



**Pumping
Service Report**

9191496

Client Name Whiting Petroleum Corp.	Well Name Razor 26I-2315A	Rig Frontier Drilling 26	Job Date June 07,2014	Call Sheet 1042779
Client Representative Kenny Wilkerson	Surface Well Location Sec 26:T10N:R57W	Down Hole Well Location	Job Type Surface Casing	

Well Profile									
Well Type:		Oil							
Maximum Treating Pressure (psi):		---							
Predicted Bottom Hole Static Temperature (°F):		200.00	@	--					
Bottom Hole Circulating Temperature (°F):		200.00	@	--					
Bottom Hole Logged Temperature (°F):		---	@	--					
Open Hole									
	<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>			
	13.500	20.000	0.000	1,590.000	--	--			
Casing									
<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
9.625	36.000	J-55	2,020.0	3,520.0	118.62	8.921	10.625	0.0	1,534.4

Products	
Stage 1	
From Depth (ft):	0
To Depth (ft):	1570
Acids/Blends/Fluids :	
Lead 1: 665 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 174.1 (bbl)	
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60	
+ 1 % of CaCl ₂ ,	
+ 0.25 lb/sack of Polyflake	

Fluid & Cement Data					
Expected Cement Top:		--			
Wellbore Fluid					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	--	--	--	May 20, 2014 04:37
Water Based Mud	--	--	--	--	Jun 08, 2014 02:59

Attachment & Tools		
Down Hole Tools		
<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Float Collar	1,486.600	Client
Tubular Plugs		
<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	Sanjel



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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>
449039	TRAILER	Utility Trailer	201274	PICKUP	3/4 Ton	06/08/2014 03:00	06/08/2014 11:30
445020	TRAILER	Twin Pumper	745020	TRACTOR	Tandem - Tractor	06/08/2014 03:00	06/08/2014 11:30
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	06/08/2014 03:00	06/08/2014 11:30
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	06/08/2014 03:00	06/08/2014 11:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Johnson, Quintin	06/08/2014 03:00	06/08/2014 11:30		
Schroeder, Stephen	06/08/2014 03:00	06/08/2014 11:30		
Martin, David	06/08/2014 03:00	06/08/2014 11:30		
Paiu, Corneliu	06/08/2014 03:00	06/08/2014 11:30		
Melgarejo Herrera, Eduardo	06/08/2014 03:00	06/08/2014 11:30		
Jones, Christopher	06/08/2014 03:00	06/08/2014 11:30		

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	Jun 08,2014 03:00	Arrive On Location	---	--	--	--	--	0.00
		Remarks: arrived on time						
2	Jun 08,2014 06:45	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: talked about spotting trucks and rigging up						
3	Jun 08,2014 06:55	Rig In	---	--	--	--	--	0.00
		Remarks: rigged in our bulk trucks and to the mud line and water line						
4	Jun 08,2014 08:30	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: signed their and out JSA						
5	Jun 08,2014 08:31	Safety Meeting	---	--	--	--	--	0.00
		Remarks: talked about safety concerns and job scope						
6	Jun 08,2014 09:00	Start - Fluid	Water	2.00	60.0	--	2.00	2.00
		Remarks: filled lines for pressure test						
7	Jun 08,2014 09:17	Pressure Test	---	0.00	3,000.0	--	0.00	2.00
		Remarks: pressured lines and they held good						
8	Jun 08,2014 09:19	Pump Preflush	Water	5.00	80.0	--	20.00	22.00
		Remarks: pumped a 20 bbls fresh spacer						
9	Jun 08,2014 09:23	Mix Cement	0:1:0 Type III	3.75	172.0	--	174.10	196.10
		Remarks: mixed slurry at 14.2 reading of my mud scale						
10	Jun 08,2014 10:18	Drop Plug	---	--	--	--	--	196.10
		Remarks: drop the plug						
11	Jun 08,2014 10:24	Pump Displacement	Water Based Mud	2.00	550.0	--	116.00	312.10
		Remarks: bumped the plug at 1050 and pumped it at 2 bbls per minute on the last 10						
12	Jun 08,2014 10:57	Check Float	---	0.00	1,050.0	--	0.00	312.10
		Remarks: check the floats after holding for 5 minutes						
13	Jun 08,2014 10:59	Pressure Test Lines	Water	1.00	1,000.0	--	1.50	313.60
		Remarks: pressure casing to 1000psi and held for 15 minutes						
14	Jun 08,2014 11:16	Stop	---	--	--	--	--	313.60
		Remarks: bled of pressure after 15 minutes and rigged off for pressure testing						
15	Jun 08,2014 11:18	Wash	Water	2.00	150.0	--	30.00	313.60
		Remarks: washed up the mix side and did run backs						
16	Jun 08,2014 11:22	Rig Out	---	--	--	--	--	313.60
		Remarks: rigged out while washing up						
17	Jun 08,2014 12:00	Pre-Departure Meeting	---	--	--	--	--	313.60
		Remarks: journey mangement						
18	Jun 08,2014 12:10	Job Complete	---	--	--	--	--	313.60
		Remarks: do walk around and make sure things are put up and pins are in						
19	Jun 08,2014 12:20	Leave Location	---	--	--	--	--	313.60
		Remarks: leave location and go back to sanjel yard						



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Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 36
Temperature (°F) : 75
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

258260

258258



Client	Whiting Petroleum	Client Rep	Mr. Kenny Wilkerson	Supervisor	Quintin Elmer Johnson
Ticket No.	9191496	Well Name	Razor 261-2315B	Unit No.	445020
Location	SEC 26:T10N-R57W	Job Type	Surface Casing	Service District	FORT LUPTON,CO
Comments	2 bbls to fill lines, pressure test 3000 psi, 20 bbls to Establish circulation, mix slurry 174.1 bbls at 14.2, Stop and Drop Plug, displace 114.1 bbls of mud, bump pug 500# over, stop hold pressure for 5 minutes. bleed back and check floats, rig off, wash				
				Job Date	06/08/2014

