



# Pumping Service Report

9199366

Client Name Anadarko Petroleum Corporation	Well Name Raith L 15-3	Rig Concord Well Servicing 6	Job Date December 05, 2014	Call Sheet 1051523
Client Representative Mr. Derrick Powell	Surface Well Location Sec 15:T3N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Price, Ryan (25840)

## 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 (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
9.000	--	6,670.000	7,030.000	--	--

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	10.500	---	--	--	--	--	--	0.0	7,030.0

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	6,712.000

## Products

Plug 1
From Depth (ft): 6527
To Depth (ft): 7030
Plug Type : Abandonment
Acids/Blends/Fluids :
Tail: 110 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 33 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 50
+ 20 % of Silica Flour (Preblend),
+ 3 % of Gel (Preblend),
+ 0.1 % of SMS (Preblend),
+ 0.4 % of CFR-2 (Preblend),
+ 0.4 % of CFL-3 (Preblend)

## Fluid & Cement Data

Expected Cement Top:	Depth (ft): 6527				
<b>Wellbore Fluid</b>					
<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 08, 2014 16:26

## Attachment & Tools

Down Hole Tools		
<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Cement Retainer	6,712.000	Third Party

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

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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
201114	PICKUP	3/4 Ton				12/05/2014 07:30	12/05/2014 10:00
740067	BODY JOB	C & A				12/05/2014 07:30	12/05/2014 10:00
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	12/05/2014 07:30	12/05/2014 10:00

### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Price, Ryan (25840)	12/05/2014 07:30	12/05/2014 10:00		
Cheal, Samuel (28315)	12/05/2014 07:30	12/05/2014 10:00		
Tylo, Christopher (29799)	12/05/2014 07:30	12/05/2014 10:00		
Phillips, James (23627)	12/05/2014 07:30	12/05/2014 10:00		

## 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	Dec 05,2014 07:30	Arrive On Location		--	--	--	--	0.00
2	Dec 05,2014 07:35	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 05,2014 08:10	Rig in Complete		--	--	--	--	0.00
4	Dec 05,2014 08:14	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 05,2014 08:24	Sign-off on Safety		--	--	--	--	0.00
6	Dec 05,2014 08:38	Pump	Water	1.50	400.0	--	1.00	1.00
		Remarks: filled lines for pressure test						
7	Dec 05,2014 08:40	Pressure Test Start		--	2,000.0	--	--	1.00
8	Dec 05,2014 08:43	Pressure Test Complete		--	--	--	--	1.00
9	Dec 05,2014 08:44	Establish Circulation	Water	1.50	300.0	--	4.00	5.00
10	Dec 05,2014 08:47	Mix Cement	1-1-0 G	2.00	400.0	--	33.00	38.00
11	Dec 05,2014 08:57	Pump Displacement	Water	2.50	500.0	--	23.00	61.00
12	Dec 05,2014 09:15	Stop		--	--	--	--	61.00
13	Dec 05,2014 09:20	Wash		--	--	--	--	61.00
14	Dec 05,2014 09:40	Rig Out		--	--	--	--	61.00
15	Dec 05,2014 09:55	Job Complete		--	--	--	--	61.00
16	Dec 05,2014 09:55	Pre-Departure Meeting		--	--	--	--	61.00
17	Dec 05,2014 10:00	Leave Location		--	--	--	--	61.00

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





# Pumping Service Report

9201459

Client Name Anadarko Petroleum Corporation	Well Name Raith L 15-3	Rig Concord Well Servicing 6	Job Date December 08, 2014	Call Sheet 1051676
Client Representative Mr. Derrick Powell	Surface Well Location Sec 15:T3N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Klosterman, Austin (27698)

## 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	20.000	4,220.000	4,620.000	--	--

## 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	10.500	---	--	--	--	--	--	0.0	4,620.0

## 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	---	--	--	--	--	0.000	4,250.000

## Products

### Plug 1

From Depth (ft): 4220

To Depth (ft): 4620

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 180 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 37 (bbl)  
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70  
+ 0.5 % of CFR-2 (Preblend),  
+ 0.2 % of FMC (Preblend),  
+ 0.5 % of LWA (Preblend)

## Fluid & Cement Data

Expected Cement Top: Depth (ft): 4620

### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 08, 2014 16:26



## 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>
201173	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	12/08/2014 08:00	12/08/2014 11:30
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	12/08/2014 08:00	12/08/2014 11:30
746508	BODY JOB	Baby Bulker				12/08/2014 08:00	12/08/2014 11:30

#### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Klosterman, Austin (27698)	12/08/2014 08:00	12/08/2014 11:30		
Leue, David (28684)	12/08/2014 08:00	12/08/2014 11:30		
Johnson, Jakob (30073)	12/08/2014 08:00	12/08/2014 11:30		
Peterson, Ryan (28158)	12/08/2014 08:00	12/08/2014 11:30		

#### 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	Dec 08,2014 08:00	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Dec 08,2014 08:10	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Dec 08,2014 09:15	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Dec 08,2014 09:25	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Dec 08,2014 09:38	Pressure Test Start		0.00	3,000.0	0.0	0.00	0.00
6	Dec 08,2014 09:39	Pressure Test Complete		0.00	3,000.0	0.0	0.00	0.00
7	Dec 08,2014 09:40	Pump Preflush	Water	3.00	300.0	0.0	5.00	5.00
		Remarks: Fresh ahead.						
8	Dec 08,2014 09:42	Pump Preflush	Water	3.00	800.0	0.0	20.00	25.00
		Remarks: SMS.						
9	Dec 08,2014 09:48	Pump Preflush	Water	3.20	1,100.0	0.0	5.00	30.00
		Remarks: Fresh ahead.						
10	Dec 08,2014 09:50	Pump	0-1-0 G	3.20	1,000.0	0.0	37.00	67.00
		Remarks: Mix up and pump 180 sacks @15.8#, Yield 1.15, WR 4.98						
11	Dec 08,2014 10:01	Displace Fluid	Water	3.60	900.0	0.0	13.50	80.50
12	Dec 08,2014 10:30	Rig Out		0.00	0.0	0.0	0.00	80.50
13	Dec 08,2014 11:20	Job Complete		0.00	0.0	0.0	0.00	80.50
14	Dec 08,2014 11:30	Leave Location		0.00	0.0	0.0	0.00	80.50

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

54282

54283



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										
<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>	
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)	
4.500	10.500	J-55	4,010.0	4,790.0	27.11	4.052	5.000	0.0	1,700.0	
Tubing										
<u>Size</u>	<u>Weight</u>	<u>Grade</u>		<u>Collapse Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>	
(in)	(lb/ft)			(psi)	(bbl)	(in)	(in)	(ft)	(ft)	
2.375	4.700	J-55		8,100.000	6.570	1.995	2.910	0.000	1,700.000	

Products	
Plug 1	
From Depth (ft):	1700
To Depth (ft):	1340.8
Plug Type :	Abandonment
Acids/Blends/Fluids :	
Tail: 90 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 21.3 (bbl)	
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60	
+ 0.25 lb/sack of Polyflake (Preblend),	
+ 0.5 % of CaCl2 (Preblend),	
+ 0.3 % of CFR-2 (Preblend),	
+ 0.3 % of CFL-3 (Preblend),	
+ 0.4 % of CDF-4P (Preblend)	

Fluid & Cement Data					
Expected Cement Top:		--			
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 08, 2014 16:26

Units & Personnel										
<b>Units</b>										
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location			
201168	PICKUP	1 Ton				12/09/2014 06:30	12/09/2014 09:30			
740004	BODY JOB	C & A				12/09/2014 06:30	12/09/2014 09:30			
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	12/09/2014 06:30	12/09/2014 09:30			

Crew and Bonuses										
Employee	Start Shift	End Shift	Second Start Shift	Second End Shift						
Johnson, Quintin (23945)	12/09/2014 06:30	12/09/2014 09:30								
Laeger, Kacey (25046)	12/09/2014 06:30	12/09/2014 09:30								
Hall, Austin (28887)	12/09/2014 06:30	12/09/2014 09:30								

Treatment Reports & Remarks										
Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen						Print Date:	December 09, 2014			
Canada • USA • International						Service Report:	9201157			
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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	Dec 09,2014 06:30	Arrive On Location		--	--	--	--	0.00
		Remarks: arrived on time						
2	Dec 09,2014 06:40	Tailgate Meeting		--	--	--	--	0.00
		Remarks: talked about spotting trucks and rigging in						
3	Dec 09,2014 06:40	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: talked about site hazards and how to mitigate them						
4	Dec 09,2014 06:50	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: rigged in our trucks and 3rd party water						
5	Dec 09,2014 07:45	Rig in Complete		--	--	--	--	0.00
6	Dec 09,2014 07:50	Sign-off on Safety		--	--	--	--	0.00
		Remarks: signe their and our JSA						
7	Dec 09,2014 07:51	Safety Meeting		--	--	--	--	0.00
		Remarks: talked about the job scope and safety concerns						
8	Dec 09,2014 08:26	Start - Fluid	Water	0.50	100.0	--	1.00	1.00
		Remarks: filled lines for pressure test						
9	Dec 09,2014 08:28	Pressure Test Start	Water	0.00	2,800.0	--	0.00	1.00
		Remarks: pressure lines and they held						
10	Dec 09,2014 08:29	Pressure Test Complete		--	--	--	--	1.00
11	Dec 09,2014 08:30	Establish Circulation	Water	2.00	500.0	--	5.00	6.00
		Remarks: got good circulation						
12	Dec 09,2014 08:34	Mix Cement	0:1:0 Type III	2.00	100.0	--	21.30	27.30
		Remarks: mixed slurry at 14.8						
13	Dec 09,2014 09:43	Pump Displacement	Water	2.00	100.0	--	1.00	28.30
		Remarks: pump displacement for a balance plug						
14	Dec 09,2014 08:44	Stop		--	--	--	--	28.30
		Remarks: stop for wash up						
15	Dec 09,2014 08:45	Wash	Water	2.00	150.0	--	10.00	38.30
		Remarks: wash pump truck						
16	Dec 09,2014 09:10	Rig Out		--	--	--	--	38.30
		Remarks: rig out our trucks						
17	Dec 09,2014 09:20	Pre-Departure Meeting		--	--	--	--	38.30
		Remarks: journey mangement						
18	Dec 09,2014 09:30	Job Complete		--	--	--	--	38.30
		Remarks: do a complete walk around						
19	Dec 09,2014 09:46	Leave Location		--	--	--	--	38.30
		Remarks: go back to Sanjel yard						