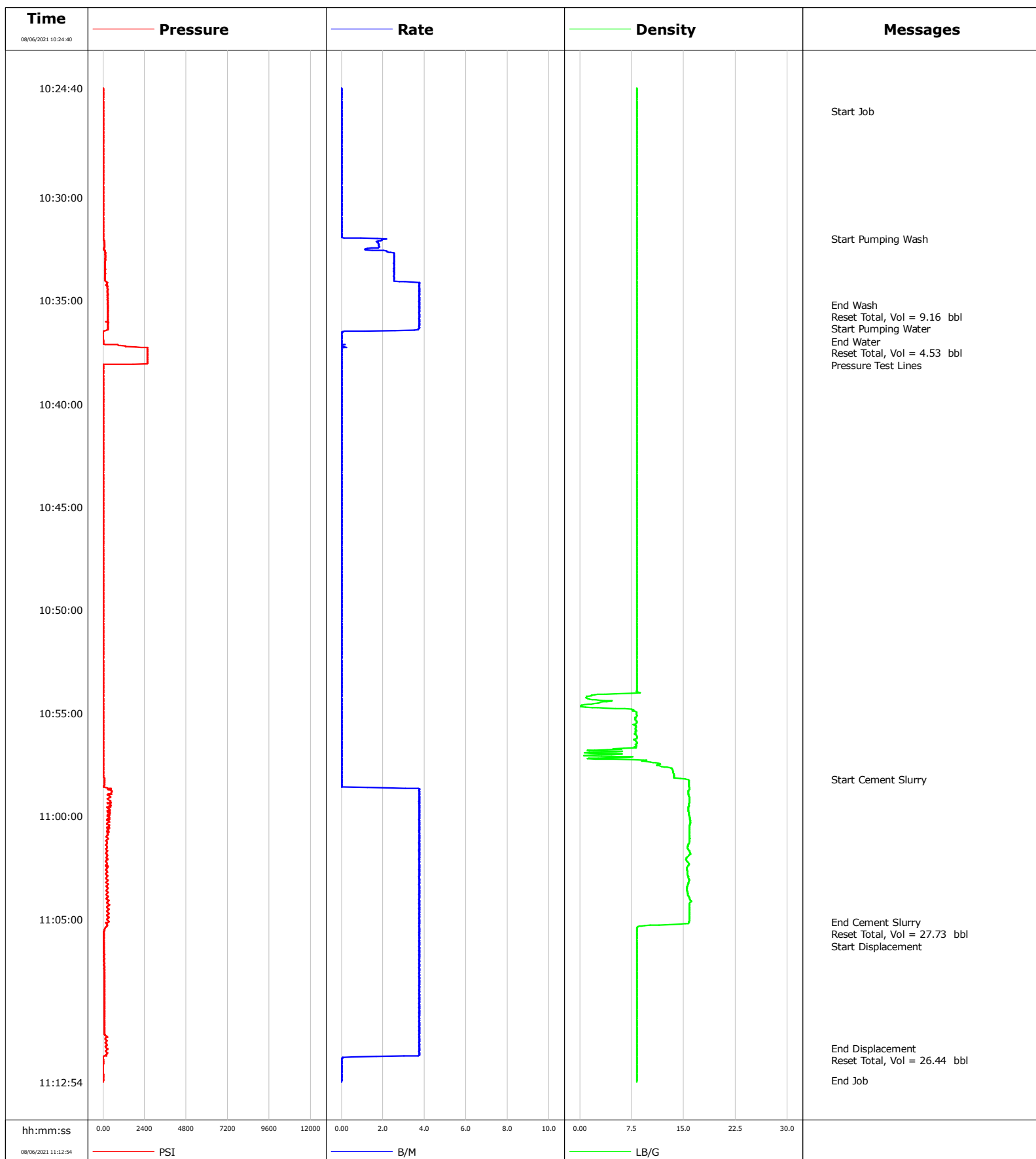


**Well** HAUCK 17-29  
**Field** Wattenburg  
**Engineer** R Pippin  
**Country** United States

**Client** OXY  
**SIR No.** EAJ7-02429  
**Job Type** Plug  
**Job Date** 08-06-2021



# Cementing Service Report

				Customer OXY			Job Number EAJ7-02429								
Well HAUCK 17-29			Location (legal)			Schlumberger Location Cheyenne			Job Start Aug/06/2021						
Field Wattenburg		Formation Name/Type			Deviation deg		Bit Size in		Well MD 2004.0 ft		Well TVD 2004.0 ft				
County Weld		State/Province Colorado			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal				
Well Master		API/UWI													
Rig Name		Drilled For Oil & Gas		Service Via Land		Casing/ Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class Old		Well Type Workover		2004.0		4.5		11.6					
						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	Thread
Service Line Cementing		Job Type Plug													
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval	
<b>Service Instructions</b> Pressure Test: 2500 psi Estimated BOC = 2004 ; Estimated TOC = 1700 Cement Type Density = "15.8 ppg AGM" Volume = 23.7 ; Sacks = 110 Yield = 1.21 GPS = 5.26 Water: Temp 65, CI < 300, pH 7						2000.0 ft		2004.0 ft						4.0 ft	
						0.0 ft		0.0 ft						Diameter	
						0.0 ft		0.0 ft						in	
		Treat Down Casing		Displacement 26.4 bbl		Packer Type		Packer Depth ft							
Tubing Vol. bbl		Casing Vol. 31.1 bbl		Annular Vol. bbl		Openhole Vol. 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 psi						Shoe Type				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth ft				Tool Type					
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth ft					
Cement Head Type						Stage Tool Depth ft				Tail Pipe Size in					
Job Scheduled For Aug/06/2021		Arrived on Location Aug/06/2021		Leave Location Aug/06/2021		Collar Type				Tail Pipe Depth ft					
						Collar Depth ft				Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
08/06/2021	10:24:40	0	0.0	8.23	0.0										
08/06/2021	10:25:47	0	0.0	8.23	0.0	Start Job									
08/06/2021	10:29:40	0	0.0	8.22	0.0										
08/06/2021	10:31:59	5	1.7	8.22	0.0	Start Pumping Wash									
08/06/2021	10:34:40	275	3.8	8.24	7.0										
08/06/2021	10:35:12	266	3.8	8.24	9.0	End Wash									
08/06/2021	10:35:14	270	3.8	8.24	9.2	Reset Total, Vol = 9.16 bbl									
08/06/2021	10:35:16	279	3.8	8.24	9.3	Start Pumping Water									
08/06/2021	10:36:57	0	0.0	8.25	13.8	End Water									
08/06/2021	10:36:59	0	0.0	8.25	13.8	Reset Total, Vol = 4.53 bbl									
08/06/2021	10:37:45	2559	0.0	8.24	13.8	Pressure Test Lines									
08/06/2021	10:39:40	5	0.0	8.25	13.8										
08/06/2021	10:44:40	5	0.0	8.24	13.8										
08/06/2021	10:54:40	5	0.0	0.10	13.8										
08/06/2021	10:58:12	92	0.0	15.24	13.8	Start Cement Slurry									
08/06/2021	10:59:40	375	3.8	15.66	17.7										
08/06/2021	11:04:40	270	3.8	15.82	36.4										
08/06/2021	11:05:09	320	3.8	15.75	38.3	End Cement Slurry									
08/06/2021	11:05:11	160	3.8	15.72	38.4	Reset Total, Vol = 27.73 bbl									
08/06/2021	11:05:18	247	3.8	10.21	38.8	Start Displacement									
08/06/2021	11:09:40	69	3.8	8.24	55.2										

