



**Pumping
Service Report**

9191924

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 26I - 3514B	Rig Frontier Drilling 26	Job Date June 30,2014	Call Sheet 1043547
Client Representative Kenny Wilkerson	Surface Well Location Sec 26: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):	200.00 @ --
Bottom Hole Circulating Temperature (°F):	200.00 @ --
Bottom Hole Logged Temperature (°F):	--- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	35.000	0.000	6,002.000	--	--

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)
7.000	29.000	L-80	7,030.0	8,160.0	222.89	6.184	7.656	0.0	6,000.0

Products

Stage 1

From Depth (ft): 5948
To Depth (ft): 0

Acids/Blends/Fluids :

Lead 1: 455 Sacks of 1-2-6, Density = 12.5 lb/gal, Volume Pumped = 153.2 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 0.2 % of CFR,
+ 0.5 % of CFL-4,
+ 0.15 % of LTR,
+ 0.25 lb/sack of Polyflake

Tail: 210 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 56.8 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 8 % of SilFume,
+ 2 % of Gel,
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-3,
+ 0.3 % of LTR,
+ 0.25 lb/sack of Polyflake

Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	May 20, 2014 04:37

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	7.000	Sanjel

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Service Ticket

9191924

Field Estimate

This Space Reserved for Client Coding Stamp	* Not Subject to Discount	Field Estimate	Before Discount: \$67,083.50
			Fuel Surcharge:
			After Discount: \$30,566.90
	FOR OFFICE USE ONLY		
	<input type="checkbox"/> Cementing - Prim	<input checked="" type="checkbox"/> Cementing -Rem.	<input type="checkbox"/> Code 9000
	<input type="checkbox"/> Coiled Tubing	<input type="checkbox"/> Nitrogen	
<input type="checkbox"/> Acidization	<input type="checkbox"/> Fracturing		
<input type="checkbox"/> Industrial Services	<input type="checkbox"/> MPCT		
<input type="checkbox"/> Other			
Field	Sales 1	Sales 2	
Comments Filled lines with 2 BBLS, pressure Test 3000PSI, 10BBLS Fresh ahead, 20BBLS Visweep, Lead: 455 Sacks 1-2-6 Cement, 153.2 BBLS Slurry @ 12.5 Density, Tail: 221 Sacks 1-1-0 G, 56.8 BBLS Slurry @ 13.5 Density. Drop Plug. Displace 220.7 BBLS Mud. Bump Plug @ 1450psi. Hold Pressure for 15			This service ticket is not an invoice; pricing is subject to review and change without notice. This signature confirms that I have read and comply with the terms and conditions page of this service ticket. X

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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	Jun 30,2014 06:00	Arrive On Location	---	--	--	--	--	0.00
2	Jun 30,2014 06:15	Tailgate Meeting	---	--	--	--	--	0.00
3	Jun 30,2014 11:50	Rig In	---	--	--	--	--	0.00
4	Jun 30,2014 13:50	Safety Meeting	---	--	--	--	--	0.00
5	Jun 30,2014 14:00	Sign-off on Safety	---	--	--	--	--	0.00
6	Jun 30,2014 14:22	Start - Fluid	Water	2.00	500.0	--	2.00	2.00
Remarks: Filled lines.								
7	Jun 30,2014 14:31	Pressure Test Lines	---	--	3,000.0	--	--	2.00
Remarks: All lines held pressure.								
8	Jun 30,2014 14:32	Pump Preflush	Water	3.00	450.0	--	10.00	12.00
Remarks: Fresh water pre flush.								
9	Jun 30,2014 14:36	Pump Preflush	Water	3.00	500.0	--	20.00	32.00
Remarks: Visweep and Barite.								
10	Jun 30,2014 14:44	Mix Cement	1-2-6	6.00	400.0	--	153.20	185.20
Remarks: Lead.								
11	Jun 30,2014 15:45	Mix Cement	1-1-0 G	4.00	300.0	--	56.80	242.00
Remarks: Tail.								
12	Jun 30,2014 16:06	Drop Plug	---	--	--	--	--	242.00
13	Jun 30,2014 16:07	Displace Fluid	---	5.00	1,550.0	--	220.70	462.70
Remarks: Bumped plug @ 1450 psi.								
14	Jun 30,2014 16:56	Hold Pressure	---	--	--	--	--	462.70
Remarks: Bumped plug @ 150, held pressure for 15 minutes, 1400 psi when pressure released.								
15	Jun 30,2014 17:15	Stop	---	--	--	--	--	462.70
16	Jun 30,2014 17:30	Wash	Water	1.50	100.0	--	20.00	462.70
17	Jun 30,2014 18:15	Rig Out	---	--	--	--	--	462.70
18	Jun 30,2014 18:45	Pre-Departure Meeting	---	--	--	--	--	462.70
19	Jun 30,2014 18:50	Job Complete	---	--	--	--	--	462.70
20	Jun 30,2014 18:55	Leave Location	---	--	--	--	--	462.70

Did Float Hold: Yes
 Fluid Returns : Yes
 Type : Cement
 Volume (bbl) : 40
 Temperature (°F) : 60
 FDAS Functioning Correctly : Yes
 Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
 46636
 46637
 46573



Client	Whiting Petroleum Corp.	Client Rep	Mr. Kenny Wilkerson	Supervisor	Matthew Maguire
Ticket No.	9191924	Well Name	Razor Federal 261-3514B	Unit No.	445052
Location	Sec 26:T10N:R58W	Job Type	Intermediate Casing	Service District	505
Comments	Filled lines with 2 BBLS, pressure Test 3000PSI, 10BBLS Fresh ahead, 20BBLS Visweep, Lead: 455 Sacks 1-2-6 Cement, 153.2 BBLS Slurry @ 12.5 Density, Tail: 221 Sacks 1-1-0 G, 56.8 BBLS Slurry @ 13.5 Density, Drop Plug, Displace 220.7 BBLS Mud, Bump Plug, Hold Pressure for 15 min. Stop.				
				Job Date	06/30/2014

