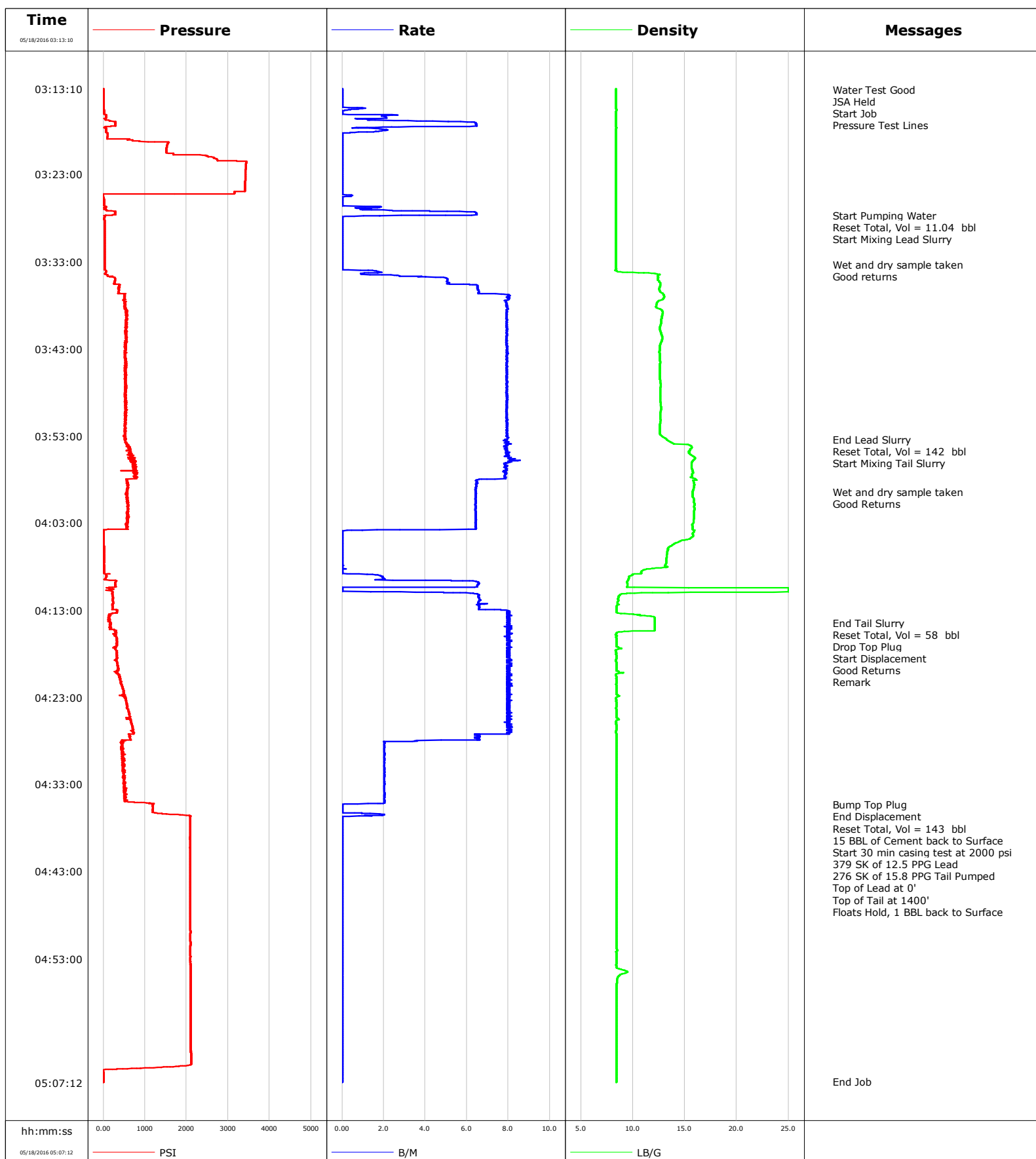


Well 35C-32HZ
Field Wattenberg
Engineer Glenn Mendez
Country United States

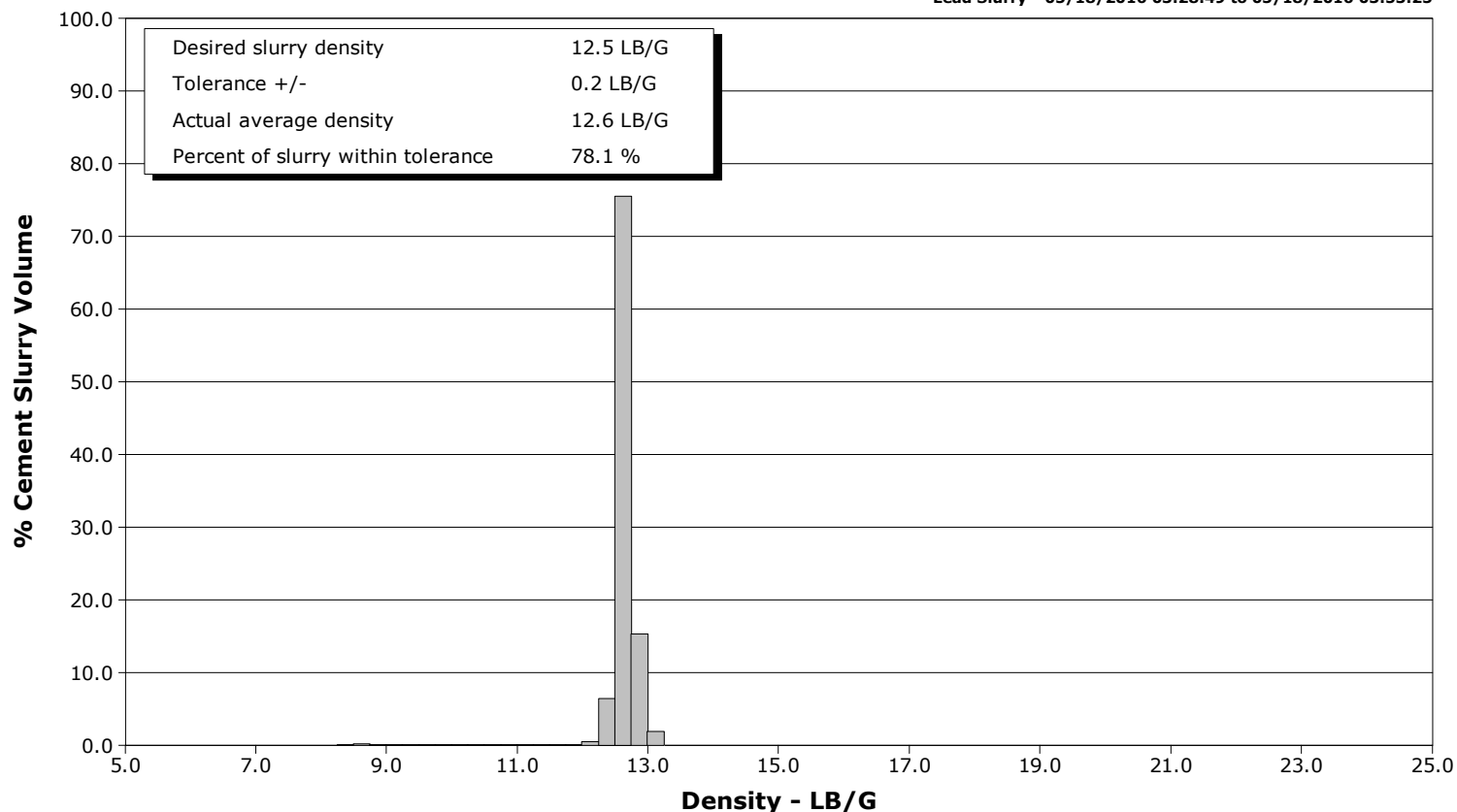
Client Anadarko
SIR No. 2308194
Job Type Surface
Job Date 05-18-2016



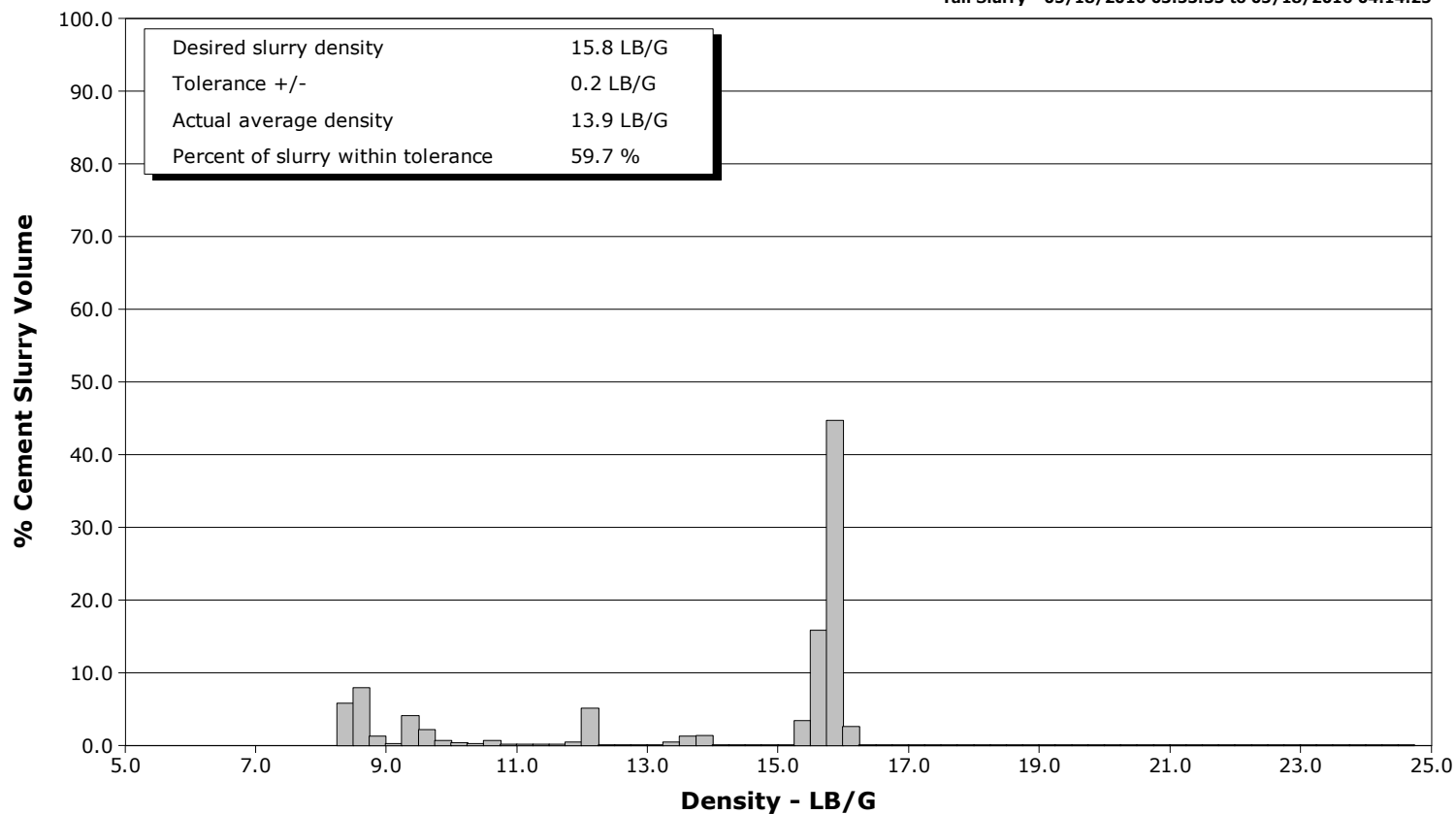
Well 35C-32HZ
Field Wattenberg
Engineer Glenn Mendez
Country United States

Client Anadarko
SIR No. 2308194
Job Type Surface
Job Date 05-18-2016

Lead Slurry - 05/18/2016 03:28:49 to 05/18/2016 03:53:25



Tail Slurry - 05/18/2016 03:53:33 to 05/18/2016 04:14:25



Cementing Service Report

					Customer Anadarko			Job Number 2308194	
Well 35C-32HZ			Location (legal)			Schlumberger Location Jeff Eulberg		Job Start May/18/2016	
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size in		Well MD 1900.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 101 degF		BHCT 81 degF	
Well Master 631662943		API/UWI 5123423970000						Pore Press. Gradient lb/gal	
Rig Name P461		Drilled For Oil & Gas		Service Via Land		Casing/ Liner			
						Depth, ft		Size, in	
						Weight, lb/ft		Grade	
Offshore Zone		Well Class New		Well Type Development		1900.0		9.6	
						0.0		0.0	
Drilling Fluid Type LT OBM		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 Surface							
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole			
						Top, ft		Bottom, ft	
						shot/ft		No. of Shots	
						ft		ft	
						ft		ft	
						ft		ft	
						Treat Down Casing		Displacement 144.0 bbl	
						Packer Type		Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 147.0 bbl	
						Annular Vol. 199.0 bbl		Openhole Vol. 199.0 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 Float		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth ft		Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type		Tool Depth ft	
Cement Head Type						Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For May/18/2016		Arrived on Location May/18/2016		Leave Location May/18/2016		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
