



Pumping Service Report

9203749

Client Name Anadarko Petroleum Corporation	Well Name Rusch 34-15	Rig Key 104	Job Date May 27, 2015	Call Sheet 1058007
Client Representative Mr. Traux Deal	Surface Well Location NW SE Sec 15:T3N:R67W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Ripka, Robert (23825)

Well Profile

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
26.000	--	22.000	90.000	--	--

Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
48.000	0.000		--	--	--	--	--	0.0	22.0
13.375	54.500		--	--	--	--	--	0.0	90.0

Products

Plug 1

From Depth (ft): 86

To Depth (ft): 4

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 375 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 89 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 64 , Slurry Temperature(°F) = 68

- + 0.5 % of CaCl₂ (Preblend),
- + 0.3 % of CFR-2 (Preblend),
- + 0.3 % of CFL-3 (Preblend),
- + 0.4 % of CDF-4P (Preblend),
- + 0.25 % of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	13.375	Sanjel



Pumping Service Report

9203749

Units & Personnel							
Units							
<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
201017	PICKUP	1 Ton	449087	TRAILER	Utility Trailer	05/27/2015 10:00	05/27/2015 13:55
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	05/27/2015 10:00	05/27/2015 13:55
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	05/27/2015 10:00	05/27/2015 13:55
201274	PICKUP	3/4 Ton	379015	TRAILER	Utility Trailer	05/27/2015 10:00	05/27/2015 13:55
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>		<u>Second Start Shift</u>		<u>Second End Shift</u>
Ripka, Robert (23825)	05/27/2015 10:00		05/27/2015 13:55				
Joyner, Barlen (28603)	05/27/2015 10:00		05/27/2015 13:55				
Svoboda, Miloslav (28226)	05/27/2015 10:00		05/27/2015 13:55				
Melgarejo Herrera, Eduardo (26606)	05/27/2015 10:00		05/27/2015 13:55				
Martinez, Fernando (28421)	05/27/2015 10:00		05/27/2015 13:55				



Pumping Service Report

9203749

Treatment Reports & Remarks

Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	May 27,2015 10:00	Arrive On Location		--	--	--	--	0.00
2	May 27,2015 10:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	May 27,2015 11:18	Rig in Complete		--	--	--	--	0.00
4	May 27,2015 11:22	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	May 27,2015 11:54	Pressure Test Start		--	2,000.0	--	--	0.00
6	May 27,2015 11:56	Pressure Test Complete		--	--	--	--	0.00
7	May 27,2015 11:58	Establish Circulation	Water	2.00	0.0	--	6.00	6.00
8	May 27,2015 12:02	Mix Cement	0:1:0 Type III	2.00	0.0	--	89.00	95.00
		Remarks: 375 SKS Y-1.33 W-6.31						
9	May 27,2015 12:43	Drop Plug	Water	--	--	--	--	95.00
		Remarks: DISPLACE PLUG DOWN 60 FEET						
10	May 27,2015 12:45	Displace Fluid	Water	1.20	10.0	--	9.30	104.30
11	May 27,2015 12:55	Stop		--	--	--	--	104.30
12	May 27,2015 13:15	Rig Out		--	--	--	--	104.30
13	May 27,2015 13:45	Job Complete		--	--	--	--	104.30
14	May 27,2015 13:55	Leave Location		--	--	--	--	104.30

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 5

Temperature (°F) : 67

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

57961



Cementing Service Report

				Customer Anadarko				Job Number CWIN-01139											
Well Rusch 34-15				Location (legal)				Schlumberger Location				Job Start Jun/08/2015							
Field Wattenberge				Formation Name/Type				Deviation deg		Bit Size 12.3 in		Well MD ft		Well TVD ft					
County Weld				State/Province Colorado				BHP psi		BHST 84 degF		BHCT 80 degF		Pore Press. Gradient lb/gal					
Well Master 0631638721				API/UWI 05123212340000															
Rig Name Ensign 145		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		165.0		9.6		36.0		J55		8RD					
						0.0		0.0		0.0									
Drilling Fluid Type				Max. Density 9.00 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
								T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type 9 5/8 Surface																	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		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 10 bbl Water 18 bbl 15.8 Tail - 86 sks -1.16 yield Displace 10 bbl Water								Treat Down Casing		Displacement 10.0 bbl		Packer Type		Packer Depth ft					
								Tubing Vol. bbl		Casing Vol. 13.0 bbl		Annular Vol. 10.0 bbl		Openhole Vol. 37.0 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 82 psi								Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>				Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 165.0 ft				Tool Type							
No. Centralizers				Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft							
Cement Head Type Single								Stage Tool Depth ft				Tail Pipe Size in							
Job Scheduled For Jun/08/2015				Arrived on Location Jun/08/2015		Leave Location Jun/08/2015		Collar Type Float				Tail Pipe Depth ft							
								Collar Depth 125.0 ft				Sqr. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message													
06/08/2015	14:52:32	10	0.0	8.63	0.0	Started Acquisition													
06/08/2015	14:52:33	11	0.0	8.63	0.0	10 bbl Water													
06/08/2015	14:52:35	10	0.0	8.63	0.0	Start Job													
06/08/2015	14:52:37	10	0.0	8.63	0.0	Pressure Test Lines													
06/08/2015	14:52:39	10	0.0	8.63	0.0	Low Test 500 psi													
06/08/2015	14:52:40	10	0.0	8.63	0.0	Test Good													
06/08/2015	14:54:32	10	0.0	8.63	0.0														
06/08/2015	14:55:00	17	0.0	8.54	0.0	Start Pumping Spacer													
06/08/2015	14:56:32	71	3.4	8.38	2.8														
06/08/2015	14:58:32	20	0.0	8.38	10.3														
06/08/2015	15:00:32	1110	0.0	8.38	10.3														
06/08/2015	15:02:32	1037	0.0	8.39	10.3														
06/08/2015	15:04:32	3305	0.0	8.39	10.3														
06/08/2015	15:06:32	3345	0.0	8.39	10.3														
06/08/2015	15:08:32	19	0.0	8.39	10.3														
06/08/2015	15:09:00	19	0.0	8.38	10.3	End Spacer													
06/08/2015	15:10:00	92	2.3	16.01	11.9	Start Cement Slurry													
06/08/2015	15:10:32	93	2.3	15.74	13.1														
06/08/2015	15:12:32	88	2.3	15.88	17.7														
06/08/2015	15:14:32	88	2.2	16.27	22.2														
06/08/2015	15:16:32	101	2.3	15.78	26.7														

Well			Field		Job Start		Customer		Job Number	
Rusch 34-15			Wattenberge		Jun/08/2015		Anadarko		CWJN-01139	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
06/08/2015	15:18:32	23		0.0	12.81		27.2			
06/08/2015	15:19:00	22		0.0	11.64		27.2		Drop Top Plug	
06/08/2015	15:20:32	25		0.7	8.40		27.9			
06/08/2015	15:22:32	96		3.4	8.41		31.9			
06/08/2015	15:24:00	89		2.0	8.40		36.1		Bump Top Plug	
06/08/2015	15:24:32	98		2.0	8.40		37.1			
06/08/2015	15:26:32	1559		0.0	8.40		37.4			
06/08/2015	15:28:00	1564		0.0	8.41		37.4		Bleed Off Floats Held	
06/08/2015	15:28:32	1336		0.0	8.41		37.4			
06/08/2015	15:30:32	13		0.0	8.41		37.4			
06/08/2015	15:32:32	11		0.0	8.41		37.4			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
2.3			4.6	39.3	0.0	38.8		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
3587	11	606	1500			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume		
%	0.0 bbl		0.1 bbl	65 degF	<input checked="" type="checkbox"/>	bbl		
					Washed Thru Perfs	To		
					<input type="checkbox"/>	ft		
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost	Job Completed	
			Jordan Moreland / Stacy Terry			<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						-	-	

Cementing Service Report

				Customer APC				Job Number 2150903			
Well Rusch 34-15 34-15			Location (legal) CWY			Schlumberger Location CWY			Job Start Jun/14/2015		
Field Wattenberg		Formation Name/Type		Deviation deg		Bit Size in		Well MD 420.0 ft		Well TVD 420.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 80 degF		BHCT 80 degF		Pore Press. Gradient lb/gal	
Well Master 0631638721		API/UWI 05123212340000									
Rig Name Ensign 145		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		420.0		2.9		6.5	
						0.0		0.0		N80	
										8RD	
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 ft	
						ft		ft			
						ft		ft		Diameter in	
						ft		ft			
						Treat Down Drill Pipe		Displacement 0.6 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl	
										Openhole Vol. bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input 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 Jun/14/2015 18:30		Arrived on Location Jun/14/2015 18:30		Leave Location Jun/14/2015 23:00		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					
06/14/2015	20:31:59	-2	0.0	8.32	0.0	Started Acquisition					
06/14/2015	20:32:01	-1	0.0	8.32	0.0	Rig UP					
06/14/2015	20:33:29	-6	0.0	8.32	0.0						
06/14/2015	20:34:00	-6	0.0	8.32	0.0	Flush Iines					
06/14/2015	20:34:59	15	1.4	8.32	0.0						
06/14/2015	20:36:00	15	1.6	8.32	2.0	Pressure Test Lines					
06/14/2015	20:36:29	24	0.0	8.32	2.0						
06/14/2015	20:37:00	23	0.0	8.32	2.0	Low 740 PSI = Good					
06/14/2015	20:37:59	692	0.0	8.32	2.0						
06/14/2015	20:39:00	783	0.0	8.32	2.0	High 2000 PSI = Good					
06/14/2015	20:39:29	1751	0.0	8.32	2.1						
06/14/2015	20:40:59	1904	0.0	8.32	2.1						
06/14/2015	20:42:29	-5	0.0	8.32	2.1						
06/14/2015	20:43:00	27	0.0	8.32	2.1	Pump 10 BBLS H2O					
06/14/2015	20:43:59	78	2.4	8.32	3.5						
06/14/2015	20:45:29	69	2.4	8.32	7.0						
06/14/2015	20:46:59	25	0.0	8.33	0.0						
06/14/2015	20:48:29	38	0.0	8.32	0.0						
06/14/2015	20:49:59	37	0.0	8.33	0.0						
06/14/2015	20:51:29	43	0.0	8.33	0.0						
06/14/2015	20:52:59	42	0.0	8.32	0.0						

Well			Field	Job Start	Customer	Job Number
Rusch 34-15 34-15			Wattenberg	Jun/14/2015	APC	2150903
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/14/2015	20:55:59	41	0.0	8.32	0.0	
06/14/2015	20:57:29	94	2.8	15.37	2.9	
06/14/2015	20:58:59	95	2.8	15.63	7.1	
06/14/2015	20:59:00	94	2.8	15.64	7.1	Start Cement Slurry
06/14/2015	20:59:02	95	2.8	15.64	7.2	Start Mixing Lead Slurry
06/14/2015	20:59:05	94	2.8	15.65	7.4	Pump 23.2 BBLS 15.8 PPG Slurry
06/14/2015	21:00:00	96	2.8	15.79	9.9	Take Dry Sample = 008716
06/14/2015	21:00:29	95	2.8	15.80	11.2	
06/14/2015	21:01:59	102	3.2	15.79	15.9	
06/14/2015	21:03:29	102	3.1	15.98	20.7	
06/14/2015	21:04:00	100	3.2	15.83	22.3	End Lead Slurry
06/14/2015	21:04:01	102	3.2	15.83	22.4	Pump . 6 BBLS H2O
06/14/2015	21:04:59	-11	0.0	15.36	24.0	
06/14/2015	21:05:00	-10	0.0	15.36	24.0	Open Bleeds Suction
06/14/2015	21:06:29	-5	0.0	15.70	24.0	
06/14/2015	21:07:59	-3	0.0	16.02	24.0	
06/14/2015	21:09:29	-3	0.0	16.13	24.0	
06/14/2015	21:10:59	-6	0.0	16.19	24.0	
06/14/2015	21:12:29	-7	0.0	16.25	24.0	
06/14/2015	21:13:59	-7	0.0	16.31	24.0	
06/14/2015	21:15:29	-7	0.0	16.35	24.0	
06/14/2015	21:16:59	-8	0.0	15.68	0.0	
06/14/2015	21:18:29	44	2.7	14.53	2.7	
06/14/2015	21:19:59	18	0.0	15.19	3.0	
06/14/2015	21:21:29	17	0.0	14.86	3.0	
06/14/2015	21:22:59	17	0.0	12.85	3.0	
06/14/2015	21:24:29	16	0.0	9.64	3.0	
06/14/2015	21:25:59	86	3.3	9.85	6.2	
06/14/2015	21:27:29	44	2.5	9.60	10.1	
06/14/2015	21:28:59	55	2.9	8.76	13.9	
06/14/2015	21:30:29	4	2.7	12.70	18.0	
06/14/2015	21:31:59	23	2.5	9.00	21.8	
06/14/2015	21:33:29	89	4.1	8.68	24.1	
06/14/2015	21:34:59	-6	0.0	8.35	26.8	
06/14/2015	21:36:29	16	0.0	0.39	27.6	
06/14/2015	21:37:59	-5	0.0	-0.01	27.6	
06/14/2015	21:39:29	188	1.8	8.33	28.3	
06/14/2015	21:40:59	16	0.0	8.33	30.2	
06/14/2015	21:42:29	32	9.6	10.13	30.5	
06/14/2015	21:43:59	-5	0.0	8.51	32.9	
06/14/2015	21:45:29	-5	0.1	8.36	33.0	
06/14/2015	21:46:59	-4	0.1	8.36	33.1	
06/14/2015	21:48:29	-4	0.1	8.34	33.2	
06/14/2015	21:49:59	-4	0.1	8.34	33.3	
06/14/2015	21:51:29	-4	0.1	8.34	33.4	

Well Rusch 34-15 34-15	Field Wattenberg	Job Start Jun/14/2015	Customer APC	Job Number 2150903
----------------------------------	----------------------------	---------------------------------	------------------------	------------------------------

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 1.8	N2	Mud	Maximum Rate 11.7	Total Slurry 23.2	Mud 0.0	Spacer 10.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 1957	Final -4	Average 183	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 23.2 bbl	Displacement 0.6 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 Dalton King			Schlumberger Supervisor Conley Jensen			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



Service Order #:	
Date:	Jun/14/2015
Operating Time (hh:mm):	00:00
Client Rep:	Dalton King
Schlumberger Engineer:	Conley Jensen
Schlumberger FSM:	

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

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

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

Client:	Schlumberger:
Client Signature:	Schlumberger Signature:

Cementing Service Report

				Customer Anadarko				Job Number D2IK-01079			
Well Rusch 34-15			Location (legal)			Schlumberger Location			Job Start Jun/23/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 9.0 in		Well MD 7006.0 ft		Well TVD 7006.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 225 degF		BHCT 182 degF		Pore Press. Gradient lb/gal	
Well Master 0631638721		API/UWI 05123212340000									
Rig Name Ensign #145		Drilled For Gas		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		165.0		9.6		36.0	
						0.0		0.0		J55	
										8RD	
Drilling Fluid Type Other		Max. Density 10.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type P&A				D		6072.0		4.0	
						T		7006.0		2.9	
										14.0	
										6.5	
Max. Allowed Tub. Press 500 psi		Max. Allowed Ann. Press psi		WH Connection Rig drill pin		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Drill Pipe		Displacement 56.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. 66.0 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 Jun/23/2015 05:30		Arrived on Location Jun/23/2015 05:30		Leave Location Jun/23/2015 18:30		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					
06/23/2015	10:51:14	-1	0.0	8.36	0.0	Started Acquisition					
06/23/2015	10:51:16	-1	0.0	8.36	0.0	Start Job					
06/23/2015	10:56:14	-0	0.0	8.36	0.0						
06/23/2015	10:57:59	2	0.0	8.29	0.4	Pump 5bbl mud					
06/23/2015	11:01:14	277	1.5	10.45	2.9						
06/23/2015	11:03:52	1014	0.0	10.10	5.1	Pressure Test Lines 1000psi					
06/23/2015	11:06:14	763	0.0	9.04	5.1						
06/23/2015	11:11:01	363	2.3	10.48	5.8	Pumping Mud push					
06/23/2015	11:11:14	219	2.3	11.57	6.3						
06/23/2015	11:16:14	353	3.3	12.04	21.7						
06/23/2015	11:19:46	159	2.6	11.84	33.0	End 25bbl mud push					
06/23/2015	11:19:50	9	1.6	11.82	33.2	Reset Total, Vol = 33.26 bbl					
06/23/2015	11:20:02	-3	0.0	11.81	33.3	Drop wiper ball					
06/23/2015	11:21:14	-7	0.0	11.80	33.3						
06/23/2015	11:25:45	137	1.6	14.86	33.9	Start Mixing 1st plug Slurry					
06/23/2015	11:26:14	213	2.3	15.84	34.9						
06/23/2015	11:31:14	232	4.1	15.82	51.1						
06/23/2015	11:36:14	240	4.5	15.84	73.7						
06/23/2015	11:41:14	138	3.4	15.82	91.4						
06/23/2015	11:45:12	4	0.0	15.87	104.5	End 1st plug Slurry					
06/23/2015	11:45:21	5	0.0	15.87	104.5	Reset Total, Vol = 71.26 bbl					

