Sanjel

Cementing Service Report

9209007

Client Name	Well Name	Rig	Job Date	Call Sheet
Anadarko Petroleum Corporation	Erie Road USX UU 15-1	Leed 721	November 05,2015	1062259
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	**Lead Supervisior**
Mr. Nate Windholz	SW NE Sec 24:T1N:R67W	Sec 0:T0N:R0W	Abandonment Plugs	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

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
10.000	--	0.000	7,485.000	--	--

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)
4.500	10.500		--	--	--	--	--	0.0	8,425.0

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		--	--	--	--	0.000	7,462.000

Products

Plug 1

From Depth (ft): 6892

To Depth (ft): 7485

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 160 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 47.3 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 78
+ 20 % of Silica Flour (Preblend),
+ 3 % of Gel (Preblend),
+ 0.1 % of SMS (Preblend),
+ 0.4 % of CFR-2 (Preblend),
+ 0.4 % of CFL-3 (Preblend),
+ 0.2 % of CDF-4P (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6892

Wellbore Fluid

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

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	7,462.000	Third Party

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Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201191	PICKUP	1 Ton				11/05/2015 10:30	11/05/2015 16:00
740018-1	BODY JOB	C & A				11/05/2015 10:30	11/05/2015 16:00
746508	BODY JOB	Baby Bulker				11/05/2015 10:30	11/05/2015 16:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Lopez, Armando (29064)	11/05/2015 10:30	11/05/2015 16:00		
Davila, Israel (28152)	11/05/2015 10:30	11/05/2015 16:00		
Phillips, James (23627)	11/05/2015 10:30	11/05/2015 16:00		

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	Nov 05,2015 10:30	Arrive On Location		--	--	--	--	0.00
2	Nov 05,2015 10:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Nov 05,2015 11:30	Rig in Complete		--	--	--	--	0.00
4	Nov 05,2015 13:40	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Nov 05,2015 14:08	Start - Fluid	Water	2.00	--	--	1.00	1.00
	Remarks: Fill lines							
6	Nov 05,2015 14:09	Pressure Test Start		--	2,500.0	--	--	0.00
7	Nov 05,2015 14:11	Pressure Test Complete		--	--	--	--	0.00
8	Nov 05,2015 14:13	Pump Spacer	Water	2.80	1,100.0	--	10.00	11.00
9	Nov 05,2015 14:17	Mix Cement	1-1-0 G	2.50	1,000.0	--	47.30	58.30
	Remarks: Pumped 160 sacks Density 13.5 Yield 1.66 Water 7.92. Cement weight with scale was 13.6							
10	Nov 05,2015 13:48	Displace Fluid	Water	2.00	300.0	--	27.80	86.10
	Remarks: Left 1 bbl on top of retainer.							
11	Nov 05,2015 14:55	Stop		--	--	--	--	0.00
12	Nov 05,2015 15:00	Wash		--	--	--	--	0.00
13	Nov 05,2015 15:20	Rig Out		--	--	--	--	0.00
14	Nov 05,2015 15:40	Job Complete		--	--	--	--	0.00
15	Nov 05,2015 15:45	Pre-Departure Meeting		--	--	--	--	0.00
16	Nov 05,2015 16:00	Leave Location		--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Mud

Volume (bbl) : 86

Temperature (°F) : 80

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
63992

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Cementing Service Report

9209129

Client Name	Well Name	Rig	Job Date	Call Sheet
Anadarko Petroleum Corporation	Erie Road USX UU 15-1	Leed 721	November 14,2015	1062479
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	**Lead Supervisior**
Mr. Nate Windholz	SW NE Sec 24:T1N:R67W	Sec 0:T0N:R0W	Abandonment Plugs	Hall, Andrew J (25267)

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)
12.000	0.000	0.000	5,410.000	--	--

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)
4.500	10.500	J-55	4,010.0	4,790.0	86.28	4.052	5.000	0.0	5,410.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
1.315	1.800	J-55	10,000.000	5.780	1.049	1.900	0.000	5,410.000
1.315	1.800	J-55	10,000.000	1.220	1.049	1.900	0.000	1,140.000

Products

Plug 1

From Depth (ft): 2044

To Depth (ft): 5410

Plug Type : Well Stability

Acids/Blends/Fluids :

Plug: 700 Sacks of 1-1-0 G, Density = 14.6 lb/gal, Volume Pumped = 139 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80
+ 0.6 % of CFL-2 (Preblend),
+ 0.5 % of CFR (Preblend),
+ 0.3 % of SCA-6 (Preblend),
+ 0.2 % of SPC-2 (Preblend),
+ 0.2 % of LTR (Preblend)

Plug 2

From Depth (ft): 300

To Depth (ft): 1140

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 240 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 56.9 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80
+ 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)

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Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

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

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449093	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	11/14/2015 07:00	11/14/2015 14:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	11/14/2015 07:00	11/14/2015 14:30
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	11/14/2015 07:00	11/14/2015 14:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	11/14/2015 07:00	11/14/2015 14:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hall, Andrew J (25267)	11/14/2015 07:00	11/14/2015 14:30		
Dunsbergen, Scott (29737)	11/14/2015 07:00	11/14/2015 14:30		
Pyfer, Kevin (29802)	11/14/2015 07:00	11/14/2015 14:30		
Spirek, Matthew (26921)	11/14/2015 07:00	11/14/2015 14:30		
Devine, Richard (29733)	11/14/2015 07:00	11/14/2015 14:30		

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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 14,2015 07:00	Arrive On Location		--	--	--	--	0.00
2	Nov 14,2015 07:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Nov 14,2015 07:45	Rig in Complete		--	--	--	--	0.00
4	Nov 14,2015 08:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Nov 14,2015 08:50	Pressure Test Start	Water	1.00	3,000.0	--	3.00	3.00
6	Nov 14,2015 08:52	Pressure Test Complete		--	--	--	--	3.00
7	Nov 14,2015 08:53	Establish Circulation	Water	1.50	1,500.0	--	10.00	13.00
8	Nov 14,2015 08:58	Pump Preflush	Water	1.50	1,500.0	--	20.00	33.00
	Remarks: SMS							
9	Nov 14,2015 09:03	Pump Spacer	Water	1.50	1,500.0	--	10.00	43.00
10	Nov 14,2015 09:07	Pump	1-1-0 G	1.50	2,000.0	--	139.00	182.00
11	Nov 14,2015 11:05	Displace Fluid	Water	1.50	2,000.0	--	7.50	189.50
12	Nov 14,2015 11:10	Stop		--	--	--	--	189.50
	Remarks: Wait for next plug							
13	Nov 14,2015 12:00	Establish Circulation	Water	2.00	500.0	--	10.00	10.00
14	Nov 14,2015 12:05	Pump Preflush	Water	2.00	1,000.0	--	10.00	20.00
15	Nov 14,2015 12:10	Pump Spacer	Water	2.00	1,000.0	--	10.00	30.00
16	Nov 14,2015 12:15	Pump	0:1:0 Type III	2.00	1,200.0	--	56.90	86.90
17	Nov 14,2015 13:10	Displace Fluid	Water	2.00	1,200.0	--	0.50	87.40
18	Nov 14,2015 13:30	Rig Out		--	--	--	--	87.40
19	Nov 14,2015 14:00	Job Complete		--	--	--	--	189.50
	Remarks: AAR							
20	Nov 14,2015 14:30	Leave Location		--	--	--	--	189.50

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
63797
63798
63799