



Pumping Service Report

9206138

Client Name Anadarko Petroleum Corporation	Well Name Clark Francis Unit B #1	Rig Basic 1549	Job Date July 30, 2015	Call Sheet 1059582
Client Representative Mr. Bill Smith	Surface Well Location SW SW Sec 14:T1N:R67W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Douglass, Brian (23898)

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)
10.000	--	--	--	--	--

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)
4.500	11.600		--	--	--	--	--	0.0	1,541.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.375	4.700		--	--	--	--	0.000	890.000

Products

Plug 1

From Depth (ft): 690

To Depth (ft): 890

Plug Type : Well Stability

Acids/Blends/Fluids :

Tail: 470 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 111 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 85 , Slurry Temperature(°F) = 76

+ 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 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 690

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jan 15, 2015 18:10



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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>
201009	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	07/30/2015 11:00	07/30/2015 15:10
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	07/30/2015 11:00	07/30/2015 15:10
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	07/30/2015 11:00	07/30/2015 15:10
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Douglass, Brian (23898)							
Ripka, Robert (23825)							
Hansen, Ted (29055)							



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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	Jul 30,2015 11:00	Arrive On Location		--	--	--	--	0.00
2	Jul 30,2015 11:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jul 30,2015 11:40	Rig in Complete		--	--	--	--	0.00
4	Jul 30,2015 12:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jul 30,2015 13:08	Pressure Test Start		--	3,500.0	--	--	0.00
6	Jul 30,2015 13:09	Pressure Test Complete		--	--	--	--	0.00
7	Jul 30,2015 13:10	Pump	Water	2.50	400.0	--	5.00	0.00
8	Jul 30,2015 13:15	Pump	0:1:0 Type III	3.00	1,000.0	--	111.00	0.00
9	Jul 30,2015 13:54	Stop		--	--	--	--	0.00
		Remarks: rig is stinging out						
10	Jul 30,2015 13:56	Displace Fluid	Water	2.00	25.0	--	2.00	0.00
11	Jul 30,2015 14:00	Stop		--	--	--	--	0.00
		Remarks: rig pulling up to 500'						
12	Jul 30,2015 14:10	Pump	Water	1.50	500.0	--	1.00	0.00
		Remarks: squeeze cement						
13	Jul 30,2015 14:40	Pump	Water	1.00	900.0	--	0.10	0.00
14	Jul 30,2015 14:42	Stop		--	--	--	--	0.00
15	Jul 30,2015 14:44	Rig In		--	--	--	--	0.00
16	Jul 30,2015 14:55	Job Complete		--	--	--	--	0.00
17	Jul 30,2015 15:00	Pre-Departure Meeting		--	--	--	--	0.00
18	Jul 30,2015 15:10	Leave Location		--	--	--	--	0.00

Did Float Hold: Yes

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

65299



Pumping Service Report

9206242

Client Name Anadarko Petroleum Corporation	Well Name Clark Francis Unit B #1	Rig Basic 1549	Job Date August 11, 2015	Call Sheet 1059890
Client Representative Mr. Bill Smith	Surface Well Location SW SW Sec 14:T1N:R67W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Johnson, Quintin (23945)

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	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
4.500	11.600	J-55	4,960.0	5,350.0	13.79	4.000	5.000	0.0	887.0

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	3.430	1.995	2.910	0.000	887.000

Products

Plug 1

From Depth (ft): 556.7

To Depth (ft): 887

Plug Type : Well Stability

Acids/Blends/Fluids :

Plug: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 5.1 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 50 lb/gal of CaCl₂ (Prehydrate)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jan 15, 2015 18:10

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201009	PICKUP	1 Ton				08/11/2015 09:30	08/11/2015 13:45
740004	BODY JOB	C & A				08/11/2015 09:30	08/11/2015 13:45
746506	BODY JOB	Baby Bulker				08/11/2015 09:30	08/11/2015 13:45

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Johnson, Quintin (23945)	08/11/2015 09:30	08/11/2015 13:45		
Johnson, Jakob (30073)	08/11/2015 09:30	08/11/2015 13:45		
Daylong, Eric (28076)	08/11/2015 09:30	08/11/2015 13:45		

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: August 11, 2015

Service Report: 9206242

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V4.1.0.0

**Treatment Reports & Remarks****Treatment Report**

<u>Event #</u>	<u>Event Time</u>	<u>Event Description</u>	<u>Fluid Type</u>	<u>Rate</u> (bbl/min)	<u>Tubular Pressure</u> (psi)	<u>Annular Pressure</u> (psi)	<u>Stage Volume</u> (bbl)	<u>Total Volume</u> (bbl)
1	Aug 11, 2015 09:30	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived on time						
2	Aug 11, 2015 09:35	Tailgate Meeting		--	--	--	--	0.00
		Remarks: talked about spotting trucks						
3	Aug 11, 2015 09:45	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: talked about site hazards and how to mitigate them						
4	Aug 11, 2015 10:15	Rig In		--	--	--	--	0.00
		Remarks: rigged into the well and 3rd party water						
5	Aug 11, 2015 10:30	Rig in Complete		--	--	--	--	0.00
		Remarks: Gather for safety meeting						
6	Aug 11, 2015 10:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: talked about the job scope and safety concerns						
7	Aug 11, 2015 10:36	Sign-off on Safety		--	--	--	--	0.00
		Remarks: signed their and our jsa						
8	Aug 11, 2015 10:55	Pressure Test Start	Water	1.00	0.0	--	1.00	1.00
		Remarks: filled lines for pressure testing						
9	Aug 11, 2015 10:56	Pressure Test	Water	0.00	1,800.0	--	0.00	1.00
		Remarks: pressured lines and they held good						
10	Aug 11, 2015 10:58	Pressure Test Complete		0.00	0.0	--	0.00	1.00
		Remarks: opened up to pump job						
11	Aug 11, 2015 11:02	Establish Circulation	Water	2.00	20.0	--	1.00	2.00
		Remarks: got good circulation						
12	Aug 11, 2015 11:06	Mix Cement	0-1-0 G	2.00	20.0	--	5.10	7.10
		Remarks: mixed slurry at 15.8 density off the mud scale						
13	Aug 11, 2015 11:14	Pump Displacement	Water	2.00	20.0	--	2.00	9.10
		Remarks: and balanced plug						
14	Aug 11, 2015 11:16	Stop		--	--	--	--	9.10
		Remarks: stop to reverse out tubing clean						
15	Aug 11, 2015 11:20	Reverse Circulate	Water	2.00	20.0	--	15.00	24.10
		Remarks: reversed through backside on the 4.5 through 2.35 tubing till tubing was clean						
16	Aug 11, 2015 11:30	Wash	Water	2.00	100.0	--	11.00	35.10
		Remarks: washed mix side and did run backs						
17	Aug 11, 2015 12:30	Squeeze	Water	0.50	400.0	--	1.00	36.10
		Remarks: squeezed on plug to pack off holes						
18	Aug 11, 2015 13:30	Squeeze	Water	0.50	--	--	1.00	37.10
		Remarks: Squeeze on holes at 835						
19	Aug 11, 2015 13:35	Rig Out		--	--	--	--	37.10
		Remarks: rigged out of well and 3rd party water						
20	Aug 11, 2015 13:40	Job Complete		--	--	--	--	37.10
		Remarks: do complete walk around and check pins						
21	Aug 11, 2015 13:45	Leave Location		--	--	--	--	37.10
		Remarks: Go back to Sanjel Yard						



Pumping Service Report

9207903

Client Name Anadarko Petroleum Corporation	Well Name Clark Francis Unit B #1	Rig Basic 1549	Job Date August 14, 2015	Call Sheet 1059968
Client Representative Mr. Bill Smith	Surface Well Location SW SW Sec 14:T1N:R67W	Down Hole Well Location	Job Type Cement Misc.	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): --- @ --

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	11.600	J-55	4,960.0	5,350.0	13.83	4.000	5.000	0.0	890.0

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	3.440	1.995	2.910	0.000	890.000

Products

Plug 1

From Depth (ft): 735

To Depth (ft): 890

Plug Type : Well Stability

Acids/Blends/Fluids :

Plug: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 5.1 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75
+ 1 % of CaCl₂ (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 735

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jan 15, 2015 18:10

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				08/14/2015 06:30	08/14/2015 12:00
740004	BODY JOB	C & A				08/14/2015 06:30	08/14/2015 12:00
746506	BODY JOB	Baby Bulker				08/14/2015 06:30	08/14/2015 12:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Schneider, Patrick (24093)	08/14/2015 06:30	08/14/2015 12:00		
Cheal, Samuel (28315)	08/14/2015 06:30	08/14/2015 12:00		
Decenick, Scott (30083)	08/14/2015 06:30	08/14/2015 12:00		



Pumping Service Report

9207903

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	Aug 14, 2015 06:30	Arrive On Location		--	--	--	--	0.00
2	Aug 14, 2015 06:35	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedure						
3	Aug 14, 2015 07:00	Rig In		--	--	--	--	0.00
4	Aug 14, 2015 07:15	Rig in Complete		--	--	--	--	0.00
5	Aug 14, 2015 08:15	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones duties						
6	Aug 14, 2015 08:45	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: Filled lines						
7	Aug 14, 2015 08:46	Pressure Test Start	Water	--	2,500.0	--	--	1.00
8	Aug 14, 2015 08:48	Pressure Test Complete	Water	--	0.0	--	--	1.00
		Remarks: good pressure test						
9	Aug 14, 2015 08:48	Establish Circulation	Water	2.50	150.0	--	5.00	6.00
		Remarks: fresh water preflush						
10	Aug 14, 2015 08:51	Batch Mix	0-1-0 G	--	0.0	--	--	6.00
		Remarks: 25 sx of cement to 15.8ppg						
11	Aug 14, 2015 09:02	Pump	0-1-0 G	2.50	150.0	--	5.10	11.10
		Remarks: 25 sx plug cement @ 15.8ppg yield = 1.15 H2O Req = 4.98 total H2O = 3bbl						
12	Aug 14, 2015 09:04	Displace Fluid	Water	2.50	30.0	--	2.00	13.10
		Remarks: displaced to balance						
13	Aug 14, 2015 09:10	Wash	Water	--	--	--	--	13.10
		Remarks: washed pump and lines						
14	Aug 14, 2015 09:30	Wait on Cement		--	--	--	--	13.10
15	Aug 14, 2015 10:25	Squeeze	Water	0.30	500.0	--	0.80	13.90
16	Aug 14, 2015 10:30	Hold Pressure	Water	--	300.0	--	--	13.90
		Remarks: pressure bled off to 300psi						
17	Aug 14, 2015 11:35	Squeeze	Water	0.30	500.0	--	0.25	14.15
		Remarks: achieved squeeze pressure						
18	Aug 14, 2015 11:40	Tailgate Meeting		--	--	--	--	14.15
		Remarks: revisited JSA						
19	Aug 14, 2015 11:45	Rig Out		--	--	--	--	14.15
20	Aug 14, 2015 11:50	Job Complete		--	--	--	--	14.15
21	Aug 14, 2015 11:55	Pre-Departure Meeting		--	--	--	--	14.15
22	Aug 14, 2015 12:00	Leave Location		--	--	--	--	14.15

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