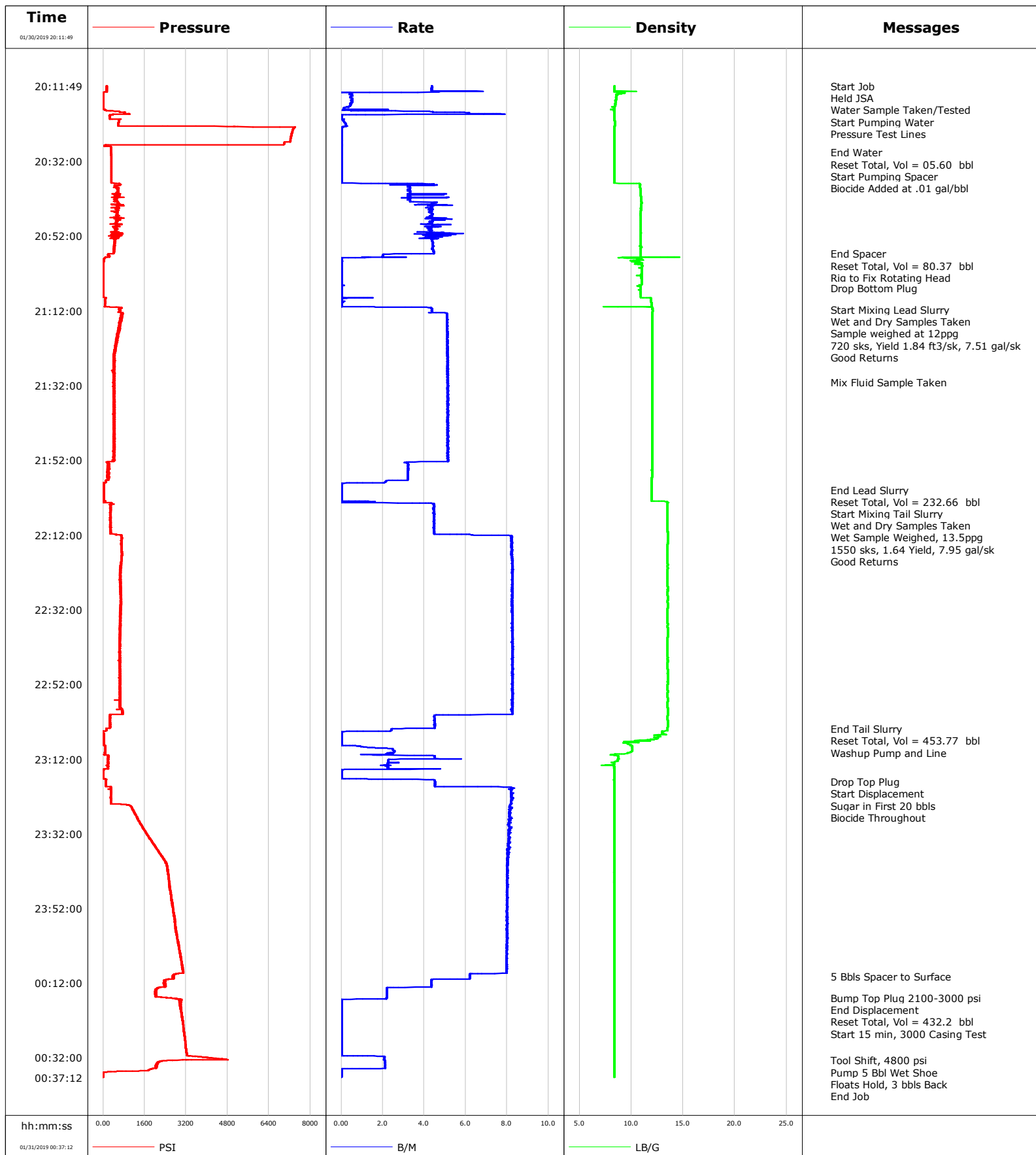


**Well** Castle Pines 19-18HZ  
**Field** Wattenberg  
**Engineer** Ryan Drilling/Sheldon Bell  
**Country** United States

