



**Pumping  
Service Report**

**9198880**

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3411A	Rig Frontier 26	Job Date October 28, 2014	Call Sheet 1049483
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Liner 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	Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
	6.000	15.000	6,069.000	13,185.000	--	--

Casing	Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	4.500	11.600	---	--	--	--	--	--	5,077.0	13,180.0

Drill Pipe	Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	4.000	0.000	---	--	--	--	--	0.000	799.000
	4.000	29.000	---	--	--	--	--	799.000	5,077.000

**Products**

**Stage 1**

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids:

Tail: 545 Sacks of 1:1:0 Poz G, Density = 13.7 lb/gal, Volume Pumped = 144 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75  
+ 8 % of Silifume (Preblend),  
+ 2 % of Gel (Preblend),  
+ 0.1 % of CFR-5 (Preblend),  
+ 0.7 % of CFL-4 (Preblend),  
+ 1 % of FWCA-H (Preblend),  
+ 0.45 % of LTR (Preblend),  
+ 0.2 % of AS-3 (Preblend),  
+ 0.25 lb/sack of Polyflake (Preblend)

**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 09, 2014 18:51
Water Based Mud	--	--	--	--	Oct 09, 2014 18:51

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: October 28, 2014  
Service Report: 9198880  
Page 1 of 4 V4.0.0.0



**Pumping  
Service Report**

**9198880**

**Attachment & Tools**

**Down Hole Tools**

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	--	
Float Collar	--	

**Units & Personnel**

<u>Units</u>						<u>Time On Location</u>	<u>Time Off Location</u>
<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>		
449086	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	10/28/2014 03:00	10/28/2014 13:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	10/28/2014 03:00	10/28/2014 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>
Klosterman, Austin	10/28/2014 03:00	10/28/2014 13:30		
Lindsay, Kevin	10/28/2014 03:00	10/28/2014 13:30		
Cheal, Samuel	10/28/2014 03:00	10/28/2014 13:30		
Houghton, Guy	10/28/2014 03:00	10/28/2014 13:30		

**Treatment Reports & Remarks**





# Pumping Service Report

9198880

## 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 28, 2014 03:00	Arrive On Location	---	0.00	0.0	0.0	0.00	0.00
2	Oct 28, 2014 03:10	Tailgate Meeting	---	0.00	0.0	0.0	0.00	0.00
3	Oct 28, 2014 03:20	Rig In	---	0.00	0.0	0.0	0.00	0.00
4	Oct 28, 2014 04:20	Wait On Instructions	---	0.00	0.0	0.0	0.00	0.00
Remarks: Rig was running drill pipe in the hole.								
5	Oct 28, 2014 08:00	STEACS Briefing	---	0.00	0.0	0.0	0.00	0.00
6	Oct 28, 2014 08:30	Sign-off on Safety	---	0.00	0.0	0.0	0.00	0.00
7	Oct 28, 2014 09:08	Establish Circulation	Water	1.50	400.0	0.0	2.00	2.00
Remarks: Filling lines.								
8	Oct 28, 2014 09:12	Pressure Test Lines	Water	0.00	5,600.0	0.0	0.00	2.00
9	Oct 28, 2014 09:15	Pump Preflush	Water	5.00	1,500.0	0.0	30.00	32.00
Remarks: Vissweep.								
10	Oct 28, 2014 09:22	Pump	1:1:0 Poz G	5.00	1,500.0	0.0	144.00	176.00
Remarks: Mix up and pump tail 545 sacks @13.7#, Yield 1.48, WR 6.74								
11	Oct 28, 2014 10:21	Drop Plug On The Fly	Water	0.00	0.0	0.0	0.00	176.00
12	Oct 28, 2014 10:21	Displace Fluid	Water	5.00	200.0	0.0	20.00	196.00
13	Oct 28, 2014 10:26	Decrease Pump Rate	Water	2.00	1,800.0	0.0	10.00	206.00
Remarks: Latched dart.								
14	Oct 28, 2014 10:32	Increase Pump Rate	Water	5.20	1,700.0	0.0	115.00	321.00
15	Oct 28, 2014 10:54	Decrease Pump Rate	Water	2.00	1,000.0	0.0	10.00	331.00
16	Oct 28, 2014 10:59	Pumping Pressure Before Bump	Water	0.00	1,000.0	0.0	0.00	331.00
17	Oct 28, 2014 10:59	Bump Plug	Water	0.00	1,500.0	0.0	157.00	331.00
18	Oct 28, 2014 11:06	Check Float	---	0.00	0.0	0.0	0.00	331.00
Remarks: 1.5 bbls back.								
19	Oct 28, 2014 11:17	Pressure Test	Water	0.00	1,850.0	0.0	0.00	331.00
Remarks: Backside test for 5 minutes.								
20	Oct 28, 2014 11:20	Pump	Water	4.00	1,000.0	0.0	150.00	331.00
Remarks: Rolling the hole clean.								
21	Oct 28, 2014 12:20	Rig Out	---	0.00	0.0	0.0	0.00	0.00
22	Oct 28, 2014 13:00	Job Complete	---	0.00	0.0	0.0	0.00	0.00
23	Oct 28, 2014 13:15	Pre-Departure Meeting	---	0.00	0.0	0.0	0.00	0.00
24	Oct 28, 2014 13:30	Leave Location	---	0.00	0.0	0.0	0.00	0.00

Did Float Hold: Yes

Fluid Returns: Yes

Type: Cement

Volume (bbl): 20

Temperature (°F): 75

FDAS Functioning Correctly: Yes

Was the Program Followed As Per Design?: Yes

5,077.5  
13,180.



**Pumping  
Service Report**

**9198880**

**Treatment Reports & Remarks**

**Material Transfer Sheet Number**

Material Transfer Sheet Number

54718

54716

54717

**Comments To Service Report**

Job went according to prog and customer's request. Job went good.



Client	Whiting	Client Rep	Kenny Wilkerson	Supervisor	A. Klosterman
Ticket No.	9198880	Well Name	Razor 27-J 3411A	Unit No.	745070
Location	Swc27:T10N:R58W	Job Type	Liner Casing	Service District	505
Comments	Mix up tail 545 sacks @13.7#				
				Job Date	10/28/2014

