



Cementing Service Report

9207958

Client Name Anadarko Petroleum Corporation	Well Name Kern L 4 - 12	Rig ECWS 7	Job Date September 17,2015	Call Sheet 1060843
Client Representative Mr. Dave Donoho	Surface Well Location NW SW Sec 4:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Klosterman, Austin (27698)

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										
<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield 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)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)	
2.875	6.500		--	--	--	--	--	0.0	7,250.0	
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)	
1.660	2.300			--	--	--	--	0.000	7,245.000	

Products										
Plug 1										
From Depth (ft):		7245								
To Depth (ft):		6555								
Plug Type :		Abandonment								
Acids/Blends/Fluids :		Plug: 15 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 4 (bbl) Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80 + 0.3 % of ASM-3 (Preblend), + 0.3 % of CFR-2 (Preblend)								

Fluid & Cement Data					
Expected Cement Top:		Depth (ft): 6555			
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

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				09/17/2015 09:00	09/17/2015 13:00
740067	BODY JOB	C & A				09/17/2015 09:00	09/17/2015 13:00
446145	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	09/17/2015 09:00	09/17/2015 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>
Klosterman, Austin (27698)	09/17/2015 09:00	09/17/2015 13:00					
Curtner, Jerry (28310)	09/17/2015 09:00	09/17/2015 13:00					
Daylong, Eric (28076)	09/17/2015 09:00	09/17/2015 13:00					



9207958

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	Sep 17,2015 09:00	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Sep 17,2015 09:10	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Sep 17,2015 11:20	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Sep 17,2015 11:25	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Sep 17,2015 11:31	Pressure Test Start	Water	0.00	3,400.0	0.0	0.00	0.00
6	Sep 17,2015 11:32	Pressure Test Complete	Water	0.00	3,400.0	0.0	0.00	0.00
7	Sep 17,2015 11:33	Establish Circulation	Water	1.50	1,600.0	0.0	5.00	5.00
8	Sep 17,2015 11:50	Pump	Thermal 35	1.50	1,000.0	0.0	4.00	9.00
Remarks: Batch up 15sx@15.8#, Yield 1.51, WR 6.23, Mix H2O 2.2bbbls, Scaled before going downhole @15.8#.								
9	Sep 17,2015 11:54	Displace Fluid	Water	1.80	1,000.0	0.0	12.50	21.50
10	Sep 17,2015 12:30	Rig Out		0.00	0.0	0.0	0.00	21.50
11	Sep 17,2015 12:45	Job Complete		0.00	0.0	0.0	0.00	21.50
12	Sep 17,2015 13:00	Leave Location		0.00	0.0	0.0	0.00	21.50
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								
65771								



Cementing Service Report

9207960

Client Name Anadarko Petroleum Corporation	Well Name Kern L 4 - 12	Rig ECWS 7	Job Date September 18,2015	Call Sheet 1060863
Client Representative Mr. Dave Donoho	Surface Well Location NW NE Sec 4:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Klosterman, Austin (27698)

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									
	<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>			
	11.000	--	0.000	5,145.000	--	--			
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)
	2.875	6.500		--	--	--	--	0.000	5,145.000

Products	
Plug 1	
From Depth (ft):	5145
To Depth (ft):	4936
Plug Type :	Abandonment
Acids/Blends/Fluids :	
Plug: <u>120 Sacks</u> of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 24.5 (bbl)	
Water Temperature(°F) = 60 , 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): 4936			
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

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				09/18/2015 09:30	09/18/2015 14:00
740018-1	BODY JOB	C & A				09/18/2015 09:30	09/18/2015 14:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	09/18/2015 09:30	09/18/2015 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>			
Klosterman, Austin (27698)	09/18/2015 09:30	09/18/2015 14:00					
Davila, Israel (28152)	09/18/2015 09:30	09/18/2015 14:00					
Vitera, John (29843)	09/18/2015 09:30	09/18/2015 14:00					



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	Sep 18,2015 09:30	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Sep 18,2015 09:40	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Sep 18,2015 10:50	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Sep 18,2015 11:00	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Sep 18,2015 12:18	Pressure Test Start	Water	0.00	4,000.0	0.0	0.00	0.00
6	Sep 18,2015 12:19	Pressure Test Complete	Water	0.00	4,000.0	0.0	0.00	0.00
7	Sep 18,2015 12:20	Pump Preflush	Water	3.00	150.0	0.0	5.00	5.00
		Remarks: Fresh.						
8	Sep 18,2015 12:22	Pump Preflush	Water	2.00	600.0	0.0	20.00	25.00
		Remarks: SMS.						
9	Sep 18,2015 12:30	Pump Preflush	Water	2.00	600.0	0.0	5.00	30.00
		Remarks: Fresh.						
10	Sep 18,2015 12:33	Pump	0-1-0 G	3.00	350.0	0.0	24.50	54.50
		Remarks: Mix up and pump 120sx @15.8#, Yield 1.15, WR 4.98, MixH2O 14bbls, Scaled@1240@15.8#.						
11	Sep 18,2015 12:45	Displace Fluid	Water	2.50	700.0	0.0	18.00	72.50
		Remarks: Company hand cut displacement from 28.6 to 18bbls.						
12	Sep 18,2015 13:00	Rig Out		0.00	0.0	0.0	0.00	72.50
13	Sep 18,2015 13:30	Job Complete		0.00	0.0	0.0	0.00	72.50
14	Sep 18,2015 14:00	Leave Location		0.00	0.0	0.0	0.00	72.50
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								
65783								
65784								



Cementing Service Report

9206692

Client Name Anadarko Petroleum Corporation	Well Name Kern L 4 - 12	Rig ECWS 7	Job Date September 21,2015	Call Sheet 1060957
Client Representative Mr. Dave Donoho	Surface Well Location NW SW Sec 4:T3N:R66W	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):		---	@	--					
Open Hole									
	<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>			
	11.500	--	760.000	4,450.000	--	--			
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)
	2.875	6.500		--	--	--	--	0.000	4,450.000

Products	
Plug 1	
From Depth (ft):	4450
To Depth (ft):	4052
Plug Type :	Abandonment
Acids/Blends/Fluids :	
Plug: <u>250 Sacks</u> of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 51.2 (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): 4052			
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

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	09/21/2015 09:30	09/21/2015 13:00
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	09/21/2015 09:30	09/21/2015 13:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	09/21/2015 09:30	09/21/2015 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>			
Lopez, Armando (29064)	09/21/2015 09:30	09/21/2015 13:00					
Svoboda, Miloslav (28226)	09/21/2015 09:30	09/21/2015 13:00					
Decenick, Scott (30083)	09/21/2015 09:30	09/21/2015 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	Sep 21,2015 09:30	Arrive On Location		--	--	--	--	0.00
2	Sep 21,2015 09:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Sep 21,2015 10:10	Rig in Complete		--	--	--	--	0.00
4	Sep 21,2015 10:15	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Sep 21,2015 10:39	Start - Fluid	Water	1.00	0.0	--	2.00	2.00
		Remarks: Fill lines						
6	Sep 21,2015 10:40	Pressure Test Start		--	2,500.0	--	--	0.00
7	Sep 21,2015 10:42	Pressure Test Complete		--	--	--	--	0.00
8	Sep 21,2015 10:43	Pump Spacer	Water	2.50	1,400.0	--	20.00	22.00
		Remarks: SMS						
9	Sep 21,2015 10:49	Pump Spacer	Water	2.50	1,500.0	--	10.00	32.00
10	Sep 21,2015 10:53	Mix Cement	0-1-0 G	3.00	1,500.0	--	51.20	83.20
		Remarks: Pumped 250 sacks Density 14.6 Yield 1.15 Water 4.98. Cement weight with scale was 14.7						
11	Sep 21,2015 11:18	Displace Fluid	Water	3.00	300.0	--	22.00	105.20
12	Sep 21,2015 11:30	Stop		--	--	--	--	0.00
13	Sep 21,2015 11:40	Wash		--	--	--	--	0.00
14	Sep 21,2015 12:10	Rig Out		--	--	--	--	0.00
15	Sep 21,2015 12:40	Job Complete		--	--	--	--	0.00
16	Sep 21,2015 12:45	Pre-Departure Meeting		--	--	--	--	0.00
17	Sep 21,2015 13:00	Leave Location		--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Mud

Volume (bbl) : 105

Temperature (°F) : 80

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



Cementing Service Report

9206636

Client Name Anadarko Petroleum Corporation	Well Name Kern L 4 - 12	Rig ECWS 7	Job Date September 23,2015	Call Sheet 1061006
Client Representative Mr. Dave Donoho	Surface Well Location NW SW Sec 4:T3N:R66W	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): --- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
11.500	--	408.000	1,130.000	--	--

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		--	--	--	--	--	0.0	408.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	6.500	J-55	7,680.000	6.540	2.441	3.668	0.000	1,130.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 1130

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 520 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 123.2 (bbl)

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

- + 0.5 % of CaCl₂ (Preblend),
- + 0.25 lb/sack of Polyflake (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: Surface

Wellbore Fluid

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

Units & Personnel								
Units								
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location	
200925	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	09/23/2015 07:30	09/23/2015 10:30	
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	09/23/2015 07:30	09/23/2015 10:30	
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	09/23/2015 07:30	09/23/2015 10:30	
Crew and Bonuses								
Employee	Start Shift	End Shift	Second Start Shift	Second End Shift				
Doran, Benjamin (27933)	09/23/2015 07:30	09/23/2015 10:30						
Schroeder, Stephen (25442)	09/23/2015 07:30	09/23/2015 10:30						
Leue, David (28684)	09/23/2015 07:30	09/23/2015 10:30						
Hilt, Brandon (30128)	09/23/2015 07:30	09/23/2015 10:30						
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	Sep 23, 2015 07:30	Arrive On Location		--	--	--	--	0.00
2	Sep 23, 2015 07:35	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Sep 23, 2015 08:00	Rig in Complete		--	--	--	--	0.00
4	Sep 23, 2015 08:13	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Sep 23, 2015 08:27	Pressure Test Start		2.00	100.0	--	1.00	0.00
		Remarks: Fill lines						
6	Sep 23, 2015 08:29	Pressure Test Complete		--	2,000.0	--	--	0.00
		Remarks: All lines held pressure						
7	Sep 23, 2015 08:30	Pump Preflush	Water	3.00	200.0	--	10.00	0.00
		Remarks: Mudflush						
8	Sep 23, 2015 08:35	Pump Spacer	Water	3.00	200.0	--	20.00	0.00
9	Sep 23, 2015 08:48	Mix Cement	0:1:0 Type III	3.00	300.0	--	123.20	0.00
		Remarks: Mix/Pump 520 Sacks @ 14.8 PPG, 1.33 Yield, 6.31 Water Req, 95.66 Sack Weight						
10	Sep 23, 2015 09:27	Displace Fluid	Water	1.00	400.0	--	1.50	0.00
		Remarks: Clean out lines						
11	Sep 23, 2015 09:45	Rig Out		--	--	--	--	0.00
12	Sep 23, 2015 10:15	Job Complete		--	--	--	--	0.00
13	Sep 23, 2015 10:30	Leave Location		--	--	--	--	0.00
Did Float Hold:		Not Applicable						
Fluid Returns :		Yes						
Type :		Cement						
Volume (bbl) :		8						
Temperature (°F) :		70						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						