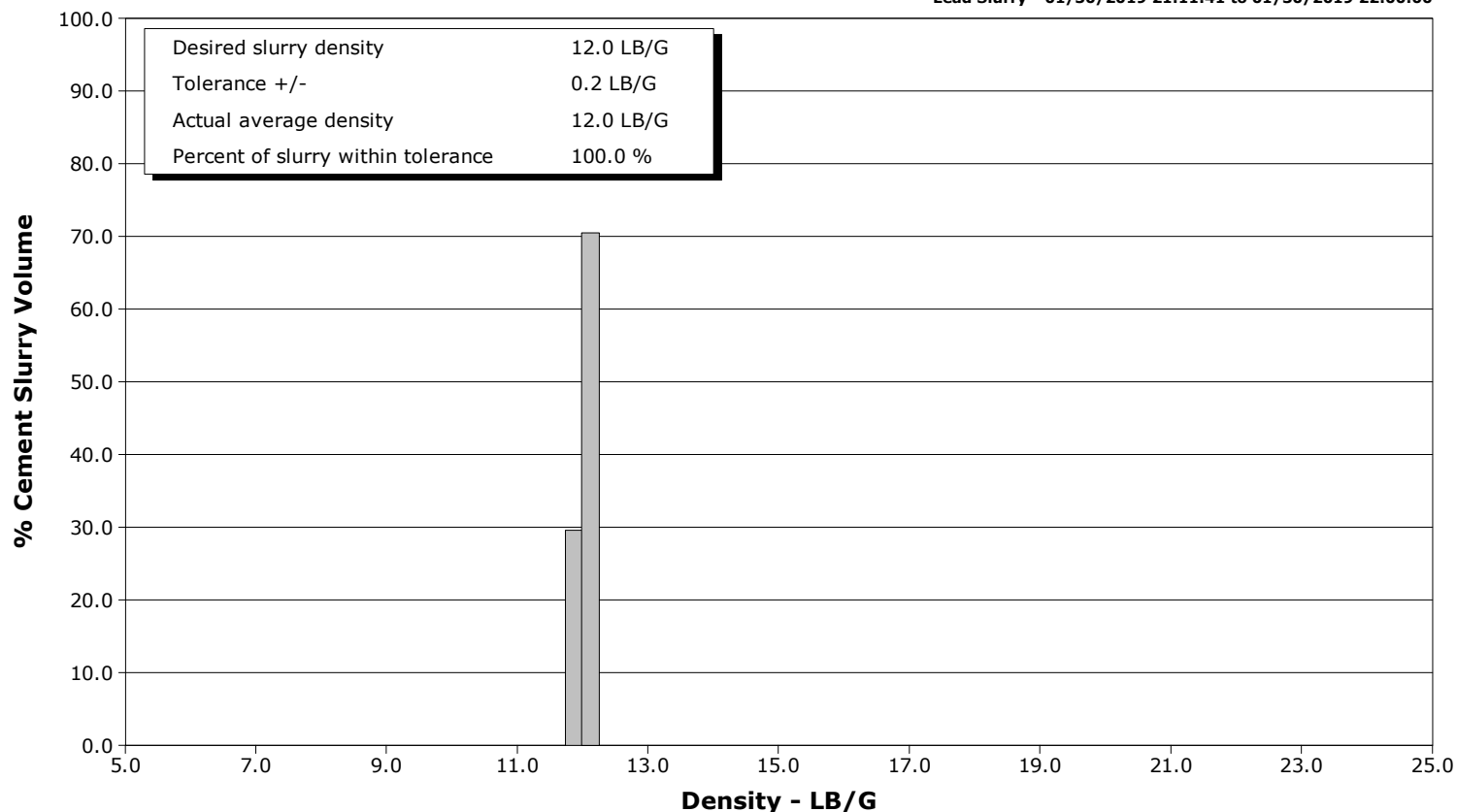
**Client** Anadarko Petroleum  
**SIR No.** E9LW-00002  
**Job Type** 5.5" Production  
**Job Date** 01-30-2019



