



**Pumping  
Service Report**

**9200855**

Client Name Anadarko Petroleum Corporation	Well Name Ptsnik 1-35	Rig Ecws 22	Job Date October 22, 2014	Call Sheet 1049220
Client Representative Mr. Bill Smith	Surface Well Location NE NE Sec 35:T4N:R67W	Down Hole Well Location	Job Type Bradenhead Squeeze	

**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)
	8.000	--	0.000	4,840.000	--	--

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	---	--	--	--	--	--	0.0	7,364.0

Tubing	Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	1.250	2.300	---	--	--	--	--	0.000	4,840.000

**Products**

**Stage 1**

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Plug: 275 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 57 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70

+ 0.3 % of CFR (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.3 % of ASA-3 (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 13, 2014 19:12



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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>
201025	PICKUP	1 Ton				10/22/2014 12:00	10/22/2014 16:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	10/22/2014 12:00	10/22/2014 16:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	10/22/2014 13:00	10/22/2014 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>
Lopez, Armando	10/22/2014 12:00	10/22/2014 16:00		
Leue, David	10/22/2014 12:00	10/22/2014 16:00		
Teegerstrom, Ty	10/22/2014 13:00	10/22/2014 16:00		
Houghton, Guy	10/22/2014 13:00	10/22/2014 16:00		

**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	Oct 22, 2014 12:00	Arrive On Location	---	--	--	--	--	0.00
2	Oct 22, 2014 12:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 22, 2014 12:15	Rig In	---	--	--	--	--	0.00
4	Oct 22, 2014 13:10	STEACS Briefing	---	--	--	--	--	0.00
5	Oct 22, 2014 13:40	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 22, 2014 13:45	Start - Fluid	Water	2.00	400.0	--	1.00	1.00
		Remarks: Fill lines						
7	Oct 22, 2014 13:46	Pressure Test	---	--	2,500.0	--	--	1.00
8	Oct 22, 2014 13:48	Pump Spacer	Water	2.00	1,700.0	--	5.00	6.00
9	Oct 22, 2014 13:50	Pump Spacer	Water	2.00	1,700.0	--	10.00	16.00
		Remarks: SMS						
10	Oct 22, 2014 13:55	Pump Spacer	Water	1.00	500.0	--	5.00	21.00
11	Oct 22, 2014 13:58	Mix Cement	0-1-0 G	1.70	2,000.0	--	57.00	78.00
		Remarks: Pump 275 sks of 0:1:0 G cement Density 15.8 Yield 1.15 Water 4.93						
12	Oct 22, 2014 14:37	Displace Fluid	---	1.70	2,000.0	--	6.00	84.00
13	Oct 22, 2014 14:40	Stop	---	--	--	--	--	0.00
14	Oct 22, 2014 14:45	Wash	---	--	--	--	--	84.00
15	Oct 22, 2014 15:15	Rig Out	---	--	--	--	--	84.00
16	Oct 22, 2014 15:45	Job Complete	---	--	--	--	--	84.00
17	Oct 22, 2014 15:50	Pre-Departure Meeting	---	--	--	--	--	84.00
18	Oct 22, 2014 16:00	Leave Location	---	--	--	--	--	84.00





**Pumping  
Service Report**

**9198773**

Client Name Anadarko Petroleum Corporation	Well Name Ptsnik 1-35	Rig Ecws 22	Job Date October 23,2014	Call Sheet 1049281
Client Representative Mr. Bill Smith	Surface Well Location Sec 35:T4N:R67W	Down Hole Well Location	Job Type Bradenhead Squeeze	

**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)
	8.000	--	779.000	1,500.000	--	--

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	779.0

Tubing	Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	1.315	2.300	---	--	--	--	--	0.000	1,500.000

**Products**

**Stage 1**

From Depth (ft): 761

To Depth (ft): 1500

Acids/Blends/Fluids :

Tail: 185 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 46 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60  
+ 0.25 lb/sack of Polyflake (Preblend),  
+ 0.5 % of CaCl<sub>2</sub> (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): 761

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 13, 2014 19:12



# Pumping Service Report

9198773

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				10/23/2014 09:00	10/23/2014 12:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	10/23/2014 09:00	10/23/2014 12:00
446084	TRAILER	Bulker	746084	TRACTOR	Tandem - Tractor	10/23/2014 09:00	10/23/2014 12:00
Crew and Bonuses							
Employee	Start Shift	End Shift			Second Start Shift	Second End Shift	
Price, Ryan	10/23/2014 09:00	10/23/2014 12:00					
Young, Craig	10/23/2014 09:00	10/23/2014 12:00					
Hansen, Ted	10/23/2014 09:00	10/23/2014 12:00					

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	Oct 23, 2014 09:00	Arrive On Location	---	--	--	--	--	0.00
2	Oct 23, 2014 09:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 23, 2014 09:15	Rig In	---	--	--	--	--	0.00
4	Oct 23, 2014 09:45	Safety Meeting	---	--	--	--	--	0.00
5	Oct 23, 2014 09:55	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 23, 2014 10:02	Pump	Water	2.00	500.0	--	1.00	0.00
		Remarks: filled lines for pressure test						
7	Oct 23, 2014 10:03	Pressure Test	---	--	2,900.0	--	--	0.00
8	Oct 23, 2014 10:06	Establish Circulation	Water	2.00	500.0	--	5.00	0.00
9	Oct 23, 2014 10:08	Pump Preflush	Water	2.00	500.0	--	20.00	0.00
		Remarks: pumped SMS						
10	Oct 23, 2014 10:18	Pump Spacer	Water	1.00	200.0	--	5.00	0.00
11	Oct 23, 2014 10:23	Mix Cement	0:1:0 Type III	2.00	1,000.0	--	46.00	0.00
12	Oct 23, 2014 10:46	Pump Displacement	Water	2.00	1,000.0	--	1.00	0.00
13	Oct 23, 2014 10:48	Stop	---	--	--	--	--	0.00
14	Oct 23, 2014 11:00	Wash	---	--	--	--	--	0.00
15	Oct 23, 2014 11:30	Rig Out	---	--	--	--	--	0.00
16	Oct 23, 2014 11:45	Job Complete	---	--	--	--	--	0.00
17	Oct 23, 2014 11:50	STEACS Briefing	---	--	--	--	--	0.00
18	Oct 23, 2014 11:55	Pre-Departure Meeting	---	--	--	--	--	0.00
19	Oct 23, 2014 12:00	Leave Location	---	--	--	--	--	0.00