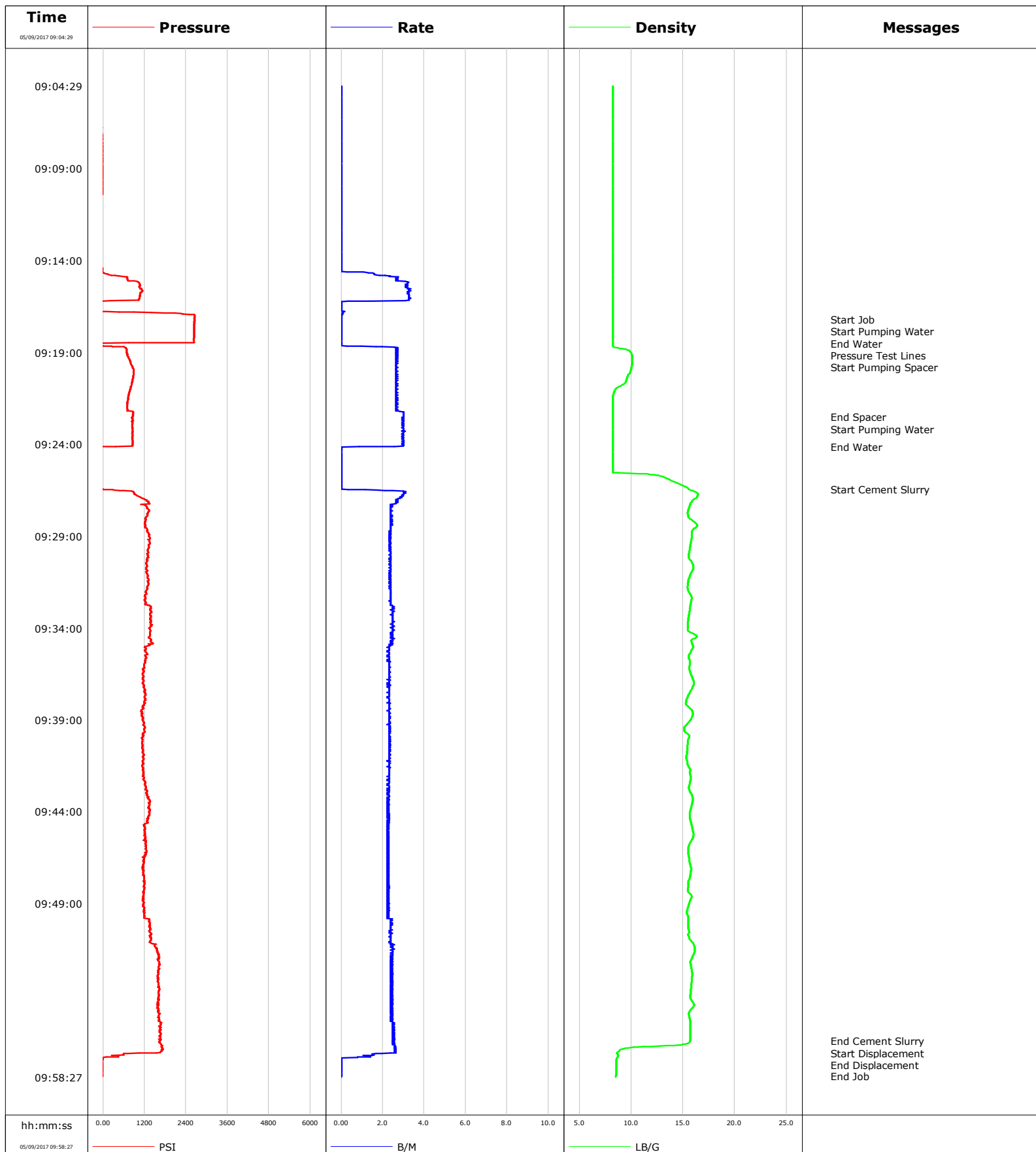


Well Kugel V 18-4
Field DJ
Engineer Robert Pippin
Country United States

Client Anadarko
SIR No. DA6T-01036
Job Type Annular Fill
Job Date 05-09-2017



Cementing Service Report

				Customer Anadarko			Job Number DA6T-01036						
Well Kugel V 18-4			Location (legal)			Schlumberger Location Cheyenne			Job Start May/09/2017				
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 1080.0 ft		Well TVD 1080.0 ft		
County Weld		State/Province Colorado			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal		
Well Master		API/UWI											
Rig Name TEC 23		Drilled For Oil & Gas		Service Via Land		Casing/ Liner							
						Depth, ft		Size, in		Weight, lb/ft		Grade	
						556.0		8.6		24.0		J55	
Offshore Zone		Well Class Old		Well Type Workover		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	
						T		1080.0		1.7		2.3	
						0.0		0.0		0.0			
Service Line Cementing		Job Type Annular Fill		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole							
						Top, ft		Bottom, ft		shot/ft		No. of Shots	
						ft		ft				Total Interval ft	
						ft		ft				Diameter in	
						ft		ft					
						Treat Down Tubing		Displacement 0.5 bbl		Packer Type		Packer Depth ft	
						Tubing Vol. 1.9 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 May/09/2017		Arrived on Location May/09/2017		Leave Location May/09/2017		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							
05/09/2017	09:04:29	-42	0.0	8.22	0.0	Safety Meeting							
05/09/2017	09:04:59	-42	0.0	8.22	0.0								
05/09/2017	09:05:29	-42	0.0	8.21	0.0								
05/09/2017	09:05:59	-38	0.0	8.21	0.0								
05/09/2017	09:06:29	-38	0.0	8.21	0.0								
05/09/2017	09:06:59	-33	0.0	8.22	0.0								
05/09/2017	09:07:29	-28	0.0	8.22	0.0								
05/09/2017	09:07:59	-28	0.0	8.22	0.0								
05/09/2017	09:08:29	-28	0.0	8.22	0.0								
05/09/2017	09:08:59	-28	0.0	8.22	0.0								
05/09/2017	09:09:29	-28	0.0	8.22	0.0								
05/09/2017	09:09:59	-28	0.0	8.22	0.0								
05/09/2017	09:10:29	-74	0.0	8.22	0.0								
05/09/2017	09:10:59	-74	0.0	8.22	0.0								
05/09/2017	09:11:29	-74	0.0	8.22	0.0								
05/09/2017	09:11:59	-70	0.0	8.22	0.0								
05/09/2017	09:12:29	-70	0.0	8.22	0.0								
05/09/2017	09:12:59	-74	0.0	8.22	0.0								
05/09/2017	09:13:29	-74	0.0	8.22	0.0								
05/09/2017	09:13:59	-74	0.0	8.22	0.0								
05/09/2017	09:14:29	-24	0.0	8.21	0.0								

Well			Field	Job Start		Customer	Job Number
