



Cementing Service Report

9208139

Client Name Anadarko Petroleum Corporation	Well Name Ft St Vrain 20	Rig Leed 724	Job Date November 10,2015	Call Sheet 1062364
Client Representative Mr. Al Morales	Surface Well Location NW SE Sec 9:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor Prigmore, Dominic (27161)

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)	
4.500	11.600	J-55	4,960.0	5,350.0	105.14	4.000	5.000	0.0	6,765.0	
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	26.150	1.995	2.910	0.000	6,765.000		

Products										
Plug 1										
From Depth (ft):		6285								
To Depth (ft):		6765								
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) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 66										
+ 0.5 % of CFR-2 (Preblend),										
+ 0.25 % of ASM-3 (Preblend)										

Fluid & Cement Data					
Expected Cement Top:		Depth (ft): 6285			
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 29, 2014 06:51

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>
201401	PICKUP	1 Ton				11/10/2015 09:30	11/10/2015 12:00
740004	BODY JOB	C & A				11/10/2015 09:30	11/10/2015 12:00
746508	BODY JOB	Baby Bulker				11/10/2015 09:30	11/10/2015 12:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>				<u>Second Start Shift</u>	<u>Second End Shift</u>
Prigmore, Dominic (27161)	11/10/2015 09:30	11/10/2015 12:00					
Leue, David (28684)	11/10/2015 09:30	11/10/2015 12:00					
Vitera, John (29843)	11/10/2015 09:30	11/10/2015 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	Nov 10,2015 09:30	Arrive On Location		--	--	--	--	0.00	
2	Nov 10,2015 09:40	Crew Briefing (Rig in)		--	--	--	--	0.00	
3	Nov 10,2015 10:30	Rig in Complete		--	--	--	--	0.00	
4	Nov 10,2015 10:50	Crew Briefing (Pre Job)		--	--	--	--	0.00	
5	Nov 10,2015 11:23	Pressure Test Start	Water	--	3,000.0	--	--	0.00	
6	Nov 10,2015 11:24	Pressure Test Complete	Water	--	3,000.0	--	--	0.00	
	Remarks: Good P.T								
7	Nov 10,2015 11:25	Establish Circulation	Water	4.00	1,500.0	--	5.00	5.00	
	Remarks: Circulation achieved.								
8	Nov 10,2015 11:27	Mix Cement	Thermal 35	3.00	1,050.0	--	6.70	11.70	
	Remarks: T.O.C 6,285'								
9	Nov 10,2015 11:31	Displace Fluid	Water	4.00	1,800.0	--	22.00	33.70	
	Remarks: Displaced to balance plug.								
10	Nov 10,2015 11:55	Job Complete		--	--	--	--	33.70	
11	Nov 10,2015 12:15	Leave Location		--	--	--	--	33.70	
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									
63743									



Cementing Service Report

9209029

Client Name Anadarko Petroleum Corporation	Well Name Ft St Vrain 20	Rig Leed 724	Job Date November 12,2015	Call Sheet 1062429
Client Representative Mr. Al Morales	Surface Well Location NW SE Sec 9:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor Schneider, Patrick (24093)

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	--	3,710.000	4,120.000	--	--

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	J-55	4,960.0	5,350.0	64.03	4.000	5.000	0.0	4,120.0

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	14.460	1.995	2.910	0.000	3,740.000

Products

Plug 1

From Depth (ft): 3710

To Depth (ft): 4120

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 230 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 47.1 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 35 , Slurry Temperature(°F) = 62

+ 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): 3710

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
Cement Retainer	3,740.000	Third Party



9209029

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>
201114	PICKUP	3/4 Ton				11/12/2015 06:30	11/12/2015 09:15
740082	BODY JOB	C & A				11/12/2015 06:30	11/12/2015 09:15
446145	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	11/12/2015 06:30	11/12/2015 09:15
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Schneider, Patrick (24093)	11/12/2015 06:30	11/12/2015 09:15					
Leue, David (28684)	11/12/2015 06:30	11/12/2015 09:15					
Phillips, James (23627)	11/12/2015 06:30	11/12/2015 09:15					

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	Nov 12,2015 06:30	Arrive On Location		--	--	--	--	0.00	
2	Nov 12,2015 06:35	Crew Briefing (Rig in)		--	--	--	--	0.00	
		Remarks: discussed lease hazards and rig in procedures							
3	Nov 12,2015 07:00	Rig In		--	--	--	--	0.00	
4	Nov 12,2015 07:15	Rig in Complete		--	--	--	--	0.00	
5	Nov 12,2015 07:20	Crew Briefing (Pre Job)		--	--	--	--	0.00	
		Remarks: discussed job scope and everyones dutys							
6	Nov 12,2015 07:41	Start - Fluid	Water	1.00	--	--	1.00	1.00	
		Remarks: filled lines							
7	Nov 12,2015 07:43	Pressure Test Start	Water	--	3,000.0	--	--	1.00	
8	Nov 12,2015 07:45	Pressure Test Complete	Water	--	0.0	--	--	1.00	
		Remarks: good pressure test							
9	Nov 12,2015 07:45	Injection Test	Water	3.00	1,300.0	--	20.00	21.00	
		Remarks: well seal							
10	Nov 12,2015 07:58	Pump Spacer	Water	2.00	600.0	--	10.00	31.00	
		Remarks: fresh water spacer							
11	Nov 12,2015 08:08	Mix Cement	0-1-0 G	3.00	800.0	--	47.10	78.10	
		Remarks: 230 sks plug cement @ 15.8 ppg yield = 1.15 h2o req = 4.98 total h2o = 27 bbl							
12	Nov 12,2015 08:26	Displace Fluid	Water	3.00	1,200.0	--	11.50	89.60	
		Remarks: left 3 bbl cement on top of retainer							
13	Nov 12,2015 08:30	Pull Out Off Retainer		--	--	--	--	89.60	
		Remarks: rig pulled out of retainer							
14	Nov 12,2015 08:35	Tailgate Meeting		--	--	--	--	89.60	
		Remarks: revisited JSA							
15	Nov 12,2015 08:40	Rig Out		--	--	--	--	89.60	
16	Nov 12,2015 08:50	Wash	Water	--	--	--	--	89.60	
		Remarks: washed pump and lines							
17	Nov 12,2015 09:05	Job Complete		--	--	--	--	89.60	
18	Nov 12,2015 09:10	Pre-Departure Meeting		--	--	--	--	89.60	
19	Nov 12,2015 09:15	Leave Location		--	--	--	--	89.60	
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									
63760									
63761									

Client Name Anadarko Petroleum Corporation	Well Name Ft St Vrain 20	Rig Leed 724	Job Date November 13,2015	Call Sheet 1062457
Client Representative Mr. Al Morales	Surface Well Location NW SE Sec 9:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	Lead Supervisor Doran, Benjamin (27933)

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	--	0.000	514.000	--	--

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	32.73	8.097	9.625	0.0	514.0
4.500	11.600	J-55	4,960.0	5,350.0	1.62	4.000	5.000	840.0	944.0

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	3.650	1.995	2.910	0.000	944.000

Products

Plug 1

From Depth (ft): 300

To Depth (ft): 944

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 250 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 59.2 (bbl)

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

+ 1 % 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: Depth (ft): 300

Wellbore Fluid

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



9209203

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	11/13/2015 06:45	11/13/2015 09:25
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	11/13/2015 06:45	11/13/2015 09:25
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	11/13/2015 06:45	11/13/2015 09:25
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>			<u>Second Start Shift</u>	<u>Second End Shift</u>	
Doran, Benjamin (27933)	11/13/2015 06:45	11/13/2015 09:25					
Pigg, Martin (28301)	11/13/2015 06:45	11/13/2015 09:25					
Bark, Eric (28944)	11/13/2015 06:45	11/13/2015 09:25					
Trujillo, Dino (29839)	11/13/2015 06:45	11/13/2015 09:25					

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	Nov 13,2015 06:45	Arrive On Location		--	--	--	--	0.00
2	Nov 13,2015 06:50	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Nov 13,2015 07:35	Rig in Complete		--	--	--	--	0.00
4	Nov 13,2015 07:45	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Nov 13,2015 07:52	Pressure Test Start		2.00	100.0	--	1.00	0.00
	Remarks: Fill lines							
6	Nov 13,2015 07:53	Pressure Test Complete		--	2,000.0	--	--	0.00
	Remarks: All lines held pressure							
7	Nov 13,2015 07:54	Pump	Water	2.70	120.0	--	5.00	5.00
8	Nov 13,2015 07:56	Pump Preflush	Water	2.70	130.0	--	10.00	15.00
	Remarks: Mudflush							
9	Nov 13,2015 08:01	Pump	Water	2.70	200.0	--	5.00	20.00
10	Nov 13,2015 08:03	Mix Cement	0:1:0 Type III	2.70	300.0	--	59.20	79.20
	Remarks: Mix/Pump 250 Sacks @ 14.8 PPG							
11	Nov 13,2015 08:36	Displace Fluid	Water	2.00	450.0	--	1.50	80.70
12	Nov 13,2015 08:40	Wash		--	--	--	15.00	95.70
13	Nov 13,2015 09:00	Rig Out		--	--	--	--	95.70
14	Nov 13,2015 09:15	Job Complete		--	--	--	--	95.70
15	Nov 13,2015 09:25	Leave Location		--	--	--	--	95.70
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								
63779								
63780								