

Cementing Service Report

				Customer CHEVRON			Job Number EN82-00736	
Well ROTH A32-770 A32-770			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 1964.0 ft		Well TVD 1964.0 ft
County WELD COUNTY		State/Province Colorado		BHP psi	BHST 120 degF	BHCT 91 degF	Pore Press. Gradient lb/gal	
Well Master 0066287328		API/UWI 05-123-51333-00-00						
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		1954.3	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
				ft	ft			
				Treat Down Casing	Displacement 145.3 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. bbl	Casing Vol. 148.8 bbl	Annular Vol. 10.9 bbl	Openhole Vol. 160.6 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 650 psi	Shoe Type Float			Squeeze Type				
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>			Shoe Depth 1954.3 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 06:30	Arrived on Location Oct/02/2021 06:30	Leave Location Oct/02/2021 10:30		Collar Type Float		Tail Pipe Depth ft		
				Collar Depth 1909.5 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	08:09:30	-1	0.0	8.39	0.0			
10/02/2021	08:10:10	-2	0.0	8.39	0.0	Start Job		
10/02/2021	08:10:20	-3	0.0	8.39	0.0			
10/02/2021	08:11:10	-4	0.0	8.39	0.0			
10/02/2021	08:12:00	-5	0.0	8.39	0.0			
10/02/2021	08:12:50	-6	0.0	8.39	0.0			
10/02/2021	08:13:40	21	2.4	8.39	0.0			
10/02/2021	08:14:30	17	0.9	8.39	0.0			
10/02/2021	08:15:19	55	3.4	8.39	0.0	PRESSURE TEST LINES		
10/02/2021	08:15:20	57	3.4	8.39	0.0			
10/02/2021	08:15:39	54	3.4	8.39	0.0	LOW 1000 HIGH 2500		
10/02/2021	08:16:10	1	0.0	8.39	0.0			
10/02/2021	08:17:00	807	0.0	8.39	0.0			
10/02/2021	08:17:50	761	0.0	8.39	0.0			
10/02/2021	08:18:40	2659	0.0	8.39	0.0			
10/02/2021	08:19:30	2627	0.0	8.39	0.0			
10/02/2021	08:20:20	2610	0.0	8.39	0.0			
10/02/2021	08:21:10	2596	0.0	8.39	0.0			
10/02/2021	08:22:00	2584	0.0	8.39	0.0			
10/02/2021	08:22:50	-4	0.0	8.39	0.0			
10/02/2021	08:23:40	-2	0.0	8.39	0.0			