Kugel V 18-4			DJ	May/09/2017		Anadarko	DA6T-01036
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
05/09/2017	09:15:29	1066	3.2	8.21	2.2		
05/09/2017	09:15:59	1057	3.3	8.21	3.9		
05/09/2017	09:16:29	-97	0.0	8.21	4.6		
05/09/2017	09:16:59	2650	0.0	8.21	4.6		
05/09/2017	09:17:13	2645	0.0	8.21	4.6	Start Job	
05/09/2017	09:17:16	2645	0.0	8.21	4.6	Start Pumping Water	
05/09/2017	09:17:17	2645	0.0	8.21	4.6	End Water	
05/09/2017	09:17:19	2640	0.0	8.21	4.6	Pressure Test Lines	
05/09/2017	09:17:25	2640	0.0	8.21	4.6	Start Pumping Spacer	
05/09/2017	09:17:29	2640	0.0	8.21	4.6		
05/09/2017	09:17:59	2640	0.0	8.21	4.6		
05/09/2017	09:18:29	759	0.0	8.21	4.6		
05/09/2017	09:18:59	690	2.7	9.95	5.4		
05/09/2017	09:19:29	786	2.7	10.09	6.8		
05/09/2017	09:19:59	887	2.7	9.96	8.1		
05/09/2017	09:20:29	855	2.7	9.54	9.4		
05/09/2017	09:20:59	796	2.7	8.53	10.8		
05/09/2017	09:21:29	732	2.7	8.24	12.1		
05/09/2017	09:21:59	704	2.7	8.22	13.4		
05/09/2017	09:22:29	855	3.0	8.22	14.8		
05/09/2017	09:22:30	864	3.0	8.21	14.9	End Spacer	
05/09/2017	09:22:33	841	2.9	8.22	15.0	Start Pumping Water	
05/09/2017	09:22:59	855	3.0	8.22	16.2		
05/09/2017	09:23:29	851	3.0	8.21	17.7		
05/09/2017	09:23:59	855	3.0	8.21	19.2		
05/09/2017	09:24:08	-28	0.9	8.22	19.7	End Water	
05/09/2017	09:24:29	-70	0.0	8.22	19.7		
05/09/2017	09:24:59	-74	0.0	8.22	19.7		
05/09/2017	09:25:29	-74	0.0	8.24	19.7		
05/09/2017	09:25:59	-74	0.0	13.89	19.7		
05/09/2017	09:26:27	-1	0.0	15.55	19.7	Start Cement Slurry	
05/09/2017	09:26:29	283	1.2	15.66	19.7		
05/09/2017	09:26:59	1203	2.7	16.09	21.1		
05/09/2017	09:27:29	1272	2.4	15.57	22.4		
05/09/2017	09:27:59	1240	2.4	15.53	23.6		
05/09/2017	09:28:29	1212	2.4	16.32	24.8		
05/09/2017	09:28:59	1327	2.3	15.84	26.0		
05/09/2017	09:29:29	1336	2.4	15.72	27.2		
05/09/2017	09:29:59	1281	2.4	15.56	28.3		
05/09/2017	09:30:29	1249	2.4	15.91	29.5		
05/09/2017	09:30:59	1263	2.3	15.81	30.7		
05/09/2017	09:31:29	1313	2.4	15.49	31.9		
05/09/2017	09:31:59	1253	2.4	15.51	33.1		
05/09/2017	09:32:29	1203	2.4	15.81	34.3		
05/09/2017	09:32:59	1368	2.5	15.65	35.5		
05/09/2017	09:33:29	1372	2.5	15.52	36.7		
05/09/2017	09:33:59	1349	2.4	15.45	38.0		
05/09/2017	09:34:29	1322	2.4	16.33	39.2		
05/09/2017	09:34:59	1299	2.4	15.95	40.4		
05/09/2017	09:35:29	1235	2.2	15.56	41.6		
05/09/2017	09:35:59	1198	2.3	15.64	42.7		
05/09/2017	09:36:59	1139	2.3	16.05	45.0		
05/09/2017	09:37:29	1217	2.3	15.68	46.2		
05/09/2017	09:37:59	1198	2.3	15.30	47.3		

Well			Field		Job Start		Customer		Job Number	
Kugel V 18-4			DJ		May/09/2017		Anadarko		DA6T-01036	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/09/2017	09:38:59	1134	2.3	15.75	49.6					
05/09/2017	09:39:29	1185	2.3	15.12	50.8					
05/09/2017	09:39:59	1121	2.3	15.57	51.9					
05/09/2017	09:40:29	1121	2.3	15.42	53.1					
05/09/2017	09:40:59	1157	2.3	15.31	54.3					
05/09/2017	09:41:29	1130	2.3	15.49	55.4					
05/09/2017	09:41:59	1153	2.3	15.69	56.6					
05/09/2017	09:42:29	1208	2.2	15.64	57.7					
05/09/2017	09:42:59	1272	2.3	15.75	58.9					
05/09/2017	09:43:29	1349	2.3	15.91	60.0					
05/09/2017	09:43:59	1340	2.2	15.69	61.1					
05/09/2017	09:44:29	1285	2.3	15.72	62.3					
05/09/2017	09:44:59	1203	2.3	15.92	63.4					
05/09/2017	09:45:29	1235	2.2	15.91	64.5					
05/09/2017	09:45:59	1249	2.3	15.52	65.6					
05/09/2017	09:46:29	1139	2.2	15.57	66.8					
05/09/2017	09:46:59	1153	2.2	15.74	67.9					
05/09/2017	09:47:29	1157	2.2	15.70	69.0					
05/09/2017	09:47:59	1203	2.2	15.50	70.1					
05/09/2017	09:48:29	1180	2.2	15.70	71.3					
05/09/2017	09:48:59	1171	2.2	15.61	72.4					
05/09/2017	09:49:29	1198	2.2	15.35	73.5					
05/09/2017	09:49:59	1331	2.4	15.52	74.7					
05/09/2017	09:50:29	1354	2.4	15.57	75.9					
05/09/2017	09:50:59	1395	2.4	15.70	77.1					
05/09/2017	09:51:29	1542	2.6	16.13	78.3					
05/09/2017	09:51:59	1606	2.4	15.85	79.5					
05/09/2017	09:52:29	1620	2.4	15.79	80.7					
05/09/2017	09:52:59	1569	2.4	15.87	82.0					
05/09/2017	09:53:29	1606	2.4	15.79	83.2					
05/09/2017	09:53:59	1624	2.5	15.72	84.4					
05/09/2017	09:54:29	1615	2.5	16.06	85.6					
05/09/2017	09:54:59	1642	2.4	15.56	86.9					
05/09/2017	09:55:29	1652	2.5	15.68	88.1					
05/09/2017	09:55:59	1652	2.5	15.69	89.3					
05/09/2017	09:56:29	1647	2.5	15.68	90.6					
05/09/2017	09:56:30	1629	2.5	15.67	90.6	End Cement Slurry				
05/09/2017	09:56:36	1638	2.5	15.55	90.9	Start Displacement				
05/09/2017	09:56:59	1688	2.7	8.90	91.8					
05/09/2017	09:57:24	-15	0.0	8.64	92.6	End Displacement				
05/09/2017	09:57:29	-10	0.0	8.59	92.6					
05/09/2017	09:57:59	-28	0.0	8.56	92.6					

Well Kugel V 18-4	Field DJ	Job Start May/09/2017	Customer Anadarko	Job Number DA6T-01036
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 2.4	N2	Mud	Maximum Rate 3.4		Total Slurry 68.0	Mud 0.0	Spacer 20.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2654	Final -28	Average 1270	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 68.0 bbl		Displacement 0.5 bbl		Mix Water Temp 50 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Luis Morales				Schlumberger Supervisor Robert Pippin				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-