



Cementing Service Report

9207978

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F - 0104B	Rig Unit Drilling Co. 409	Job Date August 24,2015	Call Sheet 1060212
Client Representative Tyson	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Liner Casing	Lead Supervisor Hall, Andrew J (25267)

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)
6.000	15.000	0.000	13,600.000	--	--

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)
4.500	11.600	J-55	4,960.0	5,350.0	129.00	4.000	5.000	5,300.0	13,600.0

Drill Pipe

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
4.000	11.850	E	8,410.000	62.210	3.476	5.250	0.000	5,300.000

Products

Stage 1

From Depth (ft): 5300

To Depth (ft): 13600

Acids/Blends/Fluids :

Tail: 560 Sacks of 1:1:0 Poz Dacotah G, Density = 13.7 lb/gal, Volume Pumped = 147.61 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70

+ 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)

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



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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	201009	PICKUP	1 Ton	08/24/2015 01:00	08/24/2015 10:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	08/24/2015 01:00	08/24/2015 10:00
449102	TRAILER	Bulker				08/24/2015 01:00	08/24/2015 10:00

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)	08/24/2015 01:00	08/24/2015 10:00		
Faircloth, Branden (29706)	08/24/2015 01:00	08/24/2015 10:00		
Pigg, Martin (28301)	08/24/2015 01:00	08/24/2015 10:00		
Devine, Richard (29733)	08/24/2015 01:00	08/24/2015 10:00		
Faircloth, Branden (29706)	08/24/2015 01:00	08/24/2015 10:00		



Treatment Reports & Remarks									
Treatment Report									
Event #	Event Time	Event Description	Fluid Type	Rate	Tubular Pressure	Annular Pressure	Stage Volume	Total Volume	
				(bbl/min)	(psi)	(psi)	(bbl)	(bbl)	
1	Aug 24,2015 01:00	Arrive On Location		--	--	--	--	0.00	
2	Aug 24,2015 01:15	Crew Briefing (Rig in)		--	--	--	--	0.00	
3	Aug 24,2015 02:15	Rig in Complete		--	--	--	--	0.00	
4	Aug 24,2015 04:00	Crew Briefing (Pre Job)		--	--	--	--	0.00	
5	Aug 24,2015 04:30	Stop		--	--	--	--	0.00	
	Remarks: Wait on rig crew to finnish pumping the balls down.								
6	Aug 24,2015 06:15	Pressure Test Start	Water	1.00	5,000.0	--	3.00	3.00	
7	Aug 24,2015 06:20	Pressure Test Complete		--	--	--	--	3.00	
8	Aug 24,2015 06:21	Pump Preflush	Water	4.00	1,500.0	--	30.00	33.00	
	Remarks: WG-1I								
9	Aug 24,2015 06:30	Pump Spacer	Water	5.00	1,500.0	--	10.00	43.00	
10	Aug 24,2015 06:34	Pump	1:1:0 Poz Dacotah G	5.00	1,800.0	--	147.60	190.60	
11	Aug 24,2015 07:05	Wash	Water	--	--	--	--	190.60	
	Remarks: Wash lines								
12	Aug 24,2015 07:15	Drop Plug		--	--	--	--	190.60	
13	Aug 24,2015 07:18	Displace Fluid	Water	5.00	1,500.0	--	158.00	348.60	
14	Aug 24,2015 07:57	Bump Plug		--	2,500.0	--	--	348.60	
15	Aug 24,2015 08:16	Hold Back Pressure	Water	1.00	2,000.0	--	5.00	353.60	
16	Aug 24,2015 08:30	Displace Fluid	Water	6.00	1,200.0	--	160.00	513.60	
	Remarks: Roll the 7"								
17	Aug 24,2015 09:15	Rig Out		--	--	--	--	513.60	
18	Aug 24,2015 10:00	Job Complete		--	--	--	--	513.60	
	Remarks: AAR								
19	Aug 24,2015 10:30	Leave Location		--	--	--	--	513.60	
Did Float Hold:		Yes							
Fluid Returns :		Yes							
Type :		Cement							
Volume (bbl) :		13							
Temperature (°F) :		90							
FDAS Functioning Correctly :		Yes							
Was the Program Followed As Per Design? :		Yes							
Material Transfer Sheet Number									
Material Transfer Sheet Number									
65530									
65531									



Client	Whiting Petroleum	Client Rep	Tyson	Supervisor	Andy Hall
Ticket No.	9207978	Well Name	Razor Federal 12F-0104B	Unit No.	445052
Location	SE NE Sec12:T10N:R58W	Job Type	Liner Casing	Service District	505 Fort lupton
Comments	Pump job according to the prog.			Job Date	08/24/2015