05/18/2016	03:13:10	6	0.0	8.39	0.0	0	Started Acquisition		
05/18/2016	03:13:14	6	0.0	8.39	0.0	0	Water Test Good		
05/18/2016	03:13:15	6	0.0	8.39	0.0	0	JSA Held		
05/18/2016	03:13:17	6	0.0	8.39	0.0	0	Start Job		
05/18/2016	03:13:27	6	0.0	8.39	0.0	0	Pressure Test Lines		
05/18/2016	03:13:40	6	0.0	8.39	0.0	0			
05/18/2016	03:14:10	6	0.0	8.39	0.0	0			
05/18/2016	03:14:40	6	0.0	8.39	0.0	0			
05/18/2016	03:15:10	6	0.0	8.39	0.0	0			
05/18/2016	03:15:40	12	0.1	8.40	0.2	0			
05/18/2016	03:16:10	69	2.4	8.36	0.3	0			
05/18/2016	03:16:40	49	1.0	8.39	1.2	0			
05/18/2016	03:17:10	290	6.4	8.39	3.3	0			
05/18/2016	03:17:40	31	0.5	8.40	5.9	0			
05/18/2016	03:18:10	68	0.8	8.39	6.7	0			
05/18/2016	03:18:40	96	0.0	8.39	6.8	0			
05/18/2016	03:19:10	873	0.0	8.39	6.8	0			
05/18/2016	03:19:40	1531	0.0	8.39	6.8	0			
05/18/2016	03:20:10	1513	0.0	8.39	6.8	0			
05/18/2016	03:20:40	1681	0.0	8.39	6.8	0			
05/18/2016	03:21:10	2664	0.0	8.39	6.8	0			

Well			Field		Job Start		Customer		Job Number	
35C-32HZ			Wattenberg		May/18/2016		Anadarko		2308194	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message			
05/18/2016	03:22:10	3425	0.0	8.39	6.8	0				
05/18/2016	03:22:40	3418	0.0	8.39	6.8	0				
05/18/2016	03:23:10	3414	0.0	8.39	6.8	0				
05/18/2016	03:23:40	3410	0.0	8.39	6.8	0				
05/18/2016	03:24:10	3406	0.0	8.39	6.8	0				
05/18/2016	03:24:40	3403	0.0	8.39	6.8	0				
05/18/2016	03:25:10	3154	0.0	8.39	6.8	0				
05/18/2016	03:25:40	11	0.0	8.40	6.9	0				
05/18/2016	03:26:10	15	0.0	8.39	6.9	0				
05/18/2016	03:26:40	58	1.1	8.39	6.9	0				
05/18/2016	03:27:10	77	2.5	8.39	7.6	0				
05/18/2016	03:27:40	217	6.5	8.39	10.6	0				
05/18/2016	03:27:41	217	6.2	8.39	10.7	0	Start Pumping Water			
05/18/2016	03:27:58	24	0.0	8.39	11.0	0	Reset Total, Vol = 11.04 bbl			
05/18/2016	03:28:10	23	0.0	8.39	11.0	0				
