



# Pumping Service Report

9201215

AP : 05-123-39305-00

Client Name Whiting Petroleum Corp.	Well Name Razor 330-2812	Rig Frontier 9	Job Date December 06, 2014	Call Sheet 1051613
Client Representative Kyle Renton	Surface Well Location SW SE Sec 33:T10N:R58W	Down Hole Well Location	Job Type Intermediate Casing	

## 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

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	25.000	1,200.000	6,013.000	Correction: 6075.0	---

## 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)
7.000	29.000	P-110	8,510.0	9,520.0	223.37	6.184	7.656	0.0	6,013.0
9.625	26.000	J-55	---	---	---	---	---	---	Correction: 6061.0

## Products

### Stage 1

From Depth (ft): 0

To Depth (ft): 3812

#### Acids/Blends/Fluids :

Lead 1: 455 Sacks of 1:2:6 Poz G Gel, Density = 12.5 lb/gal, Volume Pumped = 153 (bbl)  
 Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 77  
 + 0.2 % of CFR (Preblend),  
 + 0.5 % of CFL-4 (Preblend),  
 + 0.15 % of LTR (Preblend),  
 + 0.25 lb/sack of Polyflake (Preblend)

### Stage 2

From Depth (ft): 3812

To Depth (ft): 6013 Correction: 6061'

#### Acids/Blends/Fluids :

Tail: 210 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 57 (bbl)  
 Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 77  
 + 8 % of SilFume (Preblend),  
 + 2 % of Gel (Preblend),  
 + 0.1 % of CFR-5 (Preblend),  
 + 0.7 % of CFL-3 (Preblend),  
 + 0.3 % of LTR (Preblend),  
 + 0.25 lb/sack 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	---	8.400	---	---	Jul 14, 2014 20:27
Water Based Mud	---	---	---	---	Oct 09, 2014 19:06



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**Attachment & Tools**

**Down Hole Tools**

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

**Tubular Plugs**

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	7.000	Sanjel

**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>
201191	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	12/06/2014 16:00	12/07/2014 03:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	12/06/2014 16:00	12/07/2014 03:30
200868	PICKUP	3/4 Ton				12/06/2014 16:00	12/07/2014 03:30

**Crew and Bonuses**

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Prigmore, Dominic	12/06/2014 16:00	12/07/2014 03:30		
Young, Craig	12/06/2014 16:00	12/07/2014 03:30		
Meisner, Jeremy	12/06/2014 16:00	12/07/2014 03:30		
Peterson, Ryan	12/06/2014 16:00	12/07/2014 03:30		
Johnson, Jakob	12/06/2014 16:00	12/07/2014 03:30		

**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	Dec 06,2014 16:00	Arrive On Location	---	---	---	---	---	0.00
2	Dec 06,2014 16:15	Tailgate Meeting	---	---	---	---	---	0.00
3	Dec 06,2014 16:30	STEACS Briefing	---	---	---	---	---	0.00
4	Dec 06,2014 16:45	Rig In	---	---	---	---	---	0.00
5	Dec 06,2014 22:35	Safety Meeting	---	---	---	---	---	0.00
6	Dec 06,2014 22:45	Sign-off on Safety	---	---	---	---	---	0.00
7	Dec 06,2014 23:28	Start - Fluid	Water	---	---	---	---	0.00
		Remarks: filled our lines.						
8	Dec 06,2014 23:30	Pressure Test	---	---	3,600.0	---	---	0.00
		Remarks: pressure test						
9	Dec 06,2014 23:35	Pump	Water	3.00	200.0	---	10.00	0.00
		Remarks: established circulation. used red dye for indicator.						
10	Dec 06,2014 23:38	Pump Preflush	---	3.00	200.0	---	20.00	0.00
		Remarks: pump pre-flush barrite 2300lbs						
11	Dec 06,2014 23:45	Mix Cement	1:2:6 Poz G Gel	6.00	600.0	---	153.00	153.00
		Remarks: 12.5 density						
12	Dec 06,2014 00:14	Mix Cement	1-1-0 G	6.00	300.0	---	57.00	57.00
		Remarks: 13.5 density						
13	Dec 06,2014 00:25	Stop	---	---	---	---	---	0.00
14	Dec 06,2014 00:33	Drop Plug	Water Based Mud	---	---	---	---	0.00
15	Dec 06,2014 00:34	Displace Fluid	Water Based Mud	7.20	1,600.0	---	223.00	0.00
		Remarks: displaced fluid						
16	Dec 06,2014 01:11	Bump Plug	Water Based Mud	2.00	1,800.0	---	223.00	0.00
		Remarks: bumped plug 500psi over final treating pressure.						
17	Dec 06,2014 01:12	Check Float	Water Based Mud	---	1,800.0	---	---	0.00
		Remarks: check float held pressure for 2 min.						
18	Dec 06,2014 01:15	Hold Pressure	Water Based Mud	1.00	1,660.0	---	2.00	0.00
		Remarks: casing test for 15 min. pressure held fine. at 01:30 pressure was 1800						
19	Dec 06,2014 01:35	Stop	---	---	---	---	---	0.00
		Remarks: bleed pressure off.						
20	Dec 06,2014 01:45	Wash	Water	1.00	22.0	---	5.00	0.00
		Remarks: washed pump						
21	Dec 06,2014 02:20	Rig Out	---	---	---	---	---	0.00
22	Dec 06,2014 03:20	Pre-Departure Meeting	---	---	---	---	---	0.00
23	Dec 06,2014 03:30	Job Complete	---	---	---	---	---	0.00
24	Dec 06,2014 03:30	Leave Location	---	---	---	---	---	0.00



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**Treatment Reports & Remarks**

Did Float Hold: Yes  
Fluid Returns : Yes  
Type : Cement  
Volume (bbl) : 48  
Temperature (°F) : 88  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design? : Yes

**Material Transfer Sheet Number**

Material Transfer Sheet Number

54237

54235

**Comments To Service Report**

Job went according to prog. and customers request. Job went well.



Client	Whiting Petroleum Corp.	Client Rep	Kyle Renton	Supervisor	Dominic Prigmore
Ticket No.	9201215	Well Name	Razor 330-2812	Unit No.	745070
Location	SW SE Sec 33:T10N:R58W	Job Type	Intermediate Casing	Service District	Fort Lupton
Comments	455 sacks @ 153 bbls. of slurry @ 12.5 density (Lead) 210 sacks @ 57 bbls. of slurry @ 13.5 density (Tail)			Job Date	12/06/2014

