



Pumping Service Report

9201440

Client Name Anadarko Petroleum Corporation	Well Name I & J 7 - 6	Rig Ensign Drilling Inc. 328	Job Date January 21,2015	Call Sheet 1053902
Client Representative Mr. Rodrigo Vierra	Surface Well Location SW NE Sec 6:T1N:R68W	Down Hole Well Location	Job Type Cement Misc.	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	--	684.000	1,800.000	--	--

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	43.56	8.097	9.625	0.0	684.0
4.500	11.600	J-55	4,960.0	5,350.0	27.98	4.000	5.000	0.0	1,800.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
1.660	2.330	J-55	8,490.000	3.330	1.380	1.880	0.000	1,800.000

Products

Stage 1

From Depth (ft): 800

To Depth (ft): 1800

Acids/Blends/Fluids :

Tail: 310 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 73.5 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 30 , Slurry Temperature(°F) = 55

+ 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: Depth (ft): 800

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Aug 24, 2014 17:22
Water Based Mud	--	--	--	--	Jan 21, 2015 12:52



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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				01/21/2015 09:30	01/21/2015 13:00
740004	BODY JOB	C & A				01/21/2015 09:30	01/21/2015 13:00
446024	TRAILER	Bulker	746024	TRACTOR	Tandem - Tractor	01/21/2015 09:30	01/21/2015 13:00
200910	PICKUP	1/2 Ton				01/21/2015 09:30	01/21/2015 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>			
Schneider, Patrick (24093)	01/21/2015 09:30	01/21/2015 13:00					
Laeger, Kacey (25046)	01/21/2015 09:30	01/21/2015 13:00					
Davila, Israel (28152)	01/21/2015 09:30	01/21/2015 13:00					
Peterson, Ryan (28158)	01/21/2015 09:30	01/21/2015 13:00					
Spirek, Matthew (26921)	01/21/2015 09:30	01/21/2015 13:00					
Schroeder, Stephen (25442)	01/21/2015 09:30	01/21/2015 13:00					

Treatment Reports & Remarks



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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	Jan 21,2015 10:30	Start - Fluid	Water Based Mud	1.00	--	--	1.00	1.00
		Remarks: filled lines						
2	Jan 21,2015 09:30	Arrive On Location		--	--	--	--	1.00
3	Jan 21,2015 09:35	Crew Briefing (Rig in)		--	--	--	--	1.00
4	Jan 21,2015 09:55	Rig In		--	--	--	--	1.00
5	Jan 21,2015 10:05	Rig in Complete		--	--	--	--	1.00
6	Jan 21,2015 10:10	Crew Briefing (Pre Job)		--	--	--	--	1.00
7	Jan 21,2015 10:31	Pressure Test Start	Water Based Mud	--	3,000.0	--	--	1.00
8	Jan 21,2015 10:33	Pressure Test Complete	Water Based Mud	--	--	--	--	1.00
		Remarks: good pressure test						
9	Jan 21,2015 10:33	Pump	Water Based Mud	2.50	1,600.0	--	40.00	41.00
10	Jan 21,2015 10:45	Wait On Instructions		--	--	--	--	41.00
		Remarks: waited for rig to pull tubing						
11	Jan 21,2015 11:01	Start - Fluid	Water	1.00	--	--	1.00	42.00
		Remarks: filled lines						
12	Jan 21,2015 11:02	Pressure Test Lines	Water	--	3,000.0	--	--	42.00
		Remarks: good pressure test						
13	Jan 21,2015 11:04	Pump Preflush	Water	2.50	1,200.0	--	5.00	47.00
		Remarks: fresh water preflush						
14	Jan 21,2015 11:06	Pump Preflush	Water	2.50	1,200.0	--	20.00	67.00
		Remarks: well seal						
15	Jan 21,2015 11:14	Pump Spacer	Water	2.50	400.0	--	5.00	72.00
		Remarks: fresh water spacer						
16	Jan 21,2015 11:17	Mix Cement	0:1:0 Type III	2.00	1,100.0	--	73.50	145.50
		Remarks: tail cement @ 14.8 ppg yield = 1.33 h2o req = 6.31						
17	Jan 21,2015 12:13	Displace Fluid	Water	1.50	1,350.0	--	3.00	148.50
18	Jan 21,2015 12:15	Finish Displacement	Water	--	550.0	--	--	148.50
		Remarks: ISIP 500 psi						
19	Jan 21,2015 12:20	Tailgate Meeting		--	--	--	--	148.50
		Remarks: revisited JSA						
20	Jan 21,2015 12:30	Rig Out		--	--	--	--	148.50
21	Jan 21,2015 12:35	Wait on Cement	Water	--	--	--	--	148.50
22	Jan 21,2015 12:50	Job Complete		--	--	--	--	148.50
23	Jan 21,2015 12:50	Pre-Departure Meeting		--	--	--	--	148.50
24	Jan 21,2015 13:00	Leave Location		--	--	--	--	148.50



Treatment Reports & Remarks

Did Float Hold: Not Applicable
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 1
Temperature (°F) : 55
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

55194

55195