



**Pumping
Service Report**

9193379

Client Name Anadarko Petroleum Corporation	Well Name WN-HSR RAnd 11-14A	Rig	Job Date July 09,2014	Call Sheet 1043897
Client Representative Logan Lehnart	Surface Well Location NE SW Sec 14:T3N:R66W	Down Hole Well Location	Job Type Bradenhead Squeeze	

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 (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	--	8.097	9.625	0.0	--
4.500	11.600	J-55	4,960.0	5,350.0	108.64	4.000	5.000	0.0	6,990.0

Products

Plug 1

From Depth (ft): 5115

To Depth (ft): 5035

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 285 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 58.4 (bbl)

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

Fluid & Cement Data

Expected Cement Top: Depth (ft): 5035

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jul 09, 2014 07:02



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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>
200868	PICKUP	3/4 Ton				07/09/2014 16:40	07/09/2014 20:15
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	07/09/2014 16:40	07/09/2014 20:15
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	07/09/2014 16:40	07/09/2014 20:15

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Maguire, Matthew	07/09/2014 16:40	07/09/2014 20:15		
Prigmore, Dominic	07/09/2014 16:40	07/09/2014 20:15		
Durham, Adrian	07/09/2014 16:40	07/09/2014 20:15		
Meisner, Jeremy	07/09/2014 16:40	07/09/2014 20:15		
Lindsay, Kevin	07/09/2014 16:40	07/09/2014 20:15		
Svoboda, Miloslav	07/09/2014 16:40	07/09/2014 20:15		

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	Jul 09,2014 16:40	Arrive On Location		--	--	--	--	0.00
2	Jul 09,2014 16:45	Tailgate Meeting		--	--	--	--	0.00
3	Jul 09,2014 17:00	Rig In		--	--	--	--	0.00
4	Jul 09,2014 17:20	Safety Meeting		--	--	--	--	0.00
5	Jul 09,2014 17:30	Sign-off on Safety		--	--	--	--	0.00
6	Jul 09,2014 17:37	Start - Fluid	Water	1.50	800.0	--	1.00	1.00
		Remarks: Filled lines.						
7	Jul 09,2014 17:42	Pressure Test Lines		--	1,800.0	--	--	1.00
		Remarks: All lines held pressure.						
8	Jul 09,2014 17:48	Pump Preflush	Water	2.00	870.0	--	20.00	21.00
		Remarks: SMS						
9	Jul 09,2014 17:55	Pump Spacer		2.00	900.0	--	5.00	26.00
		Remarks: Fresh water spacer.						
10	Jul 09,2014 18:00	Mix Cement	0-1-0 G	2.60	890.0	--	58.40	84.40
11	Jul 09,2014 18:26	Drop Plug		--	--	--	--	84.40
12	Jul 09,2014 18:27	Displace Fluid	Water	4.00	1,290.0	--	78.00	162.40
13	Jul 09,2014 19:12	Stop		--	--	--	--	162.40
14	Jul 09,2014 19:20	Wash	Water	1.50	100.0	--	20.00	162.40
15	Jul 09,2014 19:50	Rig Out		--	--	--	--	162.40
16	Jul 09,2014 19:55	Pre-Departure Meeting		--	--	--	--	162.40
17	Jul 09,2014 19:57	Job Complete		--	--	--	--	162.40
18	Jul 09,2014 19:59	Leave Location		--	--	--	--	162.40



**Pumping
Service Report**

9193703

Client Name Anadarko Petroleum Corporation	Well Name WN-HSR Rand 11-14A	Rig	Job Date July 10, 2014	Call Sheet 1043933
Client Representative Logan Lehnart	Surface Well Location NE SW Sec 14:T3N:R66W	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)
8.625	24.000	J-55	1,370.0	2,950.0	82.79	8.097	9.625	0.0	1,300.0
4.500	11.600	J-55	4,960.0	5,350.0	20.21	4.000	5.000	0.0	1,300.0

Products

Plug 1

From Depth (ft): 300

To Depth (ft): 1300

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 190 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 45 (bbl)
Water Temperature(°F) = 70 , Bulk Temperature(°F) = 80 , 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)

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	--	8.400	--	--	Jul 10, 2014 06:33

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	4.500	Sanjel



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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>
201025	PICKUP	1 Ton				07/10/2014 08:30	07/10/2014 11:00
740069	BODY JOB	C & A				07/10/2014 08:30	07/10/2014 11:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	07/10/2014 08:30	07/10/2014 11:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Schneider, Patrick	07/10/2014 08:30	07/10/2014 11:00		
Laeger, Kacey	07/10/2014 08:30	07/10/2014 11:00		
Gibson, Bruce	07/10/2014 08:30	07/10/2014 11:00		
Curtner, Jerry	07/10/2014 08:30	07/10/2014 11:00		

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	Jul 10, 2014 08:30	Arrive On Location	---	--	--	--	--	0.00
2	Jul 10, 2014 08:35	Tailgate Meeting	---	--	--	--	--	0.00
3	Jul 10, 2014 08:45	Rig In	---	--	--	--	--	0.00
4	Jul 10, 2014 08:55	Safety Meeting	---	--	--	--	--	0.00
5	Jul 10, 2014 09:05	Sign-off on Safety	---	--	--	--	--	0.00
6	Jul 10, 2014 09:10	Establish Circulation	Water	2.00	50.0	--	1.00	1.00
7	Jul 10, 2014 09:12	Pressure Test	Water	--	1,500.0	--	--	1.00
		Remarks: good pressure test						
8	Jul 10, 2014 09:14	Pump Preflush	Water	2.00	50.0	--	5.00	6.00
		Remarks: fresh water preflush						
9	Jul 10, 2014 09:16	Mix Cement	0:1:0 Type III	3.00	50.0	--	45.00	51.00
		Remarks: tail cement @ 14.8 ppg yield = 1.33 h2o req = 6.31						
10	Jul 10, 2014 09:34	Drop Plug	---	--	0.0	--	--	51.00
11	Jul 10, 2014 09:35	Displace Plug	Water	3.00	325.0	--	19.00	70.00
		Remarks: displace to 50' above holes						
12	Jul 10, 2014 09:43	Finish Displacement	Water	0.00	150.0	--	--	70.00
13	Jul 10, 2014 09:45	Rig Out	---	--	--	--	--	0.00
14	Jul 10, 2014 10:30	Job Complete	---	--	--	--	--	0.00
15	Jul 10, 2014 10:45	Pre-Departure Meeting	---	--	--	--	--	0.00
16	Jul 10, 2014 11:00	Leave Location	---	--	--	--	--	0.00



**Pumping
Service Report**

9193417

Client Name Anadarko Petroleum Corporation	Well Name WN-HSR Rand 11-14A	Rig Ensign Drilling Inc. 320	Job Date July 16, 2014	Call Sheet 1044178
Client Representative Logan Lehnart	Surface Well Location NE NW Sec 14:T3N:R66W	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 (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	11.600	---	--	--	--	--	--	--	--

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
1.050	2.300	---	--	--	--	--	0.000	700.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 700

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 130 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 30.8 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75

- + 0.25 lb/sack of Polyflake (Preblend),
- + 0.5 % of CaCl₂ (Preblend),
- + 0.3 % of CFR-2 (Preblend),
- + 0.3 % of CFL-3 (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	--	--	Jul 15, 2014 16:44



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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
201191	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	07/16/2014 08:15	07/16/2014 10:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	07/16/2014 08:15	07/16/2014 10:30
746508	BODY JOB	Baby Bulker				07/16/2014 08:15	07/16/2014 10:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Douglass, Brian	07/16/2014 08:16	07/16/2014 10:30		
Doran, Benjamin	07/16/2014 08:16	07/16/2014 10:30		
Schimming, Michael	07/16/2014 08:16	07/16/2014 10:30		
Paiu, Vladislav	07/16/2014 08:16	07/16/2014 10:30		

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	Jul 16, 2014 08:15	Arrive On Location	---	--	--	--	--	0.00
2	Jul 16, 2014 08:20	Tailgate Meeting	---	--	--	--	--	0.00
3	Jul 16, 2014 08:30	Rig In	---	--	--	--	--	0.00
4	Jul 16, 2014 08:55	Safety Meeting	---	--	--	--	--	0.00
5	Jul 16, 2014 09:00	Sign-off on Safety	---	--	--	--	--	0.00
6	Jul 16, 2014 09:11	Establish Circulation	Water	1.00	44.0	--	1.00	1.00
		Remarks: fill lines						
7	Jul 16, 2014 09:12	Pressure Test	---	--	1,000.0	--	--	1.00
8	Jul 16, 2014 09:14	Establish Circulation	Water	1.40	50.0	--	3.00	4.00
9	Jul 16, 2014 09:20	Mix Cement	0:1:0 Type III	1.25	130.0	--	30.80	34.80
10	Jul 16, 2014 09:40	Pump Displacement	Water	1.25	10.0	--	1.00	35.80
11	Jul 16, 2014 09:42	Stop	---	--	--	--	--	35.80
12	Jul 16, 2014 09:44	Rig Out	---	--	--	--	--	35.80
13	Jul 16, 2014 10:15	Job Complete	---	--	--	--	--	35.80
14	Jul 16, 2014 10:20	Pre-Departure Meeting	---	--	--	--	--	35.80
15	Jul 16, 2014 10:30	Leave Location	---	--	--	--	--	35.80

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

46254



**Pumping
Service Report**

9193498

Client Name Anadarko Petroleum Corporation	Well Name WN HSR Rand 11-14A	Rig	Job Date July 18, 2014	Call Sheet 1044336
Client Representative Mr. Logan Lehnert	Surface Well Location NE SW Sec 14:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	

Well Profile

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	20.21	4.000	5.000	0.0	1,300.0

Products

Plug 1

From Depth (ft): 1300

To Depth (ft): 5115

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 100 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 23.7 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 89

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jul 18, 2014 13:59

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200868	PICKUP	3/4 Ton				07/18/2014 15:00	07/18/2014 19:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	07/18/2014 15:00	07/18/2014 19:00
746502	BODY JOB	Baby Bulker				07/18/2014 15:00	07/18/2014 19:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Contreras, Bennie	07/18/2014 15:00	07/18/2014 19:00		
Cox, Brandon	07/18/2014 15:00	07/18/2014 19:00		
Barden, Sean	07/18/2014 15:00	07/18/2014 19:00		
Phillips, James	07/18/2014 15:00	07/18/2014 19:00		



**Pumping
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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	Jul 18, 2014 15:00	Arrive On Location	---	--	--	--	--	0.00
		Remarks: Arrived						
2	Jul 18, 2014 15:10	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Talked about spotting trucks and rigging in.						
3	Jul 18, 2014 15:20	Rig In	---	--	--	--	--	0.00
		Remarks: Rig in.						
4	Jul 18, 2014 15:50	Safety Meeting	---	--	--	--	--	0.00
		Remarks: Muster, 911 caller nearest med., job scope.						
5	Jul 18, 2014 16:18	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: Sign all JSAs.						
6	Jul 18, 2014 16:20	Pressure Test	Water	--	3,000.0	--	--	0.00
		Remarks: Pressure test 3000 psi						
7	Jul 18, 2014 17:25	Mix Cement	0:1:0 Type III	2.00	1,000.0	--	23.70	23.70
		Remarks: Mix and pump 100 SKs of cement @ 14.8 lb/gal, Mud was scaled						
8	Jul 18, 2014 17:43	Stop	---	--	--	--	--	23.70
		Remarks: Stopped and dropped plug.						
9	Jul 18, 2014 17:45	Displace Fluid	Water	3.00	1,200.0	--	19.50	43.20
		Remarks: Displaced 19.5 BBLs of water.						
10	Jul 18, 2014 17:50	Stop	---	--	820.0	--	--	43.20
		Remarks: Stopped and shut in wellhead valve. Then rigged off.						
11	Jul 18, 2014 17:55	Wash	---	2.00	170.0	--	20.00	63.20
		Remarks: Wash mix system and runbacks on triplexes.						
12	Jul 18, 2014 18:45	Rig Out	---	--	--	--	--	63.20
		Remarks: Rig down.						
13	Jul 18, 2014 18:46	Job Complete	---	--	--	--	--	63.20
		Remarks: Job complete.						
14	Jul 18, 2014 18:49	Pre-Departure Meeting	---	--	--	--	--	63.20
		Remarks: Journey management.						
15	Jul 18, 2014 19:00	Leave Location	---	--	--	--	--	63.20
		Remarks: Leave						

Did Float Hold: Not Applicable

Fluid Returns : No

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

46280