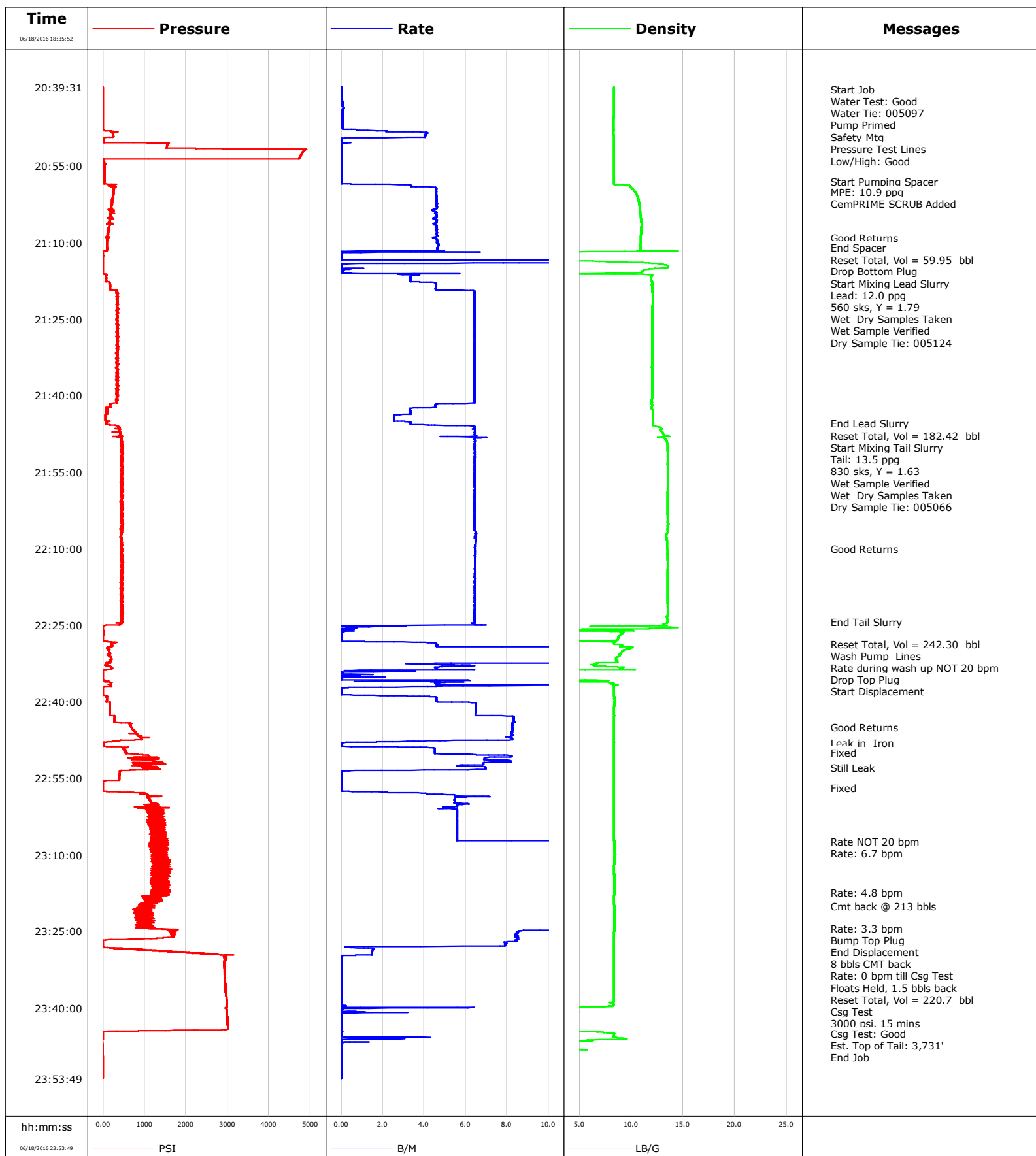


**Well** Land Fed 13S-32HZ  
**Field** Wattenberg  
**Engineer** Matlock/Baird  
**Country** United States

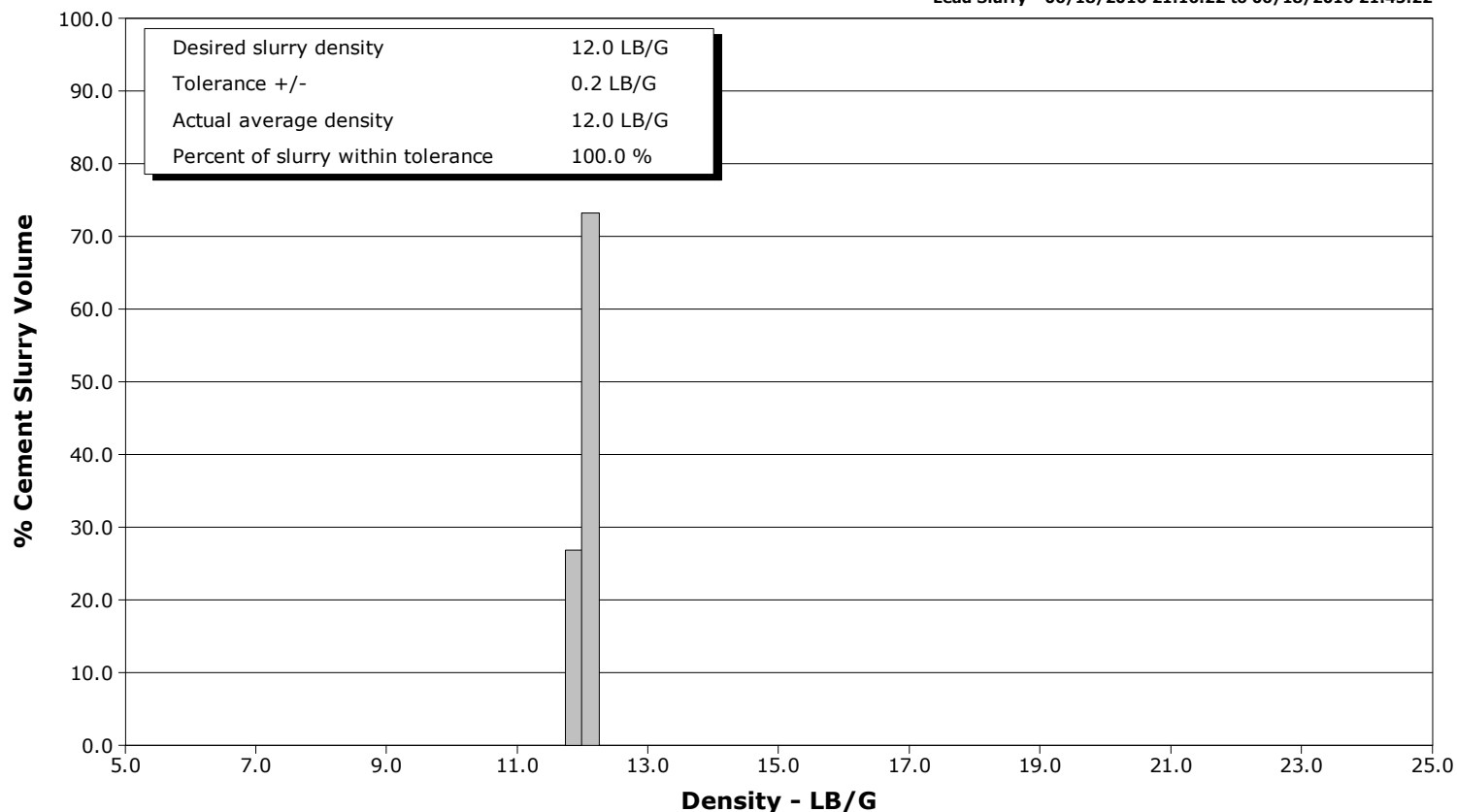
**Client** Anadarko  
**SIR No.** D5VO-01311  
**Job Type** Production  
**Job Date** 06-18-2016



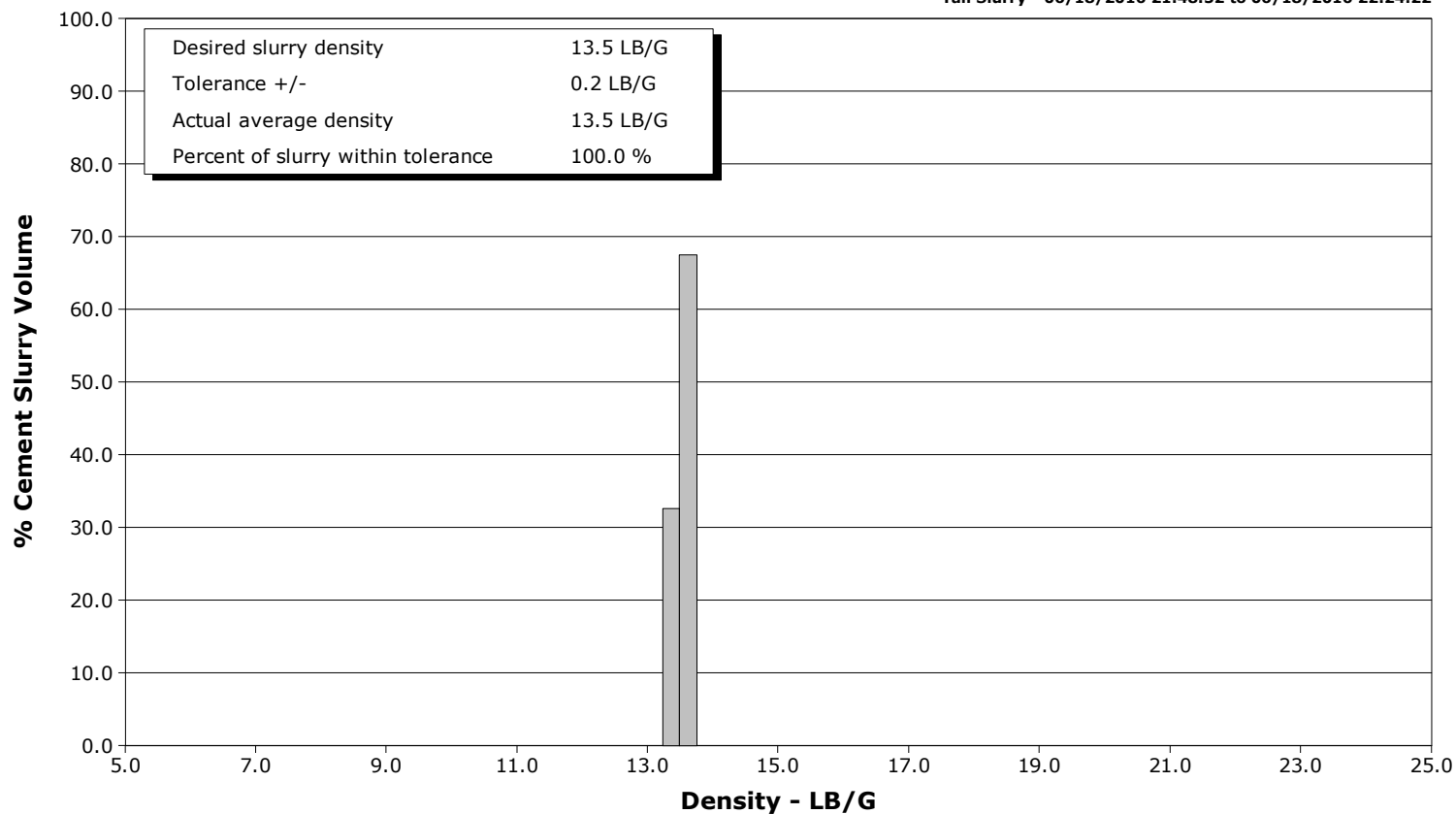
**Well** Land Fed 13S-32HZ  
**Field** Wattenberg  
**Engineer** Matlock/Baird  
**Country** United States

**Client** Anadarko  
**SIR No.** D5VO-01311  
**Job Type** Production  
**Job Date** 06-18-2016

**Lead Slurry - 06/18/2016 21:16:22 to 06/18/2016 21:45:22**



**Tail Slurry - 06/18/2016 21:48:52 to 06/18/2016 22:24:22**



# Cementing Service Report

				Customer Anadarko			Job Number D5VO-01311								
Well Land Fed 13S-32HZ			Location (legal)			Schlumberger Location Cheyenne			Job Start Jun/18/2016						
Field Wattenberg		Formation Name/Type			Deviation deg		Bit Size 8.5 in		Well MD 9594.0 ft		Well TVD 4661.0 ft				
County Weld		State/Province CO			BHP psi		BHST 167 degF		BHCT 165 degF		Pore Press. Gradient lb/gal				
Well Master 631662910		API/UWI 5123423910000													
Rig Name Precision 461		Drilled For N/A		Service Via Land		Casing/ Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class New		Well Type Development		9584.0		5.5		17.0		P-110			
						0.0		0.0		0.0					
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 Production													
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Double Cement head		Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval	
						ft		ft						ft	
						ft		ft						Diameter	
						ft		ft						in	
						Treat Down Casing		Displacement 220.7 bbl		Packer Type		Packer Depth ft			
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl		Openhole Vol. 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 9584.0 ft				Tool Type					
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft					
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in					
Job Scheduled For Jun/18/2016 18:00		Arrived on Location Jun/18/2016 18:00		Leave Location Jun/19/2016 01:00		Collar Type 9492				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	Message									
06/18/2016	20:40:00	-0	0.0	8.32	0.0	Start Job									
06/18/2016	20:40:30	-1	0.0	8.32	0.0										
06/18/2016	20:41:00	-1	0.0	8.32	0.0	Water Test: Good									
06/18/2016	20:41:30	-1	0.0	8.32	0.0	Water Tie: 005097									
06/18/2016	20:42:00	-1	0.0	8.31	0.0	Pump Primed									
06/18/2016	20:42:30	-1	0.1	8.31	0.0										
06/18/2016	20:43:00	-1	0.1	8.31	0.1	Safety Mtg									
06/18/2016	20:43:30	-1	0.1	8.31	0.1										
06/18/2016	20:44:00	-3	0.1	8.31	0.2										
06/18/2016	20:44:30	-4	0.1	8.30	0.2										
06/18/2016	20:45:00	-4	0.1	8.30	0.2										
06/18/2016	20:45:30	-4	0.1	8.30	0.2										
06/18/2016	20:46:00	-4	0.1	8.30	0.3										
06/18/2016	20:46:30	-4	0.1	8.30	0.3										
06/18/2016	20:47:00	-5	0.1	8.30	0.3										
06/18/2016	20:47:30	-3	0.1	8.30	0.4										
06/18/2016	20:48:00	14	0.9	8.30	0.2										
06/18/2016	20:48:30	226	4.2	8.25	1.5										
06/18/2016	20:49:00	241	4.0	8.31	3.6										
06/18/2016	20:49:30	15	0.2	8.32	5.4										
06/18/2016	20:50:00	13	0.0	8.31	5.4	Pressure Test Lines									

Well			Field	Job Start		Customer	Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko	D5VO-01311
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/18/2016	20:51:00	1544	0.0	8.31	5.4			
06/18/2016	20:51:30	1530	0.0	8.31	5.4			
06/18/2016	20:52:00	4840	0.0	8.31	5.4			
06/18/2016	20:52:30	4791	0.0	8.31	5.4			
06/18/2016	20:53:00	4758	0.0	8.31	5.4			
06/18/2016	20:53:30	4730	0.0	8.32	5.4			
06/18/2016	20:54:00	1	0.0	8.32	5.4	Low/High: Good		
06/18/2016	20:54:30	24	0.0	8.32	5.4			
06/18/2016	20:55:00	30	0.0	8.32	5.4			
06/18/2016	20:55:30	31	0.0	8.32	5.4			
06/18/2016	20:56:00	33	0.0	8.32	5.4			
06/18/2016	20:56:30	25	0.0	8.32	5.4			
06/18/2016	20:57:00	29	0.0	8.32	5.4			
06/18/2016	20:57:30	28	0.0	8.32	5.4			
06/18/2016	20:58:00	28	0.0	8.32	5.4	Start Pumping Spacer		
06/18/2016	20:58:30	34	0.3	8.32	5.4			
06/18/2016	20:59:00	218	3.4	9.88	6.7			
06/18/2016	20:59:30	267	4.6	10.14	8.9			
06/18/2016	21:00:00	254	4.6	10.34	11.2	MPE: 10.9 ppg		
06/18/2016	21:00:30	252	4.6	10.49	13.5			
06/18/2016	21:01:00	236	4.6	10.60	15.8	CemPRIME SCRUB Added		
06/18/2016	21:01:30	216	4.6	10.68	18.1			
06/18/2016	21:02:00	220	4.6	10.74	20.4			
06/18/2016	21:02:30	215	4.6	10.78	22.7			
06/18/2016	21:03:00	202	4.6	10.81	25.0			
06/18/2016	21:03:30	175	4.4	10.83	27.3			
06/18/2016	21:04:00	190	4.6	10.84	29.5			
06/18/2016	21:04:30	171	4.6	10.89	31.8			
06/18/2016	21:05:00	171	4.6	10.93	34.1			
06/18/2016	21:05:30	173	4.6	10.95	36.3			
06/18/2016	21:06:00	155	4.6	10.98	38.6			
06/18/2016	21:06:30	179	4.5	11.00	40.9			
06/18/2016	21:07:00	157	4.6	10.97	43.2			
06/18/2016	21:07:30	131	4.6	10.96	45.5			
06/18/2016	21:08:00	123	4.6	10.95	47.8			
06/18/2016	21:08:30	102	4.6	10.93	50.1			
06/18/2016	21:09:00	74	4.4	10.90	52.4	Good Returns		
06/18/2016	21:09:30	99	4.6	10.89	54.6			
06/18/2016	21:10:00	90	4.6	10.90	56.9			
06/18/2016	21:10:30	91	4.7	10.86	59.3			
06/18/2016	21:11:00	96	4.6	10.89	61.6	End Spacer		
06/18/2016	21:11:30	94	4.6	10.81	63.9			
06/18/2016	21:12:00	-3	0.1	0.32	65.4			
06/18/2016	21:12:19	-2	0.0	0.28	65.4	Reset Total, Vol = 59.95 bbl		
06/18/2016	21:12:30	5	0.0	0.27	65.4			
06/18/2016	21:13:00	-6	0.0	0.30	65.4	Drop Bottom Plug		
06/18/2016	21:13:30	-8	25.0	2.69	66.0			
06/18/2016	21:14:00	-8	7.8	11.74	77.1			
06/18/2016	21:14:30	-8	0.0	13.54	77.7			
06/18/2016	21:15:00	-7	0.0	13.21	77.7			
06/18/2016	21:15:30	-9	0.1	11.12	77.8			
06/18/2016	21:16:00	-7	0.5	7.55	77.8			
06/18/2016	21:16:22	82	3.8	12.02	78.7	Start Mixing Lead Slurry		
06/18/2016	21:16:30	77	3.4	11.98	79.2			

Well			Field	Job Start		Customer		Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko		D5VO-01311
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/18/2016	21:17:30	77	3.3	11.98	82.5				
06/18/2016	21:18:00	165	4.6	11.99	84.5	Lead: 12.0 ppg			
06/18/2016	21:18:30	169	4.6	11.99	86.8				
06/18/2016	21:19:00	166	4.6	12.01	89.1	560 sks, Y = 1.79			
06/18/2016	21:19:30	328	6.4	12.02	91.6				
06/18/2016	21:20:00	321	6.4	12.06	94.8	Wet Dry Samples Taken			
06/18/2016	21:20:30	348	6.4	12.08	98.0				
06/18/2016	21:21:00	350	6.4	12.08	101.2	Wet Sample Verified			
06/18/2016	21:21:30	353	6.4	12.08	104.5				
06/18/2016	21:22:00	351	6.4	12.06	107.7	Dry Sample Tie: 005124			
06/18/2016	21:22:30	326	6.4	12.03	110.9				
06/18/2016	21:23:00	372	6.4	12.02	114.1				
06/18/2016	21:23:30	350	6.4	12.01	117.3				
06/18/2016	21:24:00	345	6.4	12.01	120.5				
06/18/2016	21:24:30	353	6.4	12.01	123.7				
06/18/2016	21:25:00	334	6.4	12.00	127.0				
06/18/2016	21:25:30	353	6.4	12.01	130.2				
06/18/2016	21:26:00	342	6.4	12.01	133.4				
06/18/2016	21:26:30	349	6.4	12.00	136.6				
06/18/2016	21:27:00	343	6.4	12.00	139.8				
06/18/2016	21:27:30	344	6.4	12.01	143.1				
06/18/2016	21:28:00	351	6.4	12.01	146.3				
06/18/2016	21:28:30	348	6.4	12.02	149.5				
06/18/2016	21:29:00	349	6.4	12.02	152.7				
06/18/2016	21:29:30	344	6.4	12.02	155.9				
06/18/2016	21:30:00	347	6.4	12.01	159.1				
06/18/2016	21:30:30	352	6.4	12.01	162.4				
06/18/2016	21:31:00	350	6.4	12.01	165.6				
06/18/2016	21:31:30	348	6.4	12.01	168.8				
06/18/2016	21:32:00	340	6.4	12.01	172.0				
06/18/2016	21:32:30	359	6.4	12.00	175.2				
06/18/2016	21:33:00	354	6.4	12.00	178.4				
06/18/2016	21:33:30	338	6.4	12.00	181.6				
06/18/2016	21:34:00	352	6.4	12.00	184.9				
06/18/2016	21:34:30	332	6.4	11.99	188.1				
06/18/2016	21:35:00	343	6.4	12.01	191.3				
06/18/2016	21:35:30	314	6.4	12.01	194.5				
06/18/2016	21:36:00	342	6.4	12.01	197.7				
06/18/2016	21:36:30	335	6.4	12.01	200.9				
06/18/2016	21:37:00	342	6.4	12.00	204.1				
06/18/2016	21:37:30	340	6.4	12.01	207.4				
06/18/2016	21:38:00	320	6.4	12.00	210.6				
06/18/2016	21:38:30	331	6.4	12.00	213.8				
06/18/2016	21:39:00	352	6.4	12.00	217.0				
06/18/2016	21:39:30	335	6.4	11.99	220.2				
06/18/2016	21:40:00	346	6.4	11.99	223.4				
06/18/2016	21:40:30	342	6.4	12.00	226.6				
06/18/2016	21:41:00	344	6.4	11.97	229.8				
06/18/2016	21:41:30	167	5.4	11.97	233.1				
06/18/2016	21:42:00	163	4.5	11.99	235.4				
06/18/2016	21:42:30	108	3.3	11.98	237.5				
06/18/2016	21:43:00	117	3.3	12.08	239.2				
06/18/2016	21:43:30	110	3.3	12.07	240.9				
06/18/2016	21:44:00	56	2.5	12.07	242.3				