05/18/2016	03:28:40	29	0.0	8.39	11.0	0				
05/18/2016	03:28:49	29	0.0	8.39	11.0	0	Start Mixing Lead Slurry			
05/18/2016	03:29:10	29	0.0	8.39	11.0	0				
05/18/2016	03:29:40	29	0.0	8.39	11.0	0				
05/18/2016	03:30:10	29	0.0	8.39	11.0	0				
05/18/2016	03:30:40	29	0.0	8.39	11.0	0				
05/18/2016	03:31:10	29	0.0	8.39	11.0	0				
05/18/2016	03:31:40	30	0.0	8.39	11.0	0				
05/18/2016	03:32:10	31	0.0	8.39	11.0	0				
05/18/2016	03:32:40	31	0.0	8.39	11.0	0				
05/18/2016	03:33:10	32	0.0	8.39	11.0	0				
05/18/2016	03:33:20	31	0.0	8.39	11.0	0	Wet and dry sample taken			
05/18/2016	03:33:40	29	0.0	8.39	11.0	0				
05/18/2016	03:34:04	68	1.6	8.38	11.1	9	Good returns			
05/18/2016	03:34:10	62	1.7	8.57	11.3	9				
05/18/2016	03:34:40	98	2.8	12.39	12.1	9				
05/18/2016	03:35:10	284	5.1	12.44	14.5	9				
05/18/2016	03:35:40	395	6.3	12.62	17.1	7				
05/18/2016	03:36:10	384	6.5	12.54	20.3	10				
05/18/2016	03:36:40	358	6.6	12.86	23.6	15				
05/18/2016	03:37:10	505	8.1	12.99	27.5	18				
05/18/2016	03:37:40	507	7.9	12.36	31.5	18				
05/18/2016	03:38:10	502	7.9	12.22	35.4	17				
05/18/2016	03:38:40	535	7.9	12.82	39.4	11				
05/18/2016	03:39:10	577	7.9	12.82	43.4	13				
05/18/2016	03:39:40	552	7.9	12.72	47.3	17				
05/18/2016	03:40:10	537	7.9	12.70	51.3	20				
05/18/2016	03:40:40	573	7.9	12.59	55.2	21				
05/18/2016	03:41:10	528	7.9	12.70	59.2	23				
05/18/2016	03:41:40	541	7.9	12.82	63.2	25				
05/18/2016	03:42:10	539	7.9	12.76	67.1	25				
05/18/2016	03:42:40	553	7.9	12.60	71.1	25				
05/18/2016	03:43:10	526	7.9	12.56	75.0	25				
05/18/2016	03:43:40	536	7.9	12.57	79.0	25				
05/18/2016	03:44:10	541	7.9	12.59	83.0	25				
05/18/2016	03:44:40	551	7.9	12.61	86.9	24				
05/18/2016	03:45:10	509	7.9	12.60	90.9	25				
05/18/2016	03:45:40	542	7.9	12.57	94.8	25				
05/18/2016	03:46:10	555	7.9	12.57	98.8	25				

Well			Field		Job Start		Customer		Job Number	
