



**Pumping  
Service Report**

**9185881**

Client Name Anadarko Petroleum Corporation	Well Name Heit 10-13A	Job Date October 30, 2013	Call Sheet 1032244
Client Representative Mr Luis Morales	Location NW SE Sec 13:T2N:R67W	Job Type Abandonment Plugs	

**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)
8.625	24.000	J-55	1,370.0	2,950.0	40.70	8.097	9.625	0.0	639.0
4.500	11.600	J-55	4,960.0	5,350.0	1.55	4.000	5.000	1,300.0	1,400.0

**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	5.410	1.995	2.910	0.000	1,400.000

**Products**

**Plug 1**

From Depth (ft):

To Depth (ft):

Plug Type : N/A

Acids/Blends/Fluids :

Lead 1: 310 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 80.6 (bbl)

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

**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 24, 2013 08:35



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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>
449095	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	10/30/2013 15:30	10/30/2013 21:10
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	10/30/2013 15:30	10/30/2013 21:10
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	10/30/2013 15:30	10/30/2013 21:10
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>		<u>Second Start Shift</u>		<u>Second End Shift</u>
Johnson, Quintin	10/30/2013 15:30		10/30/2013 21:10				
Morris, Theodore	10/30/2013 15:30		10/30/2013 21:10				
Durham, Adrian	10/30/2013 15:30		10/30/2013 21:10				
Hansen, Kevin	10/30/2013 15:30		10/30/2013 21:10				
Treatment Reports & Remarks							



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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	Oct 30, 2013 15:30	Arrive On Location	---	--	--	--	--	0.00
		Remarks: arrived 30 minutes ahead of schedule						
2	Oct 30, 2013 15:35	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: talked about spotting trucks						
3	Oct 30, 2013 16:10	Rig In	---	--	--	--	--	0.00
		Remarks: rig in our iron						
4	Oct 30, 2013 18:50	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: signed our and their JSA						
5	Oct 30, 2013 18:52	Safety Meeting	---	--	--	--	--	0.00
		Remarks: talked about the job scope and safety to be carried out through the job						
6	Oct 30, 2013 19:15	Start - Fluid	Water	2.00	100.0	--	1.00	1.00
		Remarks: filled lines for pressure test						
7	Oct 30, 2013 19:17	Pressure Test	Water	0.00	3,000.0	--	0.00	1.00
		Remarks: pressure up to check our lines and valves						
8	Oct 30, 2013 19:22	Establish Circulation	Water	2.00	280.0	--	6.00	7.00
		Remarks: got good circulation						
9	Oct 30, 2013 19:39	Mix Cement	0:1:0 Type III	3.40	340.0	--	80.60	87.60
		Remarks: mixed slurry at 14.2 density						
10	Oct 30, 2013 20:03	Pump Displacement	Water	2.00	200.0	--	1.00	88.60
		Remarks: cleared our lines and their tubing						
11	Oct 30, 2013 20:05	Stop	---	--	--	--	--	88.60
		Remarks: rig off for wash up						
12	Oct 30, 2013 20:15	Wash	Water	--	--	--	--	88.60
		Remarks: wash our plumbing and pumps on the pump truck						
13	Oct 30, 2013 20:50	Rig Out	---	--	--	--	--	88.60
		Remarks: rig our iron out						
14	Oct 30, 2013 21:00	Pre-Departure Meeting	---	--	--	--	--	88.60
		Remarks: journey management for the trip home						
15	Oct 30, 2013 21:05	Job Complete	---	--	--	--	--	88.60
		Remarks: job done convey down						
16	Oct 30, 2013 21:05	Leave Location	---	--	--	--	--	88.60
		Remarks: going home						

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

22868

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: October 30, 2013

Service Report: 9185881

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V3.8.0.0



**Pumping  
Service Report**

**9185880**

Client Name Anadarko Petroleum Corporation	Well Name Heit 10-13A	Job Date October 30, 2013	Call Sheet 1032234
Client Representative Mr Luis Morales	Location NW SE Sec 13:T2N:R67W	Job Type Abandonment Plugs	

**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	65.43	4.000	5.000	0.0	4,210.0

**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	16.280	1.995	2.910	0.000	4,210.000

**Products**

**Plug 1**

From Depth (ft):

To Depth (ft):

Plug Type : N/A

Acids/Blends/Fluids :

Lead 1: 30 Sacks of 0-1-0 G, Density = 15.6 lb/gal, Volume Pumped = 6.1 (bbl)

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

+ 0.5 % of CFR,

+ 0.25 % of FMC,

+ 0.5 % of LWA,

+ 0.25 lb/sack of Polyflake

**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	---	---	---	--	Oct 24, 2013 08:35



**Pumping  
Service Report**

**9185880**

**Units & Personnel**

<b>Units</b>							
<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>
449095	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	10/30/2013 09:30	10/30/2013 12:23
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	10/30/2013 09:30	10/30/2013 12:23
446152	TRAILER	Booster	746152	TRACTOR	Tandem - Tractor	10/30/2013 09:30	10/30/2013 12:23

<b>Crew and Bonuses</b>				
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Johnson, Quintin	10/30/2013 09:30	10/30/2013 12:24		
Morris, Theodore	10/30/2013 09:30	10/30/2013 12:24		
Schnacker, Leon	10/30/2013 09:30	10/30/2013 12:24		
Grambart, Philip	10/30/2013 09:30	10/30/2013 12:24		

**Treatment Reports & Remarks**



**Pumping  
Service Report**

**9185880**

**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	Oct 30,2013 09:30	Arrive On Location	---	---	--	--	--	0.00
		Remarks: arrived on time						
2	Oct 30,2013 09:35	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: talked about how to spot trucks						
3	Oct 30,2013 09:40	Rig In	---	--	--	--	--	0.00
		Remarks: rigged our iron on to well and set up for bulking						
4	Oct 30,2013 10:50	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: signed our and their JSA						
5	Oct 30,2013 10:51	Safety Meeting	---	--	--	--	--	0.00
		Remarks: talked about job scope and safety concerns on the job.						
6	Oct 30,2013 11:00	Start - Fluid	Water	2.00	60.0	--	1.00	1.00
		Remarks: filled our lines for pressure test						
7	Oct 30,2013 11:03	Pressure Test	Water	0.00	3,000.0	--	0.00	1.00
		Remarks: pressure tested lines, pop offs went at 3200 psi, lines were good.						
8	Oct 30,2013 11:20	Establish Circulation	Water	2.00	280.0	--	4.00	5.00
		Remarks: got good circulation						
9	Oct 30,2013 11:25	Mix Cement	0-1-0 G	2.00	60.0	--	6.10	11.10
		Remarks: mixed slurry at 15.6						
10	Oct 30,2013 11:30	Pump Displacement	Water	2.00	60.0	--	16.30	27.40
		Remarks: pumped tubing clear of slurry to a balance						
11	Oct 30,2013 11:35	Stop	---	--	--	--	--	27.40
		Remarks: stop rig off for wash up						
12	Oct 30,2013 11:45	Wash	Water	2.00	200.0	--	30.00	27.40
		Remarks: wash up for truck						
13	Oct 30,2013 12:30	Rig Out	---	--	--	--	--	27.40
		Remarks: rig our iron out						
14	Oct 30,2013 12:45	Pre-Departure Meeting	---	--	--	--	--	27.40
		Remarks: journey mangement to the next job						
15	Oct 30,2013 12:50	Job Complete	---	--	--	--	--	27.40
		Remarks: job done						
16	Oct 30,2013 12:55	Leave Location	---	--	--	--	--	27.40
		Remarks: leave location to the yard						

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

22858



**Pumping  
Service Report**

**9184348**

Client Name Anadarko Petroleum Corporation	Well Name Heit 10-13A	Job Date October 29, 2013	Call Sheet 1032196
Client Representative Mr Luis Morales	Location NW SE Sec 13:T2N:R67W	Job Type Abandonment Plugs	

**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	J-55	4,960.0	5,350.0	78.18	4.000	5.000	0.0	5,030.0

**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	19.450	1.995	2.910	0.000	5,030.000

**Products**

**Plug 1**

From Depth (ft):

To Depth (ft):

Plug Type : N/A

Acids/Blends/Fluids :

Lead 1: 70 Sacks of 0-1-0 G, Density = 15.6 lb/gal, Volume Pumped = 14.3 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60  
+ 0.5 % of CFR,  
+ 0.25 % of FMC,  
+ 0.5 % of LWA,  
+ 0.25 lb/sack of Polyflake

**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 24, 2013 08:35



**Pumping  
Service Report**

**9184348**

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	200868	PICKUP	3/4 Ton	10/29/2013 14:30	10/29/2013 18:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	10/29/2013 14:30	10/29/2013 18:30
446152	TRAILER	Booster	746152	TRACTOR	Tandem - Tractor	10/29/2013 14:30	10/29/2013 18:30
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Hardwick, Waco	10/29/2013 14:30		10/29/2013 18:30				
Maguire, Matthew	10/29/2013 14:30		10/29/2013 18:30				
Cox, Brandon	10/29/2013 14:30		10/29/2013 18:30				
Paiu, Corneliu	10/29/2013 14:30		10/29/2013 18:30				

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	Oct 29,2013 14:30	Arrive On Location	---	--	--	--	--	0.00
2	Oct 29,2013 14:45	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 29,2013 14:55	Rig In	---	--	--	--	--	0.00
4	Oct 29,2013 16:30	Safety Meeting	---	--	--	--	--	0.00
5	Oct 29,2013 16:35	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 29,2013 17:07	Establish Circulation	Water	2.00	400.0	0.0	2.00	2.00
7	Oct 29,2013 17:09	Pressure Test	Water	0.30	2,000.0	0.0	0.50	2.50
8	Oct 29,2013 17:14	Pump	0-1-0 G	2.00	400.0	0.0	14.30	16.80
9	Oct 29,2013 17:22	Displace Fluid	Water	2.00	100.0	0.0	15.50	32.30
10	Oct 29,2013 17:45	Wash	Water	2.00	--	--	25.00	0.00
11	Oct 29,2013 18:05	Rig Out	---	--	--	--	--	0.00
12	Oct 29,2013 18:25	Job Complete	---	--	--	--	--	0.00
13	Oct 29,2013 18:35	Pre-Departure Meeting	---	--	--	--	--	0.00
14	Oct 29,2013 18:40	Leave Location	---	--	--	--	--	0.00
Did Float Hold:		Not Applicable						
Fluid Returns :		Yes						
Type :		Water						
Volume (bbl) :		32.3						
Temperature (°F) :		60						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						
Material Transfer Sheet Number								
Material Transfer Sheet Number								
22859								





**Pumping  
Service Report**

**9184347**

Client Name Anadarko Petroleum Corporation	Well Name Heit 10-13A	Job Date October 29, 2013	Call Sheet 1032188
Client Representative Mr Luis Morales	Location NW SE Sec 13:T2N:R67W	Job Type Abandonment Plugs	

**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	110.66	4.000	5.000	0.0	7,120.0

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	27.530	1.995	2.910	0.000	7,120.000

**Products**

<b>Plug 1</b>
From Depth (ft):
To Depth (ft):
Plug Type : N/A
Acids/Blends/Fluids :
Lead 1: 30 Sacks of Thermal 35, Density = 15.4 lb/gal, Volume Pumped = 8.1 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 0.5 % of CFR,
+ 0.25 % of FMC

**Fluid & Cement Data**

Expected Cement Top: --					
<b>Wellbore Fluid</b>					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 24, 2013 08:35



**Pumping  
Service Report**

**9184347**

**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	200868	PICKUP	3/4 Ton	10/29/2013 12:00	10/29/2013 14:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	10/29/2013 12:00	10/29/2013 14:30
746506	BODY JOB	Baby Bulker				10/29/2013 12:00	10/29/2013 14:30
Crew and Bonuses							
Employee	Start Shift	End Shift	Second Start Shift		Second End Shift		
Hardwick, Waco	10/29/2013 12:00	10/29/2013 14:30					
Maguire, Matthew	10/29/2013 12:00	10/29/2013 14:30					
Young, Craig	10/29/2013 12:00	10/29/2013 14:30					
Grambart, Philip	10/29/2013 12:00	10/29/2013 14:30					

**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	Oct 29, 2013 12:00	Arrive On Location	---	--	--	--	--	0.00
2	Oct 29, 2013 12:15	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 29, 2013 12:25	Rig In	---	--	--	--	--	0.00
4	Oct 29, 2013 13:05	Safety Meeting	---	--	--	--	--	0.00
5	Oct 29, 2013 13:15	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 29, 2013 13:21	Establish Circulation	Water	1.75	400.0	0.0	1.00	1.00
7	Oct 29, 2013 13:19	Pressure Test	Water	0.30	2,000.0	0.0	0.50	1.50
8	Oct 29, 2013 13:37	Pump	Thermal 35	2.00	400.0	0.0	8.10	9.60
9	Oct 29, 2013 13:41	Displace Fluid	Water	2.25	400.0	0.0	25.30	34.90
10	Oct 29, 2013 13:55	Wash	Water	2.00	--	--	25.00	0.00
11	Oct 29, 2013 14:05	Rig Out	---	--	--	--	--	0.00
12	Oct 29, 2013 14:15	Job Complete	---	--	--	--	--	0.00
13	Oct 29, 2013 14:20	Pre-Departure Meeting	---	--	--	--	--	0.00
14	Oct 29, 2013 14:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Not Applicable  
Fluid Returns : Yes  
Type : Water  
Volume (bbl) : 34.9  
Temperature (°F) : 60  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design? : Yes

**Material Transfer Sheet Number**

Material Transfer Sheet Number  
22855