



**Pumping
Service Report**

9188056

Client Name Anadarko Petroleum Corporation	Well Name Willard Hein Gas Unit #1	Job Date March 31, 2014	Call Sheet 1040646
Client Representative Larry Webb	Location SW NE Sec 4:T1N:R67W	Job Type Abandonment Plugs	Rig Leed 724

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	127.59	4.052	5.000	0.0	8,000.0

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	26.750	1.995	2.910	0.000	6,920.000

Products

Plug 1

From Depth (ft):

To Depth (ft):

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 130 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 39.59 (bbl)

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

+ 20 % of Silica Flour,

+ 3 % of Gel,

+ 0.1 % of SMS,

+ 0.4 % of CFR-2,

+ 0.4 % of CFL-3

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.340	--	--	Mar 24, 2014 18:38

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Bridge Plug	8,000.000	Third Party
Cement Retainer	6,920.000	Third Party



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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>
449086	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	03/31/2014 06:00	03/31/2014 11:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	03/31/2014 06:00	03/31/2014 11:00
746508	BODY JOB	Baby Bulker				03/31/2014 06:00	03/31/2014 11:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J	03/31/2014 06:00	03/31/2014 11:00		
Durham, Adrian	03/31/2014 06:00	03/31/2014 11:00		
Doran, Benjamin	03/31/2014 06:00	03/31/2014 11:00		
Rogers, Clifford	03/31/2014 06:00	03/31/2014 11:00		

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	Mar 31, 2014 07:00	Arrive On Location	---	--	--	--	--	0.00
2	Mar 31, 2014 07:15	Tailgate Meeting	---	--	--	--	--	0.00
3	Mar 31, 2014 07:30	Rig In	---	--	--	--	--	0.00
4	Mar 31, 2014 08:30	Safety Meeting	---	--	--	--	--	0.00
5	Mar 31, 2014 08:45	Sign-off on Safety	---	--	--	--	--	0.00
6	Mar 31, 2014 09:05	Pressure Test	Water	0.50	3,500.0	--	1.00	1.00
7	Mar 31, 2014 09:10	Pump	Water	2.00	700.0	--	10.00	11.00
8	Mar 31, 2014 09:17	Pump	1-1-0 G	2.00	300.0	--	39.59	50.59
9	Mar 31, 2014 09:33	Displace Fluid	Water	2.00	800.0	--	26.50	77.09
10	Mar 31, 2014 09:45	Wash	Water	2.00	22.0	--	20.00	97.09
11	Mar 31, 2014 10:00	Rig Out	---	--	--	--	--	97.09
12	Mar 31, 2014 10:30	Job Complete	---	--	--	--	--	97.09
13	Mar 31, 2014 10:45	Pre-Departure Meeting	---	--	--	--	--	97.09
14	Mar 31, 2014 11:00	Leave Location	---	--	--	--	--	97.09

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

37190



**Pumping
Service Report**

9188057

Client Name Anadarko Petroleum Corporation	Well Name Willard Hein Gas Unit #1	Job Date March 31, 2014	Call Sheet 1040673
Client Representative Larry Webb	Location SW NE Sec 4:T1N:R67W	Job Type Abandonment Plugs	Rig Leed 724

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	10.500	J-55	4,010.0	4,790.0	68.58	4.052	5.000	0.0	4,300.0

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	16.620	1.995	2.910	0.000	4,300.000

Products

Plug 1

From Depth (ft):

To Depth (ft):

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 410 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 83.97 (bbl)

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

+ 0.25 % of FMC,

+ 0.5 % of CFR-2,

+ 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	--	8.340	--	--	Mar 24, 2014 18:38

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	4,300.000	Third Party



**Pumping
Service Report**

9188057

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>
449086	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	03/31/2014 13:30	03/31/2014 17:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	03/31/2014 13:30	03/31/2014 17:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	03/31/2014 13:30	03/31/2014 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	03/31/2014 13:30	03/31/2014 17:15		
Durham, Adrian	03/31/2014 13:30	03/31/2014 17:15		
Doran, Benjamin	03/31/2014 13:30	03/31/2014 17:15		
Rogers, Clifford	03/31/2014 13:30	03/31/2014 17:15		
Stewart, Stacey	03/31/2014 13:30	03/31/2014 17:15		

