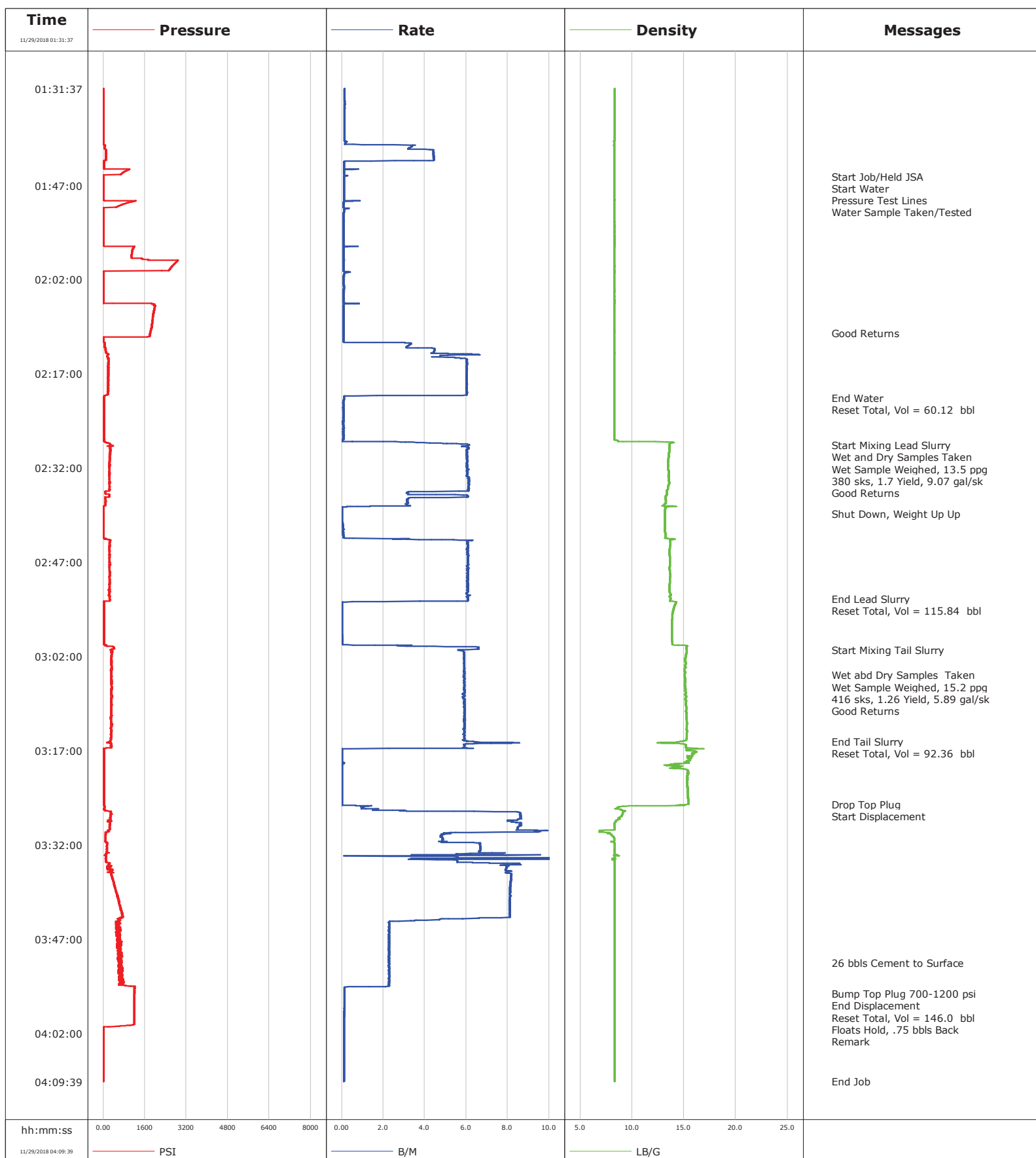


Well Herren 1H-33H-H36
Field Wattenberg
Engineer Ryan Drilling/Colby Dravis
Country United States

Client Crestone Peak Resources
SIR No. E5N2-00217
Job Type 9 5/8 Surface
Job Date 11-29-2018



				Customer Crestone Peak Resources			Job Number ESN2-00217	
Well Herren 1H-33H-H36			Location (legal) CWY		Schlumberger Location CWY		Job Start Nov/29/2018	
Field Wattenberg		Formation Name/Type		Deviation 0 deg	Bit Size 13.5 in	Well MD 1974.0 ft		Well TVD 1974.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 104 degF	BHCT 80 degF	Pore Press. Gradient lb/gal	
Well Master Pending		API/UWI						
Rig Name Ensign 153	Drilled For Oil & Gas	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development	1959.0	9.6	40.0	j55	Itc	
			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
Service Line Cementing	Job Type 9 5/8 Surface							
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection Single 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 146.0 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 700 psi			Shoe Type Guide			Squeeze Type		
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1959.0 ft			Tool Type		
No. Centralizers	Top Plugs 1	Bottom Plugs	Stage Tool Type			Tool Depth ft		
Cement Head Type Single			Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For Nov/28/2018 21:00	Arrived on Location Nov/28/2018 21:00	Leave Location Nov/29/2018 05:00	Collar Type Float			Tail Pipe Depth ft		
			Collar Depth 194.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/29/2018	01:31:37	9	0.1	8.34	0.0	Stopped Acquisition		
11/29/2018	01:32:37	10	0.1	8.35	0.0			
11/29/2018	01:33:37	9	0.1	8.35	0.0			
11/29/2018	01:34:37	9	0.1	8.34	0.0			
11/29/2018	01:35:37	9	0.1	8.34	0.0			
11/29/2018	01:36:37	6	0.1	8.33	0.0			
11/29/2018	01:37:37	6	0.1	8.33	0.1			
11/29/2018	01:38:37	6	0.1	8.32	0.1			
11/29/2018	01:39:37	6	0.1	8.32	0.2			
11/29/2018	01:40:37	60	3.4	8.25	0.5			
11/29/2018	01:41:37	112	4.4	8.30	4.2			
11/29/2018	01:42:37	98	4.4	8.30	8.6			
11/29/2018	01:43:37	25	0.1	8.30	10.9			
11/29/2018	01:44:37	940	0.1	8.30	11.0			
11/29/2018	01:45:37	12	0.1	8.30	11.2			
11/29/2018	01:45:38	12	0.1	8.30	11.2	Start Job/Held JSA		
11/29/2018	01:45:39	13	0.1	8.30	11.2	Start Water		
11/29/2018	01:46:37	15	0.1	8.30	11.3			
11/29/2018	01:47:37	14	0.1	8.30	11.4			
11/29/2018	01:48:37	15	0.1	8.30	11.5			
11/29/2018	01:49:37	1124	0.1	8.30	11.6			

Well			Field	Job Start		Customer		Job Number	
Herren 1H-33H-H36			Wattenberg		Nov/29/2018		Crestone Peak Resources		E5N2-00217
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/29/2018	01:51:37	15	0.1	8.30	11.8				
11/29/2018	01:52:37	14	0.1	8.30	11.9				
11/29/2018	01:53:37	15	0.1	8.30	12.0				
11/29/2018	01:54:37	14	0.1	8.30	12.1				
11/29/2018	01:55:37	14	0.1	8.30	12.2				
11/29/2018	01:56:37	14	0.1	8.30	12.2				
11/29/2018	01:57:37	1108	0.1	8.30	12.4				
11/29/2018	01:58:37	1112	0.1	8.30	12.4				
11/29/2018	01:59:37	2714	0.1	8.30	12.5				
11/29/2018	02:00:37	2257	0.1	8.30	12.6				
11/29/2018	02:01:37	12	0.1	8.30	12.8				
11/29/2018	02:02:37	13	0.1	8.30	12.8				
11/29/2018	02:03:37	12	0.1	8.30	12.9				
11/29/2018	02:04:37	13	0.1	8.30	13.0				
11/29/2018	02:05:37	13	0.1	8.30	13.1				
11/29/2018	02:06:37	1968	0.1	8.30	13.3				
11/29/2018	02:07:37	1924	0.1	8.30	13.3				
11/29/2018	02:08:37	1891	0.1	8.30	13.4				
11/29/2018	02:09:37	1861	0.1	8.30	13.5				
11/29/2018	02:10:34	1803	0.1	8.30	13.6	Good Returns			
11/29/2018	02:10:37	1800	0.1	8.30	13.6				
11/29/2018	02:11:37	14	0.1	8.30	13.7				
11/29/2018	02:12:37	54	3.2	8.29	15.6				
11/29/2018	02:13:37	103	4.4	8.29	19.7				
11/29/2018	02:14:37	182	6.0	8.29	24.9				
11/29/2018	02:15:37	201	6.0	8.29	31.0				
11/29/2018	02:16:37	201	6.0	8.29	37.0				
11/29/2018	02:17:37	197	6.0	8.29	43.0				
11/29/2018	02:18:37	188	6.0	8.29	49.0				
11/29/2018	02:19:37	186	6.0	8.29	55.0				
11/29/2018	02:20:37	39	0.1	8.29	60.2				
11/29/2018	02:20:53	26	0.1	8.29	0.0	End Water			
11/29/2018	02:20:54	26	0.1	8.29	0.0	Reset Total, Vol = 60.12 bbl			
11/29/2018	02:21:37	21	0.1	8.29	0.1				
11/29/2018	02:22:37	21	0.1	8.29	0.2				
11/29/2018	02:23:37	21	0.1	8.29	0.3				
11/29/2018	02:24:37	20	0.0	8.30	0.3				
11/29/2018	02:25:37	20	0.1	8.29	0.4				
11/29/2018	02:26:37	20	0.1	8.29	0.5				
11/29/2018	02:27:37	40	0.0	8.55	0.6				
11/29/2018	02:28:21	274	6.1	13.58	3.1	Start Mixing Lead Slurry			
11/29/2018	02:28:23	264	6.1	13.58	3.3	Wet and Dry Samples Taken			
11/29/2018	02:28:24	270	6.1	13.58	3.4	Good Returns			
11/29/2018	02:28:37	267	6.0	13.57	4.7				
11/29/2018	02:29:37	268	6.0	13.56	10.8				
11/29/2018	02:30:37	246	6.0	13.50	16.8				
11/29/2018	02:31:37	239	6.1	13.49	22.8				
11/29/2018	02:32:37	232	6.0	13.55	28.9				
11/29/2018	02:33:37	234	6.1	13.54	34.9				
11/29/2018	02:34:37	240	6.1	13.55	41.1				
11/29/2018	02:35:37	233	6.1	13.36	47.2				
11/29/2018	02:36:37	213	6.1	13.24	51.7				
11/29/2018	02:37:37	87	3.2	13.23	55.1				
11/29/2018	02:38:37	14	0.0	13.18	56.6				

Well			Field	Job Start		Customer	Job Number	
Herren 1H-33H-H36			Wattenberg		Nov/29/2018		Crestone Peak Resources	E5N2-00217
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/29/2018	02:39:37	14	0.0	13.15	56.6			
11/29/2018	02:40:37	14	0.0	13.16	56.6			
11/29/2018	02:41:37	15	0.1	13.16	56.7			
11/29/2018	02:42:37	15	0.1	13.19	56.7			
11/29/2018	02:43:37	251	6.1	13.67	58.6			
11/29/2018	02:44:37	245	6.1	13.63	64.7			
11/29/2018	02:45:37	244	6.1	13.61	70.7			
11/29/2018	02:46:37	244	6.1	13.64	76.8			
11/29/2018	02:47:37	235	6.0	13.62	82.9			
11/29/2018	02:48:37	265	6.1	13.64	89.0			
11/29/2018	02:49:37	248	6.1	13.63	95.0			
11/29/2018	02:50:37	245	6.1	13.59	101.1			
11/29/2018	02:51:37	239	6.1	13.60	107.2			
11/29/2018	02:52:37	241	6.1	13.65	113.2			
11/29/2018	02:52:50	264	6.1	13.72	114.6	End Lead Slurry		
11/29/2018	02:53:03	237	6.1	13.67	115.9	Reset Total, Vol = 115.84 bbl		
11/29/2018	02:53:37	22	0.0	14.17	117.0			
11/29/2018	02:54:37	20	0.0	13.97	117.0			
11/29/2018	02:55:37	21	0.0	13.87	117.0			
11/29/2018	02:56:37	21	0.0	13.84	117.0			
11/29/2018	02:57:37	21	0.0	13.83	117.0			
11/29/2018	02:58:37	22	0.0	13.84	117.0			
11/29/2018	02:59:37	21	0.0	13.85	117.1			
11/29/2018	03:00:37	418	6.6	15.24	1.6			
11/29/2018	03:00:57	283	5.6	15.25	3.7	Start Mixing Tail Slurry		
11/29/2018	03:01:37	334	5.9	15.21	7.6			
11/29/2018	03:02:37	320	5.9	15.13	13.5			
11/29/2018	03:03:37	326	5.9	15.12	19.4			
11/29/2018	03:04:37	324	5.9	15.10	25.3			
11/29/2018	03:04:59	308	5.9	15.08	27.4	Wet abd Dry Samples Taken		
11/29/2018	03:05:00	318	5.9	15.08	27.5	Wet Sample Weighed, 15.2 ppg		
11/29/2018	03:05:37	326	5.9	15.11	31.2			
11/29/2018	03:06:37	328	5.9	15.12	37.1			
11/29/2018	03:07:37	316	5.9	15.17	43.0			
11/29/2018	03:08:37	316	5.9	15.16	48.9			
11/29/2018	03:09:37	333	5.9	15.16	54.8			
11/29/2018	03:10:37	314	5.9	15.20	60.7			
11/29/2018	03:11:37	331	5.9	15.24	66.6			
11/29/2018	03:12:37	318	5.9	15.30	72.5			
11/29/2018	03:13:37	297	5.9	15.24	78.4			
11/29/2018	03:14:37	296	5.9	15.26	84.3			
11/29/2018	03:15:31	270	6.1	14.76	89.6	End Tail Slurry		
11/29/2018	03:15:37	207	6.5	14.30	90.3			
11/29/2018	03:15:41	257	7.3	12.80	90.7	Reset Total, Vol = 92.36 bbl		
11/29/2018	03:16:37	14	4.8	16.15	96.6			
11/29/2018	03:17:37	23	0.0	15.88	0.0			
11/29/2018	03:18:37	23	0.0	15.24	0.0			
11/29/2018	03:19:37	25	0.0	14.09	0.0			
11/29/2018	03:20:37	27	0.0	15.29	0.0			
11/29/2018	03:21:37	27	0.0	15.33	0.0			
11/29/2018	03:22:37	28	0.0	15.33	0.0			
11/29/2018	03:23:37	29	0.0	15.36	0.0			
11/29/2018	03:24:37	30	0.0	15.39	0.0			
11/29/2018	03:25:33	30	0.0	15.43	0.0	Drop Top Plug		

Well			Field		Job Start		Customer		Job Number	
Herren 1H-33H-H36			Wattenberg		Nov/29/2018		Crestone Peak Resources		E5N2-00217	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/29/2018	03:25:37	31	0.0	14.63	0.0					
11/29/2018	03:26:37	207	4.1	9.35	1.4					
11/29/2018	03:27:37	269	8.6	8.79	9.8					
11/29/2018	03:28:37	251	8.6	8.30	18.2					
11/29/2018	03:29:37	243	8.4	8.20	26.7					
11/29/2018	03:30:37	90	4.8	8.13	33.3					
11/29/2018	03:31:37	146	6.3	8.29	38.2					
11/29/2018	03:32:37	145	6.7	8.31	44.9					
11/29/2018	03:33:37	117	7.9	8.32	51.5					
11/29/2018	03:34:37	108	5.6	8.31	56.9					
11/29/2018	03:35:37	205	7.9	8.31	64.5					
11/29/2018	03:36:37	320	8.1	8.31	72.5					
11/29/2018	03:37:37	368	8.2	8.31	80.6					
11/29/2018	03:38:37	435	8.1	8.31	88.7					
11/29/2018	03:39:37	525	8.1	8.31	96.9					
11/29/2018	03:40:37	585	8.1	8.31	105.0					
11/29/2018	03:41:37	630	8.1	8.31	113.1					
11/29/2018	03:42:37	705	8.1	8.31	121.2					
11/29/2018	03:43:37	707	6.6	8.31	129.2					
11/29/2018	03:44:37	611	2.3	8.31	132.7					
11/29/2018	03:45:37	678	2.3	8.31	135.0					
11/29/2018	03:46:37	539	2.3	8.31	137.2					
11/29/2018	03:47:37	546	2.3	8.31	139.5					
11/29/2018	03:48:37	691	2.3	8.31	141.8					
11/29/2018	03:49:37	607	2.3	8.31	144.1					
11/29/2018	03:50:37	580	2.3	8.31	146.3					
11/29/2018	03:50:44	713	2.3	8.31	146.6	26 bbls Cement to Surface				
11/29/2018	03:51:37	762	2.3	8.31	148.6					
11/29/2018	03:52:37	651	2.3	8.31	150.9					
11/29/2018	03:53:37	699	2.3	8.31	153.2					
11/29/2018	03:54:37	1199	0.2	8.31	155.3					
11/29/2018	03:55:37	1204	0.1	8.31	155.4					
11/29/2018	03:55:41	1205	0.1	8.31	155.4	Bump Top Plug 700-1200 psi				
11/29/2018	03:55:42	1204	0.1	8.31	155.4	End Displacement				
11/29/2018	03:55:43	1204	0.1	8.31	155.4	Reset Total, Vol = 146.0 bbl				
11/29/2018	03:55:45	1204	0.1	8.31	155.4	Floats Hold, .75 bbls Back				
11/29/2018	03:56:37	1204	0.1	8.31	155.5					
11/29/2018	03:57:37	1204	0.1	8.31	155.7					
11/29/2018	03:58:37	1202	0.1	8.31	155.8					
11/29/2018	03:59:37	1197	0.1	8.31	155.9					
11/29/2018	04:00:37	1156	0.1	8.31	156.0					
11/29/2018	04:01:03	14	0.1	8.32	156.1	Remark				
11/29/2018	04:01:37	16	0.1	8.32	156.1					
11/29/2018	04:02:37	16	0.1	8.32	156.2					
11/29/2018	04:03:37	16	0.1	8.32	156.3					
11/29/2018	04:04:37	16	0.1	8.32	156.5					
11/29/2018	04:05:37	15	0.1	8.32	156.6					
11/29/2018	04:06:37	15	0.1	8.32	156.7					
11/29/2018	04:07:37	15	0.1	8.32	156.8					
11/29/2018	04:08:37	15	0.1	8.32	156.9					

Well Herren 1H-33H-H36	Field Wattenberg	Job Start Nov/29/2018	Customer Crestone Peak Resources	Job Number E5N2-00217
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 3.0	N2	Mud	Maximum Rate 10.6		Total Slurry 208.0	Mud 0.0	Spacer 60.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2889	Final 14	Average 326	Bump Plug to 1200	Breakdown	Type		Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 208.0 bbl		Displacement 146.0 bbl		Mix Water Temp 70 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 26.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative				Schlumberger Supervisor Ryan Drilling/Colby Dravis				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-