Well			Field		Job Start	Customer		Job Number
ROTH A32-770 A32-770			WATTENBERG		Oct/02/2021	CHEVRON		EN82-00736
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/02/2021	08:25:20	27	1.7	8.39	0.0			
10/02/2021	08:26:10	179	6.5	8.39	0.0			
10/02/2021	08:27:00	187	6.5	8.39	0.0			
10/02/2021	08:27:50	189	6.5	8.39	0.0			
10/02/2021	08:28:40	194	6.5	8.39	0.0			
10/02/2021	08:29:30	4	0.0	8.39	0.0			
10/02/2021	08:29:38	2	0.0	8.39	0.0	End Spacer		
10/02/2021	08:29:42	2	0.0	8.39	0.0	Reset Total, Vol = 30.50 bbl		
10/02/2021	08:30:17	-0	0.0	8.39	0.0	Start Mixing Lead Slurry		
10/02/2021	08:30:20	-0	0.0	8.39	0.0			
10/02/2021	08:31:10	2	0.0	8.39	0.0			
10/02/2021	08:32:00	3	0.0	8.39	0.0			
10/02/2021	08:32:50	4	0.0	8.39	0.0			
10/02/2021	08:33:40	2	0.0	8.39	0.0			
10/02/2021	08:34:30	4	0.0	8.39	0.0			
10/02/2021	08:35:20	2	0.0	8.39	0.0			
10/02/2021	08:36:10	1	0.0	8.39	0.0			
10/02/2021	08:37:00	37	1.9	13.13	0.0			
10/02/2021	08:37:50	159	4.6	13.11	0.0			
10/02/2021	08:38:40	96	4.4	13.12	0.0			
10/02/2021	08:39:30	104	3.8	13.39	0.0			
10/02/2021	08:40:20	101	4.4	13.44	0.0			
10/02/2021	08:41:10	80	4.1	13.49	0.0			
10/02/2021	08:42:00	99	4.1	13.57	0.0			
10/02/2021	08:42:50	86	4.1	13.49	0.0			
10/02/2021	08:43:40	119	4.6	13.45	0.0			
10/02/2021	08:44:30	255	5.7	13.36	0.0			
10/02/2021	08:45:20	189	5.3	13.29	0.0			
10/02/2021	08:45:22	211	5.3	13.29	0.0	13.5 PPG 1.68 YLD 8.93 H2O 555 SKS		
10/02/2021	08:46:10	184	5.3	13.48	0.0			
10/02/2021	08:47:00	183	5.3	13.49	0.0			
10/02/2021	08:47:50	202	5.3	13.46	0.0			
10/02/2021	08:48:40	204	5.3	13.36	0.0			
10/02/2021	08:49:30	80	3.6	13.34	0.0			
10/02/2021	08:50:20	81	3.6	13.44	0.0			
10/02/2021	08:51:10	147	4.5	13.51	0.0			
10/02/2021	08:52:00	142	4.4	13.56	0.0			
10/02/2021	08:52:50	99	4.4	13.58	0.0			
10/02/2021	08:53:40	153	4.5	13.58	0.0			
10/02/2021	08:54:30	134	4.4	13.63	0.0			
10/02/2021	08:55:20	101	4.4	13.51	0.0			
10/02/2021	08:57:00	124	4.4	13.40	0.0			
10/02/2021	08:57:50	95	4.4	13.40	0.0			
10/02/2021	08:58:40	83	3.6	13.39	0.0			
10/02/2021	08:59:30	85	3.6	13.42	0.0			
10/02/2021	09:00:20	84	3.6	13.44	0.0			
10/02/2021	09:01:10	85	3.6	13.44	0.0			
10/02/2021	09:02:00	83	3.6	13.42	0.0			
10/02/2021	09:02:50	85	3.6	13.37	0.0			
10/02/2021	09:03:40	80	3.6	13.34	0.0			
10/02/2021	09:04:30	83	3.6	13.32	0.0			
10/02/2021	09:05:20	84	3.6	13.30	0.0			
10/02/2021	09:06:10	84	3.6	13.28	0.0			
10/02/2021	09:07:00	84	3.6	13.32	0.0			

Well			Field		Job Start	Customer	Job Number
ROTH A32-770 A32-770			WATTENBERG		Oct/02/2021	CHEVRON	EN82-00736
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/02/2021	09:08:40	84	3.6	13.34	0.0		
10/02/2021	09:09:30	83	3.6	13.31	0.0		
10/02/2021	09:10:20	50	3.0	13.33	0.0		
10/02/2021	09:11:10	57	3.3	13.30	0.0		
10/02/2021	09:12:00	60	3.3	13.27	0.0		
10/02/2021	09:12:50	67	2.9	13.50	0.0		
10/02/2021	09:13:40	86	3.6	13.40	0.0		
10/02/2021	09:14:30	114	3.8	13.57	0.0		
10/02/2021	09:15:20	160	4.5	13.58	0.0		
10/02/2021	09:16:10	124	4.6	13.40	0.0		
10/02/2021	09:17:00	47	3.1	13.42	0.0		
10/02/2021	09:17:50	19	2.1	13.55	0.0		
10/02/2021	09:18:15	21	2.1	14.67	0.0	End Lead Slurry	
10/02/2021	09:18:19	23	2.1	14.69	0.0	Reset Total, Vol = 166.00 bbl	
10/02/2021	09:18:23	22	2.0	14.73	0.0	Start Mixing Tail Slurry	
10/02/2021	09:18:40	20	1.9	14.56	0.0		
10/02/2021	09:19:30	99	3.7	14.29	0.0		
10/02/2021	09:20:20	102	3.8	15.07	0.0		
10/02/2021	09:20:27	99	3.8	15.10	0.0	14.8 PPG 1.25 YLD 5.79 H2O 103 SKS	
10/02/2021	09:21:10	104	3.7	14.71	0.0		
10/02/2021	09:22:00	101	3.7	14.83	0.0		
10/02/2021	09:22:50	112	3.8	14.81	0.0		
10/02/2021	09:23:40	102	3.7	14.69	0.0		
10/02/2021	09:24:11	103	3.8	14.72	0.0	End Tail Slurry	
10/02/2021	09:24:30	101	3.8	14.70	0.0		
10/02/2021	09:26:10	-5	0.0	20.50	0.0		
10/02/2021	09:27:00	-1	0.0	19.91	0.0		
10/02/2021	09:27:50	-1	0.0	19.43	0.0		
10/02/2021	09:28:40	-3	0.0	11.16	0.0		
10/02/2021	09:29:30	-2	0.1	11.47	0.0		
10/02/2021	09:30:20	-1	0.1	10.69	0.0		
10/02/2021	09:30:23	-1	0.1	10.65	0.0	Drop Top Plug	
10/02/2021	09:30:24	-1	0.0	10.64	0.0	Start Displacement	
10/02/2021	09:31:10	11	1.4	8.73	0.0		
10/02/2021	09:32:00	7	2.0	9.58	0.0		
10/02/2021	09:32:50	80	4.5	9.55	0.0		
10/02/2021	09:33:40	68	4.5	8.43	0.0		
10/02/2021	09:34:30	65	4.5	8.39	0.0		
10/02/2021	09:35:20	68	4.5	8.95	0.0		
10/02/2021	09:36:10	66	4.3	8.42	0.0		
10/02/2021	09:37:00	139	6.2	8.39	0.0		
10/02/2021	09:37:50	90	6.2	8.39	0.0		
10/02/2021	09:38:40	181	6.3	8.42	0.0		
10/02/2021	09:39:30	144	6.3	8.39	0.0		
10/02/2021	09:40:20	211	6.5	8.29	0.0		
10/02/2021	09:41:10	267	8.4	8.39	0.0		
10/02/2021	09:42:00	316	8.3	8.39	0.0		
10/02/2021	09:42:50	356	8.3	8.39	0.0		
10/02/2021	09:43:40	397	8.4	8.39	0.0		
10/02/2021	09:44:30	447	8.3	8.39	0.0		
10/02/2021	09:45:20	501	8.3	8.39	0.0		
10/02/2021	09:46:10	536	8.3	8.39	0.0		
10/02/2021	09:47:00	573	8.3	8.39	0.0		
10/02/2021	09:47:50	629	8.3	8.39	0.0		

Well			Field		Job Start	Customer	Job Number
ROTH A32-770 A32-770			WATTENBERG		Oct/02/2021	CHEVRON	EN82-00736
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/02/2021	09:49:30	738	8.2	8.39	0.0		
10/02/2021	09:50:20	510	3.5	8.39	0.0		
10/02/2021	09:51:10	591	3.3	8.39	0.0		
10/02/2021	09:52:00	576	3.3	8.39	0.0		
10/02/2021	09:52:50	539	3.3	8.39	0.0		
10/02/2021	09:53:40	565	3.3	8.39	0.0		
10/02/2021	09:54:30	643	3.3	8.39	0.0		
10/02/2021	09:55:20	655	3.3	8.39	0.0		
10/02/2021	09:56:10	605	3.3	8.39	0.0		
10/02/2021	09:57:00	1162	0.0	8.39	0.0		
10/02/2021	09:57:50	1152	0.0	8.39	0.0		
10/02/2021	09:58:22	1153	0.0	8.39	0.0	End Displacement	
10/02/2021	09:58:40	1151	0.0	8.39	0.0		
10/02/2021	09:59:30	1154	0.0	8.39	0.0		
10/02/2021	10:00:17	1155	0.0	8.39	0.0	Reset Total, Vol = 145.3 bbl	
10/02/2021	10:00:20	1155	0.0	8.39	0.0		
10/02/2021	10:01:10	1154	0.0	8.39	0.0		
10/02/2021	10:02:00	1152	0.0	8.39	0.0		
10/02/2021	10:02:50	1155	0.0	8.39	0.0		
10/02/2021	10:03:40	1153	0.0	8.39	0.0		
10/02/2021	10:04:30	1155	0.0	8.39	0.0		
10/02/2021	10:05:20	1156	0.0	8.39	0.0		
10/02/2021	10:06:10	1157	0.0	8.39	0.0		
10/02/2021	10:07:00	1158	0.0	8.39	0.0		
10/02/2021	10:07:50	1159	0.0	8.39	0.0		
10/02/2021	10:08:40	1158	0.0	8.39	0.0		
10/02/2021	10:09:30	1157	0.0	8.39	0.0		
10/02/2021	10:10:20	1158	0.0	8.39	0.0		
10/02/2021	10:11:10	1158	0.0	8.39	0.0		
10/02/2021	10:12:00	1158	0.0	8.39	0.0		
10/02/2021	10:12:50	1156	0.0	8.39	0.0		
10/02/2021	10:13:40	1156	0.0	8.39	0.0		
10/02/2021	10:14:30	1157	0.0	8.39	0.0		
10/02/2021	10:15:00	1155	0.0	8.39	0.0	FLOATS HELD 1 BBL BACK	
10/02/2021	10:15:20	1153	0.0	8.39	0.0		
10/02/2021	10:15:48	1152	0.0	8.39	0.0	25 BBL CEMENT TO SURFACE	
10/02/2021	10:15:50	1049	0.0	8.39	0.0	TOP OF TAIL 1670'	
10/02/2021	10:16:10	-1	0.0	8.39	0.0		
10/02/2021	10:17:00	-1	0.0	8.39	0.0		
10/02/2021	10:17:50	3	0.0	8.39	0.0		
10/02/2021	10:18:40	0	0.0	8.39	0.0		
10/02/2021	10:19:30	-3	0.0	8.39	0.0		
10/02/2021	10:20:20	-3	0.0	8.39	0.0		
10/02/2021	10:21:10	-3	0.0	8.39	0.0		
10/02/2021	10:22:00	-1	0.0	8.39	0.0		
10/02/2021	10:22:50	-3	0.0	8.39	0.0		
10/02/2021	10:23:40	-3	0.0	8.39	0.0		
10/02/2021	10:24:25	-3	0.0	8.39	0.0	WASH OUT CELLAR 10 BBL	
10/02/2021	10:24:30	-3	0.0	8.39	0.0		
10/02/2021	10:25:20	19	0.9	8.39	0.0		
10/02/2021	10:26:10	26	2.7	8.39	0.0		
10/02/2021	10:26:28	25	2.7	8.39	0.0	End Job	
10/02/2021	10:27:00	27	2.8	8.39	0.0		
10/02/2021	10:27:50	28	2.8	8.39	0.0		

Well			Field		Job Start	Customer		Job Number	
ROTH A32-770 A32-770			WATTENBERG		Oct/02/2021	CHEVRON		EN82-00736	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/02/2021	10:29:30	-5	0.0	8.39	0.0				
10/02/2021	10:30:20	-5	0.0	8.39	0.0				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.1	N2	Mud	Maximum Rate 8.5		Total Slurry 189.0	Mud 0.0	Spacer 30.5	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2668	Final 0	Average 389	Bump Plug to 1150	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 186.6 bbl		Displacement 145.3 bbl	Mix Water Temp 78 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 25.0 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 A32-770
Field WATTENBERG
Engineer ZACHARY BUCK
Country United States

Client CHEVRON
SIR No. EN82-00736
Job Type SURFACE
Job Date 10-02-2021

