



# Pumping Service Report

9191316

Client Name Whiting Petroleum Corp.	Well Name Razor 26I-2313A	Rig Frontier Drilling 26	Job Date May 26, 2014	Call Sheet 1042346
Client Representative Kenny Wilkerson	Surface Well Location Sec 26:T10N:R58W	Down Hole Well Location	Job Type Liner Casing	

## Well Profile

Well Type:	Oil			
Maximum Treating Pressure (psi):	---			
Predicted Bottom Hole Static Temperature (°F):	200.00	@	--	
Bottom Hole Circulating Temperature (°F):	200.00	@	--	
Bottom Hole Logged Temperature (°F):	---	@	--	

## Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
13.500	25.000	0.000	1,570.000	--	--

## 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)
9.625	36.000	J-55	2,020.0	3,520.0	120.25	8.921	10.625	0.0	1,555.4

## Products

### Stage 1

From Depth (ft): 0

To Depth (ft): 1570

Acids/Blends/Fluids:

Tail: 665 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 185 (bbl)  
Water Temperature(°F) = 60, Bulk Temperature(°F) = 60, Slurry Temperature(°F) = 60  
+ 1 % of CaCl<sub>2</sub> (Preblend),  
+ 0.25 lb/sack of Polyflake (Preblend)

Drilling Mud: 34.3 bbl of Base Oil

## Fluid & Cement Data

Expected Cement Top: Surface

### Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	May 20, 2014 04:37

## Attachment & Tools

### Down Hole Tools

Tool Type	Depth (ft)	Supplier
Float Collar	1,509.300	Third Party
Guide Shoe	1,553.400	Third Party

### Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Sanjel



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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>
449095	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	05/26/2014 08:30	05/26/2014 15:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	05/26/2014 08:30	05/26/2014 15:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	05/26/2014 08:30	05/26/2014 15:30
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	05/26/2014 08:30	05/26/2014 15:30

**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	05/26/2014 08:30	05/26/2014 15:30		
Morris, Theodore	05/26/2014 08:30	05/26/2014 15:30		
Young, Craig	05/26/2014 08:30	05/26/2014 15:30		
Jones, Christopher	05/26/2014 08:30	05/26/2014 15:30		
Davila, Israel	05/26/2014 08:30	05/26/2014 15:30		

**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	May 26,2014 08:30	Arrive On Location	---	--	--	--	--	0.00
2	May 26,2014 08:45	Tailgate Meeting	---	--	--	--	--	0.00
3	May 26,2014 10:00	Rig In	---	--	--	--	--	0.00
4	May 26,2014 11:10	Safety Meeting	---	--	--	--	--	0.00
5	May 26,2014 11:30	Sign-off on Safety	---	--	--	--	--	0.00
6	May 26,2014 11:33	Pump	---	--	--	--	--	0.00
		Remarks: filled lines for pressure test						0.00
7	May 26,2014 11:35	Pressure Test	---	--	3,500.0	--	--	0.00
8	May 26,2014 11:40	Pump	Water	2.00	50.0	--	24.00	0.00
9	May 26,2014 12:00	Mix Cement	0:1:0 Type III	4.00	100.0	--	185.00	0.00
10	May 26,2014 13:00	Drop Plug	---	--	--	--	--	0.00
11	May 26,2014 13:05	Pump Displacement	Base Oil	3.00	100.0	--	34.30	0.00
		Remarks: oil based drilling mud						
12	May 26,2014 13:15	Stop	---	--	--	--	--	0.00
		Remarks: vlute blew in half						
13	May 26,2014 13:20	Wait On Instructions	Base Oil	3.00	300.0	--	81.70	0.00
		Remarks: Rig took over displacement and bumped plug						
14	May 26,2014 13:39	Bump Plug	---	--	700.0	--	--	0.00
		Remarks: rigged pumped displacement with oil base mud						
15	May 26,2014 14:10	Wash	---	--	--	--	--	0.00
16	May 26,2014 14:35	Rig Out	---	--	--	--	--	0.00
17	May 26,2014 15:20	Job Complete	---	--	--	--	--	0.00
18	May 26,2014 15:15	Pre-Departure Meeting	---	--	--	--	--	0.00
19	May 26,2014 15:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 46.5

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

**Comments To Service Report**

Job was succesful. But 25 bbls into displacement the drivers side mission vlute split in two. We then rigged in the rig to our cement head and they completed displacement and bumped the plug. Company rep was pleased. Bulk delivery could have been little better.

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