



# Cementing Service Report

				Customer Anadarko		Job Number	
Well Warren E 35-12		Location (legal)		Schlumberger Location		Job Start Apr/18/2019	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD ft	Well TVD ft
County Weld		State/Province Colorado		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI 512316221					
Rig Name Bohler 5	Drilled For Oil	Service Via Land	Casing/Liner				
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class Old	Well Type Workover					
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			T	2505.0	2.9	8.7
					0.0	0.0	0.0
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection 2 7/8" 8.7# T/S		Perforations/Open Hole			
				Top, ft	Bottom, ft	shot/ft	No. of Shots
				ft	ft		Total Interval ft
				ft	ft		Diameter in
				Treat Down Tubing	Displacement 8.0 bbl	Packer Type	Packer Depth ft
				Tubing Vol. bbl	Casing Vol. 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 Apr/18/2019	Arrived on Location Apr/18/2019	Leave Location Apr/18/2019		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	
04/18/2019	08:34:16	9	0.0	0.33	0.0	Started Acquisition	
04/18/2019	08:34:23	9	0.0	0.33	0.0	Sensors Checked	
04/18/2019	08:39:16	14	0.0	8.09	0.0		
04/18/2019	08:44:16	14	0.0	8.30	2.3		
04/18/2019	08:49:16	14	0.0	8.30	2.3		
04/18/2019	08:51:00	14	0.0	8.27	2.3	Start Job	
04/18/2019	08:51:31	142	0.6	8.28	2.4	Start Pumping Spacer	
04/18/2019	08:51:32	151	0.6	8.28	2.4	Pump 5 bbls H2O	
04/18/2019	08:54:16	471	2.0	8.27	6.6		
04/18/2019	08:56:22	3291	0.0	8.28	7.3	End Spacer	
04/18/2019	08:56:24	3291	0.0	8.27	7.3	Pressure Test Lines	
04/18/2019	08:59:16	69	0.0	8.29	7.3		
04/18/2019	09:01:00	87	0.0	15.97	7.3	Start Cement Slurry	
04/18/2019	09:04:16	636	1.9	15.80	13.3		
04/18/2019	09:09:16	114	2.2	15.73	23.9		
04/18/2019	09:14:16	105	1.9	15.94	34.7		
04/18/2019	09:19:00	119	1.9	15.85	43.5	End Cement Slurry	
04/18/2019	09:19:16	82	1.9	11.99	44.0		
04/18/2019	09:24:00	64	0.0	8.28	47.9	End Displacement	
04/18/2019	09:24:16	64	0.0	8.28	47.9		

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### Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl					
Slurry 2.0	N2	Mud	Maximum Rate 46.9	Total Slurry 39.3	Mud 0.0	Spacer 5.0	N2		
Treating Pressure Summary, psi				Breakdown Fluid					
Maximum 3374	Final 14	Average 178	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %	Designed Slurry Volume 39.3 bbl	Displacement 8.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl			
				Washed Thru Perfs <input type="checkbox"/>		To ft			
Customer or Authorized Representative Jess Jacobs		Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
					-	-			



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Well Warren E 35-12		Location (legal)		Schlumberger Location		Job Start Apr/18/2019											
Field DJ		Formation Name/Type		Deviation deg		Bit Size in		Well MD ft		Well TVD ft							
County Weld		State/Province Colorado		BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal							
Well Master		API/UWI 512316221															
Rig Name Bohler 5		Drilled For Oil		Service Via Land		Casing/Liner											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
Offshore Zone		Well Class Old		Well Type Workover													
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 Surface Plug				T		553.0		2.9		8.7		J55		8RD	
								0.0		0.0		0.0					
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 7/8" 8.7# 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									
Service Instructions Sensors Checked Pump 2 bbls H2O Psi Test Pump 42 bbls Of 15.8 ppg @ 220 sks @ 1.17 Mix H2O 5.133 gps Estimated TOC Surface Bottom Plug 553' Top Out 2 bbls 15.8 ppg @ 10 sks						Treat Down Tubing		Displacement bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 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 Apr/18/2019		Arrived on Location Apr/18/2019		Leave Location Apr/18/2019		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											
04/18/2019	14:27:10	14	0.0	8.30	0.0	Started Acquisition											
04/18/2019	14:27:11	14	0.0	8.30	0.0	Sensors Checked											
04/18/2019	14:27:13	14	0.0	8.30	0.0	Start Job											
04/18/2019	14:27:15	14	0.0	8.31	0.0	Start Pumping Spacer											
04/18/2019	14:27:19	14	0.0	8.30	0.0	Pump 2 bbls H2O											
04/18/2019	14:32:10	69	0.0	8.28	0.0												
04/18/2019	14:34:07	1822	0.0	8.28	0.2	End Spacer											
04/18/2019	14:34:10	1817	0.0	8.27	0.2	Pressure Test Lines											
04/18/2019	14:37:10	18	0.0	8.29	0.2												
04/18/2019	14:39:00	23	0.0	15.88	0.2	Start Cement Slurry											
04/18/2019	14:42:10	114	2.3	15.82	5.1												
04/18/2019	14:47:10	114	2.4	15.83	16.5												
04/18/2019	14:52:10	156	2.4	15.81	28.1												
04/18/2019	14:57:00	220	2.0	15.82	38.1	End Cement Slurry											
04/18/2019	14:57:10	211	2.0	15.75	38.4												
04/18/2019	15:02:10	14	0.0	16.15	38.7												
04/18/2019	15:07:10	169	3.7	8.51	40.9												
04/18/2019	15:12:10	9	0.0	8.35	42.0												
04/18/2019	15:17:10	9	0.0	8.31	42.0												
04/18/2019	15:22:10	9	0.0	8.31	42.0												
04/18/2019	15:26:58	316	0.0	13.45	42.0	Start Cement Slurry											