



# Cementing Service Report

9208173

Client Name Anadarko Petroleum Corporation	Well Name Ballantine 4 - 30A	Rig Basic 1524	Job Date November 19,2015	Call Sheet 1062617
Client Representative Mr. Nick Lang	Surface Well Location NW NW Sec 30:T2N:R68W	Down Hole Well Location	Job Type Bradenhead Squeeze	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):	--- @ --

## Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.000	--	748.000	8,101.000	--	--

## 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	47.64	8.097	9.625	0.0	748.0
4.500	11.600	J-55	4,960.0	5,350.0	125.91	4.000	5.000	0.0	8,101.0

## Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
1.660	2.330	J-55	8,490.000	1.750	1.380	1.880	0.000	947.000

## Products

### Stage 1

From Depth (ft): 593

To Depth (ft): 950

Acids/Blends/Fluids :

Tail: **65 Sacks** of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 15.4 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65

+ 1 % 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): 593

### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Apr 08, 2015 17:07



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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>
449095	TRAILER	Utility Trailer	201168	PICKUP	1 Ton	11/19/2015 12:00	11/19/2015 14:40
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	11/19/2015 12:00	11/19/2015 14:40
746502	BODY JOB	Baby Bulker				11/19/2015 12:00	11/19/2015 14:40
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)	11/19/2015 12:00		11/19/2015 14:40				
Cheal, Samuel (28315)	11/19/2015 12:00		11/19/2015 14:40				
Heller, Brian (28432)	11/19/2015 12:00		11/19/2015 14:40				
Curtner, Jerry (28310)	11/19/2015 12:00		11/19/2015 14:40				



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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 19,2015 12:00	Arrive On Location		--	--	--	--	0.00	
2	Nov 19,2015 12:05	Crew Briefing (Rig in)		--	--	--	--	0.00	
		Remarks: Held							
3	Nov 19,2015 12:20	Rig in Complete		--	--	--	--	0.00	
4	Nov 19,2015 12:30	Crew Briefing (Pre Job)		--	--	--	--	0.00	
5	Nov 19,2015 12:45	Wait on Client (non Sanjel)		--	--	--	--	0.00	
		Remarks: Wait on rig to spot mud							
6	Nov 19,2015 13:07	Pressure Test Start	Water	1.00	120.0	--	1.00	1.00	
		Remarks: Filled lines							
7	Nov 19,2015 13:09	Pressure Test Complete	Water	--	2,500.0	--	--	1.00	
		Remarks: Lines held good							
8	Nov 19,2015 13:13	Pump	Water	1.50	450.0	--	5.00	6.00	
		Remarks: 5bbls fresh water							
9	Nov 19,2015 13:15	Pump Preflush	Water	1.50	450.0	--	20.00	26.00	
		Remarks: 20bbls wellseal							
10	Nov 19,2015 13:26	Pump Spacer	Water	1.00	100.0	--	16.00	42.00	
		Remarks: 65sk 0:1:0 TypeIII at 14.8 lb/gal							
11	Nov 19,2015 13:58	Displace Fluid	Water	1.00	100.0	--	1.00	43.00	
		Remarks: Displace to top of cement							
12	Nov 19,2015 13:50	Finish Displacement		--	--	--	--	43.00	
13	Nov 19,2015 14:00	Wash	Water	--	--	--	--	43.00	
		Remarks: Wash pump unit							
14	Nov 19,2015 14:20	Rig Out		--	--	--	--	43.00	
15	Nov 19,2015 14:35	Job Complete		--	--	--	--	43.00	
16	Nov 19,2015 14:40	Leave Location		--	--	--	--	43.00	
Did Float Hold:		No							
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									
63850									
63851									