



Cementing Service Report

9209045

Client Name Anadarko Petroleum Corporation	Well Name West Farm 13 - 14A	Rig Basic 1662	Job Date January 08, 2016	Call Sheet 1063716
Client Representative Mr. Sam Sloan	Surface Well Location SE SE Sec 14:T3N:R67W	Down Hole Well Location	Job Type Bradenhead Squeeze	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):	--- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.500	--	498.000	1,100.000	--	--
9.000	--	1,100.000	4,753.000	--	--

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	31.72	8.097	9.625	0.0	498.0
4.500	11.600	J-55	4,960.0	5,350.0	73.87	4.000	5.000	0.0	4,753.0

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	8.790	1.380	1.880	0.000	4,753.000

Products

Stage 1

From Depth (ft): 3804

To Depth (ft): 4753

Acids/Blends/Fluids :

Tail: 280 Sacks of 1-1-0 G, Density = 14.6 lb/gal, Volume Pumped = 56 (bbl)

Water Temperature(°F) = 49 , Bulk Temperature(°F) = 20 , Slurry Temperature(°F) = 55

+ 0.5 % of CFR-2 (Preblend),

+ 0.6 % of CFL-2 (Preblend),

+ 0.4 % of LTR (Preblend),

+ 0.2 % of SPC-2 (Preblend),

+ 0.6 % of SMS (Preblend)

Stage 2

From Depth (ft): 271

To Depth (ft): 1050

Acids/Blends/Fluids :

Tail: 160 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 38 (bbl)

Water Temperature(°F) = 49 , Bulk Temperature(°F) = 20 , Slurry Temperature(°F) = 59

+ 0.5 % 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 LCL-7 (Preblend)



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Fluid & Cement Data

Expected Cement Top: Depth (ft): 271

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	--	--	--	--	Apr 08, 2015 17:07

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>
449086	TRAILER	Utility Trailer	201168	PICKUP	1 Ton	01/08/2016 08:00	01/08/2016 14:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	01/08/2016 08:00	01/08/2016 14:00
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	01/08/2016 08:00	01/08/2016 14:00
446172	TRAILER	Bulker	746172	TRACTOR	Tandem - Tractor	01/08/2016 08:00	01/08/2016 14:00

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 (24093)	01/08/2016 08:00	01/08/2016 14:00		
Scott, Derek (29603)	01/08/2016 08:00	01/08/2016 14:00		
Daylong, Eric (28076)	01/08/2016 08:00	01/08/2016 14:00		
Decenick, Scott (30083)	01/08/2016 08:00	01/08/2016 14:00		

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 08,2016 08:00	Arrive On Location		--	--	--	--	0.00
2	Jan 08,2016 08:05	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedures						
3	Jan 08,2016 08:30	Rig In		--	--	--	--	0.00
4	Jan 08,2016 09:00	Rig in Complete		--	--	--	--	0.00
5	Jan 08,2016 09:20	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
6	Jan 08,2016 09:51	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
7	Jan 08,2016 09:53	Pressure Test Start	Water	--	3,500.0	--	--	1.00
8	Jan 08,2016 09:55	Pressure Test Complete	Water	--	0.0	--	--	1.00
		Remarks: good pressure test						
9	Jan 08,2016 09:55	Establish Circulation	Water	2.00	1,800.0	--	5.00	6.00
		Remarks: fresh water						
10	Jan 08,2016 09:59	Pump Preflush	Water	2.00	1,800.0	--	20.00	26.00
		Remarks: well seal						
11	Jan 08,2016 10:09	Pump Spacer	Water	2.00	1,800.0	--	5.00	31.00
		Remarks: fresh water						
12	Jan 08,2016 10:12	Mix Cement	1-1-0 G	1.75	3,000.0	--	56.00	87.00
		Remarks: 280 sks plug cement @ 14.6 ppg yield = 1.12 h2o req = 4.62 total h2o = 31 bbl						
13	Jan 08,2016 10:43	Displace Fluid	Water	1.75	2,200.0	--	7.00	94.00
		Remarks: displaced to balance						
14	Jan 08,2016 10:47	Balance Plug	Water	--	0.0	--	--	94.00
15	Jan 08,2016 11:00	Wait On Instructions		--	--	--	--	94.00
		Remarks: waited for rig crew to pull tubing						
16	Jan 08,2016 12:08	Start - Fluid	Water	1.00	--	--	2.00	2.00
		Remarks: filledlines						
17	Jan 08,2016 12:10	Pressure Test	Water	--	2,000.0	--	--	2.00
18	Jan 08,2016 12:12	Pump Preflush	Water	2.00	400.0	--	10.00	12.00
		Remarks: fresh water preflush						
19	Jan 08,2016 12:18	Mix Cement	0:1:0 Type III	2.50	1,000.0	--	38.00	50.00
		Remarks: 160 sks plug cement @ 14.8 ppg yield = 1.33 h2o req = 6.31 total h2o = 24 bbl						
20	Jan 08,2016 12:35	Displace Fluid	Water	2.50	1,200.0	--	1.00	51.00
		Remarks: displaced to balance						
21	Jan 08,2016 12:36	Balance Plug	Water	--	0.0	--	--	51.00
22	Jan 08,2016 12:40	Tailgate Meeting		--	--	--	--	51.00
		Remarks: revisited JSA						
23	Jan 08,2016 12:45	Rig Out		--	--	--	--	51.00
24	Jan 08,2016 13:00	Wash	Water	--	--	--	--	51.00
		Remarks: washed pumps and lines						
25	Jan 08,2016 13:30	Job Complete		--	--	--	--	94.00
26	Jan 08,2016 13:45	Pre-Departure Meeting		--	--	--	--	94.00
27	Jan 08,2016 14:00	Leave Location		--	--	--	--	94.00

Treatment Reports & Remarks

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

63269

63270

63271