



# Pumping Service Report

9188736

Client Name Anadarko Petroleum Corporation	Well Name HSR B/R D 7-20	Rig Ensign Drilling Inc. 320	Job Date August 21, 2014	Call Sheet 1045931
Client Representative Derrick Powell	Surface Well Location SW NE Sec 20:T3N:R67W	Down Hole Well Location	Job Type Miscellaneous Pumping	

## 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):	--- @ ---

## Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	---	--	--	--	--	0.000	6,950.000
1.315	0.000	---	--	--	--	--	0.000	6,935.000

## Products

### Plug 1

From Depth (ft): 6331

To Depth (ft): 6935

Plug Type : Well Stability

Acids/Blends/Fluids :

Tail: 13 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 3.5 (bbl)

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

+ 0.5 % of CFR-2 (Preblend),

+ 0.25 % of FMC (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 21, 2014 09:09

## Units & Personnel

### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201191	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	08/21/2014 11:15	08/21/2014 13:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	08/21/2014 11:15	08/21/2014 13:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	08/21/2014 11:15	08/21/2014 13:30

### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Price, Ryan	08/21/2014 11:15	08/21/2014 13:30		
Cheal, Samuel	08/21/2014 11:15	08/21/2014 13:30		
Hansen, Ted	08/21/2014 11:15	08/21/2014 13:30		
Wright, Isaac	08/21/2014 11:15	08/21/2014 13:30		

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

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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	Aug 21, 2014 11:15	Arrive On Location	---	--	--	--	--	0.00
2	Aug 21, 2014 11:20	Tailgate Meeting	---	--	--	--	--	0.00
3	Aug 21, 2014 11:25	Rig In	---	--	--	--	--	0.00
4	Aug 21, 2014 11:55	Safety Meeting	---	--	--	--	--	0.00
5	Aug 21, 2014 12:05	Sign-off on Safety	---	--	--	--	--	0.00
6	Aug 21, 2014 12:05	Pump	Water	--	--	--	1.00	0.00
Remarks: filled lines for pressure test								
7	Aug 21, 2014 12:13	Pressure Test	---	--	2,500.0	--	--	0.00
8	Aug 21, 2014 12:15	Establish Circulation	---	1.30	1,300.0	--	7.00	0.00
9	Aug 21, 2014 12:23	Mix Cement	Thermal 35	1.30	1,400.0	--	3.50	0.00
10	Aug 21, 2014 12:25	Pump Displacement	Water	1.30	30.0	--	5.20	0.00
Remarks: at 3 bbls away balanced with boost pump only								
11	Aug 21, 2014 12:30	Stop	---	--	--	--	--	0.00
12	Aug 21, 2014 12:40	Wash	---	--	--	--	--	0.00
13	Aug 21, 2014 13:10	Rig Out	---	--	--	--	--	0.00
14	Aug 21, 2014 13:20	Job Complete	---	--	--	--	--	0.00
15	Aug 21, 2014 13:25	Pre-Departure Meeting	---	--	--	--	--	0.00
16	Aug 21, 2014 13:30	Leave Location	---	--	--	--	--	0.00

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

46889

**Comments To Service Report**

Job went great. fast rig in, no spills on location. good product delivery. company rep happy with job