



Pumping Service Report

9184623

Client Name Anadarko Petroleum Corporation	Well Name Harmon 12 - 36	Rig BWS 12	Job Date March 04,2015	Call Sheet 1056198
Client Representative Mr. Socorro Olivas	Surface Well Location NW SW Sec 36:T4N:R66W	Down Hole Well Location	Job Type Miscellaneous Pumping	Lead Supervisor



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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	27.58	8.097	9.625	0.0	433.0
4.500	11.600	J-55	4,960.0	5,350.0	108.14	4.000	5.000	433.0	7,391.0

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	26.790	1.995	2.910	0.000	6,930.000

Products

Plug 1

From Depth (ft): 6930

To Depth (ft): 6499

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 25 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 6.7 (bbl)

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

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of ASM-3 (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6499

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201168	PICKUP	1 Ton				03/04/2015 12:50	03/04/2015 16:00
740004	BODY JOB	C & A				03/04/2015 12:50	03/04/2015 16:00
746506	BODY JOB	Baby Bulker				03/04/2015 12:50	03/04/2015 16:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Maguire, Matthew (26325)	03/04/2015 12:50	03/04/2015 16:00		
Cheal, Samuel (28315)	03/04/2015 12:50	03/04/2015 16:00		
Pigg, Martin (28301)	03/04/2015 12:50	03/04/2015 16:00		
Meade, James (29964)	03/04/2015 12:50	03/04/2015 16:00		



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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	Mar 04,2015 12:50	Arrive On Location		--	--	--	--	0.00
2	Mar 04,2015 12:55	Tailgate Meeting		--	--	--	--	0.00
		Remarks: Signed in at company dog house, filled out JSA.						
3	Mar 04,2015 13:10	Crew Briefing (Rig in)		--	--	--	--	0.00
4	Mar 04,2015 13:30	Rig in Complete		--	--	--	--	0.00
5	Mar 04,2015 13:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
6	Mar 04,2015 13:40	STEACS Briefing		--	--	--	--	0.00
7	Mar 04,2015 13:50	Sign-off on Safety		--	--	--	--	0.00
8	Mar 04,2015 13:59	Start - Fluid	Water	1.30	200.0	--	1.00	1.00
		Remarks: Filled lines.						
9	Mar 04,2015 14:02	Pressure Test Start	Water	--	2,500.0	--	--	1.00
10	Mar 04,2015 14:03	Pressure Test Complete	Water	--	2,500.0	--	--	1.00
		Remarks: All lines held pressure.						
11	Mar 04,2015 14:04	Establish Circulation	Water	2.00	500.0	--	2.00	3.00
		Remarks: We had circulation.						
12	Mar 04,2015 14:21	Mix Cement	Thermal 35	2.00	500.0	--	6.70	9.70
		Remarks: WR=6.08,						
13	Mar 04,2015 14:25	Displace Fluid	Water	2.50	500.0	--	25.00	34.70
		Remarks: Displaced to a balanced plug.						
14	Mar 04,2015 14:35	Stop		--	--	--	--	34.70
15	Mar 04,2015 14:50	Wash	Water	1.50	100.0	--	20.00	34.70
16	Mar 04,2015 15:15	Rig Out		--	--	--	--	34.70
		Remarks: Revisit JSA.						
17	Mar 04,2015 15:45	Pre-Departure Meeting		--	--	--	--	34.70
18	Mar 04,2015 15:50	Job Complete		--	--	--	--	34.70
19	Mar 04,2015 16:00	Leave Location		--	--	--	--	34.70
		Remarks: Revisit JSA, leave location safely.						

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

57521



Pumping Service Report

9190127

Client Name Anadarko Petroleum Corporation	Well Name Harmon 12 - 36	Rig BWS 12	Job Date March 05,2015	Call Sheet 1056241
Client Representative Mr. Socorro Olivas	Surface Well Location NW SW Sec 36:T4N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	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): --- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	--	4,500.000	4,000.000	--	--

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	69.94	4.000	5.000	0.0	4,500.0

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	15.580	1.995	2.910	0.000	4,030.000

Products

Plug 1

From Depth (ft): 4030

To Depth (ft): 4500

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 230 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 47.1 (bbl)

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

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	4,030.000	Third Party



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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
449093	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	03/05/2015 09:00	03/05/2015 12:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	03/05/2015 09:00	03/05/2015 12:00
446092	TRAILER	Bulker	746092	TRACTOR	Tandem - Tractor	03/05/2015 09:00	03/05/2015 12:00
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Johnson, Quintin (23945)	03/05/2015 09:00		03/05/2015 12:00				
Svoboda, Miloslav (28226)	03/05/2015 09:00		03/05/2015 12:00				
Lindsay, Kevin (27589)	03/05/2015 09:00		03/05/2015 12:00				
Treatment Reports & Remarks							



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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	Mar 05,2015 09:00	Arrive On Location		--	--	--	--	0.00
		Remarks: arrived on time						
2	Mar 05,2015 09:10	Tailgate Meeting		--	--	--	--	0.00
		Remarks: talked about spotting trucks						
3	Mar 05,2015 09:20	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: talked about site hazards and how to mitigate them						
4	Mar 05,2015 09:40	Rig In		--	--	--	--	0.00
		Remarks: rigged in our trucks and 3rd party water						
5	Mar 05,2015 10:05	Rig in Complete		--	--	--	--	0.00
		Remarks: gather up for safety meeting						
6	Mar 05,2015 10:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: talked about job scope and safety concerns						
7	Mar 05,2015 10:11	Sign-off on Safety		--	--	--	--	0.00
		Remarks: signed their and our JSA						
8	Mar 05,2015 10:30	Pressure Test Start	Water	2.00	600.0	--	5.00	5.00
		Remarks: filled lines for pressure test						
9	Mar 05,2015 10:34	Pressure Test	Water	0.00	2,500.0	--	0.00	5.00
		Remarks: pressured lines and they held						
10	Mar 05,2015 10:35	Pressure Test Complete		--	--	--	--	5.00
		Remarks: opened valve to pump job						
11	Mar 05,2015 10:36	Pump Preflush	Water	3.00	800.0	--	20.00	25.00
		Remarks: pumped SMS						
12	Mar 05,2015 10:42	Pump Spacer	Water	2.00	1,400.0	--	10.00	35.00
		Remarks: pumped water between SMS and Slurry						
13	Mar 05,2015 10:48	Mix Cement	0-1-0 G	2.00	700.0	--	47.10	82.10
		Remarks: mixed slurry at 15.8						
14	Mar 05,2015 11:06	Pump Displacement	Water	3.00	600.0	--	12.10	94.20
		Remarks: displaced leaving 3.5 bbls on top of retainer						
15	Mar 05,2015 11:11	Stop		--	--	--	--	94.20
		Remarks: stop held pressure till stung out of retainer						
16	Mar 05,2015 11:15	Wash	Water	2.00	150.0	--	20.00	114.20
		Remarks: wash mix side and did run backs						
17	Mar 05,2015 11:12	Rig Out		--	--	--	--	114.20
		Remarks: rigged out our trucks while washing up						
18	Mar 05,2015 11:50	Job Complete		--	--	--	--	114.20
		Remarks: do walk around trucks and check pins						
19	Mar 05,2015 12:00	Leave Location		--	--	--	--	114.20
		Remarks: leave location						



Treatment Reports & Remarks

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

57528

57529



Pumping Service Report

9203634

Client Name Anadarko Petroleum Corporation	Well Name Harmon 12 - 36	Rig BWS 12	Job Date March 06,2015	Call Sheet 1056321
Client Representative Mr. Socorro Olivas	Surface Well Location NW SW Sec 36:T4N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hansen, Kevin (27592)

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)
9.000	--	433.000	1,150.000	--	--

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)
8.625	24.000	J-55	1,370.0	2,950.0	27.58	8.097	9.625	0.0	433.0
4.500	11.600	J-55	4,960.0	5,350.0	1.55	4.000	5.000	1,150.0	1,250.0

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		--	--	--	--	0.000	1,250.000

Products

Plug 1

From Depth (ft): 240

To Depth (ft): 1250

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 450 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 106 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65

+ 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): 240

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22



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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	201025	PICKUP	1 Ton	03/06/2015 13:30	03/06/2015 16:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	03/06/2015 13:30	03/06/2015 16:00
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	03/06/2015 13:30	03/06/2015 16:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>			<u>Second Start Shift</u>	<u>Second End Shift</u>	
Hansen, Kevin (27592)	03/06/2015 13:30	03/06/2015 16:00					
Hansen, Ted (29055)	03/06/2015 13:30	03/06/2015 16:00					
Pyfer, Kevin (29802)	03/06/2015 13:30	03/06/2015 16:00					
Hilt, Brandon (30128)	03/06/2015 13:30	03/06/2015 16:00					



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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	Mar 06,2015 13:30	Arrive On Location		--	--	--	--	0.00
2	Mar 06,2015 13:40	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting trucks and filled out JSA						
3	Mar 06,2015 14:00	Rig in Complete		--	--	--	--	0.00
4	Mar 06,2015 14:05	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Discussed job and safety concerns with rig crew						
5	Mar 06,2015 14:17	Pressure Test Start	Water	2.00	100.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
6	Mar 06,2015 14:20	Pressure Test Complete		--	3,000.0	--	--	2.00
		Remarks: Pressure test good						
7	Mar 06,2015 14:21	Establish Circulation	Water	3.00	500.0	--	10.00	12.00
8	Mar 06,2015 14:25	Pump Preflush	Water	3.00	500.0	--	10.00	22.00
9	Mar 06,2015 14:29	Pump Spacer	Water	4.00	500.0	--	10.00	32.00
10	Mar 06,2015 14:32	Mix Cement	0:1:0 Type III	4.00	800.0	--	106.00	138.00
		Remarks: Pumped @ D-14.8						
11	Mar 06,2015 15:03	Displace Fluid	Water	3.00	800.0	--	2.00	140.00
12	Mar 06,2015 15:05	Wash		--	--	--	--	140.00
13	Mar 06,2015 15:34	Rig Out		--	--	--	--	140.00
14	Mar 06,2015 15:40	Job Complete		--	--	--	--	140.00
15	Mar 06,2015 15:50	Pre-Departure Meeting		--	--	--	--	140.00
		Remarks: Discussed journey management						
16	Mar 06,2015 16:00	Leave Location		--	--	--	--	140.00

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

57545

57546