



**Pumping
Service Report**

9190948

Client Name Whiting Petroleum Corp.	Well Name Fregeau 1	Job Date April 24, 2014	Call Sheet 1041452
Client Representative Bryan Olmstead	Location Sec 9:T10N:R58W	Job Type Abandonment Plugs	Rig BWS 12

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): —

Predicted Bottom Hole Static Temperature (°F): 100.00 @ —

Bottom Hole Circulating Temperature (°F): 90.00 @ —

Bottom Hole Logged Temperature (°F): — @ —

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
7.875	10.000	—	—	—	—

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)
8.625	24.000		—	—	—	—	—	0.0	182.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	8.700		—	—	—	—	0.000	3,935.000

Products

Plug 1

From Depth (ft): 3730

To Depth (ft): 3935

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 65 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 13.3 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 60

+ 0.3 % of CFR,

+ 0.1 % of LTR

Fluid & Cement Data

Expected Cement Top: Depth (ft): 3730

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	—	—	—	—	Apr 03, 2014 21:46



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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	201191	PICKUP	1 Ton	04/24/2014 13:00	04/24/2014 16:50
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	04/24/2014 13:00	04/24/2014 16:50
746506	BODY JOB	Baby Bulker				04/24/2014 13:00	04/24/2014 16:50

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	04/24/2014 13:06	04/24/2014 14:06		
Cox, Brandon	04/24/2014 13:06	04/24/2014 14:06		
Emery, Orval	04/24/2014 13:06	04/24/2014 14:06		
Paui, Comeliu	04/24/2014 13:06	04/24/2014 14:06		
Cheal, Samuel	04/24/2014 13:06	04/24/2014 14:06		

Treatment Reports & Remarks

Treatment Report

<u>Event #</u>	<u>Event Time</u>	<u>Event Description</u>	<u>Fluid Type</u>	<u>Rate</u> (bbl/min)	<u>Tubular Pressure</u> (psi)	<u>Annular Pressure</u> (psi)	<u>Stage Volume</u> (bbl)	<u>Total Volume</u> (bbl)
1	Apr 24, 2014 13:00	Arrive On Location		—	—	—	—	0.00
2	Apr 24, 2014 13:10	Tailgate Meeting		—	—	—	—	0.00
3	Apr 24, 2014 13:20	Rig In		—	—	—	—	0.00
4	Apr 24, 2014 13:40	Wait On Instructions		—	—	—	—	0.00
		Remarks: wireline running in still						
5	Apr 24, 2014 15:10	Safety Meeting		—	—	—	—	0.00
6	Apr 24, 2014 15:20	Sign-off on Safety		—	—	—	—	0.00
7	Apr 24, 2014 15:27	Establish Circulation	Water	1.00	55.0	—	1.00	1.00
		Remarks: fill lines						
8	Apr 24, 2014 15:28	Pressure Test		—	3,000.0	—	—	1.00
9	Apr 24, 2014 15:30	Establish Circulation	Water	2.00	425.0	—	4.00	5.00
10	Apr 24, 2014 15:40	Mix Cement	0-1-0 G	2.00	100.0	—	13.30	18.30
11	Apr 24, 2014 15:48	Pump Displacement	Water	2.00	35.0	—	18.50	36.80
12	Apr 24, 2014 15:58	Stop		—	—	—	—	36.80
13	Apr 24, 2014 16:00	Rig Out		—	—	—	—	36.80
14	Apr 24, 2014 16:30	Job Complete		—	—	—	—	36.80
15	Apr 24, 2014 16:40	Pre-Departure Meeting		—	—	—	—	36.80
16	Apr 24, 2014 16:50	Leave Location		—	—	—	—	36.80

Did Float Hold: Not Applicable

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : —

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

9975



Client	Whiting Petroleum Corp	Client Rep	Jeff	Supervisor	Brian Douglass
Ticket No.	9190948	Well Name	Fregeau 1	Unit No.	745051
Location	Sec.9:T10N:58W	Job Type	Abandonment Plugs	Service District	Ft Lupton, CO
Comments	See job log for details			Job Date	04/24/2014

