



**Pumping
Service Report**

9193407

Client Name Whiting Petroleum Corp.	Well Name Razor 26I-2315A	Rig Frontier Drilling 26	Job Date June 25,2014	Call Sheet 1043381
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)
6.000	15.000	5,984.000	13,595.000	--	--

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)
7.000	29.000	L-80	7,030.0	8,160.0	222.29	6.184	7.656	0.0	5,984.0
4.500	11.600	L-80	6,350.0	7,780.0	135.92	4.000	5.000	4,850.0	13,595.0

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	28.000	---	--	--	--	--	0.000	4,443.430
4.000	49.000	---	--	--	--	--	0.000	430.400

Products

Stage 1

From Depth (ft): 4850
To Depth (ft): 13595

Acids/Blends/Fluids :

Tail: 585 Sacks of 1-1-0 G, Density = 13.7 lb/gal, Volume Pumped = 154 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 78 , Slurry Temperature(°F) = 70
+ 8 % of SilFume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWCA-H (Preblend),
+ 0.45 % of LTR (Preblend),
+ 0.2 % of AS-3 (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	--	--	--	--	Jun 17, 2014 09:17

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen
Canada • USA • International

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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>
449093	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	06/25/2014 14:00	06/26/2014 01:15
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	06/25/2014 14:00	06/26/2014 01:15
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	06/25/2014 14:00	06/26/2014 01:15

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Douglass, Brian	06/25/2014 14:00	06/26/2014 01:15		
Doran, Benjamin	06/25/2014 14:00	06/26/2014 01:15		
Cheal, Samuel	06/25/2014 14:00	06/26/2014 01:15		
Hall, Austin	06/25/2014 14:00	06/26/2014 01:15		
Paiu, Vladislav	06/25/2014 14:00	06/26/2014 01:15		

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 25,2014 14:00	Arrive On Location		--	--	--	--	0.00
2	Jun 25,2014 14:10	Tailgate Meeting		--	--	--	--	0.00
3	Jun 25,2014 14:20	Rig In		--	--	--	--	0.00
4	Jun 25,2014 15:00	Wait On Instructions		--	--	--	--	0.00
		Remarks: rig still running drill pipe and casing						
5	Jun 25,2014 19:30	Safety Meeting		--	--	--	--	0.00
6	Jun 25,2014 19:45	Sign-off on Safety		--	--	--	--	0.00
7	Jun 25,2014 20:02	Establish Circulation	Water	2.00	300.0	--	2.00	2.00
8	Jun 25,2014 20:04	Pressure Test		--	5,000.0	--	--	2.00
9	Jun 25,2014 20:06	Pump Preflush	Water	4.00	1,000.0	--	30.00	32.00
		Remarks: with gel						
10	Jun 25,2014 20:15	Mix Cement	1-1-0 G	4.00	1,300.0	--	152.00	184.00
11	Jun 25,2014 21:05	Drop Plug		--	--	--	--	184.00
12	Jun 25,2014 21:07	Pump Displacement	Water	3.50	2,000.0	--	164.00	184.00
		Remarks: with kcl						
13	Jun 25,2014 22:04	Bump Plug		--	--	--	--	184.00
14	Jun 25,2014 22:06	Check Float		--	--	--	--	184.00
		Remarks: float held						
15	Jun 25,2014 22:07	Stop		--	--	--	--	184.00
		Remarks: rig is setting packer						
16	Jun 25,2014 22:23	Pressure Test		--	1,500.0	--	--	184.00
		Remarks: back side						
17	Jun 25,2014 22:30	Stop		--	--	--	--	184.00
18	Jun 25,2014 22:50	Reverse Circulate	Water	4.00	1,000.0	--	160.00	184.00
19	Jun 25,2014 23:44	Stop		--	--	--	--	184.00
20	Jun 25,2014 23:50	Rig Out		--	--	--	--	184.00
21	Jun 26,2014 00:50	Job Complete		--	--	--	--	184.00
22	Jun 26,2014 01:00	Pre-Departure Meeting		--	--	--	--	184.00
23	Jun 26,2014 01:15	Leave Location		--	--	--	--	184.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 10

Temperature (°F) : 75

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

258327

46565

Client	WHITTING OIL AND GAS	Client Rep	KENNY WILKERSON	Supervisor	BRIAN DOUGLASS
Ticket No.	9193407	Well Name	RAZOR 261-2315A	Unit No.	745051
Location	SEC.26-T10N-R58W	Job Type	Liner Casing	Service District	FORT LUPTON, CO
Comments	SEE JOB LOG FOR DETAILS			Job Date	06/25/2014

