



**Pumping
Service Report**

9200841

Client Name Whiting Petroleum Corp.	Well Name Razor 33P-3316	Rig Frontier 26	Job Date December 08, 2014	Call Sheet 1051699
Client Representative Kenny Wilkerson	Surface Well Location Sec 33: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): — @ —

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)
13.500	25.000	0.000	1,601.000	--	--

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)
9.625	36.000	J-55	2,020.0	3,520.0	123.07	8.921	10.625	0.0	1,592.0

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 1543

Acids/Blends/Fluids :

Tail: 680 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 178 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

+ 0.25 lb/sack of Polyflake (Preblend),

+ 1 % of CaCl2 (Preblend)

Stage 2

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Extra Cement: 100 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 26 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

+ 2 % of CaCl2 (Prehydrate)

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	9.625	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>
201009	PICKUP	1 Ton				12/08/2014 11:30	12/08/2014 18:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	12/08/2014 11:30	12/08/2014 18:30
200868	PICKUP	3/4 Ton				12/08/2014 11:30	12/08/2014 18:30

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	12/08/2014 11:30	12/08/2014 18:30		
Doran, Benjamin	12/08/2014 11:30	12/08/2014 18:30		
Teegerstrom, Ty	12/08/2014 11:30	12/08/2014 18:30		
Molina, Alejandro	12/08/2014 11:30	12/08/2014 18:30		
Phillips, James	12/08/2014 11:30	12/08/2014 18:30		

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	Dec 08,2014 11:30	Arrive On Location	---	--	--	--	--	0.00
2	Dec 08,2014 11:40	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Fiilled out JSA.						
3	Dec 08,2014 12:00	Rig In	---	--	--	--	--	0.00
4	Dec 08,2014 15:20	STEACS Briefing	---	--	--	--	--	0.00
5	Dec 08,2014 15:30	Sign-off on Safety	---	--	--	--	--	0.00
6	Dec 08,2014 15:44	Start - Fluid	Water	2.00	110.0	--	2.00	2.00
		Remarks: Filled lines.						
7	Dec 08,2014 15:46	Pressure Test Lines	---	--	3,000.0	--	--	2.00
		Remarks: All lines held pressure.						
8	Dec 08,2014 15:53	Pump Preflush	Water	5.00	200.0	--	10.00	12.00
		Remarks: Water + dye indicator.						
9	Dec 08,2014 15:57	Mix Cement	0:1:0 Type III	7.00	350.0	--	178.00	190.00
		Remarks: WR=7.36, Y=1.47, D=14.2, Sk Wt=95.19, 119.3 bbls mix water.						
10	Dec 08,2014 16:26	Stop	---	--	--	--	--	190.00
11	Dec 08,2014 16:28	Drop Plug	---	--	--	--	--	190.00
12	Dec 08,2014 16:29	Displace Fluid	Water Based Mud	7.00	1,100.0	--	119.30	309.30
13	Dec 08,2014 16:53	Bump Plug	---	--	1,100.0	--	--	309.30
		Remarks: Bumped 500psi over.						
14	Dec 08,2014 16:55	Check Float	---	--	--	--	--	309.30
		Remarks: Float held. 1 bbl back to truck.						
15	Dec 08,2014 16:59	Pressure Test	---	--	1,500.0	--	--	309.30
		Remarks: Casing Test for 15 minutes. Test successful.						
16	Dec 08,2014 17:15	Stop	---	--	--	--	--	309.30
		Remarks: Released pressure, 1 bbl back to truck.						
17	Dec 08,2014 17:30	Wash	Water	1.50	100.0	--	20.00	309.30
18	Dec 08,2014 18:00	Rig Out	---	--	--	--	--	309.30
		Remarks: Revisit JSA.						
19	Dec 08,2014 18:15	Pre-Departure Meeting	---	--	--	--	--	309.30
20	Dec 08,2014 18:20	Job Complete	---	--	--	--	--	309.30
21	Dec 08,2014 18:25	Leave Location	---	--	--	--	--	309.30
		Remarks: Revisit JSA.						

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 45

Temperature (°F) : 65

FDAS 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

54295

54298

54299

Comments To Service Report

Arrive location, 680 Sacks 0-1-0 Type III cement, WR=7.36, Y=1.47. D=14.2, Sk Wt=95.19, 178 bbls slurry, 119.2 bbls mix water, displace 119.3 bbls of mud, bump plug @ 1100psi (500psi over), check float, 1500psi casing test for 15 minutes, stop, wash up, revisit JSA, rig-out, pre departure meeting, revisit JSA, leave location safely.



Client	Whiting Petroleum Corp	Client Rep	Mr Kenny Wilkerson	Supervisor	Matthew Maguire
Ticket No.	9200841	Well Name	Razor 33P-3316	Unit No.	445047
Location	Sec 33:T10N:R58W	Job Type	Surface Casing	Service District	Fort Lupton
Comments	680 Sacks 0-1-0 Type III cement, WR=7.36, Y=1.47. D=14.2, Sk Wt=95.19, 178 bbls slurry, 119.2 bbls mix water, displace 119.3 bbls of mud, bump plug @ 1100psi (500psi over), check float, 1500psi casing test for 15 minutes, stop, wash up, revisit JSA, rig-out, pre departure meeting, revisit JSA, leave location safely.				

