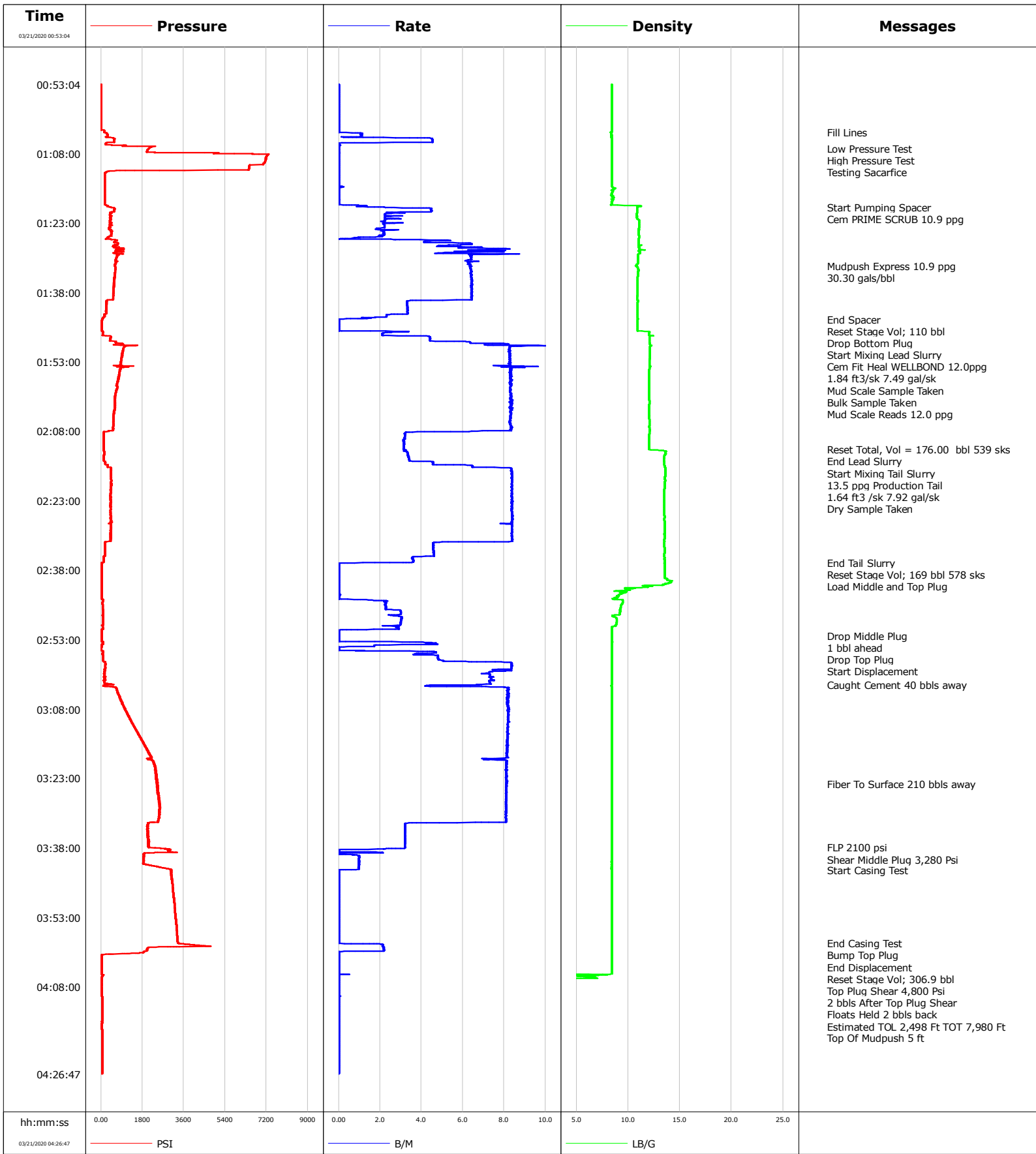


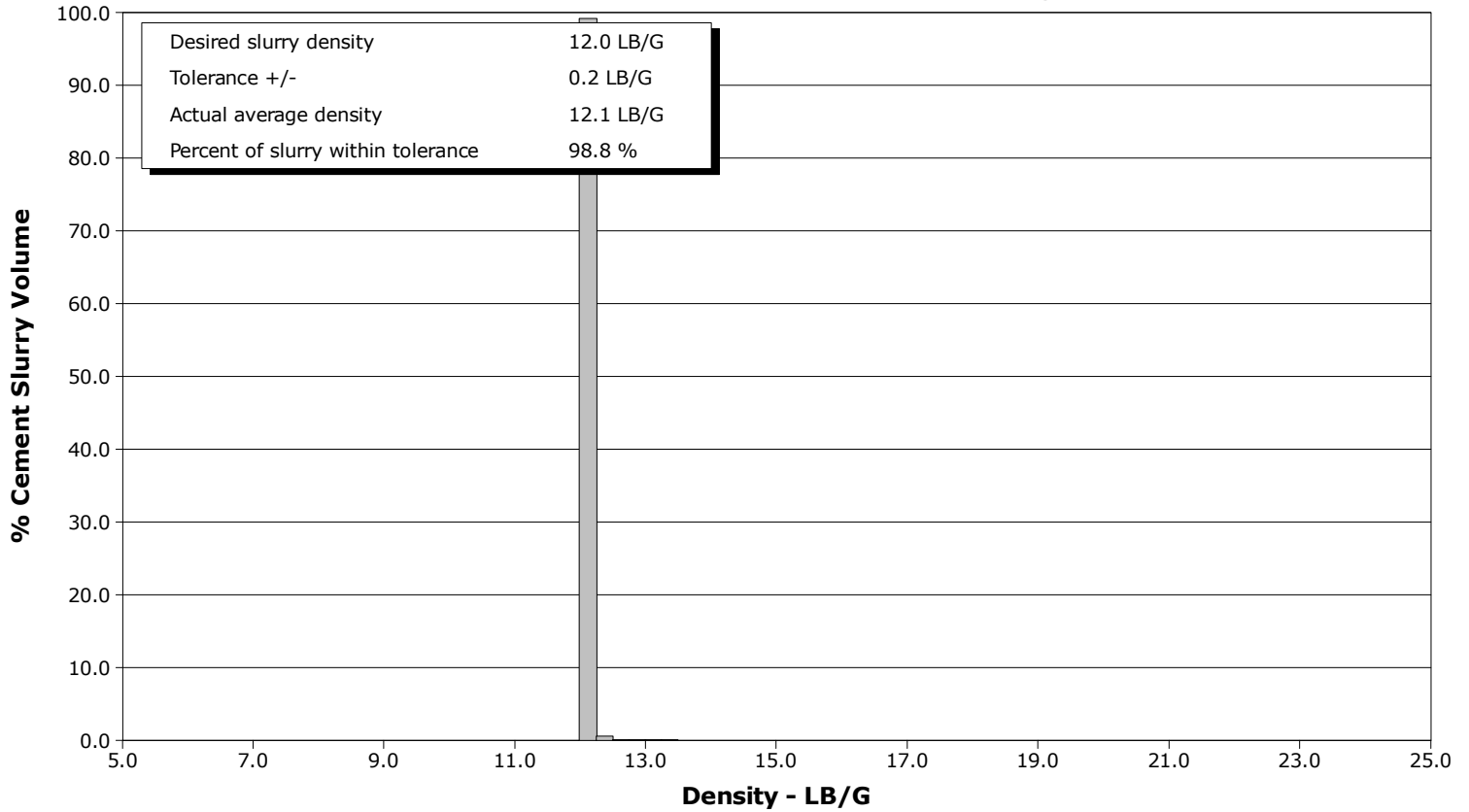
<b>Well</b>	MAE J8-8HZ	<b>Client</b>	Anadarko
<b>Field</b>	Wattenburg	<b>SIR No.</b>	3141868
<b>Engineer</b>	Jermarco Arrington / Sheldon Bell	<b>Job Type</b>	Cem Prod Casing
<b>Country</b>	North America	<b>Job Date</b>	



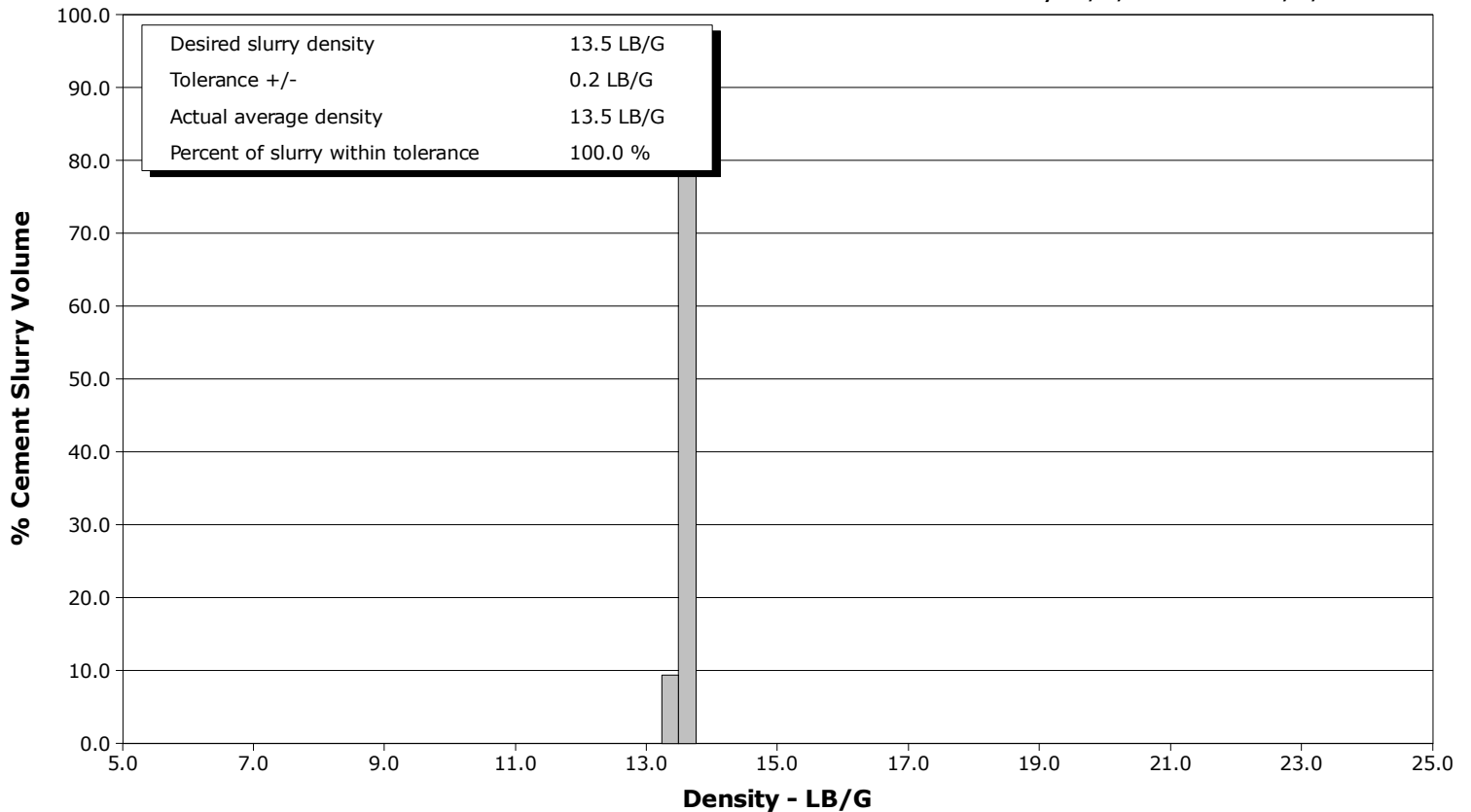
**Well** MAE J8-8HZ  
**Field** Wattenburg  
**Engineer** Jermarco Arrington / Sheldon Bell  
**Country** North America

**Client** Anadarko  
**SIR No.** 3141868  
**Job Type** Cem Prod Casing  
**Job Date**

Lead Slurry - 03/21/2020 01:46:41 to 03/21/2020 02:12:11



Tail Slurry - 03/21/2020 02:12:20 to 03/21/2020 02:36:24



				Customer		Job Number			
				Anadarko		3141868			
Well		Location (legal)		Schlumberger Location		Job Start			
MAE J8-8HZ		Erie				Mar/21/2020			
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD		
Wattenburg				deg	7.9 in	13244.0 ft	7823.0 ft		
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient		
Weld		Colorado		psi	230 degF	230 degF	lb/gal		
Well Master		API/UWI							
006596141		05-123-50509-00-00							
Rig Name	Drilled For	Service Via	Casing/Liner						
P-461	Oil	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone	Well Class	Well Type	1917.0	5.5	36.0	J55	8RD		
	New	Other	13244.0	9.6	17.0	P-110	8RD		
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe					
Oil Mud		9.50 lb/gal	90.000 cP	T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type								
Cementing	Cem Prod Casing								
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole						
psi	psi		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval		
			ft	ft			ft		
			ft	ft			Diameter		
			ft	ft			in		
