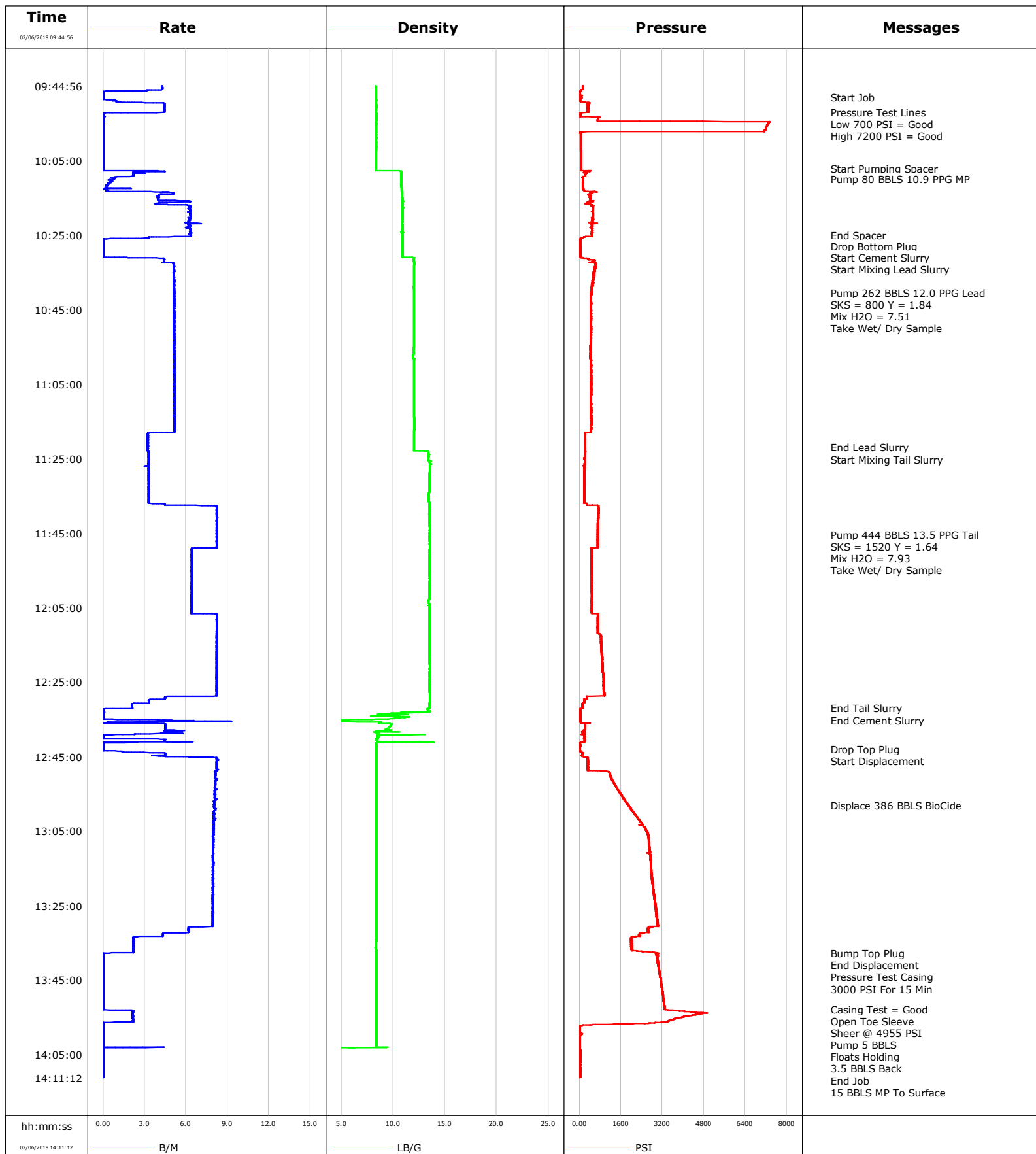


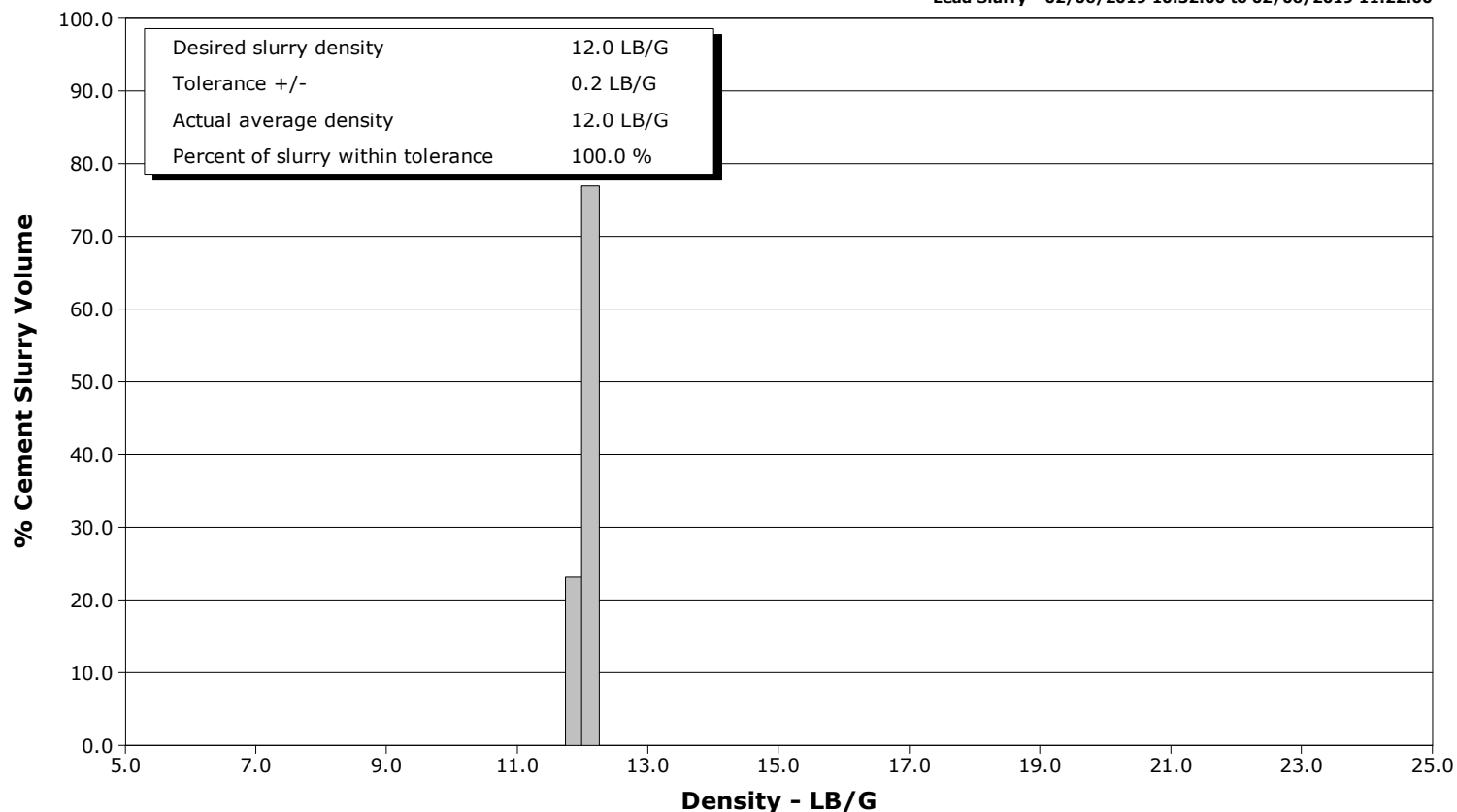
Well	Castle Pines	Client	Anadarko
Field	Wattenberg	SIR No.	2896244
Engineer	Conley Jensen/ Sheldon Bell	Job Type	5.5" Monobore
Country	United States	Job Date	02-06-2019



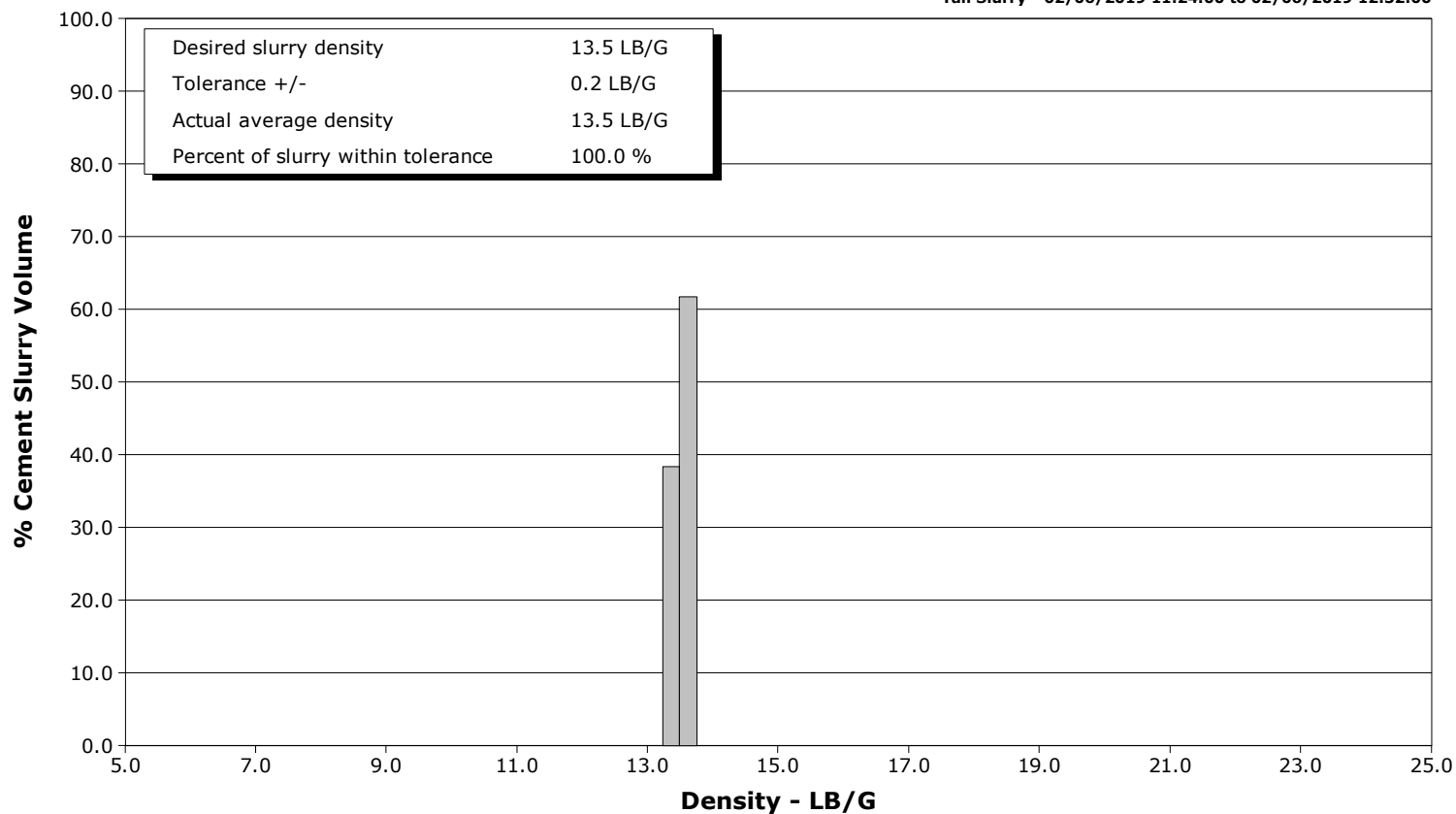
Well Castle Pines
Field Wattenberg
Engineer Conley Jensen/ Sheldon Bell
Country United States

Client Anadarko
SIR No. 2896244
Job Type 5.5" Monobore
Job Date 02-06-2019

Lead Slurry - 02/06/2019 10:32:00 to 02/06/2019 11:22:00



Tail Slurry - 02/06/2019 11:24:00 to 02/06/2019 12:32:00



Cementing Service Report

				Customer Anadarko			Job Number 2896244										
Well Castle Pines 19-7HZ			Location (legal)			Schlumberger Location CWY			Job Start Feb/06/2019								
Field Wattenberg		Formation Name/Type Shale			Deviation deg		Bit Size 8.8 in		Well MD 17435.0 ft		Well TVD 7269.0 ft						
County weld		State/Province Colorado			BHP psi		BHST 230 degF		BHCT 230 degF		Pore Press. Gradient lb/gal						
Well Master 0631786692		API/UWI 05123477200000															
Rig Name Precision 564		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		1860.0		9.6		36.0		J55		8RD			
						17420.0		5.5		20.0		P110		8RD			
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 Double Cement head		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval			
Service Instructions Perform 5.5" Monobore Per Proposal Design						ft		ft						ft			
						ft		ft						Diameter			
						ft		ft						in			
		Treat Down Casing		Displacement 386.0 bbl		Packer Type		Packer Depth ft									
		Tubing Vol. bbl		Casing Vol. 386.0 bbl		Annular Vol. 789.0 bbl		Openhole Vol. 1181.0 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 17420.0 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 Feb/06/2019 05:00		Arrived on Location Feb/06/2019 05:00		Leave Location Feb/06/2019 15:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 17417.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
