



Pumping Service Report

9201448

Client Name Anadarko Petroleum Corporation	Well Name Reynolds 7 - 24	Rig Ensign Drilling Inc. 319	Job Date February 10,2015	Call Sheet 1055008
Client Representative Mr. Ron Smith	Surface Well Location SW NE Sec 24:T3N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Laeger, Kacey (25046)

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	J-55	4,960.0	5,350.0	112.84	4.000	5.000	0.0	7,260.0

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	4.700	J-55	8,100.000	30.000	1.995	2.910	0.000	7,759.000

Products

Plug 1

From Depth (ft): 6569

To Depth (ft): 7260

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 40 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 10.7 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 60

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of ASM-3 (Preblend)

Plug 2

From Depth (ft): 3798

To Depth (ft): 4320

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 40 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 8.1 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 60

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3798

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jan 15, 2015 18:10



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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Bridge Plug	7,260.000	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>
449039	TRAILER	Utility Trailer	201009	PICKUP	1 Ton	02/10/2015 10:30	02/10/2015 15:10
445026	TRAILER	SCM Twin	745026	TRACTOR	Tandem - Tractor	02/10/2015 10:30	02/10/2015 15:10
446113	TRAILER	Bulker	746113	TRACTOR	Tandem - Tractor	02/10/2015 10:30	02/10/2015 15:10
200918	PICKUP	3/4 Ton				02/10/2015 10:30	02/10/2015 15:10

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)	02/10/2015 10:30	02/10/2015 15:10		
Morris, Theodore (26527)	02/10/2015 10:30	02/10/2015 15:10		
Dunsbergen, Scott (29737)	02/10/2015 10:30	02/10/2015 15:10		
Molina, Alejandro (29922)	02/10/2015 10:30	02/10/2015 15:10		
Schroeder, Stephen (25442)	02/10/2015 10:30	02/10/2015 15:10		

Treatment Reports & Remarks



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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	Feb 10,2015 10:40	Arrive On Location		--	--	--	--	0.00
2	Feb 10,2015 10:45	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Held						
3	Feb 10,2015 11:10	Rig in Complete		--	--	--	--	0.00
4	Feb 10,2015 11:20	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Held						
5	Feb 10,2015 12:10	Pressure Test Start	Water	1.00	70.0	--	1.00	1.00
		Remarks: Filled lines						
6	Feb 10,2015 12:12	Pressure Test Complete	Water	--	2,500.0	--	--	1.00
		Remarks: Lines held good						
7	Feb 10,2015 12:14	Establish Circulation	Water	1.50	250.0	--	10.00	11.00
		Remarks: Good circulation						
8	Feb 10,2015 12:20	Mix Cement	Thermal 35	2.00	500.0	--	10.70	21.70
		Remarks: 40sks of thermal 35 at 15.8lb/gal						
9	Feb 10,2015 12:25	Displace Fluid	Water	2.00	0.0	--	25.10	46.80
		Remarks: Displace to balance plug						
10	Feb 10,2015 12:38	Balance Plug		--	--	--	--	46.80
11	Feb 10,2015 12:39	Job Complete		--	--	--	--	46.80
12	Feb 10,2015 12:40	Wait On Instructions		--	--	--	--	46.80
		Remarks: Wait on rig to pull up tubing						
13	Feb 10,2015 13:40	Pressure Test	Water	--	2,500.0	--	1.00	1.00
		Remarks: Lines held good						
14	Feb 10,2015 13:43	Establish Circulation	Water	1.00	50.0	--	9.00	10.00
		Remarks: Good circulation						
15	Feb 10,2015 13:53	Mix Cement	0-1-0 G	2.00	100.0	--	8.10	18.10
		Remarks: 40sks of 0:1:0 G at 15.8 lb/gal						
16	Feb 10,2015 13:57	Displace Fluid	Water	2.00	0.0	--	14.50	32.60
		Remarks: Dispalce to balance plug						
17	Feb 10,2015 14:06	Balance Plug		--	--	--	--	32.60
18	Feb 10,2015 14:10	Job Complete		--	--	--	--	32.60
19	Feb 10,2015 14:15	Wash		--	--	--	--	32.60
		Remarks: Wash pump unit						
20	Feb 10,2015 14:35	Tailgate Meeting		--	--	--	--	32.60
		Remarks: Held Revisit JSA						
21	Feb 10,2015 14:45	Rig Out		--	--	--	--	32.60
22	Feb 10,2015 15:00	Pre-Departure Meeting		--	--	--	--	32.60
		Remarks: Held						
23	Feb 10,2015 15:10	Leave Location		--	--	--	--	32.60



Pumping Service Report

9201002

Client Name Anadarko Petroleum Corporation	Well Name Reynolds 7 - 24	Rig Ensign Drilling Inc. 319	Job Date February 11, 2015	Call Sheet 1055102
Client Representative Mr. Luke Eppel	Surface Well Location SW NE Sec 24:T3N:R68W	Down Hole Well Location	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):	--- @ --

Products

Plug 1

From Depth (ft):

To Depth (ft):

Plug Type : N/A

Acids/Blends/Fluids :

Tail: 550 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 130 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 80

+ 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	--	8.400	--	--	Jan 15, 2015 18:10

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200848	PICKUP	3/4 Ton				02/11/2015 14:00	02/11/2015 17:10
740004	BODY JOB	C & A				02/11/2015 14:00	02/11/2015 17:10
446113	TRAILER	Bulker	746113	TRACTOR	Tandem - Tractor	02/11/2015 14:00	02/11/2015 17:10

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Martin, David (20339)	02/11/2015 14:00	02/11/2015 17:10		
Allen, Mark (29987)	02/11/2015 14:00	02/11/2015 17:10		
Davila, Israel (28152)	02/11/2015 14:00	02/11/2015 17:10		
Keeton, Derek (26192)	02/11/2015 14:00	02/11/2015 17:10		
Paiu, Vladislav (28091)	02/11/2015 14:00	02/11/2015 17:10		
Waltman, Jared (25370)	02/11/2015 14:00	02/11/2015 17:10		



Pumping Service Report

9201002

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	Feb 11,2015 14:00	Arrive On Location		--	--	--	--	0.00
2	Feb 11,2015 14:02	Tailgate Meeting		--	--	--	--	0.00
3	Feb 11,2015 14:05	Rig In		--	--	--	--	0.00
4	Feb 11,2015 14:20	Safety Meeting		--	--	--	--	0.00
5	Feb 11,2015 14:30	Sign-off on Safety		--	--	--	--	0.00
6	Feb 11,2015 14:40	STEACS Briefing		--	--	--	--	0.00
7	Feb 11,2015 14:56	Pressure Test	Water	--	2,900.0	--	--	0.00
8	Feb 11,2015 15:00	Forward Circulate	Water	3.00	100.0	--	10.00	10.00
9	Feb 11,2015 15:05	Jet Mix	0:1:0 Type III	5.00	400.0	--	130.00	140.00
10	Feb 11,2015 16:21	Displace Fluid	Water	1.00	100.0	--	2.00	142.00
11	Feb 11,2015 16:30	Rig Out		--	--	--	--	142.00
12	Feb 11,2015 16:40	Job Complete		--	--	--	--	142.00
13	Feb 11,2015 17:00	Pre-Departure Meeting		--	--	--	--	0.00
14	Feb 11,2015 17:10	Leave Location		--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 2

Temperature (°F) : 80

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

55503