35C-32HZ			Wattenberg		May/18/2016		Anadarko		2308194	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message			
05/18/2016	03:47:10	530	7.9	12.66	106.7	26				
05/18/2016	03:47:40	516	7.9	12.64	110.7	26				
05/18/2016	03:48:10	548	7.9	12.62	114.6	26				
05/18/2016	03:48:40	518	7.9	12.64	118.6	26				
05/18/2016	03:49:10	560	7.9	12.66	122.6	26				
05/18/2016	03:49:40	540	7.9	12.71	126.5	26				
05/18/2016	03:50:10	531	7.9	12.68	130.5	26				
05/18/2016	03:50:40	551	7.9	12.65	134.5	27				
05/18/2016	03:51:10	542	7.9	12.66	138.4	27				
05/18/2016	03:51:40	517	7.9	12.61	142.4	27				
05/18/2016	03:52:10	517	7.9	12.59	146.3	27				
05/18/2016	03:52:40	517	7.9	12.60	150.3	25				
05/18/2016	03:53:10	530	7.9	12.96	154.3	29				
05/18/2016	03:53:25	548	7.9	13.24	156.3	33	End Lead Slurry			
05/18/2016	03:53:31	532	7.9	13.34	157.1	33	Reset Total, Vol = 142 bbl			
05/18/2016	03:53:33	525	7.9	13.36	157.3	34	Start Mixing Tail Slurry			
05/18/2016	03:53:40	539	7.9	13.55	158.2	35				
05/18/2016	03:54:10	610	7.9	15.59	162.2	41				
05/18/2016	03:54:40	619	7.9	15.52	166.1	43				
05/18/2016	03:55:10	583	7.9	15.56	170.1	44				
05/18/2016	03:55:40	742	8.3	15.95	174.1	45				
05/18/2016	03:56:10	776	7.8	15.65	178.2	45				
05/18/2016	03:56:40	713	7.9	15.65	182.1	44				
05/18/2016	03:57:10	752	7.9	15.77	186.0	44				
05/18/2016	03:57:40	764	7.8	15.71	189.9	44				
05/18/2016	03:58:10	567	6.4	15.82	193.6	26				
05/18/2016	03:58:40	576	6.4	15.91	196.8	23				
05/18/2016	03:59:10	571	6.4	15.82	200.0	26				
05/18/2016	03:59:29	555	6.4	15.75	202.1	28	Wet and dry sample taken			
05/18/2016	03:59:30	550	6.4	15.74	202.2	29	Good Returns			
05/18/2016	03:59:40	571	6.4	15.73	203.3	30				
05/18/2016	04:00:10	602	6.4	15.84	206.5	22				
05/18/2016	04:00:40	574	6.4	15.86	209.7	17				
05/18/2016	04:01:10	580	6.4	15.89	212.9	12				
05/18/2016	04:01:40	569	6.4	15.88	216.1	10				
05/18/2016	04:02:10	573	6.4	15.89	219.3	9				
05/18/2016	04:02:40	587	6.4	15.83	222.5	6				
05/18/2016	04:03:10	577	6.4	15.72	225.7	4				
05/18/2016	04:03:40	550	6.4	15.72	229.0	20				
05/18/2016	04:04:10	9	0.0	15.78	229.7	0				
05/18/2016	04:04:40	10	0.0	15.65	229.7	0				
05/18/2016	04:05:10	10	0.0	14.44	229.7	0				
05/18/2016	04:05:40	12	0.0	13.64	229.7	0				
05/18/2016	04:06:10	13	0.0	13.35	229.7	0				
05/18/2016	04:06:40	14	0.0	13.27	229.7	0				
05/18/2016	04:07:10	15	0.0	13.21	229.7	0				
05/18/2016	04:07:40	11	0.0	13.19	229.7	0				
05/18/2016	04:08:10	14	0.0	12.46	229.7	0				
05/18/2016	04:08:40	15	0.0	10.78	229.7	0				
05/18/2016	04:09:10	72	1.9	9.63	230.3	3				
05/18/2016	04:09:40	308	6.3	9.48	231.6	9				
05/18/2016	04:10:10	294	6.5	9.46	234.8	11				
05/18/2016	04:10:40	150	0.0	25.00	236.2	5				
05/18/2016	04:11:10	216	6.5	8.88	237.7	2				

Well			Field		Job Start		Customer		Job Number	
35C-32HZ			Wattenberg		May/18/2016		Anadarko		2308194	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message			
05/18/2016	04:12:10	237	6.5	8.52	244.3	37				
05/18/2016	04:12:40	222	6.6	8.42	247.6	0				
05/18/2016	04:13:10	325	8.0	8.40	251.2	0				
05/18/2016	04:13:40	133	7.9	11.41	255.2	0				
05/18/2016	04:14:10	142	8.0	12.11	259.2	0				
05/18/2016	04:14:25	171	8.0	12.11	261.2	0	End Tail Slurry			
05/18/2016	04:14:27	146	8.0	12.11	261.5	0	Reset Total, Vol = 58 bbl			
05/18/2016	04:14:28	159	8.0	12.11	261.6	0	Drop Top Plug			
05/18/2016	04:14:30	195	8.0	12.11	261.9	0	Start Displacement			
05/18/2016	04:14:40	193	8.0	12.11	263.2	0				
05/18/2016	04:15:10	170	8.0	12.11	267.2	0				
05/18/2016	04:15:40	273	7.9	8.41	271.2	0				
05/18/2016	04:15:55	318	8.0	8.45	273.2	0	Good Returns			
05/18/2016	04:15:56	288	8.0	8.49	273.3	0	Remark			
05/18/2016	04:16:10	326	7.9	8.40	275.2	0				
05/18/2016	04:16:40	338	8.0	8.41	279.2	0				
05/18/2016	04:17:10	296	8.0	8.42	283.2	0				
05/18/2016	04:17:40	327	7.9	8.35	287.2	0				
05/18/2016	04:18:10	324	8.0	8.40	291.2	0				
05/18/2016	04:18:40	325	8.0	8.40	295.2	0				
05/18/2016	04:19:10	331	8.0	8.41	299.3	0				
05/18/2016	04:19:40	364	8.0	8.41	303.3	0				
05/18/2016	04:20:10	358	8.0	8.92	307.3	0				
05/18/2016	04:20:40	401	7.9	8.40	311.3	0				
05/18/2016	04:21:10	431	8.0	8.40	315.3	0				
05/18/2016	04:21:40	445	7.9	8.41	319.3	0				
05/18/2016	04:22:10	482	8.0	8.41	323.3	0				
05/18/2016	04:22:40	495	8.0	8.42	327.3	0				
05/18/2016	04:23:10	531	8.0	8.39	331.3	0				
05/18/2016	04:23:40	562	8.0	8.40	335.3	0				
05/18/2016	04:24:10	578	8.0	8.40	339.3	0				
05/18/2016	04:24:40	603	8.0	8.41	343.3	0				
05/18/2016	04:25:10	635	7.9	8.41	347.3	0				
05/18/2016	04:25:40	646	8.0	8.41	351.4	0				
05/18/2016	04:26:10	678	8.0	8.40	355.4	0				
05/18/2016	04:26:40	710	8.0	8.40	359.4	0				
05/18/2016	04:27:10	720	8.0	8.40	363.4	0				
05/18/2016	04:27:40	652	6.6	8.40	366.7	0				
05/18/2016	04:28:10	412	2.1	8.40	369.2	0				
05/18/2016	04:28:40	429	2.1	8.40	370.2	0				
05/18/2016	04:29:10	450	2.0	8.40	371.2	0				
05/18/2016	04:29:40	466	2.0	8.40	372.2	0				
05/18/2016	04:30:10	453	2.1	8.40	373.3	0				
05/18/2016	04:30:40	505	2.0	8.40	374.3	0				
05/18/2016	04:31:10	467	2.1	8.40	375.3	0				
05/18/2016	04:31:40	481	2.1	8.40	376.3	0				
05/18/2016	04:32:10	511	2.0	8.40	377.3	0				
05/18/2016	04:32:40	484	2.0	8.40	378.3	0				
05/18/2016	04:33:10	513	2.0	8.40	379.4	0				
05/18/2016	04:33:40	490	2.0	8.40	380.4	0				
05/18/2016	04:34:10	574	2.0	8.40	381.4	0				
05/18/2016	04:34:40	517	2.0	8.40	382.4	0				
05/18/2016	04:35:10	1170	2.0	8.40	383.4	0				
05/18/2016	04:35:20	1195	0.0	8.40	383.5	0	Bump Top Plug			

Well			Field		Job Start	Customer	Job Number
35C-32HZ			Wattenberg		May/18/2016	Anadarko	2308194
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
05/18/2016	04:35:24	1183	0.0	8.40	383.5	0	Reset Total, Vol = 143 bbl
05/18/2016	04:35:27	1188	0.0	8.41	383.5	0	15 BBL of Cement back to Surface
