



Pumping Service Report

9206626

Client Name Anadarko Petroleum Corporation	Well Name HSR B/R B 4-21	Rig ECWS 7	Job Date July 22, 2015	Call Sheet 1059354
Client Representative Mr. Dave Donoho	Surface Well Location NW NW Sec 21:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Doran, Benjamin (27933)

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		--	--	--	--	--	0.0	6,800.0

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	26.270	1.995	2.910	0.000	6,795.000

Products

Plug 1

From Depth (ft): 6800

To Depth (ft): 6284

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 30 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 8 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6284

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Bridge Plug	6,800.000	Third Party



Pumping Service Report

9206626

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				07/22/2015 11:30	07/22/2015 13:50
740018	BODY JOB	C & A				07/22/2015 11:30	07/22/2015 13:50
746506	BODY JOB	Baby Bulker				07/22/2015 11:30	07/22/2015 13:50

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Doran, Benjamin (27933)	07/22/2015 11:30	07/22/2015 13:50		
Joyner, Barlen (28603)	07/22/2015 11:30	07/22/2015 13:50		
Davila, Israel (28152)	07/22/2015 11:30	07/22/2015 13:50		
Martinez, Fernando (28421)	07/22/2015 11:30	07/22/2015 13:50		

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 22, 2015 11:30	Arrive On Location		--	--	--	--	0.00
2	Jul 22, 2015 11:35	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jul 22, 2015 12:05	Rig in Complete		--	--	--	--	0.00
4	Jul 22, 2015 12:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jul 22, 2015 12:35	Pressure Test Start		1.00	150.0	--	1.00	0.00
		Remarks: Fill Lines						
6	Jul 22, 2015 12:37	Pressure Test Complete		--	2,500.0	--	--	0.00
		Remarks: All Lines held pressure						
7	Jul 22, 2015 12:38	Pump Spacer	Water	2.00	200.0	--	5.00	5.00
8	Jul 22, 2015 12:41	Batch Mix	Thermal 35	6.00	280.0	--	--	5.00
		Remarks: 30 Sacks @ 15.8 PPG, 1.51 Yield, 6.23 Water Req, 127.4 Sack Weight.						
9	Jul 22, 2015 12:54	Pump	Thermal 35	2.00	600.0	--	8.00	13.00
10	Jul 22, 2015 12:57	Displace Fluid		2.70	650.0	--	24.10	37.10
11	Jul 22, 2015 13:05	Wash		--	--	--	15.00	52.10
12	Jul 22, 2015 13:20	Rig Out		--	--	--	--	52.10
13	Jul 22, 2015 13:40	Job Complete		--	--	--	--	52.10
14	Jul 22, 2015 13:50	Leave Location		--	--	--	--	52.10

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

65244



Pumping Service Report

9204373

Client Name Anadarko Petroleum Corporation	Well Name HSR B/R B 4-21	Rig ECWS 7	Job Date July 23, 2015	Call Sheet 1059375
Client Representative Mr. Dave Donoho	Surface Well Location NW NW Sec 21:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Lopez, Armando (29064)

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		--	--	--	--	--	0.0	4,400.0

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		--	--	--	--	0.000	3,960.000

Products

Plug 1

From Depth (ft): 7307

To Depth (ft): 4310

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 165 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 33.8 (bbl)

Water Temperature(°F) = 70 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 0.5 % of CFR-2 (Preblend),

+ 0.2 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3707

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	3,900.000	Third Party



Pumping Service Report

9204373

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>
201191	PICKUP	1 Ton				07/23/2015 09:30	07/23/2015 12:00
740018	BODY JOB	C & A				07/23/2015 09:30	07/23/2015 12:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	07/23/2015 09:30	07/23/2015 12:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Lopez, Armando (29064)	07/23/2015 09:30	07/23/2015 12:00					
Cheal, Samuel (28315)	07/23/2015 09:30	07/23/2015 12:00					
Phillips, James (23627)	07/23/2015 09:30	07/23/2015 12:00					
Schroeder, Stephen (25442)	07/23/2015 09:30	07/23/2015 12:00					



Pumping Service Report

9204373

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 23,2015 09:30	Arrive On Location		--	--	--	--	0.00
2	Jul 23,2015 09:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jul 23,2015 10:05	Rig in Complete		--	--	--	--	0.00
4	Jul 23,2015 10:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jul 23,2015 10:25	Start - Fluid	Water	2.00	600.0	--	1.00	1.00
		Remarks: Fill lines						
6	Jul 23,2015 10:26	Pressure Test Start		--	--	--	--	0.00
7	Jul 23,2015 10:27	Pressure Test Complete		--	--	--	--	0.00
8	Jul 23,2015 10:27	Pump Spacer	Water	2.40	900.0	--	20.00	21.00
		Remarks: Well Seal						
9	Jul 23,2015 10:33	Pump Spacer	Water	2.40	900.0	--	5.00	26.00
10	Jul 23,2015 10:35	Mix Cement	0-1-0 G	2.40	600.0	--	33.80	59.80
		Remarks: Pumped 165 bbls Density 15.8 Yield 1.15 Water 4.98. Scale weight was 15.8						
11	Jul 23,2015 10:48	Displace Fluid	Water	2.80	500.0	--	12.30	72.10
		Remarks: Left 3 bbls on top of retainer						
12	Jul 23,2015 10:55	Stop		--	--	--	--	0.00
13	Jul 23,2015 11:00	Wash		--	--	--	--	0.00
14	Jul 23,2015 11:20	Rig Out		--	--	--	--	0.00
15	Jul 23,2015 11:45	Job Complete		--	--	--	--	0.00
16	Jul 23,2015 11:50	Pre-Departure Meeting		--	--	--	--	0.00
17	Jul 23,2015 12:00	Leave Location		--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Mud

Volume (bbl) : 72

Temperature (°F) : 80

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

65249

65250



Pumping Service Report

9206088

Client Name Anadarko Petroleum Corporation	Well Name HSR B/R B 4-21	Rig ECWS 7	Job Date July 24, 2015	Call Sheet 1059397
Client Representative Mr. Dave Donoho	Surface Well Location NW NW Sec 21:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hall, Andrew J (25267)

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)
8.500	20.000	0.000	900.000	--	--

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	34.77	8.097	9.625	0.0	546.0
4.500	11.600	J-55	4,960.0	5,350.0	1.55	4.000	5.000	800.0	900.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.375	4.700	J-55	8,100.000	3.480	1.995	2.910	0.000	900.000

Products

Plug 1

From Depth (ft): 346

To Depth (ft): 900

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 155 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 36.7 (bbl)

Water Temperature(°F) = 70 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 1 % of CaCl₂ (Preblend),

+ 0.3 % of CFL-3 (Preblend),

+ 0.3 % of CFR-2 (Preblend),

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

+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 346

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11



Pumping Service Report

9206088

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				07/24/2015 10:30	07/24/2015 13:00
740067	BODY JOB	C & A				07/24/2015 10:30	07/24/2015 13:00
746506	BODY JOB	Baby Bulker				07/24/2015 10:30	07/24/2015 13:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J (25267)	07/24/2015 10:30	07/24/2015 13:00		
Spirek, Matthew (26921)	07/24/2015 10:30	07/24/2015 13:00		
Hall, Austin (28887)	07/24/2015 10:30	07/24/2015 13:00		
Phillips, James (23627)	07/24/2015 10:30	07/24/2015 13:00		

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 24,2015 10:30	Arrive On Location		--	--	--	--	0.00
2	Jul 24,2015 10:45	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jul 24,2015 11:05	Rig in Complete		--	--	--	--	0.00
4	Jul 24,2015 11:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jul 24,2015 11:30	Pressure Test Start	Water	1.00	3,000.0	--	2.00	2.00
6	Jul 24,2015 11:35	Pressure Test Complete		--	--	--	--	2.00
7	Jul 24,2015 11:36	Pump Preflush	Water	3.50	300.0	--	10.00	12.00
		Remarks: SAPP						
8	Jul 24,2015 11:38	Pump Spacer	Water	3.50	300.0	--	5.00	17.00
9	Jul 24,2015 11:41	Pump	0:1:0 Type III	3.50	500.0	--	36.70	53.70
10	Jul 24,2015 11:50	Displace Fluid	Water	3.50	500.0	--	1.50	55.20
11	Jul 24,2015 12:15	Rig Out		--	--	--	--	55.20
12	Jul 24,2015 12:45	Job Complete		--	--	--	--	55.20
		Remarks: AAR						
13	Jul 24,2015 13:00	Leave Location		--	--	--	--	55.20

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

65257

65258