



**Pumping
Service Report**

9198115

Client Name Anadarko Petroleum Corporation	Well Name HSR Weld 3-2A	Rig Leed 716	Job Date October 02, 2014	Call Sheet 1048058
Client Representative Mr. Ryan Thompson	Surface Well Location NE NW Sec 2:T2N:R68W	Down Hole Well Location	Job Type Bradenhead Squeeze	

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	--	--	--	--	--

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	4,690.0

Tubing	Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	1.660	2.300	---	--	--	--	--	0.000	4,690.000

Products

Treatment Interval 1

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Tail: 303 Sacks of 1:1:0 G, Density = 14.6 lb/gal, Volume Pumped = 60 (bbl)

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

- + 0.6 % of CFL-2 (Preblend),
- + 0.5 % of CFR (Preblend),
- + 0.3 % of LTR (Preblend),
- + 0.6 % of SMS (Preblend),
- + 0.2 % of SPC-2 (Preblend),
- + 0.25 % 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 01, 2014 19:09



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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>
201017	PICKUP	1 Ton				10/02/2014 11:00	10/02/2014 17:00
740067	BODY JOB	C & A				10/02/2014 11:00	10/02/2014 17:00
740089	BODY JOB	SCM Single				10/02/2014 11:00	10/02/2014 17:00

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				
Johnson, Quintin				
Davila, Israel				

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 02, 2014 11:00	Arrive On Location	---	--	--	--	--	0.00
2	Oct 02, 2014 11:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 02, 2014 11:10	Rig In	---	--	--	--	--	0.00
4	Oct 02, 2014 13:15	Safety Meeting	---	--	--	--	--	0.00
5	Oct 02, 2014 13:40	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 02, 2014 13:48	Start - Fluid	Water	1.00	600.0	--	1.00	1.00
Remarks: Fill lines								
7	Oct 02, 2014 13:49	Pressure Test	---	--	3,000.0	--	--	1.00
8	Oct 02, 2014 13:51	Pump Spacer	Water	1.20	800.0	--	5.00	6.00
9	Oct 02, 2014 13:53	Pump Spacer	Water	1.30	800.0	--	20.00	26.00
Remarks: SMS								
10	Oct 02, 2014 14:10	Pump Spacer	Water	1.30	850.0	--	5.00	31.00
11	Oct 02, 2014 14:14	Mix Cement	1:1:0 G	1.30	950.0	--	60.00	91.00
Remarks: Pumped 303 sks of 1-0-1 G density 14.6 Yield 1.12 water 4.61								
12	Oct 02, 2014 15:07	Displace Fluid	Water	1.30	800.0	--	6.00	97.00
13	Oct 02, 2014 15:12	Wash	---	--	--	--	--	0.00
Remarks: Wash up pump								
14	Oct 02, 2014 16:00	Rig Out	---	--	--	--	--	0.00
15	Oct 02, 2014 16:30	Job Complete	---	--	--	--	--	0.00
16	Oct 02, 2014 16:45	Pre-Departure Meeting	---	--	--	--	--	0.00
17	Oct 02, 2014 17:00	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Not Applicable
Fluid Returns : Yes
Type : Spacer
Volume (bbl) : 100
Temperature (°F) : 70
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes



Pumping
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9199255

Client Name Anadarko Petroleum Corporation	Well Name HSR Weld 3-2A	Rig Leed 716	Job Date October 03, 2014	Call Sheet 1048152
Client Representative Mr. Ryan Thompson	Surface Well Location NW NW Sec 2:T2N:R68W	Down Hole Well Location	Job Type Bradenhead Squeeze	

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	--	0.000	1,540.000	--	--

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)
8.625	24.000	J-55	1,370.0	2,950.0	43.69	8.097	9.625	0.0	686.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
1.050	0.000	J-55	--	--	--	--	0.000	1,540.000

Products

Treatment Interval 1

From Depth (ft): 586

To Depth (ft): 1540

Acids/Blends/Fluids:

Tail: 330 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 78 (bbl)

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

- + 0.3 % of CFL-3 (Preblend),
- + 0.3 % of CFR-2 (Preblend),
- + 0.5 % of CaCl₂ (Preblend),
- + 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 586

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 01, 2014 19:09



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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
201274	PICKUP	3/4 Ton				10/03/2014 13:30	10/03/2014 17:00
740004	BODY JOB	C & A				10/03/2014 13:30	10/03/2014 17:00
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	10/03/2014 13:30	10/03/2014 17:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Maguire, Matthew	10/03/2014 13:30	10/03/2014 17:00		
Laeger, Kacey	10/03/2014 13:30	10/03/2014 17:00		
Cheal, Samuel	10/03/2014 13:30	10/03/2014 17:00		
Phillips, James	10/03/2014 13:30	10/03/2014 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	Oct 03, 2014 13:30	Arrive On Location	---	--	--	--	--	0.00
2	Oct 03, 2014 13:40	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 03, 2014 13:50	Rig In	---	--	--	--	--	0.00
4	Oct 03, 2014 14:55	Safety Meeting	---	--	--	--	--	0.00
5	Oct 03, 2014 15:00	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 03, 2014 15:05	Start - Fluid	Water	1.00	500.0	--	1.00	1.00
		Remarks: Fill Lines						
7	Oct 03, 2014 15:06	Pressure Test	Water	--	--	--	--	1.00
		Remarks: 2000 Lines held						
8	Oct 03, 2014 15:08	Establish Circulation	Water	2.00	700.0	--	10.00	11.00
		Remarks: Good circulation						
9	Oct 03, 2014 15:13	Mix Cement	0:1:0 Type III	1.50	600.0	--	78.00	89.00
		Remarks: 330sks at 14.8 lb/gal						
10	Oct 03, 2014 15:58	Displace Fluid	Water	1.50	400.0	--	1.00	90.00
11	Oct 03, 2014 15:59	Stop	---	--	--	--	--	90.00
12	Oct 03, 2014 16:05	Wash	---	--	--	--	15.00	90.00
13	Oct 03, 2014 16:20	Rig Out	---	--	--	--	--	90.00
14	Oct 03, 2014 16:40	Job Complete	---	--	--	--	--	90.00
15	Oct 03, 2014 16:50	Pre-Departure Meeting	---	--	--	--	--	90.00
16	Oct 03, 2014 17:00	Leave Location	---	--	--	--	--	90.00