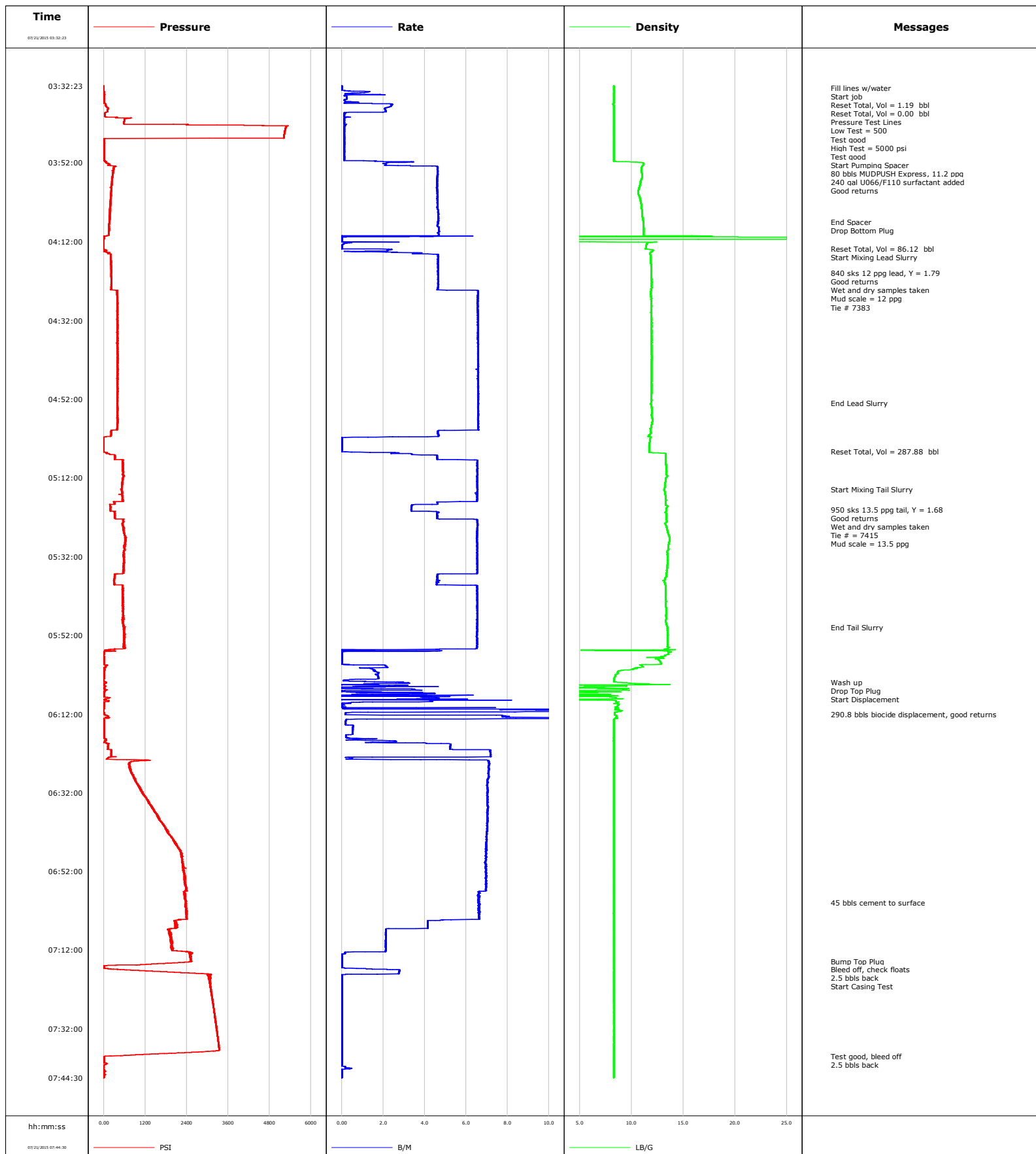


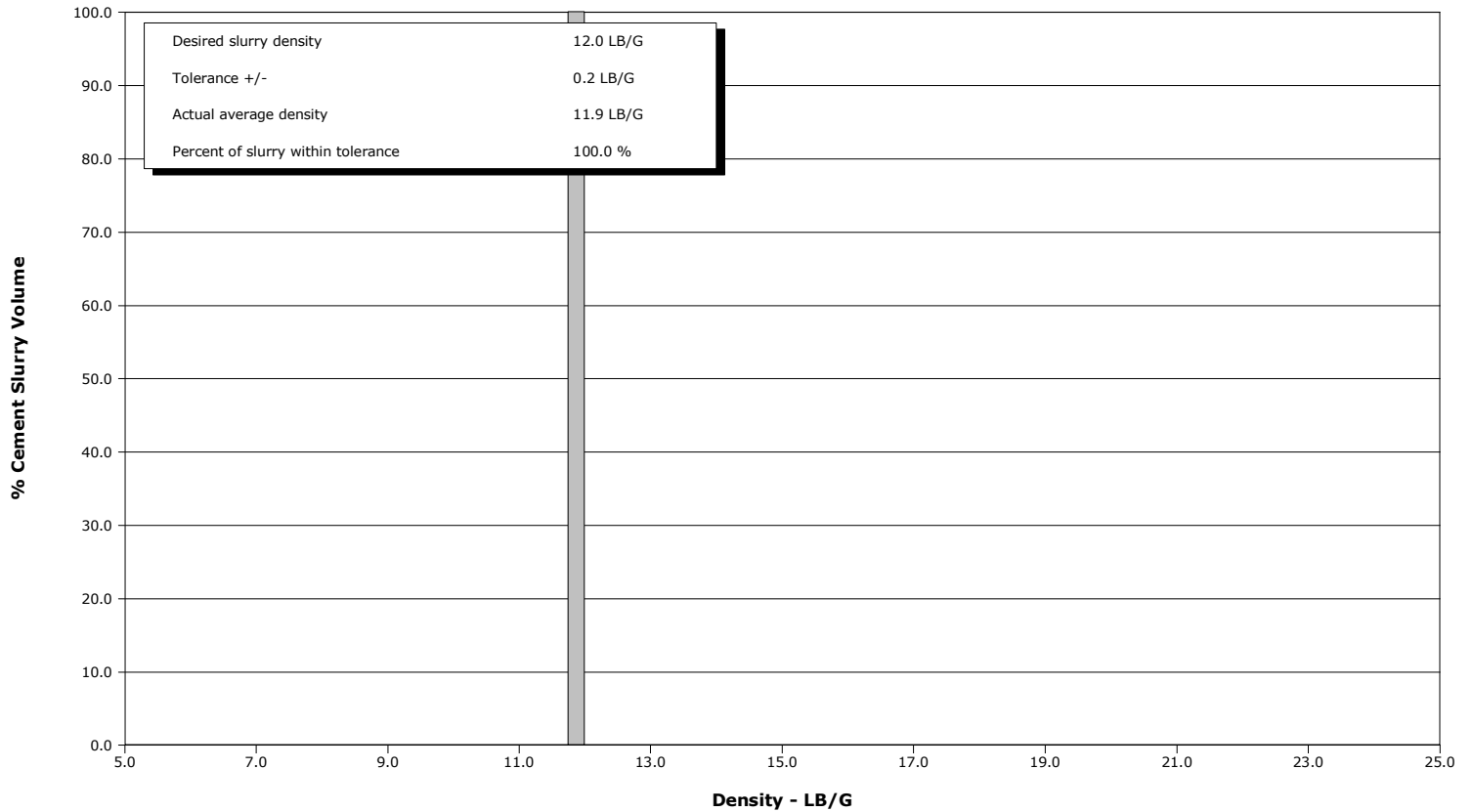
Well	Viper Pyro 16N-10HZ	Client	Anadarko
Field	Wattenberg	SIR No.	D5VO-00684
Engineer	Langley/Terry	Job Type	5.5" Monobore
Country	United States	Job Date	7/21/2015



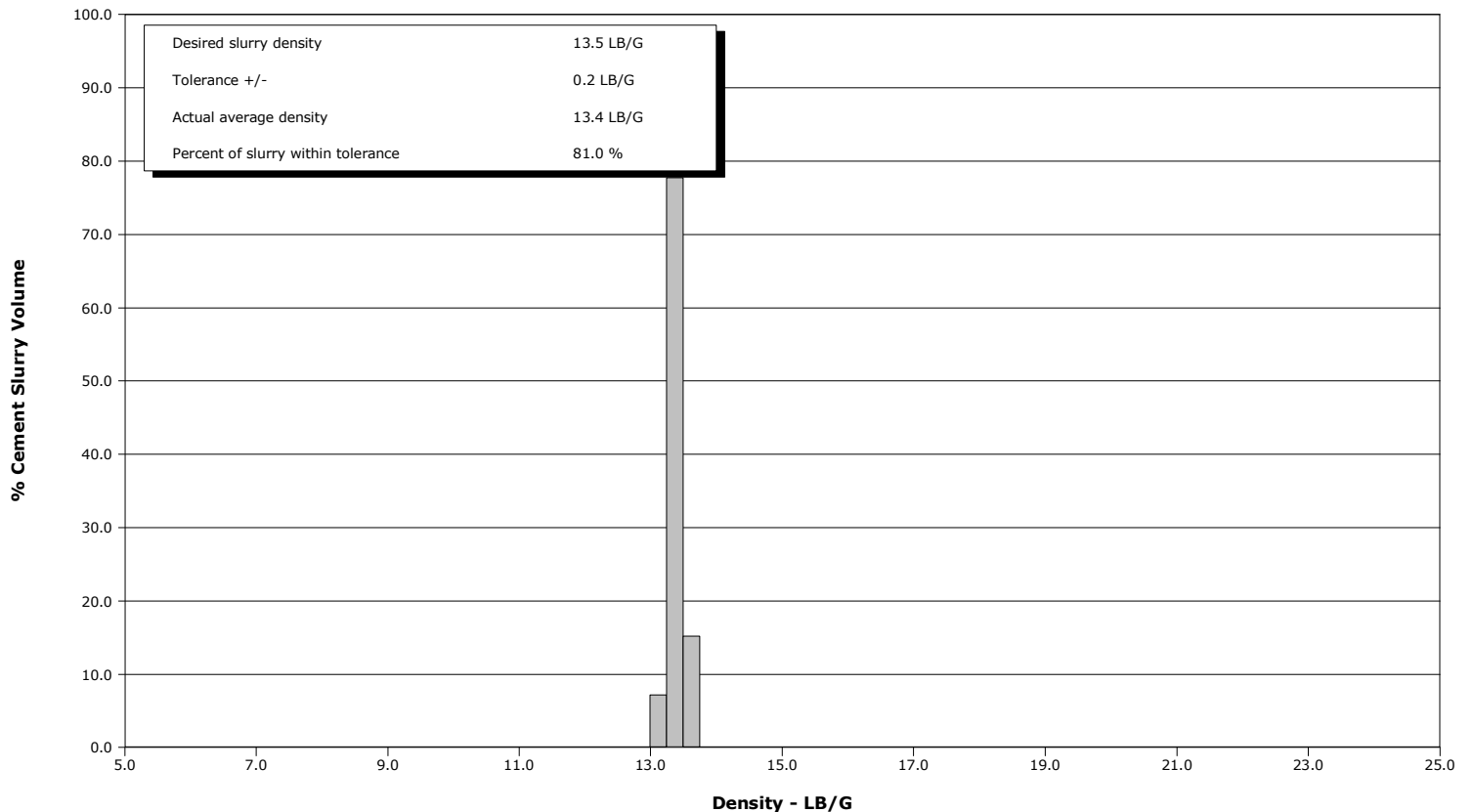
Well Viper Pyro 16N-10HZ
Field Wattenberg
Engineer Langley/Terry
Country United States

Client Anadarko
SIR No. D5VO-00684
Job Type 5.5" Monobore
Job Date 7/21/2015

Lead Slurry - 07/21/2015 04:16:00 to 07/21/2015 04:53:00



Tail Slurry - 07/21/2015 05:15:00 to 07/21/2015 05:50:00



					Customer Anadarko			Job Number D5VO-00684										
Well Viper Pyro 16N-10HZ 16N-10HZ				Location (legal) Precision 462			Schlumberger Location Cheyenne			Job Start Jul/21/2015								
Field Wattenberg			Formation Name/Type Shale			Deviation deg		Bit Size 8.5 in		Well MD 12602.0 ft		Well TVD 6939.0 ft						
County Weld			State/Province Colorado			BHP 2198 psi		BHST 227 degF		BHCT 223 degF		Pore Press. Gradient lb/gal						
Well Master 0631633576			API/UWI 05123414290000															
Rig Name Precision 462		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		12602.0		5.5		17.0		110		LTC				
						1881.0		9.6		36.0		110		LTC				
Drilling Fluid Type OBM			Max. Density 9.80 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
							T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing			Job Type 5.5" Monobore															
Max. Allowed Tub. Press psi			Max. Allowed Ann. Press psi			WH Connection Double Cement Head			Perforations/Open Hole									
									Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft	
									ft		ft							
									ft		ft						Diameter in	
									Treat Down Casing		Displacement 290.8 bbl		Packer Type		Packer Depth ft			
									Tubing Vol. bbl		Casing Vol. 293.0 bbl		Annular Vol. 528.0 bbl		Openhole Vol. 979.0 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 Float				Squeeze Type					
Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input type="checkbox"/>						Shoe Depth 12602.0 ft				Tool Type					
No. Centralizers			Top Plugs 1		Bottom Plugs 1					Stage Tool Type				Tool Depth ft				
Cement Head Type Double									Stage Tool Depth ft				Tail Pipe Size in					
Job Scheduled For Jul/21/2015 00:30			Arrived on Location Jul/21/2015 00:30			Leave Location Jul/21/2015 08:00			Collar Type Float				Tail Pipe Depth ft					
									Collar Depth 12510.0 ft				Sqr. Total Vol. bbl					
Date		Time 24-hr clock		Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		Solid Fraction NULL		Message				
07/21/2015		03:32:23		-1		0.0		8.30		0.0		0		Remark				
07/21/2015		03:33:00		-1		0.0		8.30		0.0		0		Fill lines w/water				
07/21/2015		03:34:23		4		0.2		8.29		0.6		0						
07/21/2015		03:35:56		6		0.1		8.29		1.2		0		Reset Total, Vol = 1.19 bbl				
07/21/2015		03:35:57		6		0.1		8.29		1.2		0		Reset Total, Vol = 0.00 bbl				
07/21/2015		03:36:23		6		0.2		8.29		0.1		0						
07/21/2015		03:38:23		115		2.1		8.29		3.6		0						
07/21/2015		03:39:00		113		2.1		8.29		4.9		0		Pressure Test Lines				
07/21/2015		03:40:00		29		0.1		8.29		5.3		0		Low Test = 500				
07/21/2015		03:40:23		411		0.4		8.29		5.3		0						
07/21/2015		03:42:23		2389		0.1		8.29		5.6		0						
07/21/2015		03:43:00		5268		0.1		8.29		5.7		0		High Test = 5000 psi				
07/21/2015		03:44:23		5231		0.1		8.29		5.8		0						
07/21/2015		03:45:00		5221		0.1		8.29		5.9		0		Test good				
07/21/2015		03:46:23		11		0.1		8.29		6.1		0						
07/21/2015		03:48:23		8		0.1		8.29		6.3		0						
07/21/2015		03:50:23		4		0.1		8.29		6.6		0						
07/21/2015		03:50:48		4		0.1		8.29		6.6		0		Start Pumping Spacer				
07/21/2015		03:52:00		81		2.2		11.09		8.0		23		80 bbls MUDPUSH Express, 11.2 ppg				
07/21/2015		03:52:23		148		2.1		11.15		8.8		23						
07/21/2015		03:54:23		267		4.6		10.98		17.2		30						

Well			Field		Job Start		Customer		Job Number
Viper Pyro 16N-10HZ 16N-10HZ			Wattenberg		Jul/21/2015		Anadarko		D5VO-00684
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
07/21/2015	03:58:23	225	4.6	10.74	35.6	32			
07/21/2015	04:00:23	200	4.6	10.74	44.9	34			
07/21/2015	04:02:23	200	4.6	10.93	54.1	30			
07/21/2015	04:04:23	188	4.7	11.02	63.4	26			
07/21/2015	04:06:23	174	4.7	11.13	72.7	24			
07/21/2015	04:07:00	160	4.6	11.15	75.6	23	End Spacer		
07/21/2015	04:08:00	155	4.6	11.14	80.2	23	Drop Bottom Plug		
07/21/2015	04:08:23	159	4.7	11.16	82.0	23			
07/21/2015	04:10:23	143	4.7	11.17	91.3	26			
07/21/2015	04:12:23	-15	0.2	11.52	92.7	0			
07/21/2015	04:13:44	-15	0.0	11.37	92.7	0	Reset Total, Vol = 86.12 bbl		
07/21/2015	04:14:23	60	2.2	12.05	93.9	3			
07/21/2015	04:16:00	204	4.7	11.88	99.7	12	Start Mixing Lead Slurry		
07/21/2015	04:16:23	202	4.7	11.87	101.5	14			
07/21/2015	04:18:23	211	4.6	11.89	110.7	20			
07/21/2015	04:20:00	217	4.6	11.90	118.2	22	840 sks 12 ppg lead, Y = 1.79		
07/21/2015	04:20:23	215	4.7	11.90	120.0	22			
07/21/2015	04:21:00	216	4.7	11.89	122.9	23	Wet and dry samples taken		
07/21/2015	04:22:00	226	4.6	11.94	127.5	24	Mud scale = 12 ppg		
07/21/2015	04:22:23	220	4.7	11.96	129.3	24			
07/21/2015	04:23:00	217	4.7	11.93	132.2	23	Tie # 7383		
07/21/2015	04:24:23	389	6.6	11.89	138.7	19			
07/21/2015	04:26:23	405	6.6	11.93	151.8	22			
07/21/2015	04:28:23	408	6.6	11.93	165.0	24			
07/21/2015	04:30:23	390	6.6	11.89	178.1	24			
07/21/2015	04:32:23	392	6.6	11.92	191.2	24			
07/21/2015	04:34:23	398	6.6	11.92	204.4	25			
07/21/2015	04:36:23	393	6.6	11.93	217.5	24			
07/21/2015	04:38:23	400	6.6	11.93	230.7	24			
07/21/2015	04:40:23	391	6.6	11.94	243.9	24			
07/21/2015	04:42:23	399	6.6	11.94	257.0	24			
07/21/2015	04:44:23	402	6.6	11.93	270.2	25			
07/21/2015	04:46:23	403	6.6	11.94	283.4	24			
07/21/2015	04:48:23	402	6.6	11.92	296.5	24			
07/21/2015	04:50:23	393	6.6	11.94	309.7	24			
07/21/2015	04:52:23	398	6.6	11.92	322.9	24			
07/21/2015	04:53:00	391	6.6	11.89	327.0	24	End Lead Slurry		
07/21/2015	04:54:23	398	6.6	11.95	336.1	24			
07/21/2015	04:56:23	400	6.6	11.95	349.2	24			
07/21/2015	04:58:23	393	6.6	11.96	362.4	24			
07/21/2015	05:00:23	211	4.6	11.88	374.8	18			
07/21/2015	05:02:23	-7	0.0	11.77	380.6	0			
07/21/2015	05:04:23	-9	0.0	11.70	380.6	0			
07/21/2015	05:05:18	-9	0.0	11.69	380.6	0	Reset Total, Vol = 287.88 bbl		
07/21/2015	05:06:23	326	4.6	13.31	383.4	13			
07/21/2015	05:08:23	550	6.5	13.32	394.5	26			
07/21/2015	05:10:23	577	6.5	13.38	407.6	29			
07/21/2015	05:12:23	559	6.5	13.31	420.6	32			
07/21/2015	05:14:23	534	6.5	13.21	433.7	32			
07/21/2015	05:15:00	531	6.6	13.15	437.8	32	Start Mixing Tail Slurry		
07/21/2015	05:16:23	532	6.5	13.26	446.8	33			
07/21/2015	05:18:23	309	4.6	13.29	459.3	34			
07/21/2015	05:20:00	197	3.3	13.34	465.3	27	950 sks 13.5 ppg tail, Y = 1.68		
07/21/2015	05:20:23	187	3.4	13.36	466.6	28			

Well			Field		Job Start		Customer		Job Number
Viper Pyro 16N-10HZ 16N-10HZ			Wattenberg		Jul/21/2015		Anadarko		D5VO-00684
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
07/21/2015	05:24:23	557	6.5	13.38	488.5	33			
07/21/2015	05:26:23	610	6.5	13.57	501.6	34			
07/21/2015	05:28:23	632	6.5	13.63	514.6	35			
07/21/2015	05:30:23	620	6.5	13.54	527.7	34			
07/21/2015	05:32:23	577	6.5	13.49	540.8	34			
07/21/2015	05:34:23	581	6.5	13.45	553.9	34			
07/21/2015	05:36:23	367	6.5	13.37	566.9	33			
07/21/2015	05:38:23	297	4.6	13.19	576.3	24			
07/21/2015	05:40:23	548	6.5	13.31	587.6	31			
07/21/2015	05:42:23	561	6.5	13.32	600.7	33			
07/21/2015	05:44:23	551	6.5	13.31	613.8	33			
07/21/2015	05:46:23	561	6.6	13.36	626.9	33			
07/21/2015	05:48:23	558	6.5	13.30	640.0	33			
07/21/2015	05:50:00	609	6.5	13.46	650.5	34	End Tail Slurry		
07/21/2015	05:50:23	579	6.5	13.46	653.0	34			
07/21/2015	05:52:23	587	6.5	13.48	666.1	35			
07/21/2015	05:54:23	578	6.6	13.47	679.2	35			
07/21/2015	05:56:23	10	0.0	13.58	688.1	0			
07/21/2015	05:58:23	3	0.0	12.64	688.1	69			
07/21/2015	06:00:23	25	1.4	10.27	689.8	69			
07/21/2015	06:02:23	18	1.8	8.44	693.1	69			
07/21/2015	06:04:00	63	2.7	9.03	695.2	2	Wash up		
07/21/2015	06:04:23	4	1.3	11.39	696.2	1			
07/21/2015	06:05:00	45	2.3	9.48	697.3	0	Drop Top Plug		
07/21/2015	06:06:23	21	1.0	8.78	699.1	16			
07/21/2015	06:08:23	14	0.0	3.65	705.6	17			
07/21/2015	06:10:23	4	0.2	8.61	708.1	0			
07/21/2015	06:12:00	6	0.2	8.35	719.1	0	290.8 bbls biocide displacement, good returns		
07/21/2015	06:12:23	81	7.8	8.49	719.8	0			
07/21/2015	06:14:23	5	0.2	8.30	730.3	0			
07/21/2015	06:16:23	5	0.5	8.30	731.2	0			
07/21/2015	06:18:23	70	0.9	8.29	732.1	0			
07/21/2015	06:20:23	122	5.2	8.29	738.9	0			
07/21/2015	06:22:23	218	7.2	8.29	751.9	0			
07/21/2015	06:24:23	742	7.1	8.29	761.7	0			
07/21/2015	06:26:23	776	7.1	8.29	775.9	0			
07/21/2015	06:28:23	898	7.1	8.29	790.1	0			
07/21/2015	06:30:23	1014	7.0	8.29	804.2	0			
07/21/2015	06:32:23	1133	7.0	8.29	818.2	0			
07/21/2015	06:34:23	1289	7.0	8.29	832.3	0			
07/21/2015	06:36:23	1446	7.0	8.29	846.4	0			
07/21/2015	06:38:23	1593	7.0	8.29	860.5	0			
07/21/2015	06:40:23	1756	7.0	8.29	874.5	0			
07/21/2015	06:42:23	1877	7.0	8.29	888.5	0			
07/21/2015	06:44:23	2037	7.0	8.29	902.5	0			
07/21/2015	06:46:23	2177	7.0	8.29	916.5	0			
07/21/2015	06:48:23	2247	7.0	8.29	930.4	0			
07/21/2015	06:50:23	2276	6.9	8.29	944.3	0			
07/21/2015	06:52:23	2323	7.0	8.29	958.2	0			
07/21/2015	06:54:23	2333	7.0	8.29	972.1	0			
07/21/2015	06:56:23	2382	6.9	8.29	986.1	0			
07/21/2015	06:58:23	2371	6.7	8.29	999.5	0			
07/21/2015	07:00:00	2384	6.6	8.28	1010.2	0	45 bbls cement to surface		
07/21/2015	07:00:23	2384	6.6	8.29	1012.8	0			

Well			Field		Job Start		Customer		Job Number
Viper Pyro 16N-10HZ 16N-10HZ			Wattenberg		Jul/21/2015		Anadarko		D5VO-00684
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
07/21/2015	07:04:23	2170	4.9	8.29	1039.1	0			
07/21/2015	07:06:23	2133	4.1	8.29	1047.4	0			
07/21/2015	07:08:23	1923	2.1	8.29	1052.1	0			
07/21/2015	07:10:23	1947	2.1	8.29	1056.3	0			
07/21/2015	07:12:23	2416	2.1	8.29	1060.5	0			
07/21/2015	07:14:23	2517	0.0	8.30	1060.8	0			
07/21/2015	07:15:00	2477	0.0	8.30	1060.8	0	Bump Top Plug		
07/21/2015	07:16:23	10	0.0	8.30	1060.8	0			
07/21/2015	07:17:00	595	2.8	8.30	1061.4	0	Bleed off, check floats		
07/21/2015	07:18:23	3039	0.0	8.30	1064.5	0			
07/21/2015	07:19:00	3078	0.0	8.30	1064.5	0	Start Casing Test		
07/21/2015	07:20:23	3073	0.0	8.30	1064.5	0			
07/21/2015	07:22:23	3102	0.0	8.30	1064.5	0			
07/21/2015	07:24:23	3138	0.0	8.30	1064.5	0			
07/21/2015	07:26:23	3174	0.0	8.30	1064.5	0			
07/21/2015	07:28:23	3207	0.0	8.30	1064.5	0			
07/21/2015	07:30:23	3240	0.0	8.30	1064.5	0			
07/21/2015	07:32:23	3270	0.0	8.30	1064.5	0			
07/21/2015	07:34:23	3301	0.0	8.30	1064.5	0			
07/21/2015	07:36:23	3331	0.0	8.30	1064.5	0			
07/21/2015	07:38:23	1563	0.0	8.30	1064.5	0			
07/21/2015	07:39:00	29	0.0	8.30	1064.5	0	Test good, bleed off		
07/21/2015	07:40:00	5	0.0	8.30	1064.5	0	2.5 bbls back		
07/21/2015	07:40:23	3	0.0	8.30	1064.5	0			
07/21/2015	07:42:23	1	0.0	8.30	1064.7	0			

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl							
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2				
Treating Pressure Summary, psi				Breakdown Fluid							
Maximum	Final 0	Average	Bump Plug to 2200	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement bbl	Mix Water Temp 70 degF	Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume bbl				
				Washed Thru Perfs		<input type="checkbox"/>	To ft				
Customer or Authorized Representative Ryan Rhodes			Schlumberger Supervisor Langley/Terry			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				



Service Quality Evaluation

Client:	Anadarko
Field:	Wattenberg
Rig:	Precision 462
Well:	Viper Pyro 16N-10HZ
Service Line:	Cementing
Job Type:	5.5" Monobore

Service Order #:	
Date:	Jul/21/2015
Operating Time (hh:mm):	00:00
Client Rep:	Ryan Rhodes
Schlumberger Engineer:	Langley/Terry
Schlumberger FSM:	Dan Joelson

Main Objective: Cement 5.5" Monobore

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 5
1b	Free of environmental spill or non-compliant discharge	5	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 5
1c	Wellsite left clean	4	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 3
2b	Equipment maintenance schedule completed / Green tagged	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
2c	All materials and equipment required for job/contingency checked & on location	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
2d	Safety / pre-job meeting conducted with all involved present	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 3
3b	Equipment pressure tested succesfully	3	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
3d	Plugs / darts released and tested succesfully	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
3e	Density variation met expectations	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
3f	Personnel performed as per expectations	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
3g	Equipment performed as per expectations	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
3h	Job pumped as per design	3	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 3
3i	Did job start on time	2	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 3
Sub-total					100%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes	<input checked="" type="checkbox"/>	no <input type="checkbox"/> 10
Sub-total					100%

Total 100%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: