

Cementing Service Report

				Customer CHEVRON			Job Number EN82-00734	
Well ROTH A31-730 0066115298			Location (legal) ROTH PAD		Schlumberger Location CHEYENNE		Job Start Oct/04/2021	
Field WATTENBERG		Formation Name/Type Dirty-Sandstone		Deviation 0 deg	Bit Size 13.5 in	Well MD 1955.0 ft		Well TVD 1955.0 ft
County WELD COUNTY		State/Province Colorado		BHP psi	BHST 120 degF	BHCT 91 degF		Pore Press. Gradient lb/gal
Well Mast 05-123-51331-00-00		API/UWI 05-123-51331-00-00						
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	1944.3	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
			ft	ft				
			ft	ft				Diameter in
			Treat Down Casing	Displacement 146.9 bbl	Packer Type		Packer Depth ft	
			Tubing Vol. bbl	Casing Vol. 150.3 bbl	Annular Vol. 10.9 bbl		Openhole Vol. 162.4 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 485 psi				Shoe Type Float			Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1944.3 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/04/2021 09:30		Arrived on Location Oct/04/2021 09:30		Leave Location Oct/04/2021 14:30		Collar Type Float		Tail Pipe Depth ft
						Collar Depth 1899.9 ft		Sqz. Total Vol. bbl
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/04/2021	11:38:15	0	0.6	8.38	0.0	Started Acquisition		
10/04/2021	11:38:28	12	1.0	8.38	0.0	Start Job		
10/04/2021	11:39:05	37	0.3	8.38	0.0			
10/04/2021	11:39:55	149	4.6	8.37	0.0			
10/04/2021	11:40:45	13	0.0	8.38	0.0			
10/04/2021	11:41:28	17	0.0	8.38	0.0	PRESSURE TEST LINES		
10/04/2021	11:41:29	17	0.0	8.38	0.0	LOW 1000 HIGH 2500		
10/04/2021	11:41:35	16	0.0	8.38	0.0			
10/04/2021	11:42:25	915	0.0	8.38	0.0			
10/04/2021	11:43:15	2730	0.0	8.38	0.0			
10/04/2021	11:44:05	2707	0.0	8.38	0.0			
10/04/2021	11:44:55	2693	0.0	8.38	0.0			
10/04/2021	11:45:45	2683	0.0	8.38	0.0			
10/04/2021	11:46:35	2585	0.0	8.38	0.0			
10/04/2021	11:47:25	9	0.0	8.38	0.0			
10/04/2021	11:48:15	9	0.0	8.38	0.0			
10/04/2021	11:49:05	18	0.7	8.38	0.0			
10/04/2021	11:49:28	82	3.4	8.37	0.0	Start Pumping Spacer		
10/04/2021	11:49:55	271	5.0	8.38	0.0			
10/04/2021	11:50:45	281	6.5	8.37	0.0			
10/04/2021	11:51:35	281	6.5	8.37	0.0			