02/06/2019	09:44:56	120	4.3	8.35	0.0	Started Acquisition											
02/06/2019	09:46:26	7	0.0	8.35	0.0												
02/06/2019	09:47:56	35	0.0	8.35	0.0												
02/06/2019	09:48:00	32	0.0	8.35	0.0	Start Job											
02/06/2019	09:49:26	337	2.3	8.35	0.7												
02/06/2019	09:50:56	339	4.4	8.35	7.2												
02/06/2019	09:52:00	338	4.4	8.35	12.0	Pressure Test Lines											
02/06/2019	09:52:26	28	0.0	8.36	12.7												
02/06/2019	09:53:00	27	0.0	8.35	12.7	Low 700 PSI = Good											
02/06/2019	09:53:56	709	0.0	8.35	12.7												
02/06/2019	09:55:00	7285	0.0	8.35	12.7	High 7200 PSI = Good											
02/06/2019	09:55:26	7248	0.0	8.35	12.7												
02/06/2019	09:56:56	7139	0.0	8.35	12.7												
02/06/2019	09:58:26	43	0.0	8.35	12.7												
02/06/2019	09:59:56	49	0.0	8.35	0.0												
02/06/2019	10:01:26	54	0.0	8.35	0.0												
02/06/2019	10:02:56	58	0.0	8.35	0.0												
02/06/2019	10:04:26	62	0.0	8.35	0.0												
02/06/2019	10:05:56	66	0.0	8.35	0.0												
02/06/2019	10:07:00	67	0.0	8.35	0.0	Start Pumping Spacer											
02/06/2019	10:07:26	68	0.0	8.35	0.0												

Well			Field	Job Start		Customer	Job Number
Castle Pines 19-7HZ			Wattenberg	Feb/06/2019		Anadarko	2896244
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/06/2019	10:10:00	149	0.8	10.79	4.6	Pump 80 BBLS 10.9 PPG MP	
02/06/2019	10:10:26	138	0.7	10.79	4.9		
02/06/2019	10:11:56	119	0.3	10.79	5.5		
02/06/2019	10:13:26	526	4.8	10.85	6.4		
02/06/2019	10:14:56	417	4.0	10.88	13.0		
02/06/2019	10:16:26	336	4.0	10.92	19.9		
02/06/2019	10:17:56	512	6.3	10.93	28.3		
