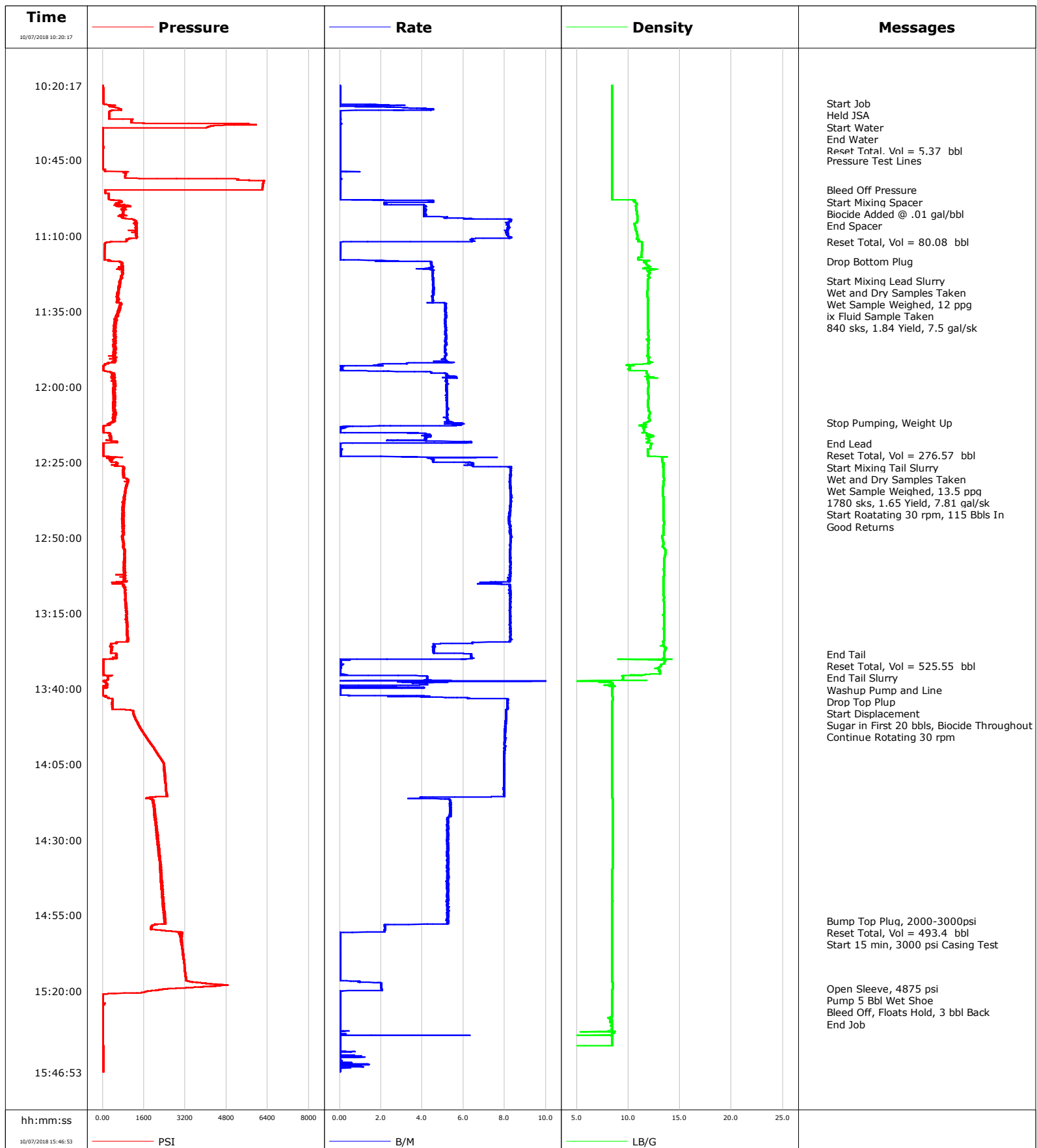


Well Cowboy 21-5HZ
Field Wattenberg
Engineer Ryan Drilling
Country United States

Client Anadarko
SIR No. DN38-00184
Job Type 5.5" Production
Job Date 10-07-2018



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Well			Field	Job Start		Customer		Job Number	
Cowboy 21-5HZ			Wattenberg		Oct/07/2018		Anadarko		DN38-00184
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/07/2018	10:48:41	81	0.0	8.41	0.0				
10/07/2018	10:49:41	885	0.0	8.40	0.1				
10/07/2018	10:50:41	876	0.0	8.41	0.1				
10/07/2018	10:51:41	5674	0.0	8.40	0.1				
10/07/2018	10:52:41	6220	0.0	8.40	0.1				
10/07/2018	10:53:41	6203	0.0	8.40	0.0				
10/07/2018	10:54:41	6190	0.0	8.41	0.0				
10/07/2018	10:54:52	6183	0.0	8.40	0.0	Bleed Off Pressure			
10/07/2018	10:55:22	103	0.0	8.41	0.0	Start Mixing Spacer			
10/07/2018	10:55:41	103	0.0	8.41	0.0				
10/07/2018	10:56:41	236	0.0	8.41	0.0				
10/07/2018	10:57:41	239	0.0	8.40	0.0				
10/07/2018	10:58:35	708	4.4	10.54	1.5	End Spacer			
10/07/2018	10:58:41	736	4.3	10.54	1.9				
10/07/2018	10:59:41	592	2.3	10.82	4.9				
10/07/2018	11:00:41	864	4.1	10.75	8.7				
10/07/2018	11:01:41	802	4.1	10.78	12.8				
10/07/2018	11:02:41	778	4.1	10.82	16.9				
10/07/2018	11:03:41	812	4.1	10.85	21.0				
10/07/2018	11:04:41	1200	8.2	10.87	26.9				
10/07/2018	11:05:41	1306	8.1	10.83	35.1				
10/07/2018	11:06:41	1317	8.2	10.61	43.3				
10/07/2018	11:07:41	1290	8.2	10.69	51.5				
10/07/2018	11:08:41	1258	8.1	10.79	59.6				
10/07/2018	11:09:41	1311	8.1	10.84	67.7				
10/07/2018	11:10:41	1309	8.3	10.85	75.9				
10/07/2018	11:11:41	928	6.4	10.94	82.8				
10/07/2018	11:12:04	328	1.3	11.25	85.1	Reset Total, Vol = 80.08 bbl			
10/07/2018	11:12:41	93	0.0	11.35	0.0				
10/07/2018	11:13:41	81	0.0	11.35	0.1				
10/07/2018	11:14:41	76	0.0	11.34	0.1				
10/07/2018	11:15:41	72	0.0	11.28	0.1				
10/07/2018	11:16:41	70	0.0	11.26	0.1				
10/07/2018	11:17:41	70	0.0	10.95	0.1				
10/07/2018	11:18:34	646	3.8	11.55	1.1	Drop Bottom Plug			
10/07/2018	11:18:41	720	4.4	11.55	1.6				
10/07/2018	11:19:41	778	4.4	11.79	6.0				
10/07/2018	11:20:41	744	4.4	11.66	10.5				
10/07/2018	11:21:41	770	4.5	11.85	14.8				
10/07/2018	11:22:41	782	4.5	12.03	19.3				
10/07/2018	11:23:41	736	4.5	12.01	23.8				
10/07/2018	11:24:41	687	4.5	11.89	28.4				
10/07/2018	11:24:50	673	4.5	11.88	29.0	Start Mixing Lead Slurry			
10/07/2018	11:24:51	673	4.5	11.88	29.1	Wet and Dry Samples Taken			
10/07/2018	11:24:52	669	4.5	11.88	29.2	ix Fluid Sample Taken			
10/07/2018	11:25:41	682	4.5	11.88	32.9				
10/07/2018	11:26:41	673	4.6	11.87	37.4				
10/07/2018	11:27:41	630	4.6	11.85	42.0				
10/07/2018	11:28:41	627	4.5	11.83	46.5				
10/07/2018	11:29:41	588	4.5	11.82	51.0				
10/07/2018	11:30:41	616	4.5	11.91	55.5				
10/07/2018	11:31:41	550	4.5	11.91	60.0				
10/07/2018	11:32:41	720	5.1	11.93	64.8				
10/07/2018	11:33:41	656	5.1	11.92	69.9				

Well			Field		Job Start		Customer		Job Number	
Cowboy 21-5HZ			Wattenberg		Oct/07/2018		Anadarko		DN38-00184	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/07/2018	11:35:41	573	5.1	11.92	80.2					
10/07/2018	11:36:41	547	5.1	11.92	85.3					
10/07/2018	11:37:41	512	5.1	11.92	90.4					
10/07/2018	11:38:41	527	5.1	11.92	95.6					
10/07/2018	11:39:41	467	5.1	11.93	100.7					
10/07/2018	11:40:41	437	5.1	11.91	105.8					
10/07/2018	11:41:41	444	5.1	11.94	110.9					
10/07/2018	11:42:41	478	5.1	11.94	116.1					
10/07/2018	11:43:41	477	5.2	11.98	121.2					
10/07/2018	11:44:41	449	5.1	11.99	126.4					
10/07/2018	11:45:41	454	5.2	11.96	131.5					
10/07/2018	11:46:41	460	5.1	11.86	136.6					
10/07/2018	11:47:41	440	5.1	11.91	141.7					
10/07/2018	11:48:41	415	5.1	11.91	146.9					
10/07/2018	11:49:41	385	5.1	11.84	152.0					
10/07/2018	11:50:41	442	5.1	11.93	157.1					
10/07/2018	11:51:41	417	4.8	12.02	162.2					
10/07/2018	11:52:41	84	1.9	10.53	166.2					
10/07/2018	11:53:41	24	0.1	10.13	166.9					
10/07/2018	11:54:41	46	0.0	10.10	167.0					
10/07/2018	11:55:41	368	5.1	11.76	170.6					
10/07/2018	11:56:41	446	5.5	11.67	175.9					
10/07/2018	11:57:41	434	5.2	11.83	181.2					
10/07/2018	11:58:41	444	5.2	11.95	186.4					
10/07/2018	11:59:41	475	5.2	11.96	191.5					
10/07/2018	12:00:41	435	5.2	11.92	196.7					
10/07/2018	12:01:41	463	5.2	11.91	201.9					
10/07/2018	12:02:41	498	5.2	11.94	207.1					
10/07/2018	12:03:41	483	5.2	11.95	212.3					
10/07/2018	12:04:41	476	5.2	11.93	217.5					
10/07/2018	12:05:41	492	5.2	11.91	222.7					
10/07/2018	12:06:41	481	5.2	11.93	227.9					
10/07/2018	12:07:41	429	5.2	11.95	233.1					
10/07/2018	12:08:41	459	5.2	12.09	238.3					
10/07/2018	12:09:41	455	5.2	12.00	243.5					
10/07/2018	12:10:41	483	5.2	12.02	248.7					
10/07/2018	12:11:41	447	5.4	11.86	253.9					
10/07/2018	12:11:53	427	5.4	11.77	255.0	Stop Pumping, Weight Up				
10/07/2018	12:12:41	257	5.6	11.66	259.5					
10/07/2018	12:13:41	21	0.3	11.49	261.4					
10/07/2018	12:14:41	20	0.0	11.53	261.5					
10/07/2018	12:15:41	282	4.2	11.78	263.1					
10/07/2018	12:16:41	303	4.2	12.14	267.4					
10/07/2018	12:17:41	142	3.5	12.00	271.5					
10/07/2018	12:18:41	35	1.3	12.22	276.5					
10/07/2018	12:18:52	32	0.0	12.23	276.6	End Lead				
10/07/2018	12:19:14	27	0.0	12.20	276.6	Reset Total, Vol = 276.57 bbl				
10/07/2018	12:19:41	26	0.0	12.16	0.0					
10/07/2018	12:20:41	27	0.1	11.85	0.0					
10/07/2018	12:21:41	26	0.1	11.89	0.1					
10/07/2018	12:22:41	26	0.1	11.90	0.1					
10/07/2018	12:23:41	352	4.4	13.24	2.8					
10/07/2018	12:24:16	345	4.5	13.30	5.4	Start Mixing Tail Slurry				
10/07/2018	12:24:18	357	4.5	13.30	5.6	Wet and Dry Samples Taken				

Well			Field		Job Start		Customer		Job Number	
Cowboy 21-5HZ			Wattenberg		Oct/07/2018		Anadarko		DN38-00184	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/07/2018	12:24:41	318	4.5	13.26	7.3					
10/07/2018	12:25:41	554	6.5	13.36	13.0					
10/07/2018	12:26:41	800	8.2	13.37	19.9					
10/07/2018	12:27:41	777	8.3	13.39	28.2					
10/07/2018	12:28:41	799	8.3	13.40	36.5					
10/07/2018	12:29:41	837	8.3	13.41	44.7					
10/07/2018	12:30:41	965	8.2	13.43	53.0					
10/07/2018	12:31:41	971	8.3	13.41	61.2					
10/07/2018	12:32:41	916	8.2	13.39	69.5					
10/07/2018	12:33:41	903	8.3	13.36	77.8					
10/07/2018	12:34:41	869	8.3	13.36	86.0					
10/07/2018	12:35:41	865	8.3	13.36	94.3					
10/07/2018	12:36:41	860	8.3	13.38	102.6					
10/07/2018	12:37:41	827	8.3	13.41	110.9					
10/07/2018	12:38:41	792	8.3	13.41	119.2					
10/07/2018	12:39:41	784	8.3	13.40	127.5					
10/07/2018	12:40:41	781	8.3	13.40	135.7					
10/07/2018	12:41:33	821	8.2	13.40	142.9	Good Returns				
10/07/2018	12:41:41	830	8.2	13.40	144.0					
10/07/2018	12:42:41	760	8.2	13.41	152.2					
10/07/2018	12:43:41	797	8.2	13.40	160.4					
10/07/2018	12:44:41	802	8.2	13.43	168.6					
10/07/2018	12:45:41	833	8.2	13.43	176.9					
10/07/2018	12:46:41	821	8.3	13.39	185.1					
10/07/2018	12:47:41	806	8.3	13.40	193.4					
10/07/2018	12:48:41	778	8.3	13.39	201.6					
10/07/2018	12:49:41	762	8.3	13.26	209.9					
10/07/2018	12:50:41	805	8.3	13.33	218.2					
10/07/2018	12:51:41	827	8.3	13.39	226.5					
10/07/2018	12:52:41	788	8.3	13.34	234.8					
10/07/2018	12:53:41	838	8.3	13.53	243.0					
10/07/2018	12:54:41	847	8.3	13.60	251.3					
10/07/2018	12:55:41	849	8.2	13.56	259.5					
10/07/2018	12:56:41	875	8.3	13.51	267.8					
10/07/2018	12:57:41	861	8.3	13.47	276.1					
10/07/2018	12:58:41	838	8.3	13.46	284.3					
10/07/2018	12:59:41	828	8.3	13.44	292.6					
10/07/2018	13:00:41	847	8.3	13.42	300.9					
10/07/2018	13:01:41	872	8.3	13.46	309.1					
10/07/2018	13:02:41	855	8.3	13.43	317.4					
10/07/2018	13:03:41	836	8.2	13.40	325.6					
10/07/2018	13:04:41	920	7.6	13.39	333.8					
10/07/2018	13:05:41	793	8.2	13.40	341.4					
10/07/2018	13:06:41	861	8.2	13.40	349.7					
10/07/2018	13:07:41	889	8.2	13.41	357.9					
10/07/2018	13:08:41	885	8.3	13.42	366.2					
10/07/2018	13:09:41	865	8.3	13.43	374.4					
10/07/2018	13:10:41	875	8.3	13.41	382.7					
10/07/2018	13:11:41	887	8.3	13.45	391.0					
10/07/2018	13:12:41	930	8.3	13.46	399.2					
10/07/2018	13:13:41	912	8.2	13.48	407.5					
10/07/2018	13:14:41	930	8.2	13.49	415.7					
10/07/2018	13:15:41	916	8.2	13.39	424.0					
10/07/2018	13:16:41	931	8.2	13.44	432.2					

Well			Field	Job Start		Customer		Job Number	
Cowboy 21-5HZ			Wattenberg		Oct/07/2018		Anadarko		DN38-00184
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/07/2018	13:18:41	961	8.3	13.50	448.8				
10/07/2018	13:19:41	962	8.3	13.50	457.0				
10/07/2018	13:20:41	931	8.3	13.44	465.3				
10/07/2018	13:21:41	938	8.3	13.43	473.6				
10/07/2018	13:22:41	974	8.3	13.43	481.8				
10/07/2018	13:23:41	993	8.3	13.47	490.1				
10/07/2018	13:24:41	529	6.4	13.38	498.2				
10/07/2018	13:25:41	335	4.6	13.36	503.5				
10/07/2018	13:26:41	350	4.5	13.64	508.1				
10/07/2018	13:27:41	316	4.6	13.52	512.6				
10/07/2018	13:28:34	520	6.3	13.51	517.0	End Tail			
10/07/2018	13:28:41	534	6.4	13.51	517.8				
10/07/2018	13:29:41	524	6.4	13.46	524.2				
10/07/2018	13:30:19	34	0.0	10.78	527.5	Reset Total, Vol = 525.55 bbl			
10/07/2018	13:30:41	29	0.0	13.58	0.1				
10/07/2018	13:30:50	28	0.0	13.56	0.1	End Tail Slurry			
10/07/2018	13:30:56	28	0.0	13.54	0.1	Washup Pump and Line			
10/07/2018	13:31:41	25	0.0	13.49	0.1				
10/07/2018	13:32:41	24	0.0	13.13	0.2				
10/07/2018	13:33:41	24	0.0	13.04	0.2				
10/07/2018	13:34:41	24	0.0	13.05	0.2				
10/07/2018	13:35:41	332	3.7	9.50	0.4				
10/07/2018	13:36:41	193	4.2	9.47	4.6				
10/07/2018	13:37:41	85	2.8	8.02	11.0				
10/07/2018	13:38:41	179	4.3	8.48	15.0				
10/07/2018	13:39:41	158	4.1	8.44	16.8				
10/07/2018	13:40:40	9	0.0	8.44	0.0	Drop Top Plup			
10/07/2018	13:40:41	9	0.0	8.44	0.0				
10/07/2018	13:41:41	9	0.0	8.44	0.0				
10/07/2018	13:42:40	122	3.7	8.47	1.3	Sugar in First 20 bbls, Biocide Throughout			
10/07/2018	13:42:41	114	3.9	8.47	1.4				
10/07/2018	13:43:41	376	8.1	8.47	8.0				
10/07/2018	13:44:41	362	8.1	8.43	16.1				
10/07/2018	13:45:41	374	8.1	8.44	24.2				
10/07/2018	13:46:41	368	8.1	8.43	32.4				
10/07/2018	13:47:41	1183	8.0	8.43	40.4				
10/07/2018	13:48:41	1215	8.1	8.43	48.5				
10/07/2018	13:49:41	1257	8.1	8.43	56.5				
10/07/2018	13:50:41	1311	8.0	8.43	64.6				
10/07/2018	13:51:41	1374	8.0	8.43	72.6				
10/07/2018	13:52:41	1435	8.0	8.43	80.6				
10/07/2018	13:53:41	1508	8.0	8.43	88.7				
10/07/2018	13:54:41	1583	8.0	8.43	96.7				
10/07/2018	13:55:41	1668	8.0	8.43	104.7				
10/07/2018	13:56:41	1744	8.0	8.43	112.7				
10/07/2018	13:57:41	1819	8.0	8.43	120.7				
10/07/2018	13:58:41	1911	8.0	8.43	128.7				
10/07/2018	13:59:41	1980	8.0	8.43	136.7				
10/07/2018	14:00:41	2065	8.0	8.43	144.7				
10/07/2018	14:01:41	2140	8.0	8.43	152.6				
10/07/2018	14:02:41	2219	8.0	8.43	160.6				
10/07/2018	14:03:41	2287	8.0	8.43	168.6				
10/07/2018	14:04:41	2355	8.0	8.43	176.5				
10/07/2018	14:05:41	2392	8.0	8.43	184.5				

Well			Field	Job Start		Customer		Job Number	
Cowboy 21-5HZ			Wattenberg		Oct/07/2018		Anadarko		DN38-00184
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/07/2018	14:07:41	2394	8.0	8.43	200.4				
10/07/2018	14:08:41	2419	8.0	8.43	208.4				
10/07/2018	14:09:41	2419	8.0	8.43	216.4				
10/07/2018	14:10:41	2430	8.0	8.43	224.3				
10/07/2018	14:11:41	2444	8.0	8.43	232.3				
10/07/2018	14:12:41	2446	7.9	8.43	240.2				
10/07/2018	14:13:41	2449	8.0	8.43	248.2				
10/07/2018	14:14:41	2490	8.0	8.43	256.1				
10/07/2018	14:15:41	2491	8.0	8.43	264.1				
10/07/2018	14:16:41	1952	5.3	8.45	268.8				
10/07/2018	14:17:41	1978	5.4	8.45	274.2				
10/07/2018	14:18:41	1978	5.4	8.45	279.5				
10/07/2018	14:19:41	1994	5.4	8.45	284.9				
10/07/2018	14:20:41	2018	5.3	8.45	290.3				
10/07/2018	14:21:41	2056	5.4	8.45	295.6				
10/07/2018	14:22:41	2056	5.2	8.45	300.9				
10/07/2018	14:23:41	2064	5.2	8.46	306.2				
10/07/2018	14:24:41	2077	5.2	8.46	311.4				
10/07/2018	14:25:41	2086	5.3	8.47	316.6				
10/07/2018	14:26:41	2082	5.2	8.47	321.9				
10/07/2018	14:27:41	2106	5.2	8.47	327.1				
10/07/2018	14:28:41	2125	5.2	8.46	332.3				
10/07/2018	14:29:41	2131	5.2	8.46	337.6				
10/07/2018	14:30:41	2162	5.2	8.46	342.8				
10/07/2018	14:31:41	2185	5.2	8.46	348.0				
10/07/2018	14:32:41	2165	5.3	8.46	353.3				
10/07/2018	14:33:41	2152	5.2	8.46	358.5				
10/07/2018	14:34:41	2179	5.2	8.46	363.7				
10/07/2018	14:35:41	2226	5.2	8.46	369.0				
10/07/2018	14:36:41	2237	5.3	8.45	374.2				
10/07/2018	14:37:41	2251	5.2	8.45	379.4				
10/07/2018	14:38:41	2216	5.2	8.45	384.7				
10/07/2018	14:39:41	2218	5.3	8.45	389.9				
10/07/2018	14:40:41	2277	5.2	8.44	395.1				
10/07/2018	14:41:41	2292	5.3	8.44	400.4				
10/07/2018	14:42:41	2246	5.2	8.44	405.6				
10/07/2018	14:43:41	2305	5.2	8.44	410.8				
10/07/2018	14:44:41	2292	5.2	8.44	416.1				
10/07/2018	14:45:41	2286	5.2	8.44	421.3				
10/07/2018	14:46:41	2290	5.2	8.44	426.5				
10/07/2018	14:47:41	2310	5.2	8.44	431.8				
10/07/2018	14:48:41	2343	5.2	8.44	437.0				
10/07/2018	14:49:41	2365	5.3	8.44	442.2				
10/07/2018	14:50:41	2343	5.2	8.44	447.5				
10/07/2018	14:51:41	2367	5.2	8.44	452.7				
10/07/2018	14:52:41	2392	5.3	8.44	457.9				
10/07/2018	14:53:41	2411	5.2	8.44	463.1				
10/07/2018	14:54:41	2409	5.2	8.44	468.4				
10/07/2018	14:55:41	2425	5.2	8.44	473.6				
10/07/2018	14:56:41	2386	5.2	8.44	478.8				
10/07/2018	14:56:44	2399	5.2	8.44	479.1	Bump Top Plug, 2000-3000psi			
10/07/2018	14:57:22	2444	5.3	8.44	482.4	Reset Total, Vol = 493.4 bbl			
10/07/2018	14:57:41	2400	5.2	8.44	484.1				
10/07/2018	14:58:41	1877	2.2	8.44	487.2				

Well			Field		Job Start		Customer		Job Number	
Cowboy 21-5HZ			Wattenberg		Oct/07/2018		Anadarko		DN38-00184	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/07/2018	15:00:14	2655	2.2	8.44	490.5	Start 15 min, 3000 psi Casing Test				
10/07/2018	15:00:41	3090	0.0	8.44	491.3					
10/07/2018	15:01:41	3071	0.0	8.44	491.3					
10/07/2018	15:02:41	3038	0.0	8.44	491.3					
10/07/2018	15:03:41	3036	0.0	8.44	491.3					
10/07/2018	15:04:41	3075	0.0	8.44	491.3					
10/07/2018	15:05:41	3091	0.0	8.44	491.3					
10/07/2018	15:06:41	3091	0.0	8.44	491.3					
10/07/2018	15:07:41	3109	0.0	8.44	491.3					
10/07/2018	15:08:41	3134	0.0	8.44	491.3					
10/07/2018	15:09:41	3144	0.0	8.44	491.3					
10/07/2018	15:10:41	3155	0.0	8.44	491.3					
10/07/2018	15:11:41	3168	0.0	8.44	491.3					
10/07/2018	15:12:41	3182	0.0	8.44	491.3					
10/07/2018	15:13:41	3194	0.0	8.44	491.3					
10/07/2018	15:14:41	3207	0.0	8.44	491.3					
10/07/2018	15:15:41	3220	0.0	8.44	491.3					
10/07/2018	15:16:41	3263	0.1	8.44	491.3					
10/07/2018	15:17:41	4244	2.0	8.52	0.6					
10/07/2018	15:18:41	3872	2.0	8.46	2.6					
10/07/2018	15:19:14	2715	2.0	8.45	3.7	Open Sleeve, 4875 psi				
10/07/2018	15:19:41	2200	2.0	8.44	4.6					
10/07/2018	15:20:41	1364	0.0	8.44	5.2					
10/07/2018	15:21:41	12	0.0	8.43	5.2					
10/07/2018	15:21:43	12	0.0	8.43	0.0	Bleed Off, Floats Hold, 3 bbl Back				
10/07/2018	15:22:41	12	0.0	8.44	0.0					
10/07/2018	15:23:41	13	0.0	8.44	0.0					
10/07/2018	15:24:41	33	0.0	8.44	0.0					
10/07/2018	15:25:40	10	0.0	8.44	0.0	End Job				
10/07/2018	15:25:41	10	0.0	8.44	0.0					
10/07/2018	15:26:41	10	0.0	8.44	0.0					
10/07/2018	15:27:41	9	0.0	8.44	0.0					
10/07/2018	15:28:41	9	0.0	8.41	0.0					
10/07/2018	15:29:41	9	0.0	8.34	0.0					
10/07/2018	15:30:41	9	0.0	8.43	0.0					
10/07/2018	15:31:41	9	0.0	8.43	0.0					
10/07/2018	15:32:41	9	0.0	8.43	0.0					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry 801.0	Mud	Spacer 80.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 796.0 bbl	Displacement 493.4 bbl	Mix Water Temp 68 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative			Schlumberger Supervisor Ryan Drilling			Circulation Lost <input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
						-	-	