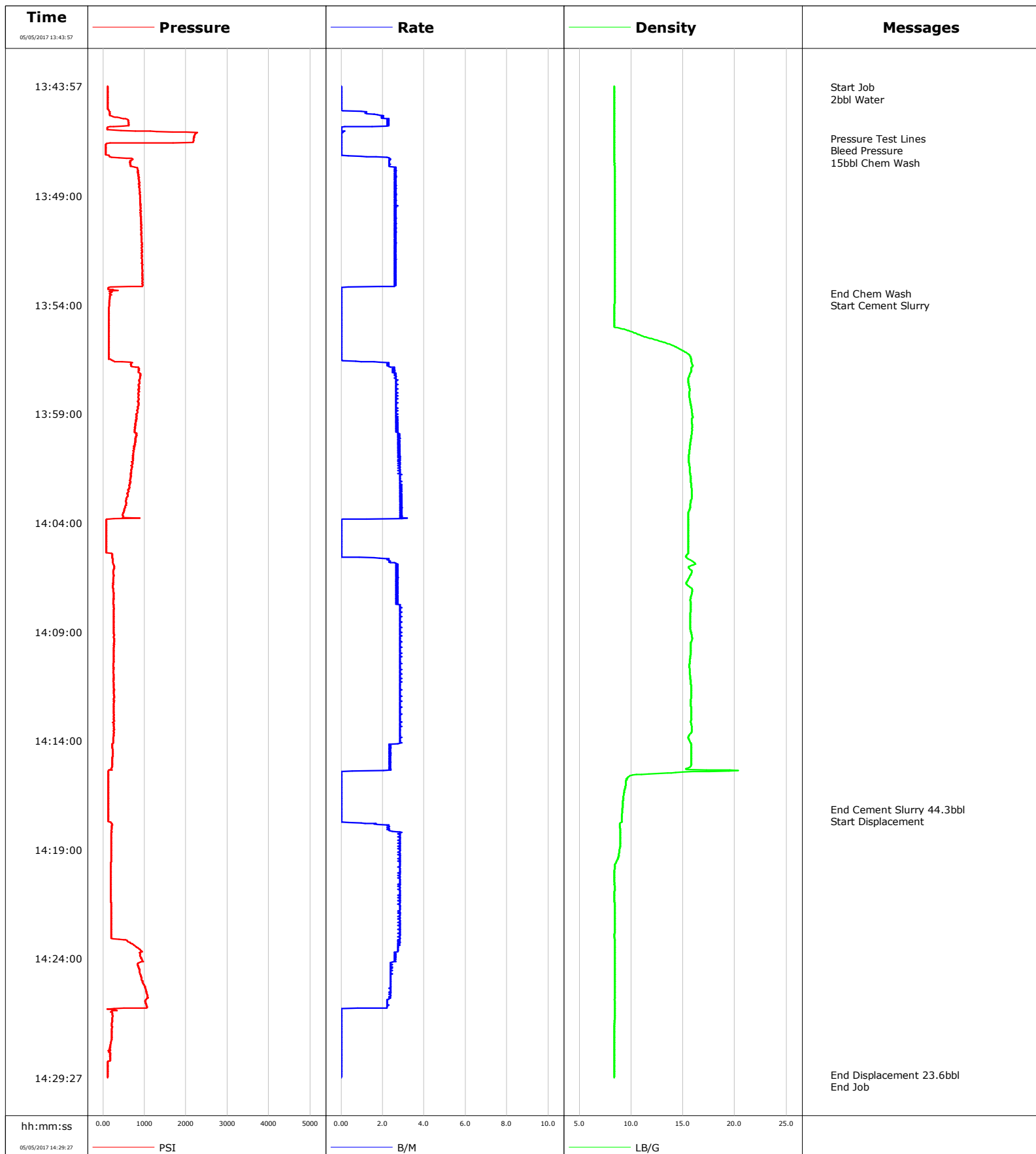


Well Sakata State
Field DJ
Engineer Chris Valerio
Country United States

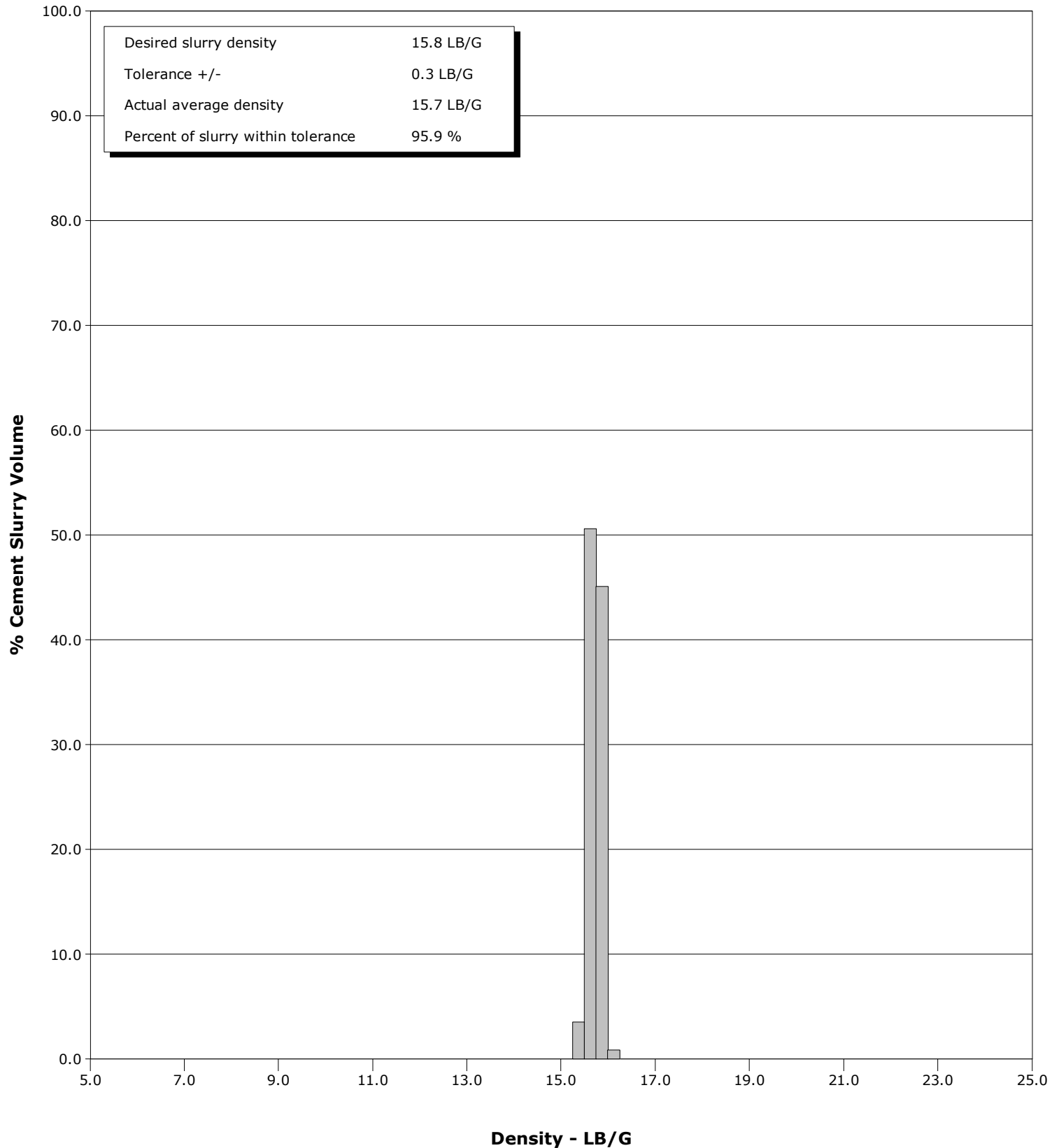
Client Anadarko
SIR No. DA6T-01024
Job Type Niobrara Sqz
Job Date 05-05-2017



Well Sakata State
Field DJ
Engineer Chris Valerio
Country United States

Client Anadarko
SIR No. DA6T-01024
Job Type Niobrara Sqz
Job Date 05-05-2017

Cement Slurry - 05/05/2017 13:56:39 to 05/05/2017 14:15:07



Cementing Service Report

				Customer Anadarko			Job Number DA6T-01024		
Well Sakata State 24-36			Location (legal)		Schlumberger Location			Job Start May/05/2017	
Field DJ		Formation Name/Type Shale		Deviation deg	Bit Size 9.0 in		Well MD 7250.0 ft		
County Weld		State/Province Colorado		BHP psi	BHST 220 degF		BHCT 220 degF		
Well Master 0631716597		API/UWI 512307880						Pore Press. Gradient lb/gal	
Rig Name Concord #4	Drilled For N/A	Service Via Land	Casing/ Liner						
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone	Well Class Old	Well Type Workover	7250.0	4.5	11.6	M80	8RD		
			0.0	0.0	0.0				
Drilling Fluid Type Other		Max. Density 8.30 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe					
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	
					6880.0	2.4	4.7	J55	
					0.0	0.0	0.0	8RD	
Service Line Cementing		Job Type Niobrara Sqz		Perforations/Open Hole					
Max. Allowed Tub. Press 1500 psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Top, ft	Bottom, ft	shot/ft	
						6850.0 ft	7250.0 ft		
						0.0 ft	0.0 ft		
						0.0 ft	0.0 ft		
						Treat Down Tubing	Displacement 23.6 bbl	Packer Type	
								Packer Depth ft	
						Tubing Vol. 26.6 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/05/2017 12:00		Arrived on Location May/05/2017 13:30		Leave Location May/05/2017 15:00		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			
05/05/2017	13:43:57	114	0.0	8.39	0.0	Started Acquisition			
05/05/2017	13:44:00	114	0.0	8.39	0.0	Start Job			
05/05/2017	13:44:08	114	0.0	8.39	0.0	2bbl Water			
05/05/2017	13:46:22	2187	0.0	8.39	1.4	Pressure Test Lines			
05/05/2017	13:46:35	168	0.0	8.39	1.4	Bleed Pressure			
05/05/2017	13:46:47	63	0.0	8.39	1.4	15bbl Chem Wash			
05/05/2017	13:48:57	892	2.7	8.40	5.9				
05/05/2017	13:53:29	159	0.0	8.40	16.9	End Chem Wash			
05/05/2017	13:53:37	173	0.0	8.40	16.9	Start Cement Slurry			
05/05/2017	13:53:57	150	0.0	8.40	16.9				
05/05/2017	13:58:57	832	2.7	15.87	23.0				
05/05/2017	14:03:57	81	0.0	15.50	36.7				
05/05/2017	14:08:57	255	2.8	15.74	45.8				
05/05/2017	14:13:57	242	2.8	15.59	60.0				
05/05/2017	14:17:08	123	0.0	9.15	63.4	End Cement Slurry 44.3bbl			
05/05/2017	14:17:17	123	0.0	9.12	63.4	Start Displacement			
05/05/2017	14:18:57	200	2.7	8.89	66.5				
05/05/2017	14:23:57	919	2.6	8.42	80.5				
05/05/2017	14:28:57	114	0.0	8.38	86.0				
05/05/2017	14:29:18	114	0.0	8.38	86.0	End Displacement 23.6bbl			

Well Sakata State 24-36	Field DJ	Job Start May/05/2017	Customer Anadarko	Job Number DA6T-01024
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 2.6	N2	Mud	Maximum Rate 3.2		Total Slurry 44.3	Mud 0.0	Spacer 16.9	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 948	Final 114	Average 445	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 44.3 bbl		Displacement 23.6 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 Bob Pitts				Schlumberger Supervisor Chris Valerio				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-



Job Summary

Ticket Number	Ticket Date
TN# FL1740	5/8/2017

COUNTY	COMPANY	API Number
Weld	Anadarko Petroleum Corporation	05-123-07880
WELL NAME	RIG	JOB TYPE
Sakata-State 24-36	Ensign 319	Sussex Squeeze
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SESW 36 1N 67W	Laeger, Kacey	Socorro Olivas

EMPLOYEES		
	Walkins,Robbert	
Payne,James		

WELL PROFILE			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F):	0
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7	J-55	0	4520		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	11.6	P-110	0	4940		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:	From Depth (ft):	3939.4	To Depth (ft):	4940
Type: Squeeze	Volume (sacks):	425	Volume (bbls):	88

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G+0.5% CFR-2+0.2% WG-4P+0.5% SCA-7+0.25#/sx Cello Flake	15.8	1.16	4.98

SUMMARY

Preflushes:	10 bbls of SMS	Calculated Displacement (bbl):	Stage 1	Stage 2
	5 bbls of Fresh Water	Actual Displacement (bbl):	17.5	
	bbls of		14.5	
Total Preflush/Spacer Volume (bbl):	15	Plug Bump (Y/N):	Bump Pressure (psi):	
Total Slurry Volume (bbl):	88	Lost Returns (Y/N):	(if Y, when)	
Total Fluid Pumped	117.5			
Returns to Surface:	Cement	0 bbls		

Job Notes (fluids pumped / procedures / tools / etc.):

Holoes shot at 4490 cement retainer set at 4520 holes shot at 4940

Thank You For Using

O - TEX Pumping

Customer Representative Signature:

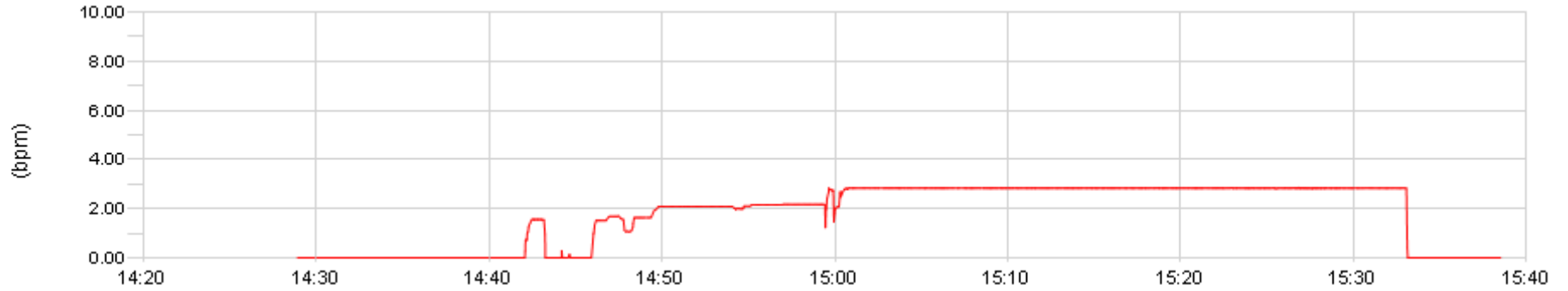
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Client Anadarko Petroleum
Ticket No. 1740
Location SESW 36 1 N 67W
Comments

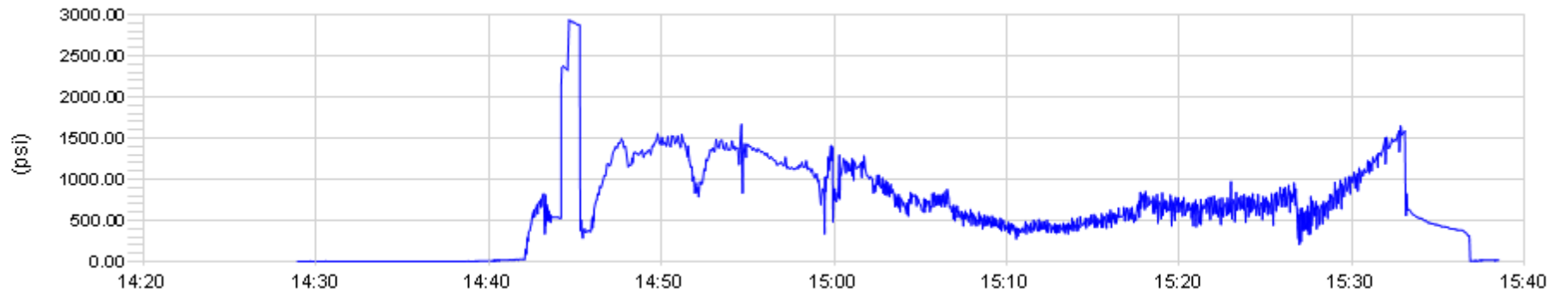
Client Rep Mr Socorro
Well Name Sakata-State 24-36
Job Type Retainer Squeeze

Supervisor Laeger, Kacey
Unit No. 445051
Service District Brighton
Job Date 05/08/2017

Unit 445051 Rate Total



Unit 445051 Pump Pressure

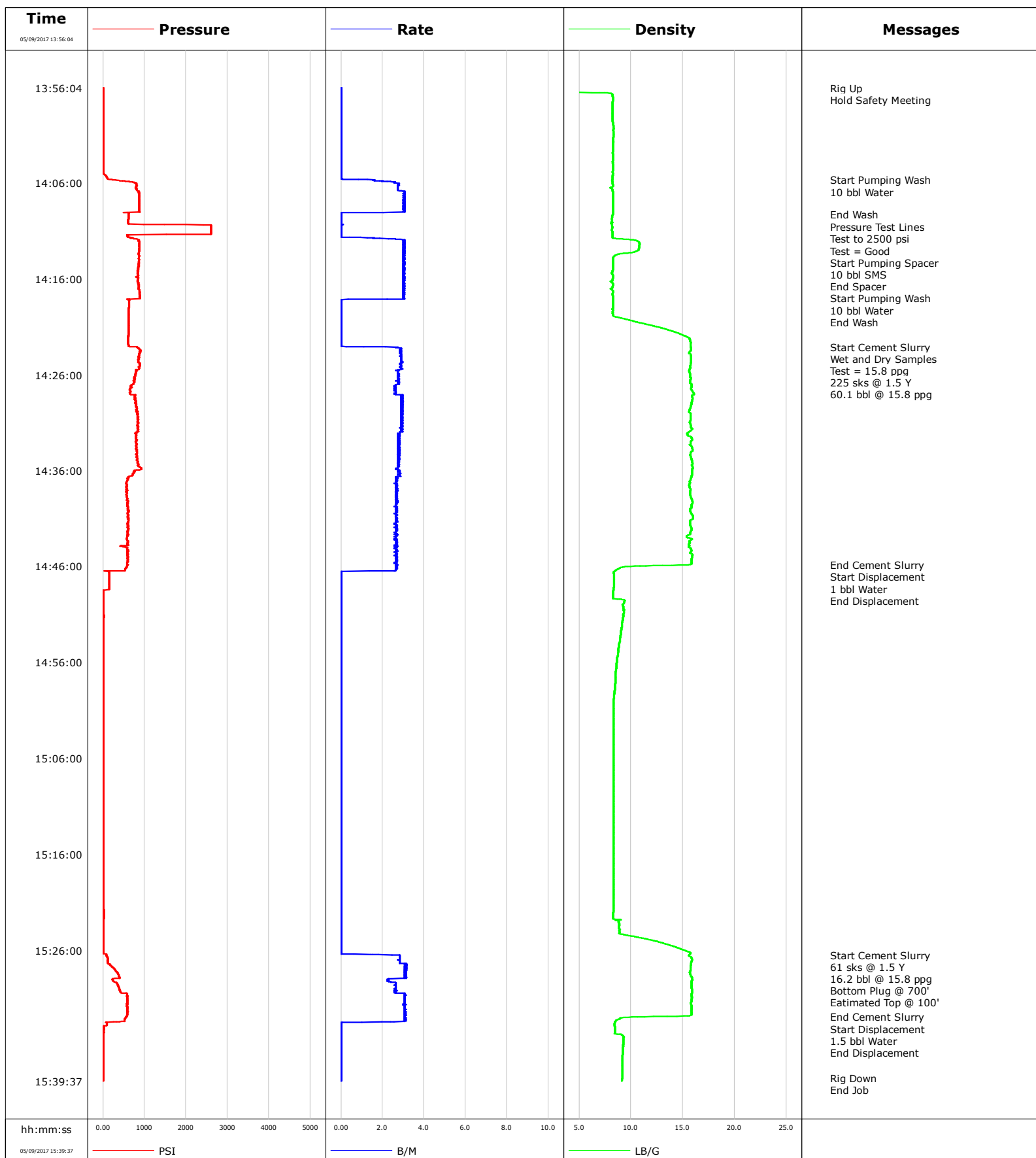


Unit 445051 Density



Well Sakata State 24-36
Field DJ
Engineer Matt Leiker
Country United States

Client Anadarko
SIR No. DA6T-010126
Job Type Sqz/Plug
Job Date 05-09-2017



Page 1 of 3

Well			Field		Job Start	Customer		Job Number
Sakata State 24-36			DJ		May/09/2017	Anadarko		DA6T-010126
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume PSI	Message		
05/09/2017	14:16:16	838	3.0	8.01	0	10 bbl Water		
05/09/2017	14:18:04	897	3.1	8.24	0			
05/09/2017	14:18:07	572	2.2	8.24	0	End Wash		
05/09/2017	14:20:04	609	0.0	8.96	0			
05/09/2017	14:22:04	604	0.0	15.44	0			
05/09/2017	14:23:06	819	2.1	15.76	0	Start Cement Slurry		
05/09/2017	14:23:09	824	2.7	15.77	0	Wet and Dry Samples		
05/09/2017	14:23:10	833	2.6	15.77	0	Test = 15.8 ppg		
05/09/2017	14:23:11	824	2.7	15.77	0	60.1 bbl @ 15.8 ppg		
05/09/2017	14:24:04	879	2.8	15.78	0			
05/09/2017	14:26:04	774	2.7	15.69	0			
05/09/2017	14:28:04	677	2.6	16.10	0			
05/09/2017	14:30:04	838	2.9	15.75	0			
05/09/2017	14:32:04	801	2.8	15.47	0			
05/09/2017	14:34:04	810	2.7	15.78	0			
05/09/2017	14:36:04	769	2.8	15.89	0			
05/09/2017	14:38:04	586	2.7	15.71	0			
05/09/2017	14:40:04	618	2.6	15.67	0			
05/09/2017	14:42:04	618	2.7	15.85	0			
05/09/2017	14:44:04	577	2.6	15.74	0			
05/09/2017	14:45:51	572	2.6	14.71	0	End Cement Slurry		
05/09/2017	14:45:55	577	2.6	11.47	0	Start Displacement		
05/09/2017	14:45:58	577	2.6	9.97	0	1 bbl Water		
05/09/2017	14:46:04	572	2.7	9.16	0			
05/09/2017	14:46:29	137	0.1	8.44	0	End Displacement		
05/09/2017	14:48:04	146	0.0	8.35	0			
05/09/2017	14:50:04	5	0.0	9.20	0			
05/09/2017	14:52:04	9	0.0	9.11	0			
05/09/2017	14:54:04	9	0.0	8.85	0			
05/09/2017	14:56:04	9	0.0	8.60	0			
05/09/2017	14:58:04	9	0.0	8.48	0			
05/09/2017	15:00:04	9	0.0	8.32	0			
05/09/2017	15:02:04	9	0.0	8.31	0			
05/09/2017	15:04:04	9	0.0	8.30	0			
05/09/2017	15:06:04	9	0.0	8.30	0			
05/09/2017	15:08:04	9	0.0	8.30	0			
05/09/2017	15:10:04	9	0.0	8.30	0			
05/09/2017	15:12:04	9	0.0	8.30	0			
05/09/2017	15:14:04	9	0.0	8.30	0			
05/09/2017	15:16:04	9	0.0	8.30	0			
05/09/2017	15:18:04	9	0.0	8.30	0			
05/09/2017	15:20:04	9	0.0	8.30	0			
05/09/2017	15:22:04	14	0.0	8.28	0			
05/09/2017	15:24:04	5	0.0	8.89	0			
05/09/2017	15:26:04	5	0.0	15.35	0			
05/09/2017	15:26:28	73	2.5	15.62	0	Start Cement Slurry		
05/09/2017	15:26:31	78	2.8	15.59	0	61 sks @ 1.5 Y		
05/09/2017	15:27:13	110	2.8	15.82	0	Bottom Plug @ 700'		
05/09/2017	15:27:29	165	3.2	15.78	0	Eatimated Top @ 100'		
05/09/2017	15:28:04	298	3.1	15.74	0			
05/09/2017	15:30:04	394	2.6	15.87	0			
05/09/2017	15:32:04	591	3.1	15.83	0			
05/09/2017	15:32:57	549	3.1	10.12	0	End Cement Slurry		
05/09/2017	15:33:00	545	3.1	9.30	0	Start Displacement		

Well			Field		Job Start	Customer		Job Number	
Sakata State 24-36			DJ		May/09/2017	Anadarko		DA6T-010126	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume PSI	Message			
05/09/2017	15:33:27	330	2.4	8.44	0	End Displacement			
05/09/2017	15:34:04	18	0.0	8.45	0				
05/09/2017	15:38:04	5	0.0	9.16	0				
05/09/2017	15:39:20	5	0.0	9.15	0	Rig Down			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 2.8	N2	Mud	Maximum Rate 3.2		Total Slurry 76.3	Mud 0.0	Spacer 30.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2605	Final 5	Average 372	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 2.5 bbl		Mix Water Temp 61 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume bbl	
								Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative				Schlumberger Supervisor Matt Leiker				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
								-		-	