02/06/2019	10:19:26	526	6.3	10.91	37.7		
02/06/2019	10:20:56	515	6.3	10.89	47.1		
02/06/2019	10:22:26	508	6.3	10.90	56.5		
02/06/2019	10:23:56	500	6.3	10.89	65.9		
02/06/2019	10:25:00	477	6.3	10.91	72.6	End Spacer	
02/06/2019	10:25:26	294	6.0	10.91	75.4		
02/06/2019	10:26:56	23	0.0	10.91	0.0		
02/06/2019	10:28:00	23	0.0	10.90	0.0	Drop Bottom Plug	
02/06/2019	10:28:26	23	0.0	10.90	0.0		
02/06/2019	10:29:56	22	0.0	10.90	0.0		
02/06/2019	10:31:00	95	1.5	11.64	0.0	Start Cement Slurry	
02/06/2019	10:31:26	338	4.4	11.95	1.5		
02/06/2019	10:32:56	601	5.1	12.04	8.5		
02/06/2019	10:34:26	605	5.1	12.01	16.1		
02/06/2019	10:35:56	560	5.1	12.01	23.8		
02/06/2019	10:37:26	507	5.1	11.99	31.5		
02/06/2019	10:38:56	485	5.1	11.98	39.2		
02/06/2019	10:40:21	474	5.1	12.01	46.5	Pump 262 BBLS 12.0 PPG Lead	
02/06/2019	10:40:26	465	5.1	12.01	46.9		
02/06/2019	10:40:32	472	5.1	12.01	47.4	SKS = 800 Y = 1.84	
02/06/2019	10:40:42	474	5.1	12.01	48.3	Mix H2O = 7.51	
02/06/2019	10:40:49	464	5.1	12.01	48.9	Take Wet/ Dry Sample	
02/06/2019	10:41:56	438	5.1	11.99	54.6		
02/06/2019	10:43:26	457	5.1	12.01	62.3		
02/06/2019	10:44:56	453	5.1	12.01	70.0		
02/06/2019	10:46:26	434	5.1	12.01	77.7		
02/06/2019	10:47:56	435	5.1	12.01	85.4		
02/06/2019	10:49:26	459	5.1	12.01	93.1		
02/06/2019	10:50:56	455	5.1	12.02	100.8		
02/06/2019	10:52:26	448	5.1	12.02	108.5		
02/06/2019	10:53:56	458	5.1	12.01	116.2		
02/06/2019	10:55:26	412	5.1	11.98	123.9		
02/06/2019	10:56:56	445	5.2	11.95	131.6		
02/06/2019	10:58:26	460	5.1	12.02	139.3		
02/06/2019	10:59:56	456	5.2	12.00	147.1		
02/06/2019	11:01:26	454	5.1	12.00	154.8		
02/06/2019	11:02:56	462	5.2	12.00	162.5		
02/06/2019	11:04:26	466	5.1	12.01	170.2		
02/06/2019	11:05:56	450	5.2	12.00	177.9		
02/06/2019	11:07:26	448	5.1	12.01	185.6		
02/06/2019	11:08:56	449	5.2	11.99	193.4		
02/06/2019	11:10:26	463	5.1	12.00	201.1		
02/06/2019	11:11:56	467	5.1	12.01	208.8		
02/06/2019	11:13:26	447	5.1	12.02	216.5		
02/06/2019	11:14:56	448	5.1	12.04	224.2		
02/06/2019	11:16:26	441	5.1	12.05	232.0		
02/06/2019	11:17:56	433	5.1	12.03	239.7		

Well			Field	Job Start		Customer	Job Number
Castle Pines 19-7HZ			Wattenberg	Feb/06/2019		Anadarko	2896244
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/06/2019	11:20:56	209	3.2	12.01	249.6		
02/06/2019	11:22:00	205	3.2	12.01	253.1	End Lead Slurry	
02/06/2019	11:22:26	207	3.2	12.01	254.5		
02/06/2019	11:23:56	205	3.3	13.45	3.3		
02/06/2019	11:24:00	206	3.3	13.46	3.5	Start Mixing Tail Slurry	
02/06/2019	11:25:26	197	3.3	13.39	8.2		
02/06/2019	11:26:56	150	3.2	13.56	13.1		
02/06/2019	11:28:26	187	3.3	13.52	18.0		
02/06/2019	11:29:56	181	3.3	13.51	22.9		
02/06/2019	11:31:26	186	3.3	13.50	27.9		
02/06/2019	11:32:56	188	3.3	13.50	32.8		
02/06/2019	11:34:26	181	3.3	13.45	37.8		
02/06/2019	11:35:56	181	3.3	13.46	42.7		
02/06/2019	11:37:26	287	4.5	13.49	48.0		
02/06/2019	11:38:56	727	8.2	13.52	59.7		
02/06/2019	11:40:26	731	8.2	13.48	72.1		
02/06/2019	11:41:56	726	8.2	13.53	84.4		
02/06/2019	11:43:26	721	8.2	13.52	96.8		
02/06/2019	11:44:56	712	8.2	13.51	109.1		
02/06/2019	11:45:21	704	8.2	13.52	112.5	Pump 444 BBLs 13.5 PPG Tail	
02/06/2019	11:45:39	716	8.2	13.52	115.0	Mix H2O = 7.93	
02/06/2019	11:45:47	711	8.2	13.51	116.1	Take Wet/ Dry Sample	
02/06/2019	11:46:26	715	8.2	13.51	121.4		
02/06/2019	11:47:56	691	8.2	13.51	133.8		
02/06/2019	11:49:26	478	6.4	13.52	145.3		
02/06/2019	11:50:56	482	6.4	13.51	154.9		
02/06/2019	11:52:26	475	6.4	13.50	164.5		
02/06/2019	11:53:56	480	6.4	13.51	174.1		
02/06/2019	11:55:26	475	6.4	13.52	183.7		
02/06/2019	11:56:56	479	6.4	13.55	193.3		
