



**Pumping
Service Report**

9198852

Client Name Anadarko Petroleum Corporation	Well Name Reynolds 2-23	Rig Basic 1549	Job Date October 16, 2014	Call Sheet 1048871
Client Representative Mr. Larry Webb	Surface Well Location NE NE Sec 23:T3N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	

Well Profile

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	109.88	4.000	5.000	0.0	7,070.0

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	27.330	1.995	2.910	0.000	7,070.000
2.375	4.700	J-55	8,100.000	17.590	1.995	2.910	0.000	4,550.000

Products

Plug 1

From Depth (ft): 6554

To Depth (ft): 7070

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 30 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 8 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 78
+ 0.5 % of CFR-2 (Preblend),
+ 0.25 % of FMC (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Plug 2

From Depth (ft): 3892

To Depth (ft): 4550

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 50 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 10.2 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 78
+ 0.5 % of CFR-2 (Preblend),
+ 0.2 % 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	--	--	--	--	Oct 08, 2014 14:34



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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>
201274	PICKUP	3/4 Ton				10/16/2014 11:45	10/16/2014 16:00
740004	BODY JOB	C & A				10/16/2014 11:45	10/16/2014 16:00
448047	TRAILER	Bulker	748047	TRACTOR	Tandem - Tractor	10/16/2014 11:45	10/16/2014 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>
Contreras, Bennie	10/16/2014 11:45	10/16/2014 16:00		
Barden, Sean	10/16/2014 11:45	10/16/2014 16:00		
Laeger, Kacey	10/16/2014 11:45	10/16/2014 16:00		

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 16, 2014 11:45	Arrive On Location Remarks: Arrived.	---	--	--	--	--	0.00
2	Oct 16, 2014 11:55	Tailgate Meeting Remarks: Talked about spotting trucks and rigging in.	---	--	--	--	--	0.00
3	Oct 16, 2014 12:05	Rig In Remarks: Rigged in hoses and iron.	---	--	--	--	--	0.00
4	Oct 16, 2014 12:15	STEACS Briefing Remarks: Muster, Nearest Med., 911 Caller, Amb. and driver, Location safety equipt., Job scope.	---	--	--	--	--	0.00
5	Oct 16, 2014 13:00	Sign-off on Safety Remarks: Sign all JSAs.	---	--	--	--	--	0.00
6	Oct 16, 2014 13:18	Pressure Test Remarks: Pressure test 2500 psi.	Water	--	2,500.0	--	--	0.00
7	Oct 16, 2014 13:19	Establish Circulation Remarks: Establish circ..	Water	2.00	600.0	--	2.00	2.00
8	Oct 16, 2014 13:20	Mix Cement Remarks: Mix and pump 8 BBLs of cement @ 15.8 lb/gal..	Thermal 35	2.30	600.0	--	8.00	10.00
9	Oct 16, 2014 13:24	Displace Fluid Remarks: Displace 24.5 BBLs of water.	Water	2.30	500.0	--	24.50	34.50
10	Oct 16, 2014 13:33	Stop Remarks: Stop and rig off well.	---	--	0.0	--	--	34.50
11	Oct 16, 2014 14:29	Pressure Test Remarks: Pressure test 3000 psi.	Water	--	3,000.0	--	--	34.50
12	Oct 16, 2014 14:32	Establish Circulation Remarks: Establish circ.	Water	2.30	450.0	--	7.00	41.50
13	Oct 16, 2014 14:34	Mix Cement Remarks: Mix and pump 10 BBLs of cement @ 15.8	0-1-0 G	2.00	300.0	--	10.20	51.70
14	Oct 16, 2014 14:38	Displace Fluid Remarks: Displace 14 BBLs of water.	Water	2.30	50.0	--	14.00	65.70
15	Oct 16, 2014 14:43	Stop Remarks: Stop and rig off well.	---	--	0.0	--	--	65.70
16	Oct 16, 2014 14:44	Wash Remarks: Wash mix system and runback on triplex.	Water	2.00	170.0	--	15.00	80.70
17	Oct 16, 2014 15:00	Rig Out Remarks: Rig down iron.	---	--	--	--	--	80.70
18	Oct 16, 2014 15:20	Job Complete Remarks: Job complete.	---	--	--	--	--	80.70
19	Oct 16, 2014 15:21	Pre-Departure Meeting Remarks: Journey management.	---	--	--	--	--	80.70
20	Oct 16, 2014 16:00	Leave Location Remarks: Leave.	---	--	--	--	--	80.70



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Client Name Anadarko Petroleum Corporation	Well Name Reynolds 2-23	Rig Basic 1549	Job Date October 17, 2014	Call Sheet 1048934
Client Representative Mr. Larry Webb	Surface Well Location NE NE Sec 23:T3N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	

Well Profile

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	--	725.000	830.000	--	--

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	J-55	4,960.0	5,350.0	95.90	4.000	5.000	830.0	7,000.0

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	3.600	1.995	2.910	0.000	930.000

Products

Plug 1

From Depth (ft): 243

To Depth (ft): 930

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 110 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 26 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 77
+ 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: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 08, 2014 14:34



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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>
201274	PICKUP	3/4 Ton				10/17/2014 10:30	10/17/2014 13:30
740004	BODY JOB	C & A				10/17/2014 10:30	10/17/2014 13:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	10/17/2014 10:30	10/17/2014 13:30
201253	PICKUP	1/2 Ton				10/17/2014 10:30	10/17/2014 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>
Contreras, Bennie	10/17/2014 10:30	10/17/2014 13:30		
Barden, Sean	10/17/2014 10:30	10/17/2014 13:30		
Faircloth, Branden	10/17/2014 10:30	10/17/2014 13:30		
Laeger, Kacey	10/17/2014 10:30	10/17/2014 13:30		
Hardwick, Waco	10/17/2014 10:30	10/17/2014 13:30		

Treatment Reports & Remarks



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Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Oct 17, 2014 10:30	Arrive On Location Remarks: Arrived.	---	--	--	--	--	0.00
2	Oct 17, 2014 10:40	Tailgate Meeting Remarks: Talked about spotting trucks and rigging in.	---	--	--	--	--	0.00
3	Oct 17, 2014 10:50	Rig In Remarks: Rigged in hoses and iron.	---	--	--	--	--	0.00
4	Oct 17, 2014 11:00	STEACS Briefing Remarks: Muster, Nearest med., Amb. and driver, 911 Caller, Location safety equipt., Job scope.	---	--	--	--	--	0.00
5	Oct 17, 2014 11:40	Sign-off on Safety Remarks: Sign all JSAs.	---	--	--	--	--	0.00
6	Oct 17, 2014 11:48	Pressure Test Remarks: Pressure test 3000 psi.	Water	--	3,000.0	--	--	0.00
7	Oct 17, 2014 11:49	Pump Remarks: 10 BBLs of water	Water	2.30	100.0	--	10.00	10.00
8	Oct 17, 2014 11:58	Pump Preflush Remarks: 10 BBLs of SAPP.	Water	2.30	100.0	--	10.00	20.00
9	Oct 17, 2014 12:04	Mix Cement Remarks: Mix and pump cement @ 14.8 lb/gal..	0:1:0 Type III	2.30	100.0	--	26.00	46.00
10	Oct 17, 2014 12:14	Displace Fluid Remarks: Displace 2 BBLs of water.	Water	2.30	150.0	--	2.00	48.00
11	Oct 17, 2014 12:15	Stop Remarks: Stop and rigg off well.	---	--	0.0	--	--	48.00
12	Oct 17, 2014 12:20	Wash Remarks: Wash mix system and runback on triplex.	Water	2.00	170.0	--	15.00	63.00
13	Oct 17, 2014 12:45	Rig Out Remarks: Rig out.	---	--	--	--	--	63.00
14	Oct 17, 2014 13:00	Job Complete Remarks: Job complete.	---	--	--	--	--	63.00
15	Oct 17, 2014 13:10	Pre-Departure Meeting Remarks: Journey management.	---	--	--	--	--	63.00
16	Oct 17, 2014 13:30	Leave Location Remarks: Leave.	---	--	--	--	--	63.00

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