



**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 CaCl<sub>2</sub> (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

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
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

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
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		
Paiu, Vladislav	09/21/2014 07:00	09/21/2014 15:00		

## Treatment Reports & Remarks

### 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	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

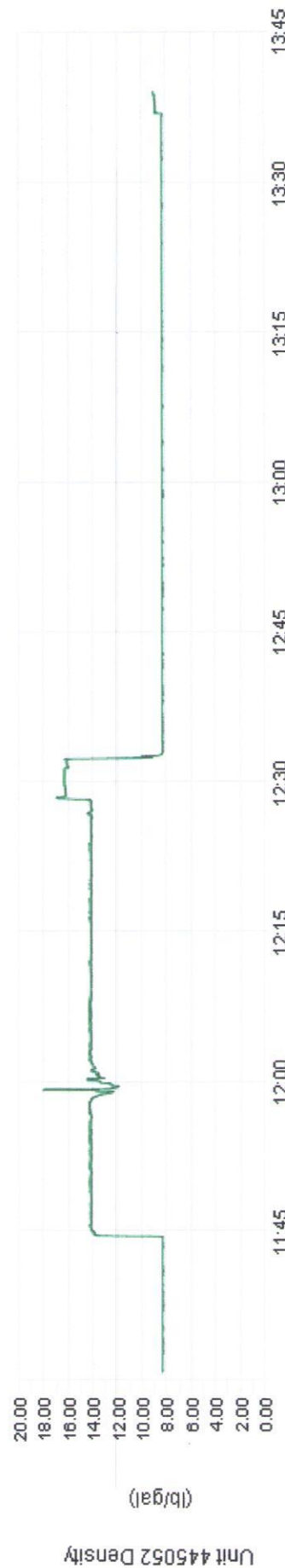
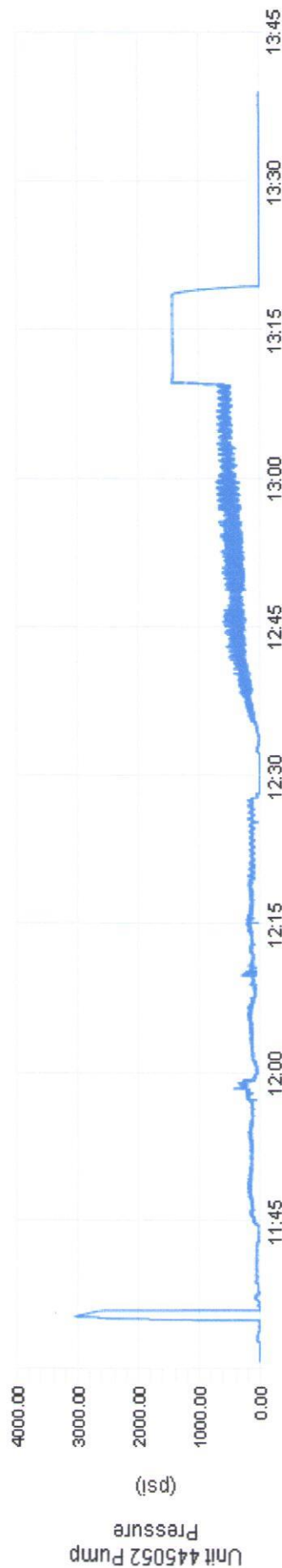
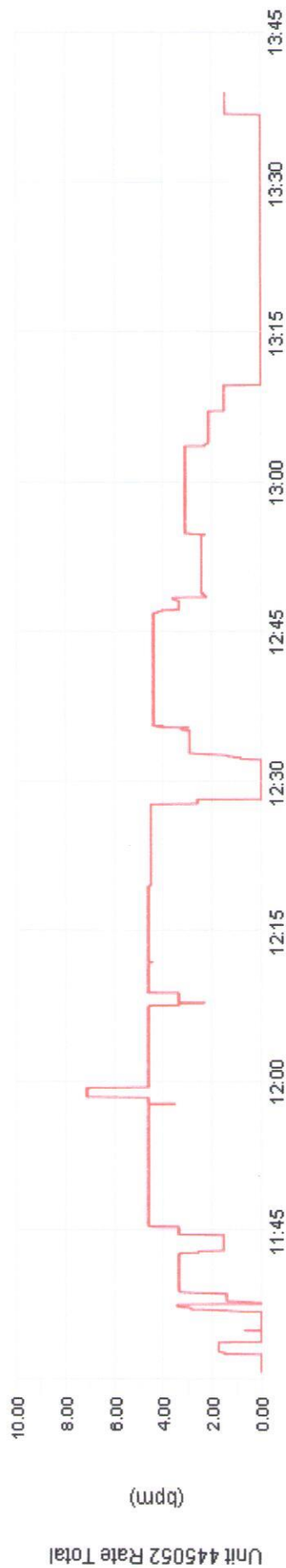
**Comments To Service Report**

