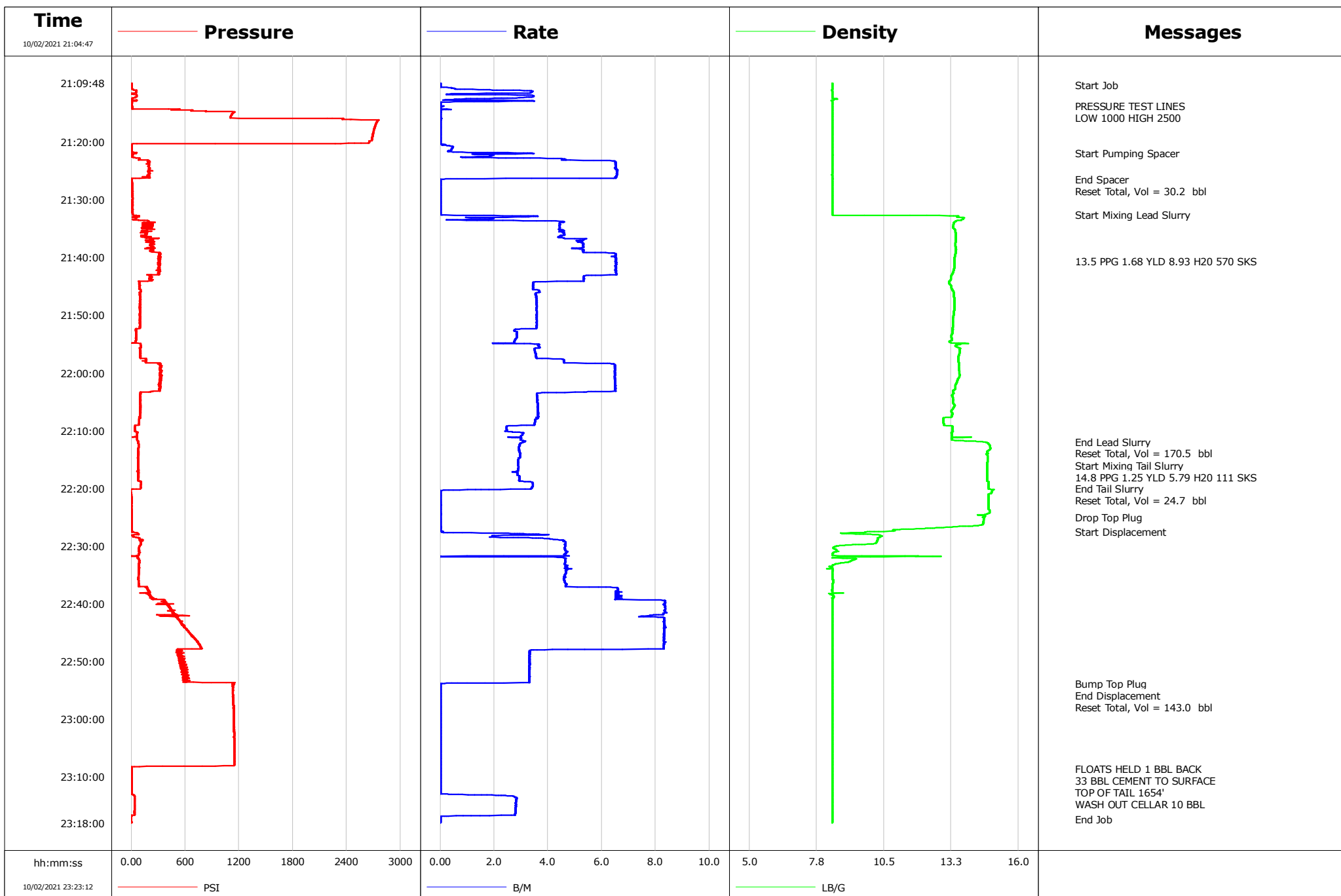


**Well** ROTH A32-779  
**Field** WATTENBERG  
**Engineer** ZACHARY BUCK  
**Country** United States

**Client** CHEVRON  
**SIR No.** EN82-00737  
**Job Type** SURFACE  
**Job Date** 10-02-2021





# Cementing Service Report

				Customer CHEVRON			Job Number EN82-00737	
Well ROTH A32-779 A32-779		Location (legal) ROTH PAD		Schlumberger Location CHEYENNE		Job Start Oct/02/2021		
Field WATTENBERG		Formation Name/Type Dirty-Sandstone		Deviation 0 deg	Bit Size 13.5 in	Well MD 1939.0 ft	Well TVD 1936.0 ft	
County WELD COUNTY		State/Province Colorado		BHP psi	BHST 120 degF	BHCT 91 degF	Pore Press. Gradient lb/gal	
Well Master 0066224039		API/UWI 05-123-51328-00-00						
Rig Name H&P 517	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	1926.3	9.6	36.0	J55	BUTT	
			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 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	
Service Instructions PUMP 30.2 BBL H2O SPACER PUMP 170.5 BBL LEAD @ 13.5 PPG 1.68YLD 8.93H2O 570SKS PUMP 24.7 BBL TAIL @ 14.8 PPG 1.25YLD 5.79H2O 111SKS DROP TOP PLUG DISP 143 BBL H2O 33 BBL CEM TO SURF ToT 1654'			ft	ft				
			ft	ft			Diameter in	
			ft	ft				
			Treat Down Casing	Displacement 143.0 bbl	Packer Type	Packer Depth ft		
Tubing Vol. bbl	Casing Vol. 146.6 bbl	Annular Vol. 10.9 bbl	Openhole Vol. 158.2 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 600 psi		Shoe Type Float		Squeeze Type				
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 1926.3 ft		Tool Type				
No. Centralizers 17	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 Oct/02/2021 19:30	Arrived on Location Oct/02/2021 19:30	Leave Location Oct/02/2021 23:30	Collar Type Float		Tail Pipe Depth ft			
			Collar Depth 1880.1 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/02/2021	21:09:51	0	0.0	8.39	0.0			
10/02/2021	21:10:05	3	0.0	8.39	0.0	Start Job		
10/02/2021	21:10:41	3	0.4	8.39	0.0			
10/02/2021	21:12:21	45	2.9	8.39	0.0			
10/02/2021	21:13:11	6	0.0	8.40	0.0			
10/02/2021	21:13:49	11	0.1	8.39	0.0	PRESSURE TEST LINES		
10/02/2021	21:13:50	11	0.1	8.39	0.0	LOW 1000 HIGH 2500		
