



## Pumping Service Report

9206161

Client Name Anadarko Petroleum Corporation	Well Name Wardell 20 - 41	Rig Leed 723	Job Date June 17, 2015	Call Sheet 1058477
Client Representative Mr. Nate Windholz	Surface Well Location NE SE Sec 20:T3N:R65W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Laeger, Kacey (25046)

### 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):	--- @ --

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.063	3.250	J-55	7,690.000	21.270	1.751	2.325	0.000	7,140.000
3.500	9.300	J-55	7,400.000	62.090	2.992	4.180	0.000	7,140.000

### Products

#### Plug 1

From Depth (ft): 6521  
To Depth (ft): 7140  
Plug Type : Abandonment  
Acids/Blends/Fluids :  
Plug: 20 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 5.3 (bbl)  
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65  
+ 0.3 % of CFR-2 (Preblend),  
+ 0.3 % of ASM-3 (Preblend)

### Fluid & Cement Data

Expected Cement Top: Depth (ft): 6521

#### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 29, 2014 06:51

### Units & Personnel

#### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200925	PICKUP	1 Ton				06/17/2015 12:30	06/17/2015 16:00
740004	BODY JOB	C & A				06/17/2015 12:30	06/17/2015 16:00
446171	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	06/17/2015 12:30	06/17/2015 16:00

#### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Laeger, Kacey (25046)	06/17/2015 12:30	06/17/2015 14:00		
McMartin, Granite (22138)	06/17/2015 12:30	06/17/2015 14:00		
Vitera, John (29843)	06/17/2015 12:30	06/17/2015 14:00		



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### 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	Jun 17, 2015 12:30	Arrive On Location		--	--	--	--	0.00
2	Jun 17, 2015 12:35	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Held						
3	Jun 17, 2015 12:45	Wait on Client (non Sanjel)		--	--	--	--	0.00
		Remarks: Rig was running tubing						
4	Jun 17, 2015 13:50	Rig in Complete		--	--	--	--	0.00
5	Jun 17, 2015 14:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Held						
6	Jun 17, 2015 14:26	Pressure Test Start	Water	1.00	10.0	--	1.00	1.00
		Remarks: Filled lines						
7	Jun 17, 2015 14:28	Pressure Test Complete	Water	--	2,500.0	--	--	1.00
		Remarks: Lines held good						
8	Jun 17, 2015 14:29	Establish Circulation	Water	2.00	1,300.0	--	5.00	6.00
		Remarks: Good circulation						
9	Jun 17, 2015 14:31	Batch Mix	Thermal 35	--	--	--	--	6.00
		Remarks: Batch 20sks of thermal 35 at 15.8 lb/gal WR 6.23 Y 1.51						
10	Jun 17, 2015 14:53	Pump	Thermal 35	1.80	800.0	--	5.30	11.30
11	Jun 17, 2015 14:58	Displace Fluid	Water	1.80	700.0	--	19.00	30.30
		Remarks: Displace to balance plug						
12	Jun 17, 2015 15:10	Finish Displacement		--	--	--	--	30.30
13	Jun 17, 2015 15:15	Wash		--	--	--	--	30.30
14	Jun 17, 2015 15:30	Rig Out		--	--	--	--	30.30
15	Jun 17, 2015 15:45	Job Complete		--	--	--	--	30.30
16	Jun 17, 2015 15:50	Pre-Departure Meeting		--	--	--	--	30.30
		Remarks: Held						
17	Jun 17, 2015 16:00	Leave Location		--	--	--	--	30.30

Did Float Hold: Not Applicable

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

#### Material Transfer Sheet Number

Material Transfer Sheet Number

57140



## Pumping Service Report

**9206078**

Client Name Anadarko Petroleum Corporation	Well Name Wardell 20 - 41	Rig Leed 723	Job Date June 18,2015	Call Sheet 1058501
Client Representative Mr. Nate Windholz	Surface Well Location NE SE Sec 20:T3N:R65W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hall, Andrew J (25267)



## Pumping Service Report

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### 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)
9.250	20.000	0.000	4,610.000	--	--

### 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)
3.500	9.300		--	--	--	--	--	0.0	4,610.0

### Products

#### Plug 1

From Depth (ft): 4000

To Depth (ft): 4610

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 285 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 58.37 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of ASM-5 (Preblend),

+ 0.5 % of SCA-7 (Preblend)

### Fluid & Cement Data

Expected Cement Top: Depth (ft): 4000

#### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 29, 2014 06:51

### Units & Personnel

#### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201273	PICKUP	3/4 Ton				06/18/2015 09:00	06/18/2015 13:00
740067	BODY JOB	C & A				06/18/2015 09:00	06/18/2015 13:00
446171	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	06/18/2015 09:00	06/18/2015 13:00

#### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hall, Andrew J (25267)	06/18/2015 09:00	06/18/2015 13:00		
Johnson, Jakob (30073)	06/18/2015 09:00	06/18/2015 13:00		
Barden, Sean (27711)	06/18/2015 09:00	06/18/2015 13:00		
Peterson, Ryan (28158)	06/18/2015 09:00	06/18/2015 13:00		



## Pumping Service Report

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### 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	Jun 18,2015 09:00	Arrive On Location		--	--	--	--	0.00
2	Jun 18,2015 09:30	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jun 18,2015 10:00	Rig in Complete		--	--	--	--	0.00
4	Jun 18,2015 10:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jun 18,2015 11:05	Pressure Test Start	Water	1.00	3,000.0	--	5.00	5.00
6	Jun 18,2015 11:08	Pressure Test Complete		--	--	--	--	5.00
7	Jun 18,2015 11:10	Pump Preflush	Water	3.00	300.0	--	20.00	25.00
		Remarks: SMS						
8	Jun 18,2015 11:17	Pump Spacer	Water	3.00	300.0	--	5.00	30.00
9	Jun 18,2015 11:19	Pump	0-1-0 G	3.00	300.0	--	58.37	88.37
10	Jun 18,2015 11:38	Drop Plug		--	--	--	--	88.37
11	Jun 18,2015 11:40	Displace Fluid	Water	3.00	250.0	--	35.00	123.37
12	Jun 18,2015 12:00	Rig Out		--	--	--	--	123.37
13	Jun 18,2015 12:30	Job Complete		--	--	--	--	123.37
		Remarks: AAR						
14	Jun 18,2015 13:00	Leave Location		--	--	--	--	123.37

Did Float Hold: Not Applicable

Fluid Returns : No

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

#### Material Transfer Sheet Number

Material Transfer Sheet Number

57178

57141



## Pumping Service Report

**9205971**

Client Name Anadarko Petroleum Corporation	Well Name Wardell 20 - 41	Rig Leed 723	Job Date June 22,2015	Call Sheet 1058578
Client Representative Mr. Nate Windholz	Surface Well Location NE SE Sec 20:T3N:R65W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Doran, Benjamin (27933)



## Pumping Service Report

9205971

### 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)
9.500	--	621.000	1,335.000	--	--

### 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)
3.500	9.300		--	--	--	--	--	0.0	1,335.0
8.625	24.000		--	--	--	--	--	0.0	621.0

### Products

#### Plug 1

From Depth (ft): 1335

To Depth (ft): 0

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 470 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 111.3 (bbl)

Water Temperature(°F) = 80 , Bulk Temperature(°F) = 75 , Slurry Temperature(°F) = 90

+ 0.25 lb/sack of Polyflake (Preblend),

+ 1 % of CaCl<sub>2</sub> (Preblend),

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of CFL-3 (Preblend),

+ 0.4 % of CDF-4P (Preblend)

### Fluid & Cement Data

Expected Cement Top: Surface

#### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 29, 2014 06:51

### Units & Personnel

#### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201114	PICKUP	3/4 Ton				06/22/2015 10:45	06/22/2015 14:50
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	06/22/2015 10:45	06/22/2015 14:50
446113	TRAILER	Bulker	746113	TRACTOR	Tandem - Tractor	06/22/2015 10:45	06/22/2015 14:50

#### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Doran, Benjamin (27933)	06/22/2015 10:45	06/22/2015 14:50		
Dunsbergen, Scott (29737)	06/22/2015 10:45	06/22/2015 14:50		
Orist, Mark (28876)	06/22/2015 10:45	06/22/2015 14:50		



## Pumping Service Report

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### 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	Jun 22,2015 10:45	Arrive On Location		--	--	--	--	0.00
2	Jun 22,2015 10:50	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jun 22,2015 12:05	Rig in Complete		--	--	--	--	0.00
4	Jun 22,2015 12:15	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jun 22,2015 12:37	Pressure Test Start		3.00	150.0	--	1.50	0.00
		Remarks: Fill Lines						
6	Jun 22,2015 12:39	Pressure Test Complete		--	2,000.0	--	--	0.00
		Remarks: All Lines held pressure						
7	Jun 22,2015 12:41	Pump Spacer	Water	3.00	190.0	--	5.00	5.00
8	Jun 22,2015 12:44	Pump Spacer	Water	3.00	190.0	--	10.00	15.00
		Remarks: Mudflush						
9	Jun 22,2015 12:46	Pump Spacer	Water	3.00	190.0	--	5.00	20.00
10	Jun 22,2015 12:49	Mix Cement	0:1:0 Type III	3.00	270.0	--	111.30	131.30
		Remarks: Mix/Pump 470 Sacks @ 14.8PPG, 1.33 Yield, 6.31 Water Req						
11	Jun 22,2015 13:49	Displace Fluid	Water	2.50	280.0	--	5.00	136.30
12	Jun 22,2015 14:15	Rig Out		--	--	--	--	136.30
13	Jun 22,2015 14:35	Job Complete		--	--	--	--	136.30
14	Jun 22,2015 14:50	Leave Location		--	--	--	--	136.30

Did Float Hold: Not Applicable  
Fluid Returns : Yes  
Type : Cement  
Volume (bbl) : 5  
Temperature (°F) : 90  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design? : Yes