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	Mar 31, 2014 13:30	Arrive On Location	---	--	--	--	--	0.00
2	Mar 31, 2014 13:45	Tailgate Meeting	---	--	--	--	--	0.00
3	Mar 31, 2014 13:55	Rig In	---	--	--	--	--	0.00
4	Mar 31, 2014 14:30	Safety Meeting	---	--	--	--	--	0.00
5	Mar 31, 2014 14:45	Sign-off on Safety	---	--	--	--	--	0.00
6	Mar 31, 2014 14:55	Pressure Test	Water	0.50	3,000.0	--	1.00	1.00
7	Mar 31, 2014 15:00	Establish Circulation	Water	2.00	1,500.0	--	5.00	6.00
8	Mar 31, 2014 15:03	Pump Preflush	Water	2.00	1,200.0	--	20.00	26.00
Remarks: SMS								
9	Mar 31, 2014 15:11	Pump Spacer	Water	2.00	1,200.0	--	5.00	31.00
10	Mar 31, 2014 15:15	Pump	0-1-0 G	2.00	1,300.0	--	83.97	114.97
11	Mar 31, 2014 15:55	Displace Fluid	Water	2.00	1,000.0	--	16.50	131.47
12	Mar 31, 2014 16:00	Wash	Water	--	--	--	--	131.47
13	Mar 31, 2014 16:30	Rig Out	---	--	--	--	--	131.47
14	Mar 31, 2014 16:45	Job Complete	---	--	--	--	--	131.47
15	Mar 31, 2014 17:00	Pre-Departure Meeting	---	--	--	--	--	131.47
16	Mar 31, 2014 17:15	Leave Location	---	--	--	--	--	131.47

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



**Pumping
Service Report**

9188115

Client Name Anadarko Petroleum Corporation	Well Name Willard Hein Gas Unit #1	Job Date April 01, 2014	Call Sheet 1040695
Client Representative Larry Webb	Location SW NE Sec 4:T1N:R67W	Job Type Abandonment Plugs	Rig Leed 724

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	--	875.000	1,435.000	875.000	1,435.000

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	22.30	4.000	5.000	0.0	1,435.0

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	3.420	1.995	2.910	0.000	885.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 1435

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 350 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 91 (bbl)

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

+ 1 % of CaCl₂,

+ 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	--	8.340	--	--	Mar 24, 2014 18:38



Pumping Service Report

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Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449095	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	04/01/2014 08:45	04/01/2014 12:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	04/01/2014 08:45	04/01/2014 12:30
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	04/01/2014 08:45	04/01/2014 12:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hardwick, Waco	04/01/2014 08:45	04/01/2014 12:30		
Klosterman, Austin	04/01/2014 08:45	04/01/2014 12:30		
Hansen, Kevin	04/01/2014 08:45	04/01/2014 12:30		
Barden, Sean	04/01/2014 08:45	04/01/2014 12:30		

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	Apr 01, 2014 09:00	Arrive On Location		--	--	--	--	0.00
2	Apr 01, 2014 09:15	Tailgate Meeting		--	--	--	--	0.00
3	Apr 01, 2014 09:25	Rig In		--	--	--	--	0.00
4	Apr 01, 2014 09:40	Safety Meeting		--	--	--	--	0.00
5	Apr 01, 2014 09:50	Sign-off on Safety		--	--	--	--	0.00
6	Apr 01, 2014 09:57	Pressure Test	Water	0.30	2,000.0	0.0	0.50	0.50
7	Apr 01, 2014 10:00	Establish Circulation	Water	1.80	700.0	0.0	13.00	13.50
		Remarks: Did not get circulation, did get an injection rate, went to cement at Client direction.						
8	Apr 01, 2014 10:13	Pump	0:1:0 Type III	2.00	500.0	0.0	85.00	98.50
9	Apr 01, 2014 10:54	Pull Out Off Retainer		--	--	--	--	98.50
		Remarks: Rig crew pulled out of retainer so we could spot slurry above retainer.						
10	Apr 01, 2014 10:54	Pump	0:1:0 Type III	2.00	500.0	0.0	8.00	106.50
		Remarks: spotted 8 bbls. slurry above retainer.						
11	Apr 01, 2014 10:58	Displace Fluid	Water	2.00	450.0	0.0	1.50	108.00
12	Apr 01, 2014 11:15	Wash	Water	2.00	--	--	20.00	0.00
13	Apr 01, 2014 11:40	Rig Out	---	--	--	--	--	0.00
14	Apr 01, 2014 12:05	Job Complete	---	--	--	--	--	0.00
15	Apr 01, 2014 12:20	Pre-Departure Meeting	---	--	--	--	--	0.00
16	Apr 01, 2014 12:30	Leave Location	---	--	--	--	--	0.00



**Pumping
Service Report**

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Treatment Reports & Remarks

Did Float Hold: Not Applicable
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 1
Temperature (°F) : 65
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

37198



**Pumping
Service Report**

9187271

Client Name Anadarko Petroleum Corporation	Well Name Willard Hein Gas Unit #1	Job Date April 02, 2014	Call Sheet 1040721
Client Representative Larry Webb	Location SW NE Sec 4:T1N:R67W	Job Type Abandonment Plugs	Rig Leed 724

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	0.47	4.000	5.000	210.0	240.0
8.625	28.000	J-55	1,880.0	3,400.0	12.80	8.017	9.625	0.0	205.0

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	0.930	1.995	2.910	0.000	240.000

Products

Plug 1

From Depth (ft): 80
To Depth (ft): 240
Plug Type : Abandonment
Acids/Blends/Fluids :
Tail: 40 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 10.4 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 1 % of CaCl₂,
+ 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	--	8.340	--	--	Mar 24, 2014 18:38



**Pumping
Service Report**

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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>
200866	PICKUP	3/4 Ton				04/02/2014 07:00	04/02/2014 09:45
740004	BODY JOB	C & A				04/02/2014 07:00	04/02/2014 09:45
446167	TRAILER	Bulker	746167	TRACTOR	Tandem - Tractor	04/02/2014 07:00	04/02/2014 09:45
746502	BODY JOB	Baby Bulker				04/02/2014 08:30	04/02/2014 09:45

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Cooper, Jeremy	04/02/2014 07:00	04/02/2014 09:45		
Morris, Theodore	04/02/2014 07:00	04/02/2014 09:45		
Young, Craig	04/02/2014 07:00	04/02/2014 09:45		
Pigg, Martin	04/02/2014 07:00	04/02/2014 09:45		
Peterson, Ryan	04/02/2014 08:30	04/02/2014 09:45		
Johnson, Quintin	04/02/2014 08:30	04/02/2014 09:45		

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	Apr 02, 2014 06:30	Arrive On Location	---	--	--	--	--	0.00
2	Apr 02, 2014 06:30	Tailgate Meeting	---	--	--	--	--	0.00
3	Apr 02, 2014 06:45	Rig In	---	--	--	--	--	0.00
4	Apr 02, 2014 07:45	Safety Meeting	---	--	--	--	--	0.00
5	Apr 02, 2014 08:00	Sign-off on Safety	---	--	--	--	--	0.00
6	Apr 02, 2014 08:17	Pressure Test	Water	--	--	--	--	0.00
Remarks: 1400 PSI								
7	Apr 02, 2014 08:19	Forward Circulate	Water	2.00	100.0	--	10.00	10.00
8	Apr 02, 2014 08:25	Batch Mix	0:1:0 Type III	--	--	--	--	10.00
Remarks: MIX CEMENT TO 14.2 PPG								
9	Apr 02, 2014 08:40	Pump	0:1:0 Type III	2.00	100.0	--	10.40	20.40
Remarks: 14.2 PPG 1.46 YEILD 7.32 W/R FROM 240' TO 80'								
10	Apr 02, 2014 08:46	Forward Circulate	Water	2.00	100.0	--	1.50	21.90
11	Apr 02, 2014 09:00	Wash	Water	--	--	--	--	0.00
12	Apr 02, 2014 09:15	Rig Out	---	--	--	--	--	0.00
13	Apr 02, 2014 09:30	Job Complete	---	--	--	--	--	0.00
14	Apr 02, 2014 09:30	Pre-Departure Meeting	---	--	--	--	--	0.00
15	Apr 02, 2014 09:30	Leave Location	---	--	--	--	--	0.00



**Pumping
Service Report**

9187271

Treatment Reports & Remarks

Did Float Hold: Not Applicable
Fluid Returns : Yes
Type : Water
Volume (bbl) : 22
Temperature (°F) : 60
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

9265