Service Instructions		Treat Down	Displacement	Packer Type	Packer Depth				
9 5/8" 36# Previous Casing: 1,917 7 7/8" OH : 4% Excess Top of Lead Cement: 2,500' Top of Tail Cement: 8,000' TD: 13,244' (7,864') Temp Gradient 2.3 degF/100ft Bring 5 1/2" Head (Double Plug), Bowls, Top and Bottom Plugs Bring Defoamer, 400 lbs Sugar, and CemPRIME SCRUB Surfactant and		Casing	36.9 bbl		ft				
		Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.				
		bbl	307.0 bbl	455.4 bbl	363.6 bbl				
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement	Casing Tools		Squeeze Job				
<input type="checkbox"/>		<input checked="" type="checkbox"/>							
Lift Pressure		Shoe Type	Shoe Depth	Stage Tool Type	Squeeze Type				
psi		Float	13244.0 ft						
Pipe Rotated		Pipe Reciprocated	Stage Tool Depth	Tool Type					
<input type="checkbox"/>		<input type="checkbox"/>	ft						
No. Centralizers		Top Plugs	Bottom Plugs	Tool Depth					
		2	1	ft					
Cement Head Type		Stage Tool Depth	Tail Pipe Size						
Single		ft	in						
Job Scheduled For		Arrived on Location	Leave Location	Collar Type	Collar Depth	Tail Pipe Depth	Sqz. Total Vol.		
Mar/20/2020 04:00		Mar/21/2020 01:00	Mar/21/2020 05:00	Float	13232.0 ft	ft	bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Message				
03/21/2020	00:53:04	16	0.0	8.41	Started Acquisition				
03/21/2020	00:54:24	16	0.0	8.41					
03/21/2020	00:55:44	16	0.0	8.41					
03/21/2020	00:57:04	16	0.0	8.41					
03/21/2020	00:58:24	16	0.0	8.41					
03/21/2020	00:59:44	17	0.0	8.41					
03/21/2020	01:01:04	16	0.0	8.41					
03/21/2020	01:02:24	17	0.0	8.41					
03/21/2020	01:03:26	138	0.0	8.31	Fill Lines				
03/21/2020	01:03:44	277	1.1	8.39					
03/21/2020	01:05:04	567	4.5	8.41					
03/21/2020	01:06:24	941	0.0	8.41					
03/21/2020	01:06:55	2085	0.0	8.41	Low Pressure Test				
03/21/2020	01:07:44	2335	0.0	8.41					
03/21/2020	01:08:11	7294	0.0	8.41	High Pressure Test				
03/21/2020	01:09:04	7156	0.0	8.41					
03/21/2020	01:10:24	7050	0.0	8.41					
03/21/2020	01:10:29	6465	0.0	8.41	Testing Sacarifice				
03/21/2020	01:11:44	598	0.0	8.41					
03/21/2020	01:13:04	156	0.0	8.41					
03/21/2020	01:14:24	154	0.0	8.41					

Well		Field	Job Start	Customer	Job Number
MAE J8-8HZ		Wattenburg	Mar/21/2020	Anadarko	3141868
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Message
03/21/2020	01:17:04	153	0.0	8.39	
03/21/2020	01:18:24	154	0.0	8.43	
03/21/2020	01:19:33	402	1.9	10.90	Start Pumping Spacer
03/21/2020	01:19:44	568	3.1	10.86	
03/21/2020	01:20:37	490	4.3	10.85	Cem PRIME SCRUB 10.9 ppg
03/21/2020	01:21:04	412	2.2	10.84	
03/21/2020	01:22:24	415	2.2	11.03	
03/21/2020	01:23:44	391	2.2	11.04	
03/21/2020	01:25:04	463	2.2	11.03	
03/21/2020	01:26:24	254	0.3	11.01	
03/21/2020	01:27:44	629	5.9	11.03	
03/21/2020	01:29:04	790	7.2	10.99	
03/21/2020	01:30:24	689	6.4	10.96	
03/21/2020	01:32:15	611	6.4	10.74	Mudpush Express 10.9 ppg
03/21/2020	01:32:57	631	6.4	10.97	30.30 gals/bbl
03/21/2020	01:33:04	618	6.4	10.98	
03/21/2020	01:34:24	600	6.4	10.94	
03/21/2020	01:35:44	575	6.4	10.91	
03/21/2020	01:37:04	550	6.4	10.91	
03/21/2020	01:38:24	547	6.4	10.90	
03/21/2020	01:39:44	267	3.7	10.95	
03/21/2020	01:41:04	233	3.3	10.90	
03/21/2020	01:42:24	221	3.3	10.90	
03/21/2020	01:43:44	62	0.2	10.95	
03/21/2020	01:43:49	52	0.0	10.93	End Spacer
03/21/2020	01:43:59	44	0.0	10.91	Reset Stage Vol; 110 bbl
03/21/2020	01:44:00	43	0.0	10.91	Drop Bottom Plug
03/21/2020	01:45:04	30	0.0	10.90	
03/21/2020	01:46:24	87	2.7	11.63	
03/21/2020	01:46:41	86	2.3	12.04	Start Mixing Lead Slurry
03/21/2020	01:47:44	436	4.4	12.04	
03/21/2020	01:48:00	417	4.4	12.05	Cem Fit Heal WELLBOND 12.0ppg
03/21/2020	01:49:00	918	7.0	12.09	1.84 ft3/sk 7.49 gal/sk
03/21/2020	01:49:04	927	8.1	12.11	
03/21/2020	01:50:24	965	8.2	12.12	
03/21/2020	01:51:44	910	8.3	12.10	
03/21/2020	01:52:12	888	8.3	12.09	Mud Scale Sample Taken
03/21/2020	01:53:04	877	8.3	12.07	
03/21/2020	01:54:24	845	8.3	12.04	
03/21/2020	01:55:39	792	8.3	12.03	Bulk Sample Taken
03/21/2020	01:55:44	783	8.3	12.03	
03/21/2020	01:55:46	796	8.3	12.03	Mud Scale Reads 12.0 ppg
03/21/2020	01:57:04	743	8.3	12.02	
03/21/2020	01:58:24	704	8.3	12.02	
03/21/2020	01:59:44	655	8.3	12.02	
03/21/2020	02:01:04	597	8.3	12.03	
03/21/2020	02:02:24	621	8.4	12.03	
03/21/2020	02:03:44	567	8.3	12.03	
03/21/2020	02:05:04	537	8.3	12.03	
03/21/2020	02:06:24	520	8.3	12.05	
03/21/2020	02:07:44	526	8.3	12.09	
03/21/2020	02:09:04	120	3.2	12.03	
03/21/2020	02:10:24	113	3.2	12.03	
03/21/2020	02:11:44	110	3.1	12.02	

Well		Field	Job Start	Customer	Job Number
MAE J8-8HZ		Wattensburg	Mar/21/2020	Anadarko	3141868
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Message
03/21/2020	02:12:11	120	3.2	13.43	End Lead Slurry
03/21/2020	02:12:20	136	3.3	13.67	Start Mixing Tail Slurry
03/21/2020	02:12:49	136	3.3	13.62	13.5 ppg Production Tail
03/21/2020	02:13:00	132	3.3	13.56	1.64 ft3 /sk 7.92 gal/sk
03/21/2020	02:13:04	134	3.3	13.56	
03/21/2020	02:14:00	118	3.4	13.46	Dry Sample Taken
03/21/2020	02:14:24	117	3.4	13.46	
03/21/2020	02:15:44	301	6.5	13.56	
03/21/2020	02:17:04	445	8.4	13.57	
03/21/2020	02:18:24	446	8.4	13.56	
