



## Pumping Service Report

9207953

Client Name Anadarko Petroleum Corporation	Well Name Olin 17-12K	Rig Leed 721	Job Date August 31,2015	Call Sheet 1060429
Client Representative Mr. Nate Windholz	Surface Well Location NW SW Sec 17:T3N:R66W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor

### 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	--	4,500.000	4,039.000	--	--

### 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)
4.500	11.600		--	--	--	--	--	4,500.0	0.0

### 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		--	--	--	--	4,124.000	0.000

### Products

#### Plug 1

From Depth (ft): 4500

To Depth (ft): 3931

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 280 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 57 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

#### Plug 2

From Depth (ft):

To Depth (ft): 1905

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 20 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 4 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

### Fluid & Cement Data

Expected Cement Top: Depth (ft): 1905

#### Wellbore Fluid

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



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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>
201386	PICKUP	1 Ton				08/31/2015 08:30	08/31/2015 15:30
740004	BODY JOB	C & A				08/31/2015 08:30	08/31/2015 15:30
446171	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	08/31/2015 08:30	08/31/2015 15:30
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Klosterman, Austin (27698)	08/31/2015 08:30	08/31/2015 15:30					
Cheal, Samuel (28315)	08/31/2015 08:30	08/31/2015 15:30					
Hilt, Brandon (30128)	08/31/2015 08:30	08/31/2015 15:30					



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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	Aug 31,2015 08:30	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Aug 31,2015 08:40	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Aug 31,2015 10:40	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Aug 31,2015 10:50	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Aug 31,2015 11:15	Pressure Test Start	Water	0.00	2,500.0	0.0	0.00	0.00
6	Aug 31,2015 11:16	Pressure Test Complete	Water	0.00	2,500.0	0.0	0.00	0.00
7	Aug 31,2015 11:18	Pump Preflush	Water	2.50	1,000.0	0.0	5.00	5.00
		Remarks: Fresh.						
8	Aug 31,2015 11:20	Pump Preflush	Water	2.00	1,100.0	0.0	20.00	25.00
		Remarks: SMS.						
9	Aug 31,2015 11:28	Pump Preflush	Water	2.00	1,100.0	0.0	5.00	30.00
		Remarks: Fresh.						
10	Aug 31,2015 11:30	Pump	0-1-0 G	3.00	1,400.0	0.0	57.40	87.40
		Remarks: Mix up and pump 280sx@15.8@, Yield 1.15, WR 4.98, MixH2O 33bbls, Scaled @1150@15.8#.						
11	Aug 31,2015 12:02	Displace Fluid	Water	3.20	1,500.0	0.0	13.00	100.40
12	Aug 31,2015 12:10	Wait On Instructions		0.00	0.0	0.0	0.00	100.40
13	Aug 31,2015 13:53	Establish Circulation	Water	3.00	250.0	0.0	5.00	5.00
		Remarks: Fresh.						
14	Aug 31,2015 13:55	Pump	0-1-0 G	2.50	250.0	0.0	4.10	9.10
		Remarks: Mix up and pump 20sx@15.8#, Yield 1.15, WR 4.98, MixH2O 2.5bbls, Scaled @1358@15.8#.						
15	Aug 31,2015 13:58	Displace Fluid	Water	3.00	200.0	0.0	6.50	15.60
16	Aug 31,2015 14:30	Rig Out		0.00	0.0	0.0	0.00	15.60
17	Aug 31,2015 14:45	Job Complete		0.00	0.0	0.0	0.00	100.40
18	Aug 31,2015 15:30	Leave Location		0.00	0.0	0.0	0.00	100.40

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

65618

65617



## Pumping Service Report

9207909

Client Name Anadarko Petroleum Corporation	Well Name Olin 17-12K	Rig Leed 721	Job Date September 01,2015	Call Sheet 1060466
Client Representative Mr. Nate Windholz	Surface Well Location NW SW Sec 17:T3N:R66W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor

### 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)
8.500	--	496.000	540.000	--	--

### 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	J-55	4,960.0	5,350.0	0.62	4.000	5.000	540.0	580.0
8.625	24.000	J-55	1,370.0	2,950.0	31.59	8.097	9.625	0.0	496.0

### 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	J-55	8,100.000	2.240	1.995	2.910	0.000	580.000

### Products

#### Plug 1

From Depth (ft): 200

To Depth (ft): 580

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 90 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 21.3 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 85

+ 1 % of CaCl<sub>2</sub> (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



## Pumping Service Report

9207909

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>
201191	PICKUP	1 Ton				09/01/2015 10:00	09/01/2015 12:30
740067	BODY JOB	C & A				09/01/2015 10:00	09/01/2015 12:30
446145	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	09/01/2015 10:00	09/01/2015 12:30
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>			<u>Second Start Shift</u>	<u>Second End Shift</u>	
Schneider, Patrick (24093)	09/01/2015 10:00	09/01/2015 12:30					
Barden, Sean (27711)	09/01/2015 10:00	09/01/2015 12:30					
Johnson, Jakob (30073)	09/01/2015 10:00	09/01/2015 12:30					

**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	Sep 01,2015 10:00	Arrive On Location		--	--	--	--	0.00
2	Sep 01,2015 10:05	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedures						
3	Sep 01,2015 10:20	Rig In		--	--	--	--	0.00
4	Sep 01,2015 10:35	Rig in Complete		--	--	--	--	0.00
5	Sep 01,2015 10:45	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
6	Sep 01,2015 11:07	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
7	Sep 01,2015 11:08	Pressure Test Start	Water	--	3,000.0	--	--	1.00
8	Sep 01,2015 11:10	Pressure Test Complete	Water	--	0.0	--	--	1.00
		Remarks: good pressure test						
9	Sep 01,2015 11:10	Pump Preflush	Water	2.00	75.0	--	10.00	11.00
		Remarks: mud flush						
10	Sep 01,2015 11:14	Pump Spacer	Water	2.50	100.0	--	20.00	31.00
		Remarks: fresh water						
11	Sep 01,2015 11:25	Mix Cement	0:1:0 Type III	2.50	100.0	--	21.30	52.30
		Remarks: 90 sks plug cement @ 14.8 ppg yield = 1.33 h2o req = 6.31 total h2o = 13.5						
12	Sep 01,2015 11:35	Displace Fluid	Water	1.00	0.0	--	0.50	52.80
		Remarks: displaced to balance						
13	Sep 01,2015 11:36	Balance Plug	Water	--	0.0	--	--	52.80
14	Sep 01,2015 11:40	Tailgate Meeting		--	--	--	--	52.80
		Remarks: revisited JSA						
15	Sep 01,2015 11:45	Rig Out		--	--	--	--	52.80
16	Sep 01,2015 12:00	Wash	Water	--	--	--	--	52.80
		Remarks: washed pump and lines						
17	Sep 01,2015 12:15	Job Complete		--	--	--	--	52.80
18	Sep 01,2015 12:20	Pre-Departure Meeting		--	--	--	--	52.80
19	Sep 01,2015 12:30	Leave Location		--	--	--	--	52.80

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

65630

65631