



Pumping Service Report

9206200

Client Name Anadarko Petroleum Corporation	Well Name Ft. St. Vrain #22	Rig ECWS 7	Job Date August 18,2015	Call Sheet 1060078
Client Representative Mr. Dave Donoho	Surface Well Location NW SW Sec 10:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Klosterman, Austin (27698)



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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): --- @ --

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)
4.500	11.600		--	--	--	--	--	0.0	7,050.0

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		--	--	--	--	0.000	7,040.000

Products

Plug 1

From Depth (ft): 7040

To Depth (ft): 6363

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 40 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 10.5 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 0.3 % of ASM-3 (Preblend),

+ 0.3 % of CFR-2 (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6363

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201017	PICKUP	1 Ton				08/18/2015 14:00	08/18/2015 16:30
740004	BODY JOB	C & A				08/18/2015 14:00	08/18/2015 16:30
746502	BODY JOB	Baby Bulker				08/18/2015 14:00	08/18/2015 16:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Klosterman, Austin (27698)	08/18/2015 14:00	08/18/2015 16:30		
Joyner, Barlen (28603)	08/18/2015 14:00	08/18/2015 16:30		
Crane, Troy (29924)	08/18/2015 14:00	08/18/2015 16:30		
Curtner, Jerry (28310)	08/18/2015 14:00	08/18/2015 16:30		



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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	Aug 18,2015 14:00	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Aug 18,2015 14:10	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Aug 18,2015 14:30	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Aug 18,2015 14:45	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Aug 18,2015 14:48	Pressure Test Start	Water	0.00	3,800.0	0.0	0.00	0.00
6	Aug 18,2015 14:49	Pressure Test Complete	Water	0.00	3,800.0	0.0	0.00	0.00
7	Aug 18,2015 14:50	Establish Circulation	Water	2.00	500.0	0.0	5.00	5.00
8	Aug 18,2015 15:18	Pump	Thermal 35	2.00	70.0	0.0	10.50	15.50
Remarks: Mix up and pump 40sx @15.8#, Yield 1.51, WR 6.23, MixH2O 6bbls. Sclaed@1519@15.8#.								
9	Aug 18,2015 15:21	Displace Fluid	Water	3.00	780.0	0.0	24.50	40.00
10	Aug 18,2015 15:40	Rig Out		0.00	0.0	0.0	0.00	40.00
11	Aug 18,2015 16:00	Job Complete		0.00	0.0	0.0	0.00	40.00
12	Aug 18,2015 16:30	Leave Location		0.00	0.0	0.0	0.00	40.00

Did Float Hold: Not Applicable

Fluid Returns : No

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



Pumping Service Report

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Client Name Anadarko Petroleum Corporation	Well Name Ft. St. Vrain #22	Rig ECWS 7	Job Date August 18, 2015	Call Sheet 1060089
Client Representative Mr. Dave Donoho	Surface Well Location NW SW Sec 10:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Maguire, Matthew (26325)

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	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	24.000	J-55	1,370.0	2,950.0	--	8.097	9.625	0.0	--
4.500	11.600	J-55	4,960.0	5,350.0	111.75	4.000	5.000	0.0	7,190.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.375	4.700	J-55	8,100.000	14.560	1.995	2.910	0.000	3,767.000

Products

Plug 1

From Depth (ft): 3767
To Depth (ft): 3573
Plug Type : Abandonment
Acids/Blends/Fluids :
Plug: 350 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 71.7 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 65
+ 0.5 % of CFR-2 (Preblend),
+ 0.2 % of FMC (Preblend),
+ 0.5 % of LWA (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3573

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11



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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>
449095	TRAILER	Utility Trailer	201168	PICKUP	1 Ton	08/19/2015 09:30	08/19/2015 13:30
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	08/19/2015 09:30	08/19/2015 13:30
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	08/19/2015 09:30	08/19/2015 13:30
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>		<u>Second End Shift</u>		
Maguire, Matthew (26325)	08/19/2015 09:30	08/19/2015 13:30					
Schneider, Patrick (24093)	08/19/2015 09:30	08/19/2015 13:30					
Melgarejo Herrera, Eduardo (26606)	08/19/2015 09:30	08/19/2015 13:30					



Pumping Service Report

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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	Aug 19,2015 09:30	Arrive On Location		--	--	--	--	0.00
2	Aug 19,2015 09:15	Tailgate Meeting		--	--	--	--	0.00
		Remarks: JSA.						
3	Aug 19,2015 10:20	Crew Briefing (Rig in)		--	--	--	--	0.00
4	Aug 19,2015 10:30	Rig in Complete		--	--	--	--	0.00
5	Aug 19,2015 10:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
6	Aug 19,2015 10:40	STEACS Briefing		--	--	--	--	0.00
7	Aug 19,2015 10:55	Sign-off on Safety		--	--	--	--	0.00
8	Aug 19,2015 10:59	Start - Fluid	Water	1.50	450.0	--	1.00	1.00
		Remarks: Filled lines.						
9	Aug 19,2015 11:00	Pressure Test Start	Water	--	2,500.0	--	--	1.00
10	Aug 19,2015 11:01	Pressure Test Complete	Water	--	2,500.0	--	--	1.00
		Remarks: All lines held pressure.						
11	Aug 19,2015 11:02	Establish Circulation	Water	2.00	1,200.0	--	5.00	6.00
		Remarks: We had circulation.						
12	Aug 19,2015 11:05	Pump Preflush	Water	2.00	1,700.0	--	20.00	26.00
		Remarks: SMS.						
13	Aug 19,2015 11:16	Pump Spacer	Water	2.00	1,600.0	--	5.00	31.00
14	Aug 19,2015 11:19	Mix Cement	0-1-0 G	2.00	1,500.0	--	71.70	102.70
		Remarks: WR=4.98,						
15	Aug 19,2015 11:51	Displace Fluid	Water	1.00	400.0	--	11.60	114.30
		Remarks: Left 3 bbls on top of retainer.						
16	Aug 19,2015 11:56	Stop		--	--	--	--	114.30
17	Aug 19,2015 12:30	Wash	Water	1.50	100.0	--	20.00	114.30
18	Aug 19,2015 13:00	Rig Out		--	--	--	--	114.30
		Remarks: Revisit JSA.						
19	Aug 19,2015 13:20	Pre-Departure Meeting		--	--	--	--	114.30
20	Aug 19,2015 13:25	Job Complete		--	--	--	--	114.30
21	Aug 19,2015 13:30	Leave Location		--	--	--	--	114.30
		Remarks: Revisit JSA, leave location safely.						

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

65481

65482



Pumping Service Report

9207976

Client Name Anadarko Petroleum Corporation	Well Name Ft. St. Vrain #22	Rig ECWS 7	Job Date August 20,2015	Call Sheet 1060127
Client Representative Mr. Dave Donoho	Surface Well Location NW SW Sec 10:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hall, Andrew J (25267)

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	20.000	0.000	870.000	--	--

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	24.000	J-55	1,370.0	2,950.0	33.05	8.097	9.625	0.0	519.0
4.500	11.600	J-55	4,960.0	5,350.0	1.55	4.000	5.000	770.0	870.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.375	4.700	J-55	8,100.000	3.360	1.995	2.910	0.000	870.000

Products

Plug 1

From Depth (ft): 100

To Depth (ft): 870

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 210 Sacks of 0-1-8 G, Density = 14.8 lb/gal, Volume Pumped = 49.7 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 0.5 % of CaCl₂ (Preblend),

+ 0.3 % of CFL-3 (Preblend),

+ 0.3 % of CFR-2 (Preblend),

+ 0.4 % of CDF-4P (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	--	--	--	--	Jun 07, 2015 22:11



Pumping Service Report

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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>
449093	TRAILER	Utility Trailer	201009	PICKUP	1 Ton	08/20/2015 11:30	08/20/2015 14:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	08/20/2015 11:30	08/20/2015 14:30
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	08/20/2015 11:30	08/20/2015 14:30

Crew and Bonuses				
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J (25267)	08/20/2015 11:30	08/20/2015 14:30		
Pigg, Martin (28301)	08/20/2015 11:30	08/20/2015 14:30		
Orist, Mark (28876)	08/20/2015 11:30	08/20/2015 14:30		

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	Aug 20,2015 11:30	Arrive On Location		--	--	--	--	0.00
2	Aug 20,2015 11:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Aug 20,2015 12:00	Rig in Complete		--	--	--	--	0.00
4	Aug 20,2015 12:05	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Aug 20,2015 12:22	Pressure Test Start	Water	1.00	2,000.0	--	2.00	2.00
6	Aug 20,2015 12:24	Pressure Test Complete		--	--	--	--	2.00
7	Aug 20,2015 12:25	Establish Circulation	Water	2.00	100.0	--	5.00	7.00
8	Aug 20,2015 12:27	Pump Preflush	Water	2.00	100.0	--	10.00	17.00
Remarks: SAAP								
9	Aug 20,2015 12:30	Pump Spacer	Water	2.00	100.0	--	20.00	37.00
10	Aug 20,2015 12:35	Pump	0:1:0 Type III	3.00	2,250.0	--	49.70	86.70
11	Aug 20,2015 12:50	Displace Fluid	Water	2.00	200.0	--	1.50	88.20
12	Aug 20,2015 13:15	Rig Out		--	--	--	--	88.20
13	Aug 20,2015 14:00	Job Complete		--	--	--	--	88.20
Remarks: AAR								
14	Aug 20,2015 14:30	Leave Location		--	--	--	--	88.20

Did Float Hold:	Not Applicable
Fluid Returns :	No
Type :	
Volume (bbl) :	
Temperature (°F) :	--
FDAS Functioning Correctly :	Yes
Was the Program Followed As Per Design? :	Yes

Material Transfer Sheet Number	
<u>Material Transfer Sheet Number</u>	65499