05/18/2016	04:35:29	1186	0.0	8.40	383.5	0	Start 30 min casing test at 2000 psi
05/18/2016	04:35:35	1185	0.0	8.40	383.5	0	379 SK of 12.5 PPG Lead
05/18/2016	04:35:40	1185	0.0	8.40	383.5	0	
05/18/2016	04:36:10	1186	0.0	8.40	383.5	0	
05/18/2016	04:36:40	2101	0.1	8.40	384.1	0	
05/18/2016	04:37:10	2086	0.0	8.41	384.1	0	
05/18/2016	04:37:16	2085	0.0	8.40	384.1	0	276 SK of 15.8 PPG Tail Pumped
05/18/2016	04:37:17	2085	0.0	8.40	384.1	0	Top of Lead at 0'
05/18/2016	04:37:18	2086	0.0	8.40	384.1	0	Top of Tail at 1400'
05/18/2016	04:37:40	2083	0.0	8.40	384.1	0	
05/18/2016	04:38:10	2090	0.0	8.40	384.1	0	
05/18/2016	04:38:40	2083	0.0	8.41	384.1	0	
05/18/2016	04:39:10	2081	0.0	8.41	384.1	0	
05/18/2016	04:39:40	2082	0.0	8.41	384.1	0	
05/18/2016	04:40:10	2082	0.0	8.41	384.1	0	
05/18/2016	04:40:40	2082	0.0	8.41	384.1	0	
05/18/2016	04:41:10	2083	0.0	8.41	384.1	0	
05/18/2016	04:41:40	2083	0.0	8.41	384.1	0	
05/18/2016	04:42:10	2083	0.0	8.40	384.1	0	
05/18/2016	04:42:40	2084	0.0	8.40	384.1	0	
05/18/2016	04:43:10	2084	0.0	8.40	384.1	0	
05/18/2016	04:43:40	2085	0.0	8.40	384.1	0	
05/18/2016	04:44:10	2086	0.0	8.40	384.1	0	
05/18/2016	04:44:40	2086	0.0	8.40	384.1	0	
05/18/2016	04:45:10	2087	0.0	8.40	384.1	0	
05/18/2016	04:45:40	2088	0.0	8.40	384.1	0	
05/18/2016	04:46:10	2088	0.0	8.40	384.1	0	
05/18/2016	04:46:40	2088	0.0	8.41	384.1	0	
05/18/2016	04:47:10	2089	0.0	8.41	384.1	0	
05/18/2016	04:47:40	2089	0.0	8.40	384.1	0	
05/18/2016	04:48:10	2089	0.0	8.40	384.1	0	
05/18/2016	04:48:40	2090	0.0	8.41	384.1	0	
05/18/2016	04:49:10	2090	0.0	8.41	384.1	0	
05/18/2016	04:49:40	2090	0.0	8.41	384.1	0	
05/18/2016	04:50:10	2092	0.0	8.41	384.1	0	
05/18/2016	04:50:40	2091	0.0	8.41	384.1	0	
05/18/2016	04:51:10	2099	0.0	8.41	384.1	0	
05/18/2016	04:51:40	2093	0.0	8.41	384.1	0	
05/18/2016	04:52:10	2092	0.0	8.43	384.1	0	
05/18/2016	04:52:40	2092	0.0	8.41	384.1	0	
05/18/2016	04:53:10	2093	0.0	8.42	384.1	0	
05/18/2016	04:53:40	2093	0.0	8.41	384.1	0	
05/18/2016	04:54:10	2094	0.0	8.71	384.1	0	
05/18/2016	04:54:40	2101	0.0	9.24	384.1	0	
05/18/2016	04:55:10	2101	0.0	8.54	384.1	0	
05/18/2016	04:55:40	2102	0.0	8.46	384.1	0	
05/18/2016	04:56:10	2097	0.0	8.43	384.1	0	
05/18/2016	04:56:40	2097	0.0	8.41	384.1	0	
05/18/2016	04:57:10	2097	0.0	8.41	384.1	0	
05/18/2016	04:57:40	2103	0.0	8.41	384.1	0	
05/18/2016	04:58:10	2099	0.0	8.41	384.1	0	
05/18/2016	04:58:40	2099	0.0	8.41	384.1	0	

Well			Field		Job Start	Customer		Job Number
35C-32HZ			Wattenberg		May/18/2016	Anadarko		2308194
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message	
05/18/2016	04:59:40	2101	0.0	8.41	384.1	0		
05/18/2016	05:00:10	2101	0.0	8.41	384.1	0		
05/18/2016	05:00:40	2102	0.0	8.41	384.1	0		
05/18/2016	05:01:10	2102	0.0	8.41	384.1	0		
05/18/2016	05:01:40	2103	0.0	8.41	384.1	0		
05/18/2016	05:02:10	2104	0.0	8.41	384.1	0		
05/18/2016	05:02:40	2104	0.0	8.41	384.1	0		
05/18/2016	05:03:10	2105	0.0	8.41	384.1	0		
05/18/2016	05:03:40	2105	0.0	8.41	384.1	0		
05/18/2016	05:04:10	2106	0.0	8.41	384.1	0		
05/18/2016	05:04:40	2107	0.0	8.41	384.1	0		
05/18/2016	05:05:10	2107	0.0	8.41	384.1	0		
05/18/2016	05:05:40	335	0.0	8.41	384.1	0		
05/18/2016	05:06:10	2	0.0	8.41	384.1	0		
05/18/2016	05:06:40	6	0.0	8.41	384.1	0		
05/18/2016	05:07:04	7	0.0	8.41	384.1	0	End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 6.4	N2	Mud	Maximum Rate 8.6		Total Slurry 384.1	Mud 0.0	Spacer 11.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3442	Final 8	Average 945	Bump Plug to	Breakdown	Type	Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 121.8 bbl		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl		
						Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative			Schlumberger Supervisor Glenn Mendez			Circulation Lost <input type="checkbox"/>		Job Completed <input type="checkbox"/>		
						-		-		