



Pumping Service Report

9203860

Client Name Anadarko Petroleum Corporation	Well Name Dutcher Roy Unit #1	Rig Leed 723	Job Date March 30,2015	Call Sheet 1056974
Client Representative Mr. Nate Windholz	Surface Well Location SW SW Sec 24:T2N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hall, Andrew J (25267)

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)
4.500	10.500	J-55	4,010.0	4,790.0	115.79	4.052	5.000	0.0	7,260.0

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	26.500	1.995	2.910	0.000	6,855.000
2.375	4.700	J-55	8,100.000	18.240	1.995	2.910	0.000	4,718.000

Products

Plug 1

From Depth (ft): 6815

To Depth (ft): 7260

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 140 Sacks of 50% Class G / 50% Poz (1-1-0 G), Density = 13.5 lb/gal, Volume Pumped = 41.39 (bbl)

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

+ 20 % of Silica Flour (Preblend),

+ 3 % of Gel (Preblend),

+ 0.1 % of SMS (Preblend),

+ 0.4 % of CFR-2 (Preblend),

+ 0.4 % of CFL-3 (Preblend)

Plug 2

From Depth (ft): 3353.23

To Depth (ft): 4718

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 70 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 14.33 (bbl)

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

+ 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: --

Wellbore Fluid

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

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: March 31, 2015

Service Report: 9203860

Page 1 of 3

V4.0.3.0



Pumping Service Report

9203860

Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Cement Retainer	6,855.000	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				03/30/2015 08:30	03/30/2015 17:30
740082	BODY JOB	C & A				03/30/2015 08:30	03/30/2015 17:30
446092	TRAILER	Bulker	746092	TRACTOR	Tandem - Tractor	03/30/2015 08:30	03/30/2015 17:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J (25267)	03/30/2015 08:30	03/30/2015 17:30		
Cheal, Samuel (28315)	03/30/2015 08:30	03/30/2015 17:30		
Hall, Austin (28887)	03/30/2015 08:30	03/30/2015 17:30		
Leon, Justin (30152)	03/30/2015 08:30	03/30/2015 17:30		



Pumping Service Report

9203860

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	Mar 30,2015 08:30	Arrive On Location		--	--	--	--	0.00
2	Mar 30,2015 09:00	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Mar 30,2015 09:30	Rig in Complete		--	--	--	--	0.00
4	Mar 30,2015 10:00	Stop		--	--	--	--	0.00
		Remarks: Wait on rig						
5	Mar 30,2015 11:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
6	Mar 30,2015 12:18	Pressure Test Start	Water	1.00	3,000.0	--	3.00	3.00
7	Mar 30,2015 12:22	Pressure Test Complete		--	--	--	--	3.00
8	Mar 30,2015 12:54	Injection Test	0-1-0 G	2.50	800.0	--	10.00	13.00
9	Mar 30,2015 12:26	Pump	50% Class G / 50% Poz (1-1-0 G)	2.50	1,000.0	--	41.39	54.39
10	Mar 30,2015 12:45	Displace Fluid	Water	2.50	600.0	--	23.52	77.91
11	Mar 30,2015 13:00	Stop		--	--	--	--	77.91
		Remarks: Wait on rig						
12	Mar 30,2015 15:00	Injection Test	Water	2.50	600.0	--	10.00	87.91
13	Mar 30,2015 15:08	Pump	0-1-0 G	2.50	800.0	--	14.30	102.21
14	Mar 30,2015 15:20	Displace Fluid	Water	2.50	800.0	--	10.00	112.21
15	Mar 30,2015 15:35	Rig Out		--	--	--	--	112.21
16	Mar 30,2015 16:30	Job Complete		--	--	--	--	112.21
17	Mar 30,2015 17:00	Leave Location		--	--	--	--	112.21

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

57858

57842



Pumping Service Report

9203642

Client Name Anadarko Petroleum Corporation	Well Name Dutcher Roy Unit #1	Rig Leed 723	Job Date March 31,2015	Call Sheet 1056994
Client Representative Mr. Nate Windholz	Surface Well Location SW SW Sec 24:T2N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	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)
12.000	--	646.000	1,270.000	--	--

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	41.14	8.097	9.625	0.0	646.0
4.500	10.500		--	--	--	--	--	1,270.0	3,820.0

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		--	--	--	--	0.000	1,387.000

Products

Plug 1

From Depth (ft): 187

To Depth (ft): 1387

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 500 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 118.4 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65

+ 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): 187

Wellbore Fluid

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



Pumping Service Report

9203642

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				03/31/2015 11:00	03/31/2015 16:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	03/31/2015 11:00	03/31/2015 16:00
446171	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	03/31/2015 11:00	03/31/2015 16:00
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)	03/31/2015 11:00		03/31/2015 16:00				
Hansen, Ted (29055)	03/31/2015 11:00		03/31/2015 16:00				
Dunsbergen, Scott (29737)	03/31/2015 11:00		03/31/2015 16:00				
Betts, Dallas (30257)	03/31/2015 11:00		03/31/2015 16:00				



Pumping Service Report

9203642

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	Mar 31,2015 11:00	Arrive On Location		--	--	--	--	0.00
2	Mar 31,2015 11:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting of trucks and filled out JSA						
3	Mar 31,2015 13:45	Rig in Complete		--	--	--	--	0.00
4	Mar 31,2015 14:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Discussed job and safety concerns with rig crew and signed JSA						
5	Mar 31,2015 14:08	Pressure Test Start		2.00	350.0	--	2.00	2.00
		Remarks: Filled lines to pressure test						
6	Mar 31,2015 14:10	Pressure Test Complete		--	2,500.0	--	--	2.00
		Remarks: Pressure test good						
7	Mar 31,2015 14:01	Establish Circulation	Water	3.00	500.0	--	5.00	2.00
8	Mar 31,2015 14:03	Pump	Water	3.00	500.0	--	10.00	12.00
		Remarks: Pumped SAPP						
9	Mar 31,2015 14:07	Pump Spacer	Water	3.00	600.0	--	10.00	22.00
		Remarks: Fresh water spacer						
10	Mar 31,2015 14:20	Mix Cement	0:1:0 Type III	4.00	800.0	--	118.00	140.00
		Remarks: Pumped @ D-14.8						
11	Mar 31,2015 15:05	Job Complete		--	--	--	--	140.00
12	Mar 31,2015 15:10	Wash		--	--	--	--	140.00
13	Mar 31,2015 15:35	Rig Out		--	--	--	--	140.00
14	Mar 31,2015 15:55	Pre-Departure Meeting		--	--	--	--	140.00
		Remarks: Discussed journey management						
15	Mar 31,2015 16:00	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

57868

57869



Pumping Service Report

9203643

Client Name Anadarko Petroleum Corporation	Well Name Dutcher Roy Unit #1	Rig Leed 723	Job Date April 01,2015	Call Sheet 1057023
Client Representative Mr. Nate Windholz	Surface Well Location SW SW Sec 24:T2N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hansen, Kevin (27592)



Pumping Service Report

9203643

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		--	--	--	--	--	0.0	80.0

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		--	--	--	--	0.000	80.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 80

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 30 Sacks of Control Set C, Density = 13.5 lb/gal, Volume Pumped = 9 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 0.25 lb/sack of Polyflake (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
449093	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	04/01/2015 14:00	04/01/2015 16:00
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	04/01/2015 14:00	04/01/2015 16:00
746506	BODY JOB	Baby Bulker				04/01/2015 14:00	04/01/2015 16:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hansen, Kevin (27592)	04/01/2015 14:00	04/01/2015 16:00		
Joyner, Barlen (28603)	04/01/2015 14:00	04/01/2015 16:00		
Prigmore, Dominic (27161)	04/01/2015 14:00	04/01/2015 16:00		
Davila, Israel (28152)	04/01/2015 14:00	04/01/2015 16:00		



Pumping Service Report

9203643

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	Apr 01,2015 14:00	Arrive On Location		--	--	--	--	0.00
2	Apr 01,2015 14:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting of trucks and filled out JSA						
3	Apr 01,2015 14:20	Rig in Complete		--	--	--	--	0.00
4	Apr 01,2015 14:23	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Discussed job and safety concerns with rig crew and signed JSA						
5	Apr 01,2015 14:28	Pressure Test Start		1.50	40.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
6	Apr 01,2015 14:30	Pressure Test Complete		--	1,500.0	--	--	2.00
		Remarks: Pressure test good						
7	Apr 01,2015 14:32	Establish Circulation	Water	1.00	40.0	--	2.00	4.00
8	Apr 01,2015 14:33	Mix Cement	Control Set C	1.50	50.0	--	9.00	13.00
		Remarks: Pumped @ D-13.5						
9	Apr 01,2015 14:45	Job Complete		--	--	--	--	13.00
10	Apr 01,2015 15:00	Wash		--	--	--	--	13.00
11	Apr 01,2015 15:30	Rig Out		--	--	--	--	13.00
12	Apr 01,2015 15:50	Pre-Departure Meeting		--	--	--	--	13.00
		Remarks: Discussed journey management						
13	Apr 01,2015 16:00	Leave Location		--	--	--	--	13.00

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

57006