Well			Field		Job Start	Customer		Job Number
ROTH A31-730 0066115298			WATTENBERG		Oct/04/2021	CHEVRON		EN82-00734
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/04/2021	11:53:15	4	0.4	8.38	0.0			
10/04/2021	11:54:05	9	0.0	8.37	0.0			
10/04/2021	11:54:28	7	0.0	8.37	0.0	End Spacer		
10/04/2021	11:54:55	8	0.0	8.38	0.0			
10/04/2021	11:55:07	10	0.0	8.37	0.0	Reset Total, Vol = 30.16 bbl		
10/04/2021	11:55:45	14	0.0	8.37	0.0			
10/04/2021	11:56:35	14	0.0	8.37	0.0			
10/04/2021	11:57:25	13	0.0	8.37	0.0			
10/04/2021	11:58:15	11	0.0	8.37	0.0			
10/04/2021	11:58:28	11	0.0	8.37	0.0	Start Mixing Lead Slurry		
10/04/2021	11:59:05	13	0.0	8.37	0.0			
10/04/2021	11:59:55	63	0.5	13.52	0.0			
10/04/2021	12:00:45	265	4.6	13.41	0.0			
10/04/2021	12:01:35	252	4.6	13.45	0.0			
10/04/2021	12:02:25	250	4.6	13.45	0.0			
10/04/2021	12:03:15	331	4.6	13.44	0.0			
10/04/2021	12:04:05	475	6.5	13.44	0.0			
10/04/2021	12:04:55	467	6.5	13.42	0.0			
10/04/2021	12:05:45	460	6.5	13.41	0.0			
10/04/2021	12:06:35	467	6.4	13.43	0.0			
10/04/2021	12:07:25	477	6.5	13.45	0.0			
10/04/2021	12:08:15	483	6.5	13.43	0.0			
10/04/2021	12:09:05	461	6.5	13.41	0.0			
10/04/2021	12:09:55	465	6.5	13.39	0.0			
10/04/2021	12:10:28	485	6.5	13.40	0.0	13.5 PPG 1.68 YLD 8.93 H2O 580 SKS		
10/04/2021	12:10:45	470	6.5	13.40	0.0			
10/04/2021	12:11:35	480	6.5	13.37	0.0			
10/04/2021	12:12:25	465	6.5	13.39	0.0			
10/04/2021	12:13:15	459	6.5	13.40	0.0			
10/04/2021	12:14:05	482	6.5	13.39	0.0			
10/04/2021	12:14:55	485	6.4	13.43	0.0			
10/04/2021	12:15:45	472	6.4	13.48	0.0			
10/04/2021	12:16:35	462	6.5	13.43	0.0			
10/04/2021	12:17:25	479	6.5	13.44	0.0			
10/04/2021	12:18:15	481	6.5	13.40	0.0			
10/04/2021	12:19:05	491	6.5	13.36	0.0			
10/04/2021	12:19:55	459	6.5	13.37	0.0			
10/04/2021	12:20:45	488	6.5	13.36	0.0			
10/04/2021	12:21:35	477	6.5	13.34	0.0			
10/04/2021	12:22:25	470	6.5	13.35	0.0			
10/04/2021	12:23:15	463	6.5	13.35	0.0			
10/04/2021	12:24:05	475	6.5	13.33	0.0			
10/04/2021	12:24:55	490	6.5	13.42	0.0			
10/04/2021	12:25:45	482	6.5	13.26	0.0			
10/04/2021	12:26:35	260	4.6	13.41	0.0			
10/04/2021	12:27:25	99	2.7	13.41	0.0			
10/04/2021	12:28:15	98	2.7	13.40	0.0			
10/04/2021	12:29:05	103	2.7	13.77	0.0			
10/04/2021	12:29:28	104	2.7	13.99	0.0	End Lead Slurry		
10/04/2021	12:29:35	104	2.7	14.02	0.0	Reset Total, Vol = 173.69 bbl		
10/04/2021	12:29:55	108	2.6	14.17	0.0			
10/04/2021	12:30:28	107	2.6	14.25	0.0	Start Mixing Tail Slurry		
10/04/2021	12:30:45	106	2.6	14.29	0.0			
10/04/2021	12:31:35	94	2.3	14.38	0.0			

Well			Field		Job Start		Customer		Job Number	
ROTH A31-730 0066115298			WATTENBERG		Oct/04/2021		CHEVRON		EN82-00734	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/04/2021	12:33:15	97	2.4	14.46	0.0					
10/04/2021	12:34:05	106	2.6	14.44	0.0					
10/04/2021	12:34:55	105	2.6	14.45	0.0					
10/04/2021	12:35:45	101	2.5	14.52	0.0					
10/04/2021	12:36:35	170	3.2	14.54	0.0					
10/04/2021	12:37:28	20	1.5	14.78	0.0	14.8 PPG 1.33 YLD 6.37 H2O 95 SKS				
10/04/2021	12:38:15	8	0.0	14.63	0.0					
10/04/2021	12:38:28	9	0.0	14.62	0.0	End Tail Slurry				
10/04/2021	12:39:01	10	0.0	14.52	0.0	Reset Total, Vol = 22.48 bbl				
10/04/2021	12:39:05	9	0.0	14.52	0.0					
10/04/2021	12:39:55	2	0.0	14.52	0.0					
10/04/2021	12:40:45	1	0.0	14.46	0.0					
10/04/2021	12:41:35	-1	0.0	10.17	0.0					
10/04/2021	12:42:25	-0	0.0	10.57	0.0					
10/04/2021	12:43:15	-1	0.0	10.28	0.0					
10/04/2021	12:44:05	-2	0.0	10.69	0.0					
10/04/2021	12:44:55	1	0.0	9.86	0.0					
10/04/2021	12:45:45	-1	0.0	9.46	0.0					
10/04/2021	12:46:35	-1	0.0	9.11	0.0					
10/04/2021	12:47:25	2	0.0	8.99	0.0					
10/04/2021	12:48:15	1	0.0	8.79	0.0					
10/04/2021	12:48:28	2	0.1	8.74	0.0	Drop Top Plug				
10/04/2021	12:49:05	1	0.1	8.65	0.0					
10/04/2021	12:49:28	-0	0.1	8.61	0.0	RIG DISPLACES 147.2 BBL OBM				
10/04/2021	12:49:55	-1	0.1	8.59	0.0					
10/04/2021	12:50:45	-1	0.2	8.55	0.0					
10/04/2021	12:51:35	-1	0.2	8.55	0.0					
10/04/2021	12:52:25	-1	0.2	8.55	0.0					
10/04/2021	12:53:15	72	1.7	9.14	0.0					
10/04/2021	12:53:28	146	4.6	9.32	0.0	WASH UP				
10/04/2021	12:54:05	141	4.7	9.41	0.0					
10/04/2021	12:54:55	136	4.7	9.07	0.0					
10/04/2021	12:55:45	134	4.6	8.93	0.0					
10/04/2021	12:56:35	100	4.6	8.54	0.0					
10/04/2021	12:57:25	55	3.0	8.40	0.0					
10/04/2021	12:58:15	55	2.5	8.33	0.0					
10/04/2021	12:59:05	56	3.1	8.39	0.0					
10/04/2021	12:59:55	54	3.1	8.36	0.0					
10/04/2021	13:00:45	0	0.0	8.38	0.0					
10/04/2021	13:01:35	92	0.8	8.46	0.0					
10/04/2021	13:02:25	-9	0.0	8.38	0.0					
10/04/2021	13:03:15	-4	0.0	8.37	0.0					
10/04/2021	13:04:05	-3	0.0	8.37	0.0					
10/04/2021	13:04:55	-2	0.0	8.37	0.0					
10/04/2021	13:05:45	-2	0.0	8.37	0.0					
10/04/2021	13:06:35	-2	0.0	8.37	0.0					
10/04/2021	13:07:25	-3	0.0	8.37	0.0					
10/04/2021	13:08:15	-2	0.0	8.37	0.0					
10/04/2021	13:09:05	-1	0.0	8.37	0.0					
10/04/2021	13:09:55	-1	0.0	8.37	0.0					
10/04/2021	13:10:45	-5	0.0	8.37	0.0					
10/04/2021	13:11:35	-3	0.0	8.37	0.0					
10/04/2021	13:12:25	-3	0.0	8.37	0.0					
10/04/2021	13:13:15	-1	0.0	8.37	0.0					

Well			Field		Job Start		Customer		Job Number	
ROTH A31-730 0066115298			WATTENBERG		Oct/04/2021		CHEVRON		EN82-00734	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/04/2021	13:14:55	-2	0.0	8.37	0.0					
10/04/2021	13:15:45	-1	0.0	8.37	0.0					
10/04/2021	13:16:35	0	0.0	8.37	0.0					
10/04/2021	13:17:25	0	0.0	8.37	0.0					
10/04/2021	13:18:15	-3	0.0	8.37	0.0					
10/04/2021	13:19:05	2	0.0	8.37	0.0					
10/04/2021	13:19:55	-1	0.0	8.37	0.0					
10/04/2021	13:20:28	-0	0.0	8.37	0.0	FLOATS HELD 3 BBL BACK				
10/04/2021	13:20:45	-2	0.0	8.37	0.0					
10/04/2021	13:21:35	-1	0.0	8.37	0.0					
10/04/2021	13:22:25	-2	0.0	8.37	0.0					
10/04/2021	13:23:15	-1	0.0	8.37	0.0					
10/04/2021	13:24:05	-3	0.0	8.37	0.0					
10/04/2021	13:24:55	-2	0.0	8.37	0.0					
10/04/2021	13:25:28	-2	0.0	8.37	0.0	35 BBL CEMENT TO SURFACE				
10/04/2021	13:25:45	-1	0.0	8.37	0.0					
10/04/2021	13:26:35	-2	0.0	8.37	0.0					
10/04/2021	13:27:25	-2	0.0	8.37	0.0					
10/04/2021	13:28:15	-1	0.0	8.37	0.0					
10/04/2021	13:29:05	-1	0.0	8.37	0.0					
10/04/2021	13:29:55	-2	0.0	8.37	0.0					
10/04/2021	13:30:28	-3	0.0	8.37	0.0	TOP OF TAIL 1722'				
10/04/2021	13:30:45	-1	0.0	8.37	0.0					
10/04/2021	13:31:35	-4	0.0	8.37	0.0					
10/04/2021	13:32:25	-2	0.0	8.37	0.0					
10/04/2021	13:33:15	-5	0.0	8.37	0.0					
10/04/2021	13:34:05	0	0.0	8.37	0.0					
10/04/2021	13:34:55	-3	0.0	8.37	0.0					
10/04/2021	13:35:45	-1	0.0	8.37	0.0					
10/04/2021	13:36:35	-2	0.0	8.38	0.0					
10/04/2021	13:37:25	-1	0.0	8.36	0.0					
10/04/2021	13:38:15	-0	0.1	8.36	0.0					
10/04/2021	13:38:28	57	3.0	8.36	0.0	WASH UP CELLAR				
10/04/2021	13:39:05	55	3.1	8.38	0.0					
10/04/2021	13:39:55	57	3.1	8.37	0.0					
10/04/2021	13:40:45	57	3.2	8.38	0.0					
10/04/2021	13:41:35	57	3.2	8.37	0.0					
10/04/2021	13:42:25	-9	1.6	8.38	0.0					
10/04/2021	13:43:15	-0	0.0	8.38	0.0					
10/04/2021	13:44:05	-0	0.0	8.38	0.0					
10/04/2021	13:44:55	388	6.4	8.37	0.0					
10/04/2021	13:45:45	412	8.1	8.38	0.0					
10/04/2021	13:47:25	1	0.0	8.38	0.0					
10/04/2021	13:48:15	-1	0.1	8.31	0.0					
10/04/2021	13:49:05	1	0.1	8.27	0.0					
10/04/2021	13:49:28	1	0.3	7.86	0.0	End Job				

Well ROTH A31-730 0066115298	Field WATTENBERG	Job Start Oct/04/2021	Customer CHEVRON	Job Number EN82-00734
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.7	N2		Mud	Maximum Rate 8.1	Total Slurry 196.0	Mud 0.0		Spacer 30.2	N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2759	Final 0		Average 227	Bump Plug to 1100	Breakdown		Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 186.3 bbl		Displacement 147.2 bbl		Mix Water Temp 75 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 35.0 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 A31-730
Field WATTENBERG
Engineer ZACHARY BUCK
Country USA

Client CHEVRON
SIR No. EN82-00734
Job Type SURFACE
Job Date 10/04/2021

