



Cementing Service Report

9209141

Client Name Anadarko Petroleum Corporation	Well Name PSC 34-34	Rig Ensign Drilling Inc. 320	Job Date December 17, 2015	Call Sheet 1063353
Client Representative Mr. Edgar Chavez	Surface Well Location SE SE Sec 34:T4N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor 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):	--- @ --

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)
3.500	7.700		--	--	--	--	--	0.0	6,730.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.063	0.000	J-55	--	--	--	--	0.000	6,725.000

Products

Plug 1

From Depth (ft): 6000

To Depth (ft): 6725

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 25 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 6.72 (bbl)

Water Temperature(°F) = 40 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 50

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of ASM-3 (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6000

Wellbore Fluid

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

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Bridge Plug	6,730.000	Third Party



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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>	
740004	BODY JOB	C & A				12/17/2015 10:30	12/17/2015 14:30	
746508	BODY JOB	Baby Bulker				12/17/2015 10:30	12/17/2015 14:30	
201401	PICKUP	1 Ton				12/17/2015 10:30	12/17/2015 14:30	
Crew and Bonuses								
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>				
Leue, David (28684)	12/17/2015 10:30	12/17/2015 14:30						
Devine, Richard (29733)	12/17/2015 10:30	12/17/2015 14:30						
Hall, Andrew J (25267)	12/17/2015 10:30	12/17/2015 14:30						
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	Dec 17,2015 10:30	Arrive On Location		--	--	--	--	0.00
2	Dec 17,2015 11:00	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 17,2015 11:30	Rig in Complete		--	--	--	--	0.00
4	Dec 17,2015 12:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 17,2015 12:45	Batch Mix	Thermal 35	5.00	250.0	--	6.72	6.72
6	Dec 17,2015 13:03	Pressure Test Start	Water	1.00	3,000.0	--	2.00	8.72
7	Dec 17,2015 13:05	Pressure Test Complete		--	--	--	--	8.72
8	Dec 17,2015 13:06	Establish Circulation	Water	5.00	1,000.0	--	2.00	10.72
9	Dec 17,2015 13:08	Pump	Thermal 35	6.72	1,000.0	--	2.00	12.72
10	Dec 17,2015 13:12	Displace Fluid	Water	2.00	1,000.0	--	17.88	30.60
11	Dec 17,2015 13:30	Wash	Water	--	--	--	--	30.60
12	Dec 17,2015 13:45	Rig Out		--	--	--	--	30.60
13	Dec 17,2015 14:15	Job Complete		--	--	--	--	30.60
Remarks: AAR								
14	Dec 17,2015 14:30	Leave Location		--	--	--	--	30.60
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								
<u>Material Transfer Sheet Number</u>								
63087								



Cementing Service Report

9208150

Client Name Anadarko Petroleum Corporation	Well Name PSC 34-34	Rig Ensign Drilling Inc. 320	Job Date December 18, 2015	Call Sheet 1063364
Client Representative Mr. Edgar Chavez	Surface Well Location SE SE Sec 34:T4N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Prigmore, Dominic (27161)

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)
9.125	--	3,700.000	4,280.000	--	--

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	20.06	8.097	9.625	0.0	315.0
3.500	7.700	---	--	--	--	--	--	0.0	4,280.0

Products

Plug 1

From Depth (ft): 3700

To Depth (ft): 4280

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 230 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 47.4 (bbl)

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

+ 0.5 % of CFR-2 (Preblend),

+ 0.2 % of ASM-3 (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3700

Wellbore Fluid

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

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	3.500	Sanjel



Cementing Service Report

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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
201188	PICKUP	1 Ton				12/18/2015 06:15	12/18/2015 10:00
740082	BODY JOB	C & A				12/18/2015 06:15	12/18/2015 10:00
446171	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	12/18/2015 06:15	12/18/2015 10:00
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Prigmore, Dominic (27181)	12/18/2015 06:15		12/18/2015 10:00				
Curtner, Jerry (28310)	12/18/2015 06:15		12/18/2015 10:00				
Vitera, John (29843)	12/18/2015 06:15		12/18/2015 10:00				



Cementing Service Report

9208150

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	Dec 18, 2015 06:15	Arrive On Location		--	--	--	--	0.00
2	Dec 18, 2015 06:21	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 18, 2015 07:02	Rig in Complete		--	--	--	--	0.00
4	Dec 18, 2015 08:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 18, 2015 08:44	Pressure Test Start	Water	--	3,000.0	--	--	0.00
6	Dec 18, 2015 08:45	Pressure Test Complete	Water	--	3,000.0	--	--	0.00
		Remarks: Good Test						
7	Dec 18, 2015 08:49	Establish Circulation	Water	--	--	--	10.00	10.00
8	Dec 18, 2015 09:35	Pump Preflush	Water	2.00	400.0	--	20.00	30.00
9	Dec 18, 2015 09:44	Pump Spacer	Water	2.50	790.0	--	20.00	50.00
10	Dec 18, 2015 10:11	Mix Cement	0-1-0 G	2.50	600.0	--	47.10	97.10
		Remarks: T.O.C 3,700'						
11	Dec 18, 2015 10:36	Stop		--	--	--	--	97.10
		Remarks: Stop drop 3.5" plug						
12	Dec 18, 2015 10:38	Displace Fluid	Water	3.00	800.0	--	34.50	131.60
13	Dec 18, 2015 11:40	Job Complete		--	--	--	--	131.60
14	Dec 18, 2015 11:45	Wait On Instructions		--	--	--	--	131.60
		Remarks: Wait on wire-line.						
15	Dec 18, 2015 13:15	Leave Location		--	--	--	--	131.60

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

63096



Cementing Service Report

9210076

Client Name Anadarko Petroleum Corporation	Well Name PSC 34-34	Rig Ensign Drilling Inc. 320	Job Date December 18, 2015	Call Sheet 1063385
Client Representative Mr. Edgar Chavez	Surface Well Location SW SE Sec 34:T1N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Prigmore, Dominic (27161)

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)
9.125	--	315.000	800.000	--	--

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	20.06	8.097	9.625	0.0	315.0
3.500	7.700		--	--	--	--	--	800.0	900.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.063	3.250	J-55	7,690.000	2.680	1.751	2.325	0.000	900.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 900

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 300 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 71 (bbl)

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

+ 0.5 % of CaCl₂ (Preblend),

+ 0.25 lb/sack of LCL-7 (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



Cementing Service Report

9210076

Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201168	PICKUP	1 Ton				12/18/2015 06:15	12/18/2015 18:30
740082	BODY JOB	C & A				12/18/2015 06:15	12/18/2015 18:30
446171	TRAILER	Bulker	746089	TRACTOR	Tandem - Tractor	12/18/2015 06:15	12/18/2015 18:30
Crew and Bonuses							
Employee	Start Shift	End Shift	Second Start Shift	Second End Shift			
Prigmore, Dominic (27161)	12/18/2015 06:15	12/18/2015 18:30					
Curtner, Jerry (28310)	12/18/2015 06:15	12/18/2015 18:30					
Vitera, John (29843)	12/18/2015 06:15	12/18/2015 18:30					

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	Dec 18,2015 06:15	Arrive On Location		--	--	--	--	0.00
2	Dec 18,2015 15:15	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 18,2015 15:35	Rig in Complete		--	--	--	--	0.00
4	Dec 18,2015 15:50	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 18,2015 17:06	Pressure Test Start		--	2,200.0	--	--	0.00
6	Dec 18,2015 17:07	Pressure Test Complete	Water	--	2,200.0	--	--	0.00
		Remarks: Good P.T						
7	Dec 18,2015 17:07	Establish Circulation	Water	2.50	300.0	--	5.00	5.00
		Remarks: Circulation present						
8	Dec 18,2015 17:10	Pump Preflush	Water	2.50	300.0	--	10.00	15.00
9	Dec 18,2015 17:14	Pump Spacer	Water	2.50	300.0	--	5.00	20.00
10	Dec 18,2015 17:18	Mix Cement	0-1-0 G	3.00	300.0	--	71.00	91.00
		Remarks: Cement to surface.						
11	Dec 18,2015 17:50	Displace Fluid	Water	2.60	700.0	--	1.00	92.00
		Remarks: Displaced to clean lines.						
12	Dec 18,2015 18:15	Job Complete		--	--	--	--	92.00
13	Dec 18,2015 18:30	Leave Location		--	--	--	--	92.00
Did Float Hold: Not Applicable								
Fluid Returns : Yes								
Type : Cement								
Volume (bbl) : 3								
Temperature (°F) : 66								
FDAS Functioning Correctly : Yes								
Was the Program Followed As Per Design? : Yes								
Material Transfer Sheet Number								
Material Transfer Sheet Number								
63108								
63109								