



Cementing Service Report

				Customer CHEVRON		Job Number EN82-00733	
Well ROTH A31-720 A31-720		Location (legal) ROTH PAD		Schlumberger Location CHEYENNE		Job Start Oct/03/2021	
Field WATTENBERG		Formation Name/Type Dirty-Sandstone		Deviation 0 deg	Bit Size 13.5 in	Well MD 1937.0 ft	Well TVD 1937.0 ft
County WELD COUNTY		State/Province Colorado		BHP psi	BHST 120 degF	BHCT 91 degF	Pore Press. Gradient lb/gal
Well Master 0066094875		API/UWI 05-123-51329-00-00					
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	1927.4	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
			ft	ft			
			ft	ft			Diameter in
			ft	ft			
			Treat Down Casing	Displacement 143.2 bbl	Packer Type	Packer Depth ft	
			Tubing Vol. bbl	Casing Vol. 146.7 bbl	Annular Vol. 10.9 bbl	Openhole Vol. 158.3 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 610 psi		Shoe Type Float	Squeeze Type				
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 1927.4 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/03/2021 21:15	Arrived on Location Oct/03/2021 21:15	Leave Location Oct/04/2021 00:15	Collar Type Float	Tail Pipe Depth ft			
			Collar Depth 1882.4 ft	Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/03/2021	21:51:21	-1	0.0	8.38	0.0	Started Acquisition	
10/03/2021	21:52:05	-1	0.0	8.38	0.0	Start Job	
10/03/2021	21:52:11	-1	0.0	8.38	0.0		
10/03/2021	21:53:01	-3	0.0	8.38	0.0		
10/03/2021	21:53:51	-3	0.0	8.38	0.0		
10/03/2021	21:54:41	-3	0.0	8.38	0.0		
10/03/2021	21:55:31	54	1.7	8.37	0.0	PRESSURE TEST	
10/03/2021	21:56:21	-4	0.4	8.38	0.0		
10/03/2021	21:57:11	114	4.6	8.37	0.0		
10/03/2021	21:58:01	841	0.0	8.37	0.0		
10/03/2021	21:58:51	991	0.0	8.37	0.0		
10/03/2021	21:59:41	2902	0.0	8.38	0.0		
10/03/2021	22:00:31	2861	0.0	8.37	0.0		
10/03/2021	22:01:21	2836	0.0	8.38	0.0		
10/03/2021	22:02:11	2805	0.0	8.38	0.0		
10/03/2021	22:03:01	2719	0.0	8.37	0.0		
10/03/2021	22:03:51	-4	0.0	8.37	0.0		
10/03/2021	22:04:07	-3	0.1	8.37	0.0	Start Pumping Spacer	
10/03/2021	22:04:41	19	2.0	8.37	0.0		
10/03/2021	22:05:31	207	4.9	8.38	0.0		
10/03/2021	22:06:21	225	6.5	8.38	0.0		

Well			Field		Job Start		Customer		Job Number	
ROTH A31-720 A31-720			WATTENBERG		Oct/03/2021		CHEVRON		EN82-00733	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/03/2021	22:08:01	230	6.6	8.37	0.0					
10/03/2021	22:08:49	-1	4.8	8.38	0.0	End Spacer				
10/03/2021	22:08:51	-1	3.0	8.38	0.0					
10/03/2021	22:08:57	-2	0.3	8.38	0.0	Reset Total, Vol = 30.2 bbl				
10/03/2021	22:09:41	1	0.0	8.37	0.0					
10/03/2021	22:10:15	2	0.0	8.37	0.0	Start Mixing Lead Slurry				
10/03/2021	22:10:31	3	0.0	8.37	0.0					
10/03/2021	22:11:21	1	0.0	8.37	0.0					
10/03/2021	22:12:11	2	0.0	8.37	0.0					
10/03/2021	22:13:01	2	0.0	8.37	0.0					
10/03/2021	22:13:51	7	2.0	13.35	0.0					
10/03/2021	22:14:41	215	4.6	13.41	0.0					
10/03/2021	22:15:31	205	4.6	13.55	0.0					
10/03/2021	22:16:21	190	4.6	13.50	0.0					
10/03/2021	22:17:11	367	6.5	13.48	0.0					
10/03/2021	22:18:01	368	6.4	13.47	0.0					
10/03/2021	22:18:51	355	6.4	13.45	0.0					
10/03/2021	22:19:41	357	6.5	13.43	0.0					
10/03/2021	22:20:31	367	6.5	13.42	0.0					
10/03/2021	22:21:21	362	6.5	13.40	0.0					
10/03/2021	22:22:11	356	6.5	13.38	0.0					
10/03/2021	22:23:01	353	6.5	13.38	0.0					
10/03/2021	22:23:51	369	6.5	13.43	0.0					
10/03/2021	22:24:41	367	6.5	13.45	0.0					
10/03/2021	22:25:20	369	6.5	13.46	0.0	13.5 PPG 1.68 YLD 8.93 H2O 556 SKS				
10/03/2021	22:25:31	363	6.5	13.46	0.0					
10/03/2021	22:26:21	361	6.5	13.46	0.0					
10/03/2021	22:27:11	375	6.5	13.44	0.0					
10/03/2021	22:28:01	373	6.5	13.42	0.0					
10/03/2021	22:28:51	362	6.5	13.45	0.0					
10/03/2021	22:29:41	365	6.5	13.46	0.0					
10/03/2021	22:30:31	374	6.5	13.44	0.0					
10/03/2021	22:31:21	376	6.5	13.40	0.0					
10/03/2021	22:32:11	362	6.5	13.39	0.0					
10/03/2021	22:33:51	362	6.5	13.30	0.0					
10/03/2021	22:34:41	356	6.5	13.25	0.0					
10/03/2021	22:35:31	356	6.5	13.37	0.0					
10/03/2021	22:36:21	368	6.5	13.40	0.0					
10/03/2021	22:37:11	373	6.5	13.35	0.0					
10/03/2021	22:38:01	368	6.5	13.28	0.0					
10/03/2021	22:38:51	217	6.5	12.86	0.0					
10/03/2021	22:39:41	266	5.3	13.24	0.0					
10/03/2021	22:40:31	261	5.3	13.25	0.0					
10/03/2021	22:41:21	-14	0.9	13.28	0.0					
10/03/2021	22:41:37	-12	0.0	13.27	0.0	End Lead Slurry				
10/03/2021	22:41:39	-11	0.0	13.27	0.0	Reset Total, Vol = 166.5 bbl				
10/03/2021	22:41:46	-11	0.0	13.27	0.0	Start Mixing Tail Slurry				
10/03/2021	22:42:11	-11	0.0	13.26	0.0					
10/03/2021	22:43:01	-9	0.0	13.26	0.0					
10/03/2021	22:43:51	-11	0.0	13.29	0.0					
10/03/2021	22:44:41	-9	0.0	13.29	0.0					
10/03/2021	22:45:31	-10	0.0	13.29	0.0					
10/03/2021	22:46:21	-9	0.0	13.29	0.0					
10/03/2021	22:47:11	-8	0.0	13.30	0.0					

Well			Field		Job Start	Customer		Job Number
ROTH A31-720 A31-720			WATTENBERG		Oct/03/2021	CHEVRON		EN82-00733
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/03/2021	22:48:21	80	1.2	14.68	0.0	14.8 PPG 1.25 YLD 5.79 H2O 103 SKS		
10/03/2021	22:48:51	234	4.6	14.95	0.0			
10/03/2021	22:49:41	232	4.6	14.64	0.0			
10/03/2021	22:50:31	227	4.6	14.67	0.0			
10/03/2021	22:51:21	224	4.6	14.67	0.0			
10/03/2021	22:52:11	223	4.6	14.66	0.0			
10/03/2021	22:53:00	215	4.6	14.72	0.0	End Tail Slurry		
10/03/2021	22:53:01	232	4.6	14.72	0.0			
10/03/2021	22:53:31	210	4.6	14.72	0.0	Reset Total, Vol = 26.0 bbl		
10/03/2021	22:53:51	-1	2.2	14.90	0.0			
10/03/2021	22:54:41	-8	0.0	14.79	0.0			
10/03/2021	22:55:31	-7	0.0	14.71	0.0			
10/03/2021	22:56:21	-3	0.0	14.71	0.0			
10/03/2021	22:57:11	-3	0.0	14.71	0.0			
10/03/2021	22:57:53	-2	0.0	14.70	0.0	Drop Top Plug		
10/03/2021	22:58:01	-3	0.0	14.51	0.0			
10/03/2021	22:58:51	-3	0.0	14.48	0.0			
10/03/2021	22:59:41	-4	0.0	14.34	0.0			
10/03/2021	23:00:31	-2	0.0	10.80	0.0			
10/03/2021	23:01:21	-3	0.0	10.65	0.0			
10/03/2021	23:01:46	-2	0.0	10.45	0.0	Start Displacement		
10/03/2021	23:03:01	120	4.7	9.69	0.0			
10/03/2021	23:03:51	113	4.6	8.95	0.0			
10/03/2021	23:04:41	96	4.6	8.37	0.0			
10/03/2021	23:05:31	105	4.7	8.94	0.0			
10/03/2021	23:06:21	103	4.7	8.37	0.0			
10/03/2021	23:07:11	90	4.7	8.37	0.0			
10/03/2021	23:08:01	93	4.6	8.37	0.0			
10/03/2021	23:08:51	94	4.6	8.37	0.0			
10/03/2021	23:09:41	88	4.7	8.40	0.0			
10/03/2021	23:10:31	90	4.7	8.36	0.0			
10/03/2021	23:11:21	84	4.6	8.39	0.0			
10/03/2021	23:12:11	195	6.5	8.66	0.0			
10/03/2021	23:13:01	237	6.6	8.37	0.0			
10/03/2021	23:13:51	406	8.4	8.37	0.0			
10/03/2021	23:14:41	452	8.3	8.37	0.0			
10/03/2021	23:15:31	495	8.3	8.37	0.0			
10/03/2021	23:16:21	548	8.3	8.37	0.0			
10/03/2021	23:17:11	583	8.3	8.37	0.0			
10/03/2021	23:18:01	635	8.3	8.37	0.0			
10/03/2021	23:18:51	672	8.3	8.37	0.0			
10/03/2021	23:19:41	718	8.3	8.37	0.0			
10/03/2021	23:20:31	776	8.3	8.37	0.0			
10/03/2021	23:21:21	776	8.3	8.37	0.0			
10/03/2021	23:22:11	518	3.3	8.37	0.0			
10/03/2021	23:22:27	547	3.3	8.37	0.0	30 BBL CEMENT TO SURFACE		
10/03/2021	23:23:01	552	3.3	8.37	0.0			
10/03/2021	23:23:51	552	3.3	8.37	0.0			
10/03/2021	23:24:41	553	3.3	8.37	0.0			
10/03/2021	23:25:31	563	3.3	8.37	0.0			
10/03/2021	23:26:21	622	3.3	8.37	0.0			
10/03/2021	23:27:11	613	3.3	8.37	0.0			
10/03/2021	23:28:01	1117	0.1	8.37	0.0			
10/03/2021	23:28:34	1130	0.0	8.37	0.0	Bump Top Plug		

Well			Field		Job Start	Customer	Job Number
ROTH A31-720 A31-720			WATTENBERG		Oct/03/2021	CHEVRON	EN82-00733
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/03/2021	23:28:45	1134	0.0	8.37	0.0	Reset Total, Vol = 143.2 bbl	
10/03/2021	23:28:51	1131	0.0	8.37	0.0		
10/03/2021	23:29:41	1133	0.0	8.37	0.0		
10/03/2021	23:30:31	1132	0.0	8.37	0.0		
10/03/2021	23:31:21	1134	0.0	8.37	0.0		
10/03/2021	23:32:11	1136	0.0	8.37	0.0		
10/03/2021	23:33:01	1136	0.0	8.37	0.0		
10/03/2021	23:33:51	1136	0.0	8.37	0.0		
10/03/2021	23:33:54	1137	0.0	8.37	0.0	TOP OF TAIL 1639'	
10/03/2021	23:34:41	1137	0.0	8.37	0.0		
10/03/2021	23:35:31	1137	0.0	8.37	0.0		
10/03/2021	23:36:21	1137	0.0	8.37	0.0		
10/03/2021	23:37:11	1140	0.0	8.38	0.0		
10/03/2021	23:38:01	1139	0.0	8.37	0.0		
10/03/2021	23:38:51	1141	0.0	8.38	0.0		
10/03/2021	23:39:41	1142	0.0	8.38	0.0		
10/03/2021	23:40:31	1141	0.0	8.37	0.0		
10/03/2021	23:41:21	1140	0.0	8.37	0.0		
10/03/2021	23:42:11	1141	0.0	8.37	0.0		
10/03/2021	23:43:01	1133	0.0	8.37	0.0		
10/03/2021	23:43:51	-0	0.0	8.38	0.0		
10/03/2021	23:43:53	-1	0.0	8.38	0.0	FLOATS HELD 1 BBL BACK	
10/03/2021	23:44:41	-3	0.0	8.38	0.0		
10/03/2021	23:45:31	-4	0.0	8.38	0.0		
10/03/2021	23:46:21	-7	0.0	8.38	0.0		
10/03/2021	23:47:11	-5	0.0	8.37	0.0		
10/03/2021	23:48:01	-5	0.0	8.37	0.0		
10/03/2021	23:48:51	-6	0.0	8.37	0.0		
10/03/2021	23:49:41	-5	0.0	8.38	0.0		
10/03/2021	23:50:31	23	2.4	8.38	0.0		
10/03/2021	23:50:54	24	2.5	8.38	0.0	WASH OUT CELLER 10 BBL	
10/03/2021	23:51:21	29	2.7	8.38	0.0		
10/03/2021	23:52:11	29	2.7	8.38	0.0		
10/03/2021	23:53:01	30	2.6	8.37	0.0		
10/03/2021	23:53:51	31	2.6	8.38	0.0		
10/03/2021	23:54:41	-7	0.0	8.38	0.0		
10/03/2021	23:55:31	-6	0.0	8.38	0.0		
10/03/2021	23:55:42	-6	0.0	8.38	0.0	End Job	

Well ROTH A31-720 A31-720	Field WATTENBERG	Job Start Oct/03/2021	Customer CHEVRON	Job Number EN82-00733
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 5.0	N2		Mud	Maximum Rate 8.4	Total Slurry 0.0	Mud 0.0		Spacer 0.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2932	Final -7	Average 522	Bump Plug to 1130	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 186.6 bbl		Displacement 0.0 bbl		Mix Water Temp 75 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 30.0 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"/>
								-		-	

Well ROTH A31-720
Field WATTENBERG
Engineer ZACHARY BUCK
Country United States

Client CHEVRON
SIR No. EN82-00733
Job Type SURFACE
Job Date 10-03-2021

