



Cementing Service Report

9207931

Client Name Anadarko Petroleum Corporation	Well Name Cantwell 7 - 16 A	Rig Leed 721	Job Date September 17,2015	Call Sheet 1060846
Client Representative Mr. Nate Windholz	Surface Well Location SW NE Sec 16:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	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): --- @ --

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	104.76	4.000	5.000	0.0	6,740.0

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	26.030	1.995	2.910	0.000	6,733.000

Products

Plug 1

From Depth (ft): 6301

To Depth (ft): 6733

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) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75

+ 0.3 % of ASM-3 (Preblend),

+ 0.3 % of CFR-2 (Preblend)

Plug 2

From Depth (ft): 3565

To Depth (ft): 3759

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 240 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 49 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75

+ 0.5 % of CFR-2 (Preblend),

+ 0.2 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 % of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3565

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 29, 2014 06:51



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Attachment & Tools**Down Hole Tools**

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Bridge Plug	6,740.000	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>
201114	PICKUP	3/4 Ton				09/17/2015 08:00	09/17/2015 15:10
740018-1	BODY JOB	C & A				09/17/2015 08:00	09/17/2015 15:10
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	09/17/2015 08:00	09/17/2015 15:10

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)	09/17/2015 08:00	09/17/2015 15:10		
Davila, Israel (28152)	09/17/2015 08:00	09/17/2015 15:10		
Vitera, John (29843)	09/17/2015 08:00	09/17/2015 15:10		

Treatment Reports & Remarks

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 08:00	Arrive On Location		--	--	--	--	0.00
2	Sep 17,2015 08:05	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Held						
3	Sep 17,2015 08:40	Rig in Complete		--	--	--	--	0.00
4	Sep 17,2015 08:45	Wait On Instructions		--	--	--	--	0.00
		Remarks: Wait on water hauler and rig to finish circulating						
5	Sep 17,2015 09:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Held						
6	Sep 17,2015 09:22	Pressure Test Start	Water	1.00	120.0	--	1.00	1.00
		Remarks: Filled lines						
7	Sep 17,2015 09:24	Pressure Test Complete	Water	--	2,100.0	--	--	1.00
		Remarks: Lines held good						
8	Sep 17,2015 09:25	Establish Circulation	Water	2.40	500.0	--	4.00	5.00
		Remarks: Good circulation						
9	Sep 17,2015 09:27	Mix Cement	Thermal 35	2.00	500.0	--	6.90	11.90
		Remarks: 25sks of thermal 35 at 15.8 lb/gal						
10	Sep 17,2015 09:31	Displace Fluid	Water	2.00	500.0	--	24.00	35.90
		Remarks: Displace to balance plug						
11	Sep 17,2015 09:43	Finish Displacement		--	0.0	--	--	35.90
12	Sep 17,2015 09:50	Wash	Water	--	--	--	--	35.90
		Remarks: wash pump unit						
13	Sep 17,2015 10:10	Wait On Instructions		--	--	--	--	35.90
		Remarks: Wait on rig to pull tubing and set retainer						
14	Sep 17,2015 13:15	Pressure Test	Water	--	2,500.0	--	--	0.00
		Remarks: Lines held good						
15	Sep 17,2015 13:20	Establish Circulation	Water	0.30	1,400.0	--	20.00	20.00
		Remarks: 20 Wellseal stinger was plugged at first stinger cleared out rate came up to 3bbblm at 750psi						
16	Sep 17,2015 14:01	Pump Spacer	Water	3.00	800.0	--	5.00	25.00
		Remarks: 5bbbls fresh spacer						
17	Sep 17,2015 14:05	Mix Cement	0-1-0 G	3.00	1,000.0	--	51.00	76.00
		Remarks: 240sks of 0:1:0 G at 15.8 lb/gal						
18	Sep 17,2015 14:21	Displace Fluid	Water	2.00	900.0	--	11.50	87.50
		Remarks: Displace to leave 3 on top of retainer						
19	Sep 17,2015 14:26	Finish Displacement		--	--	--	--	87.50
20	Sep 17,2015 14:30	Wash		--	--	--	--	87.50
		Remarks: Wash pump unit						
21	Sep 17,2015 14:50	Rig Out		--	--	--	--	87.50
22	Sep 17,2015 15:00	Job Complete		--	--	--	--	35.90
23	Sep 17,2015 15:10	Leave Location		--	--	--	--	35.90



Cementing Service Report

9207915

Client Name Anadarko Petroleum Corporation	Well Name Cantwell 7 - 16 A	Rig Leed 721	Job Date September 18,2015	Call Sheet 1060862
Client Representative Mr. Nate Windholz	Surface Well Location SW NE Sec 16:T3N:R67W	Down Hole Well Location Sec 0:T0N:R0W	Job Type Abandonment Plugs	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)
9.000	40.000	552.000	800.000	--	--

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)
8.625	24.000	J-55	1,370.0	2,950.0	35.15	8.097	9.625	0.0	552.0
4.500	11.600	J-55	4,960.0	5,350.0	1.54	4.000	5.000	800.0	899.0

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	3.480	1.995	2.910	0.000	899.000

Products

Plug 1

From Depth (ft): 285

To Depth (ft): 899

Plug Type : Abandonment

Acids/Blends/Fluids :

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

Water Temperature(°F) = 68 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 90

+ 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 Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 285

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 29, 2014 06:51



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	201025	PICKUP	1 Ton	09/18/2015 09:30	09/18/2015 12:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	09/18/2015 09:30	09/18/2015 12:00
746502	BODY JOB	Baby Bulker				09/18/2015 09:30	09/18/2015 12:00
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)	09/18/2015 09:30		09/18/2015 12:00				
Betts, Dallas (30257)	09/18/2015 09:30		09/18/2015 12:00				
Hilt, Brandon (30128)	09/18/2015 09:30		09/18/2015 12:00				

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	
2	Sep 18,2015 09:35	Crew Briefing (Rig in)		--	--	--	--	0.00	
		Remarks: discussed lease hazards and rig in procedures							
3	Sep 18,2015 10:00	Rig In		--	--	--	--	0.00	
4	Sep 18,2015 10:15	Rig in Complete		--	--	--	--	0.00	
5	Sep 18,2015 10:20	Crew Briefing (Pre Job)		--	--	--	--	0.00	
		Remarks: discussed job scope and everyones dutys							
6	Sep 18,2015 10:40	Start - Nitrogen	Water	1.00	--	--	1.00	1.00	
		Remarks: filled lines							
7	Sep 18,2015 10:42	Pressure Test Start	Water	--	2,000.0	--	--	1.00	
8	Sep 18,2015 10:44	Pressure Test Complete	Water	--	0.0	--	--	1.00	
		Remarks: good poressure test							
9	Sep 18,2015 10:44	Pump Preflush	Water	3.00	300.0	--	10.00	11.00	
		Remarks: mud flush							
10	Sep 18,2015 10:48	Pump Spacer	Water	3.00	300.0	--	20.00	31.00	
		Remarks: fresh water spacer							
11	Sep 18,2015 10:55	Mix Cement	0:1:0 Type III	3.00	400.0	--	38.00	69.00	
		Remarks: 160 sks plug cement @ 14.8 ppg yield = 1.33 h2o req = 6.31 total h2o = 24 bbl							
12	Sep 18,2015 11:08	Displace Fluid	Water	3.00	500.0	--	1.50	70.50	
		Remarks: displaced to balance							
13	Sep 18,2015 11:08	Balance Plug	Water	--	0.0	--	--	70.50	
14	Sep 18,2015 11:10	Tailgate Meeting		--	--	--	--	70.50	
		Remarks: revisited JSA							
15	Sep 18,2015 11:15	Rig Out		--	--	--	--	70.50	
16	Sep 18,2015 11:30	Wash	Water	--	--	--	--	70.50	
		Remarks: washed pumps and lines							
17	Sep 18,2015 11:45	Job Complete		--	--	--	--	70.50	
18	Sep 18,2015 11:50	Pre-Departure Meeting		--	--	--	--	70.50	
19	Sep 18,2015 12:00	Leave Location		--	--	--	--	70.50	
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									
65785									
65786									