



**Pumping
Service Report**

9200682

Client Name Anadarko Petroleum Corporation	Well Name Rademacher 13-30	Rig ECWS 7	Job Date November 12, 2014	Call Sheet 1050308
Client Representative Mr. Dave Donoho	Surface Well Location SW SW Sec 30:T3N:R67W	Down Hole Well Location	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)
3.500	0.000	---	--	--	--	--	--	0.0	6,910.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.063	0.000	---	--	--	--	--	0.000	6,910.000

Products

Plug 1

From Depth (ft): 6363

To Depth (ft): 6910

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 20 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 5 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 12 , Slurry Temperature(°F) = 56

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend)

Plug 2

From Depth (ft): 3856

To Depth (ft): 4950

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 50 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 10 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 12 , Slurry Temperature(°F) = 57

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3856

Wellbore Fluid

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



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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>
449087	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	11/12/2014 08:00	11/12/2014 12:30
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	11/12/2014 08:00	11/12/2014 12:30
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	11/12/2014 08:00	11/12/2014 12:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Laeger, Kacey	11/12/2014 08:00	11/12/2014 12:30		
Joyner, Barlen	11/12/2014 08:00	11/12/2014 12:30		
Svoboda, Miloslav	11/12/2014 08:00	11/12/2014 12:30		
Lindsay, Kevin	11/12/2014 08:00	11/12/2014 12:30		
Houghton, Guy	11/12/2014 08:00	11/12/2014 12:30		
Faircloth, Branden	11/12/2014 08:00	11/12/2014 12:30		

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	Nov 12, 2014 08:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 12, 2014 08:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 12, 2014 08:10	STEACS Briefing	---	--	--	--	--	0.00
4	Nov 12, 2014 08:25	Rig In	---	--	--	--	--	0.00
5	Nov 12, 2014 09:20	Safety Meeting	---	--	--	--	--	0.00
6	Nov 12, 2014 09:30	Sign-off on Safety	---	--	--	--	--	0.00
7	Nov 12, 2014 09:32	Start - Fluid	Water	1.00	300.0	--	1.00	1.00
		Remarks: Filled lines						
8	Nov 12, 2014 09:33	Pressure Test	Water	--	--	--	--	1.00
		Remarks: 3000						
9	Nov 12, 2014 09:35	Establish Circulation	Water	1.00	100.0	--	2.00	3.00
		Remarks: Good circulation						
10	Nov 12, 2014 09:37	Mix Cement	Thermal 35	2.00	100.0	--	5.00	8.00
		Remarks: 20sks of thermal 35 at 15.8 lb/gal						
11	Nov 12, 2014 09:41	Displace Fluid	Water	2.00	500.0	--	18.00	26.00
		Remarks: Dispalce to balance						
12	Nov 12, 2014 09:49	Balance Plug	---	--	--	--	--	26.00
13	Nov 12, 2014 09:50	Wash	---	--	--	--	--	26.00
14	Nov 12, 2014 10:15	Wait On Instructions	---	--	--	--	--	0.00
		Remarks: Wait rig						
15	Nov 12, 2014 11:06	Establish Circulation	Water	2.00	500.0	--	10.00	10.00
		Remarks: Good circulation						
16	Nov 12, 2014 11:13	Mix Cement	0-1-0 G	2.00	550.0	--	10.00	20.00
		Remarks: 50sks of 0-1-0 G at 15.8 lb/gal						
17	Nov 12, 2014 11:17	Displace Fluid	Water	2.00	367.0	--	11.00	31.00
		Remarks: Displace to balance						
18	Nov 12, 2014 11:26	Balance Plug	---	--	0.0	--	--	31.00
19	Nov 12, 2014 11:30	Wash	Water	--	--	--	15.00	0.00
		Remarks: Wash pump unit						
20	Nov 12, 2014 12:00	Rig Out	---	--	--	--	--	0.00
21	Nov 12, 2014 12:15	Job Complete	---	--	--	--	--	0.00
22	Nov 12, 2014 12:15	Pre-Departure Meeting	---	--	--	--	--	0.00
23	Nov 12, 2014 12:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Not Applicable
Fluid Returns : Yes
Type : Water
Volume (bbl) : 30
Temperature (°F) : 71
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes



**Pumping
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9201202

Client Name Anadarko Petroleum Corporation	Well Name Radermecher 13 - 30	Rig ECWS 7	Job Date November 14, 2014	Call Sheet 1050357
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):	--- @ --

Open Hole	Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
	10.000	--	--	--	--	--

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	0.000	---	--	--	--	--	--	0.0	730.0

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	3.250	J-55	7,690.000	2.980	1.751	2.325	0.000	1,000.000

Products

Plug 1

From Depth (ft): 500

To Depth (ft): 1000

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 180 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 43 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 55

+ 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: Depth (ft): 500

Wellbore Fluid

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



**Pumping
Service Report**

9201202

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	201025	PICKUP	1 Ton	11/14/2014 08:00	11/14/2014 12:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	11/14/2014 08:00	11/14/2014 12:00
746502	BODY JOB	Baby Bulker				11/14/2014 08:00	11/14/2014 12:00

Crew and Bonuses				
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Prigmore, Dominic	11/14/2014 08:00	11/14/2014 12:00		
Cheal, Samuel	11/14/2014 08:00	11/14/2014 12:00		
Peterson, Ryan	11/14/2014 08:00	11/14/2014 12:00		
Vitera, John	11/14/2014 08:00	11/14/2014 12:00		
Schroeder, Stephen	11/14/2014 08:00	11/14/2014 12:00		

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 14, 2014 08:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 14, 2014 08:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 14, 2014 08:10	STEACS Briefing	---	--	--	--	--	0.00
4	Nov 14, 2014 08:15	Rig In	---	--	--	--	--	0.00
5	Nov 14, 2014 09:15	Safety Meeting	---	--	--	--	--	0.00
6	Nov 14, 2014 09:20	Sign-off on Safety	---	--	--	--	--	0.00
7	Nov 14, 2014 09:25	Start - Fluid	Water	1.00	40.0	--	1.00	0.00
		Remarks: filled lines and identified a leak on bottom of casing, rig crew tightened bolts and stopped leak.						
8	Nov 14, 2014 09:58	Pressure Test	Water	--	2,500.0	--	--	0.00
9	Nov 14, 2014 10:00	Establish Circulation	Water	1.70	100.0	--	10.00	0.00
		Remarks: Broke circulation and pumped pre-flush of sapp @ 10 bbls.						
10	Nov 14, 2014 10:08	Pump	0:1:0 Type III	2.00	110.0	--	43.00	0.00
		Remarks: 43 bbls. @ 14.8 density.						
11	Nov 14, 2014 10:32	Displace Fluid	Water	2.00	250.0	--	1.50	0.00
		Remarks: Displaced to balance.						
12	Nov 14, 2014 10:35	Stop	---	--	--	--	--	0.00
13	Nov 14, 2014 10:40	Wash	Water	1.00	22.0	--	15.00	0.00
14	Nov 14, 2014 11:20	Rig Out	---	--	--	--	--	0.00
15	Nov 14, 2014 11:45	Pre-Departure Meeting	---	--	--	--	--	0.00
16	Nov 14, 2014 12:00	Job Complete	---	--	--	--	--	0.00
17	Nov 14, 2014 12:05	Leave Location	---	--	--	--	--	0.00