



# Pumping Service Report

9198044

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2209A	Rig Frontier 26	Job Date October 11, 2014	Call Sheet 1048508
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	

## Well Profile

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	--	--	--	--

## Casing

<u>Size</u> (in)	<u>Weight</u> (lb/ft)	<u>Grade</u>	<u>Collapse Pressure</u> (psi)	<u>Internal Yield Pressure</u> (psi)	<u>Capacity</u> (bbl)	<u>I.D.</u> (in)	<u>O.D.</u> (in)	<u>Depth From</u> (ft)	<u>Depth To</u> (ft)
9.625	36.000	J-55	2,020.0	3,520.0	123.31	8.921	10.625	0.0	1,595.0

## Products

### Stage 1

From Depth (ft): 0  
To Depth (ft): 1615

Acids/Blends/Fluids :

Tail: 680 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 178 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 77  
+ 1 % of CaCl<sub>2</sub> (Preblend),  
+ 0.25 lb/sack of Polyflake (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	--	--	--	--	Oct 09, 2014 18:51
Water Based Mud	--	--	--	--	Oct 09, 2014 18:51

## Attachment & Tools

### Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
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>
449089	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	10/11/2014 09:15	10/11/2014 13:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	10/11/2014 09:15	10/11/2014 13:30
201273	PICKUP	3/4 Ton				10/11/2014 09:15	10/11/2014 13:30

**Crew and Bonuses**

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Contreras, Bennie	10/11/2014 09:15	10/11/2014 13:30		
Bark, Eric	10/11/2014 09:15	10/11/2014 13:30		
Doran, Benjamin	10/11/2014 09:15	10/11/2014 13:30		
Pigg, Martin	10/11/2014 09:15	10/11/2014 13:30		
Paiu, Vladislav	10/11/2014 09:15	10/11/2014 13:30		

**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	Oct 11, 2014 09:15	Arrive On Location	---	--	--	--	--	0.00
		Remarks: Arrived.						
2	Oct 11, 2014 09:20	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Talked about spotting pump and rigging in.						
3	Oct 11, 2014 09:30	Rig In	---	--	--	--	--	0.00
		Remarks: Rigged in hoses and iron.						
4	Oct 11, 2014 10:10	STEACS Briefing	---	--	--	--	--	0.00
		Remarks: Muster, 911 Caller, Amb. and driver, Nearest med., Location safety equipt., Job scope.						
5	Oct 11, 2014 10:40	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: Sign all JSAs.						
6	Oct 11, 2014 10:49	Pressure Test	Water	--	3,000.0	--	--	0.00
		Remarks: Pressure test to 3000 psi.						
7	Oct 11, 2014 10:50	Pump	Water	5.00	50.0	--	20.00	20.00
		Remarks: Pump 20 BBLs of red dye.						
8	Oct 11, 2014 10:54	Mix Cement	0:1:0 Type III	6.80	350.0	--	178.00	198.00
		Remarks: Mix and pump 178 BBLs of cement @ 14.2 lb/gal..						
9	Oct 11, 2014 11:22	Stop	---	--	--	--	--	198.00
		Remarks: Stop to drop plug.						
10	Oct 11, 2014 11:22	Drop Plug	---	--	--	--	--	198.00
		Remarks: Drop plug.						
11	Oct 11, 2014 11:23	Displace Fluid	Water	6.30	700.0	--	123.00	321.00
		Remarks: Displace 123 BBLs of water.						
12	Oct 11, 2014 11:48	Bump Plug	Water	--	1,400.0	--	123.00	321.00
		Remarks: Bumped plug at 123 BBLs went 500 psi over on pressure to 1400						
13	Oct 11, 2014 11:53	Stop	---	--	--	--	--	321.00
		Remarks: Stopped and rigged off well.						
14	Oct 11, 2014 11:55	Wash	Water	2.00	170.0	--	20.00	341.00
		Remarks: Wash mix system and runbacks on triplexes.						
15	Oct 11, 2014 12:30	Rig Out	---	--	--	--	--	341.00
		Remarks: Rig out iron and hoses.						
16	Oct 11, 2014 13:10	Job Complete	---	--	--	--	--	341.00
		Remarks: Job complete.						
17	Oct 11, 2014 13:20	Pre-Departure Meeting	---	--	--	--	--	341.00
		Remarks: Journey management.						
18	Oct 11, 2014 13:30	Leave Location	---	--	--	--	--	341.00
		Remarks: Leave.						





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**Treatment Reports & Remarks**

Did Float Hold: Yes  
Fluid Returns : Yes  
Type : Cement  
Volume (bbl) : 57  
Temperature (°F) : 83  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design? : Yes

**Material Transfer Sheet Number**

Material Transfer Sheet Number

9660

9655



Client	Whiting Petroleum Corp.	Client Rep	Mr. Kenny Wilkerson	Supervisor	Bennie Contreras
Ticket No.	9198044	Well Name	Razor 27J-2209A	Unit No.	445052
Location	Sec.27:T10N:R58W	Job Type	Surface Casing	Service District	Fort Lupton
Comments	Lead 680 sacks 0-1-0 Type III @ 14.2 lb/gal..				
				Job Date	10/11/2014

