



Pumping Service Report

9201399

Client Name Anadarko Petroleum Corporation	Well Name Northmoor Acres #1	Rig ECWS 7	Job Date April 27,2015	Call Sheet 1057407
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 24:T4N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Laeger, Kacey (25046)



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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):		---		@	--				
Open Hole									
<u>Size (in)</u>		<u>Excess (%)</u>		<u>TMD From (ft)</u>		<u>TMD To (ft)</u>		<u>TVD From (ft)</u>	
9.500		--		334.000		6,260.000		--	
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>
<u>(in)</u>	<u>(lb/ft)</u>		<u>(psi)</u>		<u>(bbl)</u>	<u>(in)</u>	<u>(in)</u>	<u>(ft)</u>	<u>(ft)</u>
2.875	6.500	J-55	7,680.000		35.510	2.441	3.668	0.000	6,135.000
2.375	4.700	J-55	8,100.000		0.480	1.995	2.910	6,135.000	6,260.000

Products									
Plug 1									
From Depth (ft):		6140							
To Depth (ft):		6260							
Plug Type :		Abandonment							
Acids/Blends/Fluids :									
Tail:		100 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 27 (bbl)							
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 60									
+ 0.5 % of CFR-2 (Preblend),									
+ 0.25 % of ASM-3 (Preblend)									

Fluid & Cement Data					
Expected Cement Top:		Depth (ft): 6140			
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	--	--	--	--	Mar 27, 2015 07:11

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>
201409	PICKUP	3/4 Ton				04/27/2015 10:45	04/27/2015 16:55
740018-1	BODY JOB	C & A				04/27/2015 10:45	04/27/2015 16:55
746502	BODY JOB	Baby Bulker				04/27/2015 10:45	04/27/2015 16:55
201009	PICKUP	1 Ton				04/27/2015 10:45	04/27/2015 16:55
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>				<u>Second Start Shift</u>	<u>Second End Shift</u>
Laeger, Kacey (25046)	04/27/2015 10:45	04/27/2015 16:55					
Lopez, Armando (29064)	04/27/2015 10:45	04/27/2015 16:55					
Barden, Sean (27711)	04/27/2015 10:45	04/27/2015 16:55					
Vitera, John (29843)	04/27/2015 10:45	04/27/2015 16:55					
Schroeder, Stephen (25442)	04/27/2015 10:45	04/27/2015 16:55					

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen	Print Date:	May 13, 2015
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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	Apr 27,2015 10:45	Arrive On Location		--	--	--	--	0.00
2	Apr 27,2015 10:50	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Apr 27,2015 11:00	Wait on Client (non Sanjel)		--	--	--	--	0.00
		Remarks: Wait on wire line						
4	Apr 27,2015 15:00	Rig in Complete		--	--	--	--	0.00
5	Apr 27,2015 15:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Held						
6	Apr 27,2015 15:44	Pressure Test Start	Water	1.00	100.0	--	1.00	1.00
		Remarks: Filled lines						
7	Apr 27,2015 15:46	Pressure Test Complete	Water	--	2,500.0	--	--	1.00
		Remarks: Lines held good						
8	Apr 27,2015 15:47	Establish Circulation	Water	3.00	800.0	--	5.00	6.00
		Remarks: Good circulation						
9	Apr 27,2015 15:50	Mix Cement	Thermal 35	3.30	700.0	--	27.00	33.00
		Remarks: 100sks of thermal 35 at 15.8lb/gal (WR 6.23 Y 1.51)						
10	Apr 27,2015 15:59	Displace Fluid	Water	3.00	200.0	--	32.00	65.00
		Remarks: Displace to balance plug						
11	Apr 27,2015 16:10	Finish Displacement		--	--	--	--	65.00
12	Apr 27,2015 16:15	Wash	Water	--	--	--	15.00	65.00
		Remarks: Wash pump unit						
13	Apr 27,2015 16:30	Tailgate Meeting		--	--	--	--	65.00
		Remarks: Revisit JSA						
14	Apr 27,2015 16:35	Rig Out		--	--	--	--	65.00
15	Apr 27,2015 16:47	Job Complete		--	--	--	--	65.00
16	Apr 27,2015 16:48	Pre-Departure Meeting		--	--	--	--	65.00
17	Apr 27,2015 16:55	Leave Location		--	--	--	--	65.00

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

Material Transfer Sheet Number

Material Transfer Sheet Number

57381



Pumping Service Report

9204193

Client Name Anadarko Petroleum Corporation	Well Name Northmoor Acres #1	Rig ECWS 7	Job Date April 28,2015	Call Sheet 1057445
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 24:T4N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Price, Ryan (25840)



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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): --- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
12.000	--	0.000	4,420.000	--	--

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500		--	--	--	--	0.000	4,420.000

Products

Plug 1

From Depth (ft): 3920
To Depth (ft): 4420
Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 340 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 70 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 50
+ 0.5 % of CFR-2 (Preblend),
+ 0.25 % of FMC (Preblend),
+ 0.5 % of LWA (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3920

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 27, 2015 07:11

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
739219	TRACTOR	Acid	449086	TRAILER	Utility Trailer	04/28/2015 11:00	04/28/2015 14:30
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	04/28/2015 11:00	04/28/2015 14:30
446092	TRAILER	Bulker	746092	TRACTOR	Tandem - Tractor	04/28/2015 11:00	04/28/2015 14:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Price, Ryan (25840)	04/28/2015 11:00	04/28/2015 14:30		
Joyner, Barlen (28603)	04/28/2015 11:00	04/28/2015 14:30		
Teegerstrom, Ty (27623)	04/28/2015 11:00	04/28/2015 14:30		
Molina, Alejandro (29922)	04/28/2015 11:00	04/28/2015 14:30		
Yates, William (29930)	04/28/2015 11:00	04/28/2015 14:30		



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	Apr 28,2015 11:00	Arrive On Location		--	--	--	--	0.00
2	Apr 28,2015 11:05	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Apr 28,2015 11:45	Rig in Complete		--	--	--	--	0.00
4	Apr 28,2015 11:55	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Apr 28,2015 12:12	Pressure Test Start		--	2,500.0	--	--	0.00
6	Apr 28,2015 12:13	Pressure Test Complete		--	--	--	--	0.00
7	Apr 28,2015 12:14	Establish Circulation	Water	2.00	250.0	--	5.00	5.00
8	Apr 28,2015 12:17	Pump Preflush	Water	2.00	400.0	--	20.00	25.00
Remarks: SMS well seal								
9	Apr 28,2015 12:29	Pump Spacer	Water	3.00	600.0	--	5.00	30.00
10	Apr 28,2015 12:31	Mix Cement	0-1-0 G	3.00	300.0	--	70.00	100.00
11	Apr 28,2015 12:56	Pump Displacement	Water	3.00	50.0	--	20.00	120.00
12	Apr 28,2015 13:05	Stop		--	--	--	--	120.00
13	Apr 28,2015 13:10	Wash		--	--	--	--	120.00
14	Apr 28,2015 13:45	Rig Out		--	--	--	--	120.00
15	Apr 28,2015 14:15	Job Complete		--	--	--	--	120.00
16	Apr 28,2015 14:25	Pre-Departure Meeting		--	--	--	--	120.00
17	Apr 28,2015 14:30	Leave Location		--	--	--	--	120.00

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

Material Transfer Sheet Number

Material Transfer Sheet Number

57395



Pumping Service Report

9203794

Client Name Anadarko Petroleum Corporation	Well Name Northmoor Acres #1	Rig ECWS 7	Job Date April 29,2015	Call Sheet 1057467
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 24:T4N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Douglass, Brian (23898)

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)
12.000	--	0.000	134.000	--	--

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		--	--	--	--	--	0.0	334.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	6.500		--	--	--	--	0.000	950.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 950

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 325 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 80 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 76

+ 0.5 % of CaCl₂ (Preblend),

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of CFL-3 (Preblend),

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

+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 27, 2015 07:11



Pumping Service Report

9203794

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>
201273	PICKUP	3/4 Ton				04/29/2015 10:00	04/29/2015 14:15
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	04/29/2015 10:00	04/29/2015 14:15
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	04/29/2015 10:00	04/29/2015 14:15
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>	<u>Second Start Shift</u>		<u>Second End Shift</u>	
Douglass, Brian (23898)	04/29/2015 10:00		04/29/2015 14:15				
Teegerstrom, Ty (27623)	04/29/2015 10:00		04/29/2015 14:15				
Melgarejo Herrera, Eduardo (26606)	04/29/2015 10:00		04/29/2015 14:15				
Vitera, John (29843)	04/29/2015 10:00		04/29/2015 14:15				



Pumping Service Report

9203794

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	Apr 29,2015 10:00	Arrive On Location		--	--	--	--	0.00
2	Apr 29,2015 10:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Apr 29,2015 11:50	Rig in Complete		--	--	--	--	0.00
4	Apr 29,2015 12:05	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Apr 29,2015 12:20	Pressure Test Start		--	1,000.0	--	--	0.00
6	Apr 29,2015 12:21	Pressure Test Complete		--	--	--	--	0.00
7	Apr 29,2015 12:23	Pump	Water	2.00	50.0	--	7.00	0.00
8	Apr 29,2015 12:27	Pump	Water	2.00	50.0	--	10.00	0.00
Remarks: with sapp								
9	Apr 29,2015 12:32	Pump	Water	2.00	50.0	--	5.00	0.00
10	Apr 29,2015 12:36	Pump	0:1:0 Type III	2.00	250.0	--	80.00	0.00
Remarks: WR:6.31 Density: 14.8 Yield: 1.33 Mix H2O: 49								
11	Apr 29,2015 13:20	Displace Fluid	Water	1.00	300.0	--	0.50	0.00
12	Apr 29,2015 13:30	Rig Out		--	--	--	--	0.00
13	Apr 29,2015 14:00	Job Complete		--	--	--	--	0.00
14	Apr 29,2015 14:10	Pre-Departure Meeting		--	--	--	--	0.00
15	Apr 29,2015 14:15	Leave Location		--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 1

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

57406

57405