



Cementing Service Report

9206148

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F-0103A	Rig Unit Drilling Co. 409	Job Date August 25, 2015	Call Sheet 1060251
Client Representative Kenny	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Douglass, Brian (23898)

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	1,893.000	--	--

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	144.72	8.921	10.625	0.0	1,872.0

Products

Stage 1

From Depth (ft): 1370

To Depth (ft): 0

Acids/Blends/Fluids :

Lead 1: 355 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 155.5 (bbl)
Water Temperature(°F) = 56 , Bulk Temperature(°F) = 78 , Slurry Temperature(°F) = 78
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 2

From Depth (ft): 1893

To Depth (ft): 1370

Acids/Blends/Fluids :

Tail: 240 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 62.5 (bbl)
Water Temperature(°F) = 56 , Bulk Temperature(°F) = 78 , Slurry Temperature(°F) = 82
+ 2 % of CaCl2 (Preblend),
+ 0.25 lb/sack of LCL-7 (Preblend)

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



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Attachment & Tools

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	Client

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>
449087	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	08/25/2015 03:30	08/25/2015 10:30
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	08/25/2015 03:30	08/25/2015 10:30
449102	TRAILER	Bulker				08/25/2015 03:30	08/25/2015 10:30

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 (23898)	08/25/2015 03:30	08/25/2015 10:30		
Martinez, Fernando (28421)	08/25/2015 03:30	08/25/2015 10:30		
Prigmore, Dominic (27161)	08/25/2015 03:30	08/25/2015 10:30		
Betts, Dallas (30257)	08/25/2015 03:30	08/25/2015 10:30		
Martinez, Fernando (28421)	08/25/2015 03:30	08/25/2015 10:30		



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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 25,2015 03:30	Arrive On Location		--	--	--	--	0.00
2	Aug 25,2015 03:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Aug 25,2015 07:00	Rig in Complete		--	--	--	--	0.00
4	Aug 25,2015 07:15	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Aug 25,2015 07:35	Pressure Test Start		--	2,500.0	--	--	0.00
6	Aug 25,2015 07:38	Pressure Test Complete		--	--	--	--	0.00
7	Aug 25,2015 07:40	Pump Preflush	Water	4.00	400.0	--	20.00	0.00
8	Aug 25,2015 07:45	Pump	Control Set C	6.00	300.0	--	155.50	0.00
9	Aug 25,2015 08:15	Pump	0:1:0 Type III	6.00	125.0	--	62.50	0.00
10	Aug 25,2015 08:30	Drop Plug		--	--	--	--	0.00
11	Aug 25,2015 08:32	Displace Fluid	Water Based Mud	7.00	800.0	--	141.00	0.00
12	Aug 25,2015 09:00	Bump Plug		--	1,300.0	--	--	0.00
13	Aug 25,2015 09:02	Check Float		--	--	--	--	0.00
		Remarks: float held						
14	Aug 25,2015 09:03	Pump		--	1,500.0	--	--	0.00
		Remarks: casing test. 1500 psi for 15 mins						
15	Aug 25,2015 09:20	Rig Out		--	--	--	--	0.00
16	Aug 25,2015 10:00	Job Complete		--	--	--	--	0.00
17	Aug 25,2015 10:25	Pre-Departure Meeting		--	--	--	--	0.00
18	Aug 25,2015 10:30	Leave Location		--	--	--	--	0.00
Did Float Hold:		Yes						
Fluid Returns :		Yes						
Type :		Cement						
Volume (bbl) :		80						
Temperature (°F) :		78						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						
Material Transfer Sheet Number								
Material Transfer Sheet Number								
65536								
65538								



Client	WHITING OIL AND GAS	Client Rep	MR. KENNY WILKERSON	Supervisor	BRIAN DOUGLASS
Ticket No.	9206148	Well Name	RAZOR FEDERAL 12F-0103A	Unit No.	445046
Location	SE NE SEC. 12-T10N-R58W	Job Type	Surface Casing	Service District	FORT LUTON, CO
Comments	SEE JOB LOG FOR DETAILS			Job Date	08/25/2015

