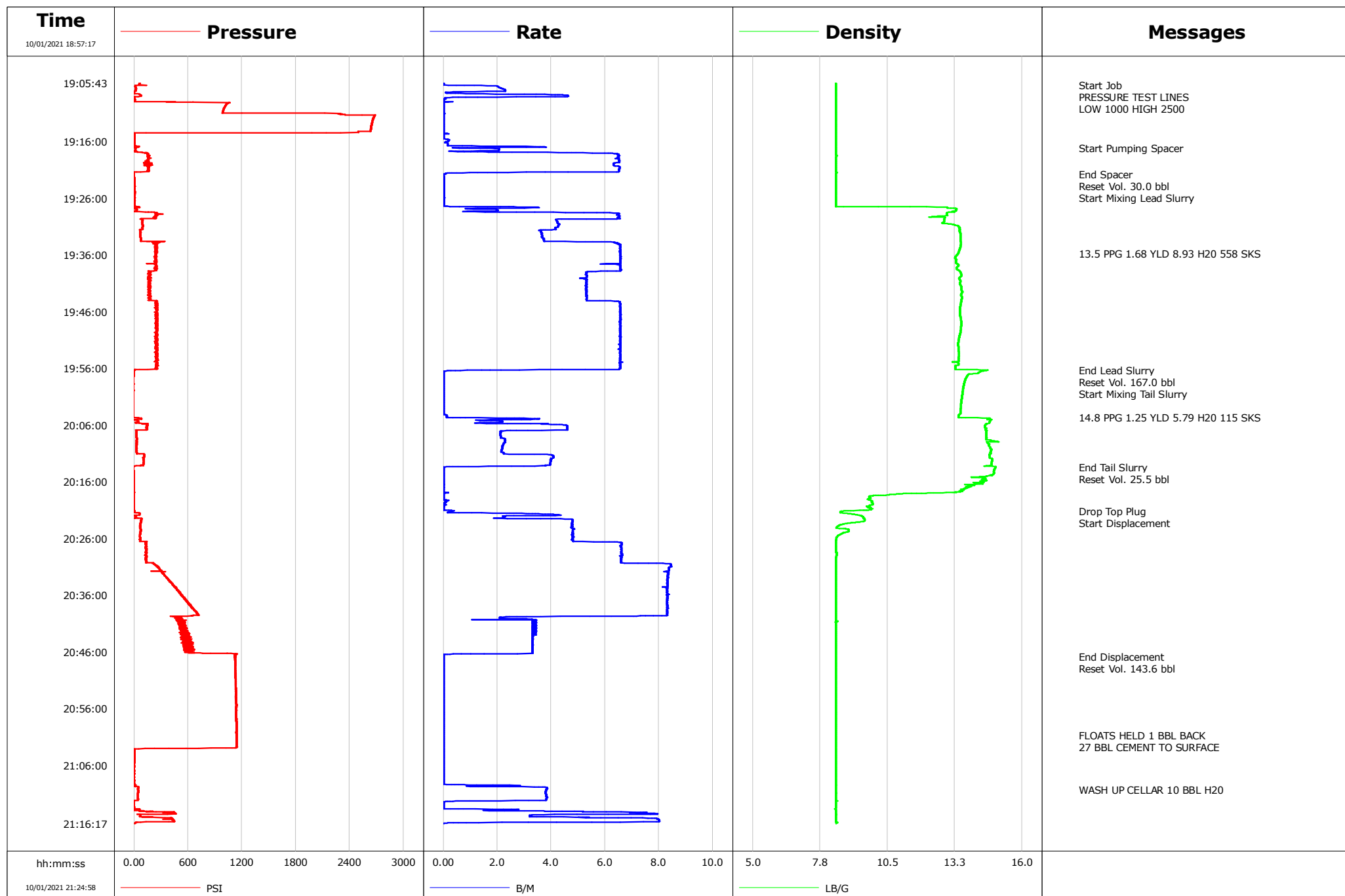


Well ROTH A32-760
Field WATTENBERG
Engineer ZACHARY BUCK
Country United States

Client CHEVRON
SIR No. EN82-00735
Job Type SURFACE
Job Date 10-01-2021





Cementing Service Report

				Customer CHEVRON		Job Number EN82-00735	
Well ROTH A32-760 A32-760		Location (legal) ROTH PAD		Schlumberger Location CHEYENNE		Job Start Oct/01/2021	
Field WATTENBERG		Formation Name/Type Dirty-Sandstone		Deviation 0 deg	Bit Size 13.5 in	Well MD 1940.0 ft	Well TVD 1940.0 ft
County WELD COUNTY		State/Province Colorado		BHP psi	BHST 120 degF	BHCT 91 degF	Pore Press. Gradient lb/gal
Well Master 0066087334		API/UWI 05-123-51330-00-00					
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	1929.9	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
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 BBL H2O SPACER PUMP 167 BBL LEAD @ 13.5 PPG 1.68YLD 8.93H2O 558SKS PUMP 25.5 BBL TAIL @ 14.8 PPG 1.25YLD 5.79H2O 115SKS DROP TOP PLUG DISP 143.6 BBL H2O 27 BBL CEM TO SUR			ft	ft			
			ft	ft			Diameter in
			ft	ft			
			Treat Down Casing	Displacement 143.6 bbl	Packer Type	Packer Depth ft	
Tubing Vol. bbl	Casing Vol. 147.0 bbl	Annular Vol. 10.9 bbl	Openhole Vol. 158.5 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 640 psi			Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1929.9 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/01/2021 16:00	Arrived on Location Oct/01/2021 16:00	Leave Location Oct/01/2021 00:00	Collar Type Float		Tail Pipe Depth ft		
			Collar Depth 1887.8 ft		Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/01/2021	19:05:10	49	0.7	8.39	0.0	Stopped Acquisition	
10/01/2021	19:06:00	56	0.0	8.39	0.0	Start Job	
10/01/2021	19:06:16	17	2.0	8.39	0.0	PRESSURE TEST LINES	
10/01/2021	19:06:50	20	2.3	8.39	0.0		
10/01/2021	19:06:51	17	2.3	8.39	0.0	LOW 1000 HIGH 2500	
10/01/2021	19:07:40	61	2.4	8.39	0.0		
10/01/2021	19:08:30	4	0.1	8.39	0.0		
10/01/2021	19:09:20	1035	0.0	8.39	0.0		