02/06/2019	11:58:26	480	6.4	13.52	202.9		
02/06/2019	11:59:56	480	6.4	13.50	212.5		
02/06/2019	12:01:26	487	6.4	13.49	222.1		
02/06/2019	12:02:56	474	6.4	13.43	231.7		
02/06/2019	12:04:26	489	6.4	13.46	241.3		
02/06/2019	12:05:56	483	6.4	13.49	250.9		
02/06/2019	12:07:26	697	8.2	13.50	261.9		
02/06/2019	12:08:56	722	8.2	13.50	274.3		
02/06/2019	12:10:26	708	8.2	13.49	286.6		
02/06/2019	12:11:56	723	8.2	13.48	298.9		
02/06/2019	12:13:26	837	8.2	13.49	311.3		
02/06/2019	12:14:56	860	8.2	13.49	323.6		
02/06/2019	12:16:26	855	8.2	13.49	335.9		
02/06/2019	12:17:56	870	8.2	13.49	348.3		
02/06/2019	12:19:26	875	8.2	13.52	360.6		
02/06/2019	12:20:56	890	8.2	13.52	372.9		
02/06/2019	12:22:26	923	8.2	13.51	385.2		
02/06/2019	12:23:56	931	8.2	13.52	397.5		
02/06/2019	12:25:26	938	8.2	13.52	409.9		
02/06/2019	12:26:56	920	8.2	13.51	422.2		
02/06/2019	12:28:26	960	8.2	13.52	434.5		
02/06/2019	12:29:56	181	3.3	13.53	442.3		
02/06/2019	12:31:26	114	2.1	13.52	446.4		
02/06/2019	12:32:00	146	2.1	13.51	447.6	End Tail Slurry	

Well			Field	Job Start		Customer		Job Number	
Castle Pines 19-7HZ			Wattenberg		Feb/06/2019		Anadarko		2896244
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/06/2019	12:34:26	26	0.0	11.58	448.0				
02/06/2019	12:35:56	42	0.2	8.69	0.1				
02/06/2019	12:37:26	209	4.5	9.50	6.3				
02/06/2019	12:38:56	155	2.5	8.46	13.2				
02/06/2019	12:40:26	198	4.5	8.33	14.3				
02/06/2019	12:41:56	21	0.0	8.35	17.7				
02/06/2019	12:43:00	17	0.0	8.35	17.7	Drop Top Plug			
02/06/2019	12:43:26	19	0.3	8.36	17.7				
02/06/2019	12:44:56	118	4.5	8.36	4.9				
02/06/2019	12:46:26	334	8.2	8.38	16.5				
02/06/2019	12:47:56	331	8.2	8.36	28.8				
02/06/2019	12:49:26	1162	8.1	8.36	41.1				
02/06/2019	12:50:56	1234	8.1	8.36	53.2				