03/21/2020	02:19:44	434	8.4	13.54	
03/21/2020	02:21:04	411	8.4	13.51	
03/21/2020	02:22:24	420	8.4	13.50	
03/21/2020	02:23:44	416	8.4	13.51	
03/21/2020	02:25:04	430	8.3	13.50	
03/21/2020	02:26:24	448	8.4	13.52	
03/21/2020	02:27:44	438	8.3	13.52	
03/21/2020	02:29:04	429	8.4	13.53	
03/21/2020	02:30:24	397	8.4	13.52	
03/21/2020	02:31:44	411	8.4	13.52	
03/21/2020	02:33:04	171	4.6	13.52	
03/21/2020	02:34:24	181	4.6	13.51	
03/21/2020	02:35:44	121	3.6	13.52	
03/21/2020	02:36:24	24	1.2	13.52	End Tail Slurry
03/21/2020	02:36:59	25	0.0	13.52	Reset Stage Vol; 169 bbl 578 sks
03/21/2020	02:37:04	24	0.0	13.52	
03/21/2020	02:38:24	28	0.0	13.52	
03/21/2020	02:40:07	31	0.0	13.77	Load Middle and Top Plug
03/21/2020	02:41:04	31	0.0	13.65	
03/21/2020	02:42:24	32	0.0	9.49	
03/21/2020	02:43:44	32	0.0	9.06	
03/21/2020	02:45:04	64	2.3	9.45	
03/21/2020	02:46:24	66	2.3	9.24	
03/21/2020	02:47:44	87	2.7	8.53	
03/21/2020	02:49:04	89	3.0	8.88	
03/21/2020	02:50:24	85	2.8	8.41	
03/21/2020	02:51:44	31	0.0	8.41	
03/21/2020	02:52:09	30	0.0	8.41	Drop Middle Plug
03/21/2020	02:53:00	29	0.0	8.41	1 bbl ahead
03/21/2020	02:53:04	30	0.0	8.41	
03/21/2020	02:54:24	30	1.7	8.41	
03/21/2020	02:54:59	20	0.0	8.41	Drop Top Plug
03/21/2020	02:55:19	28	0.3	8.41	Start Displacement
03/21/2020	02:55:44	89	4.7	8.41	
03/21/2020	02:57:04	90	4.8	8.41	
03/21/2020	02:58:24	200	8.3	8.41	
03/21/2020	02:59:44	197	8.0	8.41	
03/21/2020	03:01:04	115	7.5	8.41	
03/21/2020	03:02:24	161	7.3	8.41	
03/21/2020	03:02:42	566	6.8	8.41	Caught Cement 40 bbls away
03/21/2020	03:03:44	694	8.2	8.41	
03/21/2020	03:05:04	785	8.2	8.41	
03/21/2020	03:06:24	912	8.2	8.41	
03/21/2020	03:07:44	1003	8.2	8.41	

Well		Field	Job Start	Customer	Job Number
MAE J8-8HZ		Wattensburg	Mar/21/2020	Anadarko	3141868
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Message
03/21/2020	03:10:24	1282	8.2	8.41	
03/21/2020	03:11:44	1425	8.2	8.41	
03/21/2020	03:13:04	1610	8.2	8.41	
03/21/2020	03:14:24	1750	8.1	8.41	
03/21/2020	03:15:44	1906	8.1	8.40	
03/21/2020	03:17:04	2035	8.1	8.41	
03/21/2020	03:18:24	2220	8.1	8.40	
03/21/2020	03:19:44	2323	8.1	8.41	
03/21/2020	03:21:04	2368	8.1	8.40	
03/21/2020	03:22:24	2406	8.1	8.40	
03/21/2020	03:23:44	2446	8.1	8.40	
03/21/2020	03:24:13	2431	8.1	8.40	Fiber To Surface 210 bbls away
03/21/2020	03:25:04	2464	8.1	8.40	
03/21/2020	03:26:24	2490	8.1	8.40	
03/21/2020	03:27:44	2523	8.1	8.40	
03/21/2020	03:29:04	2574	8.1	8.40	
03/21/2020	03:30:24	2522	8.1	8.40	
03/21/2020	03:31:44	2498	8.1	8.40	
03/21/2020	03:33:04	2025	3.2	8.40	
03/21/2020	03:34:24	2043	3.2	8.40	
03/21/2020	03:35:44	2012	3.2	8.40	
03/21/2020	03:37:04	2069	3.2	8.40	
03/21/2020	03:37:53	2066	3.2	8.40	FLP 2100 psi
03/21/2020	03:38:24	2911	0.0	8.40	
03/21/2020	03:38:58	3324	2.1	8.40	Shear Middle Plug 3,280 Psi
03/21/2020	03:39:44	1859	1.0	8.40	
03/21/2020	03:41:04	1850	1.0	8.40	
03/21/2020	03:42:24	2840	1.0	8.40	
03/21/2020	03:42:40	3031	0.4	8.40	Start Casing Test
03/21/2020	03:43:44	3062	0.0	8.40	
03/21/2020	03:45:04	3084	0.0	8.40	
03/21/2020	03:46:24	3118	0.0	8.40	
03/21/2020	03:47:44	3145	0.0	8.40	
03/21/2020	03:49:04	3171	0.0	8.40	
03/21/2020	03:50:24	3197	0.0	8.40	
03/21/2020	03:51:44	3224	0.0	8.40	
03/21/2020	03:53:04	3247	0.0	8.40	
03/21/2020	03:54:24	3270	0.0	8.40	
03/21/2020	03:55:44	3294	0.0	8.40	
03/21/2020	03:57:04	3317	0.0	8.40	
03/21/2020	03:58:24	3339	0.0	8.40	
03/21/2020	03:58:33	3342	0.0	8.40	End Casing Test
03/21/2020	03:58:35	3349	0.0	8.40	Bump Top Plug
03/21/2020	03:58:50	3857	2.1	8.40	End Displacement
03/21/2020	03:58:58	4119	2.1	8.40	Reset Stage Vol; 306.9 bbl
03/21/2020	03:59:19	3184	2.2	8.40	Top Plug Shear 4,800 Psi
03/21/2020	03:59:44	2046	2.2	8.40	
03/21/2020	04:00:00	1988	2.2	8.40	2 bbls After Top Plug Shear
03/21/2020	04:01:04	26	0.0	8.40	
03/21/2020	04:02:24	23	0.0	8.40	
03/21/2020	04:03:44	25	0.0	8.40	
03/21/2020	04:05:00	24	0.0	8.41	Floats Held 2 bbls back
03/21/2020	04:05:04	24	0.0	8.41	
03/21/2020	04:06:00	21	0.0	6.14	Estimated TOL 2,498 Ft TOT 7,980 Ft

Well		Field		Job Start		Customer		Job Number	
MAE J8-8HZ		Wattenburg		Mar/21/2020		Anadarko		3141868	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Message				
03/21/2020	04:06:24	22	0.0	0.09					
03/21/2020	04:07:44	22	0.0	0.09					
03/21/2020	04:09:04	22	0.0	0.09					
03/21/2020	04:10:24	47	0.0	0.15					
03/21/2020	04:11:44	48	0.0	0.11					
03/21/2020	04:13:04	48	0.0	0.10					
03/21/2020	04:14:24	48	0.0	0.11					
03/21/2020	04:15:44	51	0.0	0.11					
03/21/2020	04:17:04	26	0.0	0.09					
03/21/2020	04:18:24	47	0.0	0.10					
03/21/2020	04:19:44	44	0.0	0.09					
03/21/2020	04:21:04	46	0.0	0.09					
03/21/2020	04:23:44	51	0.0	0.08					
03/21/2020	04:25:04	48	0.0	0.09					

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
			0.0	345.0	0.0	110.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
0	0					306.9 bbl	8.34 lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	bbl	
%	345.0 bbl	306.9 bbl	70 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft	
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>	
Terry Hackford	Jermarco Arrington / Sheldon Bell			-		-		