



Pumping Service Report

9199329

Client Name Anadarko Petroleum Corporation	Well Name Henrickson Amoco 41-19A	Rig Concord Well Servicing 6	Job Date December 23, 2014	Call Sheet 1052518
Client Representative Mr. Derrick Powell	Surface Well Location NE NE Sec 19:T3N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Schneider, Patrick (24093)

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):		--- @ --						
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	28.760	1.995	2.910	0.000	7,438.000

Products	
Plug 1	
From Depth (ft):	7140
To Depth (ft):	7764
Plug Type :	Abandonment
Acids/Blends/Fluids :	
Plug: 50 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 14.8 (bbl)	
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 30 , Slurry Temperature(°F) = 55	
+ 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): 7140			
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	--	--	--	--	Oct 08, 2014 16:26

Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201274	PICKUP	3/4 Ton				12/23/2014 06:30	12/23/2014 10:45
740067	BODY JOB	C & A				12/23/2014 06:30	12/23/2014 10:45
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	12/23/2014 06:30	12/23/2014 10:45
201114	PICKUP	3/4 Ton				12/23/2014 06:30	12/23/2014 10:45
Crew and Bonuses							
Employee	Start Shift	End Shift			Second Start Shift	Second End Shift	
Schneider, Patrick (24093)	12/23/2014 06:30	12/23/2014 10:45					
Bailey, Steven (29186)	12/23/2014 06:30	12/23/2014 10:45					
Paiu, Vladislav (28091)	12/23/2014 06:30	12/23/2014 10:45					
Joyner, Barlen (28603)	12/23/2014 06:30	12/23/2014 10:45					

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 23,2014 06:30	Arrive On Location		--	--	--	--	0.00
2	Dec 23,2014 06:35	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedures						
3	Dec 23,2014 07:05	Rig In		--	--	--	--	0.00
4	Dec 23,2014 07:25	Rig in Complete		--	--	--	--	0.00
5	Dec 23,2014 07:30	N/A		--	--	--	--	0.00
		Remarks: when we went to prime up the pump we had no air pressure so we had to fix the problem						
6	Dec 23,2014 08:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
7	Dec 23,2014 09:14	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
8	Dec 23,2014 09:16	Pressure Test Start	Water	--	3,000.0	--	--	1.00
9	Dec 23,2014 09:18	Pressure Test Complete	Water	--	--	--	--	1.00
		Remarks: good pressure test						
10	Dec 23,2014 09:18	Pump Preflush	Water	2.50	75.0	--	7.00	8.00
		Remarks: fresh water preflush						
11	Dec 23,2014 09:24	Batch Mix	1-1-0 G	--	--	--	--	8.00
		Remarks: batch mixed 50 sks to 13.5 ppg						
12	Dec 23,2014 09:36	Pump	1-1-0 G	2.50	75.0	--	14.80	22.80
		Remarks: plug cement @ 13.5 ppg yield = 1.66 h2o req = 7.92						
13	Dec 23,2014 09:42	Drop Plug	Water	--	0.0	--	--	22.80
14	Dec 23,2014 09:47	Displace Fluid	Water	3.00	75.0	--	27.50	50.30
		Remarks: pressured up to 1,500 psi at end of displacement						
15	Dec 23,2014 09:56	Finish Displacement	Water	--	--	--	--	50.30
16	Dec 23,2014 10:00	Tailgate Meeting		--	--	--	--	50.30
		Remarks: revisited JSA						
17	Dec 23,2014 10:10	Rig Out		--	--	--	--	50.30
18	Dec 23,2014 10:20	Wash	Water	--	--	--	20.00	50.30
		Remarks: washed pump and lines						
19	Dec 23,2014 10:30	Job Complete		--	--	--	--	50.30
20	Dec 23,2014 10:35	Pre-Departure Meeting		--	--	--	--	50.30
21	Dec 23,2014 10:45	Leave Location		--	--	--	--	50.30

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

55345



Pumping Service Report

9199297

Client Name Anadarko Petroleum Corporation	Well Name Henrickson Amoco 41-19A	Rig Concord Well Servicing 6	Job Date January 06, 2015	Call Sheet 1052901
Client Representative Mr. Derrick Powell	Surface Well Location NE NE Sec 19:T3N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Contreras, Bennie (23469)

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)
10.750	--	4,120.000	4,515.000	--	--

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	11.600	J-55	4,960.0	5,350.0	70.17	4.000	5.000	0.0	4,515.0
8.625	24.000	J-55	1,370.0	2,950.0	29.68	8.097	9.625	0.0	466.0

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	J-55	8,100.000	16.150	1.995	2.910	0.000	4,176.000

Products

Plug 1

From Depth (ft): 3983

To Depth (ft): 4515

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 260 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 53.3 (bbl)

Water Temperature(°F) = 45 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 58

+ 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: --

Wellbore Fluid

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



Pumping Service Report

9199297

Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Cement Retainer	4,176.000	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>
200868	PICKUP	3/4 Ton	449093	TRAILER	Utility Trailer	01/06/2015 08:00	01/06/2015 13:36
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	01/06/2015 08:00	01/06/2015 13:36
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	01/06/2015 08:00	01/06/2015 13:36

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Contreras, Bennie (23469)	01/06/2015 08:00	01/06/2015 15:00		
Joyner, Barlen (28603)	01/06/2015 08:00	01/06/2015 15:00		
Svoboda, Miloslav (28226)	01/06/2015 08:00	01/06/2015 15:00		
Peterson, Ryan (28158)	01/06/2015 08:00	01/06/2015 15:00		

**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	Jan 06,2015 08:00	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived						
2	Jan 06,2015 08:20	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Talked about spotting trucks and rigging in.						
3	Jan 06,2015 10:30	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete.						
4	Jan 06,2015 11:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, 911 caller, Nearest med., Amb. and driver, Location safety equipt., Job scope.						
5	Jan 06,2015 11:55	Pressure Test Start	Water	--	3,500.0	--	--	0.00
		Remarks: Pressure test 3500 psi.						
6	Jan 06,2015 11:57	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Pressure test complete.						
7	Jan 06,2015 11:58	Establish Circulation	Water	3.00	1,000.0	--	15.00	15.00
		Remarks: 15 BBLs of water to establish circulation						
8	Jan 06,2015 12:05	Pump Preflush	Water	3.50	1,200.0	--	20.00	35.00
		Remarks: 20 BBLs of SMS.						
9	Jan 06,2015 12:12	Pump Spacer	Water	1.00	1,300.0	--	5.00	40.00
		Remarks: 5 BBLs of fresh water spacer.						
10	Jan 06,2015 12:17	Mix Cement	0-1-0 G	3.50	1,000.0	--	53.30	93.30
		Remarks: Mix and pump 53.3 BBLs WR = 4.98 / Y= 1.15 / D= 15.8 / SW= 95.6						
11	Jan 06,2015 12:36	Displace Fluid	Water	2.50	1,300.0	--	13.20	106.50
		Remarks: Displace 13.2 BBLs of water leaving 3 BBLs on top at 3983 feet.						
12	Jan 06,2015 13:55	Forward Circulate	Water	2.00	120.0	--	20.00	126.50
		Remarks: Roll the hole 20 BBLs.						
13	Jan 06,2015 14:30	Rig Out		--	--	--	--	126.50
		Remarks: Rig down.						
14	Jan 06,2015 14:40	Job Complete		--	--	--	--	126.50
		Remarks: Job complete.						
15	Jan 06,2015 15:00	Leave Location		--	--	--	--	126.50
		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 NumberMaterial Transfer Sheet Number

55451

55450



Pumping Service Report

9199298

Client Name Anadarko Petroleum Corporation	Well Name Henrickson Amoco 41-19A	Rig Concord Well Servicing 6	Job Date January 08, 2015	Call Sheet 1053051
Client Representative Mr. Derrick Powell	Surface Well Location NE NE Sec 19:T3N:R66W	Down Hole Well Location	Job Type Cement Misc.	Lead Supervisor Contreras, Bennie (23469)

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)
10.750	--	466.000	1,100.000	--	--

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)
4.500	11.600	J-55	4,960.0	5,350.0	7.24	4.000	5.000	0.0	466.0
4.500	11.600	J-55	4,960.0	5,350.0	1.90	4.000	5.000	1,100.0	1,222.0

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	4.720	1.995	2.910	0.000	1,222.000

Products

Plug 1

From Depth (ft): 290

To Depth (ft): 1222

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 490 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 116 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 63
+ 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



Pumping Service Report

9199298

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	449093	TRAILER	Utility Trailer	01/08/2015 09:00	01/08/2015 13:15
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	01/08/2015 09:00	01/08/2015 13:15
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	01/08/2015 09:00	01/08/2015 13:15

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Contreras, Bennie (23469)	01/08/2015 09:00	01/08/2015 13:15		
Young, Craig (27496)	01/08/2015 09:00	01/08/2015 13:15		
Heye, Joshua (29833)	01/08/2015 09:00	01/08/2015 13:15		
Lindsay, Kevin (27589)	01/08/2015 09:00	01/08/2015 13:15		

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	Jan 08,2015 09:00	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived						
2	Jan 08,2015 09:20	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Talked about spotting trucks and rigging in.						
3	Jan 08,2015 09:45	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete.						
4	Jan 08,2015 09:52	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jan 08,2015 10:35	Pressure Test Start	Water	--	3,000.0	--	--	0.00
		Remarks: Pressure test 3000 psi.						
6	Jan 08,2015 10:37	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Pressure test complete.						
7	Jan 08,2015 10:38	Establish Circulation	Water	3.00	450.0	--	5.00	5.00
		Remarks: Establish circulation 5 BBLs.						
8	Jan 08,2015 10:40	Pump Preflush	Water	3.00	250.0	--	10.00	15.00
		Remarks: 10 BBLs of SAPP.						
9	Jan 08,2015 10:44	Pump Spacer	Water	3.00	200.0	--	20.00	35.00
		Remarks: 20 BBL Fresh water spacer.						
10	Jan 08,2015 10:50	Mix Cement	0:1:0 Type III	3.00	120.0	--	116.00	151.00
		Remarks: Mix and pump 116 BBLs of cement @ 14.8 lb/gal.. WR=6.31/ Y=1.33/ D=14.8/ SW=95.7						
11	Jan 08,2015 08:20	Displace Fluid	Water	3.00	250.0	--	1.00	152.00
		Remarks: Displace 1 BBL.						
12	Jan 08,2015 12:45	Rig Out		--	--	--	--	152.00
		Remarks: Rig down iron and hoses.						
13	Jan 08,2015 12:55	Job Complete		--	--	--	--	152.00
		Remarks: Job complete.						
14	Jan 08,2015 13:15	Leave Location		--	--	--	--	152.00
		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

55456

55457