02/06/2019	12:52:26	1366	8.1	8.36	65.4				
02/06/2019	12:53:56	1483	8.2	8.36	77.6				
02/06/2019	12:55:26	1631	8.1	8.36	89.7				
02/06/2019	12:56:56	1776	8.1	8.36	101.9				
02/06/2019	12:58:07	1889	8.0	8.35	111.4	Displace 386 BBLs BioCide			
02/06/2019	12:58:26	1930	8.0	8.35	113.9				
02/06/2019	12:59:56	2089	8.0	8.36	126.0				
02/06/2019	13:01:26	2242	8.0	8.35	138.0				
02/06/2019	13:02:56	2408	8.0	8.35	150.1				
02/06/2019	13:04:26	2541	8.0	8.36	162.0				
02/06/2019	13:05:56	2663	8.0	8.35	174.0				
02/06/2019	13:07:26	2673	8.0	8.35	185.9				
02/06/2019	13:08:56	2693	8.0	8.35	197.9				
02/06/2019	13:10:26	2726	8.0	8.35	209.8				
02/06/2019	13:11:56	2742	7.9	8.35	221.7				
02/06/2019	13:13:26	2750	8.0	8.35	233.6				
02/06/2019	13:16:26	2777	7.9	8.35	257.5				
02/06/2019	13:17:56	2790	8.0	8.35	269.4				
02/06/2019	13:19:26	2819	7.9	8.35	281.3				
02/06/2019	13:20:56	2860	7.9	8.35	293.2				
02/06/2019	13:22:26	2876	7.9	8.35	305.1				
02/06/2019	13:23:56	2911	7.9	8.35	317.0				
02/06/2019	13:25:26	2949	7.9	8.35	328.9				
02/06/2019	13:26:56	2956	8.0	8.36	340.8				
02/06/2019	13:28:26	2988	7.9	8.35	352.7				
02/06/2019	13:29:56	3015	7.9	8.35	364.6				
02/06/2019	13:31:26	2656	6.2	8.35	375.3				
02/06/2019	13:32:56	2336	4.3	8.35	383.4				
02/06/2019	13:34:26	2021	2.2	8.40	387.5				
02/06/2019	13:35:56	2031	2.2	8.33	390.8				
02/06/2019	13:37:26	2646	2.2	8.35	394.1				
02/06/2019	13:37:48	2942	0.0	8.35	394.7	Bump Top Plug			
02/06/2019	13:37:54	3051	0.0	8.36	394.7	Pressure Test Casing			
02/06/2019	13:38:56	2989	0.0	8.35	394.7				
02/06/2019	13:40:26	3033	0.0	8.36	394.7				
02/06/2019	13:41:56	3058	0.0	8.36	394.7				
02/06/2019	13:43:26	3101	0.0	8.36	394.7				
02/06/2019	13:44:56	3133	0.0	8.36	394.7				
02/06/2019	13:46:26	3165	0.0	8.36	394.7				
02/06/2019	13:47:56	3196	0.0	8.36	394.7				
02/06/2019	13:49:26	3226	0.0	8.36	394.7				

Well			Field		Job Start	Customer		Job Number
Castle Pines 19-7HZ			Wattenberg		Feb/06/2019	Anadarko		2896244
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/06/2019	13:52:26	3284	0.0	8.36	394.7			
02/06/2019	13:52:45	3290	0.0	8.36	394.7	Casing Test = Good		
02/06/2019	13:53:03	3407	1.7	8.36	394.8	Open Toe Sleeve		
02/06/2019	13:53:55	4743	2.1	8.36	396.6	Sheer @ 4955 PSI		
02/06/2019	13:53:56	4775	2.1	8.36	396.6			
02/06/2019	13:54:00	4698	2.1	8.36	396.8	Pump 5 BBLS		
02/06/2019	13:55:26	3698	2.2	8.36	399.9			
02/06/2019	13:56:56	1136	0.0	8.36	401.8			
02/06/2019	13:57:04	276	0.0	8.36	401.8	Floats Holding		
02/06/2019	13:57:05	166	0.0	8.36	401.8	3.5 BBLS Back		
02/06/2019	13:57:31	5	0.0	8.36	401.8	End Job		
02/06/2019	13:58:26	9	0.0	8.36	401.8			
02/06/2019	13:59:56	5	0.0	8.36	401.8			
02/06/2019	14:01:26	2	0.0	8.36	401.8			
02/06/2019	14:02:56	3	0.0	8.36	401.8			
02/06/2019	14:04:26	22	0.0	0.06	402.3			
02/06/2019	14:05:56	22	0.0	0.09	402.3			
02/06/2019	14:07:26	19	0.0	0.07	402.3			
02/06/2019	14:08:56	22	0.0	1.52	402.3			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.9	N2	Mud	Maximum Rate 9.3	Total Slurry 708.0	Mud 0.0	Spacer 80.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 7351	Final 21	Average 1031	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 706.0 bbl		Displacement 386.0 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 James Adkins			Schlumberger Supervisor Conley Jensen/ Sheldon Bell			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
						-	-		



Service Order #:	
Date:	Feb/06/2019
Operating Time (hh:mm):	00:00
Client Rep:	James Adkins
Schlumberger Engineer:	Conley Jensen/ Sheldon Bell
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: