



**Pumping
Service Report**

9200712

Client Name Anadarko Petroleum Corporation	Well Name Radermacher 14 - 30	Rig ECWS 7	Job Date November 19, 2014	Call Sheet 1050678
Client Representative Mr. Dave Donoho	Surface Well Location SW SW Sec 30:T3N:R67W	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)
0.000	7.700	---	--	--	--	--	--	0.0	6,975.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.063	7.700	---	--	--	--	--	0.000	6,975.000

Products

Plug 1

From Depth (ft): 6975
To Depth (ft): 6395
Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 20 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 5.3 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 0.5 % of CFR-2 (Preblend),
+ 0.25 % of FMC (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Plug 2

From Depth (ft):
To Depth (ft):
Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 50 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 10.24 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6395

Wellbore Fluid

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



**Pumping
Service Report**

9200712

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>
201173	PICKUP	1 Ton	449087	TRAILER	Utility Trailer	11/19/2014 11:30	11/19/2014 14:00
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	11/19/2014 11:30	11/19/2014 14:00
446172	TRAILER	Bulker	746172	TRACTOR	Tandem - Tractor	11/19/2014 11:30	11/19/2014 14:00

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	11/19/2014 11:30	11/19/2014 14:01		
Schneider, Patrick	11/19/2014 11:30	11/19/2014 14:11		
Pigg, Martin	11/19/2014 11:30	11/19/2014 14:01		
Crane, Troy	11/19/2014 11:30	11/19/2014 14:01		
Lindsay, Kevin	11/19/2014 11:30	11/19/2014 14:01		

Treatment Reports & Remarks



**Pumping
Service Report**

9200712

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	Nov 19, 2014 11:30	Arrive On Location	---	--	--	--	--	0.00
2	Nov 19, 2014 11:35	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Discussed spotting of trucks and filled out JSA						
3	Nov 19, 2014 11:45	Rig In	---	--	--	--	--	0.00
4	Nov 19, 2014 12:55	STEACS Briefing	---	--	--	--	--	0.00
		Remarks: Discussed job and safety concerns						
5	Nov 19, 2014 13:00	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: Signed our JSA and the rigs JSA						
6	Nov 19, 2014 13:10	Start - Fluid	Water	1.25	200.0	--	1.00	1.00
		Remarks: Filled lines for pressure test						
7	Nov 19, 2014 13:13	Pressure Test	---	--	2,500.0	--	--	1.00
8	Nov 19, 2014 13:15	Establish Circulation	Water	1.50	300.0	--	5.00	6.00
9	Nov 19, 2014 13:20	Mix Cement	Thermal 35	1.50	300.0	--	5.30	11.30
		Remarks: D-15.8						
10	Nov 19, 2014 13:25	Pump Displacement	Water	2.00	600.0	--	18.50	29.80
11	Nov 19, 2014 13:45	Balance Plug	---	--	0.0	--	--	29.80
12	Nov 19, 2014 14:25	Start - Fluid	Water	2.00	200.0	--	1.00	1.00
		Remarks: filled lines for pressure test						
13	Nov 19, 2014 14:30	Pressure Test	---	--	2,500.0	--	--	1.00
14	Nov 19, 2014 14:31	Establish Circulation	Water	2.00	200.0	--	5.00	6.00
15	Nov 19, 2014 14:39	Mix Cement	0-1-0 G	1.50	300.0	--	10.24	16.24
		Remarks: D-15.8						
16	Nov 19, 2014 14:45	Pump Displacement	Water	2.00	100.0	--	12.40	28.64
17	Nov 19, 2014 14:55	Balance Plug	---	--	0.0	--	--	28.64
18	Nov 19, 2014 15:00	Stop	---	--	--	--	--	28.64
19	Nov 19, 2014 15:10	Wash	---	--	--	--	--	28.64
20	Nov 19, 2014 15:30	Rig Out	---	--	--	--	--	28.64
21	Nov 19, 2014 15:45	Job Complete	---	--	--	--	--	28.64
22	Nov 19, 2014 15:55	Pre-Departure Meeting	---	--	--	--	--	28.64
		Remarks: Discussed journey management for trip back to Sanjel yard						
23	Nov 19, 2014 15:55	Leave Location	---	--	--	--	--	28.64
		Remarks: Headed to 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



**Pumping
Service Report**

9200726

Client Name Anadarko Petroleum Corporation	Well Name Radermacher 14 - 30	Rig ECWS 7	Job Date November 20, 2014	Call Sheet 1050775
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 30:T3N:R67W	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):	--- @ --

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)
3.500	7.700	---	--	--	--	--	--	0.0	5,000.0

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.063	0.000	---	--	--	--	--	0.000	4,012.000

Products

Plug 1

From Depth (ft): 4012
To Depth (ft): 3600
Plug Type : Abandonment
Acids/Blends/Fluids :

Tail: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 6.3 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3600

Wellbore Fluid

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



**Pumping
Service Report**

9200726

Units & Personnel

Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200910	PICKUP	1/2 Ton				11/20/2014 13:30	11/20/2014 17:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	11/20/2014 13:30	11/20/2014 17:00
746508	BODY JOB	Baby Bulker				11/20/2014 13:30	11/20/2014 17:00
201274	PICKUP	3/4 Ton				11/20/2014 13:30	11/20/2014 17:00
201031	PICKUP	1/2 Ton				11/20/2014 13:30	11/20/2014 17:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Spirek, Matthew	11/20/2014 13:30	11/20/2014 17:00		
Pigg, Martin	11/20/2014 13:30	11/20/2014 17:00		
Phillips, James	11/20/2014 13:30	11/20/2014 17:00		
Maguire, Matthew	11/20/2014 13:30	11/20/2014 17:00		
Morris, Theodore	11/20/2014 13:30	11/20/2014 17:00		
Hardwick, Waco	11/20/2014 13:30	11/20/2014 17:00		

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	Nov 20, 2014 13:30	Arrive On Location	---	--	--	--	--	0.00
2	Nov 20, 2014 13:50	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 20, 2014 13:55	STEACS Briefing	---	--	--	--	--	0.00
4	Nov 20, 2014 14:30	Rig In	---	--	--	--	--	0.00
5	Nov 20, 2014 14:40	Safety Meeting	---	--	--	--	--	0.00
6	Nov 20, 2014 14:40	Sign-off on Safety	---	--	--	--	--	0.00
7	Nov 20, 2014 15:53	Pressure Test	---	1.00	4,000.0	--	1.00	0.00
8	Nov 20, 2014 15:55	Pump Preflush	Water	2.00	500.0	--	15.00	15.00
9	Nov 20, 2014 16:07	Pump	0-1-0 G	2.00	200.0	--	6.30	21.30
10	Nov 20, 2014 16:12	Pump Displacement	Water	2.00	100.0	--	9.70	31.00
11	Nov 20, 2014 16:20	Rig Out	---	--	--	--	--	31.00
12	Nov 20, 2014 16:45	Pre-Departure Meeting	---	--	--	--	--	31.00
13	Nov 20, 2014 16:55	Leave Location	---	--	--	--	--	31.00
14	Nov 20, 2014 16:55	Job Complete	---	--	--	--	--	31.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Water

Volume (bbl) : 30

Temperature (°F) : 70

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



**Pumping
Service Report**

9201132

Client Name Anadarko Petroleum Corporation	Well Name Rademacher 14 - 30	Rig ECWS 7	Job Date November 21, 2014	Call Sheet 1050826
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 30:T3N:R67W	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)
	9.500	--	729.000	930.000	--	--

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	23.000	---	--	--	--	--	--	0.0	729.0
	3.500	7.700	---	--	--	--	--	--	932.0	1,030.0

Tubing	Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	2.063	2.500	---	--	--	--	--	0.000	1,030.000

Products

Plug 1

From Depth (ft): 1030

To Depth (ft): 120

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 200 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 47 (bbl)
Water Temperature(°F) = 35 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 67
+ 0.25 lb/sack of Polyflake (Preblend),
+ 0.5 % of CaCl₂ (Preblend),
+ 0.3 % of CFR-2 (Preblend),
+ 0.3 % of CFL-3 (Preblend),
+ 0.4 % of CDF-4P (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

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



**Pumping
Service Report**

9201132

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>
201168	PICKUP	1 Ton				11/21/2014 13:00	11/21/2014 15:00
740004	BODY JOB	C & A				11/21/2014 13:00	11/21/2014 15:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	11/21/2014 13:00	11/21/2014 15:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Ripka, Robert	11/21/2014 13:00	11/21/2014 15:00		
Barden, Sean	11/21/2014 13:00	11/21/2014 15:00		
Phillips, James	11/21/2014 13:00	11/21/2014 15:00		

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	Nov 21, 2014 13:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 21, 2014 13:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 21, 2014 13:16	Rig In	---	--	--	--	--	0.00
4	Nov 21, 2014 13:30	STEACS Briefing	---	--	--	--	--	0.00
5	Nov 21, 2014 13:40	Sign-off on Safety	---	--	--	--	--	0.00
6	Nov 21, 2014 13:42	Pressure Test	---	--	1,600.0	--	--	0.00
7	Nov 21, 2014 13:44	Pump Preflush	Water	3.20	400.0	--	20.00	20.00
		Remarks: + SAPP						
8	Nov 21, 2014 13:52	Pump Spacer	Water	3.30	400.0	--	5.00	25.00
9	Nov 21, 2014 13:55	Mix Cement	0:1:0 Type III	3.00	500.0	--	47.00	72.00
		Remarks: 200 SKS						
10	Nov 21, 2014 14:06	Displace Fluid	Water	1.00	500.0	--	1.50	73.50
11	Nov 21, 2014 14:08	Stop	---	--	--	--	--	73.50
12	Nov 21, 2014 14:15	Rig Out	---	--	--	--	--	73.50
13	Nov 21, 2014 14:45	Job Complete	---	--	--	--	--	73.50
14	Nov 21, 2014 14:47	Pre-Departure Meeting	---	--	--	--	--	73.50
15	Nov 21, 2014 15:00	Leave Location	---	--	--	--	--	73.50

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Water

Volume (bbl) : 70

Temperature (°F) : 67

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes