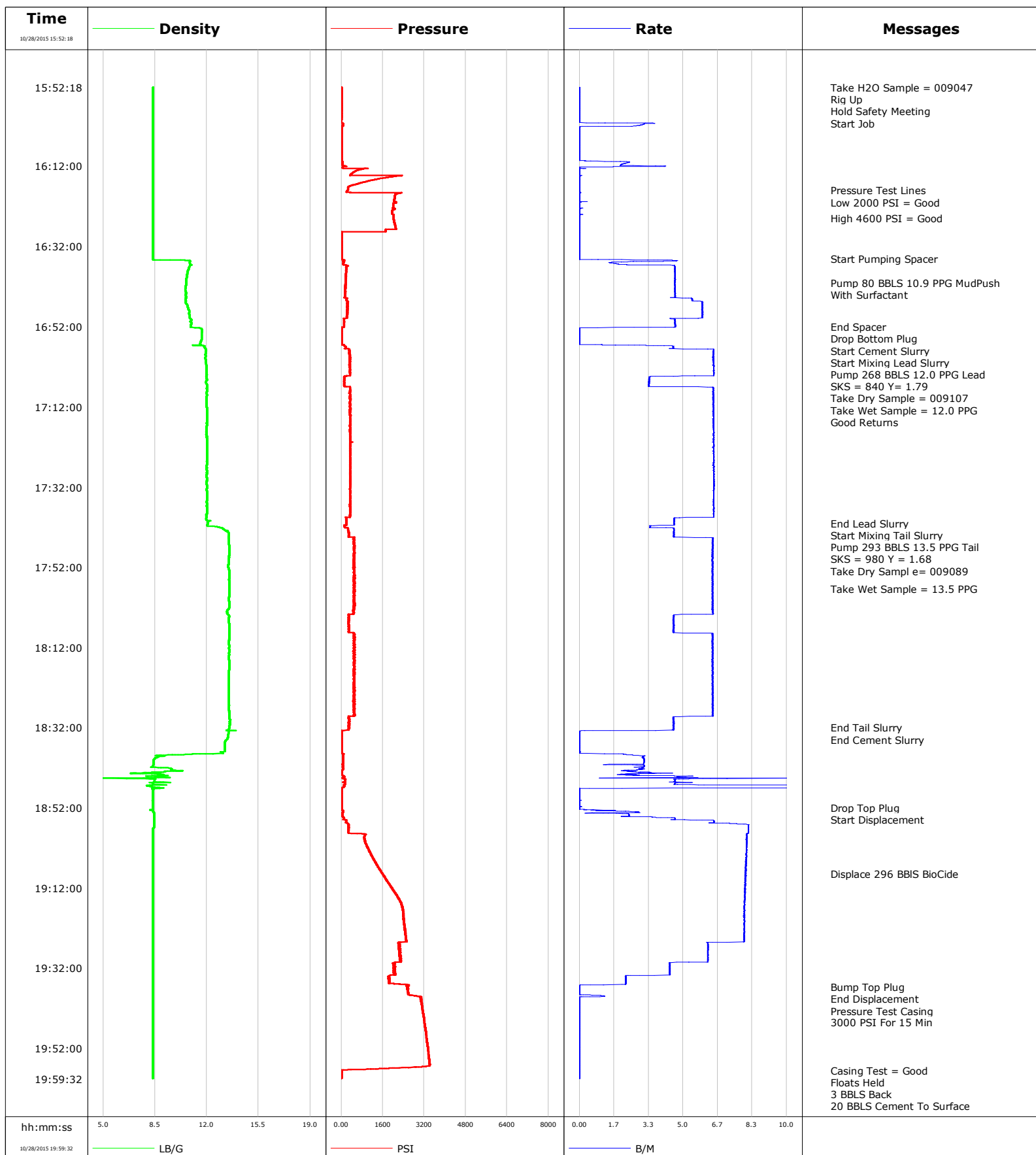


Well Sunflower 40C-17HZ
Field Wattenberg
Engineer Conley Jensen/ Stacy Terry
Country United States

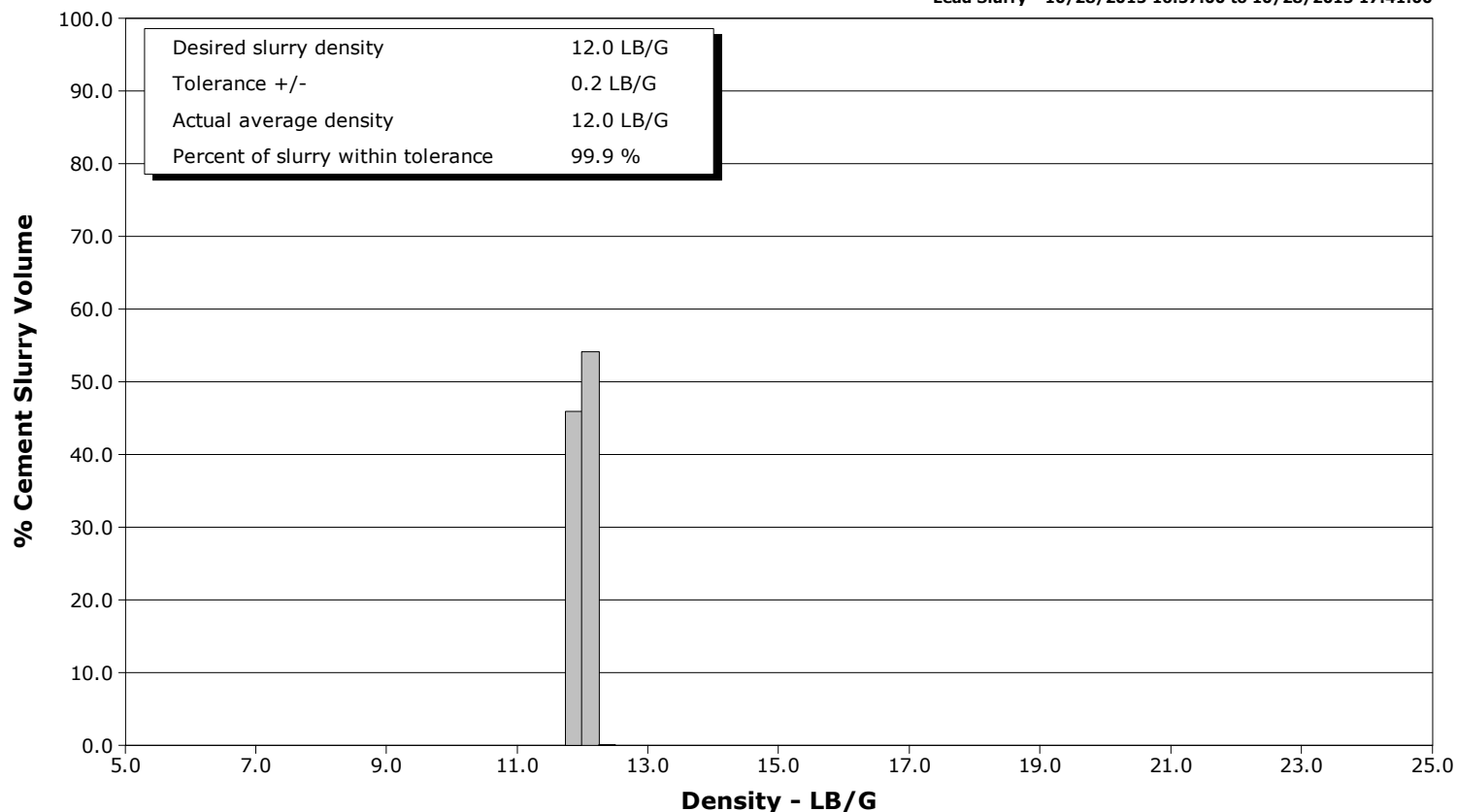
Client Anadarko
SIR No. 2216147
Job Type 5.5" Monobore
Job Date 10-28-2015



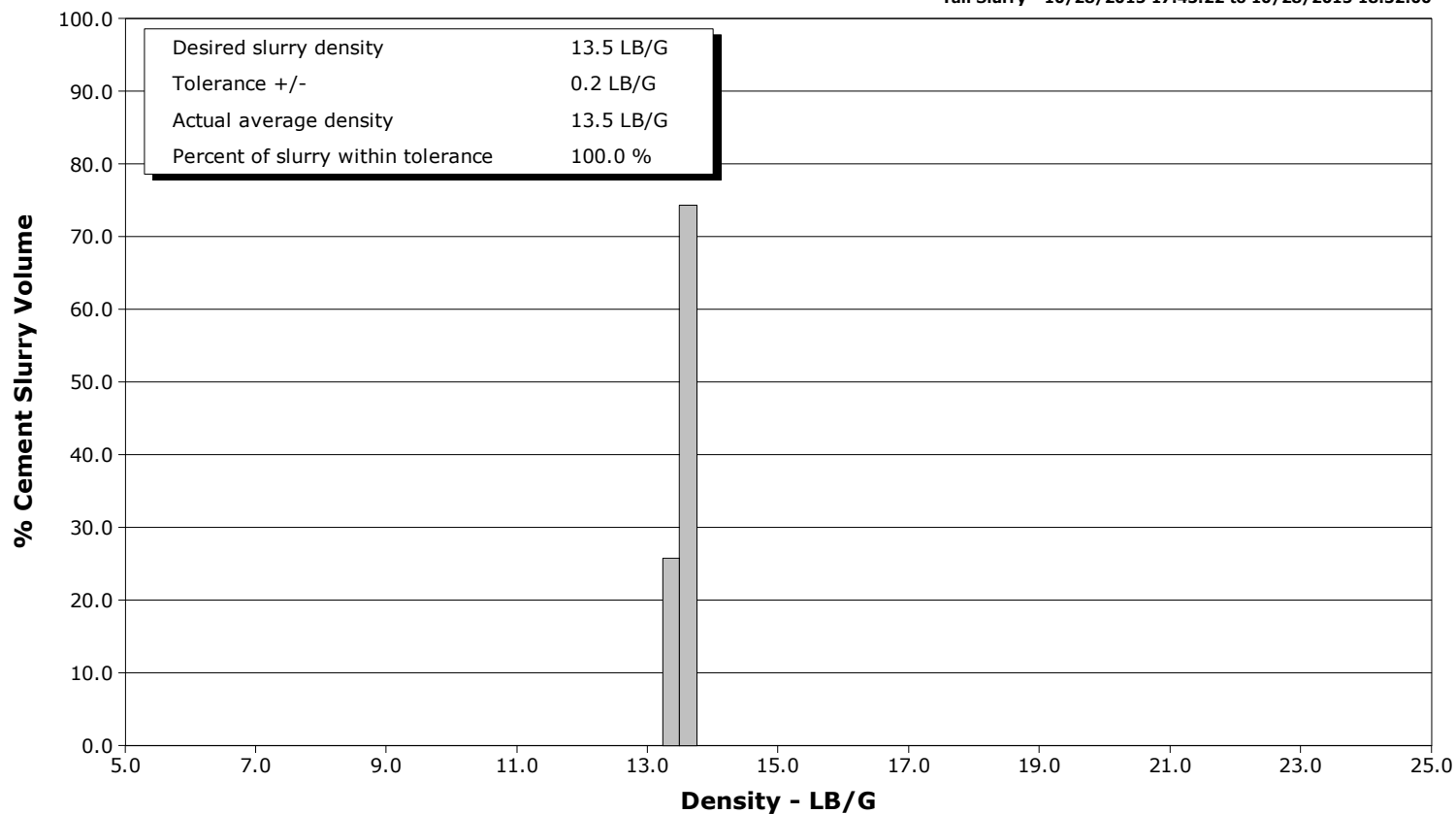
Well Sunflower 40C-17HZ
Field Wattenberg
Engineer Conley Jensen/ Stacy Terry
Country United States

Client Anadarko
SIR No. 2216147
Job Type 5.5" Monobore
Job Date 10-28-2015

Lead Slurry - 10/28/2015 16:57:00 to 10/28/2015 17:41:00



Tail Slurry - 10/28/2015 17:43:22 to 10/28/2015 18:32:00



Cementing Service Report

				Customer Anadarko				Job Number 2216147			
Well Sunflower 40C-17HZ 40C-17HZ			Location (legal) CWY			Schlumberger Location CWY			Job Start Oct/28/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 12838.0 ft		Well TVD 7259.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 234 degF		BHCT 229 degF		Pore Press. Gradient lb/gal	
Well Master 0631651863		API/UWI 05123420680000									
Rig Name Precision 461		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		1888.0		9.6		36.0	
						12838.0		5.5		17.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 5.5" Monobore									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft		No. of Shots	
						ft		ft		Total Interval ft	
						ft		ft		Diameter in	
						Treat Down Casing		Displacement 196.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 198.0 bbl		Annular Vol. 537.0 bbl	
										Openhole Vol. 849.0 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 psi						Shoe Type Guide				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12829.0 ft				Tool Type	
No. Centralizers 0		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft	
Cement Head Type Single						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Oct/28/2015 12:00		Arrived on Location Oct/28/2015 12:00		Leave Location Oct/28/2015 22:00		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 12742.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
10/28/2015	15:52:18	3	0.0	8.37	0.3	Started Acquisition					
10/28/2015	15:52:19	3	0.0	8.37	0.3	Hold Safety Meeting					
10/28/2015	15:53:48	2	0.0	8.37	0.3						
10/28/2015	15:55:18	3	0.0	8.37	0.3						
10/28/2015	15:56:48	3	0.0	8.37	0.3						
10/28/2015	15:58:18	3	0.0	8.37	0.3						
10/28/2015	15:59:48	1	0.0	8.37	0.3						
10/28/2015	16:00:00	1	0.0	8.37	0.3	Start Job					
10/28/2015	16:01:18	41	3.5	8.37	0.5						
10/28/2015	16:02:48	2	0.0	8.37	3.0						
10/28/2015	16:04:18	2	0.0	8.37	3.0						
10/28/2015	16:05:48	1	0.0	8.37	3.0						
10/28/2015	16:07:18	2	0.0	8.37	3.0						
10/28/2015	16:08:48	2	0.0	8.37	3.0						
10/28/2015	16:10:18	1	0.0	8.37	3.1						
10/28/2015	16:11:48	55	2.0	8.37	2.2						
10/28/2015	16:13:18	535	0.0	8.37	0.0						
10/28/2015	16:14:48	1790	0.0	8.37	0.0						
10/28/2015	16:16:18	696	0.0	8.37	0.0						
10/28/2015	16:17:48	264	0.0	8.37	0.0						
10/28/2015	16:18:00	264	0.0	8.37	0.0	Pressure Test Lines					

Well			Field	Job Start		Customer		Job Number	
Sunflower 40C-17HZ 40C-17HZ			Wattenberg		Oct/28/2015		Anadarko		2216147
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/28/2015	16:20:48	2043	0.0	8.37	0.1				
10/28/2015	16:22:18	68	0.0	8.37	0.1				
10/28/2015	16:23:48	71	0.0	8.37	0.1				
10/28/2015	16:25:00	4681	0.0	8.37	0.1	High 4600 PSI = Good			
10/28/2015	16:25:18	4658	0.0	8.37	0.1				
10/28/2015	16:26:48	4572	0.0	8.37	0.1				
10/28/2015	16:28:18	1094	0.0	8.37	0.1				
10/28/2015	16:29:48	3	0.0	8.37	0.2				
10/28/2015	16:31:18	11	0.0	8.37	0.2				
10/28/2015	16:32:48	10	0.0	8.37	0.0				
10/28/2015	16:34:18	10	0.0	8.37	0.0				
10/28/2015	16:35:00	9	0.0	8.37	0.0	Start Pumping Spacer			
10/28/2015	16:35:48	79	2.6	10.86	1.9				
10/28/2015	16:37:18	186	4.6	10.79	6.3				
10/28/2015	16:38:48	179	4.6	10.69	13.2				
10/28/2015	16:40:18	174	4.6	10.61	20.1				
10/28/2015	16:41:06	164	4.6	10.60	23.8	Pump 80 BBLs 10.9 PPG MudPush			
10/28/2015	16:41:48	161	4.6	10.59	27.0				
10/28/2015	16:43:18	159	4.6	10.57	33.9				
10/28/2015	16:44:48	147	4.6	10.60	40.9				
10/28/2015	16:46:18	270	5.9	10.61	49.2				
10/28/2015	16:47:48	246	5.9	10.77	58.1				
10/28/2015	16:49:18	235	5.9	10.84	67.0				
10/28/2015	16:50:48	107	4.6	10.89	74.8				
10/28/2015	16:52:00	111	4.6	10.91	80.3	End Spacer			
10/28/2015	16:52:18	4	0.4	11.35	81.5				
10/28/2015	16:53:48	3	0.0	11.66	81.5				
10/28/2015	16:55:00	3	0.0	11.65	0.0	Drop Bottom Plug			
10/28/2015	16:55:18	3	0.0	11.64	0.0				
10/28/2015	16:56:48	171	4.3	11.79	0.7				
10/28/2015	16:57:00	174	4.5	11.81	1.6	Start Cement Slurry			
10/28/2015	16:58:18	336	6.5	11.92	8.8				
10/28/2015	16:59:48	388	6.5	11.90	18.5				
10/28/2015	17:00:00	395	6.5	11.90	19.8	Pump 268 BBLs 12.0 PPG Lead			
10/28/2015	17:01:18	354	6.5	11.95	28.2				
10/28/2015	17:02:48	365	6.5	12.00	37.9				
10/28/2015	17:03:00	368	6.5	11.99	39.2	SKS = 840 Y= 1.79			
10/28/2015	17:04:18	252	5.6	11.97	47.6				
10/28/2015	17:05:00	131	3.4	11.98	50.2	Take Dry Sample = 009107			
10/28/2015	17:05:48	130	3.4	11.96	52.9				
10/28/2015	17:07:18	385	6.5	12.01	58.8				
10/28/2015	17:08:48	375	6.5	12.00	68.4				
10/28/2015	17:10:00	367	6.5	11.99	76.2	Take Wet Sample = 12.0 PPG			
10/28/2015	17:10:18	366	6.5	11.99	78.1				
10/28/2015	17:11:48	387	6.5	11.99	87.8				
10/28/2015	17:13:18	377	6.5	12.01	97.5				
10/28/2015	17:14:48	362	6.5	12.02	107.2				
10/28/2015	17:15:00	374	6.5	12.01	108.5	Good Returns			
10/28/2015	17:16:18	353	6.5	12.00	116.9				
10/28/2015	17:17:48	376	6.5	11.98	126.6				
10/28/2015	17:19:18	355	6.5	11.99	136.3				
10/28/2015	17:20:48	381	6.5	12.02	146.0				
10/28/2015	17:22:18	376	6.5	12.01	155.7				
10/28/2015	17:23:48	360	6.5	12.01	165.4				