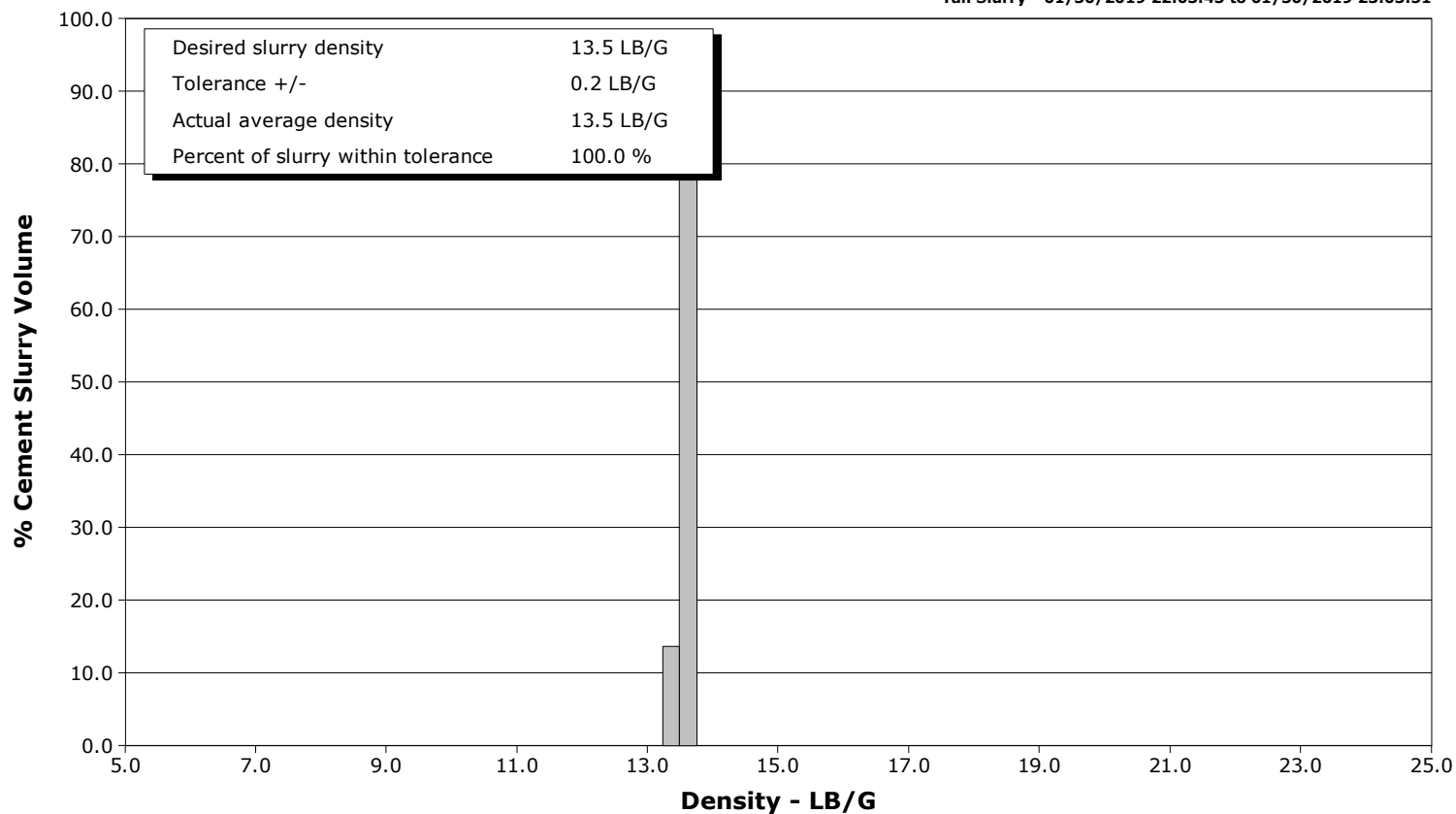
**Well** Castle Pines 19-18HZ  
**Field** Wattenberg  
**Engineer** Ryan Drilling/Sheldon Bell  
**Country** United States

**Client** Anadarko Petroleum  
**SIR No.** E9LW-00002  
**Job Type** 5.5" Production  
**Job Date** 01-30-2019

**Lead Slurry - 01/30/2019 21:11:41 to 01/30/2019 22:00:00**



**Tail Slurry - 01/30/2019 22:03:43 to 01/30/2019 23:03:51**



# Cementing Service Report

				Customer Anadarko Petroleum			Job Number E9LW-00002						
Well Castle Pines 19-18HZ			Location (legal) CWY			Schlumberger Location CWY			Job Start Jan/30/2019				
Field Wattenberg		Formation Name/Type			Deviation 90 deg		Bit Size 8.5 in		Well MD 18615.0 ft		Well TVD 7280.0 ft		
County Wattenberg		State/Province Colorado			BHP psi		BHST 230 degF		BHCT 230 degF		Pore Press. Gradient lb/gal		
Well Master 0631787269		API/UWI											
Rig Name Precision 564		Drilled For Oil & Gas		Service Via Land		Casing/ Liner							
						Depth, ft		Size, in		Weight, lb/ft		Grade	
						18604.0		5.5		17.0		p110	
Offshore Zone		Well Class New		Well Type Development		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	
Service Line Cementing		Job Type 5.5" 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	
						ft		ft					
						ft		ft				Diameter in	
						Treat Down Casing		Displacement 432.2 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 2100 psi						Shoe Type Float				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 18604.0 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 Jan/30/2019 11:30		Arrived on Location Jan/30/2019 11:30		Leave Location Jan/30/2019 02:00		Collar Type Float				Tail Pipe Depth ft			
						Collar Depth 18590.0 ft				Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message							
01/30/2019	20:11:49	137	4.4	8.37	0.0	Started Acquisition							
01/30/2019	20:11:50	141	4.4	8.37	0.0	Start Job							
01/30/2019	20:11:51	126	4.4	8.36	0.0	Held JSA							
01/30/2019	20:11:55	143	4.4	8.36	0.0	Start Pumping Water							
01/30/2019	20:11:57	138	4.4	8.36	0.0	Pressure Test Lines							
01/30/2019	20:12:49	136	4.4	8.36	0.0								
01/30/2019	20:13:49	15	0.5	9.36	0.0								
01/30/2019	20:14:49	9	0.5	8.54	0.0								
01/30/2019	20:15:49	8	0.5	8.47	0.0								
01/30/2019	20:16:49	8	0.5	8.48	0.0								
01/30/2019	20:17:49	11	0.1	8.37	0.0								
01/30/2019	20:18:49	636	4.4	8.35	1.4								
01/30/2019	20:19:49	240	0.0	8.38	5.6								
01/30/2019	20:20:49	633	0.1	8.37	5.7								
01/30/2019	20:21:49	591	0.2	8.40	5.8								
01/30/2019	20:22:49	5793	0.1	8.38	6.0								
01/30/2019	20:23:49	7304	0.0	8.38	6.0								
01/30/2019	20:24:49	7268	0.0	8.39	6.0								
01/30/2019	20:26:49	7214	0.0	8.39	0.0								
01/30/2019	20:27:49	53	0.0	8.39	0.0								
01/30/2019	20:28:49	299	0.0	8.35	0.0								

Well			Field	Job Start		Customer	Job Number
Castle Pines 19-18HZ			Wattenberg	Jan/30/2019		Anadarko Petroleum	E9LW-00002
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/30/2019	20:29:41	306	0.0	8.36	0.0	Reset Total, Vol = 05.60 bbl	
01/30/2019	20:29:43	306	0.0	8.36	0.0	Start Pumping Spacer	
01/30/2019	20:29:47	306	0.0	8.36	0.0	Biocide Added at .01 gal/bbl	
01/30/2019	20:29:49	306	0.0	8.36	0.0		
01/30/2019	20:30:49	307	0.0	8.36	0.0		
01/30/2019	20:31:49	308	0.0	8.36	0.0		
01/30/2019	20:32:49	307	0.0	8.36	0.0		
01/30/2019	20:33:49	308	0.0	8.36	0.0		
01/30/2019	20:34:49	308	0.0	8.36	0.0		
01/30/2019	20:35:49	309	0.0	8.36	0.0		
01/30/2019	20:36:49	308	0.0	8.35	0.0		
01/30/2019	20:37:49	309	0.0	8.35	0.0		
01/30/2019	20:38:49	455	3.3	10.83	3.3		
01/30/2019	20:39:49	610	3.3	10.90	6.6		
01/30/2019	20:40:49	675	3.3	10.90	10.0		
01/30/2019	20:41:49	537	3.3	10.94	13.5		
01/30/2019	20:42:49	475	3.3	10.98	16.8		
01/30/2019	20:43:49	584	4.8	10.96	21.1		
01/30/2019	20:44:49	564	4.4	10.93	25.5		
01/30/2019	20:45:49	524	4.3	10.90	29.8		
01/30/2019	20:46:49	599	4.4	10.91	34.2		
01/30/2019	20:47:49	510	4.6	10.91	38.7		
01/30/2019	20:48:49	285	4.2	10.92	43.0		
01/30/2019	20:49:49	511	4.3	10.92	47.4		
01/30/2019	20:50:49	495	4.3	10.91	51.7		
01/30/2019	20:51:49	627	4.1	10.91	56.2		
01/30/2019	20:52:49	478	4.4	10.90	60.6		
01/30/2019	20:53:49	461	4.4	10.90	65.0		
01/30/2019	20:54:49	421	4.4	10.95	69.4		
01/30/2019	20:55:49	423	4.4	10.91	73.8		
01/30/2019	20:56:49	202	2.8	10.91	78.2		
01/30/2019	20:56:50	221	2.6	10.91	78.3	End Spacer	
01/30/2019	20:56:51	195	2.3	10.90	78.3	Reset Total, Vol = 80.37 bbl	
01/30/2019	20:57:49	71	0.3	8.84	0.1		
01/30/2019	20:58:49	22	0.0	10.56	0.1		
01/30/2019	20:59:49	15	0.0	11.04	0.1		
01/30/2019	21:00:18	15	0.0	11.03	0.1	Rig to Fix Rotating Head	
01/30/2019	21:00:49	15	0.0	11.02	0.1		
01/30/2019	21:01:49	14	0.0	11.01	0.1		
01/30/2019	21:02:49	15	0.0	11.00	0.1		
01/30/2019	21:03:49	15	0.0	11.02	0.1		
01/30/2019	21:04:49	15	0.0	11.01	0.1		
01/30/2019	21:05:49	15	0.0	10.90	0.1		
01/30/2019	21:05:56	15	0.0	10.89	0.1	Drop Bottom Plug	
01/30/2019	21:06:49	16	0.0	10.88	0.1		
01/30/2019	21:07:49	15	0.0	10.89	0.1		
01/30/2019	21:08:49	82	0.0	11.89	0.2		
01/30/2019	21:09:49	84	0.0	11.93	0.3		
01/30/2019	21:10:49	71	0.0	11.95	0.0		
01/30/2019	21:11:41	596	4.4	12.03	2.8	Start Mixing Lead Slurry	
01/30/2019	21:11:42	635	4.4	12.03	2.9	Wet and Dry Samples Taken	
01/30/2019	21:11:47	650	4.4	12.03	3.3	Sample weighed at 12ppg	
01/30/2019	21:11:49	657	4.4	12.04	3.4		
01/30/2019	21:11:50	661	4.4	12.04	3.5	Good Returns	

Well			Field	Job Start		Customer	Job Number
Castle Pines 19-18HZ			Wattenberg	Jan/30/2019		Anadarko Petroleum	E9LW-00002
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/30/2019	21:13:49	669	5.1	11.99	13.1		
01/30/2019	21:14:49	717	5.1	12.00	18.2		
01/30/2019	21:15:49	624	5.1	12.01	23.3		
01/30/2019	21:16:49	582	5.1	12.00	28.4		
01/30/2019	21:17:49	633	5.1	12.00	33.5		
01/30/2019	21:18:49	567	5.1	12.00	38.6		
01/30/2019	21:19:49	511	5.1	11.99	43.7		
01/30/2019	21:20:49	521	5.1	12.00	48.9		
01/30/2019	21:21:49	478	5.1	12.00	54.0		
01/30/2019	21:22:49	430	5.1	12.00	59.1		
01/30/2019	21:23:49	457	5.1	12.00	64.2		
01/30/2019	21:24:49	449	5.1	12.00	69.3		
01/30/2019	21:25:49	443	5.1	12.01	74.5		
01/30/2019	21:26:49	421	5.1	12.01	79.6		
01/30/2019	21:27:49	441	5.1	12.01	84.7		
01/30/2019	21:28:49	420	5.1	12.01	89.8		
01/30/2019	21:29:49	418	5.1	12.01	95.0		
01/30/2019	21:30:49	387	5.1	12.01	100.1		
01/30/2019	21:31:10	450	5.1	12.00	101.9	Mix Fluid Sample Taken	
01/30/2019	21:31:49	409	5.1	12.00	105.2		
01/30/2019	21:32:49	384	5.1	12.00	110.4		
01/30/2019	21:33:49	421	5.1	12.00	115.5		
01/30/2019	21:34:49	423	5.1	12.00	120.6		
01/30/2019	21:35:49	409	5.1	12.00	125.7		
01/30/2019	21:36:49	421	5.1	12.00	130.9		
01/30/2019	21:37:49	395	5.1	12.00	136.0		
01/30/2019	21:38:49	442	5.1	12.00	141.2		
01/30/2019	21:39:49	413	5.2	12.01	146.3		
01/30/2019	21:40:49	392	5.1	12.01	151.4		
01/30/2019	21:41:49	469	5.1	12.01	156.6		
01/30/2019	21:42:49	417	5.1	12.01	161.7		
01/30/2019	21:43:49	449	5.1	12.00	166.8		
01/30/2019	21:44:49	449	5.1	12.01	172.0		
01/30/2019	21:45:49	395	5.2	12.01	177.1		
01/30/2019	21:46:49	432	5.1	12.01	182.2		
01/30/2019	21:47:49	404	5.1	12.02	187.4		
01/30/2019	21:48:49	410	5.1	12.01	192.5		
01/30/2019	21:49:49	384	5.1	12.01	197.6		
01/30/2019	21:50:49	445	5.1	12.02	202.8		
01/30/2019	21:51:49	406	5.2	12.01	207.9		
01/30/2019	21:52:49	219	3.2	12.01	212.3		
01/30/2019	21:53:49	173	3.2	12.01	215.5		
01/30/2019	21:54:49	173	3.2	11.99	218.7		
01/30/2019	21:55:49	198	3.2	11.99	221.9		
01/30/2019	21:56:49	206	3.2	11.98	225.1		
01/30/2019	21:57:49	107	2.1	11.97	227.9		
01/30/2019	21:58:49	21	0.0	11.96	0.1		
01/30/2019	21:59:49	22	0.0	11.96	0.1		
01/30/2019	22:00:00	22	0.0	11.96	0.1	End Lead Slurry	
01/30/2019	22:00:49	22	0.0	11.96	0.1		
01/30/2019	22:00:53	22	0.0	11.96	0.1	Reset Total, Vol = 232.66 bbl	
01/30/2019	22:01:49	22	0.0	11.96	0.1		
01/30/2019	22:02:49	22	0.0	11.97	0.1		
01/30/2019	22:03:43	290	4.5	13.50	1.6	Start Mixing Tail Slurry	

Well Castle Pines 19-18HZ			Field Wattenberg		Job Start Jan/30/2019		Customer Anadarko Petroleum		Job Number E9LW-00002	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/30/2019	22:03:45	299	4.5	13.49	1.8	Wet Sample Weighed, 13.5ppg				
01/30/2019	22:03:49	291	4.4	13.49	2.1					
01/30/2019	22:04:49	287	4.5	13.50	6.6					
01/30/2019	22:05:49	278	4.5	13.50	11.0					
01/30/2019	22:06:49	279	4.5	13.50	15.5					
01/30/2019	22:07:49	280	4.5	13.50	20.0					
01/30/2019	22:08:49	272	4.5	13.50	24.4					
01/30/2019	22:09:49	284	4.5	13.50	28.9					
01/30/2019	22:11:49	467	4.8	13.53	37.9					
01/30/2019	22:12:49	709	8.2	13.54	45.5					
01/30/2019	22:13:49	709	8.2	13.53	53.7					
01/30/2019	22:14:49	708	8.2	13.51	61.9					
01/30/2019	22:15:49	706	8.2	13.51	70.1					
01/30/2019	22:16:49	726	8.2	13.49	78.3					
01/30/2019	22:17:49	711	8.2	13.48	86.5					
01/30/2019	22:18:49	712	8.2	13.50	94.8					
01/30/2019	22:19:49	691	8.3	13.51	103.0					
01/30/2019	22:20:49	677	8.3	13.52	111.3					
01/30/2019	22:21:49	670	8.3	13.49	119.5					
01/30/2019	22:22:49	680	8.3	13.50	127.8					
01/30/2019	22:23:49	667	8.2	13.50	136.0					
01/30/2019	22:24:49	679	8.2	13.51	144.3					
01/30/2019	22:25:49	689	8.2	13.51	152.5					
01/30/2019	22:26:49	665	8.2	13.52	160.7					
01/30/2019	22:27:49	667	8.2	13.51	169.0					
01/30/2019	22:28:49	677	8.3	13.52	177.2					
01/30/2019	22:29:49	698	8.2	13.52	185.4					
01/30/2019	22:30:49	681	8.2	13.52	193.7					
01/30/2019	22:31:49	669	8.2	13.51	201.9					
01/30/2019	22:32:49	651	8.2	13.51	210.2					
01/30/2019	22:33:49	641	8.2	13.50	218.4					
01/30/2019	22:34:49	659	8.2	13.51	226.7					
01/30/2019	22:35:49	688	8.2	13.52	234.9					
01/30/2019	22:36:49	639	8.2	13.51	243.1					
01/30/2019	22:37:49	661	8.2	13.53	251.4					
01/30/2019	22:38:49	662	8.3	13.53	259.6					
01/30/2019	22:39:49	655	8.3	13.50	267.9					
01/30/2019	22:40:49	643	8.2	13.50	276.1					
01/30/2019	22:41:49	631	8.3	13.51	284.4					
01/30/2019	22:42:49	641	8.3	13.49	292.7					
01/30/2019	22:43:49	655	8.2	13.51	300.9					
01/30/2019	22:44:49	655	8.3	13.52	309.2					
01/30/2019	22:46:49	649	8.2	13.51	325.7					
01/30/2019	22:47:49	643	8.3	13.50	333.9					
01/30/2019	22:48:49	661	8.3	13.52	342.2					
01/30/2019	22:49:49	653	8.3	13.53	350.4					
01/30/2019	22:50:49	664	8.2	13.54	358.7					
01/30/2019	22:51:49	639	8.2	13.52	367.0					
01/30/2019	22:52:49	658	8.3	13.51	375.2					
01/30/2019	22:53:49	650	8.2	13.52	383.5					
01/30/2019	22:54:49	657	8.2	13.51	391.7					
01/30/2019	22:55:49	676	8.3	13.52	400.0					
01/30/2019	22:56:49	636	8.3	13.51	408.2					
01/30/2019	22:57:49	647	8.3	13.50	416.5					