Well			Field	Job Start		Customer	Job Number	
Rusch 34-15			Wattenberg		Jun/23/2015		Anadarko	D2IK-01079
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/23/2015	11:45:40	6	0.0	15.89	104.5	Start Displacement		
06/23/2015	11:46:14	2	0.0	15.91	104.5			
06/23/2015	11:50:03	45	1.3	13.58	104.8	Pumping 5bbl mud push		
06/23/2015	11:51:14	50	3.2	11.87	108.2			
06/23/2015	11:52:07	74	3.8	10.61	111.1	Pumping mud		
06/23/2015	11:56:14	78	4.2	10.46	128.6			
06/23/2015	12:01:14	53	4.2	10.43	149.7			
06/23/2015	12:04:16	-4	0.0	10.52	159.3	End Displacement		
06/23/2015	12:06:14	-3	0.0	10.48	159.4			
06/23/2015	12:08:03	45	2.4	10.44	160.2	Caught pressure cut displacemnt about 10bbl short		
06/23/2015	12:08:12	45	2.4	10.44	160.6	Reset Total, Vol = 56.16 bbl		
06/23/2015	12:08:37	77	2.8	10.44	161.6	Clean up pump		
06/23/2015	12:11:14	41	2.5	8.32	167.3			
06/23/2015	12:13:00	-2	0.0	8.49	171.4	End Clean up		
06/23/2015	12:14:07	1	0.0	8.49	171.4	Mix D500 into water truck		
06/23/2015	12:16:14	2	0.0	8.39	171.5			
06/23/2015	14:11:14	-4	0.2	8.38	185.6			
06/23/2015	15:56:14	-2	0.2	8.38	209.7			
06/23/2015	16:00:04	-2	0.2	8.38	210.6	Start 2nd plug		
06/23/2015	16:01:14	-3	0.2	8.38	210.9			
06/23/2015	16:06:14	8	0.1	8.35	212.9			
06/23/2015	16:11:14	522	4.6	10.38	217.5			
06/23/2015	16:11:40	452	4.6	10.38	219.5	Establish circulation		
06/23/2015	16:13:26	81	0.0	10.28	221.5	Got circulation at about 3bbl away		
06/23/2015	16:13:36	87	0.0	10.25	221.5	Reset Total, Vol = 14.42 bbl		
06/23/2015	16:16:14	94	0.0	9.56	221.6			
06/23/2015	16:21:14	95	0.0	9.32	221.6			
06/23/2015	16:25:48	184	2.1	10.39	221.7	Pumping Mud push		
06/23/2015	16:26:14	255	2.3	12.03	222.7			
06/23/2015	16:31:14	143	2.3	12.04	234.3			
06/23/2015	16:36:14	78	2.5	11.93	246.1			
06/23/2015	16:38:01	-6	0.0	12.47	249.5	End Mud push		
06/23/2015	16:40:08	-9	0.0	12.40	249.5	Drop wiper balll		
06/23/2015	16:41:14	-5	0.0	12.39	249.5			
06/23/2015	16:44:23	131	2.3	15.47	251.3	Start Mixing 2nd plug Slurry		
06/23/2015	16:44:29	219	3.2	15.51	251.6	Reset Total, Vol = 30.08 bbl		
06/23/2015	16:46:14	133	3.2	16.04	257.0			
06/23/2015	16:51:14	217	4.5	15.87	278.7			
06/23/2015	16:56:14	232	4.5	15.92	301.4			
06/23/2015	17:01:14	223	4.5	15.79	324.0			
06/23/2015	17:06:14	161	4.5	15.83	346.8			
06/23/2015	17:11:14	228	4.6	15.45	369.7			
06/23/2015	17:14:37	-6	0.0	15.67	382.7	End Lead Slurry		
06/23/2015	17:14:43	-6	0.0	15.67	382.7	Reset Total, Vol = 131.04 bbl		
06/23/2015	17:14:56	-5	0.0	15.66	382.7	Drop wiper ball		
06/23/2015	17:16:14	-5	0.0	15.66	382.7			
06/23/2015	17:19:41	-7	1.5	9.34	385.6	Reset Total, Vol = 3.00 bbl		
06/23/2015	17:19:48	-4	1.5	9.11	385.8	Start Displacement		
06/23/2015	17:21:04	39	1.7	11.06	387.7	Pumping mud		
06/23/2015	17:21:14	58	3.6	10.31	388.3			
06/23/2015	17:26:14	387	4.6	10.43	410.8			
06/23/2015	17:26:48	-7	0.5	10.49	412.5	End Displacement		
06/23/2015	17:31:14	-5	0.2	10.51	413.3			

Well Rusch 34-15	Field Wattenberg	Job Start Jun/23/2015	Customer Anadarko	Job Number D2IK-01079
----------------------------	----------------------------	---------------------------------	-----------------------------	---------------------------------

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 1.1	N2	Mud	Maximum Rate 8.9	Total Slurry 201.0	Mud 0.0	Spacer 58.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 1048	Final 66	Average 153	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 201.0 bbl	Displacement 56.0 bbl	Mix Water Temp 84 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Tim Joubert			Schlumberger Supervisor Chris Valerio			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	

				Customer Andarko			Job Number D2IK-01079	
Well Rusch 34-15			Location (legal)			Schlumberger Location		Job Start Jun/24/2015
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 12.0 in		Well MD 1000.0 ft
County Weld		State/Province Colorado		BHP psi		BHST 83 degF		BHCT 80 degF
Well Master 0631638721		API/UWI 05123212340000						Pore Press. Gradient lb/gal
Rig Name Ensign #145		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		165.0		9.6
						36.0		J55
						0.0		8RD
Drilling Fluid Type Other		Max. Density 10.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe		
						T/D	Depth, ft	Size, in
								Weight, lb/ft
								Grade
								Thread
Service Line Cementing		Job Type P&A				D	66.0	4.0
								14.0
						T	1000.0	2.9
								6.5
Max. Allowed Tub. Press 1000 psi		Max. Allowed Ann. Press psi		WH Connection Rig drill pin		Perforations/Open Hole		
						Top, ft	Bottom, ft	shot/ft
								No. of Shots
								Total Interval
						ft	ft	ft
						ft	ft	Diameter
						ft	ft	in
						Treat Down Drill Pipe	Displacement 2.2 bbl	Packer Type
								Packer Depth
								ft
						Tubing Vol. 5.4 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
								Tool Depth ft
Cement Head Type						Stage Tool Depth ft		Tail Pipe Size in
Job Scheduled For Jun/23/2015 05:30		Arrived on Location Jun/23/2015 05:30		Leave Location Jun/24/2015 18:00		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		
06/24/2015	13:38:12	-22	0.0	8.31	0.0	Started Acquisition		
06/24/2015	13:39:49	-23	0.0	8.31	0.0	Start 3rd plug		
06/24/2015	13:42:29	-5	0.3	8.33	0.0	Start pumping 20bbl water		
06/24/2015	13:43:12	-3	0.0	8.33	0.2			
06/24/2015	13:48:09	1058	0.0	8.32	5.1	Pressure Test Lines 1000psi		
06/24/2015	13:48:12	1055	0.0	8.32	5.1			
06/24/2015	13:50:09	84	0.0	8.31	5.2	Finish 20bbl water		
06/24/2015	13:53:12	172	3.3	8.30	13.6			
06/24/2015	13:55:23	105	0.0	8.30	20.2	Reset Total, Vol = 20.65 bbl		
06/24/2015	13:58:12	96	0.0	8.30	20.3			
06/24/2015	13:59:01	182	2.3	15.61	21.6	Pumping 3rd plug Slurry		
06/24/2015	14:03:12	115	4.0	15.82	37.6			
06/24/2015	14:08:12	115	4.1	15.84	57.9			
06/24/2015	14:13:12	116	4.1	15.81	78.4			
06/24/2015	14:18:12	119	3.9	15.78	98.5			
06/24/2015	14:19:49	5	0.2	15.69	104.6	End 3rd plug Slurry		
06/24/2015	14:19:56	5	0.1	15.70	104.6	Start Displacement		
06/24/2015	14:20:00	8	0.2	15.70	104.6	Reset Total, Vol = 84.40 bbl		
06/24/2015	14:21:01	-5	0.8	8.69	106.5	End Displacement		
06/24/2015	14:23:12	-5	0.6	10.33	107.8			
06/24/2015	14:24:09	-7	1.9	12.90	108.7	Clan up pump		

Well			Field		Job Start	Customer		Job Number
Rusch 34-15			Wattenberg		Jun/24/2015	Andarko		D2IK-01079
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/24/2015	14:31:44		-1	0.3	8.37	129.3	End clean up	
06/24/2015	14:31:49		-2	0.3	8.37	129.3	Reset Total, Vol = 24.65 bbl	
06/24/2015	15:37:51		57	1.5	8.30	136.2	Start 4th plug	
06/24/2015	15:38:07		57	1.2	8.30	136.6	Pumping 10bbl water	
06/24/2015	15:38:12		18	1.0	8.30	136.7		
06/24/2015	15:41:44		45	0.0	8.31	145.1	End 10bbl water	
06/24/2015	15:41:49		44	0.0	8.31	145.1	Reset Total, Vol = 10.69 bbl	
06/24/2015	15:43:12		38	0.0	8.31	145.1		
06/24/2015	15:47:51		114	2.9	15.60	145.9	Pumping 4th plug Slurry	
06/24/2015	15:48:12		116	3.6	15.86	147.0		
06/24/2015	15:53:12		110	4.1	15.91	167.1		
06/24/2015	15:58:12		110	4.1	15.80	187.5		
06/24/2015	16:00:26		12	0.4	15.93	195.5	Start Displacement	
06/24/2015	16:00:30		20	1.2	15.88	195.5	Reset Total, Vol = 50.43 bbl	
06/24/2015	16:01:25		-7	0.8	8.51	197.0	End Displacement	
06/24/2015	16:03:12		-1	0.5	8.32	198.1		
06/24/2015	16:04:17		-6	0.5	8.33	198.7	Reset Total, Vol = 3.13 bbl	
06/24/2015	16:04:29		-10	0.3	8.33	198.7	Clean up pump	
06/24/2015	16:08:12		65	3.4	9.18	209.7		
06/24/2015	16:10:54		-1	0.5	8.36	214.4	End Clean up	
06/24/2015	16:11:39		-1	0.5	8.34	214.8	Wait to roll hole	
06/24/2015	16:11:47		-1	0.5	8.33	214.9	Reset Total, Vol = 16.19 bbl	
06/24/2015	16:13:12		-0	0.3	8.33	216.4		
06/24/2015	16:18:12		-1	0.0	8.33	216.5		
06/24/2015	16:23:12		-0	0.0	8.33	216.7		
06/24/2015	16:41:10		1	0.0	8.33	217.5	Reset Total, Vol = 2.05 bbl	
06/24/2015	16:42:30		7	0.1	8.34	217.6	Rolling hole	
06/24/2015	16:43:12		63	3.4	8.32	218.8		
06/24/2015	16:48:08		1	0.0	8.31	237.8	End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 1.3	N2	Mud	Maximum Rate 6.3		Total Slurry 134.0	Mud 0.0	Spacer 0.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 1058	Final 1	Average 99	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 134.0 bbl		Displacement 1.9 bbl	Mix Water Temp 84 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Dylan King			Schlumberger Supervisor Chris Valerio			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	