Well			Field	Job Start		Customer		Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko		D5VO-01311
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/18/2016	21:45:00	157	2.5	12.04	244.9				
06/18/2016	21:45:22	85	3.3	12.04	246.0	End Lead Slurry			
06/18/2016	21:45:30	86	3.3	12.04	246.5				
06/18/2016	21:46:00	370	6.4	12.35	248.7				
06/18/2016	21:46:30	288	6.4	12.92	251.9				
06/18/2016	21:47:00	392	6.4	12.91	255.1				
06/18/2016	21:47:30	417	6.4	13.07	258.3				
06/18/2016	21:47:47	389	6.5	13.16	260.1	Reset Total, Vol = 182.42 bbl			
06/18/2016	21:48:00	234	5.1	13.74	261.5				
06/18/2016	21:48:30	445	6.4	13.27	264.8				
06/18/2016	21:48:52	436	6.5	13.38	267.1	Start Mixing Tail Slurry			
06/18/2016	21:49:00	445	6.5	13.41	268.0				
06/18/2016	21:49:30	433	6.5	13.47	271.2				
06/18/2016	21:50:00	438	6.4	13.51	274.4	Tail: 13.5 ppg			
06/18/2016	21:50:30	455	6.4	13.49	277.6				
06/18/2016	21:51:00	436	6.5	13.53	280.9	830 sks, Y = 1.63			
06/18/2016	21:51:30	447	6.5	13.53	284.1				
06/18/2016	21:52:00	455	6.4	13.52	287.3	Wet Sample Verified			
06/18/2016	21:52:30	454	6.4	13.52	290.5				
06/18/2016	21:53:00	447	6.4	13.52	293.8	Wet Dry Samples Taken			
06/18/2016	21:53:30	421	6.4	13.51	297.0				
06/18/2016	21:54:00	459	6.4	13.53	300.2	Dry Sample Tie: 005066			
06/18/2016	21:54:30	440	6.4	13.55	303.4				
06/18/2016	21:55:00	448	6.5	13.55	306.6				
06/18/2016	21:55:30	451	6.5	13.54	309.9				
06/18/2016	21:56:00	448	6.4	13.54	313.1				
06/18/2016	21:56:30	459	6.4	13.53	316.3				
06/18/2016	21:57:00	466	6.4	13.53	319.5				
06/18/2016	21:57:30	458	6.4	13.52	322.7				
06/18/2016	21:58:00	427	6.4	13.53	325.9				
06/18/2016	21:58:30	428	6.4	13.53	329.2				
06/18/2016	21:59:00	438	6.4	13.51	332.4				
06/18/2016	21:59:30	419	6.4	13.51	335.6				
06/18/2016	22:00:00	447	6.4	13.51	338.8				
06/18/2016	22:00:30	419	6.4	13.50	342.0				
06/18/2016	22:01:00	449	6.4	13.50	345.3				
06/18/2016	22:01:30	465	6.4	13.50	348.5				
06/18/2016	22:02:00	475	6.4	13.51	351.7				
06/18/2016	22:02:30	460	6.4	13.51	354.9				
06/18/2016	22:03:00	453	6.4	13.51	358.1				
06/18/2016	22:03:30	452	6.4	13.52	361.4				
06/18/2016	22:04:00	456	6.4	13.52	364.6				
06/18/2016	22:04:30	464	6.4	13.52	367.8				
06/18/2016	22:05:00	474	6.4	13.54	371.0				
06/18/2016	22:05:30	449	6.4	13.52	374.2				
06/18/2016	22:06:00	466	6.4	13.50	377.4				
06/18/2016	22:06:30	425	6.5	13.52	380.6				
06/18/2016	22:07:00	429	6.5	13.41	383.9				
06/18/2016	22:07:30	431	6.5	13.37	387.1				
06/18/2016	22:08:00	447	6.5	13.39	390.4				
06/18/2016	22:08:30	426	6.5	13.42	393.6				
06/18/2016	22:09:00	435	6.5	13.45	396.8				
06/18/2016	22:09:30	455	6.5	13.46	400.1				
06/18/2016	22:10:00	422	6.5	13.46	403.3	Good Returns			

Well			Field	Job Start		Customer		Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko		D5VO-01311
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/18/2016	22:11:00	463	6.5	13.47	409.8				
06/18/2016	22:11:30	468	6.5	13.48	413.0				
06/18/2016	22:12:00	448	6.4	13.51	416.2				
06/18/2016	22:12:30	476	6.5	13.52	419.4				
06/18/2016	22:13:00	453	6.4	13.52	422.7				
06/18/2016	22:13:30	470	6.4	13.52	425.9				
06/18/2016	22:14:00	455	6.4	13.51	429.1				
06/18/2016	22:14:30	475	6.4	13.51	432.3				
06/18/2016	22:15:00	464	6.4	13.51	435.6				
06/18/2016	22:15:30	469	6.4	13.51	438.8				
06/18/2016	22:16:00	475	6.4	13.51	442.0				
06/18/2016	22:16:30	451	6.4	13.49	445.2				
06/18/2016	22:17:00	431	6.4	13.48	448.4				
06/18/2016	22:17:30	452	6.4	13.49	451.7				
06/18/2016	22:18:00	441	6.4	13.49	454.9				
06/18/2016	22:18:30	440	6.4	13.49	458.1				
06/18/2016	22:19:00	476	6.4	13.50	461.3				
06/18/2016	22:19:30	466	6.4	13.50	464.5				
06/18/2016	22:20:00	441	6.5	13.51	467.8				
06/18/2016	22:20:30	456	6.4	13.50	471.0				
06/18/2016	22:21:00	453	6.4	13.53	474.2				
06/18/2016	22:21:30	458	6.5	13.52	477.4				
06/18/2016	22:22:00	438	6.4	13.53	480.7				
06/18/2016	22:22:30	470	6.4	13.54	483.9				
06/18/2016	22:23:00	449	6.4	13.50	487.1				
06/18/2016	22:23:30	430	6.4	13.45	490.3				
06/18/2016	22:24:00	446	6.4	13.47	493.5				
06/18/2016	22:24:22	467	6.4	13.47	495.9	End Tail Slurry			
06/18/2016	22:24:30	435	6.4	13.46	496.7				
06/18/2016	22:25:00	73	5.0	13.09	499.9				
06/18/2016	22:25:30	-4	0.8	13.73	500.7				
06/18/2016	22:26:00	-1	0.0	9.67	500.8				
06/18/2016	22:26:30	3	0.0	9.11	500.8				
06/18/2016	22:27:00	-3	0.0	8.87	500.8				
06/18/2016	22:27:30	-5	0.0	8.74	500.8				
06/18/2016	22:28:00	-2	0.0	8.65	500.8				
06/18/2016	22:28:30	227	4.5	8.31	501.8				
06/18/2016	22:28:39	217	4.6	8.31	502.5	Reset Total, Vol = 242.30 bbl			
06/18/2016	22:29:00	219	4.6	9.12	504.1	Wash Pump Lines			
06/18/2016	22:29:30	94	20.6	10.00	510.5				
06/18/2016	22:30:00	140	21.0	9.18	520.9	Rate during wash up NOT 20 bpm			
06/18/2016	22:30:30	144	21.2	8.95	531.4				
06/18/2016	22:31:00	152	20.8	8.83	541.6				
06/18/2016	22:31:30	193	23.4	8.53	552.6				
06/18/2016	22:32:00	173	22.8	8.60	564.2				
06/18/2016	22:32:30	94	3.7	6.69	573.1				
06/18/2016	22:33:00	94	5.6	7.38	575.5				
06/18/2016	22:33:30	193	4.6	8.95	577.9				
06/18/2016	22:34:00	-7	2.7	3.52	579.5	Drop Top Plug			
06/18/2016	22:34:30	-3	0.0	3.46	579.8				
06/18/2016	22:35:00	-4	0.0	1.92	580.0	Start Displacement			
06/18/2016	22:35:30	-11	0.0	2.10	580.1				
06/18/2016	22:36:00	13	1.0	1.93	581.3				
06/18/2016	22:36:30	187	4.6	8.24	583.4				

Well			Field	Job Start		Customer		Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko		D5VO-01311
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/18/2016	22:37:30	-6	0.0	8.32	590.0				
06/18/2016	22:38:00	-5	0.0	8.32	590.0				
06/18/2016	22:38:30	-6	0.0	8.33	590.0				
06/18/2016	22:39:00	97	4.5	8.36	590.8				
06/18/2016	22:39:30	88	4.6	8.38	593.1				
06/18/2016	22:40:00	79	4.6	8.37	595.4				
06/18/2016	22:40:30	161	6.5	8.36	598.5				
06/18/2016	22:41:00	157	6.5	8.34	601.7				
06/18/2016	22:41:30	159	6.5	8.33	604.9				
06/18/2016	22:42:00	162	6.5	8.33	608.2				
06/18/2016	22:42:30	161	6.5	8.33	611.4				
06/18/2016	22:43:00	281	8.3	8.35	615.1				
06/18/2016	22:43:30	274	8.3	8.34	619.3				
06/18/2016	22:44:00	276	8.4	8.33	623.5				
06/18/2016	22:44:30	652	8.2	8.33	627.6				
06/18/2016	22:45:00	674	8.2	8.33	631.7	Good Returns			
06/18/2016	22:45:30	722	8.3	8.34	635.9				
06/18/2016	22:46:00	782	8.2	8.33	640.0				
06/18/2016	22:46:30	822	8.3	8.34	644.1				
06/18/2016	22:47:00	885	8.2	8.33	648.2				
06/18/2016	22:47:30	775	8.1	8.33	652.3				
06/18/2016	22:48:00	18	0.1	8.34	654.2	Leak in Iron			
06/18/2016	22:48:30	7	0.0	8.33	654.2				
06/18/2016	22:49:00	542	4.4	8.33	654.8				
06/18/2016	22:49:30	504	4.5	8.33	657.0				
06/18/2016	22:50:00	566	4.5	8.33	659.3	Fixed			
06/18/2016	22:50:30	1088	8.0	8.33	662.1				
06/18/2016	22:51:00	819	6.9	8.33	666.0				
06/18/2016	22:51:30	1214	8.1	8.33	669.5				
06/18/2016	22:52:00	1253	6.9	8.33	673.4				
06/18/2016	22:52:30	700	5.6	8.33	676.7				
06/18/2016	22:53:00	1341	6.9	8.33	679.9	Still Leak			
06/18/2016	22:53:30	411	0.7	8.33	682.9				
06/18/2016	22:54:00	401	0.0	8.33	682.9				
06/18/2016	22:54:30	393	0.0	8.33	682.9				
06/18/2016	22:55:00	389	0.0	8.33	682.9				
06/18/2016	22:55:30	-4	0.0	8.33	682.9				
06/18/2016	22:56:00	-5	0.0	8.33	682.9				
06/18/2016	22:56:30	-5	0.0	8.33	682.9				
06/18/2016	22:57:00	-4	0.0	8.33	682.9	Fixed			
06/18/2016	22:57:30	-2	0.0	8.33	682.9				
06/18/2016	22:58:00	933	4.1	8.33	684.0				
06/18/2016	22:58:30	1297	6.4	8.33	686.5				
06/18/2016	22:59:00	1121	5.5	8.33	689.5				
06/18/2016	22:59:30	1152	5.5	8.33	692.2				
06/18/2016	23:00:00	1300	6.1	8.33	695.0				
06/18/2016	23:00:30	1316	5.6	8.33	697.8				
06/18/2016	23:01:00	1065	5.5	8.33	700.4				
06/18/2016	23:01:30	1334	5.6	8.33	703.2				
06/18/2016	23:02:00	1295	5.6	8.33	706.0				
06/18/2016	23:02:30	1477	5.6	8.33	708.8				
06/18/2016	23:03:00	1299	5.6	8.32	711.6				
06/18/2016	23:03:30	1439	5.6	8.32	714.4				
06/18/2016	23:04:00	1320	5.6	8.32	717.2				



Well			Field	Job Start		Customer		Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko		D5VO-01311
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/18/2016	23:05:00	1132	5.6	8.33	722.8				
06/18/2016	23:05:30	1408	5.6	8.33	725.6				
06/18/2016	23:06:00	1138	5.6	8.33	728.3				
06/18/2016	23:06:30	1476	5.6	8.33	731.2				
06/18/2016	23:07:00	1227	5.6	8.33	734.5				
06/18/2016	23:07:21	1454	20.4	8.40	736.8	Rate NOT 20 bpm			
06/18/2016	23:07:22	1454	20.7	8.41	736.9	Rate: 6.7 bpm			
06/18/2016	23:07:30	1483	21.0	8.39	737.8				
06/18/2016	23:08:00	1270	21.0	8.38	741.0				
06/18/2016	23:08:30	1420	20.8	8.37	744.3				
06/18/2016	23:09:00	1558	20.7	8.37	747.7				
06/18/2016	23:09:30	1336	20.6	8.37	750.9				
06/18/2016	23:10:00	1164	21.3	8.41	754.2				
06/18/2016	23:10:30	1320	21.2	8.36	757.5				
06/18/2016	23:11:00	1220	21.1	8.36	760.8				
06/18/2016	23:11:30	1488	21.0	8.36	764.1				
06/18/2016	23:12:00	1485	20.8	8.34	767.3				
06/18/2016	23:12:30	1562	20.6	8.34	770.7				
06/18/2016	23:13:00	1556	20.5	8.34	774.0				
06/18/2016	23:13:30	1493	20.4	8.34	777.3				
06/18/2016	23:14:00	1170	21.1	8.35	780.6				
06/18/2016	23:14:30	1538	21.1	8.36	783.8				
06/18/2016	23:15:00	1367	21.1	8.36	787.1				
06/18/2016	23:15:30	1523	21.0	8.36	790.4				
06/18/2016	23:16:00	1388	20.9	8.37	793.7				
06/18/2016	23:16:30	1482	20.8	8.36	797.0				
06/18/2016	23:17:00	1465	20.7	8.37	800.3				
06/18/2016	23:17:22	1315	20.6	8.37	802.7	Rate: 4.8 bpm			
06/18/2016	23:17:30	1444	20.5	8.37	803.5				
06/18/2016	23:18:00	1548	21.1	8.34	806.8				
06/18/2016	23:18:30	1240	21.1	8.34	809.2				
06/18/2016	23:19:00	1176	21.0	8.33	811.5				
06/18/2016	23:19:30	1036	20.9	8.35	813.8				
06/18/2016	23:20:00	859	20.8	8.35	816.2	Cmt back @ 213 bbls			
06/18/2016	23:20:30	999	21.0	8.36	818.5				
06/18/2016	23:21:00	754	21.1	8.36	820.3				
06/18/2016	23:21:30	883	21.0	8.36	822.0				
06/18/2016	23:22:00	831	21.0	8.37	823.7				
06/18/2016	23:22:30	1231	21.0	8.37	825.4				
06/18/2016	23:23:00	1044	20.9	8.37	827.1				
06/18/2016	23:23:30	1157	20.8	8.37	828.8				
06/18/2016	23:24:00	1130	20.8	8.37	830.5				
06/18/2016	23:24:22	1056	20.7	8.37	831.7	Rate: 3.3 bpm			
06/18/2016	23:24:23	1088	20.7	8.37	831.8	Bump Top Plug			
06/18/2016	23:24:25	916	20.7	8.37	831.9	End Displacement			
06/18/2016	23:24:26	1102	20.9	8.37	831.9	8 bbls CMT back			
06/18/2016	23:24:30	1413	21.1	8.36	832.2				
06/18/2016	23:24:50	1754	8.7	8.37	832.8	Rate: 0 bpm till Csg Test			
06/18/2016	23:25:00	1598	8.6	8.35	832.8				
06/18/2016	23:25:30	1729	8.5	8.34	832.8				
06/18/2016	23:26:00	1663	8.5	8.33	832.8				
06/18/2016	23:26:30	940	8.5	8.33	832.8				
06/18/2016	23:27:00	-8	8.4	8.33	832.8	Floats Held, 1.5 bbls back			
06/18/2016	23:27:30	-7	7.9	8.32	832.8				

Well			Field		Job Start		Customer		Job Number	
Land Fed 13S-32HZ			Wattenberg		Jun/18/2016		Anadarko		D5VO-01311	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
06/18/2016	23:28:04	1	0.2	8.32	832.8	Reset Total, Vol = 220.7 bbl				
06/18/2016	23:28:30	613	1.6	8.33	833.6					
06/18/2016	23:29:00	1558	1.5	8.32	834.7					
06/18/2016	23:29:30	2578	1.5	8.32	835.9					
06/18/2016	23:30:00	2915	0.0	8.32	836.3	Csg Test				
06/18/2016	23:30:30	2968	0.0	8.32	836.3					
06/18/2016	23:31:00	2909	0.0	8.32	836.3					
06/18/2016	23:31:30	2935	0.0	8.32	836.3					
06/18/2016	23:32:00	2917	0.0	8.32	836.3					
06/18/2016	23:32:30	2930	0.0	8.32	836.3					
06/18/2016	23:33:00	2925	0.0	8.32	836.3					
06/18/2016	23:33:30	2934	0.0	8.32	836.3					
06/18/2016	23:34:00	2933	0.0	8.32	836.3					
06/18/2016	23:34:30	2939	0.0	8.32	836.3					
06/18/2016	23:35:00	2941	0.0	8.32	836.3	3000 psi, 15 mins				
06/18/2016	23:35:30	2945	0.0	8.32	836.3					
06/18/2016	23:36:00	2949	0.0	8.32	836.3					
06/18/2016	23:36:30	2951	0.0	8.32	836.3					
06/18/2016	23:37:00	2955	0.0	8.32	836.3					
06/18/2016	23:37:30	2958	0.0	8.32	836.3					
06/18/2016	23:38:00	2976	0.0	8.32	836.3					
06/18/2016	23:38:30	2979	0.0	8.32	836.3					
06/18/2016	23:39:00	2983	0.0	8.06	836.3					
06/18/2016	23:39:30	2986	0.0	8.31	836.3					
06/18/2016	23:40:00	2953	5.7	2.45	836.3					
06/18/2016	23:40:30	2985	0.0	0.09	836.3					
06/18/2016	23:41:00	2988	0.1	0.08	836.3					
06/18/2016	23:41:30	2990	0.0	0.06	836.3					
06/18/2016	23:42:00	2992	0.0	0.06	836.3					
06/18/2016	23:42:30	2996	0.0	0.06	836.3					
06/18/2016	23:43:00	3000	0.0	0.06	836.3					
06/18/2016	23:43:30	3003	0.0	0.05	836.3					
06/18/2016	23:44:00	3006	0.0	0.05	836.3					
06/18/2016	23:44:30	861	0.0	0.05	836.3					
06/18/2016	23:45:00	-11	0.1	8.36	836.3	Csg Test: Good				
06/18/2016	23:45:05	-10	0.0	8.34	836.3	Est. Top of Tail: 3,731'				
06/18/2016	23:45:30	-9	0.0	8.33	836.3					
06/18/2016	23:46:00	-10	2.5	9.42	836.3	End Job				
06/18/2016	23:46:30	-31	0.0	4.99	836.3					
06/18/2016	23:47:00	-23	0.0	0.07	836.3					
06/18/2016	23:47:30	-15	0.0	0.07	836.3					
06/18/2016	23:48:00	-14	0.0	0.06	836.3					
06/18/2016	23:48:30	-16	0.0	0.07	836.3					
06/18/2016	23:49:00	-13	0.0	0.06	836.3					
06/18/2016	23:49:30	-11	0.0	0.06	836.3					
06/18/2016	23:50:00	-11	0.0	0.06	836.3					
06/18/2016	23:50:30	-11	0.0	0.06	836.3					
06/18/2016	23:51:00	-10	0.0	0.06	836.3					
06/18/2016	23:51:30	-11	0.0	0.06	836.3					
06/18/2016	23:52:00	-10	0.0	0.06	836.3					
06/18/2016	23:52:30	-10	0.0	0.06	836.3					
06/18/2016	23:53:00	-10	0.0	0.06	836.3					

<b>Well</b> Land Fed 13S-32HZ	<b>Field</b> Wattenberg	<b>Job Start</b> Jun/18/2016	<b>Customer</b> Anadarko	<b>Job Number</b> D5VO-01311
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## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry 425.0	Mud	Spacer 60.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to 1700	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 419.0 bbl	Displacement 220.7 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 8.0 bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Joe Wallem			Schlumberger Supervisor Matlock/Baird			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-