



Pumping Service Report

9199307

Client Name Anadarko Petroleum Corporation	Well Name Gurtler H 24-24	Rig BWS 14	Job Date December 21, 2014	Call Sheet 1052440
Client Representative Mr. Edgar Chavez	Surface Well Location NW SE Sec 24:T3N:R65W	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): --- @ --

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	N-80	6,350.0	7,780.0	105.53	4.000	5.000	0.0	6,790.0

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		--	--	--	--	0.000	6,780.000
2.375	4.700		--	--	--	--	0.000	4,590.000

Products

Plug 1

From Depth (ft): 6348

To Depth (ft): 6780

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 25 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 6.7 (bbl)

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

+ 0.3 % of CFR-2 (Preblend),

+ 0.3 % of ASM-3 (Preblend)

Plug 2

From Depth (ft): 4203

To Depth (ft): 4590

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 30 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 6.1 (bbl)

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

+ 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): 4203

Wellbore Fluid

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



Pumping Service Report

9199307

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>
201273	PICKUP	3/4 Ton				12/21/2014 09:00	12/21/2014 14:00
740018-1	BODY JOB	C & A				12/21/2014 09:00	12/21/2014 14:00
446092	TRAILER	Bulker	746092	TRACTOR	Tandem - Tractor	12/21/2014 09:00	12/21/2014 14:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>		<u>Second Start Shift</u>		<u>Second End Shift</u>
Price, Ryan (25840)	12/21/2014 09:00		12/21/2014 14:00				
Curtner, Jerry (28310)	12/21/2014 09:00		12/21/2014 14:00				
Daylong, Eric (28076)	12/21/2014 09:00		12/21/2014 14:00				



Pumping Service Report

9199307

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 21, 2014 09:00	Arrive On Location		--	--	--	--	0.00
2	Dec 21, 2014 09:05	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Dec 21, 2014 09:50	Rig in Complete		--	--	--	--	0.00
4	Dec 21, 2014 10:15	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Dec 21, 2014 10:33	Pressure Test Start		--	1,800.0	--	--	0.00
6	Dec 21, 2014 10:36	Pressure Test Complete		--	--	--	--	0.00
7	Dec 21, 2014 10:37	Establish Circulation	Water	2.00	300.0	--	15.00	15.00
8	Dec 21, 2014 10:56	Mix Cement	Thermal 35	2.00	300.0	--	6.70	21.70
9	Dec 21, 2014 11:00	Pump Displacement	Water	2.00	250.0	--	23.50	45.20
10	Dec 21, 2014 11:12	Stop		--	--	--	--	45.20
Remarks: wait for next plug								
11	Dec 22, 2014 11:15	Job Complete		--	--	--	--	45.20
12	Dec 22, 2014 12:21	Pressure Test Lines		--	1,800.0	--	--	0.00
13	Dec 21, 2014 12:23	Establish Circulation	Water	2.00	350.0	--	5.00	5.00
14	Dec 21, 2014 12:35	Mix Cement	0-1-0 G	2.00	400.0	--	6.00	11.00
15	Dec 21, 2014 12:40	Pump Displacement	Water	2.00	30.0	--	14.00	25.00
16	Dec 21, 2014 12:48	Stop		--	--	--	--	25.00
17	Dec 21, 2014 13:00	Wash		--	--	--	--	25.00
18	Dec 21, 2014 13:20	Rig Out		--	--	--	--	25.00
19	Dec 21, 2014 13:45	Job Complete		--	--	--	--	25.00
20	Dec 21, 2014 14:00	Leave Location		--	--	--	--	25.00

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

55322

55326



Pumping Service Report

9201551

Client Name Anadarko Petroleum Corporation	Well Name Gurtler H 24-24	Rig BWS 14	Job Date December 23, 2014	Call Sheet 1052521
Client Representative Mr. Edgar Chavez	Surface Well Location NW SE Sec 24:T3N:R65W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Hansen, Kevin (27592)

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	--	715.000	1,220.000	--	--

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	N-80	6,350.0	7,780.0	1.09	4.000	5.000	1,220.0	1,290.0
8.625	24.000	J-55	1,370.0	2,950.0	45.54	8.097	9.625	0.0	715.0

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	1,290.000

Products

Plug 1

From Depth (ft): 263

To Depth (ft): 1290

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 280 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 66.3 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 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): 263

Wellbore Fluid

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



9201551

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				12/23/2014 07:00	12/23/2014 10:00
740077	BODY JOB	C & A				12/23/2014 07:00	12/23/2014 10:00
446075	TRAILER	Bulker	746075	TRACTOR	Tandem - Tractor	12/23/2014 07:00	12/23/2014 10:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hansen, Kevin (27592)	12/23/2014 07:00	12/23/2014 10:00		
Cheal, Samuel (28315)	12/23/2014 07:00	12/23/2014 10:00		
Davila, Israel (28152)	12/23/2014 07:00	12/23/2014 10:00		

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	Dec 23,2014 07:00	Arrive On Location		--	--	--	--	0.00
2	Dec 23,2014 07:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Discussed spotting trucks and rig in- Filled out JSA						
3	Dec 23,2014 07:25	Rig in Complete		--	--	--	--	0.00
4	Dec 23,2014 07:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Signed our JSA and the crews JSA						
5	Dec 23,2014 07:40	Establish Circulation	Water	2.00	200.0	--	4.00	4.00
		Remarks: Filled lines for pressure test						
6	Dec 23,2014 07:55	Pressure Test Start		--	2,000.0	--	--	4.00
7	Dec 23,2014 07:57	Pressure Test Complete		--	--	--	--	4.00
8	Dec 23,2014 08:00	Pump	Water	3.00	500.0	--	10.00	14.00
		Remarks: Pumped Mud Flush SAPP						
9	Dec 23,2014 08:04	Pump Spacer	Water	3.00	500.0	--	10.00	24.00
		Remarks: Pumped fresh water spacer						
10	Dec 23,2014 09:01	Mix Cement	0:1:0 Type III	3.00	1,000.0	--	66.30	90.30
		Remarks: Pumped slurry @ 14.8						
11	Dec 23,2014 08:27	Pump Displacement	Water	2.00	900.0	--	2.00	92.30
12	Dec 23,2014 08:35	Job Complete		--	--	--	--	92.30
13	Dec 23,2014 09:10	Rig Out		--	--	--	--	92.30
14	Dec 23,2014 09:45	Pre-Departure Meeting		--	--	--	--	92.30
15	Dec 23,2014 10:00	Leave Location		--	--	--	--	92.30

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

55346

55347