Well			Field	Job Start		Customer	Job Number
Sunflower 40C-17HZ 40C-17HZ			Wattenberg	Oct/28/2015		Anadarko	2216147
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/28/2015	17:26:48	370	6.5	12.00	184.8		
10/28/2015	17:28:18	358	6.5	12.00	194.6		
10/28/2015	17:29:48	349	6.5	12.00	204.3		
10/28/2015	17:31:18	349	6.5	11.99	214.0		
10/28/2015	17:32:48	367	6.5	11.99	223.7		
10/28/2015	17:34:18	362	6.5	12.00	233.4		
10/28/2015	17:35:48	352	6.5	11.99	243.1		
10/28/2015	17:37:18	354	6.5	12.02	252.8		
10/28/2015	17:38:48	350	6.5	11.98	262.5		
10/28/2015	17:40:18	193	4.6	11.98	271.0		
10/28/2015	17:41:00	201	4.6	12.06	274.2	End Lead Slurry	
10/28/2015	17:41:48	120	3.4	12.28	277.6		
10/28/2015	17:43:18	289	4.6	13.43	1.6		
10/28/2015	17:43:22	300	4.6	13.45	1.9	Start Mixing Tail Slurry	
10/28/2015	17:43:26	303	4.5	13.46	2.2	Pump 293 BBLS 13.5 PPG Tail	
10/28/2015	17:43:46	300	4.6	13.50	3.7	Take Dry Sampl e= 009089	
10/28/2015	17:44:48	528	6.4	13.47	8.8		
10/28/2015	17:46:18	516	6.4	13.50	18.5		
10/28/2015	17:47:48	524	6.4	13.52	28.1		
10/28/2015	17:49:18	497	6.4	13.51	37.7		
10/28/2015	17:50:48	505	6.4	13.49	47.4		
10/28/2015	17:52:18	497	6.4	13.48	57.0		
10/28/2015	17:53:48	494	6.4	13.54	66.6		
10/28/2015	17:55:18	529	6.4	13.51	76.2		
10/28/2015	17:56:48	516	6.4	13.52	85.9		
10/28/2015	17:57:22	539	6.4	13.53	89.5	Take Wet Sample = 13.5 PPG	
10/28/2015	17:58:18	548	6.4	13.52	95.5		
10/28/2015	17:59:48	514	6.4	13.47	105.1		
10/28/2015	18:01:18	512	6.4	13.51	114.8		
10/28/2015	18:02:48	499	6.4	13.40	124.4		
10/28/2015	18:04:18	302	4.5	13.51	133.1		
10/28/2015	18:05:48	285	4.5	13.48	139.9		
10/28/2015	18:07:18	305	4.5	13.53	146.7		
10/28/2015	18:08:48	525	6.4	13.53	154.3		
10/28/2015	18:10:18	542	6.4	13.51	163.9		
10/28/2015	18:11:48	514	6.4	13.51	173.5		
10/28/2015	18:13:18	503	6.4	13.51	183.2		
10/28/2015	18:14:48	512	6.4	13.50	192.8		
10/28/2015	18:16:18	514	6.4	13.52	202.4		
10/28/2015	18:17:48	519	6.4	13.50	212.1		
10/28/2015	18:19:18	528	6.4	13.49	221.7		
10/28/2015	18:20:48	518	6.4	13.50	231.3		
10/28/2015	18:22:18	512	6.4	13.50	241.0		
10/28/2015	18:23:48	518	6.4	13.51	250.6		
10/28/2015	18:25:18	502	6.4	13.49	260.3		
10/28/2015	18:26:48	506	6.4	13.50	269.9		
10/28/2015	18:28:18	518	6.4	13.51	279.6		
10/28/2015	18:29:48	315	4.5	13.52	288.1		
10/28/2015	18:31:18	306	4.5	13.55	294.9		
10/28/2015	18:32:00	278	4.6	13.51	298.1	End Tail Slurry	
10/28/2015	18:32:48	15	0.1	13.53	301.5		
10/28/2015	18:34:18	5	0.0	13.42	301.5		
10/28/2015	18:35:48	8	0.0	13.23	301.5		
10/28/2015	18:37:18	7	0.0	13.22	301.5		

