



Pumping Service Report

9188040

Client Name Whiting Petroleum Corp.	Well Name Razor 26K-2305A	Job Date March 03,2014	Call Sheet 1039163
Client Representative Mr Kinny Wilkerson	Location Sec 26:T10N:R58W	Job Type Surface Casing	Rig Frontier 26

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					
<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>
13.500	25.000	0.000	1,500.000	--	--

Casing									
<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
9.625	36.000	J-55	2,020.0	3,520.0	115.96	8.921	10.625	0.0	1,500.0

Products

Stage 1	
From Depth (ft):	0
To Depth (ft):	1518
Acids/Blends/Fluids :	
Tail: 635 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 166.2 (bbl)	
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60	
+ 1 % of CaCl2 (Preblend),	
+ 0.25 lb/sack of Polyflake (Preblend)	
Stage 2	
From Depth (ft):	
To Depth (ft):	
Acids/Blends/Fluids :	

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	--	8.340	--	--	Mar 02, 2014 12:44

Attachment & Tools

Tubular Plugs		
<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	Client



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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>
449087	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	03/03/2014 07:15	03/03/2014 15:00
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	03/03/2014 07:15	03/03/2014 15:00
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	03/03/2014 07:15	03/03/2014 15:00
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	03/03/2014 07:15	03/03/2014 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>
Hardwick, Waco	03/03/2014 07:15	03/03/2014 15:00		
Feigenbaum, Andrew	03/03/2014 07:15	03/03/2014 15:00		
Contreras, Bennie	03/03/2014 07:15	03/03/2014 15:00		
Haase, Jon	03/03/2014 07:15	03/03/2014 15:00		
Daylong, Eric	03/03/2014 07:15	03/03/2014 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>	<u>Tubular Pressure</u>	<u>Annular Pressure</u>	<u>Stage Volume</u>	<u>Total Volume</u>	
				(<u>bbbl/min</u>)	(<u>psi</u>)	(<u>psi</u>)	(<u>bbbl</u>)	(<u>bbbl</u>)	
1	Mar 03,2014 07:15	Arrive On Location		--	--	--	--	0.00	
2	Mar 03,2014 07:30	Tailgate Meeting		--	--	--	--	0.00	
3	Mar 03,2014 08:40	Rig In		--	--	--	--	0.00	
4	Mar 03,2014 10:05	Safety Meeting		--	--	--	--	0.00	
5	Mar 03,2014 10:25	Sign-off on Safety		--	--	--	--	0.00	
6	Mar 03,2014 10:45	Pressure Test	Water	0.30	3,800.0	0.0	0.50	0.50	
7	Mar 03,2014 10:47	Pump Preflush	Water	6.00	300.0	0.0	20.00	20.50	
		Remarks: Fresh water ahead.							
8	Mar 03,2014 10:50	Pump	0:1:0 Type III	3.50	250.0	0.0	185.00	205.50	
9	Mar 03,2014 12:09	Drop Plug		--	--	--	--	205.50	
10	Mar 03,2014 12:11	Displace Fluid	Water	7.50	550.0	0.0	117.50	323.00	
		Remarks: Bumped plug @ 1100 psi. at calculated displacement of 117.2							
11	Mar 03,2014 12:40	Wash	Water	2.00	--	--	25.00	0.00	
12	Mar 03,2014 13:35	Rig Out		--	--	--	--	0.00	
13	Mar 03,2014 14:30	Job Complete		--	--	--	--	0.00	
14	Mar 03,2014 14:50	Pre-Departure Meeting		--	--	--	--	0.00	
15	Mar 03,2014 15:00	Leave Location		--	--	--	--	0.00	



Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 52
Temperature (°F) : 60
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

44366

44367