



**Pumping
Service Report**

9191419

Client Name Whiting Petroleum Corp.	Well Name Razor 26I-2313A	Rig Frontier Drilling 26	Job Date June 06,2014	Call Sheet 1042705
Client Representative Kenny Wilkerson	Surface Well Location Sec 26: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):	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	6,100.000	--	--

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	6,100.0
4.500	11.600		--	--	--	--	--	8,826.9	13,775.0

Drill Pipe

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
4.000	0.000		--	--	--	--	0.000	8,826.910

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 13785

Acids/Blends/Fluids :

Tail: 585 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 154 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 70
+ 8 % of SilFume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 0.45 % of LTR (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend),
+ 0.2 % of AS-3,
+ 1 % of FWCA-H

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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Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449093	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	06/06/2014 06:00	06/06/2014 15:40
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	06/06/2014 06:00	06/06/2014 15:40
446084	TRAILER	Bulker	746084	TRACTOR	Tandem - Tractor	06/06/2014 06:00	06/06/2014 15:40
746508	BODY JOB	Baby Bulker				06/06/2014 06:00	06/06/2014 15:40

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Douglass, Brian	06/06/2014 06:00	06/06/2014 15:40		
Prigmore, Dominic	06/06/2014 06:00	06/06/2014 15:40		
Keeton, Derek	06/06/2014 06:00	06/06/2014 15:40		
Bark, Eric	06/06/2014 06:00	06/06/2014 15:40		
Melgarejo Herrera, Eduardo	06/06/2014 06:00	06/06/2014 15:40		

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	Jun 06,2014 06:00	Arrive On Location		--	--	--	--	0.00
2	Jun 06,2014 06:10	Tailgate Meeting		--	--	--	--	0.00
3	Jun 06,2014 07:00	Rig In		--	--	--	--	0.00
4	Jun 06,2014 08:30	Wait On Instructions		--	--	--	--	0.00
		Remarks: rig still running drill pipe						
5	Jun 06,2014 10:30	Safety Meeting		--	--	--	--	0.00
6	Jun 06,2014 10:40	Sign-off on Safety		--	--	--	--	0.00
7	Jun 06,2014 11:13	Establish Circulation	Water	2.00	400.0	--	2.00	2.00
8	Jun 06,2014 11:17	Pressure Test		--	5,000.0	--	--	2.00
9	Jun 06,2014 11:20	Pump Preflush	Water	4.00	1,200.0	--	30.00	32.00
		Remarks: visweep						
10	Jun 06,2014 11:28	Mix Cement	1-1-0 G	5.00	1,400.0	--	154.00	186.00
11	Jun 06,2014 12:08	Stop		--	--	--	--	186.00
12	Jun 06,2014 12:10	Drop Plug		--	--	--	--	186.00
13	Jun 06,2014 12:12	Pump Displacement	Water	4.00	1,100.0	--	167.50	353.50
		Remarks: with KCL						
14	Jun 06,2014 13:00	Bump Plug		--	--	--	--	353.50
15	Jun 06,2014 13:03	Check Float		--	--	--	--	353.50
		Remarks: float held						
16	Jun 06,2014 13:04	Stop		--	--	--	--	353.50
		Remarks: rig is pulling up						
17	Jun 06,2014 13:10	Pressure Test		--	2,000.0	--	--	353.50
		Remarks: pressure test backside for 15 mins						
18	Jun 06,2014 13:25	Stop		--	--	--	--	353.50
19	Jun 06,2014 13:45	Pump		5.00	800.0	--	134.00	487.50
		Remarks: circulate hole. got 30 bbls of cement back						
20	Jun 06,2014 14:12	Stop		--	--	--	--	487.50
21	Jun 06,2014 14:15	Rig Out		--	--	--	--	487.50
22	Jun 06,2014 15:20	Job Complete		--	--	--	--	487.50
23	Jun 06,2014 15:30	Pre-Departure Meeting		--	--	--	--	487.50
24	Jun 06,2014 15:40	Leave Location		--	--	--	--	487.50

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 30
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

258251

258240

258241

258355