



**Pumping
Service Report**

9198938

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3411A	Rig Frontier 26	Job Date October 22, 2014	Call Sheet 1049222
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Intermediate 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>
8.750	35.000	--	--	--	--

Casing

<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
7.000	26.000	P-110	6,210.0	9,520.0	232.21	6.276	7.656	0.0	6,069.0

Products

Stage 1

From Depth (ft):	0
To Depth (ft):	6023

Acids/Blends/Fluids :

Lead 1: 455 Sacks of 1:2:6 G, Density = 12.5 lb/gal, Volume Pumped = 153 (bbl)
Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 71

- + 0.5 % of CFL-4 (Preblend),
- + 0.2 % of CFR (Preblend),
- + 6 % of Gel (Preblend),
- + 0.15 % of LTR (Preblend),
- + 0.25 lb/sack of Polyflake (Preblend)

Tail: 210 Sacks of 1:1:0 Poz G, Density = 13.5 lb/gal, Volume Pumped = 57 (bbl)
Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 71

- + 0.7 % of CFL-3 (Preblend),
- + 8 % of Silifume (Preblend),
- + 2 % of Gel (Preblend),
- + 0.3 % of LTR (Preblend),
- + 0.25 lb/sack of Polyflake (Preblend),
- + 0.1 % of CFR-5 (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



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Attachment & Tools

Down Hole Tools

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

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	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>
449086	TRAILER	Utility Trailer	200868	PICKUP	3/4 Ton	10/22/2014 14:30	10/22/2014 22:30
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	10/22/2014 14:30	10/22/2014 22:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	10/22/2014 14:30	10/22/2014 22:30

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	10/22/2014 14:30	10/22/2014 22:30		
Martinez, Fernando	10/22/2014 14:30	10/22/2014 22:30		
Bark, Eric	10/22/2014 14:30	10/22/2014 22:30		
Hansen, Kevin	10/22/2014 14:30	10/22/2014 22:30		

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 22, 2014 14:30	Arrive On Location	---	--	--	--	--	0.00
2	Oct 22, 2014 14:35	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 22, 2014 15:35	Rig In	---	--	--	--	--	0.00
4	Oct 22, 2014 18:25	Safety Meeting	---	--	--	--	--	0.00
5	Oct 22, 2014 18:30	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 22, 2014 18:31	STEACS Briefing	---	--	--	--	--	0.00
7	Oct 22, 2014 18:50	Start - Fluid	Water	2.00	370.0	--	2.00	0.00
		Remarks: filled lines.						
8	Oct 22, 2014 18:53	Establish Circulation	Water	2.00	350.0	--	10.00	0.00
		Remarks: 10bbls of fresh with dye						
9	Oct 22, 2014 18:59	Pressure Test	Water	--	3,500.0	--	--	0.00
10	Oct 22, 2014 19:00	Pump Preflush	Water	2.00	185.0	--	20.00	0.00
		Remarks: WG-1L/ 2300lbs. Barite						
11	Oct 22, 2014 19:10	Pump	1:2:6 G	4.00	185.0	--	153.00	0.00
		Remarks: @ 12.5 density						
12	Oct 22, 2014 19:39	Pump	1:1:0 Poz G	5.80	300.0	--	57.00	0.00
		Remarks: @ 13.5 density						
13	Oct 22, 2014 19:52	Stop	---	--	--	--	--	0.00
		Remarks: dropped plug						
14	Oct 22, 2014 20:30	Displace Fluid	Water	5.80	122.0	--	220.00	0.00
		Remarks: Displaced with water due to rig unable to pump mud.						
15	Oct 22, 2014 21:22	Bump Plug	Water	1.80	2,000.0	--	220.00	0.00
		Remarks: bumped plug						
16	Oct 22, 2014 21:26	Hold Pressure	Water	1.00	1,800.0	--	2.00	0.00
		Remarks: Held pressure for 30 min. on casing.						
17	Oct 22, 2014 22:00	Stop	---	--	--	--	--	0.00
18	Oct 22, 2014 22:15	Wash	Water	1.00	22.0	--	15.00	0.00
19	Oct 22, 2014 22:30	Rig Out	---	--	--	--	--	0.00
20	Oct 22, 2014 22:35	Job Complete	---	--	--	--	--	0.00
21	Oct 22, 2014 23:30	Pre-Departure Meeting	---	--	--	--	--	0.00
22	Oct 22, 2014 23:59	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 45

Temperature (°F) : 71

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

54655

54653

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: October 22, 2014

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V4.0.0.0



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Comments To Service Report

Job went according to prog and customers request. Job went well. All Sanjel equipment operated fine.



Client	Whiting Petroleum Corp	Client Rep	Kenny Wilkerson	Supervisor	Dominic Prigmore
Ticket No.	9198937	Well Name	Razor 27J-3411A	Unit No.	745070
Location	Sec 27:T10N:R58W	Job Type	Intermediate Casing	Service District	Ft Lupton
Comments	Job Date 10/22/2014				