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





# Service Ticket

9193321

## Field Estimate

Client Name <b>Whiting Petroleum Corp.</b>			Well Name <b>Razor 27J-3409A</b>		Surface Well Location <b>Sec 27:T10N:R58W</b>		Job Date <b>September 21, 2014</b>	
			Job Type <b>Surface Casing</b>		Down Hole Location		Service Point <b>Fort Lupton</b>	Call Sheet <b>1047445</b>
Address <b>1700 Broadway, Suite. 2300</b>			Client Representative <b>Mr. Kenny Wilkerson</b>		State <b>CO</b>	County <b>Weld</b>	Pricing Area <b>Area U</b>	
City <b>Denver</b>	State <b>CO</b>	Postal Code <b>80290</b>	Drilling Company <b>Frontier</b>		Rig No. <b>26</b>		AFE/PO #	

District	Service, Equipment & Material Type	Disc	13	Code	Quantity/Unit	Unit Price	Amount
59	Travel Charge	58	13	1380	1	\$7.50	\$750.00
59	Service Charge 0 to 2000 ft	58	13	1000	1	\$3,550.00	\$3,550.00
59	Twin Pumping	58	13	1150	1	\$710.00	\$710.00
59	Handling Service Charge	58	13	1480	731	\$3.30	\$2,412.30
59	Bulk Delivery / Return	58	13	1484	34	\$2.55	\$8,670.00
59	SAM Unit	58	13	1497	1	\$1,015.00	\$1,015.00
59	Type III	58	13	3007	710	\$29.00	\$20,590.00
59	Calcium Chloride	58	13	3100	667	\$1.80	\$1,200.60
59	Polyflake	58	13	3247	175	\$5.00	\$875.00
59	EnviroBag	58	13	1492	1	\$78.00	\$78.00
59	DF-2, Anti-foamer	58	13	3261	7	\$141.00	\$987.00
59	Environmental Surcharge	-	13	1493	1	\$50.00	\$50.00 *
59	Fuel Surcharge	-	13	2992	2	\$520.00	\$1,040.00 *
59	Bulk Storage Bin Rental	-	13	1488	1	\$1,200.00	\$1,200.00 *
59	Add. Loc. Time (Twin) - Operating	-	13	1395	4.5	\$525.00	\$2,362.50 *
59	Add. Loc. (Twin) - Non Operating	-	13	1396	4.5	\$340.00	\$1,530.00 *

* Not Subject to Discount  Field Estimate  FOR OFFICE USE ONLY <input checked="" type="checkbox"/> Cementing - Prim <input 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  This Space Reserved for Client Coding Stamp	Before Discount:	<b>\$47,020.40</b>
	Fuel Surcharge:	
	After Discount:	<b>\$23,334.42</b>

Comments Job went according to prog and customers request. Job went good. All Sanjel equipment operated with no issues.	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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Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: September 21, 2014

Service Ticket: 9193321

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## General Terms and Conditions

Under these terms and conditions ("T&C's") Sanjel (USA) Inc. ("Sanjel") agrees to provide, and you agree to purchase, the goods and services in the attached proposal or work order ("goods," "services" or "goods and services"). You understand and agree that the T&Cs govern and control the provision of all goods or services Sanjel provides to you, including any goods or services Sanjel provides or performs under written or oral requests for goods or services. You accept the T&Cs by informing Sanjel or allowing Sanjel to provide goods and services, whichever is first. You cannot change the T&Cs, and Sanjel rejects any proposals on your forms or otherwise. When used in the T&Cs, "we," "us," and "our" refer to both you and Sanjel, collectively.

1. **Entire Agreement.** If we have signed an agreement applicable to the goods and services, that agreement will apply and the T&Cs do not. If no signed agreement exists between us, the T&Cs are our entire agreement for the goods and services, and no prior discussion, agreement, conduct, or industry practice will affect them. The T&Cs may not be changed, superseded or replaced by any other agreement (including any terms in a purchase order, service order, invoice or other similar document) unless specifically agreed by each of us in writing.

2. **Acknowledgment.** You understand that interpretations, research, analysis, advice or interpretational data furnished by Sanjel ("Recommendations") are opinions based on inferences from measurements, empirical relationships and assumptions and industry practice and that Recommendations are not infallible, and the opinions of professional geologists, engineers, drilling consultants and analysts may differ. Sanjel does not warrant the accuracy, correctness, or completeness of the Recommendations, or that your or any third party's reliance on the Recommendations will accomplish any particular results. You assume full responsibility for the use of and decisions based on the Recommendations, and you hereby agree to release, defend, indemnify and hold Sanjel harmless from Claims arising from the use of the Recommendations.

3. **Payment.** You will pay Sanjel at the rates in the applicable proposal or work order (which are good for 90 days) in US dollars within 30 days of performance or a correct invoice, whichever is later. Sanjel may charge interest at 18% per year on all overdue amounts, and you will bear all costs of collection of overdue accounts, including legal fees.

4. **Services.** You acknowledge and agree that the services Sanjel may perform are of such a nature that results cannot be guaranteed, and Sanjel makes no representations, warranties or guarantees with respect to the results of the services. Sanjel's only warranty with regard to the services is that they will conform to the material aspects of the applicable scope of work.

5. **Goods.** Sanjel may provide goods to you under the T&Cs or in connection with the services. Sanjel warrants that goods will (a) substantially conform to the applicable scope of work (b) be free of defects and of good quality and workmanship, and (c) not be subject to any liens, claims or encumbrances. There are no warranties, express or implied, of merchantability, use, and fitness that extend beyond those expressly stated herein.

6. **Warranty Remedies.** Sanjel will re-perform any non-conforming services if Sanjel is notified before leaving the work site, and will repair or replace any non-conforming or defective goods you notify Sanjel of within 30 days after Sanjel provided them to you free of charge. If Sanjel is unable to repair the non-conforming services, Sanjel will reimburse you for costs of a third party to repair such services, up to 10% of the original work order for such services. If fishing services are required to retrieve goods, Sanjel may specify the provider and be present during recovery. The remedies will not apply if damage is caused by: (i) your failure to properly store or maintain the goods, (ii) abnormal well conditions, abrasive materials, corrosion due to aggressive fluids or incorrect specifications, (iii) unauthorized alteration or repair of the goods, (iv) loss of goods while on your site due to your or any third party's negligence, vandalism or force majeure, (v) Sanjel's lack of or incorrect information regarding well conditions, or (vi) use or handling of the goods in a manner inconsistent with Sanjel's recommendations. Sanjel's warranty obligations will terminate if you fail to perform your obligations, including your failure to pay on time.

7. **Delay and Cancellation.** If Sanjel cannot provide goods or services to you due to circumstances beyond its control, Sanjel may charge you actual costs incurred, including but not limited to: mileage; blending; materials (including handling and hauling); return delivery and restocking charges; and all location time in excess of the location time allowance. Orders for goods or services that you cancel after Sanjel has procured the required materials may be subject to a 25% restocking fee. If Sanjel provides materials to your specifications and you cancel for any reason (including an uncontrollable event) you will be charged a cancellation fee plus actual costs incurred as a result of such cancellation.

8. **Taxes.** Prices are exclusive of any municipal, state, federal, special or use taxes or levies imposed on the sale of goods or services. You will be responsible for all

taxes applicable to the provision of the goods or services.

9. **Additional Services Requests.** You will pay for services, equipment or materials not listed in a proposal but purchased or rented by Sanjel at your request at cost plus 25%. Sanjel has no liability to you for such services, equipment or materials.

10. **Proprietary Rights.** You acknowledge that any intellectual property Sanjel uses in connection with the T&Cs, or that is created or developed by Sanjel in the course of performing under the T&Cs, is the property of Sanjel at all times, and you understand that you are not entitled to any intellectual property rights in any of Sanjel's intellectual property, except as required to receive the benefit of the goods or services.

11. **Confidentiality.** Any non-public information that we learn about each other in connection with the T&Cs, including our relationship, is confidential information of the disclosing party, and neither of us may disclose confidential information of the other to any third party without the prior written consent of the disclosing party. We may each use confidential information of the other to perform under the T&Cs, and may share it only on a need-to-know basis with employees.

12. **Indemnity.** (A) Subject to Section 12(b) below, each of us ("Indemnitor") hereby agrees to release, defend, indemnify and hold the other, its affiliates, officers, directors, agents, partners, joint venturers, employees and contractors of every tier ("Indemnitee Group") harmless for all losses, claims, demands, causes of action, costs and expenses (including reasonable legal fees) (collectively, "Claims"), for personal injury, death and property damage to Indemnitor, its affiliates, officers, directors, agents, partners, joint venturers, employees and contractors of every tier arising out of or incident to the T&Cs or any goods or services provided hereunder, without regard to whether such Claim is caused, in whole or in part, by the negligence (whether sole, joint or concurrent, active or passive), contractual liability or other fault of any member of the Indemnitee Group or by any defect or pre-existing condition (whether known or unknown, patent or otherwise). (B) You hereby agree to release, defend, indemnify and hold Sanjel harmless for any Claims Sanjel may suffer or incur arising out of or incident to: well blowout or any uncontrolled well condition, fire, cratering, redrill or sidetracking, seepage or reservoir damage, loss or damage to the hole, pollution and contamination (except sudden and accidental pollution originating above the service of the earth and emanating from Sanjel's equipment while in Sanjel's care, custody and control), and loss or damage to Sanjel's (or its contractors') equipment while down the hole at new replacement value; even if caused in whole or in part by the sole, joint or concurrent negligence or other fault of Sanjel or any other person.

13. **Consequential Damages Exclusion:** Notwithstanding anything to the contrary, neither of us will be liable to the other for business interruptions, punitive, indirect or consequential damages relating to the goods or services (including but not limited to any loss of profit, loss of expected revenue, loss of hydrocarbons or loss of rig time).

14. **Disposal of Chemicals.** You will arrange and be responsible for the disposal of any used chemicals and hazardous materials related to the goods or services.

15. **Insurance.** Each of us will maintain, at its own cost, commercial general liability insurance covering its indemnification obligations under the T&Cs with combined single limits of at least \$5,000,000 per occurrence and in the aggregate, worker's compensation coverage as and in amounts required by applicable law, and automobile liability coverage with a combined single limit of \$2,000,000. We will obtain insurance from carriers with AM Best ratings of at least A-VII (or equivalent), ensure the other party is named as an additional insured, and ensure that our carriers waive rights of subrogation against the other party.

16. **Uncontrollable Events.** Except for payment obligations, if either of us is unable to comply with the T&Cs because of events beyond our reasonable control, we will promptly notify the other in writing and will make reasonable efforts to restore our ability to perform as soon as possible. If the inability to perform continues for more than 10 days, the other party may cancel the applicable job immediately, by giving written notice to the affected party.

17. **Waiver.** Failure to enforce any or all of the T&Cs will not relieve either party of its rights or obligations or constitute a waiver or prevent further enforcement.

18. **Assignment.** You will not assign any of your rights or obligations under this PO without Sanjel's approval, which Sanjel may not unreasonably withhold. Any assignment in violation of this provision will be null and void.

19. **Governing Law.** We agree that the laws of the State of Colorado govern the T&Cs, without the application of choice of law rules. Each of us voluntarily submits to the jurisdiction and venue of the federal or state courts (as applicable) of the State of Colorado for the adjudication of all disputes under the T&Cs.

April 2014