



## Pumping Service Report

9206094

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F-0108B	Rig Unit Drilling Co. 409	Job Date August 02,2015	Call Sheet 1059592
Client Representative BJ	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Intermediate Casing	Lead Supervisor Johnson, Quintin (23945)

### 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):	--- @ --

### Casing

Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
7.000	32.000	P-110	10,760.0	9,520.0	227.27	6.094	7.656	0.0	6,300.0

### Products

#### Stage 1

From Depth (ft):	0
To Depth (ft):	4700

#### Acids/Blends/Fluids :

Lead 1: 460 Sacks of 1-2-6 PozG, Density = 12.5 lb/gal, Volume Pumped = 154 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80  
+ 6 % of Gel (Preblend),  
+ 0.2 % of CFR (Preblend),  
+ 0.5 % of CFL-4 (Preblend),  
+ 0.15 % of LTR (Preblend),  
+ 0.25 lb/sack of Polyflake (Preblend)

#### Stage 2

From Depth (ft):	4700
To Depth (ft):	6400

#### Acids/Blends/Fluids :

Tail: 235 Sacks of 1-1-2 PozG, Density = 13.5 lb/gal, Volume Pumped = 62.9 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80  
+ 2 % of Gel (Preblend),  
+ 8 % of SilFume (Preblend),  
+ 0.1 % of CFR-5 (Preblend),  
+ 0.7 % of CFL-3 (Preblend),  
+ 0.2 % 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	--	8.340	--	--	Jul 07, 2015 14:19
Water Based Mud	--	10.000	--	--	Jul 11, 2015 17:09



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### Attachment & Tools

#### Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	7.000	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>
201191	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	08/02/2015 12:30	08/02/2015 19:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	08/02/2015 12:30	08/02/2015 19:00

#### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J (25267)	08/02/2015 12:30	08/02/2015 19:00		
Melgarejo Herrera, Eduardo (26606)	08/02/2015 12:30	08/02/2015 19:00		
Leue, David (28684)	08/02/2015 12:30	08/02/2015 19:00		
Betts, Dallas (30257)	08/02/2015 12:30	08/02/2015 19:00		



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### Treatment Reports & Remarks

#### 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	Aug 02,2015 12:30	Arrive On Location		--	--	--	--	0.00
2	Aug 02,2015 13:30	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Aug 02,2015 14:30	Rig in Complete		--	--	--	--	0.00
4	Aug 02,2015 15:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Aug 02,2015 16:00	Pressure Test Start	Water	1.00	3,000.0	--	2.00	2.00
6	Aug 02,2015 16:02	Pressure Test Complete		--	--	--	--	2.00
7	Aug 02,2015 16:05	Pump	Water	5.00	800.0	--	10.00	12.00
8	Aug 02,2015 16:15	Pump	1-2-6 PozG	8.00	800.0	--	154.00	166.00
9	Aug 02,2015 16:32	Pump	1-1-2 PozG	8.00	500.0	--	62.90	228.90
10	Aug 02,2015 16:42	Drop Plug		--	--	--	--	228.90
11	Aug 02,2015 16:45	Displace Fluid	Water	8.00	1,600.0	--	225.44	454.34
12	Aug 02,2015 17:18	Bump Plug		--	2,300.0	--	--	454.34
13	Aug 02,2015 17:20	Check Float		--	--	--	--	454.34
14	Aug 02,2015 17:30	Rig Out		--	--	--	--	454.34
15	Aug 02,2015 18:00	Job Complete		--	--	--	--	454.34
		Remarks: AAR						
16	Aug 02,2015 19:00	Leave Location		--	--	--	--	454.34

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 1

Temperature (°F) : 90

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

#### Material Transfer Sheet Number

Material Transfer Sheet Number

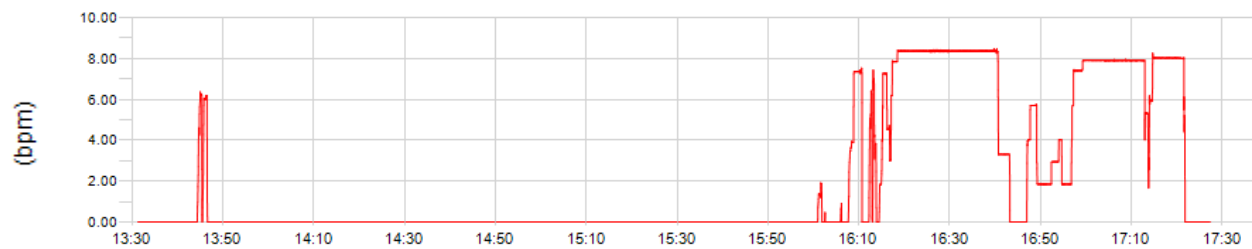
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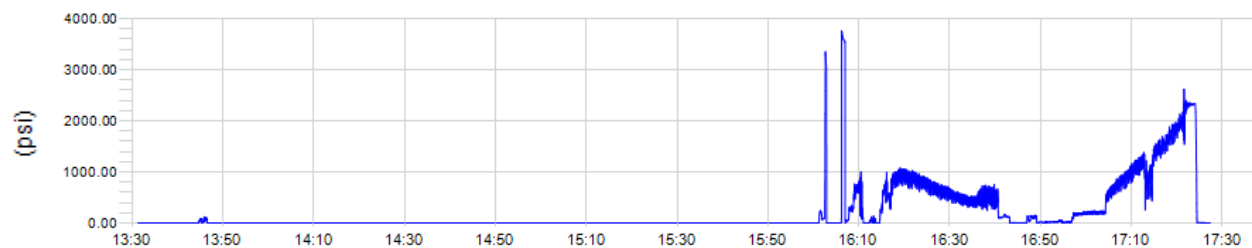


Client	Whiting	Client Rep	Kenny	Supervisor	Andy Hall
Ticket No.	9206094	Well Name	Razor Federal 12F-0108B	Unit No.	745024
Location	SE NE Sec12:T10N:R58W	Job Type	Intermediate Casing	Service District	505 Fort Lupton
Comments	Pumped job according to prog.			Job Date	08/02/2015

Unit 745024 Rate Total



Unit 745024 Pump Pressure



Unit 745024 Density