Well Sunflower 40C-17HZ 40C-17HZ			Field Wattenberg		Job Start Oct/28/2015		Customer Anadarko		Job Number 2216147	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
10/28/2015	18:40:18	60		3.1	8.40		5.0			
10/28/2015	18:41:48	38		3.0	8.37		9.4			
10/28/2015	18:43:18	29		3.7	7.67		13.6			
10/28/2015	18:44:48	130		5.0	8.46		20.3			
10/28/2015	18:46:18	119		6.7	8.50		27.4			
10/28/2015	18:47:48	9		0.0	8.37		38.7			
10/28/2015	18:49:18	8		0.0	8.37		38.7			
10/28/2015	18:50:48	7		0.0	8.37		38.7			
10/28/2015	18:52:00	8		0.0	8.37		38.7		Drop Top Plug	
10/28/2015	18:52:18	8		0.0	8.37		38.7			
10/28/2015	18:53:48	45		2.4	8.43		2.6			
10/28/2015	18:55:18	194		6.5	8.42		8.8			
10/28/2015	18:56:48	293		8.1	8.43		19.9			
10/28/2015	18:58:18	297		8.1	8.38		32.1			
10/28/2015	18:59:48	891		8.1	8.37		44.2			
10/28/2015	19:01:18	973		8.1	8.37		56.3			
10/28/2015	19:02:48	1079		8.1	8.37		68.4			
10/28/2015	19:04:18	1216		8.0	8.37		80.5			
10/28/2015	19:05:48	1344		8.0	8.37		92.5			
10/28/2015	19:07:18	1484		8.0	8.37		104.6			
10/28/2015	19:08:21	1587		8.0	8.37		113.0		Displace 296 BBIS BioCide	
10/28/2015	19:08:48	1645		8.0	8.37		116.6			
10/28/2015	19:10:18	1791		8.0	8.37		128.6			
10/28/2015	19:11:48	1927		8.0	8.37		140.6			
10/28/2015	19:13:18	2090		8.0	8.37		152.6			
10/28/2015	19:14:48	2232		8.0	8.37		164.5			
10/28/2015	19:16:18	2345		7.9	8.37		176.5			
10/28/2015	19:17:48	2381		7.9	8.37		188.4			
10/28/2015	19:19:18	2416		7.9	8.37		200.3			
10/28/2015	19:20:48	2436		7.9	8.37		212.3			
10/28/2015	19:22:18	2463		7.9	8.37		224.2			
10/28/2015	19:23:48	2487		7.9	8.37		236.1			
10/28/2015	19:25:18	2514		7.9	8.37		248.0			
10/28/2015	19:26:48	2263		6.2	8.37		257.7			
10/28/2015	19:28:18	2263		6.2	8.37		266.9			
10/28/2015	19:29:48	2264		6.2	8.37		276.2			
10/28/2015	19:31:18	2038		4.4	8.37		284.1			
10/28/2015	19:32:48	2014		4.4	8.37		290.6			
10/28/2015	19:34:18	1812		2.2	8.37		296.1			
10/28/2015	19:35:48	1843		2.2	8.37		299.4			
10/28/2015	19:36:40	2531		0.0	8.37		300.1		Bump Top Plug	
10/28/2015	19:36:41	2538		0.0	8.37		300.1		End Displacement	
10/28/2015	19:37:18	2547		0.0	8.37		300.1			
10/28/2015	19:38:48	2747		1.0	8.37		300.2			
10/28/2015	19:39:11	3047		0.0	8.37		300.6		Pressure Test Casing	
10/28/2015	19:40:18	3091		0.0	8.37		300.6			
10/28/2015	19:41:48	3129		0.0	8.38		300.6			
10/28/2015	19:43:18	3162		0.0	8.38		300.6			
10/28/2015	19:44:48	3194		0.0	8.38		300.6			
10/28/2015	19:46:18	3226		0.0	8.38		300.6			
10/28/2015	19:47:48	3256		0.0	8.38		300.6			
10/28/2015	19:49:18	3287		0.0	8.38		300.6			
10/28/2015	19:50:48	3316		0.0	8.38		300.6			
10/28/2015	19:52:18	3343		0.0	8.38		300.6			

Well			Field		Job Start	Customer		Job Number	
Sunflower 40C-17HZ 40C-17HZ			Wattenberg		Oct/28/2015	Anadarko		2216147	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/28/2015	19:55:18	3398	0.0	8.38	300.6				
10/28/2015	19:56:48	2462	0.0	8.38	300.6				
10/28/2015	19:57:27	7	0.0	8.38	300.6	Casing Test = Good			
10/28/2015	19:57:58	6	0.0	8.38	300.6	3 BBLS Back			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 5.2	N2	Mud	Maximum Rate 25.0		Total Slurry 1011.3	Mud 0.0	Spacer 329.1	N2				
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 4955	Final 9	Average 867	Bump Plug to 2600	Breakdown	Type	Volume bbl		Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 561.0 bbl	Displacement 199.0 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 20.0 bbl						
				Washed Thru Perfs <input type="checkbox"/>		To ft						
Customer or Authorized Representative Lance Fatheer			Schlumberger Supervisor Conley Jensen/ Stacy Terry			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>					
						-	-					



Service Order #:	
Date:	Oct/28/2015
Operating Time (hh:mm):	00:00
Client Rep:	Lance Fatheer
Schlumberger Engineer:	Conley Jensen/ Stacy Terry
Schlumberger FSM:	

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

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: