



**Pumping
Service Report**

9198776

Client Name Anadarko Petroleum Corporation	Well Name HSR Sawdy 14-26	Rig ECWS 7	Job Date September 16, 2014	Call Sheet 1047145
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 36:T4N:R56W	Down Hole Well Location	Job Type Circulation Squeeze	

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 (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
9.000	10.000	0.000	4,071.000	--	--

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	J-55	7,680.000	23.560	2.441	3.668	0.000	4,071.000

Products

Plug 1

From Depth (ft): 3810

To Depth (ft): 4071

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 100 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 20.48 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 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: --					
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 01, 2014 06:24



**Pumping
Service Report**

9198776

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>
201191	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	09/16/2014 12:00	09/16/2014 15:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	09/16/2014 12:00	09/16/2014 15:00
446172	TRAILER	Bulker	746172	TRACTOR	Tandem - Tractor	09/16/2014 12:00	09/16/2014 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>
Hall, Andrew J	09/16/2014 12:00	09/16/2014 15:00		
Doran, Benjamin	09/16/2014 12:00	09/16/2014 15:00		
Leue, David	09/16/2014 12:00	09/16/2014 15:00		
Melgarejo Herrera, Eduardo	09/16/2014 12:00	09/16/2014 15:00		

Treatment Reports & Remarks

Treatment Report

<u>Event #</u>	<u>Event Time</u>	<u>Event Description</u>	<u>Fluid Type</u>	<u>Rate</u> <i>(bbl/min)</i>	<u>Tubular Pressure</u> <i>(psi)</i>	<u>Annular Pressure</u> <i>(psi)</i>	<u>Stage Volume</u> <i>(bbl)</i>	<u>Total Volume</u> <i>(bbl)</i>
1	Sep 16, 2014 12:00	Arrive On Location	---	--	--	--	--	0.00
2	Sep 16, 2014 12:15	Tailgate Meeting	---	--	--	--	--	0.00
3	Sep 16, 2014 12:30	Rig In	---	--	--	--	--	0.00
4	Sep 16, 2014 12:50	Safety Meeting	---	--	--	--	--	0.00
5	Sep 16, 2014 13:00	Sign-off on Safety	---	--	--	--	--	0.00
6	Sep 16, 2014 13:05	Pressure Test	Water	1.00	3,000.0	--	1.00	1.00
7	Sep 16, 2014 13:10	Pump Preflush	Water	2.00	300.0	--	20.00	21.00
Remarks: SMS								
8	Sep 16, 2014 13:18	Pump Spacer	Water	5.00	300.0	--	2.00	23.00
9	Sep 16, 2014 13:22	Pump	0-1-0 G	2.00	400.0	--	20.48	43.48
10	Sep 16, 2014 13:40	Displace Fluid	Water	2.00	400.0	--	22.00	65.48
11	Sep 16, 2014 14:10	Wash	Water	2.00	22.0	--	20.00	85.48
12	Sep 16, 2014 14:40	Rig Out	---	--	--	--	--	85.48
13	Sep 16, 2014 15:00	Job Complete	---	--	--	--	--	85.48
14	Sep 16, 2014 15:15	Leave Location	---	--	--	--	--	85.48
15	Sep 16, 2014 15:10	Pre-Departure Meeting	---	--	--	--	--	85.48

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



**Pumping
Service Report**

9198754

Client Name Anadarko Petroleum Corporation	Well Name HSR Sawdy 14-26	Rig ECWS 7	Job Date September 17, 2014	Call Sheet 1047225
Client Representative Mr. Dave Donoho	Surface Well Location SE SW Sec 36:T4N:R56W	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):	--- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
10.000	--	468.000	1,250.000	--	--

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	---	--	--	--	--	--	0.0	468.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	6.500	---	--	--	--	--	0.000	1,241.000

Products

Plug 1

From Depth (ft): 0
To Depth (ft): 1241
Plug Type : Abandonment
Acids/Blends/Fluids :
Plug: 400 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 94 (bbl)
Water Temperature(°F) = 70 , Bulk Temperature(°F) = 70 , 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: --					
Wellbore Fluid					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	8.400	--	--	Aug 01, 2014 06:24



**Pumping
Service Report**

9198754

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>
449087	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	09/17/2014 10:00	09/17/2014 13:00
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	09/17/2014 10:00	09/17/2014 13:00
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	09/17/2014 10:00	09/17/2014 13:00

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	09/17/2014 10:00	09/17/2014 13:00		
Cox, Brandon	09/17/2014 10:00	09/17/2014 13:00		
Hansen, Ted	09/17/2014 10:00	09/17/2014 13:00		
Smock, Curtis	09/17/2014 10:00	09/17/2014 13:00		

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	Sep 17, 2014 10:00	Arrive On Location	---	--	--	--	--	0.00
2	Sep 17, 2014 10:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Sep 17, 2014 10:10	Rig In	---	--	--	--	--	0.00
4	Sep 17, 2014 10:33	Safety Meeting	---	--	--	--	--	0.00
5	Sep 17, 2014 10:43	Sign-off on Safety	---	--	--	--	--	0.00
6	Sep 17, 2014 10:47	Pump	Water	1.50	25.0	--	1.00	0.00
		Remarks: filled lines for pressure test						
7	Sep 17, 2014 10:48	Pressure Test	---	--	2,000.0	--	--	0.00
8	Sep 17, 2014 10:51	Establish Circulation	Water	2.00	25.0	--	10.00	0.00
9	Sep 17, 2014 10:57	Mix Cement	0:1:0 Type III	3.00	150.0	--	94.00	0.00
		Remarks: cement to surface at 85 bbls away						
10	Sep 17, 2014 11:33	Pump Displacement	Water	2.00	200.0	--	1.00	0.00
11	Sep 17, 2014 11:34	Stop	---	--	--	--	--	0.00
12	Sep 17, 2014 11:45	Wash	---	--	--	--	--	0.00
13	Sep 17, 2014 12:25	Rig Out	---	--	--	--	--	0.00
14	Sep 17, 2014 12:50	Job Complete	---	--	--	--	--	0.00
15	Sep 17, 2014 12:55	Pre-Departure Meeting	---	--	--	--	--	0.00
16	Sep 17, 2014 13:00	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Not Applicable
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 9
Temperature (°F) : 70
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes