



# Cementing Service Report

9208212

Client Name Anadarko Petroleum Corporation	Well Name PSC 32 - 2	Rig Concord Well Servicing 3	Job Date November 19,2015	Call Sheet 1062605
Client Representative Mr. Logan Lenhart	Surface Well Location NW SW Sec 2:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	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):	--- @ --

## 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	45.92	8.097	9.625	0.0	721.0
4.500	11.600	J-55	4,960.0	5,350.0	114.11	4.000	5.000	0.0	7,342.0

## 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	26.440	1.995	2.910	0.000	6,840.000
2.375	4.700	J-55	8,100.000	16.470	1.995	2.910	0.000	4,260.000

## Products

### Plug 1

From Depth (ft): 6408

To Depth (ft): 6840

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 25 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 6.7 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 68

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of ASM-3 (Preblend)

### Plug 2

From Depth (ft): 3796

To Depth (ft): 4260

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 35 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 7.2 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 68

+ 0.5 % of CFR-2 (Preblend),

+ 0.2 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend)

## Fluid & Cement Data

Expected Cement Top: --

### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 02, 2015 09:59



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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>
201273	PICKUP	3/4 Ton				11/19/2015 10:30	11/19/2015 14:45
740018-1	BODY JOB	C & A				11/19/2015 10:30	11/19/2015 14:45
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	11/19/2015 10:30	11/19/2015 14:45
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)	11/19/2015 10:30		11/19/2015 14:45				
Redding, Cleve (20533)	11/19/2015 10:30		11/19/2015 14:45				
Felton, Charles (23482)	11/19/2015 10:30		11/19/2015 14:45				
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	Nov 19,2015 10:30	Arrive On Location		--	--	--	--	0.00	
		Remarks: Arrived.							
2	Nov 19,2015 10:40	Crew Briefing (Rig in)		--	--	--	--	0.00	
		Remarks: STEACS							
3	Nov 19,2015 11:30	Rig in Complete		--	--	--	--	0.00	
		Remarks: Rig in complete.							
4	Nov 19,2015 11:31	Crew Briefing (Pre Job)		--	--	--	--	0.00	
		Remarks: Muster, 911 caller, Nearest med., Amb. and driver, Location safety equipt., Job scope.							
5	Nov 19,2015 12:00	Pressure Test Start	Water	--	2,000.0	--	--	0.00	
		Remarks: 2000 psi Pressure test.							
6	Nov 19,2015 12:02	Pressure Test Complete		--	--	--	--	0.00	
		Remarks: Test complete.							
7	Nov 19,2015 12:03	Batch Mix	Thermal 35	5.00	55.0	--	6.70	0.00	
		Remarks: Batch mix 6.7 BBLs of cement @ 15.8 lb/gal..							
8	Nov 19,2015 12:14	Pump	Thermal 35	2.00	550.0	--	6.70	6.70	
		Remarks: Pump 6.7 BBLs of cement @ 15.8 lb/gal. Scaled cement for accuracy.							
9	Nov 19,2015 12:17	Displace Fluid	Water	2.50	550.0	--	23.00	29.70	
		Remarks: Displace 23 BBLs of water to balance plug.							
10	Nov 19,2015 12:26	Stop		--	--	--	--	29.70	
		Remarks: Stop and wait for second plug.							
11	Nov 19,2015 13:21	Pressure Test	Water	--	2,000.0	--	--	29.70	
		Remarks: 2000 psi pressure test.							
12	Nov 19,2015 13:22	Establish Circulation	Water	2.00	300.0	--	2.00	31.70	
		Remarks: 2 BBLs of water to establish circulation.							
13	Nov 19,2015 13:24	Batch Mix	0-1-0 G	5.00	55.0	--	7.20	31.70	
		Remarks: Batch mix 7.2 BBLs of cement @ 15.8 lb/gal. Scaled for accuracy.							
14	Nov 19,2015 13:42	Pump	0-1-0 G	2.50	400.0	--	7.20	38.90	
		Remarks: Pump 7.2 BBLs of cement @ 15.8 lb/gal.							
15	Nov 19,2015 13:45	Displace Fluid	Water	2.50	55.0	--	13.00	51.90	
		Remarks: Pump 13 BBLs of water to balance plug.							
16	Nov 19,2015 14:20	Rig Out		--	--	--	--	51.90	
		Remarks: Rig out.							
17	Nov 19,2015 14:35	Job Complete		--	--	--	--	51.90	
		Remarks: Job complete.							
18	Nov 19,2015 14:45	Leave Location		--	--	--	--	51.90	
		Remarks: Leave.							



# Cementing Service Report

9209061

Client Name Anadarko Petroleum Corporation	Well Name PSC 32 - 2	Rig Concord Well Servicing 3	Job Date November 20,2015	Call Sheet 1062641
Client Representative Mr. Logan Lenhart	Surface Well Location NW SW Sec 2:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hansen, Kevin (27592)

## 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	721.000	850.000	--	--

## 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	J-55	1,370.0	2,950.0	45.92	8.097	9.625	0.0	721.0
4.500	8.700		--	--	--	--	--	0.0	7,342.0

## 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		--	--	--	--	0.000	950.000

## Products

### Plug 1

From Depth (ft): 451

To Depth (ft): 950

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 115 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 27.2 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 61 , Slurry Temperature(°F) = 70

+ 0.5 % of CaCl<sub>2</sub> (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): 451

### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 02, 2015 09:59



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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>
444002	TRAILER	Iron	201386	PICKUP	1 Ton	11/20/2015 12:00	11/20/2015 15:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	11/20/2015 12:00	11/20/2015 15:00
746502	BODY JOB	Baby Bulker				11/20/2015 12:00	11/20/2015 15:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Hansen, Kevin (27592)	11/20/2015 12:00	11/20/2015 15:00					
Hansen, Ted (29055)	11/20/2015 12:00	11/20/2015 15:00					
Faircloth, Branden (29706)	11/20/2015 12:00	11/20/2015 15:00					

Treatment Reports & Remarks									
Treatment Report									
Event #	Event Time	Event Description	Fluid Type	Rate	Tubular Pressure	Annular Pressure	Stage Volume	Total Volume	
				(bbl/min)	(psi)	(psi)	(bbl)	(bbl)	
1	Nov 20,2015 12:00	Arrive On Location		--	--	--	--	0.00	
2	Nov 20,2015 12:10	Crew Briefing (Rig in)		--	--	--	--	0.00	
		Remarks: Discussed spotting trucks and filled out JSA							
3	Nov 20,2015 12:45	Rig in Complete		--	--	--	--	0.00	
4	Nov 20,2015 12:50	Crew Briefing (Pre Job)		--	--	--	--	0.00	
		Remarks: Discussed upcoming job and safety concerns with rig crew							
5	Nov 20,2015 13:05	Pressure Test Start	Water	2.00	100.0	--	2.00	2.00	
		Remarks: Filled lines for pressure test							
6	Nov 20,2015 13:09	Pressure Test Complete		--	2,000.0	--	--	2.00	
		Remarks: Pressure test good							
7	Nov 20,2015 13:10	Establish Circulation	Water	2.00	200.0	--	5.00	7.00	
8	Nov 20,2015 13:13	Pump Preflush	Water	3.00	300.0	--	10.00	17.00	
		Remarks: Pumped SAPP							
9	Nov 20,2015 13:17	Pump Spacer	Water	3.00	300.0	--	20.00	37.00	
10	Nov 20,2015 13:22	Mix Cement	0:1:0 Type III	3.00	350.0	--	27.20	64.20	
		Remarks: D-14.8, Y-1.33, WR-6.31							
11	Nov 20,2015 13:25	Mix Cement		--	--	--	--	64.20	
		Remarks: Weigh slurry to confirm density							
12	Nov 20,2015 13:31	Displace Fluid	Water	2.00	200.0	--	1.50	65.70	
13	Nov 20,2015 13:40	Job Complete		--	--	--	--	65.70	
14	Nov 20,2015 13:45	Wash		--	--	--	--	65.70	
15	Nov 20,2015 14:20	Rig Out		--	--	--	--	65.70	
16	Nov 20,2015 14:50	Pre-Departure Meeting		--	--	--	--	65.70	
		Remarks: Discussed journey management							
17	Nov 20,2015 15:00	Leave Location		--	--	--	--	65.70	
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									
63853									
63865									