



## Pumping Service Report

9203655

Client Name Anadarko Petroleum Corporation	Well Name Vance 14 - 36	Rig ECWS 7	Job Date February 20,2015	Call Sheet 1055577
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 36:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Contreras, Bennie (23469)

### 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):	--- @ --

### Casing

Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
8.625	24.000	J-55	1,370.0	2,950.0	60.37	8.097	9.625	0.0	948.0
4.500	11.600	J-55	4,960.0	5,350.0	108.64	4.000	5.000	0.0	6,990.0

### Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.375	4.700	J-55	8,100.000	27.010	1.995	2.910	0.000	6,985.000
2.375	4.700	J-55	8,100.000	17.400	1.995	2.910	0.000	4,500.000

### Products

#### Plug 1

From Depth (ft): 6650  
To Depth (ft): 6985  
Plug Type : Abandonment  
Acids/Blends/Fluids :  
Plug: 30 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 8 (bbl)  
Water Temperature(°F) = 45 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 68  
+ 0.3 % of CFR-2 (Preblend),  
+ 0.3 % of ASM-3 (Preblend)

#### Plug 2

From Depth (ft): 4050  
To Depth (ft): 4500  
Plug Type : Abandonment  
Acids/Blends/Fluids :  
Plug: 40 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 8.2 (bbl)  
Water Temperature(°F) = 45 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 68  
+ 0.5 % of CFR-2 (Preblend),  
+ 0.25 % of FMC (Preblend),  
+ 0.5 % of LWA (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	--	--	Feb 12, 2015 17:17



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### Attachment & Tools

#### Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Bridge Plug	6,990.000	Third Party

### 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>
201273	PICKUP	3/4 Ton				02/20/2015 07:30	02/20/2015 11:45
740018-1	BODY JOB	C & A				02/20/2015 07:30	02/20/2015 11:45
446145	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	02/20/2015 07:30	02/20/2015 11:45

#### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Contreras, Bennie (23469)	02/20/2015 07:30	02/20/2015 11:45		
Bailey, Steven (29186)	02/20/2015 07:30	02/20/2015 11:45		
Daylong, Eric (28076)	02/20/2015 07:30	02/20/2015 11:45		
Molina, Alejandro (29922)	02/20/2015 07:30	02/20/2015 11:45		



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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	Feb 20,2015 07:30	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrive.						
2	Feb 20,2015 07:50	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Muster, Nearest med., 911 caller, Amb. and driver, Location safety equipt., Job scope.						
3	Feb 20,2015 08:20	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete.						
4	Feb 20,2015 08:21	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, Nearest med., 911 caller, Amb. and driver, Location safety equipt., Job scope.						
5	Feb 20,2015 08:35	Pressure Test Start	Water	--	3,000.0	--	--	0.00
		Remarks: 3000 psi pressure test.						
6	Feb 20,2015 08:37	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Test complete.						
7	Feb 20,2015 08:41	Batch Mix	Thermal 35	6.00	400.0	--	8.00	8.00
		Remarks: Batch mix 8 BBLs of Thermal 35 @ 15.8 lb/gal..						
8	Feb 20,2015 08:52	Pump	Thermal 35	2.50	1,000.0	--	8.00	16.00
		Remarks: 8 BBLs of Thermal 35 @ 15.8. Scaled						
9	Feb 20,2015 10:56	Displace Fluid	Water	2.50	50.0	--	24.00	40.00
		Remarks: Displace 24 BBLs of water.						
10	Feb 20,2015 10:24	Batch Mix	0-1-0 G	6.00	350.0	--	8.20	48.20
		Remarks: Mix 8.2 BBLs of 0-1-0 G @ 15.8 lb/gal. Scaled						
11	Feb 20,2015 10:34	Pump	0-1-0 G	2.00	1,300.0	--	8.20	56.40
		Remarks: Pumped 8.2 BBLs of cement @ 15.8 lb/gal..						
12	Feb 20,2015 10:38	Displace Fluid	Water	2.00	500.0	--	14.00	70.40
		Remarks: Displaced 14 BBLs of water.						
13	Feb 20,2015 11:15	Rig Out		--	--	--	--	70.40
		Remarks: Rig out.						
14	Feb 20,2015 11:30	Job Complete		--	--	--	--	70.40
		Remarks: Job complete.						
15	Feb 20,2015 11:45	Leave Location		--	--	--	--	70.40
		Remarks: Leave.						

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

55772

55773



## Pumping Service Report

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Client Name Anadarko Petroleum Corporation	Well Name Vance 14 - 36	Rig ECWS 7	Job Date February 24,2015	Call Sheet 1055805
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 36:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Schneider, Patrick (24093)

### 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)
9.000	--	948.000	1,170.000	--	--

### Casing

Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
8.625	24.000	J-55	1,370.0	2,950.0	60.37	8.097	9.625	0.0	948.0
4.500	11.600	J-55	4,960.0	5,350.0	1.55	4.000	5.000	1,170.0	1,270.0

### Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.375	4.700	J-55	8,100.000	4.910	1.995	2.910	0.000	1,270.000

### Products

#### Plug 1

From Depth (ft): 540

To Depth (ft): 1270

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 190 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 45 (bbl)

Water Temperature(°F) = 43 , Bulk Temperature(°F) = 25 , Slurry Temperature(°F) = 53

+ 0.5 % of CaCl<sub>2</sub> (Preblend),

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of CFL-3 (Preblend),

+ 0.4 % of CDF-4P (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

### Fluid & Cement Data

Expected Cement Top: Depth (ft): 540

#### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Feb 12, 2015 17:17



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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>
449086	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	02/24/2015 10:45	02/24/2015 13:15
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	02/24/2015 10:45	02/24/2015 13:15
446075	TRAILER	Bulker	746075	TRACTOR	Tandem - Tractor	02/24/2015 10:45	02/24/2015 13:15
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>		<u>Second End Shift</u>		
Schneider, Patrick (24093)	02/24/2015 10:45	02/24/2015 13:15					
Teegerstrom, Ty (27623)	02/24/2015 10:45	02/24/2015 13:15					
Barden, Sean (27711)	02/24/2015 10:45	02/24/2015 13:15					
Bark, Eric (28944)	02/24/2015 10:45	02/24/2015 13:15					



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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	Feb 24,2015 10:45	Arrive On Location		--	--	--	--	0.00
2	Feb 24,2015 10:50	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedures						
3	Feb 24,2015 11:05	Rig In		--	--	--	--	0.00
4	Feb 24,2015 11:20	Rig in Complete		--	--	--	--	0.00
5	Feb 24,2015 11:25	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
6	Feb 24,2015 11:53	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
7	Feb 24,2015 11:54	Pressure Test Start	Water	--	1,500.0	--	--	1.00
8	Feb 24,2015 11:56	Pressure Test Complete	Water	--	0.0	--	--	1.00
		Remarks: good pressure test						
9	Feb 24,2015 11:56	Pump Preflush		2.00	125.0	--	10.00	11.00
		Remarks: mud flush						
10	Feb 24,2015 12:02	Pump Spacer	Water	2.00	150.0	--	10.00	21.00
		Remarks: fresh water preflush						
11	Feb 24,2015 12:06	Mix Cement	0:1:0 Type III	3.00	300.0	--	45.00	66.00
		Remarks: 190 sks plug cement @ 14.8 ppg yield = 1.33 h2o req = 6.31						
12	Feb 24,2015 12:25	Displace Fluid	Water	2.00	100.0	--	2.00	68.00
		Remarks: displaced to balance						
13	Feb 24,2015 12:26	Balance Plug	Water	--	0.0	--	--	68.00
14	Feb 24,2015 12:30	Tailgate Meeting		--	--	--	--	68.00
		Remarks: revisited JSA						
15	Feb 24,2015 12:35	Rig Out		--	--	--	--	68.00
16	Feb 24,2015 12:45	Wash	Water	--	--	--	--	68.00
		Remarks: washed pumps and lines						
17	Feb 24,2015 13:00	Job Complete		--	--	--	--	68.00
18	Feb 24,2015 13:10	Pre-Departure Meeting		--	--	--	--	68.00
19	Feb 24,2015 13:15	Leave Location		--	--	--	--	68.00

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

55808

55809