0.0	8.36	10.4				
09/12/2017	15:54:11	1	0.0	8.36	10.4				
09/12/2017	15:56:11	1005	0.0	8.36	10.5				
09/12/2017	15:58:11	2996	0.0	8.36	10.5				
09/12/2017	16:00:11	-1	0.0	8.35	10.8				
09/12/2017	16:02:11	1	0.0	8.36	10.8				
09/12/2017	16:04:11	318	2.2	8.35	11.2				
09/12/2017	16:06:00	809	0.0	8.36	12.7	Low 800 PSI = Good			
09/12/2017	16:06:11	811	0.0	8.36	12.7				
09/12/2017	16:08:00	5343	0.0	8.36	12.7	High 5300 PSI = Good			
09/12/2017	16:08:11	5319	0.0	8.36	12.7				

Well			Field		Job Start	Customer		Job Number
Norden 27C-14HZ			Wattenberg		Sep/12/2017	Anadarko		2573791
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
09/12/2017	16:12:11	8	0.0	8.36	0.0			
09/12/2017	16:14:11	11	0.0	8.36	0.0			
09/12/2017	16:16:11	14	0.0	8.36	0.0			
09/12/2017	16:18:11	19	0.0	8.36	0.0			
09/12/2017	16:20:00	1083	4.5	11.72	6.2	Start Pumping Spacer		
09/12/2017	16:20:11	1047	4.5	11.74	7.0			
09/12/2017	16:22:11	1049	4.5	11.68	16.1			
09/12/2017	16:24:11	261	2.1	11.34	21.6			
09/12/2017	16:26:00	160	2.1	11.79	25.4	Pump 60 BBLs 12.0 PPG MP		
09/12/2017	16:26:11	184	2.1	11.84	25.8			
09/12/2017	16:28:11	159	2.1	12.04	30.0			
09/12/2017	16:30:11	95	2.2	12.00	34.3			
09/12/2017	16:32:11	91	2.3	12.07	38.9			
09/12/2017	16:34:11	89	2.5	12.07	43.6			
09/12/2017	16:36:11	89	3.0	12.09	49.1			
09/12/2017	16:38:11	88	3.1	11.93	55.1			
09/12/2017	16:40:00	-8	0.0	12.13	59.3	End Spacer		
09/12/2017	16:40:11	-6	0.0	12.13	59.3			
09/12/2017	16:42:11	-4	0.0	12.11	59.3			
09/12/2017	16:44:11	-3	0.0	12.05	59.3			
09/12/2017	16:46:00	296	4.5	13.49	64.2	Start Cement Slurry		
09/12/2017	16:46:11	296	4.5	13.50	65.0			
09/12/2017	16:48:11	316	4.5	13.48	74.0			
09/12/2017	16:50:00	316	4.5	13.50	82.3	Pump 113 BBLs 13.5 PPG Tail		
09/12/2017	16:50:11	308	4.5	13.50	83.1			
09/12/2017	16:52:11	325	4.5	13.49	92.1			
09/12/2017	16:54:11	322	4.5	13.51	101.2			
09/12/2017	16:55:00	296	4.5	13.51	104.9	SKS = 382 Y = 1.66		
09/12/2017	16:56:11	321	4.5	13.51	110.3			
09/12/2017	16:58:11	317	4.5	13.51	119.3			
09/12/2017	17:00:00	325	4.5	13.51	127.5	Take Wet/ Dry Sample		
09/12/2017	17:00:11	305	4.5	13.51	128.4			
09/12/2017	17:02:11	331	4.5	13.53	137.4			
09/12/2017	17:04:11	309	4.5	13.55	146.5			
09/12/2017	17:06:11	314	4.5	13.53	155.5			
09/12/2017	17:08:00	301	4.5	13.51	163.8	End Tail Slurry		
09/12/2017	17:08:11	300	4.5	13.51	164.6			
09/12/2017	17:09:00	313	4.5	13.51	168.3	End Cement Slurry		
09/12/2017	17:10:11	-7	0.0	13.59	173.2			
09/12/2017	17:12:11	-0	0.0	13.57	173.2			
09/12/2017	17:14:11	1	0.0	13.35	173.2			
09/12/2017	17:16:11	66	2.9	9.51	176.5			
09/12/2017	17:18:11	2	0.5	9.28	181.0			
09/12/2017	17:20:11	-1	0.0	9.86	181.6			
09/12/2017	17:22:11	64	3.0	8.55	182.5			
09/12/2017	17:24:11	39	2.6	8.61	188.1			
09/12/2017	17:26:11	-2	0.0	9.42	192.3			
09/12/2017	17:28:11	-65	1.4	8.42	194.0			
09/12/2017	17:30:11	-1	0.0	8.36	195.5			
09/12/2017	17:32:00	60	4.5	8.42	197.6	Drop Top Plug		
09/12/2017	17:32:11	64	4.6	8.41	198.4			
09/12/2017	17:34:11	65	4.6	8.41	207.5			
09/12/2017	17:36:11	122	4.6	8.39	216.7			
09/12/2017	17:38:11	624	4.5	8.38	225.9			

Well			Field		Job Start	Customer	Job Number
Norden 27C-14HZ			Wattenberg		Sep/12/2017	Anadarko	2573791
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/12/2017	17:40:11	701	4.5	8.38	235.0		
09/12/2017	17:42:11	681	3.3	8.37	243.0		
09/12/2017	17:44:11	1010	3.7	8.37	249.7		
09/12/2017	17:46:11	1354	4.5	8.37	258.7		
09/12/2017	17:48:11	1578	4.5	8.37	267.7		
09/12/2017	17:50:11	1759	4.5	8.37	276.7		
09/12/2017	17:52:11	1923	4.5	8.37	285.7		
09/12/2017	17:54:11	2036	4.5	8.37	294.6		
09/12/2017	17:56:11	2091	4.6	8.37	303.6		
09/12/2017	17:58:11	2227	4.5	8.37	312.6		
09/12/2017	18:00:11	2265	4.5	8.37	321.5		
09/12/2017	18:02:11	2383	4.5	8.37	330.5		
09/12/2017	18:04:11	2451	4.5	8.37	339.5		
09/12/2017	18:06:11	2582	0.1	8.37	346.0		
09/12/2017	18:08:00	2754	0.0	8.37	346.0	End Displacement	
09/12/2017	18:08:11	2755	0.0	8.37	346.0		
09/12/2017	18:10:11	-1	0.0	8.37	346.3		
09/12/2017	18:12:11	41	0.0	8.37	346.3		
09/12/2017	18:14:11	-0	0.0	8.37	346.3		
09/12/2017	18:16:11	-0	0.0	8.37	346.3		
09/12/2017	18:18:11	-1	0.0	8.37	346.3		
09/12/2017	18:20:11	0	0.0	8.37	346.3		
09/12/2017	18:22:11	6	1.2	8.37	346.9		
09/12/2017	18:24:11	3	0.0	8.37	348.4		
09/12/2017	18:26:11	877	0.9	8.37	348.9		
09/12/2017	18:28:00	2076	0.0	8.37	349.5	Pressure Test Backside	
09/12/2017	18:28:01	2076	0.0	8.37	349.5	2000 PSI For 15 Min	
09/12/2017	18:28:11	2075	0.0	8.37	349.5		
09/12/2017	18:30:11	2064	0.0	8.37	349.5		
09/12/2017	18:32:11	2061	0.0	8.37	349.5		
09/12/2017	18:34:11	2059	0.0	8.37	349.5		
09/12/2017	18:36:11	2058	0.0	8.37	349.5		
09/12/2017	18:38:11	2059	0.0	8.37	349.5		
09/12/2017	18:40:11	2061	0.0	8.37	349.5		
09/12/2017	18:42:11	2064	0.0	8.37	349.5		
09/12/2017	18:44:11	1865	0.0	8.37	349.6		
09/12/2017	18:46:11	1	0.0	7.69	349.6		
09/12/2017	18:48:00	891	0.0	8.37	350.0	Sting Out Roll Hole	
09/12/2017	18:48:11	766	0.2	8.37	350.0		
09/12/2017	18:50:11	1098	3.2	8.37	353.7		
09/12/2017	18:52:11	1025	0.0	8.37	357.5		
09/12/2017	18:54:11	1170	4.5	8.37	364.7		
09/12/2017	18:56:11	1992	8.3	8.38	379.5		
09/12/2017	18:58:11	1885	8.3	8.38	396.1		
09/12/2017	19:00:11	1829	8.3	8.38	412.7		
09/12/2017	19:02:11	1683	8.3	8.38	429.3		
09/12/2017	19:04:11	728	4.6	8.37	439.8		
09/12/2017	19:06:11	661	4.5	8.37	449.0		
09/12/2017	19:08:11	403	3.4	8.37	455.9		
09/12/2017	19:10:11	416	4.2	8.37	464.0		
09/12/2017	19:12:11	361	4.2	8.37	472.3		
09/12/2017	19:14:11	317	4.2	8.37	480.7		
09/12/2017	19:16:11	323	4.2	8.39	489.1		
09/12/2017	19:18:00	324	4.1	8.40	496.7	6 BBLs Cement To Surface	

Well Norden 27C-14HZ		Field Wattenberg		Job Start Sep/12/2017		Customer Anadarko		Job Number 2573791	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/12/2017	19:20:11	5	0.0	8.37	500.9				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry 113.0	Mud	Spacer 60.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to 2700	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 113.0 bbl		Displacement 151.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 6.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative John Truett			Schlumberger Supervisor Conley Jensen/ Sheldon Bell			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
					-		-	



Service Quality Evaluation

Client:	Anadarko
Field:	Wattenberg
Rig:	Xtreme 24
Well:	Norden
Service Line:	Cementing
Job Type:	4.5" Liner

Service Order #:	
Date:	Sep/12/2017
Operating Time (hh:mm):	00:00
Client Rep:	John Truett
Schlumberger Engineer:	Conley Jensen/ Sheldon Bell
Schlumberger FSM:	

Main Objective:

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

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
1b	Free of environmental spill or non-compliant discharge	5	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
1c	Wellsite left clean	4	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

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%

3	Execution				
3a	Lost time < 30 mins	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3b	Equipment pressure tested successfully	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3d	Plugs / darts released and tested successfully	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3e	Density variation met expectations	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3f	Personnel performed as per expectations	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3g	Equipment performed as per expectations	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3h	Job pumped as per design	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3i	Did job start on time	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	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%

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: