



Pumping Service Report

9204335

Client Name Anadarko Petroleum Corporation	Well Name Vawter Estate #1	Rig ECWS 7	Job Date June 01,2015	Call Sheet 1058114
Client Representative Mr. Dave Donoho	Surface Well Location SW SW Sec 2:T1N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Hansen, Kevin (27592)

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	--	241.000	4,900.000	--	--

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	15.35	8.097	9.625	0.0	241.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	0.000		--	--	--	--	0.000	4,900.000

Products

Plug 1

From Depth (ft): 4510

To Depth (ft): 4900

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 150 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 30.7 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 4510

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 27, 2015 07:11



Pumping Service Report

9204335

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>
201114	PICKUP	3/4 Ton				06/01/2015 19:00	06/01/2015 22:00
740004	BODY JOB	C & A				06/01/2015 19:00	06/01/2015 22:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	06/01/2015 19:00	06/01/2015 22:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>		<u>Second Start Shift</u>		<u>Second End Shift</u>
Hansen, Kevin (27592)	06/01/2015 19:00		06/01/2015 21:00				
Cheal, Samuel (28315)	06/01/2015 19:00		06/01/2015 21:00				
Hall, Austin (28887)	06/01/2015 19:00		06/01/2015 21:00				
Phillips, James (23627)	06/01/2015 19:00		06/01/2015 21:00				



Pumping Service Report

9204335

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 01,2015 19:00	Arrive On Location		--	--	--	--	0.00
2	Jun 01,2015 19:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting of trucks and filled out JSA						
3	Jun 01,2015 19:30	Rig in Complete		--	--	--	--	0.00
4	Jun 01,2015 19:45	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Discussed job and safety concerns with rig crew and signed JSA						
5	Jun 01,2015 20:00	Pressure Test Start		2.00	400.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
6	Jun 01,2015 20:04	Pressure Test Complete		--	2,500.0	--	--	2.00
		Remarks: Pressure test good						
7	Jun 01,2015 20:05	Establish Circulation	Water	25.00	600.0	--	4.00	6.00
8	Jun 01,2015 20:07	Pump	Water	25.00	650.0	--	20.00	26.00
		Remarks: Pumped SMS						
9	Jun 01,2015 20:15	Pump Spacer	Water	2.50	650.0	--	5.00	31.00
		Remarks: Pumped fresh water spacer						
10	Jun 01,2015 20:20	Wait On Instructions		--	--	--	--	31.00
		Remarks: Wait on 3rd party truck to pump down tanks						
11	Jun 01,2015 20:35	Mix Cement	0-1-0 G	2.50	550.0	--	30.70	61.70
		Remarks: Mixed @ D-15.8, Y-1.15, WR-4.98						
12	Jun 01,2015 21:03	Displace Fluid	Water	2.50	500.0	--	20.00	81.70
		Remarks: Pumped to balance plug						
13	Jun 01,2015 21:10	Job Complete		--	--	--	--	81.70
14	Jun 01,2015 21:12	Wash		--	--	--	--	81.70
15	Jun 01,2015 21:37	Rig Out		--	--	--	--	81.70
16	Jun 01,2015 21:55	Pre-Departure Meeting		--	--	--	--	81.70
		Remarks: Discussed journey management						
17	Jun 01,2015 22:00	Leave Location		--	--	--	--	81.70

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

57993



Pumping Service Report

9204336

Client Name Anadarko Petroleum Corporation	Well Name Vawter Estate #1	Rig ECWS 7	Job Date June 02,2015	Call Sheet 1058136
Client Representative Mr. Dave Donoho	Surface Well Location SW SW Sec 2:T1N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Hansen, Kevin (27592)

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	40.000	241.000	1,245.000	--	--

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	15.35	8.097	9.625	0.0	241.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	0.000		--	--	--	--	0.000	1,240.000

Products

Plug 1

From Depth (ft): 150

To Depth (ft): 1240

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 500 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 118 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75

+ 0.25 lb/sack of Polyflake (Preblend),

+ 0.5 % of CaCl₂ (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: Depth (ft): 150

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 27, 2015 07:11



Pumping Service Report

9204336

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>
201114	PICKUP	3/4 Ton				06/02/2015 12:00	06/02/2015 17:00
740004	BODY JOB	C & A				06/02/2015 12:00	06/02/2015 17:00
446113	TRAILER	Bulker	746113	TRACTOR	Tandem - Tractor	06/02/2015 12:00	06/02/2015 17:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>		<u>Second Start Shift</u>		<u>Second End Shift</u>
Hansen, Kevin (27592)	06/02/2015 12:00		06/02/2015 17:00				
Cheal, Samuel (28315)	06/02/2015 12:00		06/02/2015 17:00				
Hall, Austin (28887)	06/02/2015 12:00		06/02/2015 17:00				
Phillips, James (23627)	06/02/2015 12:00		06/02/2015 17:00				



Pumping Service Report

9204336

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 02,2015 12:00	Arrive On Location		--	--	--	--	0.00
2	Jun 02,2015 12:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jun 02,2015 14:30	Rig in Complete		--	--	--	--	0.00
4	Jun 02,2015 14:50	Crew Briefing (Pre Job)		--	--	--	--	0.00
Remarks: Discussed job and safety concerns with rig crew and signed JSA								
5	Jun 02,2015 15:00	Pressure Test Start	Water	2.00	100.0	--	2.00	2.00
Remarks: Filled lines for pressure test								
6	Jun 02,2015 15:04	Pressure Test Complete		--	2,000.0	--	--	2.00
Remarks: Pressure test good								
7	Jun 02,2015 15:05	Establish Circulation	Water	2.50	150.0	--	4.00	6.00
8	Jun 02,2015 15:07	Pump	Water	2.50	150.0	--	10.00	16.00
Remarks: Pumped SAPP								
9	Jun 02,2015 15:04	Pump Spacer	Water	2.50	160.0	--	5.00	21.00
Remarks: Pumped fresh water spacer								
10	Jun 02,2015 15:10	Mix Cement	0:1:0 Type III	3.50	400.0	--	118.00	139.00
Remarks: Mixed @ D-14.8, Y-1.33, WR-6.31								
11	Jun 02,2015 15:50	Displace Fluid	Water	2.00	100.0	--	1.00	140.00
12	Jun 02,2015 15:59	Job Complete		--	--	--	--	140.00
13	Jun 02,2015 16:17	Wash		--	--	--	--	140.00
14	Jun 02,2015 16:30	Rig Out		--	--	--	--	140.00
15	Jun 02,2015 16:55	Pre-Departure Meeting		--	--	--	--	140.00
Remarks: Discussed journey management								
16	Jun 02,2015 17:00	Leave Location		--	--	--	--	140.00

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

57055

57056



Pumping Service Report

9204337

Client Name Anadarko Petroleum Corporation	Well Name Vawter Estate #1	Rig ECWS 7	Job Date June 04,2015	Call Sheet 1058189
Client Representative Mr. Dave Donoho	Surface Well Location SW SW Sec 2:T1N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Hansen, Kevin (27592)



Pumping Service Report

9206039

Client Name Anadarko Petroleum Corporation	Well Name Vawter Estate #1	Rig ECWS 7	Job Date June 03,2015	Call Sheet 1058166
Client Representative Mr. Dave Donoho	Surface Well Location SW SW Sec 2:T1N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Contreras, Bennie (23469)



Pumping Service Report

9206039

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	13.63	8.097	9.625	0.0	214.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	6.500	J-55	7,680.000	4.860	2.441	3.668	0.000	840.000

Products

Plug 1

From Depth (ft): 30

To Depth (ft): 840

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 200 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 47.4 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 72

+ 0.25 lb/sack of Polyflake (Preblend),

+ 0.5 % of CaCl₂ (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: Depth (ft): 30

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 27, 2015 07:11

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201191	PICKUP	1 Ton				06/03/2015 10:00	06/03/2015 12:30
740018-1	BODY JOB	C & A				06/03/2015 10:00	06/03/2015 12:30
746502	BODY JOB	Baby Bulker				06/03/2015 10:00	06/03/2015 12:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Contreras, Bennie (23469)	06/03/2015 10:00	06/03/2015 12:30		
Davila, Israel (28152)	06/03/2015 10:00	06/03/2015 12:30		
Leon, Justin (30152)	06/03/2015 10:00	06/03/2015 12:30		
Peterson, Ryan (28158)	06/03/2015 10:00	06/03/2015 12:30		



Pumping Service Report

9206039

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 03,2015 10:00	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived.						
2	Jun 03,2015 10:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: STEACS						
3	Jun 03,2015 10:30	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete.						
4	Jun 03,2015 10:31	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, 911 caller, Nearest med., Amb. and driver, Location safety equipt., Job scope.						
5	Jun 03,2015 10:52	Pressure Test Start	Water	--	1,500.0	--	--	0.00
		Remarks: 1500 psi pressure test.						
6	Jun 03,2015 10:55	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Test complete.						
7	Jun 03,2015 10:56	Mix Cement	0:1:0 Type III	2.90	75.0	--	47.40	47.40
		Remarks: Mix and pump 47.4 BBLs of cement @ 14.8 lb/gal. Scaled for accuracy.						
8	Jun 03,2015 11:30	Rig Out		--	--	--	--	47.40
		Remarks: Rig down.						
9	Jun 03,2015 12:00	Job Complete		--	--	--	--	47.40
		Remarks: Job complete.						
10	Jun 03,2015 12:30	Leave Location		--	--	--	--	47.40
		Remarks: Leave.						

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 0.3

Temperature (°F) : 80

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

57062



Pumping Service Report

9204337

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	--	241.000	290.000	--	--

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)
8.625	24.000	J-55	1,370.0	2,950.0	15.35	8.097	9.625	0.0	241.0

Products

Plug 1

From Depth (ft): 0
To Depth (ft): 286
Plug Type : Abandonment
Acids/Blends/Fluids :

Tail: 155 Sacks of Control Set C, Density = 13.5 lb/gal, Volume Pumped = 48 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75
+ 2 % of Gypsum (Preblend),
+ 2 % of CaCl₂ (Preblend),
+ 2 % of SMS (Preblend)

Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 27, 2015 07:11

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201025	PICKUP	1 Ton	449087	TRAILER	Utility Trailer	06/04/2015 11:00	06/04/2015 14:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	06/04/2015 11:00	06/04/2015 14:00
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	06/04/2015 11:00	06/04/2015 14:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hansen, Kevin (27592)	06/04/2015 11:00	06/04/2015 14:00		
Teegerstrom, Ty (27623)	06/04/2015 11:00	06/04/2015 14:00		
Vitera, John (29843)	06/04/2015 11:00	06/04/2015 14:00		



Pumping Service Report

9204337

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 04,2015 11:00	Arrive On Location		--	--	--	--	0.00
2	Jun 04,2015 11:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting of trucks and filled out JSA						
3	Jun 04,2015 11:30	Rig in Complete		--	--	--	--	0.00
4	Jun 04,2015 11:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Discussed job and safety concerns with rig crew and signed JSA						
5	Jun 04,2015 11:58	Pressure Test Start		1.50	100.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
6	Jun 04,2015 12:01	Pressure Test Complete		--	2,000.0	--	--	2.00
		Remarks: Pressure test good						
7	Jun 04,2015 12:02	Pump Preflush	Water	2.00	100.0	--	10.00	12.00
		Remarks: Pumped WG-1L (Gel), CaC12(calcium), Fiberblock						
8	Jun 04,2015 12:08	Pump Spacer	Water	2.00	100.0	--	4.00	16.00
		Remarks: Fresh water spacer						
9	Jun 04,2015 12:10	Pump	Water	2.00	100.0	--	20.00	36.00
		Remarks: Pumped Wellseal SMS						
10	Jun 04,2015 12:20	Pump Spacer	Water	2.00	100.0	--	5.00	41.00
		Remarks: Fresh water spacer						
11	Jun 04,2015 12:27	Mix Cement	Control Set C	1.75	150.0	--	48.00	89.00
		Remarks: Pumped @ D-13.5, Added Fiberblock on the fly (3 Boxes)						
12	Jun 04,2015 12:55	Stop		--	--	--	--	89.00
13	Jun 04,2015 13:00	Job Complete		--	--	--	--	89.00
14	Jun 04,2015 13:05	Wash		--	--	--	--	89.00
15	Jun 04,2015 13:35	Rig Out		--	--	--	--	89.00
16	Jun 04,2015 13:55	Pre-Departure Meeting		--	--	--	--	89.00
		Remarks: Discussed journey management						
17	Jun 04,2015 14:00	Leave Location		--	--	--	--	89.00

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

57076