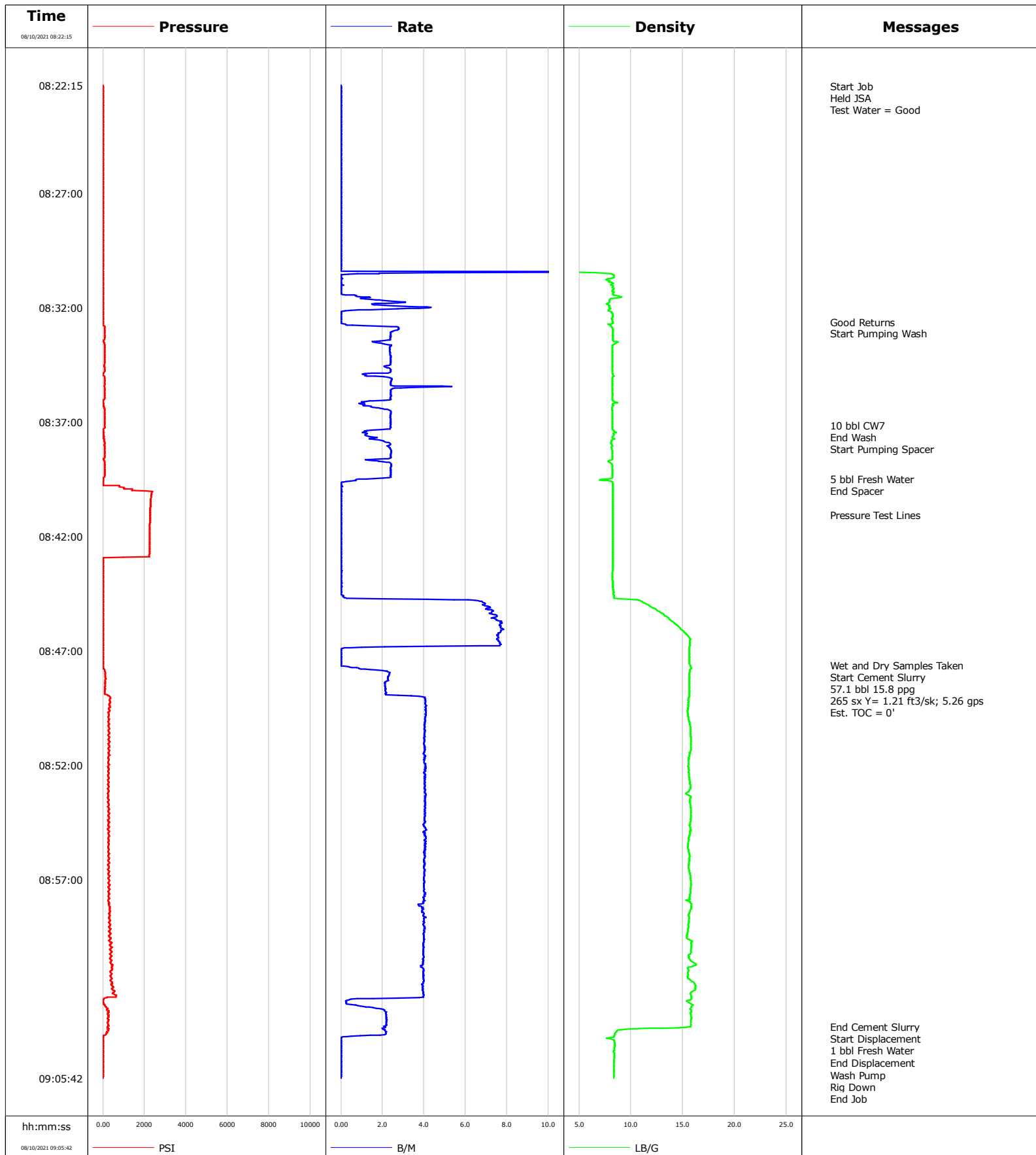
Well HAUCK 17-29			Field Wattenburg		Job Start Aug/06/2021		Customer OXY		Job Number EAJ7-02429	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/06/2021	11:11:19	261	3.8	8.24	61.4	Reset Total, Vol = 26.44 bbl				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 3.5	N2		Mud	Maximum Rate 3.8	Total Slurry 23.7	Mud 0.0		Spacer 15.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2573	Final 0	Average 141	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 23.7 bbl		Displacement 26.4 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Seth Chappel				Schlumberger Supervisor R Pippin				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-

**Well** Hauck 17-29  
**Field** Wattenberg  
**Engineer** Ken Sovereign  
**Country** United States

**Client** Occidental  
**SIR No.** EAJ7-02436  
**Job Type** P A  
**Job Date** 08-10-2021



# Cementing Service Report

				Customer Occidental		Job Number EAJ7-02436	
Well Hauck 17-29		Location (legal)		Schlumberger Location Cheyenne Remedial		Job Start Aug/10/2021	
Field Wattenberg		Formation Name/Type		Deviation deg	Bit Size in	Well MD 875.0 ft	Well TVD 875.0 ft
County Weld		State/Province CO		BHP psi	BHST 90 degF	BHCT 80 degF	Pore Press. Gradient lb/gal
Well Master 64849904		API/UWI 0512326722					
Rig Name Ranger 5531	Drilled For Oil & Gas	Service Via Land	Casing/Liner				
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class Old	Well Type Workover	772.0	8.6	24.0		
			875.0	4.5	11.6		
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 P & A						
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection 2 3/8" 4.7# T/S	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 1.0 bbl	Packer Type	Packer Depth ft	
			Tubing Vol. bbl	Casing Vol. 13.6 bbl	Annular Vol. 31.3 bbl	Openhole Vol. 6.2 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 psi				Shoe Type		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft		Tool Type	
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Aug/10/2021		Arrived on Location Aug/10/2021	Leave Location Aug/10/2021	Collar Type		Tail Pipe Depth ft	
				Collar Depth ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/10/2021	08:22:15	0	0.0	0.01	0.0	Started Acquisition	
08/10/2021	08:22:18	0	0.0	0.01	0.0	Start Job	
08/10/2021	08:22:20	0	0.0	0.01	0.0	Held JSA	
08/10/2021	08:27:15	5	0.0	0.01	0.0		
08/10/2021	08:32:15	0	0.0	8.22	2.4		
08/10/2021	08:32:37	0	0.0	8.24	2.4	Good Returns	
08/10/2021	08:37:08	82	2.4	8.23	12.4	10 bbl CW7	
08/10/2021	08:37:15	82	2.4	8.23	12.6		
08/10/2021	08:39:30	9	0.8	7.54	17.3	5 bbl Fresh Water	
08/10/2021	08:41:04	2275	0.0	8.24	17.4	Pressure Test Lines	
08/10/2021	08:42:15	2248	0.0	8.24	17.4		
08/10/2021	08:47:15	0	0.0	15.65	17.5		
08/10/2021	08:47:38	0	0.0	15.72	17.5	Wet and Dry Samples Taken	
08/10/2021	08:52:15	247	4.1	15.59	33.3		
08/10/2021	08:57:15	339	4.0	15.77	53.5		
08/10/2021	09:02:15	32	0.5	15.84	73.3		
08/10/2021	09:03:27	238	2.1	15.78	75.2	End Cement Slurry	
08/10/2021	09:03:52	18	0.5	8.38	76.1	End Displacement	
08/10/2021	09:05:33	14	0.0	8.35	76.1	Wash Pump	

<b>Well</b> Hauck 17-29	<b>Field</b> Wattenberg	<b>Job Start</b> Aug/10/2021	<b>Customer</b> Occidental	<b>Job Number</b> EAJ7-02436
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.3	N2		Mud	Maximum Rate 4.1	Total Slurry 57.1	Mud 0.0		Spacer 15.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2385	Final 0	Average 396	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 57.1 bbl		Displacement 1.0 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To ft
Customer or Authorized Representative Seth Chappell				Schlumberger Supervisor Ken Sovereign				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	