



**Pumping
Service Report**

9200831

Client Name Whiting Petroleum Corp.	Well Name Razor 33P-3314	Rig Frontier 26	Job Date November 19, 2014	Call Sheet 1050671
Client Representative Kenny Wilkerson	Surface Well Location Sec 33: T 10N: R58W	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	30.000	--	--	--	--

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		--	--	--	--	--	0.0	6,100.0

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 6100

Acids/Blends/Fluids:

Lead 1: 445 Sacks of 1:2:6 POZ G Gel, Density = 12.5 lb/gal, Volume Pumped = 149.8 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 50

- + 0.2 % of CFR (Preblend),
- + 0.5 % of CFL-4 (Preblend),
- + 0.15 % of LTR (Preblend),
- + 0.25 lb/sack of Polyflake (Preblend),
- + 6 % of Gel (Preblend)

Tail: 210 Sacks of 1:1:0 Poz G Gel, Density = 13.5 lb/gal, Volume Pumped = 35.6 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 50

- + 8 % of Fume (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	--	Third Party
Float Collar	--	Third Party

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	7.000	Sanjel

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>
201274	PICKUP	3/4 Ton				11/18/2014 23:55	11/19/2014 08:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	11/18/2014 23:55	11/19/2014 08:30
201274	PICKUP	3/4 Ton				11/18/2014 23:55	11/19/2014 08:30

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	11/18/2014 23:55	11/19/2014 08:30		
Vitera, John	11/18/2014 23:55	11/19/2014 08:30		
Morris, Theodore	11/18/2014 23:55	11/19/2014 08:30		
Meisner, Jeremy	11/18/2014 23:55	11/19/2014 08:30		
Daylong, Eric	11/18/2014 23:55	11/19/2014 08:30		

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 18,2014 23:55	Arrive On Location	—	—	—	—	—	0.00
2	Nov 19,2014 00:05	Tailgate Meeting Remarks: Filled out JSA.	—	—	—	—	—	0.00
3	Nov 19,2014 01:00	Rig In	—	—	—	—	—	0.00
4	Nov 19,2014 02:50	STEACS Briefing	—	—	—	—	—	0.00
5	Nov 19,2014 03:00	Sign-off on Safety	—	—	—	—	—	0.00
6	Nov 19,2014 03:33	Start - Fluid Remarks: Filled lines.	Water	1.50	200.0	—	2.00	2.00
7	Nov 19,2014 03:35	Pressure Test Lines Remarks: All lines held pressure.	—	—	3,000.0	—	—	2.00
8	Nov 19,2014 03:37	Pump Preflush Remarks: Fresh ahead + red dye.	Water	4.00	400.0	—	10.00	12.00
9	Nov 19,2014 03:48	Pump Preflush Remarks: Water + WG-1L + Barite.	Water	3.00	400.0	—	20.00	32.00
10	Nov 19,2014 03:59	Mix Cement Remarks: LEAD cement, 107.4 bbls mix water.	1:2:6 POZ G Gel	4.00	700.0	—	149.80	181.80
11	Nov 19,2014 04:45	Mix Cement Remarks: TAIL cement. 35.6 bbls mix water.	1:1:0 Poz G Gel	4.00	150.0	—	56.80	238.60
12	Nov 19,2014 05:10	Stop	—	—	—	—	—	238.60
13	Nov 19,2014 05:25	Drop Plug	—	—	—	—	—	238.60
14	Nov 19,2014 05:26	Displace Fluid	Water Based Mud	6.00	1,616.0	—	223.00	461.60
15	Nov 19,2014 06:22	Bump Plug Remarks: Checked floats and floats held.	—	—	1,616.0	—	—	461.60
16	Nov 19,2014 06:30	Hold Pressure Remarks: 2200psi when released @ 07:07, 1.75 bbls back.	—	—	2,000.0	—	—	461.60
17	Nov 19,2014 07:08	Stop	—	—	—	—	—	461.60
18	Nov 19,2014 07:15	Wash	Water	1.50	100.0	—	20.00	461.60
19	Nov 19,2014 07:50	Rig Out	—	—	—	—	—	461.60
20	Nov 19,2014 08:20	Pre-Departure Meeting	—	—	—	—	—	461.60
21	Nov 19,2014 08:25	Job Complete	—	—	—	—	—	461.60
22	Nov 19,2014 08:30	Leave Location	—	—	—	—	—	461.60

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 53
Temperature (°F) : 50
EDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes



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Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

9650

54001

54002

Comments To Service Report

Arrive location, tailgate & JSA. Talked with company rep Mr. Tim Cheney, staged trucks, rig-in, STEACS briefing, sign off on safety. As the fork lift driver was moving my 23 bags of barite off my trailer and taking it to pump truck the pallet broke and some bags broke on the ground. I had extra barite to use and Mr. Kenny Wilkerson said his crew would take care of the spill. We filled lines w/ 2 bbls, PT 3000psi, 10 bbls (with dye) fresh ahead, 20 bbls visweep & Barite, LEAD: 149.8 bbls slurry @ 12.5 density, TAIL: 56.8 bbls slurry @ 13.5 density, drop plug, 223.0 bbls displacement, bumped plug @ 1622psi, (500psi over), hold pressure for 2 minutes to check floats, casing test, 2000psi for 30 minutes, stop, wash, rig out, pre departure meeting, leave location safely. I had issues with the tank air release valve on the laydown bin that made it hard to keep my density steady.



Client	Whiting Petroleum Corporation	Client Rep	Mr. Tim Cheney	Supervisor	Matthew Maguire
Ticket No.	9200831	Well Name	Razor 33P-3314	Unit No.	445047
Location	Sec 33:T10N:R58W Intermediate Base	Service District	505	Job Date	11/19/2014
Comments	Fill lines w/ 2 bbls. PT 3000psi, 10 bbls (with dye) fresh ahead, 20 bbls visweep & Barite, LEAD: 149.8 bbls slurry @ 12.5 density, TAIL: 56.8 bbls slurry @ 13.5 density, drop plug, 223.9 bbls displacement, bump plug 500psi over, hold pressure for 2 minutes to check floats, casing test, 2000psi for 30 minutes, stop, wash, rig out, pre departure meeting, leave location safely.				