10/02/2021	21:14:01	11	0.0	8.39	0.0			
10/02/2021	21:14:51	1146	0.0	8.39	0.0			
10/02/2021	21:15:41	1104	0.0	8.39	0.0			
10/02/2021	21:16:31	2737	0.0	8.39	0.0			
10/02/2021	21:17:21	2713	0.0	8.39	0.0			
10/02/2021	21:18:11	2699	0.0	8.39	0.0			
10/02/2021	21:19:01	2687	0.0	8.39	0.0			
10/02/2021	21:19:51	2651	0.0	8.39	0.0			
10/02/2021	21:20:41	4	0.4	8.39	0.0			
10/02/2021	21:21:31	5	0.3	8.39	0.0			
10/02/2021	21:21:55	55	3.1	8.39	0.0	Start Pumping Spacer		
10/02/2021	21:22:21	11	1.9	8.40	0.0			
10/02/2021	21:23:11	183	5.3	8.39	0.0			
10/02/2021	21:24:01	203	6.5	8.39	0.0			

Well			Field		Job Start	Customer		Job Number
ROTH A32-779 A32-779			WATTENBERG		Oct/02/2021	CHEVRON		EN82-00737
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/02/2021	21:25:41	204	6.6	8.38	0.0			
10/02/2021	21:26:28	2	0.1	8.39	0.0	End Spacer		
10/02/2021	21:26:31	2	0.0	8.39	0.0			
10/02/2021	21:26:32	3	0.0	8.39	0.0	Reset Total, Vol = 30.2 bbl		
10/02/2021	21:27:21	7	0.0	8.39	0.0			
10/02/2021	21:28:11	10	0.0	8.39	0.0			
10/02/2021	21:29:01	11	0.0	8.39	0.0			
10/02/2021	21:29:51	11	0.0	8.39	0.0			
10/02/2021	21:30:41	11	0.0	8.39	0.0			
10/02/2021	21:31:31	10	0.0	8.39	0.0			
10/02/2021	21:32:21	12	0.0	8.39	0.0			
10/02/2021	21:32:40	22	0.1	8.39	0.0	Start Mixing Lead Slurry		
10/02/2021	21:33:11	52	1.7	13.79	0.0			
10/02/2021	21:34:01	168	4.4	13.36	0.0			
10/02/2021	21:34:51	223	4.4	13.31	0.0			
10/02/2021	21:35:41	113	4.6	13.43	0.0			
10/02/2021	21:36:31	204	4.4	13.44	0.0			
10/02/2021	21:37:21	256	5.1	13.43	0.0			
10/02/2021	21:38:11	246	5.3	13.43	0.0			
10/02/2021	21:39:01	228	5.3	13.44	0.0			
10/02/2021	21:39:51	302	6.4	13.39	0.0			
10/02/2021	21:40:41	322	6.5	13.38	0.0			
10/02/2021	21:40:43	304	6.5	13.38	0.0	13.5 PPG 1.68 YLD 8.93 H2O 570 SKS		
10/02/2021	21:41:31	311	6.5	13.38	0.0			
10/02/2021	21:42:21	316	6.5	13.34	0.0			
10/02/2021	21:43:11	202	5.4	13.26	0.0			
10/02/2021	21:44:01	223	5.3	13.21	0.0			
10/02/2021	21:44:51	95	3.4	13.22	0.0			
10/02/2021	21:45:41	104	3.7	13.30	0.0			
10/02/2021	21:46:31	98	3.5	13.35	0.0			
10/02/2021	21:47:21	98	3.6	13.38	0.0			
10/02/2021	21:48:11	100	3.6	13.38	0.0			
10/02/2021	21:49:01	99	3.6	13.37	0.0			
10/02/2021	21:49:51	98	3.6	13.35	0.0			
10/02/2021	21:50:41	100	3.6	13.32	0.0			
10/02/2021	21:51:31	99	3.6	13.32	0.0			
10/02/2021	21:52:21	69	3.6	13.30	0.0			
10/02/2021	21:53:11	56	2.9	13.29	0.0			
10/02/2021	21:54:01	51	2.8	13.28	0.0			
10/02/2021	21:54:51	6	2.7	13.27	0.0			
10/02/2021	21:55:41	99	3.7	13.57	0.0			
10/02/2021	21:56:31	96	3.5	13.59	0.0			
10/02/2021	21:57:21	103	3.6	13.53	0.0			
10/02/2021	21:58:11	167	4.6	13.55	0.0			
10/02/2021	21:59:01	319	6.5	13.57	0.0			
10/02/2021	21:59:51	324	6.5	13.58	0.0			
10/02/2021	22:00:41	318	6.5	13.58	0.0			
10/02/2021	22:01:31	330	6.5	13.48	0.0			
10/02/2021	22:02:21	324	6.5	13.42	0.0			
10/02/2021	22:03:11	316	6.5	13.32	0.0			
10/02/2021	22:04:01	97	3.6	13.29	0.0			
10/02/2021	22:04:51	102	3.6	13.32	0.0			
10/02/2021	22:05:41	103	3.6	13.39	0.0			
10/02/2021	22:06:31	98	3.6	13.26	0.0			

Well			Field		Job Start	Customer		Job Number
ROTH A32-779 A32-779			WATTENBERG		Oct/02/2021	CHEVRON		EN82-00737
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/02/2021	22:08:11	86	3.5	12.93	0.0			
10/02/2021	22:09:01	87	3.5	12.95	0.0			
10/02/2021	22:09:51	41	2.5	13.30	0.0			
10/02/2021	22:10:41	63	3.1	13.27	0.0			
10/02/2021	22:11:31	62	3.0	13.27	0.0			
10/02/2021	22:11:56	73	3.1	14.45	0.0	End Lead Slurry		
10/02/2021	22:12:05	78	3.1	14.70	0.0	Reset Total, Vol = 170.5 bbl		
10/02/2021	22:12:21	79	2.9	14.78	0.0			
10/02/2021	22:12:25	79	2.9	14.80	0.0	Start Mixing Tail Slurry		
10/02/2021	22:13:11	77	2.9	14.85	0.0			
10/02/2021	22:14:01	77	3.0	14.75	0.0			
10/02/2021	22:14:51	75	2.9	14.73	0.0			
10/02/2021	22:15:41	75	2.9	14.72	0.0			
10/02/2021	22:15:44	74	2.9	14.72	0.0	14.8 PPG 1.25 YLD 5.79 H2O 111 SKS		
10/02/2021	22:16:31	75	2.9	14.72	0.0			
10/02/2021	22:17:21	78	2.9	14.72	0.0			
10/02/2021	22:18:11	78	2.9	14.72	0.0			
10/02/2021	22:19:01	107	3.4	14.78	0.0			
10/02/2021	22:19:51	104	3.4	14.77	0.0			
10/02/2021	22:20:02	105	3.4	14.78	0.0	End Tail Slurry		
10/02/2021	22:21:31	-1	0.0	14.78	0.0			
10/02/2021	22:21:40	3	0.0	14.78	0.0	Reset Total, Vol = 24.7 bbl		
10/02/2021	22:22:21	1	0.0	14.78	0.0			
10/02/2021	22:23:11	-1	0.0	14.78	0.0			
10/02/2021	22:24:01	0	0.0	14.81	0.0			
10/02/2021	22:24:51	1	0.0	14.63	0.0			
10/02/2021	22:25:04	1	0.0	14.54	0.0	Drop Top Plug		
10/02/2021	22:25:41	3	0.0	14.57	0.0			
10/02/2021	22:26:31	5	0.0	14.24	0.0			
10/02/2021	22:27:21	1	0.0	10.95	0.0			
10/02/2021	22:27:33	11	0.1	9.94	0.0	Start Displacement		
10/02/2021	22:28:11	10	2.2	10.34	0.0			
10/02/2021	22:29:01	112	4.6	10.24	0.0			
10/02/2021	22:29:51	101	4.6	9.01	0.0			
10/02/2021	22:30:41	83	4.6	8.56	0.0			
10/02/2021	22:31:31	82	4.6	8.40	0.0			
10/02/2021	22:32:21	88	4.6	9.31	0.0			
10/02/2021	22:33:11	83	4.6	8.51	0.0			
10/02/2021	22:34:01	84	4.8	8.42	0.0			
10/02/2021	22:34:51	82	4.6	8.39	0.0			
10/02/2021	22:35:41	79	4.6	8.39	0.0			
10/02/2021	22:36:31	79	4.7	8.41	0.0			
10/02/2021	22:37:21	179	6.6	8.39	0.0			
10/02/2021	22:38:11	183	6.6	8.84	0.0			
10/02/2021	22:39:01	209	6.5	8.41	0.0			
10/02/2021	22:39:51	381	8.4	8.39	0.0			
10/02/2021	22:40:41	440	8.3	8.39	0.0			
10/02/2021	22:41:31	470	8.4	8.39	0.0			
10/02/2021	22:42:21	496	8.2	8.39	0.0			
10/02/2021	22:43:11	552	8.3	8.39	0.0			
10/02/2021	22:44:01	587	8.3	8.39	0.0			
10/02/2021	22:44:51	638	8.3	8.39	0.0			
10/02/2021	22:45:41	694	8.3	8.39	0.0			
10/02/2021	22:46:31	735	8.3	8.39	0.0			

Well			Field		Job Start		Customer		Job Number	
ROTH A32-779 A32-779			WATTENBERG		Oct/02/2021		CHEVRON		EN82-00737	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/02/2021	22:48:11	543	3.3	8.39	0.0					
10/02/2021	22:49:01	535	3.3	8.39	0.0					
10/02/2021	22:50:41	566	3.3	8.39	0.0					
10/02/2021	22:51:31	589	3.3	8.39	0.0					
10/02/2021	22:52:21	612	3.3	8.39	0.0					
10/02/2021	22:53:11	589	3.3	8.39	0.0					
10/02/2021	22:53:50	1136	0.2	8.39	0.0	Bump Top Plug				
10/02/2021	22:53:53	1135	0.0	8.39	0.0	End Displacement				
10/02/2021	22:54:01	1135	0.0	8.39	0.0					
10/02/2021	22:54:51	1131	0.0	8.39	0.0					
10/02/2021	22:54:56	1132	0.0	8.39	0.0	Reset Total, Vol = 143.0 bbl				
10/02/2021	22:55:41	1131	0.0	8.39	0.0					
10/02/2021	22:56:31	1133	0.0	8.39	0.0					
10/02/2021	22:57:21	1135	0.0	8.39	0.0					
10/02/2021	22:58:11	1140	0.0	8.39	0.0					
10/02/2021	22:59:01	1142	0.0	8.39	0.0					
10/02/2021	22:59:51	1141	0.0	8.39	0.0					
10/02/2021	23:00:41	1142	0.0	8.39	0.0					
10/02/2021	23:01:31	1143	0.0	8.39	0.0					
10/02/2021	23:02:21	1144	0.0	8.39	0.0					
10/02/2021	23:03:11	1144	0.0	8.39	0.0					
10/02/2021	23:04:01	1146	0.0	8.39	0.0					
10/02/2021	23:04:51	1147	0.0	8.39	0.0					
10/02/2021	23:05:41	1146	0.0	8.39	0.0					
10/02/2021	23:06:31	1148	0.0	8.39	0.0					
10/02/2021	23:07:21	1149	0.0	8.39	0.0					
10/02/2021	23:08:11	587	0.0	8.39	0.0					
10/02/2021	23:08:35	4	0.0	8.39	0.0	FLOATS HELD 1 BBL BACK				
10/02/2021	23:08:39	4	0.0	8.39	0.0	33 BBL CEMENT TO SURFACE				
10/02/2021	23:08:41	4	0.0	8.39	0.0	TOP OF TAIL 1654'				
10/02/2021	23:09:01	4	0.0	8.39	0.0					
10/02/2021	23:09:51	1	0.0	8.39	0.0					
10/02/2021	23:10:41	3	0.0	8.39	0.0					
10/02/2021	23:11:31	4	0.0	8.39	0.0					
10/02/2021	23:12:21	2	0.0	8.39	0.0					
10/02/2021	23:13:11	29	1.9	8.39	0.0					
10/02/2021	23:13:33	37	2.8	8.39	0.0	WASH OUT CELLAR 10 BBL				
10/02/2021	23:14:01	38	2.8	8.39	0.0					
10/02/2021	23:14:51	38	2.8	8.40	0.0					
10/02/2021	23:15:41	35	2.8	8.40	0.0					
10/02/2021	23:16:31	33	2.8	8.39	0.0					
10/02/2021	23:17:21	-1	0.0	8.40	0.0	End Job				

<b>Well</b> ROTH A32-779 A32-779	<b>Field</b> WATTENBERG	<b>Job Start</b> Oct/02/2021	<b>Customer</b> CHEVRON	<b>Job Number</b> EN82-00737
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.3	N2		Mud	Maximum Rate 8.4	Total Slurry 195.2	Mud 0.0		Spacer 30.2	N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2758	Final 1	Average 363	Bump Plug to 1120	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 186.8 bbl		Displacement 143.0 bbl		Mix Water Temp 78 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 33.0 bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To ft
Customer or Authorized Representative Duane Gonzalez, James Koy, Josh Lewis				Schlumberger Supervisor ZACHARY BUCK				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	