



**Pumping  
Service Report**

**9201213**

Client Name Whiting Petroleum Corp.	Well Name Razor 33P-3315	Rig Frontier 26	Job Date December 04, 2014	Call Sheet 1051396
Client Representative Kenny Wilkerson	Surface Well Location SW SE Sec 33:T10N:R68W	Down Hole Well Location	Job Type Intermediate Casing	

**Well Profile**

Well Type:	Oil
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	25.000	1,550.000	6,034.000	—	—

**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	224.15	6.184	7.656	0.0	6,034.0
9.625	36.000	J-55	2,020.0	3,520.0	119.83	8.921	10.625	0.0	1,550.0

**Products**

**Stage 1**

From Depth (ft):	0
To Depth (ft):	3908

**Acids/Blends/Fluids :**

Lead 1: 455 Sacks of 1:2:6 Poz G Gel, Density = 12.5 lb/gal, Volume Pumped = 153 (bbl)  
Water Temperature(°F) = 80 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 75  
+ 0.2 % of CFR (Preblend),  
+ 0.5 % of CFL-4 (Preblend),  
+ 0.15 % of LTR (Preblend),  
+ 0.25 lb/sack of Polyflake (Preblend)

**Stage 2**

From Depth (ft):	3908
To Depth (ft):	6034

**Acids/Blends/Fluids :**

Tail: 210 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 57 (bbl)  
Water Temperature(°F) = 80 , Bulk Temperature(°F) = 45 , Slurry Temperature(°F) = 75  
+ 8 % of SilFume (Preblend),  
+ 2 % of Gel (Preblend),  
+ 0.1 % of CFR-5 (Preblend),  
+ 0.7 % of CFL-3 (Preblend),  
+ 0.3 % of LTR (Preblend),  
+ 0.25 lb/sack of Polyflake (Preblend)

**Fluid & Cement Data**

Expected Cement Top: Surface

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jul 14, 2014 20:27
Water Based Mud	--	--	--	--	Oct 09, 2014 19:06



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**Attachment & Tools**

**Down Hole Tools**

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	6,034.000	Third Party
Float Collar	5,988.000	Third Party

**Tubular Plugs**

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	7.000	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>
201191	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	12/03/2014 23:59	12/04/2014 12:40
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	12/03/2014 23:59	12/04/2014 12:40
200868	PICKUP	3/4 Ton				12/03/2014 23:59	12/04/2014 12:40

**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	12/03/2014 23:59	12/04/2014 12:40		
Leue, David	12/03/2014 23:59	12/04/2014 12:40		
Melgarejo Herrera, Eduardo	12/03/2014 23:59	12/04/2014 12:40		
Peterson, Ryan	12/03/2014 23:59	12/04/2014 12:40		
Laeger, Kacey	12/03/2014 23:59	12/04/2014 12:40		

**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	Dec 03,2014 23:59	Arrive On Location	—	—	—	—	—	0.00
		Remarks: Rig was running casing						
2	Dec 04,2014 06:00	STEACS Briefing	—	—	—	—	—	0.00
		Remarks: Held						
3	Dec 04,2014 06:30	Rig In	—	—	—	—	—	0.00
4	Dec 04,2014 07:00	Safety Meeting	—	—	—	—	—	0.00
		Remarks: Held						
5	Dec 04,2014 07:30	Sign-off on Safety	—	—	—	—	—	0.00
6	Dec 04,2014 08:21	Start - Fluid	Water	1.00	200.0	—	1.00	1.00
		Remarks: Filled lines						
7	Dec 04,2014 08:23	Pressure Test	Water	—	3,500.0	—	—	1.00
		Remarks: 3500psi lines held good						
8	Dec 04,2014 08:32	Establish Circulation	Water	3.00	600.0	—	20.00	21.00
		Remarks: Good circulation						
9	Dec 04,2014 08:32	Mix Cement	1:2:6 Poz G Gel	6.00	1,400.0	—	153.00	174.00
		Remarks: 455sks of lead at 12.5 lb/gal						
10	Dec 04,2014 09:19	Mix Cement	1-1-0 G	3.00	600.0	—	57.00	57.00
		Remarks: 210sks of tail at 13.5 lb/gal						
11	Dec 04,2014 09:40	Stop	—	—	—	—	—	57.00
12	Dec 04,2014 10:02	Drop Plug	—	—	—	—	—	57.00
13	Dec 04,2014 10:03	Displace Fluid	Water Based Mud	5.00	—	—	—	57.00
14	Dec 04,2014 11:20	Bump Plug	Water Based Mud	2.00	1,250.0	—	222.00	279.00
		Remarks: Bump pump on time 500psi over circulating pressure						
15	Dec 04,2014 11:21	Finish Displacement	Water Based Mud	—	1,750.0	—	222.00	501.00
16	Dec 04,2014 11:26	Check Float	—	—	0.0	—	—	501.00
		Remarks: 1bbl Floats held good						
17	Dec 04,2014 11:30	Job Complete	—	—	—	—	—	501.00
18	Dec 04,2014 11:30	Wash	—	—	—	—	—	501.00
19	Dec 04,2014 11:50	Tailgate Meeting	—	—	—	—	—	501.00
		Remarks: Revisit JSA for rig down						
20	Dec 04,2014 12:00	Rig Out	—	—	—	—	—	501.00
21	Dec 04,2014 12:30	Pre-Departure Meeting	—	—	—	—	—	501.00
		Remarks: Held						
22	Dec 04,2014 12:40	Leave Location	—	—	—	—	—	501.00



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**Treatment Reports & Remarks**

Did Float Hold: Yes  
Fluid Returns : Yes  
Type : Cement  
Volume (bbl) : 57  
Temperature (°F) : 60  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design? : Yes

**Material Transfer Sheet Number**

Material Transfer Sheet Number

54220  
54222  
54221

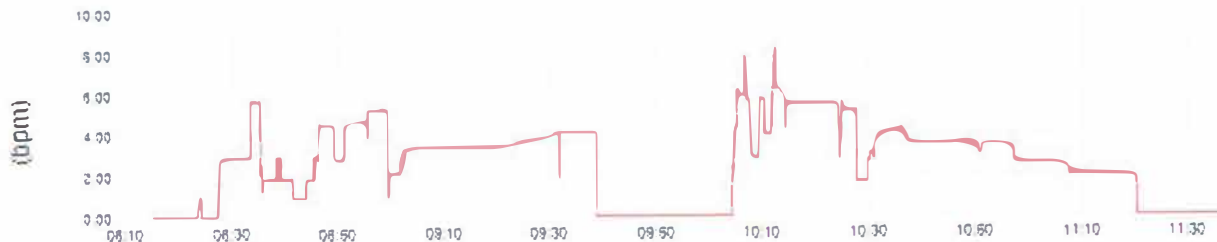
**Comments To Service Report**

Arrive on location Rig was still running casing wait on rig for 5 hrs to finish casing. Steacs briefing held rig up sanjel hold safty meeting sign off on safty fill lines pressure test 3500psi run 20bbls fresh water ahead company man said not to run the weighted space mix lead cement 455sks of 1:2:6 poz G at 12.5 lb/gal mix tail cement 210sks of 0:1:0 poz G at 13.5 lb/gal stop drop plug displace 222bbls of mud to bump plug 500 psi over cirulating pressure bleed off check floats tailgate meeting revisit JSA rig down sanjel was up cement pump departure meeting leave location

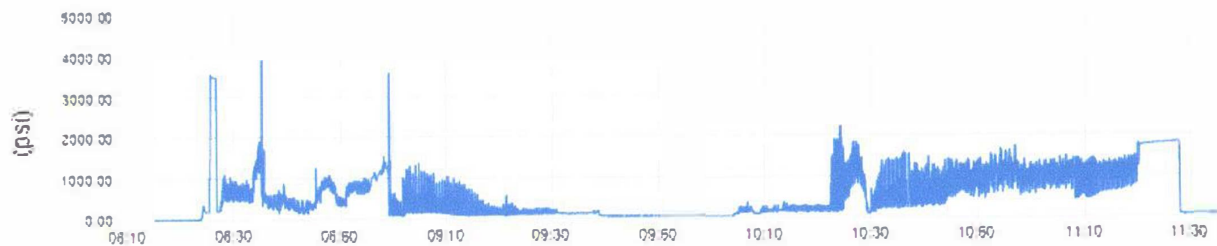


Client	Whiting Petroleum Corp.	Client Rep	Kenny Wilkerson	Supervisor	Kacey Laeger
Ticket No.	9201213	Well Name	Razor 33P-3315	Unit No.	745024
Location	SW SE Sec 33:T10N:R68W	Job Type	Intermediate Casing	Service District	Fort Lupton
Comments	Lead 445sk of 1:2:6 Poz G at 12.5 lb/gal Tail 210sk of 1-1-0 G at 13.5 lb/gal			Job Date	12/04/2014

Unit 745024 Rate Total



Unit 745024 Pump Pressure



Unit 745024 Density

