



**Pumping
Service Report**

9191405

Client Name Anadarko Petroleum Corporation	Well Name Rocky Mountain Fuel Company F #3	Rig Ensign Drilling Inc. 328	Job Date May 12,2014	Call Sheet 1041935
Client Representative Rodrigo Vierra	Surface Well Location SW SE Sec 9:T1N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	

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	---	--	--	--	--	--	--	--

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	---	--	--	--	--	0.000	1,000.000

Products

Plug 1

From Depth (ft): 870

To Depth (ft): 1000

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 160 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 42 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 60
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 870

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.340	--	--	Apr 15, 2014 14:27



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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	201025	PICKUP	1 Ton	05/12/2014 12:00	05/12/2014 15:30
200918	PICKUP	3/4 Ton				05/12/2014 12:00	05/12/2014 15:30
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	05/12/2014 12:00	05/12/2014 15:30
746502	BODY JOB	Baby Bulker				05/12/2014 12:00	05/12/2014 15:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Douglass, Brian	05/12/2014 15:01	05/12/2014 15:30		
Schroeder, Stephen	05/12/2014 15:01	05/12/2014 15:30		
Hansen, Kevin	05/12/2014 15:01	05/12/2014 15:30		
Morris, Theodore	05/12/2014 15:01	05/12/2014 15:30		
Peterson, Ryan	05/12/2014 15:01	05/12/2014 15:30		
Davila, Israel	05/12/2014 15:01	05/12/2014 15:30		

Treatment Reports & Remarks



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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	May 12, 2014 12:00	Arrive On Location		--	--	--	--	0.00
2	May 12, 2014 12:10	Tailgate Meeting		--	--	--	--	0.00
3	May 12, 2014 13:00	Rig In		--	--	--	--	0.00
4	May 12, 2014 13:30	Safety Meeting		--	--	--	--	0.00
5	May 12, 2014 13:35	Sign-off on Safety		--	--	--	--	0.00
6	May 12, 2014 13:40	Establish Circulation	Water	1.00	50.0	--	1.50	1.50
		Remarks: fill lines						
7	May 12, 2014 13:41	Pressure Test		--	2,000.0	--	--	1.50
8	May 12, 2014 13:43	Establish Circulation	Water	2.00	300.0	--	5.00	6.50
9	May 12, 2014 13:45	Pump Preflush	Water	2.00	250.0	--	20.00	26.50
		Remarks: with sms						
10	May 12, 2014 13:56	Pump Preflush	Water	2.00	200.0	--	5.00	31.50
11	May 12, 2014 14:02	Mix Cement	0:1:0 Type III	2.00	100.0	--	41.00	72.50
12	May 12, 2014 14:18	Stop		--	--	--	--	72.50
		Remarks: rig is stinging out						
13	May 12, 2014 14:23	Pump	Water	1.00	50.0	--	0.50	73.00
14	May 12, 2014 14:24	Stop		--	--	--	--	73.00
		Remarks: rig is pulling up to 718 feet						
15	May 12, 2014 14:32	Pump	0:1:0 Type III	1.00	20.0	--	0.50	73.50
		Remarks: .5 bbl of cement						
16	May 12, 2014 14:34	Pump Displacement	Water	1.00	20.0	--	2.00	75.50
17	May 12, 2014 14:37	Stop		--	--	--	--	75.50
18	May 12, 2014 14:40	Rig Out		--	--	--	--	75.50
19	May 12, 2014 15:15	Job Complete		--	--	--	--	75.50
20	May 12, 2014 15:25	Pre-Departure Meeting		--	--	--	--	75.50
21	May 12, 2014 15:30	Leave Location		--	--	--	--	75.50

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

46100



**Pumping
Service Report**

9191904

Client Name Anadarko Petroleum Corporation	Well Name Rocky Mountain Fuel Company F #3	Rig Ensign Drilling Inc. 328	Job Date May 16,2014	Call Sheet 1042021
Client Representative Rodrigo Vierra	Surface Well Location SW SE Sec 9:T1N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	

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	10.500	J-55	4,010.0	4,790.0	--	4.052	5.000	0.0	--

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	2.890	1.995	2.910	0.000	747.000

Products

Plug 1

From Depth (ft): 747
To Depth (ft): 427
Plug Type : Abandonment
Acids/Blends/Fluids :
Plug: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 5.1 (bbl)
Water Temperature(°F) = 45 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 45
+ 2 % of CaCl₂ (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 427

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.340	--	--	Apr 15, 2014 14:27



**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>
449087	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	05/16/2014 07:00	05/16/2014 09:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	05/16/2014 07:00	05/16/2014 09:30
746506	BODY JOB	Baby Bulker				05/16/2014 07:00	05/16/2014 09:30

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	05/16/2014 07:00	05/16/2014 09:30		
Prigmore, Dominic	05/16/2014 07:00	05/16/2014 09:30		
Feigenbaum, Andrew	05/16/2014 07:00	05/16/2014 09:30		
Leue, David	05/16/2014 07:00	05/16/2014 09:30		
Lampp III, Larry	05/16/2014 07:00	05/16/2014 09:30		

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	May 16,2014 06:00	Arrive On Location	---	--	--	--	--	0.00
2	May 16,2014 06:05	Tailgate Meeting	---	--	--	--	--	0.00
3	May 16,2014 06:30	Rig In	---	--	--	--	--	0.00
4	May 16,2014 07:50	Safety Meeting	---	--	--	--	--	0.00
5	May 16,2014 08:00	Sign-off on Safety	---	--	--	--	--	0.00
6	May 16,2014 08:04	Start - Fluid	Water	1.00	50.0	--	1.00	1.00
		Remarks: Filled lines.						
7	May 16,2014 08:06	Pressure Test	---	--	2,500.0	--	--	1.00
		Remarks: All lines held pressure.						
8	May 16,2014 08:08	Establish Circulation	Water	2.00	110.0	--	1.00	2.00
		Remarks: We had circulation.						
9	May 16,2014 08:16	Mix Cement	0-1-0 G	2.00	50.0	--	5.10	7.10
10	May 16,2014 08:20	Displace Fluid	Water	2.00	27.0	--	1.50	8.60
		Remarks: Displaced 1.5 bbls, went to boost pump only @ 0.5 bbls to a balanced plug.						
11	May 16,2014 08:22	Stop	---	--	--	--	--	8.60
12	May 16,2014 08:25	Wash	Water	1.50	100.0	--	20.00	8.60
13	May 16,2014 09:10	Rig Out	---	--	--	--	--	8.60
14	May 16,2014 09:20	Pre-Departure Meeting	---	--	--	--	--	8.60
15	May 16,2014 09:25	Job Complete	---	--	--	--	--	8.60
16	May 16,2014 09:29	Leave Location	---	--	--	--	--	8.60



**Pumping
Service Report**

9191904

Treatment Reports & Remarks

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

46121



**Pumping
Service Report**

9191412

Client Name Anadarko Petroleum Corporation	Well Name Rocky Mountain Fuel Company F #3	Rig Ensign Drilling Inc. 328	Job Date May 23,2014	Call Sheet 1042262
Client Representative Rodrigo Vierra	Surface Well Location SW SE Sec 9:T1N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	

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	10.500	---	--	--	--	--	--	--	--

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	---	--	--	--	--	0.000	1,168.000

Products

Plug 1
From Depth (ft): 975
To Depth (ft): 1168
Plug Type : Abandonment
Acids/Blends/Fluids :
Plug: 30 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 6.14 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 65

Fluid & Cement Data

Expected Cement Top: Depth (ft): 797					
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.340	--	--	Apr 15, 2014 14:27



**Pumping
Service Report**

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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
449095	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	05/23/2014 06:45	05/23/2014 10:20
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	05/23/2014 06:45	05/23/2014 10:20
746502	BODY JOB	Baby Bulker				05/23/2014 06:45	05/23/2014 10:20

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Douglass, Brian	05/23/2014 06:45	05/23/2014 10:20		
Young, Craig	05/23/2014 06:45	05/23/2014 10:20		
Davila, Israel	05/23/2014 06:45	05/23/2014 10:20		
Paui, Corneliu	05/23/2014 06:45	05/23/2014 10:20		

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	May 23, 2014 06:45	Arrive On Location	---	--	--	--	--	0.00
2	May 23, 2014 06:50	Tailgate Meeting	---	--	--	--	--	0.00
3	May 23, 2014 07:10	Rig In	---	--	--	--	--	0.00
4	May 23, 2014 07:35	Safety Meeting	---	--	--	--	--	0.00
5	May 23, 2014 07:45	Sign-off on Safety	---	--	--	--	--	0.00
6	May 23, 2014 07:55	Establish Circulation	Water	--	10.0	--	1.00	1.00
		Remarks: fill lines						
7	May 23, 2014 07:57	Pressure Test	---	--	2,000.0	--	--	1.00
8	May 23, 2014 07:57	Establish Circulation	Water	2.00	20.0	--	2.00	3.00
9	May 23, 2014 08:06	Mix Cement	0-1-0 G	2.00	25.0	--	3.07	6.07
10	May 23, 2014 08:12	Pump Displacement	Water	2.00	20.0	--	2.70	8.77
11	May 23, 2014 08:14	Stop	---	--	--	--	--	8.77
		Remarks: rig pulling up 6 stands						
12	May 23, 2014 08:20	Pump	Water	0.75	400.0	--	0.50	9.27
		Remarks: squeezing						
13	May 23, 2014 08:22	Stop	---	--	--	--	--	9.27
14	May 23, 2014 08:53	Pump	Water	0.50	400.0	--	0.10	9.37
		Remarks: squeezing holding for 15 mins						
15	May 23, 2014 09:07	Establish Circulation	Water	2.00	10.0	--	2.00	11.37
16	May 23, 2014 09:10	Mix Cement	0-1-0 G	2.00	10.0	--	3.07	14.44
17	May 23, 2014 09:16	Pump Displacement	Water	2.00	10.0	--	1.50	15.94
18	May 23, 2014 09:19	Stop	---	--	--	--	--	15.94
19	May 23, 2014 09:22	Rig Out	---	--	--	--	--	15.94
20	May 23, 2014 10:00	Job Complete	---	--	--	--	--	15.94
21	May 23, 2014 10:10	Pre-Departure Meeting	---	--	--	--	--	15.94
22	May 23, 2014 10:20	Leave Location	---	--	--	--	--	15.94



**Pumping
Service Report**

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Treatment Reports & Remarks

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
46170