



**Pumping  
Service Report**

**9188731**

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3410B	Rig Frontier 26	Job Date August 17, 2014	Call Sheet 1045691
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	

**Well Profile**

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	100.00 @ --
Bottom Hole Circulating Temperature (°F):	80.00 @ --
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	1,615.000	--	--

**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	124.05	8.921	10.625	0.0	1,604.6

**Products**

**Stage 1**

From Depth (ft):	0
To Depth (ft):	1604.6

Acids/Blends/Fluids :

Tail: 680 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 180 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60  
+ 1 % of CaCl<sub>2</sub> (Preblend),  
+ 0.25 % of Polyflake (Preblend)

**Fluid & Cement Data**

Expected Cement Top: Surface

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jul 26, 2014 15:47
Water Based Mud	--	8.500	--	--	Aug 17, 2014 13:51

**Attachment & Tools**

**Down Hole Tools**

Tool Type	Depth (ft)	Supplier
Float Collar	1,558.200	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>
449093	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	08/17/2014 08:00	08/17/2014 15:00
445052	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	08/17/2014 08:00	08/17/2014 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>
Price, Ryan	08/17/2014 08:00	08/17/2014 15:00		
Davila, Israel	08/17/2014 08:00	08/17/2014 15:00		
Morris, Theodore	08/17/2014 08:00	08/17/2014 15:00		
Wright, Isaac	08/17/2014 08:00	08/17/2014 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> (bbl/min)	<u>Tubular Pressure</u> (psi)	<u>Annular Pressure</u> (psi)	<u>Stage Volume</u> (bbl)	<u>Total Volume</u> (bbl)
1	Aug 17, 2014 08:00	Arrive On Location	--	--	--	--	--	0.00
2	Aug 17, 2014 08:05	Tailgate Meeting	--	--	--	--	--	0.00
3	Aug 17, 2014 08:10	N/A	--	--	--	--	--	0.00
		Remarks: rig still running casing, rigged in bulk, water, and ground iron then waited						
4	Aug 17, 2014 08:50	Wait On Instructions	--	--	--	--	--	0.00
		Remarks: rig still running casing						
5	Aug 17, 2014 10:40	Rig In	--	--	--	--	--	0.00
6	Aug 17, 2014 11:30	Safety Meeting	--	--	--	--	--	0.00
7	Aug 17, 2014 11:42	Sign-off on Safety	--	--	--	--	--	0.00
8	Aug 17, 2014 11:46	Pump	Water	1.00	25.0	--	2.00	0.00
		Remarks: filled lines for pressure test						
9	Aug 17, 2014 11:47	Pressure Test	--	--	3,000.0	--	--	0.00
10	Aug 17, 2014 11:49	Pump Spacer	Water	5.00	150.0	--	25.00	0.00
11	Aug 17, 2014 12:00	Mix Cement	0:1:0 Type III	5.00	300.0	--	180.00	0.00
12	Aug 17, 2014 12:38	Drop Plug	--	--	--	--	--	0.00
13	Aug 17, 2014 12:42	Pump Displacement	Water Based Mud	5.00	500.0	--	118.00	0.00
		Remarks: last 20 of displacement went to water						
14	Aug 17, 2014 13:10	Bump Plug	--	2.00	1,100.0	--	118.00	0.00
15	Aug 17, 2014 13:12	Check Float	--	--	--	--	--	0.00
		Remarks: floats held and got back .5 bbl						
16	Aug 17, 2014 13:40	Rig Out	--	--	--	--	--	0.00
17	Aug 17, 2014 14:20	Wash	Water	--	--	--	20.00	0.00
18	Aug 17, 2014 14:45	Job Complete	--	--	--	--	--	0.00
19	Aug 17, 2014 14:50	Pre-Departure Meeting	--	--	--	--	--	0.00
20	Aug 17, 2014 15:00	Leave Location	--	--	--	--	--	0.00



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**Treatment Reports & Remarks**

Did Float Hold: Yes  
Fluid Returns : Yes  
Type : Cement  
Volume (bbl) : 38  
Temperature (°F) : 70  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design?: Yes

**Material Transfer Sheet Number**

Material Transfer Sheet Number

46835

46836

**Comments To Service Report**

Job went great. Rig still running casing when we arrived. So we rigged in lay down bin and water and ground iron, then waited. Rig in was fast, great bulk delivery. Crew did a great job all around and company rep was happy with job..



Client	Whiting Petroleum Corp	Client Rep	Kenny Wilkerson	Supervisor	Ryan Price
Ticket No.	9188731	Well Name	Razor 27J-3410B	Unit No.	445032
Location	Sec 27;T10N;R58W	Job Type	Surface Casing	Service District	Fort Lupton
Comments	Job Date 08/17/2014				







Total People on Location: \_\_\_\_\_ Location: Sec 27, T10N, R58W

Don't let loose animals into tent camp. Camping up for 4th of April. Set up  
the 1st 12th of April. Under tents - 1st set up. 2nd set up.

How do we signal "STOP WORK"? u. v. stop - overboard stop head.

Full Line: 101-401 210-2071 40-175 200 Jerry @ 14.2 app - stop Drop Plug - Displace 175-1 200 @ 100 go to 140-2 app 500 over - 4th line class. Elastic Wear: all PPE on location - Hard hat, gloves - steel toe boots - eye protection - PPE - Work @ Safe place - keep out of one another's way. Everybody has right and obligation to shut job down if something is too hot to touch that down.

Sequence of Basic Job Steps	Potential Hazards	Recommended Controls
Get boxes	Knives - by paths - Tools	Use proper and correct way
Get in	Biological Agents	Wear PPE
Run up	Slips - trips - Falls - pinch points	Watch your path - Handle boxes carefully
Run up	Heavy lifts	Proper technique
Run up	High pressure - Noise - Contact	Wear PPE
Run up	Hot - cold	Wear PPE
Run up	Slips - trips - Falls - pinch points	Watch your path - Handle boxes carefully
Run up	Heavy lifts	Proper technique
Leave location	Long drive home - Fatigue - Stress	Use proper and correct way

Print Name Tyson Lawton Signature [Signature]

Print Name \_\_\_\_\_ Signature \_\_\_\_\_