10/01/2021	19:10:10	1000	0.0	8.39	0.0		
10/01/2021	19:11:00	984	0.0	8.39	0.0		
10/01/2021	19:11:50	2664	0.0	8.39	0.0		
10/01/2021	19:12:40	2649	0.0	8.39	0.0		
10/01/2021	19:13:30	2638	0.0	8.39	0.0		
10/01/2021	19:14:20	2496	0.0	8.39	0.0		
10/01/2021	19:15:10	5	0.0	8.39	0.0		
10/01/2021	19:16:00	-0	0.2	8.39	0.0		
10/01/2021	19:16:50	59	1.7	8.39	0.0		
10/01/2021	19:17:06	4	0.9	8.39	0.0	Start Pumping Spacer	
10/01/2021	19:17:40	-3	1.4	8.39	0.0		
10/01/2021	19:18:30	157	6.5	8.44	0.0		
10/01/2021	19:19:20	152	6.5	8.39	0.0		

Well			Field		Job Start	Customer		Job Number
ROTH A32-760 A32-760			WATTENBERG		Oct/01/2021	CHEVRON		EN82-00735
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/01/2021	19:21:00	165	6.5	8.39	0.0			
10/01/2021	19:21:42	-2	0.1	8.40	0.0	End Spacer		
10/01/2021	19:21:45	-2	0.1	8.40	0.0	Reset Vol. 30.0 bbl		
10/01/2021	19:21:50	-1	0.0	8.40	0.0			
10/01/2021	19:21:56	-1	0.0	8.40	0.0	Start Mixing Lead Slurry		
10/01/2021	19:22:40	2	0.0	8.40	0.0			
10/01/2021	19:23:30	4	0.0	8.40	0.0			
10/01/2021	19:24:20	4	0.0	8.40	0.0			
10/01/2021	19:25:10	5	0.0	8.40	0.0			
10/01/2021	19:26:00	4	0.0	8.40	0.0			
10/01/2021	19:26:50	4	0.0	8.39	0.0			
10/01/2021	19:27:40	58	3.5	12.96	0.0			
10/01/2021	19:28:30	230	4.1	12.99	0.0			
10/01/2021	19:29:20	239	6.5	12.25	0.0			
10/01/2021	19:30:10	92	4.2	12.80	0.0			
10/01/2021	19:31:50	71	3.6	13.44	0.0			
10/01/2021	19:32:40	68	3.7	13.48	0.0			
10/01/2021	19:33:30	74	3.7	13.48	0.0			
10/01/2021	19:34:20	249	6.6	13.49	0.0			
10/01/2021	19:35:10	233	6.6	13.43	0.0			
10/01/2021	19:35:45	248	6.6	13.38	0.0	13.5 PPG 1.68 YLD 8.93 H2O 558 SKS		
10/01/2021	19:36:00	241	6.6	13.34	0.0			
10/01/2021	19:36:50	248	6.6	13.31	0.0			
10/01/2021	19:37:40	252	6.4	13.36	0.0			
10/01/2021	19:38:30	229	6.5	13.33	0.0			
10/01/2021	19:39:20	169	5.3	13.50	0.0			
10/01/2021	19:40:10	165	5.1	13.43	0.0			
10/01/2021	19:41:00	177	5.3	13.46	0.0			
10/01/2021	19:41:50	162	5.3	13.52	0.0			
10/01/2021	19:42:40	158	5.3	13.54	0.0			
10/01/2021	19:43:30	165	5.3	13.54	0.0			
