



**Pumping
Service Report**

9198997

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2211A	Rig Frontier 26	Job Date November 01, 2014	Call Sheet 1049762
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

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	35.000	--	--	--	--

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	26.000	P-110	6,210.0	9,520.0	227.96	6.276	7.656	0.0	5,958.0

Products

Stage 1

From Depth (ft):	5958
To Depth (ft):	0

Acids/Blends/Fluids :

Lead 1: 445 Sacks of 1:2:6 G, Density = 12.5 lb/gal, Volume Pumped = 153 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 85
+ 0.5 % of CFL-4 (Preblend),
+ 0.2 % of CFR (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) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 85
+ 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: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
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	6,003.910	Client
Float Collar	5,958.000	Client

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				11/01/2014 14:00	11/01/2014 21:00
449087	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	11/01/2014 14:00	11/01/2014 21:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	11/01/2014 14:00	11/01/2014 21:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Maguire, Matthew	11/01/2014 14:00	11/01/2014 21:00		
Hansen, Kevin	11/01/2014 14:00	11/01/2014 21:00		
Tylo, Christopher	11/01/2014 14:00	11/01/2014 21:00		
Leue, David	11/01/2014 14:00	11/01/2014 21:00		
Bark, Eric	11/01/2014 14:00	11/01/2014 21:00		

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	Nov 01, 2014 14:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 01, 2014 14:10	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Talked about Job safety and concerns. Filled out JSA						
3	Nov 01, 2014 14:30	Rig In	---	--	--	--	--	0.00
		Remarks: Rigged in ground iron, Water lines and product lines						
4	Nov 01, 2014 16:35	STEACS Briefing	---	--	--	--	--	0.00
		Remarks: Signed our JSA and Rigs JSA. Went over job specs and safety issues without crew and rig crew						
5	Nov 01, 2014 16:45	Sign-off on Safety	---	--	--	--	--	0.00
6	Nov 01, 2014 16:57	Start - Fluid	Water	2.00	300.0	--	3.00	3.00
		Remarks: Filled lines for pressure test						
7	Nov 01, 2014 17:05	Pressure Test	---	--	5,000.0	--	--	3.00
		Remarks: pressure test good						
8	Nov 01, 2014 17:06	Pump	Water	3.00	400.0	--	10.00	13.00
		Remarks: Pumped Fresh Water						
9	Nov 01, 2014 17:14	Pump	Water	3.00	400.0	--	10.00	23.00
		Remarks: Pumped Red Dye						
10	Nov 01, 2014 17:20	Pump Preflush	Water	3.50	400.0	--	20.00	43.00
		Remarks: Pumped Visweep with Barite						
11	Nov 01, 2014 17:30	Mix Cement	1:2:6 G	5.50	800.0	--	153.00	196.00
		Remarks: Pumped Lead @ D-12.5						
12	Nov 01, 2014 18:00	Mix Cement	1:1:0 Poz G	6.50	700.0	--	57.00	253.00
		Remarks: Pumped @ D-13.5						
13	Nov 01, 2014 18:10	Stop	---	--	--	--	--	253.00
14	Nov 01, 2014 18:15	Drop Plug	---	--	--	--	--	253.00
15	Nov 01, 2014 18:18	Pump Displacement	Water Based Mud	4.50	1,800.0	--	221.00	474.00
16	Nov 01, 2014 19:15	Bump Plug	---	--	2,400.0	--	--	474.00
		Remarks: Plug Bumped						
17	Nov 01, 2014 19:17	Check Float	---	--	2,400.0	--	--	474.00
		Remarks: Floats Held						
18	Nov 01, 2014 19:18	Hold Pressure	---	--	2,100.0	--	--	474.00
		Remarks: 30 Minute casing test. Start test pressure 2100 after 30 minutes pressure climbed to 2175						
19	Nov 01, 2014 19:48	Stop	---	--	--	--	--	474.00
20	Nov 01, 2014 19:50	Wash	---	--	--	--	--	474.00
		Remarks: Wash all tanks, valves						
21	Nov 01, 2014 20:15	Rig Out	---	--	--	--	--	474.00
		Remarks: Rigged down all iron, mud lines, water lines						
22	Nov 01, 2014 20:45	Job Complete	---	--	--	--	--	474.00
23	Nov 01, 2014 20:50	Pre-Departure Meeting	---	--	--	--	--	474.00
		Remarks: Discussed journey management for trip to Sanjel yard						
24	Nov 01, 2014 21:00	Leave Location	---	--	--	--	--	474.00
		Remarks: Return to yard						



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Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 66
Temperature (°F) : 70
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

54806

54808

54807

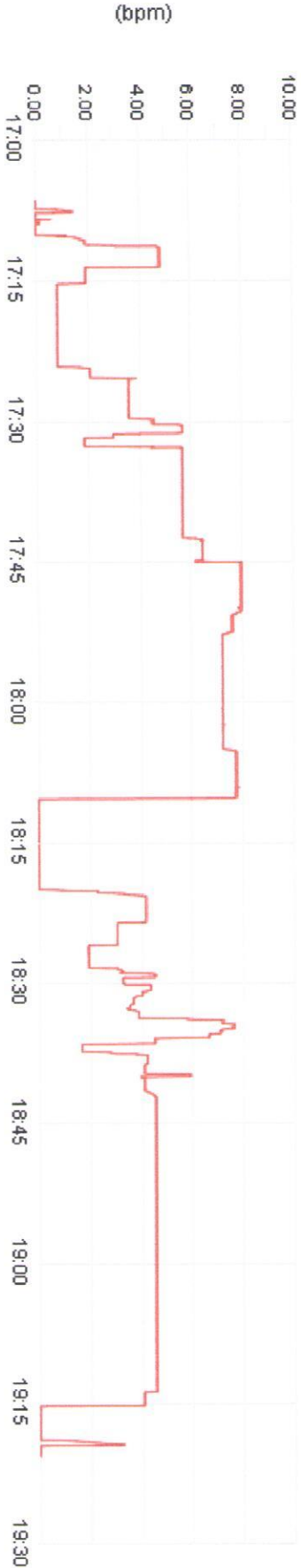
Comments To Service Report

Job went well, Pumped 153BBLS lead @ D-12.5, 57 BBLS tail @ D-13.5, Displaced 221 BBLS and bumped plug All sanjel equipment and crew worked well

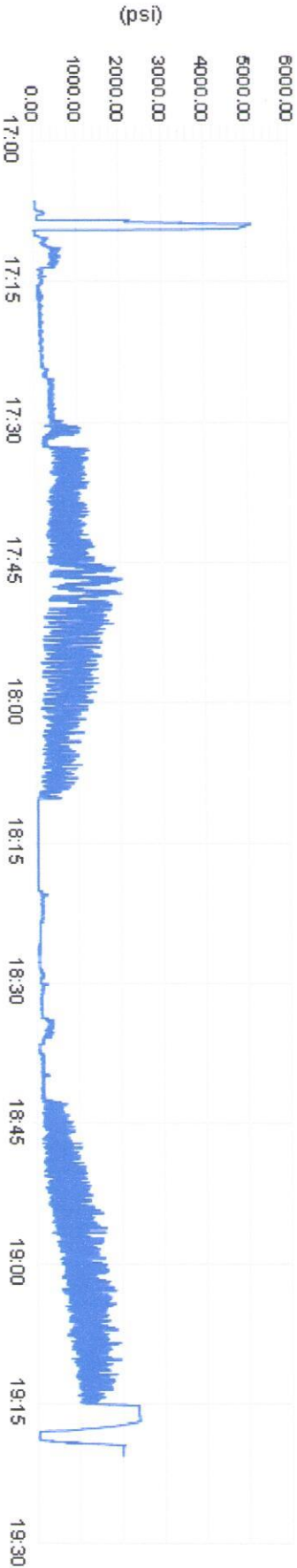


Client	Whiting Petroleum Corp	Client Rep	Kenny Wilkerson	Supervisor	Kevin Hansen
Ticket No.	918997	Well Name	Razor 27J-2211A	Unit No.	445047
Location	Sec 27:T10N:R58W	Job Type	Intermediate Casing	Service District	Ft Lupton
Comments	Filled lines, Pressure tested to 5000, Pump 10BBLs Fresh, Pumped 10 BBLs w Dye, Pumped 20 BBLs Visweep, 153 BBLs Lead cement @ D 12.5, 57 BBLs Tail @13.5, Stop, Drop Plug, Displace 221 BBLs slowing to 2 BBLs a min @210 away, Stop, Check Floats, Casing test for 30 minutes @ 2000				
				Job Date	11/01/2014

Unit 445047 Rate Total



Unit 445047 Pump Pressure



Unit 445047 Density

