



Pumping Service Report

9201234

Client Name Anadarko Petroleum Corporation	Well Name Graham E C 1	Rig Key 104	Job Date February 06,2015	Call Sheet 1054821
Client Representative Mr. Traux Deal	Surface Well Location NW NE Sec 12:T1N:R68W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Price, Ryan (25840)

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): --- @ --

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		--	--	--	--	--	0.0	7,000.0

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		--	--	--	--	0.000	7,000.000

Products

Plug 1

From Depth (ft): 6807

To Depth (ft): 7220

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 100 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 30 (bbl)

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

+ 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)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 6807

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	7,000.000	Third Party



Pumping Service Report

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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>
201173	PICKUP	1 Ton				02/06/2015 06:30	02/06/2015 10:30
740018-1	BODY JOB	C & A				02/06/2015 06:30	02/06/2015 10:30
446075	TRAILER	Bulker	746075	TRACTOR	Tandem - Tractor	02/06/2015 06:30	02/06/2015 10:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Price, Ryan (25840)	02/06/2015 06:30	02/06/2015 10:30		
Curtner, Jerry (28310)	02/06/2015 06:30	02/06/2015 10:30		
Phillips, James (23627)	02/06/2015 06:30	02/06/2015 10:30		
Anthony, James (30132)	02/06/2015 06:30	02/06/2015 10:30		

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	Feb 06,2015 06:30	Arrive On Location		--	--	--	--	0.00
2	Feb 06,2015 06:35	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Feb 06,2015 07:10	Rig in Complete		--	--	--	--	0.00
4	Feb 06,2015 07:15	Wait On Instructions		--	--	--	--	0.00
		Remarks: wait for company rep covering for Traux						
5	Feb 06,2015 08:50	Crew Briefing (Pre Job)		--	--	--	--	0.00
6	Feb 06,2015 08:52	Pressure Test Start		--	2,500.0	--	--	0.00
7	Feb 06,2015 08:54	Pressure Test Complete		--	--	--	--	0.00
8	Feb 06,2015 08:55	Establish Circulation	Water	2.00	650.0	--	5.00	5.00
9	Feb 06,2015 09:06	Mix Cement	1-1-0 G	2.50	500.0	--	30.00	35.00
10	Feb 06,2015 09:20	Pump Displacement	Water	2.00	500.0	--	24.00	59.00
11	Feb 06,2015 09:35	Stop		--	--	--	--	59.00
12	Feb 06,2015 09:45	Wash		--	--	--	--	59.00
13	Feb 06,2015 10:05	Rig Out		--	--	--	--	59.00
14	Feb 06,2015 10:25	Job Complete		--	--	--	--	59.00
15	Feb 06,2015 10:26	Pre-Departure Meeting		--	--	--	--	59.00
16	Feb 06,2015 10:30	Leave Location		--	--	--	--	59.00

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

55630



Pumping Service Report

9199342

Client Name Anadarko Petroleum Corporation	Well Name Graham E C 1	Rig Key 104	Job Date February 09,2015	Call Sheet 1054954
Client Representative Mr. Traux Deal	Surface Well Location NW NE Sec 12:T1N:R68W	Down Hole Well Location	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	--	4,510.000	5,420.000	--	--

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)
4.500	11.600	J-55	4,960.0	5,350.0	84.24	4.000	5.000	0.0	5,420.0

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	17.690	1.995	2.910	0.000	4,575.000

Products

Plug 1

From Depth (ft): 4300

To Depth (ft): 5420

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 630 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 128 (bbl)

Water Temperature(°F) = 46 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 55

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (Preblend),

+ 0.5 % of LWA (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 4300

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	4,575.000	Third Party



Pumping Service Report

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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>
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	02/09/2015 08:30	02/09/2015 12:00
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	02/09/2015 08:30	02/09/2015 12:00
746502	BODY JOB	Baby Bulker				02/09/2015 08:30	02/09/2015 12:00
449095	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	02/09/2015 08:30	02/09/2015 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>
Young, Craig (27496)	02/09/2015 08:30	02/09/2015 12:00		
Dunsbergen, Scott (29737)	02/09/2015 08:30	02/09/2015 12:00		
Molina, Alejandro (29922)	02/09/2015 08:30	02/09/2015 12:00		
Schneider, Patrick (24093)	02/09/2015 08:30	02/09/2015 12:00		

Treatment Reports & Remarks



Pumping Service Report

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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	Feb 09,2015 08:30	Arrive On Location		--	--	--	--	0.00
2	Feb 09,2015 08:35	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedures						
3	Feb 09,2015 09:00	Rig In		--	--	--	--	0.00
4	Feb 09,2015 09:25	Rig in Complete		--	--	--	--	0.00
5	Feb 09,2015 09:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
6	Feb 09,2015 09:56	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
7	Feb 09,2015 09:58	Pressure Test Start	Water	--	3,000.0	--	--	1.00
8	Feb 09,2015 10:00	Pressure Test Complete	Water	--	0.0	--	--	1.00
		Remarks: good pressure test						
9	Feb 09,2015 10:00	Injection Test	Water	2.00	450.0	--	5.00	6.00
		Remarks: good injection rate						
10	Feb 09,2015 10:02	Pump Preflush	Water	3.00	1,100.0	--	20.00	26.00
		Remarks: well seal						
11	Feb 09,2015 10:09	Pump Spacer	Water	2.00	700.0	--	10.00	36.00
		Remarks: fresh water spacer						
12	Feb 09,2015 10:16	Mix Cement	0-1-0 G	3.00	1,200.0	--	128.00	164.00
		Remarks: 630 sks tail cement @ 15.8 ppg yield = 1.15 h2o req = 4.98						
13	Feb 09,2015 11:03	Displace Fluid	Water	3.00	1,200.0	--	3.00	167.00
14	Feb 09,2015 11:04	Finish Displacement	Water	--	0.0	--	--	167.00
		Remarks: ISIP 0 psi						
15	Feb 09,2015 11:05	Pull Out Off Retainer		--	--	--	--	167.00
		Remarks: rig pulled out of retainer						
16	Feb 09,2015 11:10	Tailgate Meeting		--	--	--	--	167.00
		Remarks: revisited JSA						
17	Feb 09,2015 11:15	Rig Out		--	--	--	--	167.00
18	Feb 09,2015 11:25	Wash	Water	--	--	--	--	167.00
		Remarks: washed pumps and lines						
19	Feb 09,2015 11:40	Job Complete		--	--	--	--	167.00
20	Feb 09,2015 11:50	Pre-Departure Meeting		--	--	--	--	167.00
21	Feb 09,2015 12:00	Leave Location		--	--	--	--	167.00

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



Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

55735

55736

55737



Pumping Service Report

9199343

Client Name Anadarko Petroleum Corporation	Well Name Graham E C 1	Rig Key 104	Job Date February 10,2015	Call Sheet 1055012
Client Representative Mr. Traux Deal	Surface Well Location NW NE Sec 12:T1N:R68W	Down Hole Well Location	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	--	842.000	1,330.000	--	--

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	53.62	8.097	9.625	0.0	842.0
4.500	11.600	J-55	4,960.0	5,350.0	1.71	4.000	5.000	1,330.0	1,440.0

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	5.570	1.995	2.910	0.000	1,440.000

Products

Plug 1

From Depth (ft): 0

To Depth (ft): 1440

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 550 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 130 (bbl)

Water Temperature(°F) = 53 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 69

+ 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: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22



Pumping Service Report

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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>
449095	TRAILER	Utility Trailer	201273	PICKUP	3/4 Ton	02/10/2015 11:30	02/10/2015 15:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	02/10/2015 11:30	02/10/2015 15:00
446172	TRAILER	Bulker	746172	TRACTOR	Tandem - Tractor	02/10/2015 11:30	02/10/2015 15:00
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)	02/10/2015 11:30	02/10/2015 15:00					
Young, Craig (27496)	02/10/2015 11:30	02/10/2015 15:00					
Devine, Richard (29733)	02/10/2015 11:30	02/10/2015 15:00					
Hall, Austin (28887)	02/10/2015 11:30	02/10/2015 15:00					



Pumping Service Report

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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	Feb 10,2015 11:30	Arrive On Location		--	--	--	--	0.00
2	Feb 10,2015 11:35	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedures						
3	Feb 10,2015 12:00	Rig In		--	--	--	--	0.00
4	Feb 10,2015 12:25	Rig in Complete		--	--	--	--	0.00
5	Feb 10,2015 12:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
6	Feb 10,2015 12:50	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
7	Feb 10,2015 12:51	Pressure Test Start	Water	--	3,000.0	--	--	1.00
8	Feb 10,2015 12:53	Pressure Test Complete	Water	--	0.0	--	--	1.00
		Remarks: good pressure test						
9	Feb 10,2015 12:53	Establish Circulation	Water	2.00	600.0	--	5.00	6.00
10	Feb 10,2015 13:00	Pump Preflush	Water	2.30	675.0	--	10.00	16.00
		Remarks: mud flush						
11	Feb 10,2015 13:07	Pump Spacer	Water	2.30	675.0	--	10.00	26.00
		Remarks: fresh water spacer						
12	Feb 10,2015 13:07	Mix Cement	0:1:0 Type III	2.30	400.0	--	130.00	156.00
		Remarks: 550 sks tail cement @ 14.8 ppg yield = 1.33 h2o req = 6.31						
13	Feb 10,2015 14:09	Wash	Water	--	--	--	3.00	156.00
		Remarks: washed pumps and lines						
14	Feb 10,2015 14:13	Displace Fluid	Water	1.00	650.0	--	1.00	157.00
		Remarks: displaced to balance						
15	Feb 10,2015 14:14	Balance Plug	Water	--	0.0	--	--	157.00
16	Feb 10,2015 14:15	Tailgate Meeting		--	--	--	--	157.00
		Remarks: revisited JSA						
17	Feb 10,2015 14:20	Rig Out		--	--	--	--	157.00
18	Feb 10,2015 14:45	Job Complete		--	--	--	--	157.00
19	Feb 10,2015 14:50	Pre-Departure Meeting		--	--	--	--	157.00
20	Feb 10,2015 15:00	Leave Location		--	--	--	--	157.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 2

Temperature (°F) : 70

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

55501

55502