



Pumping Service Report

9207877

Client Name Anadarko Petroleum Corporation	Well Name FT. ST. Vrain 26	Rig Leed 723	Job Date August 07,2015	Call Sheet 1059775
Client Representative Mr. Nate Windholz	Surface Well Location NW SW Sec 3:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor

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): --- @ --

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	P-110	7,560.0	10,690.0	104.79	4.000	5.000	0.0	6,742.0

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	0.000	J-55	--	--	--	--	0.000	6,738.000

Products

Plug 1

From Depth (ft): 6242

To Depth (ft): 6738

Plug Type : Abandonment

Acids/Blends/Fluids :

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

Water Temperature(°F) = 70 , Bulk Temperature(°F) = 75 , Slurry Temperature(°F) = 86

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of ASM-3 (Preblend)

Plug 2

From Depth (ft):

To Depth (ft):

Plug Type : Abandonment

Acids/Blends/Fluids :

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6242

Wellbore Fluid

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

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Bridge Plug	6,742.000	Third Party



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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	201168	PICKUP	1 Ton	08/07/2015 09:30	08/07/2015 13:00
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	08/07/2015 09:30	08/07/2015 13:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	08/07/2015 09:30	08/07/2015 13:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>		<u>Second End Shift</u>		
Svoboda, Miloslav (28226)	08/07/2015 08:00	08/07/2015 18:00					
Ripka, Robert (23825)	08/07/2015 08:00	08/07/2015 18:00					
Hansen, Kevin (27592)	08/07/2015 08:00	08/07/2015 18:00					



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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	Aug 07,2015 09:30	Arrive On Location		--	--	--	--	0.00
		Remarks: sign in						
2	Aug 07,2015 10:05	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Aug 07,2015 10:35	Rig in Complete		--	--	--	--	0.00
4	Aug 07,2015 10:45	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: jsa with rig crew						
5	Aug 07,2015 11:00	Pressure Test Start	Water	1.00	3,000.0	--	2.00	2.00
6	Aug 07,2015 11:02	Pressure Test Complete		--	--	--	--	2.00
		Remarks: pressure held						
7	Aug 07,2015 11:04	Pump Spacer	Water	1.00	100.0	--	5.00	7.00
		Remarks: fresh water						
8	Aug 07,2015 11:11	Mix Cement	Thermal 35	2.00	250.0	--	6.70	13.70
		Remarks: mixed & pumped away						
9	Aug 07,2015 11:15	Pump Displacement	Water	3.00	800.0	--	23.00	36.70
10	Aug 07,2015 11:26	Stop		--	--	--	--	36.70
		Remarks: open return						
11	Aug 07,2015 11:35	Wash		--	--	--	--	36.70
		Remarks: wash up pump						
12	Aug 07,2015 11:45	Rig Out		--	--	--	--	36.70
13	Aug 07,2015 12:10	Job Complete		--	--	--	--	36.70
14	Aug 07,2015 12:25	Pre-Departure Meeting		--	--	--	--	36.70
15	Aug 07,2015 12:55	Leave Location		--	--	--	--	36.70

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

Material Transfer Sheet Number

65368

65369



Pumping Service Report

9207879

Client Name Anadarko Petroleum Corporation	Well Name FT. ST. Vrain 26	Rig Leed 723	Job Date August 10,2015	Call Sheet 1059845
Client Representative Mr. Nate Windholz	Surface Well Location NW SW Sec 3:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor

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	--	511.000	820.000	--	--

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)
7.625	24.000	H-40	2,040.0	2,750.0	24.50	7.025	8.500	0.0	511.0
4.500	11.600	P-110	7,560.0	10,690.0	112.23	4.000	5.000	0.0	7,221.0

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	0.000	J-55	--	--	--	--	0.000	3,848.000

Products

Plug 1

From Depth (ft): 3810

To Depth (ft): 4210

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 180 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 37 (bbl)

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

Plug 2

From Depth (ft): 100

To Depth (ft): 921

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 220 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 52 (bbl)

Water Temperature(°F) = 80 , Bulk Temperature(°F) = 85 , Slurry Temperature(°F) = 90

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of CFL-3 (Preblend),

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

+ 0.5 % of CaCl₂ (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)



Pumping Service Report

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Fluid & Cement Data

Expected Cement Top: Depth (ft): 3810

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	--	--	--	--	Oct 29, 2014 06:51

Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Cement Retainer	3,848.000	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>
449087	TRAILER	Utility Trailer	201168	PICKUP	1 Ton	08/10/2015 07:00	08/10/2015 17:00
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	08/10/2015 07:00	08/10/2015 17:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	08/10/2015 07:00	08/10/2015 17:00
446113	TRAILER	Bulker	746113	TRACTOR	Tandem - Tractor	08/10/2015 07:00	08/10/2015 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>
Svoboda, Miloslav (28226)	08/10/2015 05:00	08/10/2015 19:00		
Young, Craig (27496)	08/10/2015 05:00	08/10/2015 19:00		
Yates, William (29930)	08/10/2015 05:00	08/10/2015 19:00		
Martinez, Fernando (28421)	08/10/2015 05:00	08/10/2015 19:00		

Treatment Reports & Remarks



Pumping Service Report

9207879

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 10, 2015 07:00	Arrive On Location		--	--	--	--	0.00
		Remarks: sign in						
2	Aug 10, 2015 07:15	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: tailgate meeting, spot trucks						
3	Aug 10, 2015 07:55	Rig in Complete		--	--	--	--	0.00
4	Aug 10, 2015 09:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Jsa with rig crew						
5	Aug 10, 2015 09:18	Pressure Test Start	Water	2.00	3,000.0	--	2.00	2.00
6	Aug 10, 2015 09:19	Pressure Test Complete	Water	--	--	--	--	2.00
		Remarks: pressure held						
7	Aug 10, 2015 09:20	Establish Circulation	Water	2.50	800.0	--	5.00	7.00
8	Aug 10, 2015 09:22	Pump Preflush	Water	2.50	800.0	--	20.00	27.00
		Remarks: SMS						
9	Aug 10, 2015 09:28	Pump Spacer	Water	2.50	700.0	--	10.00	37.00
		Remarks: fresh water						
10	Aug 10, 2015 09:31	Mix Cement	0-1-0 G	3.00	1,000.0	--	37.00	74.00
		Remarks: mixed & pumped away						
11	Aug 10, 2015 09:44	Pump Displacement	Water	3.00	800.0	--	11.90	85.90
		Remarks: left 3 bbl of slurry on top of retainer						
12	Aug 10, 2015 09:49	Stop		--	--	--	--	85.90
13	Aug 10, 2015 09:58	Wash	Water	--	--	--	10.00	95.90
		Remarks: wash up pump						
14	Aug 10, 2015 10:15	Job Complete		--	--	--	--	95.90
15	Aug 10, 2015 10:16	Wait On Instructions		--	--	--	--	95.90
		Remarks: wireline + rig crew						
16	Aug 10, 2015 14:59	Pressure Test Start	Water	2.00	3,200.0	--	2.00	2.00
17	Aug 10, 2015 15:02	Establish Circulation	Water	3.00	200.0	--	2.00	4.00
18	Aug 10, 2015 15:03	Pump Preflush	Water	3.00	200.0	--	10.00	14.00
		Remarks: SAPP						
19	Aug 10, 2015 15:07	Pump Spacer	Water	3.00	200.0	--	20.00	34.00
		Remarks: fresh water						
20	Aug 10, 2015 15:15	Mix Cement	0:1:0 Type III	3.00	300.0	--	52.00	86.00
		Remarks: mixed & pumped away						
21	Aug 10, 2015 15:34	Pump Displacement	Water	3.00	350.0	--	1.00	87.00
		Remarks: clean line						
22	Aug 10, 2015 15:35	Stop		--	--	--	--	87.00
		Remarks: open return						
23	Aug 10, 2015 15:45	Wash		--	--	--	--	87.00
		Remarks: wash up pump						
24	Aug 10, 2015 15:55	Job Complete		--	--	--	--	87.00
25	Aug 10, 2015 16:30	Pre-Departure Meeting		--	--	--	--	87.00
26	Aug 10, 2015 17:00	Leave Location		--	--	--	--	87.00



Treatment Reports & Remarks

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

Material Transfer Sheet Number

65382

65383

65368