



Pumping Service Report

9201221

Client Name Anadarko Petroleum Corporation	Well Name State L 16 - 16	Rig Leed 724	Job Date December 15, 2014	Call Sheet 1052130
Client Representative Mr. Luis Morales	Surface Well Location SE SE Sec 16:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Prigmore, Dominic (27161)

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)
11.000	--	539.000	4,774.000	539.000	4,774.000

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	34.33	8.097	9.625	0.0	539.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	J-55	7,680.000	32.410	2.441	3.668	0.000	5,600.000
1.660	2.330	J-55	8,490.000	10.360	1.380	1.880	0.000	5,600.000

Products

Plug 1

From Depth (ft): 4774

To Depth (ft): 3946

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 20 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 4 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 0.5 % of CFR-2 (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend),
+ 0.25 % of FMC (Preblend),
+ 0.5 % of LWA (Preblend)

Plug: 320 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 66 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 0.5 % of CFR2 (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): 3946

Wellbore Fluid

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

Attachment & Tools

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	2.875	Sanjel

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>
449087	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	12/15/2014 12:30	12/15/2014 20:20
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	12/15/2014 12:30	12/15/2014 20:20
746145	TRACTOR	Tandem - Tractor	446145	TRAILER	Bulker	12/15/2014 12:30	12/15/2014 20:20

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Prigmore, Dominic (27161)	12/15/2014 12:30	12/15/2014 20:20		
Leue, David (28684)	12/15/2014 12:30	12/15/2014 20:20		
Martinez, Fernando (28421)	12/15/2014 12:30	12/15/2014 20:20		
Pyfer, Kevin (29802)	12/15/2014 12:30	12/15/2014 20:20		
Spirek, Matthew (26921)	12/15/2014 12:30	12/15/2014 20:20		

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	Dec 15,2014 12:30	Arrive On Location		--	--	--	--	0.00
2	Dec 15,2014 12:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 15,2014 13:30	Rig in Complete		--	--	--	--	0.00
4	Dec 15,2014 14:05	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 15,2014 14:17	Pressure Test Start	Water	--	3,200.0	--	--	0.00
6	Dec 15,2014 14:19	Pressure Test Complete		--	--	--	--	0.00
7	Dec 15,2014 14:20	Establish Circulation	Water	1.20	1,000.0	--	5.00	5.00
8	Dec 15,2014 14:23	Mix Cement	0-1-0 G	1.30	900.0	--	4.00	9.00
Remarks: density 15.8								
9	Dec 15,2014 14:27	Displace Fluid	Water	1.30	890.0	--	8.85	17.85
Remarks: displaced to balance								
10	Dec 15,2014 14:32	Stop		--	--	--	--	17.85
Remarks: plug height 826'. top of cement @ 4774' to 5600'...balance plug.								
11	Dec 15,2014 18:10	Pump Spacer	Water	2.00	650.0	--	5.00	17.85
12	Dec 15,2014 18:14	Pump Preflush	Water	2.00	657.0	--	20.00	17.85
Remarks: (SMS)								
13	Dec 15,2014 18:22	Pump Spacer	Water	2.10	859.0	--	5.00	17.85
14	Dec 15,2014 18:23	Mix Cement	0-1-0 G	3.00	650.0	--	66.00	17.85
Remarks: @ 15.8								
15	Dec 15,2014 18:45	Stop		--	--	--	--	17.85
16	Dec 15,2014 18:49	Drop Plug		--	--	--	--	17.85
17	Dec 15,2014 18:46	Displace Fluid	Water	2.50	500.0	--	23.80	17.85
18	Dec 15,2014 19:00	Stop		--	--	--	--	17.85
19	Dec 15,2014 19:05	Job Complete		--	--	--	--	17.85
20	Dec 15,2014 19:15	Wash	Water	1.00	22.0	--	5.00	17.85
21	Dec 15,2014 19:43	Rig Out		--	--	--	--	17.85
22	Dec 15,2014 20:05	Pre-Departure Meeting		--	--	--	--	17.85
23	Dec 15,2014 20:10	Leave Location		--	--	--	--	17.85

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

54356



Pumping Service Report

9201222

Client Name Anadarko Petroleum Corporation	Well Name State L 16 - 16	Rig Leed 724	Job Date December 16, 2014	Call Sheet 1052176
Client Representative Mr. Luis Morales	Surface Well Location SE SE Sec 16:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Prigmore, Dominic (27161)

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)
11.000	40.000	539.000	1,265.000	539.000	1,265.000

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	34.33	8.097	9.625	0.0	539.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	J-55	7,680.000	7.320	2.441	3.668	0.000	1,265.000

Products

Plug 1

From Depth (ft): 200

To Depth (ft): 1265

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 640 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 152 (bbl)
Water Temperature(°F) = 61, Bulk Temperature(°F) = 53, Slurry Temperature(°F) = 64
+ 0.5 % of CaCl₂ (Preblend),
+ 0.3 % of CFL-3 (Preblend),
+ 0.3 % of CFR-2 (Preblend),
+ 0.4 % of CDF-4P (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 200

Wellbore Fluid

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



9201222

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				12/16/2014 09:00	12/16/2014 13:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	12/16/2014 09:00	12/16/2014 13:30
446172	TRAILER	Bulker	746172	TRACTOR	Tandem - Tractor	12/16/2014 09:00	12/16/2014 13:30
746502	BODY JOB	Baby Bulker				12/16/2014 09:00	12/16/2014 13:30
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>			<u>Second Start Shift</u>	<u>Second End Shift</u>	
Prigmore, Dominic (27161)	12/16/2014 09:00	12/16/2014 13:30					
Doran, Benjamin (27933)	12/16/2014 09:00	12/16/2014 13:30					
Vasquez, Brandon (29989)	12/16/2014 09:00	12/16/2014 13:30					
Meade, James (29964)	12/16/2014 09:00	12/16/2014 13:30					

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	Dec 16,2014 09:00	Arrive On Location		--	--	--	--	0.00
2	Dec 16,2014 09:15	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 16,2014 09:45	Rig in Complete		--	--	--	--	0.00
4	Dec 16,2014 10:12	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 16,2014 10:24	Start - Fluid	Water	--	--	--	--	0.00
		Remarks: Prime our lines to well						
6	Dec 16,2014 10:26	Pressure Test Start	Water	--	2,800.0	--	--	0.00
7	Dec 16,2014 10:29	Pressure Test Complete	Water	--	0.0	--	--	0.00
8	Dec 16,2014 10:30	Pump Preflush	Water	3.00	300.0	--	25.00	25.00
		Remarks: Circulation w/ 5bbls, 10bbls SAPP, 10bbls fresh spacer.						
9	Dec 16,2014 10:36	Mix Cement	0:1:0 Type III	3.00	260.0	--	152.00	177.00
		Remarks: Density 14.8						
10	Dec 16,2014 11:54	Displace Fluid	Water	2.00	140.0	--	2.00	179.00
11	Dec 16,2014 12:00	Job Complete		--	--	--	--	179.00
12	Dec 16,2014 13:30	Leave Location		--	--	--	--	179.00

Did Float Hold:

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

54417

54421



Pumping Service Report

9199302

Client Name Anadarko Petroleum Corporation	Well Name State L 16 - 16	Rig Leed 724	Job Date December 17, 2014	Call Sheet 1052266
Client Representative Mr. Luis Morales	Surface Well Location SE SE Sec 16:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Price, Ryan (25840)

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 (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	80.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	---	--	--	--	--	0.000	75.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 75

Plug Type: Abandonment

Acids/Blends/Fluids:

Plug: 50 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 11 (bbl)

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

- + 1 % of CaCl₂ (Preblend),
- + 0.3 % of CFL-3 (Preblend),
- + 0.3 % of CFR-2 (Preblend),
- + 0.4 % of CDF-4P (Preblend),
- + 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
201273	PICKUP	3/4 Ton				12/17/2014 13:30	12/17/2014 16:30
740018-1	BODY JOB	C & A	745070	TRACTOR	Tandem - Tractor	12/17/2014 13:30	12/17/2014 16:30
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	12/17/2014 13:30	12/17/2014 16:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Price, Ryan (25840)	12/17/2014 13:30	12/17/2014 16:30		
Cheal, Samuel (28315)	12/17/2014 13:30	12/17/2014 16:30		
Davila, Israel (28152)	12/17/2014 13:30	12/17/2014 16:30		
Lampp III, Larry (27429)	12/17/2014 13:30	12/17/2014 16:30		



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	Dec 17, 2014 13:30	Arrive On Location		--	--	--	--	0.00
2	Dec 17, 2014 13:35	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 17, 2014 14:15	Rig in Complete		--	--	--	--	0.00
4	Dec 17, 2014 14:18	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 17, 2014 14:30	Establish Circulation	Water	2.00	100.0	--	3.00	3.00
6	Dec 17, 2014 14:35	Pressure Test Start		--	1,000.0	--	--	3.00
7	Dec 17, 2014 14:38	Pressure Test Complete		--	--	--	--	3.00
8	Dec 17, 2014 14:40	N/A		--	--	--	--	3.00
Remarks: batch mixed slurry								
9	Dec 17, 2014 15:06	Mix Cement	0:1:0 Type III	2.00	100.0	--	7.00	10.00
10	Dec 17, 2014 15:10	N/A		--	--	--	--	10.00
Remarks: rigged into back side								
11	Dec 17, 2014 15:17	Mix Cement	0:1:0 Type III	0.50	--	100.0	4.00	14.00
12	Dec 17, 2014 15:26	Pump Displacement	Water	0.50	--	100.0	1.00	15.00
13	Dec 17, 2014 15:28	Stop		--	--	--	--	15.00
14	Dec 17, 2014 15:35	Wash		--	--	--	--	15.00
15	Dec 17, 2014 15:55	Rig Out		--	--	--	--	15.00
16	Dec 17, 2014 16:15	Job Complete		--	--	--	--	15.00
17	Dec 17, 2014 16:25	Pre-Departure Meeting		--	--	--	--	15.00
18	Dec 17, 2014 16:30	Leave Location		--	--	--	--	15.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 1

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes