



Pumping Service Report

9206045

Client Name Anadarko Petroleum Corporation	Well Name Fort St. Vrain	Rig Concord Well Servicing 5	Job Date June 23,2015	Call Sheet 1058589
Client Representative Mr. Luis Morales	Surface Well Location SW SW Sec 9:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Contreras, Bennie (23469)

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)
10.000	--	512.000	4,260.000	--	--

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	32.61	8.097	9.625	0.0	512.0
4.500	11.600	J-55	4,960.0	5,350.0	66.21	4.000	5.000	0.0	4,260.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.375	4.700	J-55	8,100.000	26.310	1.995	2.910	0.000	6,805.000
2.375	4.700	J-55	8,100.000	14.520	1.995	2.910	0.000	3,756.000

Products

Plug 1

From Depth (ft): 6373

To Depth (ft): 6805

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 25 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 6.7 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of ASM-3 (Preblend)

Plug 2

From Depth (ft): 3562

To Depth (ft): 4260

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 310 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 63.5 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)



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Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	--	--	--	Jun 02, 2015 09:59

Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Bridge Plug	6,810.000	Third Party
Cement Retainer	3,756.000	Third Party

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>
201273	PICKUP	3/4 Ton				06/23/2015 06:30	06/23/2015 14:00
740018-1	BODY JOB	C & A				06/23/2015 06:30	06/23/2015 14:00
446092	TRAILER	Bulker	746092	TRACTOR	Tandem - Tractor	06/23/2015 06:30	06/23/2015 14:00
200918	PICKUP	3/4 Ton				06/23/2015 06:30	06/23/2015 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>
Contreras, Bennie (23469)	06/23/2015 06:30	06/23/2015 14:00		
Cheal, Samuel (28315)	06/23/2015 06:30	06/23/2015 14:00		
Leon, Justin (30152)	06/23/2015 06:30	06/23/2015 14:00		
Spirek, Matthew (26921)	06/23/2015 06:30	06/23/2015 14:00		

Treatment Reports & Remarks

**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	Jun 23,2015 06:30	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived.						
2	Jun 23,2015 06:40	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: STEACS						
3	Jun 23,2015 06:50	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete.						
4	Jun 23,2015 06:51	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, 911 caller, Nearest med., Amb. and driver, Location safety equipt., Job scope.						
5	Jun 23,2015 07:28	Pressure Test Start	Water	--	2,500.0	--	--	0.00
		Remarks: Pressure test 2500 psi.						
6	Jun 23,2015 07:30	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Pressure test complete.						
7	Jun 23,2015 07:32	Establish Circulation	Water	2.00	700.0	--	2.00	2.00
		Remarks: Establish circulation 2 BBLs of fresh water.						
8	Jun 23,2015 07:33	Mix Cement	Thermal 35	2.00	500.0	--	6.70	8.70
		Remarks: Mix and pump 6.7 BBLs of cement @ 15.8 lb/gal.						
9	Jun 23,2015 07:36	Displace Fluid	Water	2.00	500.0	--	22.00	30.70
		Remarks: Displace 22 BBLs of water.						
10	Jun 23,2015 07:44	Stop		--	--	--	--	30.70
		Remarks: Stop and wait for the next plug.						
11	Jun 23,2015 12:06	Pressure Test	Water	--	3,000.0	--	--	30.70
		Remarks: Pressure test 3000 psi.						
12	Jun 23,2015 12:07	Establish Circulation	Water	2.00	1,400.0	--	5.00	35.70
		Remarks: Establish circulation 5 BBLs of water.						
13	Jun 23,2015 12:09	Pump	Water	2.00	1,500.0	--	20.00	55.70
		Remarks: 20 BBLs of SMS.						
14	Jun 23,2015 12:19	Pump Spacer	Water	2.00	1,200.0	--	5.00	60.70
		Remarks: 5 BBLs fresh water spacer.						
15	Jun 23,2015 12:22	Mix Cement	0-1-0 G	2.00	1,000.0	--	63.50	124.20
		Remarks: Mix and pump 63.5 BBLs of cement @ 15.8 lb/gal.						
16	Jun 23,2015 12:53	Displace Fluid	Water	2.00	1,500.0	--	11.50	135.70
		Remarks: Displace 11.5 BBLs of water.						
17	Jun 23,2015 13:40	Rig Out		--	--	--	--	135.70
		Remarks: Rig out.						
18	Jun 23,2015 13:50	Job Complete		--	--	--	--	135.70
		Remarks: Job complete.						
19	Jun 23,2015 14:00	Leave Location		--	--	--	--	135.70
		Remarks: Leave.						



Pumping Service Report

9204342

Client Name Anadarko Petroleum Corporation	Well Name Fort St. Vrain # 19	Rig Concord Well Servicing 5	Job Date June 24,2015	Call Sheet 1058614
Client Representative Mr. Luis Morales	Surface Well Location SW SW Sec 9:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hansen, Kevin (27592)



Pumping Service Report

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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)
10.000	--	512.000	760.000	--	--

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	32.61	8.097	9.625	0.0	512.0
4.500	11.600		--	--	--	--	--	760.0	860.0

Products

Plug 1

From Depth (ft): 133

To Depth (ft): 860

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 210 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 49.7 (bbl)

Water Temperature(°F) = 80 , Bulk Temperature(°F) = 80 , Slurry Temperature(°F) = 87

+ 1 % of CaCl₂ (Preblend),

+ 0.3 % of CFL-3 (Preblend),

+ 0.3 % of CFR-2 (Preblend),

+ 0.4 % of CDF-4P (Preblend),

+ 0.25 % of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 133

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 02, 2015 09:59

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	06/24/2015 08:30	06/24/2015 11:00
446145	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	06/24/2015 08:30	06/24/2015 11:00
201114	PICKUP	3/4 Ton				06/24/2015 08:30	06/24/2015 11:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Young, Craig (27496)	06/24/2015 08:30	06/24/2015 11:00		
Yates, William (29930)	06/24/2015 08:30	06/24/2015 11:00		
Hansen, Kevin (27592)	06/24/2015 08:30	06/24/2015 11:00		



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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	Jun 24,2015 08:30	Arrive On Location		--	--	--	--	0.00
2	Jun 24,2015 08:40	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting trucks and filled out JSA						
3	Jun 24,2015 08:50	Rig in Complete		--	--	--	--	0.00
4	Jun 24,2015 09:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Discussed job and safety concerns with rig crew and signed JSA						
5	Jun 24,2015 09:16	Pressure Test Start	Water	2.00	150.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
6	Jun 24,2015 09:20	Pressure Test Complete		--	2,000.0	--	--	2.00
		Remarks: Pressure test good						
7	Jun 24,2015 09:21	Establish Circulation	Water	2.00	200.0	--	4.00	2.00
8	Jun 24,2015 09:25	Pump Preflush	Water	2.00	200.0	--	10.00	12.00
		Remarks: Pumped SAPP						
9	Jun 24,2015 09:29	Pump Spacer	Water	2.00	250.0	--	20.00	32.00
		Remarks: Pumped fresh water spacer						
10	Jun 24,2015 10:24	Mix Cement	0:1:0 Type III	2.00	250.0	--	49.70	81.70
		Remarks: Pumped @ D-14.8, Y-1.33, WR-6.31						
11	Jun 24,2015 10:04	Displace Fluid	Water	2.00	200.0	--	1.00	82.70
12	Jun 24,2015 10:10	Job Complete		--	--	--	--	82.70
13	Jun 24,2015 10:11	Wash		--	--	--	--	82.70
14	Jun 24,2015 10:35	Rig Out		--	--	--	--	82.70
15	Jun 24,2015 10:55	Pre-Departure Meeting		--	--	--	--	82.70
		Remarks: Discussed journey management						
16	Jun 24,2015 11:00	Leave Location		--	--	--	--	82.70

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

Material Transfer Sheet Number

Material Transfer Sheet Number

57213

57214