10/01/2021	19:44:20	254	6.6	13.51	0.0			
10/01/2021	19:45:10	243	6.6	13.47	0.0			
10/01/2021	19:46:00	248	6.5	13.45	0.0			
10/01/2021	19:46:50	237	6.6	13.47	0.0			
10/01/2021	19:47:40	253	6.6	13.51	0.0			
10/01/2021	19:48:30	245	6.6	13.51	0.0			
10/01/2021	19:49:20	244	6.6	13.49	0.0			
10/01/2021	19:50:10	246	6.6	13.45	0.0			
10/01/2021	19:51:00	254	6.6	13.41	0.0			
10/01/2021	19:51:50	240	6.5	13.38	0.0			
10/01/2021	19:52:40	268	6.5	13.40	0.0			
10/01/2021	19:53:30	248	6.6	13.41	0.0			
10/01/2021	19:54:20	253	6.6	13.41	0.0			
10/01/2021	19:55:10	251	6.6	13.39	0.0			
10/01/2021	19:56:00	260	6.6	13.28	0.0			
10/01/2021	19:56:19	7	2.2	14.42	0.0	End Lead Slurry		
10/01/2021	19:56:42	-4	0.0	14.26	0.0	Reset Vol. 167.0 bbl		
10/01/2021	19:56:50	-5	0.0	14.21	0.0			
10/01/2021	19:57:40	-7	0.0	13.72	0.0			
10/01/2021	19:58:14	-7	0.0	13.65	0.0	Start Mixing Tail Slurry		
10/01/2021	19:58:30	-8	0.0	13.64	0.0			
10/01/2021	19:59:20	-6	0.0	13.60	0.0			
10/01/2021	20:00:10	-7	0.0	13.56	0.0			

Well			Field		Job Start	Customer		Job Number
ROTH A32-760 A32-760			WATTENBERG		Oct/01/2021	CHEVRON		EN82-00735
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/01/2021	20:01:50	-7	0.0	13.52	0.0			
10/01/2021	20:02:40	-7	0.0	13.50	0.0			
10/01/2021	20:03:30	-6	0.0	13.48	0.0			
10/01/2021	20:04:20	-7	0.1	13.41	0.0			
10/01/2021	20:04:41	8	0.1	13.40	0.0	14.8 PPG 1.25 YLD 5.79 H2O 115 SKS		
10/01/2021	20:05:10	38	1.2	14.69	0.0			
10/01/2021	20:06:00	147	4.5	14.49	0.0			
10/01/2021	20:06:50	139	4.6	14.50	0.0			
10/01/2021	20:07:40	25	2.1	14.54	0.0			
10/01/2021	20:08:30	29	2.3	14.53	0.0			
10/01/2021	20:09:20	27	2.2	14.64	0.0			
10/01/2021	20:10:10	27	2.2	14.71	0.0			
10/01/2021	20:11:00	30	2.2	14.71	0.0			
10/01/2021	20:11:50	108	4.0	14.67	0.0			
10/01/2021	20:12:40	106	4.0	14.76	0.0			
10/01/2021	20:13:25	-8	0.1	14.91	0.0	End Tail Slurry		
10/01/2021	20:13:30	-7	0.0	14.90	0.0			
10/01/2021	20:13:42	-8	0.0	14.88	0.0	Reset Vol. 25.5 bbl		
