



**Pumping
Service Report**

9193321

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3409A	Rig Frontier 26	Job Date September 21, 2014	Call Sheet 1047445
Client Representative Mr. 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	1,589.500	--	--

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	122.88	8.921	10.625	0.0	1,589.5

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 1541.9

Acids/Blends/Fluids:

Tail: 710 Sacks of 0.1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 210 (bbl)

Water Temperature(°F) = 66, Bulk Temperature(°F) = 66, Slurry Temperature(°F) = 78

+ 1 % of CaCl₂ (Preblend),

+ 0.25 % 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	--	--	--	--	Jul 26, 2014 15:47

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Client



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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>
201017	PICKUP	1 Ton	449093	TRAILER	Utility Trailer	09/21/2014 07:00	09/21/2014 15:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	09/21/2014 07:00	09/21/2014 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>
Prigmore, Dominic	09/21/2014 07:00	09/21/2014 15:00		
Martinez, Fernando	09/21/2014 07:00	09/21/2014 15:00		
Cheal, Samuel	09/21/2014 07:00	09/21/2014 15:00		
Paiv, Vladislav	09/21/2014 07:00	09/21/2014 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	Sep 21, 2014 07:00	Arrive On Location	---	--	--	--	--	0.00
2	Sep 21, 2014 07:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Sep 21, 2014 09:05	Rig In	---	--	--	--	--	0.00
4	Sep 21, 2014 11:10	Sign-off on Safety	---	--	--	--	--	0.00
5	Sep 21, 2014 11:15	Safety Meeting	---	--	--	--	--	0.00
6	Sep 21, 2014 11:33	Start - Fluid	Water	1.70	50.0	--	2.00	0.00
		Remarks: filled lines						
7	Sep 21, 2014 11:37	Pressure Test	Water	--	3,000.0	--	--	0.00
		Remarks: pressure test						
8	Sep 21, 2014 11:40	Establish Circulation	Water	3.50	70.0	--	20.00	0.00
		Remarks: circulation						
9	Sep 21, 2014 11:43	Pump	0:1:0 Type III	4.70	200.0	--	210.00	0.00
		Remarks: pumped slurry						
10	Sep 21, 2014 12:31	Drop Plug	Water	--	--	--	--	0.00
		Remarks: dropped plug						
11	Sep 21, 2014 12:34	Displace Fluid	Water	3.00	200.0	--	118.00	0.00
		Remarks: bumped plug @ 1311 @ 1400psi						
12	Sep 21, 2014 13:15	Check Float	Water	--	1,400.0	--	--	0.00
		Remarks: Held pressure for 3 min.						
13	Sep 21, 2014 13:20	Stop	---	--	--	--	--	0.00
14	Sep 21, 2014 14:00	Wash	Water	1.00	22.0	--	18.00	0.00
		Remarks: washed pump						
15	Sep 21, 2014 14:30	Rig Out	---	--	--	--	--	0.00
16	Sep 21, 2014 14:45	Pre-Departure Meeting	---	--	--	--	--	0.00
17	Sep 21, 2014 15:00	Job Complete	---	--	--	--	--	0.00
18	Sep 21, 2014 15:05	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): 86
FDAS Functioning Correctly: Yes
Was the Program Followed As Per Design?: Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

9314

9316

Comments To Service Report

Job went according to prog and customers request. Job went good. All Sanjel equipment operated with no issues.



Client	Whiting Petroleum Corp.	Client Rep	Mr. Kenny Wilkerson	Supervisor	Dominic Prigmore
Ticket No.	9193321	Well Name	Razor 27J-3409A	Unit No.	445052
Location	Sec 27-T10N-R58W	Job Type	Surface Casing	Service District	Fort Lupton
Comments	0:1:0 Type III Density 14.2			Job Date	09/21/2014

