



# Pumping Service Report

9206572

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F - 1302B	Rig Unit Drilling Co. 409	Job Date October 02, 2015	Call Sheet 1061257
Client Representative Tyson	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Liner Casing	Lead Supervisor Contreras, Bennie (23469)

## Well Profile

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	100.00 @ --
Bottom Hole Circulating Temperature (°F):	80.00 @ --
Bottom Hole Logged Temperature (°F):	--- @ --

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
6.000	--	4,350.000	14,100.000	--	--

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	P-110	8,510.0	9,520.0	241.65	6.184	7.656	0.0	6,505.0
4.500	11.600	P-110	7,560.0	10,690.0	151.54	4.000	5.000	4,350.0	14,100.0

## Products

Stage 1
From Depth (ft): 4350
To Depth (ft): 14100
Acids/Blends/Fluids :
Tail: 650 Sacks of 1:1:0 Poz Dacotah G, Density = 13.7 lb/gal, Volume Pumped = 171.3 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 74
+ 8 % of Silica Fume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWC-2 (Preblend),
+ 0.35 % of LTR (Preblend),
+ 0.2 % of ASM-3 (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

## Fluid & Cement Data

Expected Cement Top: --					
<b>Wellbore Fluid</b>					
<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	--	8.340	--	--	Jul 07, 2015 14:19



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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>
444002	TRAILER	Iron	201386	PICKUP	1 Ton	10/02/2015 03:15	10/02/2015 10:50
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	10/02/2015 03:15	10/02/2015 10:50
449102	TRAILER	1600 Porta Bulkier				10/02/2015 03:15	10/02/2015 10:50

#### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Contreras, Bennie (23469)	10/02/2015 03:15	10/02/2015 10:50		
Yates, William (29930)	10/02/2015 03:15	10/02/2015 10:50		
Hansen, Ted (29055)	10/02/2015 03:15	10/02/2015 10:50		
Faircloth, Branden (29706)	10/02/2015 03:15	10/02/2015 10:50		
Faircloth, Branden (29706)	10/02/2015 03:15	10/02/2015 10:50		

### 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	Oct 02,2015 03:15	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived.						
2	Oct 02,2015 04:25	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: STEACS						
3	Oct 02,2015 05:45	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete.						
4	Oct 02,2015 05:46	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, Nearest med., 911 caller, Amb. and driver, Location safety equipt., Job scope.						
5	Oct 02,2015 06:16	Pressure Test Start	Water	--	6,000.0	--	--	0.00
		Remarks: 8000 psi pressure test.						
6	Oct 02,2015 06:18	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Test complete.						
7	Oct 02,2015 06:28	Pump	Water	4.00	1,500.0	--	30.00	30.00
		Remarks: 30 BBLs of visweep.						
8	Oct 02,2015 06:35	Mix Cement	1:1:0 Poz Dacotah G	5.70	2,400.0	--	171.30	201.30
		Remarks: Mix and pump 171.3 BBLs of cement @ 13.7 lb/gal..						
9	Oct 02,2015 07:10	Stop		--	--	--	--	201.30
		Remarks: Stop and drop dart after cleaning out lines with 2 BBLs.						
10	Oct 02,2015 07:25	Displace Fluid	Water	4.30	2,200.0	--	168.00	369.30
		Remarks: Displace 168 BBLs to bump plug 1000 psi over.						
11	Oct 02,2015 08:05	Bump Plug		--	2,700.0	--	--	369.30
		Remarks: Bumped plug at 168 BBLs @ 2700 psi.						
12	Oct 02,2015 08:07	Check Float		--	--	--	--	369.30
		Remarks: Checked float and got back 1.5 BBLs of water.						
13	Oct 02,2015 08:17	Pressure Test	Water	--	2,200.0	--	--	369.30
		Remarks: Pressure test casing at 2200 psi for five minutes.						
14	Oct 02,2015 08:25	Forward Circulate	Water	7.00	2,000.0	--	185.00	554.30
		Remarks: Roll the hole clean and got 50 BBLs of cement back and used 185 BBLs of water.						
15	Oct 02,2015 09:45	Rig Out		--	--	--	--	554.30
		Remarks: Rig out.						
16	Oct 02,2015 10:30	Job Complete		--	--	--	--	554.30
		Remarks: Job complete.						
17	Oct 02,2015 10:50	Leave Location		--	--	--	--	554.30
		Remarks: Leave.						

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 50

Temperature (°F) : 78

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes





**Treatment Reports & Remarks**

**Material Transfer Sheet Number**

Material Transfer Sheet Number

65861

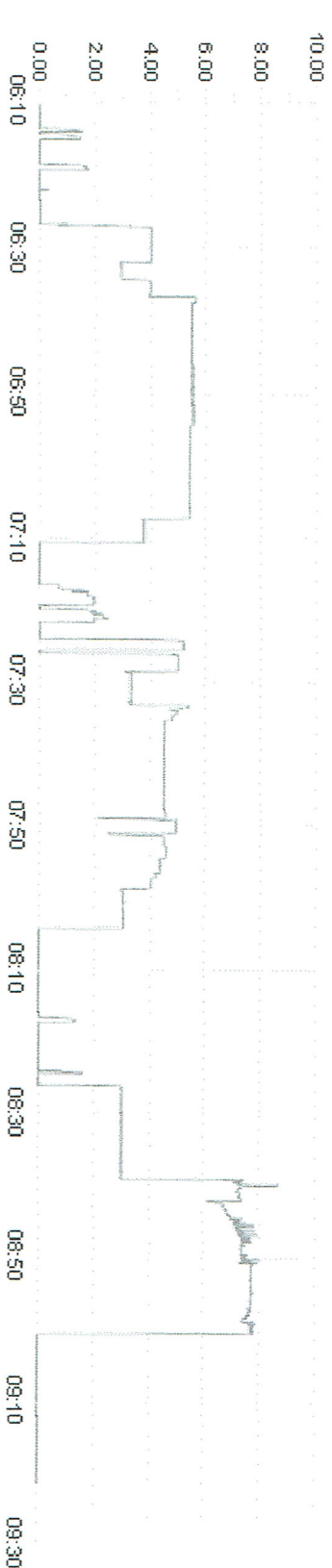
65859

65860

Client	Whiting	Client Rep	Mr. Tyson	Supervisor	Bennie Contreras
Ticket No.	9206572	Well Name	Razor Federal 12F-1302B	Unit No.	745070
Location	Sec 12-T10N-R58W	Job Type	Liner Casing	Service District	Fort Lupton
Comments	650 sks 1-1-0 Poz Dacotah G @ 13.7 lb/gal			Job Date	10/02/2015

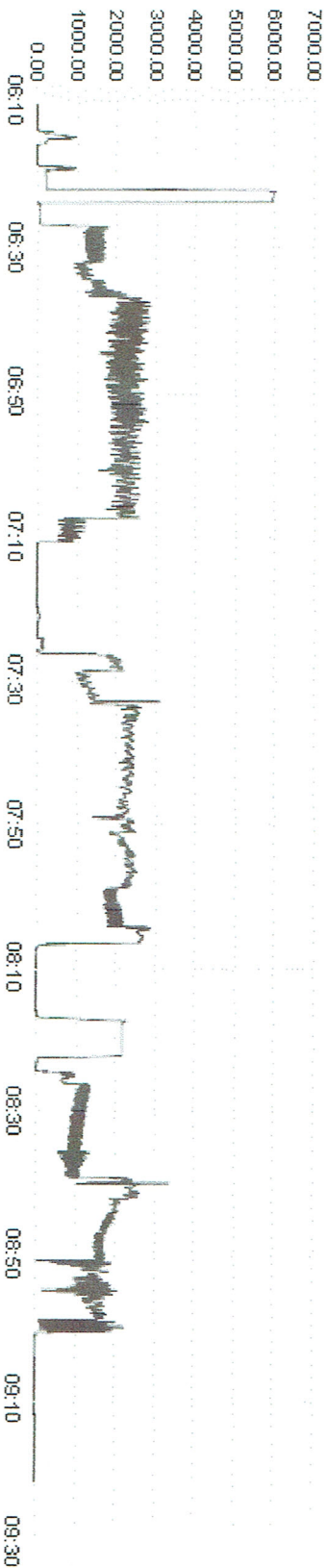
Unit 745070 Rate Total

(bpm)



Unit 745070 Pump Pressure

(psi)



Unit 745070 Density

(lb/gal)