10/01/2021	20:14:20	-2	0.0	14.84	0.0			
10/01/2021	20:15:10	-1	0.0	14.47	0.0			
10/01/2021	20:16:00	-5	0.0	14.36	0.0			
10/01/2021	20:16:50	-3	0.0	13.91	0.0			
10/01/2021	20:17:40	-1	0.0	13.53	0.0			
10/01/2021	20:18:30	-2	0.0	9.91	0.0			
10/01/2021	20:19:20	-3	0.2	9.83	0.0			
10/01/2021	20:20:10	-2	0.0	9.76	0.0			
10/01/2021	20:21:00	-4	0.0	9.73	0.0			
10/01/2021	20:21:12	1	0.3	8.66	0.0	Drop Top Plug		
10/01/2021	20:21:17	2	0.3	8.59	0.0	Start Displacement		
10/01/2021	20:21:50	61	4.2	9.25	0.0			
10/01/2021	20:22:40	79	4.8	9.57	0.0			
10/01/2021	20:23:30	67	4.8	8.70	0.0			
10/01/2021	20:24:20	69	4.8	8.82	0.0			
10/01/2021	20:25:10	68	4.8	8.65	0.0			
10/01/2021	20:26:00	70	4.8	8.41	0.0			
10/01/2021	20:26:50	133	6.6	8.39	0.0			
10/01/2021	20:27:40	136	6.6	8.39	0.0			
10/01/2021	20:28:30	124	6.6	8.44	0.0			
10/01/2021	20:29:20	145	6.6	8.40	0.0			
10/01/2021	20:30:10	134	6.6	8.39	0.0			
10/01/2021	20:31:00	275	8.4	8.40	0.0			
10/01/2021	20:31:50	298	8.2	8.39	0.0			
10/01/2021	20:32:40	350	8.3	8.39	0.0			
10/01/2021	20:33:30	387	8.3	8.39	0.0			
10/01/2021	20:34:20	441	8.3	8.39	0.0			
10/01/2021	20:35:10	487	8.3	8.39	0.0			
10/01/2021	20:36:00	528	8.3	8.39	0.0			
10/01/2021	20:36:50	577	8.3	8.39	0.0			
10/01/2021	20:37:40	629	8.3	8.39	0.0			
10/01/2021	20:38:30	659	8.3	8.40	0.0			
10/01/2021	20:39:20	709	8.3	8.39	0.0			
10/01/2021	20:41:00	499	3.3	8.40	0.0			
10/01/2021	20:41:50	507	3.3	8.39	0.0			
10/01/2021	20:42:40	536	3.3	8.39	0.0			

Well			Field		Job Start	Customer		Job Number
ROTH A32-760 A32-760			WATTENBERG		Oct/01/2021	CHEVRON		EN82-00735
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/01/2021	20:44:20	559	3.3	8.39	0.0			
10/01/2021	20:45:10	551	3.3	8.39	0.0			
10/01/2021	20:46:00	566	3.3	8.39	0.0			
10/01/2021	20:46:47	1131	0.0	8.39	0.0	End Displacement		
10/01/2021	20:46:50	1120	0.0	8.39	0.0			
10/01/2021	20:46:55	1129	0.0	8.39	0.0	Reset Vol. 143.6 bbl		
10/01/2021	20:47:40	1125	0.0	8.39	0.0			
10/01/2021	20:48:30	1126	0.0	8.39	0.0			
10/01/2021	20:49:20	1127	0.0	8.39	0.0			
10/01/2021	20:50:10	1128	0.0	8.39	0.0			
10/01/2021	20:51:00	1130	0.0	8.39	0.0			
10/01/2021	20:51:50	1131	0.0	8.40	0.0			
10/01/2021	20:52:40	1133	0.0	8.39	0.0			
10/01/2021	20:53:30	1135	0.0	8.39	0.0			
10/01/2021	20:54:20	1134	0.0	8.39	0.0			
10/01/2021	20:55:10	1137	0.0	8.40	0.0			
10/01/2021	20:56:00	1136	0.0	8.40	0.0			
10/01/2021	20:56:50	1136	0.0	8.40	0.0			
10/01/2021	20:57:40	1138	0.0	8.40	0.0			
10/01/2021	20:58:30	1140	0.0	8.40	0.0			
10/01/2021	20:59:20	1140	0.0	8.40	0.0			
10/01/2021	21:00:10	1139	0.0	8.40	0.0			
10/01/2021	21:00:43	1139	0.0	8.40	0.0	FLOATS HELD 1 BBL BACK		
10/01/2021	21:00:44	1140	0.0	8.40	0.0	27 BBL CEMENT TO SURFACE		
10/01/2021	21:01:00	1140	0.0	8.40	0.0			
10/01/2021	21:01:50	1141	0.0	8.40	0.0			
10/01/2021	21:02:40	1142	0.0	8.40	0.0			
10/01/2021	21:03:30	1	0.0	8.40	0.0			
10/01/2021	21:04:20	0	0.0	8.40	0.0			
10/01/2021	21:05:10	2	0.0	8.40	0.0			
10/01/2021	21:06:00	0	0.0	8.40	0.0			
10/01/2021	21:06:50	-1	0.0	8.40	0.0			
10/01/2021	21:07:40	-1	0.0	8.40	0.0			
10/01/2021	21:08:30	0	0.0	8.39	0.0			
10/01/2021	21:10:10	43	3.8	8.39	0.0			
10/01/2021	21:10:16	41	3.8	8.40	0.0	WASH UP CELLAR 10 BBL H2O		
10/01/2021	21:11:00	43	3.8	8.40	0.0			
10/01/2021	21:11:50	44	3.8	8.40	0.0			
10/01/2021	21:12:40	-3	0.0	8.40	0.0			
10/01/2021	21:13:30	-1	0.0	8.40	0.0			
10/01/2021	21:14:20	418	7.6	8.39	0.0			
10/01/2021	21:15:10	204	5.2	8.39	0.0			

Well ROTH A32-760 A32-760	Field WATTENBERG	Job Start Oct/01/2021	Customer CHEVRON	Job Number EN82-00735
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 4.1	N2		Mud	Maximum Rate 8.5	Total Slurry 0.0	Mud 0.0	Spacer 0.0		N2	
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2683	Final 3	Average 395	Bump Plug to 1140	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.9 bbl		Displacement 0.0 bbl		Mix Water Temp 78 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 27.0 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"/>
								-		-