



**Pumping
Service Report**

9200720

Client Name Anadarko Petroleum Corporation	Well Name Gurtler H 24 - 21	Rig BWS 14	Job Date December 18, 2014	Call Sheet 1052305
Client Representative Mr. Edgar Chavez	Surface Well Location NW SE Sec 24:T3N:R65W	Down Hole Well Location	Job Type Abandonment Plugs	

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	---	--	--	--	--	--	0.0	7,020.0

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	0.000	---	--	--	--	--	0.000	7,020.000

Products

Plug 1

From Depth (ft): 7020
To Depth (ft): 6247
Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 40 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 10.8 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 0.3 % of CFR-2 (Preblend),
+ 0.3 % of ASM-3 (Preblend)

Plug 2

From Depth (ft): 4220
To Depth (ft): 3791
Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 30 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 6 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 0.5 % of CFR-2 (Preblend),
+ 0.2 % of FMC (Preblend),
+ 0.5 % of LWA (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3791

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 08, 2014 16:26



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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	200868	PICKUP	3/4 Ton	12/18/2014 09:00	12/18/2014 14:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	12/18/2014 09:00	12/18/2014 14:30
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	12/18/2014 09:00	12/18/2014 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>
Hansen, Kevin	12/18/2014 09:00	12/18/2014 14:30		
Yates, William	12/18/2014 09:00	12/18/2014 14:30		
Cox, Brandon	12/18/2014 09:00	12/18/2014 14:30		
Decenick, Scott	12/18/2014 09:00	12/18/2014 14:30		
Heye, Joshua	12/18/2014 09:00	12/18/2014 14:30		

Treatment Reports & Remarks



Pumping Service Report

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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, 2014 09:00	Arrive On Location	---	--	--	--	--	0.00
2	Dec 18, 2014 09:10	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Discussed spotting trucks and safety concerns						
3	Dec 18, 2014 09:45	Rig In	---	--	--	--	--	0.00
4	Dec 18, 2014 11:00	STEACS Briefing	---	--	--	--	--	0.00
		Remarks: Discussed job and all safety concerns with rig crew						
5	Dec 18, 2014 11:15	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: Signed our JSA and the rigs JSA						
6	Dec 18, 2014 11:25	Start - Fluid	Water	2.00	450.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
7	Dec 18, 2014 11:26	Pressure Test	---	--	2,000.0	--	--	2.00
8	Dec 18, 2014 11:28	Pump Preflush	---	2.00	500.0	--	8.00	10.00
		Remarks: Pumped fresh water ahead						
9	Dec 18, 2014 11:45	Mix Cement	Thermal 35	2.00	450.0	--	10.80	20.80
		Remarks: Pumped @ D-15.8						
10	Dec 18, 2014 11:52	Pump Displacement	Water	2.00	400.0	--	24.00	44.80
11	Dec 18, 2014 12:00	Stop	---	--	--	--	--	44.80
12	Dec 18, 2014 12:12	Wait On Instructions	---	--	--	--	--	44.80
		Remarks: Waited for rig to pull tubing						
13	Dec 18, 2014 13:15	Start - Fluid	Water	2.00	300.0	--	2.00	2.00
		Remarks: Filled lines for pressure test						
14	Dec 18, 2014 13:17	Pressure Test	---	--	2,000.0	--	--	2.00
15	Dec 18, 2014 13:20	Pump Preflush	Water	2.00	300.0	--	8.00	10.00
		Remarks: Pumped fresh water						
16	Dec 18, 2014 13:25	Mix Cement	0-1-0 G	2.00	300.0	--	6.00	16.00
		Remarks: Pumped @ D-15.8						
17	Dec 18, 2014 13:31	Pump Displacement	Water	2.00	150.0	--	14.00	30.00
18	Dec 18, 2014 13:40	Wash	---	--	--	--	--	30.00
19	Dec 18, 2014 14:00	Rig Out	---	--	--	--	--	30.00
20	Dec 18, 2014 14:10	Job Complete	---	--	--	--	--	30.00
21	Dec 18, 2014 14:20	Pre-Departure Meeting	---	--	--	--	--	30.00
		Remarks: Discussed journey management						
22	Dec 18, 2014 14:30	Leave Location	---	--	--	--	--	30.00
		Remarks: Headed to Sanjel yard						

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



Pumping Service Report

9200700

Client Name Anadarko Petroleum Corporation	Well Name Gurtler H 24-21	Rig BWS 14	Job Date December 19, 2014	Call Sheet 1052354
Client Representative Mr. Edgar Chavez	Surface Well Location NW SE Sec 24:T3N:R65W	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)
8.500	--	686.000	1,230.000	--	--

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	43.69	8.097	9.625	0.0	686.0

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	4.760	1.995	2.910	0.000	1,230.000

Products

Plug 1

From Depth (ft): 374

To Depth (ft): 1230

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 260 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 62 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 70

+ 0.25 lb/sack of Polyflake (Preblend),

+ 0.5 % of CaCl₂ (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: Depth (ft): 374

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 08, 2014 17:28



9200700

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>
201274	PICKUP	3/4 Ton				12/19/2014 14:00	12/19/2014 16:30
740077	BODY JOB	C & A				12/19/2014 14:00	12/19/2014 16:30
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	12/19/2014 14:00	12/19/2014 16:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Schneider, Patrick (24093)	12/19/2014 14:00	12/19/2014 16:30		
Curtner, Jerry (28310)	12/19/2014 14:00	12/19/2014 16:30		
Davila, Israel (28152)	12/19/2014 14:00	12/19/2014 16:30		

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 19,2014 14:00	Arrive On Location		--	--	--	--	0.00
2	Dec 19,2014 14:05	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: discussed lease hazards and rig in procedure						
3	Dec 19,2014 14:20	Rig In		--	--	--	--	0.00
4	Dec 19,2014 14:30	Rig in Complete		--	--	--	--	0.00
5	Dec 19,2014 14:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: discussed job scope and everyones dutys						
6	Dec 19,2014 14:46	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: filled lines						
7	Dec 19,2014 14:48	Pressure Test Start	Water	--	2,000.0	--	--	1.00
8	Dec 19,2014 14:50	Pressure Test Complete	Water	--	--	--	--	1.00
		Remarks: good pressure test						
9	Dec 19,2014 14:51	Pump Preflush	Water	2.00	200.0	--	10.00	11.00
		Remarks: mud flush						
10	Dec 19,2014 14:56	Pump Spacer	Water	2.00	200.0	--	10.00	21.00
		Remarks: fresh water spacer						
11	Dec 19,2014 15:01	Mix Cement	0:1:0 Type III	2.00	450.0	--	62.00	83.00
		Remarks: plug cement @ 14.8 ppg yield = 1.33 h2o req = 6.31						
12	Dec 19,2014 15:37	Displace Fluid	Water	2.00	425.0	--	15.00	98.00
		Remarks: displaced to balance						
13	Dec 19,2014 15:38	Balance Plug	Water	--	--	--	--	98.00
14	Dec 19,2014 15:40	Tailgate Meeting		--	--	--	--	98.00
		Remarks: revisited JSA						
15	Dec 19,2014 15:45	Rig Out		--	--	--	--	98.00
16	Dec 19,2014 15:55	Wash	Water	--	--	--	--	98.00
17	Dec 19,2014 16:15	Job Complete		--	--	--	--	98.00
18	Dec 19,2014 16:25	Pre-Departure Meeting		--	--	--	--	98.00
19	Dec 19,2014 16:30	Leave Location		--	--	--	--	98.00

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

55299

55300