Well			Field	Job Start		Customer	Job Number
Castle Pines 19-18HZ			Wattenberg	Jan/30/2019		Anadarko Petroleum	E9LW-00002
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/30/2019	22:59:49	739	8.2	13.54	433.0		
01/30/2019	23:00:49	266	4.5	13.51	438.6		
01/30/2019	23:01:49	264	4.5	13.52	443.1		
01/30/2019	23:02:49	261	4.5	13.52	447.6		
01/30/2019	23:03:49	122	3.7	13.51	452.1		
01/30/2019	23:03:51	122	2.9	13.51	452.2	End Tail Slurry	
01/30/2019	23:04:32	23	2.3	13.14	453.9	Reset Total, Vol = 453.77 bbl	
01/30/2019	23:04:34	10	1.8	13.01	0.0	Washup Pump and Line	
01/30/2019	23:04:49	18	0.0	12.97	0.1		
01/30/2019	23:05:49	25	0.0	12.75	0.1		
01/30/2019	23:06:49	26	0.0	12.26	0.1		
01/30/2019	23:07:49	26	0.0	9.62	0.1		
01/30/2019	23:08:49	87	1.1	10.08	0.5		
01/30/2019	23:09:49	93	2.6	10.08	2.7		
01/30/2019	23:10:49	76	1.0	8.28	5.0		
01/30/2019	23:11:49	192	4.5	8.77	9.0		
01/30/2019	23:12:49	225	2.3	8.41	11.7		
01/30/2019	23:13:49	136	2.2	8.33	14.0		
01/30/2019	23:14:49	23	0.2	8.36	16.3		
01/30/2019	23:15:49	15	0.0	8.35	16.3		
01/30/2019	23:16:49	14	0.0	8.36	16.3		
01/30/2019	23:17:49	106	4.5	8.35	1.9		
01/30/2019	23:18:01	114	4.5	8.38	2.8	Drop Top Plug	
01/30/2019	23:18:02	105	4.5	8.39	2.9	Start Displacement	
01/30/2019	23:18:49	104	4.5	8.36	6.4		
01/30/2019	23:19:49	292	8.3	8.36	12.4		
01/30/2019	23:21:03	302	8.2	8.36	22.5	Sugar in First 20 bbls	
01/30/2019	23:21:04	298	8.2	8.36	22.7	Biocide Throughout	
01/30/2019	23:21:49	300	8.2	8.36	28.8		
01/30/2019	23:22:49	295	8.2	8.36	37.1		
01/30/2019	23:23:49	304	8.2	8.36	45.3		
01/30/2019	23:24:49	1090	8.1	8.35	53.4		
01/30/2019	23:25:49	1160	8.1	8.35	61.6		
01/30/2019	23:26:49	1254	8.1	8.35	69.7		
01/30/2019	23:27:49	1327	8.2	8.36	77.8		
01/30/2019	23:28:49	1409	8.1	8.35	86.0		
01/30/2019	23:29:49	1488	8.1	8.35	94.1		
01/30/2019	23:30:49	1573	8.1	8.36	102.2		
01/30/2019	23:31:49	1652	8.1	8.36	110.3		
01/30/2019	23:32:49	1755	8.1	8.36	118.4		
01/30/2019	23:33:49	1867	8.1	8.35	126.4		
01/30/2019	23:34:49	1954	8.1	8.35	134.5		
01/30/2019	23:35:49	2049	8.1	8.36	142.6		
01/30/2019	23:36:49	2155	8.0	8.35	150.6		
01/30/2019	23:37:49	2236	8.0	8.35	158.7		
01/30/2019	23:38:49	2329	8.0	8.35	166.7		
01/30/2019	23:39:49	2416	8.0	8.35	174.7		
01/30/2019	23:40:49	2477	8.0	8.35	182.7		
01/30/2019	23:41:49	2501	8.0	8.35	190.7		
01/30/2019	23:42:49	2511	8.0	8.35	198.8		
01/30/2019	23:43:49	2523	8.0	8.35	206.8		
01/30/2019	23:44:49	2537	8.0	8.35	214.8		
01/30/2019	23:45:49	2555	8.0	8.35	222.8		
01/30/2019	23:46:49	2568	8.0	8.35	230.8		

Well			Field	Job Start		Customer	Job Number
Castle Pines 19-18HZ			Wattenberg	Jan/30/2019		Anadarko Petroleum	E9LW-00002
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/30/2019	23:48:49	2629	8.0	8.35	246.8		
01/30/2019	23:49:49	2636	8.0	8.35	254.8		
01/30/2019	23:50:49	2663	8.0	8.35	262.8		
01/30/2019	23:51:49	2688	8.0	8.35	270.8		
01/30/2019	23:52:49	2703	8.0	8.35	278.8		
01/30/2019	23:53:49	2739	8.0	8.35	286.8		
01/30/2019	23:54:49	2766	8.0	8.35	294.8		
01/30/2019	23:56:49	2778	8.0	8.35	310.7		
01/30/2019	23:57:49	2798	8.0	8.35	318.7		
01/30/2019	23:58:49	2822	8.0	8.35	326.7		
01/30/2019	23:59:49	2861	8.0	8.35	334.7		
01/31/2019	00:00:49	2893	8.0	8.36	342.7		
01/31/2019	00:01:49	2913	8.0	8.35	350.7		
01/31/2019	00:02:49	2925	8.0	8.35	358.7		
01/31/2019	00:03:49	2961	8.0	8.36	366.7		
01/31/2019	00:04:49	2984	8.0	8.35	374.6		
01/31/2019	00:05:49	3025	8.0	8.35	382.6		
01/31/2019	00:06:49	3036	8.0	8.35	390.6		
01/31/2019	00:07:49	3053	8.0	8.35	398.5		
01/31/2019	00:08:49	3064	8.0	8.35	406.5		
01/31/2019	00:09:49	2720	6.2	8.35	413.8		
01/31/2019	00:10:04	2695	6.2	8.35	415.3	5 Bbls Spacer to Surface	
01/31/2019	00:10:49	2728	6.2	8.35	420.0		
01/31/2019	00:11:49	2383	4.3	8.35	424.5		
01/31/2019	00:12:49	2416	4.4	8.35	428.9		
01/31/2019	00:13:49	2021	2.2	8.35	431.7		
01/31/2019	00:14:49	2007	2.2	8.35	433.9		
01/31/2019	00:15:49	2428	2.2	8.35	436.0		
01/31/2019	00:16:00	2622	2.2	8.35	436.4	Bump Top Plug 2100-3000 psi	
01/31/2019	00:16:02	2768	2.2	8.35	436.5	End Displacement	
01/31/2019	00:16:05	2803	2.2	8.35	436.6	Reset Total, Vol = 432.2 bbl	
01/31/2019	00:16:44	2943	0.0	8.35	437.0	Start 15 min, 3000 Casing Test	
01/31/2019	00:16:49	3008	0.0	8.35	437.0		
01/31/2019	00:17:49	2957	0.0	8.36	437.0		
01/31/2019	00:18:49	2996	0.0	8.36	437.0		
01/31/2019	00:19:49	3024	0.0	8.36	437.0		
01/31/2019	00:20:49	3039	0.0	8.36	437.0		
01/31/2019	00:21:49	3055	0.0	8.36	437.0		
01/31/2019	00:22:49	3080	0.0	8.36	437.0		
01/31/2019	00:23:49	3098	0.0	8.36	437.0		
01/31/2019	00:24:49	3115	0.0	8.36	437.0		
01/31/2019	00:25:49	3133	0.0	8.36	437.0		
01/31/2019	00:26:49	3151	0.0	8.36	437.0		
01/31/2019	00:27:49	3168	0.0	8.36	437.0		
01/31/2019	00:28:49	3184	0.0	8.36	437.0		
01/31/2019	00:29:49	3201	0.0	8.36	437.0		
01/31/2019	00:30:49	3218	0.0	8.36	437.0		
01/31/2019	00:31:49	3842	2.1	8.36	437.7		
01/31/2019	00:32:39	2639	2.1	8.36	439.5	Tool Shift, 4800 psi	
01/31/2019	00:32:49	2276	2.1	8.36	439.8		
01/31/2019	00:32:59	2213	2.1	8.36	440.2	Pump 5 Bbl Wet Shoe	
01/31/2019	00:33:49	2061	2.1	8.36	441.9		
01/31/2019	00:34:49	1926	1.9	8.36	444.0		
01/31/2019	00:35:44	179	0.0	8.36	444.1	Floats Hold, 3 bbls Back	



Well Castle Pines 19-18HZ			Field Wattenberg		Job Start Jan/30/2019		Customer Anadarko Petroleum		Job Number E9LW-00002	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL		Message		
01/31/2019	00:36:48	13		0.0	8.36	444.1		End Job		

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.8	N2	Mud	Maximum Rate 8.3	Total Slurry 685.0	Mud 0.0	Spacer 80.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 7413	Final 16	Average 1103	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 685.0 bbl		Displacement 432.2 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative John Truett			Schlumberger Supervisor Ryan Drilling/Sheldon Bell			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	