



**Pumping
Service Report**

9189403

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3412B	Rig Frontier 26	Job Date July 27, 2014	Call Sheet 1044673
Client Representative Kenny Wilkerson	Surface Well Location Sec 27: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):	100.00	@	--	
Bottom Hole Circulating Temperature (°F):	80.00	@	--	
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	1,615.000	--	--

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	123.74	8.921	10.625	0.0	1,600.6

Products

Stage 1

From Depth (ft):	0
To Depth (ft):	1600
Acids/Blends/Fluids :	
Tail: 680 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 120.2 (bbl)	
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60	
+ 1 % of CaCl ₂ (Preblend),	
+ 0.25 % of Polyflake (Preblend)	

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jul 26, 2014 15:47

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Sanjel



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9189403

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>
449087	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	07/27/2014 06:00	07/27/2014 12:40
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	07/27/2014 06:00	07/27/2014 12:40
446167	TRAILER	Bulker	746167	TRACTOR	Tandem - Tractor	07/27/2014 06:00	07/27/2014 12:40
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	07/27/2014 06:00	07/27/2014 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>
Johnson, Quintin	07/27/2014 06:00	07/27/2014 12:40		
Morris, Theodore	07/27/2014 06:00	07/27/2014 12:40		
Lampp III, Larry	07/27/2014 06:00	07/27/2014 12:40		
Paiu, Vladislav	07/27/2014 06:00	07/27/2014 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	Jul 27, 2014 06:00	Arrive On Location	---	--	--	--	--	0.00
		Remarks: arrived on time						
2	Jul 27, 2014 06:30	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: talked about spotting trucks and rigging in						
3	Jul 27, 2014 08:45	Rig In	---	--	--	--	--	0.00
		Remarks: rigged into our head and and to our bulk trucks and water						
4	Jul 27, 2014 09:15	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: signed our and their JSA						
5	Jul 27, 2014 09:16	Safety Meeting	---	--	--	--	--	0.00
		Remarks: talked about the job scope and safety concerns						
6	Jul 27, 2014 09:30	Start - Fluid	Water	1.50	60.0	--	2.00	2.00
		Remarks: filled lines for pressure testing						
7	Jul 27, 2014 09:35	Pressure Test	Water	0.00	3,000.0	--	0.00	2.00
		Remarks: pressure our lines and they held						
8	Jul 27, 2014 09:40	Pump Preflush	Water	4.00	148.0	--	20.00	22.00
		Remarks: pumped fresh water preflush						
9	Jul 27, 2014 09:45	Mix Cement	0:1:0 Type III	5.50	174.0	--	178.00	200.00
		Remarks: mixed slurry at 14.2						
10	Jul 27, 2014 10:40	Stop	---	--	--	--	--	200.00
11	Jul 27, 2014 10:42	Drop Plug	---	--	--	--	--	200.00
		Remarks: droppd the plug						
12	Jul 27, 2014 10:43	Pump Displacement	Water	5.80	500.0	--	120.20	320.20
		Remarks: displace with water till plug bumps						
13	Jul 27, 2014 11:12	Bump Plug	Water	2.00	1,059.0	--	120.20	440.40
		Remarks: bumped the plug 500 psi over						
14	Jul 27, 2014 11:15	Check Float	Water	0.00	1,059.0	--	0.00	440.40
		Remarks: opened return line and got 3/4 bbls back						
15	Jul 27, 2014 11:16	Pressure Test	---	1.00	1,500.0	--	1.50	441.90
		Remarks: did a 1500 psi casing test for 10 min.						
16	Jul 27, 2014 11:26	Stop	---	--	--	--	--	441.90
		Remarks: rigged off the rig						
17	Jul 27, 2014 11:30	Rig Out	---	--	--	--	--	441.90
		Remarks: rigged our iron and water and bulk lines out						
18	Jul 27, 2014 12:10	Wash	Water	2.00	150.0	--	20.00	461.90
		Remarks: washed the mix and did run backs						
19	Jul 27, 2014 12:40	Pre-Departure Meeting	---	--	--	--	--	461.90
		Remarks: journey mangement						
20	Jul 27, 2014 12:50	Job Complete	---	--	--	--	--	461.90
		Remarks: do a walk around and check pins and for loose iron on trailers						
21	Jul 27, 2014 12:50	Leave Location	---	--	--	--	--	461.90
		Remarks: Go back to Sanjel yard						



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Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 38
Temperature (°F) : 72
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

9732

9733

9744

Client	Whiting Petroleum Corp	Client Rep	Kenny Wilkerson	Supervisor	Quintin Elmer Johnson
Ticket No.	9189403	Well Name	Razor 17-J-3412B	Unit No.	445052
Location	Sec 27: T10N : R58W	Job Type	Surface Casing	Service District	Fort Lupton
Comments	AS PER DESIGN			Job Date	07/27/2014

