



**Pumping
Service Report**

9200715

Client Name Whiting Petroleum Corp.	Well Name Razor 33P-3314	Rig Frontier 26	Job Date November 22, 2014	Call Sheet 1050848
Client Representative Kenny Wilkerson	Surface Well Location Sec 33:T10N:R58W	Down Hole Well Location	Job Type Liner 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)
6.000	15.000	--	--	--	--

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)
4.500	11.600	--	--	--	--	--	--	4,969.0	10,508.0

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 10528

Acids/Blends/Fluids :

Tail: 375 Sacks of 1:1:0 Poz:G, Density = 13.7 lb/gal, Volume Pumped = 99 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 65

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

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	--	Third Party
Floot Collar	--	Third Party



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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
445093	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	11/22/2014 06:30	11/22/2014 13:30
445070	TRAILER	SCM Twin				11/22/2014 06:30	11/22/2014 13:30
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Hansen, Kevin	11/22/2014 06:30		11/22/2014 13:30				
Durfsbergen, Scott	11/22/2014 06:30		11/22/2014 13:30				
Svoboda, Miloslav	11/22/2014 06:30		11/22/2014 13:30				
Martinez, Fernando	11/22/2014 06:30		11/22/2014 13:30				

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	Nov 22, 2014 06:30	Arrive On Location	—	—	—	—	—	0.00
2	Nov 22, 2014 06:40	Tailgate Meeting	—	—	—	—	—	0.00
		Remarks: Discussed spotting of trucks and filled out JSA						
3	Nov 22, 2014 07:30	Rig In	—	—	—	—	—	0.00
		Remarks: Rigged in all ground iron and product, water lines						
4	Nov 22, 2014 08:20	STEACS Briefing	—	—	—	—	—	0.00
		Remarks: Discussed job and safety concerns						
5	Nov 22, 2014 08:45	Sign-off on Safety	—	—	—	—	—	0.00
		Remarks: Signed our JSA and the riggs JSA						
6	Nov 22, 2014 10:00	Start - Fluid	—	2.00	600.0	—	3.00	3.00
		Remarks: Filled lines for pressure test						
7	Nov 22, 2014 10:12	Pressure Test	—	—	5,000.0	—	—	3.00
8	Nov 22, 2014 10:20	Establish Circulation	Water	4.50	1,000.0	—	10.00	13.00
		Remarks: Fresh water with Dye						
9	Nov 22, 2014 10:23	Pump Preflush	Water	4.50	1,000.0	—	30.00	43.00
		Remarks: Pumped Visweep						
10	Nov 22, 2014 10:30	Mix Cement	1:1:0 Poz:G	5.50	1,000.0	—	99.00	142.00
		Remarks: Pumped @ D-13.7						
11	Nov 22, 2014 10:50	Stop	—	—	—	—	—	142.00
12	Nov 22, 2014 10:57	Wash	Water	0.50	50.0	—	5.00	147.00
		Remarks: Washed our lines thru T and valve up on rig floor						
13	Nov 22, 2014 11:07	Wait On Instructions	—	—	—	—	—	147.00
		Remarks: Weatherford dropped dart						
14	Nov 22, 2014 11:10	Pump Displacement	Water	5.50	1,700.0	—	118.00	265.00
15	Nov 22, 2014 11:34	Bump Plug	—	—	2,000.0	—	—	265.00
		Remarks: Bumped dart						
16	Nov 22, 2014 11:37	Check Float	—	—	—	—	—	265.00
		Remarks: Float held 1/2 BBL back						



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Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
17	Nov 22, 2014 11:42	Pump	Water	4.00	1,500.0	--	5.00	270.00
		Remarks: Pumped wet shoe						
18	Nov 22, 2014 11:55	Wait On Instructions	--	--	--	--	--	270.00
19	Nov 22, 2014 12:00	Pump	Water	--	1,500.0	--	--	270.00
		Remarks: Tested backside pressure for 5 minutes						
20	Nov 22, 2014 12:10	Pump Displacement	Water	6.50	1,100.0	--	204.00	474.00
		Remarks: Rolled the hole						
21	Nov 22, 2014 12:40	Stop	--	--	--	--	--	474.00
22	Nov 22, 2014 12:45	Wash	--	--	--	--	--	474.00
23	Nov 22, 2014 13:00	Rig Out	--	--	--	--	--	474.00
24	Nov 22, 2014 13:20	Job Complete	--	--	--	--	--	474.00
25	Nov 22, 2014 13:25	Pre-Departure Meeting	--	--	--	--	--	474.00
		Remarks: Discussed journey management back to Sanjel yard						
26	Nov 22, 2014 13:30	Leave Location	--	--	--	--	--	474.00
		Remarks: Headed to yard						

Did Float Hold: Yes

Fluid Returns: Yes

Type: Cement

Volume (bbl): 22

Temperature (°F): 65

FDAS Functioning Correctly: Yes

Was the Program Followed As Per Design?: Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

54066

54065

Comments To Service Report

Job went well no incidents occurred while doing this job. All Sanjel equipment and crew worked well.



Client	Whiting Petroleum Corp	Client Rep	Kenny Wilkerson	Supervisor	Kevin Hansen
Ticket No.	9200715	Well Name	Razor 33P-3314	Unit No.	745070
Location	Sec 33:T10N:R58W	Job Type	Liner Casing	Service District	Ft Lupton
Comments				Job Date	11/22/2014

