



**Pumping
Service Report**

9191320

Client Name Whiting Petroleum Corp.	Well Name Razor 26I-2313A	Rig Frontier Drilling 26	Job Date May 31, 2014	Call Sheet 1042494
Client Representative Kenny Wilkerson	Surface Well Location Sec 26: T10N: R58W	Down Hole Well Location	Job Type Intermediate 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

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	--	0.000	61,341.000	--	--

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)
0.000	29.000	L-80	7,030.0	8,160.0	--	6.184	7.656	0.0	6,131.0

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 6100

Acids/Blends/Fluids:

Lead 1: 455 Sacks of 1-1-6 G, Density = 12.5 lb/gal, Volume Pumped = 163 (bbl)
Water Temperature(°F) = 60, Bulk Temperature(°F) = 60, Slurry Temperature(°F) = 60
+ 0.2 % of CFR (Preblend),
+ 0.5 % of CFL-4 (Preblend),
+ 0.15 % of LTR (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Tail: 210 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 70 (bbl)
Water Temperature(°F) = 60, Bulk Temperature(°F) = 60, Slurry Temperature(°F) = 60
+ 8 % of SilFume (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: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	May 20, 2014 04:37
Water Based Mud	--	--	--	--	May 30, 2014 11:40



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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Float Collar	6,085.000	Third Party
Guide Shoe	6,131.000	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>
449095	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	05/30/2014 11:00	05/31/2014 12:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	05/30/2014 11:00	05/31/2014 12:30
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	05/30/2014 11:00	05/31/2014 12:30
446084	TRAILER	Bulker	746084	TRACTOR	Tandem - Tractor	05/30/2014 11:00	05/31/2014 12:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Price, Ryan	05/30/2014 11:00	05/31/2014 12:30		
Young, Craig	05/30/2014 11:00	05/31/2014 12:30		
Morris, Theodore	05/30/2014 11:00	05/31/2014 12:30		
Curtner, Jerry	05/30/2014 11:00	05/31/2014 12:30		
Svoboda, Miloslav	05/30/2014 11:00	05/31/2014 12:30		

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	May 30,2014 11:00	Arrive On Location	---	--	--	--	--	0.00
2	May 30,2014 11:10	Tailgate Meeting	---	--	--	--	--	0.00
3	May 30,2014 11:15	Wait On Instructions	---	--	--	--	--	0.00
		Remarks: Rig still running casing						
4	May 31,2014 06:30	Rig In	---	--	--	--	--	0.00
5	May 31,2014 07:40	Safety Meeting	---	--	--	--	--	0.00
		Remarks: Went over Job scope and JSA						
6	May 31,2014 07:50	Sign-off on Safety	---	--	--	--	--	0.00
7	May 31,2014 07:55	N/A	---	--	--	--	--	0.00
		Remarks: mixed 20 bbl of visweep						
8	May 31,2014 08:09	Pump	---	--	--	--	--	0.00
		Remarks: Filled lines for pressure test						
9	May 31,2014 08:13	Pressure Test	---	--	3,500.0	--	--	0.00
10	May 31,2014 08:15	Pump Spacer	Water	4.00	300.0	--	10.00	0.00
11	May 31,2014 08:29	Pump Preflush	Water Based Mud	4.00	350.0	--	20.00	0.00
		Remarks: pumped Visweep						
12	May 31,2014 08:29	Mix Cement	1-1-6 G	5.00	400.0	--	163.00	0.00
13	May 31,2014 09:12	Mix Cement	1-1-0 G	5.00	150.0	--	70.00	0.00
14	May 31,2014 09:28	Drop Plug	---	--	--	--	--	0.00
		Remarks: Shut down and dropped plug						
15	May 31,2014 09:30	Pump Displacement	Water Based Mud	2.50	700.0	--	127.00	0.00
16	May 31,2014 10:58	Bump Plug	---	--	1,200.0	--	--	0.00
17	May 31,2014 11:00	Check Float	---	--	--	--	--	0.00
		Remarks: Floats held and got back 1 bbl						
18	May 31,2014 11:15	Wash	---	--	--	--	--	0.00
19	May 31,2014 11:45	Rig Out	---	--	--	--	--	0.00
20	May 31,2014 12:15	Job Complete	---	--	--	--	--	0.00
21	May 31,2014 12:20	Pre-Departure Meeting	---	--	--	--	--	0.00
22	May 31,2014 12:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 72

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

258136

258138

258137



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Comments To Service Report

Job went absolutely great. We chained up 5 miles from Rig to be prepared for lease road and lease wick paid off because conditions were mudd. Arrived on time and casing was still being run. Sent crew to take nap and prepared for job. 5 hrs later got crew up to run water lines, Rig still not on bottom. Had crew cab up till we could spot trucks. 630 am spotted trucks rigged in. Rig in was 1 hr and crew did great job. Company rep and rig crew were great and very happy with Sanjels Performance.



Client	Whiting Petroleum	Client Rep	Kenny Wilkerson	Supervisor	Ryan Price
Ticket No.	9191320	Well Name	Razor 261-2313A	Unit No.	445052
Location	Sec 26; T10N; R58W	Job Type	Intermediate Casing	Service District	Fort Lupton
Comments				Job Date	05/31/2014

