



# Cementing Service Report

9206550

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F-0102B	Rig Unit Drilling Co. 409	Job Date October 25, 2015	Call Sheet 1061920
Client Representative Kenny	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Hansen, Kevin (27592)

## 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):	--- @ --

## Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
13.500	30.000	0.000	1,895.000	--	--

## 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)
9.625	36.000	J-55	2,020.0	3,520.0	144.95	8.921	10.625	0.0	1,875.0

## Products

### Stage 1

From Depth (ft):	0
To Depth (ft):	1198
Acids/Blends/Fluids :	
Lead 1:	355 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 155.5 (bbl)

### Stage 2

From Depth (ft):	1198
To Depth (ft):	1875
Acids/Blends/Fluids :	
Tail:	240 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 62.4 (bbl)

### Stage 3

From Depth (ft):	
To Depth (ft):	
Acids/Blends/Fluids :	

## Fluid & Cement Data

Expected Cement Top: Surface

### 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	--	--	--	-- Aug 24, 2015 15:49

## Attachment & Tools

### Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	1,875.000	Third Party
Float Collar	1,830.000	Third Party

### Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
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**Units & Personnel**

<b>Units</b>							
<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>
449095	TRAILER	Utility Trailer	201401	PICKUP	1 Ton	10/25/2015 22:00	10/26/2015 03:00
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem -	10/25/2015 22:00	10/26/2015 03:00
449102	TRAILER	1600 Porta				10/25/2015 22:00	10/26/2015 03:00
<b>Crew and Bonuses</b>							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>			<u>Second Start Shift</u>	<u>Second End Shift</u>	
Hansen, Kevin (27592)	10/25/2015 22:00	10/26/2015 03:00					
Melgarejo Herrera,	10/25/2015 22:00	10/26/2015 03:00					
Ripka, Robert (23825)	10/25/2015 22:00	10/26/2015 03:00					
Peterson, Ryan (28158)	10/25/2015 22:00	10/26/2015 03:00					
Peterson, Ryan (28158)	10/25/2015 22:00	10/26/2015 03:00					

**Treatment Reports & Remarks**

<b>Treatment Report</b>									
<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	Oct 25,2015 22:00	Arrive On Location		--	--	--	--	0.00	
2	Oct 25,2015 22:10	Crew Briefing (Rig in)		--	--	--	--	0.00	
		Remarks: Discussed spotting trucks and filled out JSA							
3	Oct 25,2015 23:00	Rig in Complete		--	--	--	--	0.00	
4	Oct 25,2015 23:30	Crew Briefing (Pre Job)		--	--	--	--	0.00	
		Remarks: Went over upcoming job with rig crew and discussed safety concerns							
5	Oct 26,2015 00:00	Pressure Test Start		2.00	200.0	--	2.00	2.00	
		Remarks: Filled lines for pressure test							
6	Oct 26,2015 00:04	Pressure Test Complete		--	2,500.0	--	--	2.00	
		Remarks: Pressure test good							
7	Oct 26,2015 00:05	Pump Preflush	Water	6.00	300.0	--	10.00	12.00	
8	Oct 26,2015 00:07	Mix Cement	Control Set	6.50	300.0	--	156.00	168.00	
		Remarks: D-12.0, Y-2.46, WR-14.52							
9	Oct 26,2015 00:12	Mix Cement		--	--	--	--	168.00	
		Remarks: Weigh slurry to confirm density							
10	Oct 26,2015 00:24	Job Complete		--	--	--	--	168.00	
11	Oct 26,2015 00:29	Mix Cement	0:1:0 Type	6.50	300.0	--	62.40	62.40	
		Remarks: D-14.2, Y-1.46, WR-7.36							
12	Oct 26,2015 00:50	Drop Plug		--	--	--	--	62.40	
13	Oct 26,2015 00:51	Displace Fluid	Water	7.00	400.0	--	141.50	203.90	
14	Oct 26,2015 01:24	Bump Plug		--	1,000.0	--	--	203.90	
		Remarks: Bumped 500 over							
15	Oct 26,2015 01:28	Check Float		--	--	--	--	203.90	
		Remarks: Floats held 3/4 bbl back							
16	Oct 26,2015 01:40	Wash		--	--	--	--	203.90	
17	Oct 26,2015 02:15	Rig Out		--	--	--	--	203.90	
18	Oct 26,2015 02:45	Pre-Departure Meeting		--	--	--	--	203.90	
		Remarks: Discussed journey management							
19	Oct 26,2015 02:50	Job Complete		--	--	--	--	203.90	
20	Oct 26,2015 03:00	Leave Location		--	--	--	--	203.90	
Did Float Hold:		Yes							
Fluid Returns :		Yes							
Type :		Cement							
Volume (bbl) :		55							
Temperature (°F) :		75							

FDAS Functioning Correctly :   Yes  
Was the Program Followed As Per Design? :       Yes

**Material Transfer Sheet Number**

<u>Material Transfer Sheet Number</u>
63560
63562