



9204372

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F-1307A	Rig Unit Drilling Co. 409	Job Date July 21, 2015	Call Sheet 1059318
Client Representative BJ	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Intermediate Casing	Lead Supervisor Lopez, Armando (29064)

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)
8.750	--	1,876.000	6,300.000	--	--

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)
7.000	32.000	L-80	8,600.0	9,060.0	226.30	6.094	7.656	0.0	6,273.0
9.625	36.000	K-55	2,020.0	3,520.0	145.03	8.921	10.625	0.0	1,876.0

Products**Stage 1**

From Depth (ft): 0
To Depth (ft): 3900

Acids/Blends/Fluids :

Lead 1: 460 Sacks of 1-2-6 PozG, Density = 12.5 lb/gal, Volume Pumped = 160 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 78
+ 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): 3900
To Depth (ft): 6273

Acids/Blends/Fluids :

Tail: 235 Sacks of 1-1-2 PozG, Density = 13.5 lb/gal, Volume Pumped = 70 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 78
+ 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: 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	--	10.000	--	--	Jul 11, 2015 17:09

**Attachment & Tools****Down Hole Tools**

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	6,273.000	Third Party
Guide/Float Shoe	6,230.000	Third Party

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				07/21/2015 14:00	07/22/2015 05:45
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	07/21/2015 14:00	07/22/2015 05:45

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Lopez, Armando (29064)	07/21/2015 14:00	07/22/2015 05:45		
Lindsay, Kevin (27589)	07/21/2015 14:00	07/22/2015 05:45		
Ripka, Robert (23825)	07/21/2015 14:00	07/22/2015 05:45		
Barden, Sean (27711)	07/21/2015 14:00	07/22/2015 05:45		
Spirek, Matthew (26921)	07/21/2015 14:00	07/22/2015 05:45		

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	Jul 21,2015 14:00	Arrive On Location		--	--	--	--	0.00
	Remarks: Company man requested cement crew on location at 1500 07-21-2015							
2	Jul 21,2015 14:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jul 21,2015 15:30	Rig in Complete		--	--	--	--	0.00
4	Jul 22,2015 01:40	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jul 22,2015 02:13	Start - Fluid	Water	2.00	--	--	2.00	2.00
	Remarks: Fill lines							
6	Jul 22,2015 02:15	Pressure Test Start		--	4,000.0	--	--	0.00
7	Jul 22,2015 02:16	Pressure Test Complete		--	--	--	--	0.00
8	Jul 22,2015 02:17	Pump Spacer	Water	4.00	400.0	--	20.00	22.00
	Remarks: Fresh water only company man did not want to use WG1L or Barite							
9	Jul 22,2015 02:27	Mix Cement	1-2-6 PozG	7.00	900.0	--	160.00	182.00
	Remarks: Pumped 460 sacks Density 12.5 Yield 1.89 Water 10.14							
10	Jul 22,2015 02:52	Mix Cement	1-1-2 PozG	6.00	500.0	--	70.00	252.00
	Remarks: Pumped 235 sacks Density 13.5 Yield 1.52 Water 7.12							
11	Jul 22,2015 03:14	Drop Plug		--	--	--	--	252.00
	Remarks: Sanjel plug							
12	Jul 22,2015 03:14	Displace Fluid		4.00	100.0	--	225.00	477.00
	Remarks: Mud. Displacement reach cmt at 85 bbls gone pressure 100pis to 330 psi							
13	Jul 22,2015 04:19	Bump Plug		--	--	--	--	477.00
	Remarks: Pressure before plug landed was 1000 psi landed plug with 1580 pai. Held for 5 min for casing test							
14	Jul 22,2015 04:25	Check Float		--	--	--	--	477.00
	Remarks: Got 1 bbl back							
15	Jul 22,2015 04:30	Stop		--	--	--	--	0.00
	Remarks: Got 50 bbls 148 sacks of cement to surface							
16	Jul 22,2015 04:35	Wash		--	--	--	--	0.00
17	Jul 22,2015 04:55	Rig Out		--	--	--	--	0.00
18	Jul 22,2015 05:30	Job Complete		--	--	--	--	0.00
19	Jul 22,2015 05:35	Pre-Departure Meeting		--	--	--	--	0.00
20	Jul 22,2015 05:45	Leave Location		--	--	--	--	0.00
Did Float Hold:		Yes						
Fluid Returns :		Yes						
Type :		Cement						
Volume (bbl) :		50						
Temperature (°F) :		80						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						
Material Transfer Sheet Number								
Material Transfer Sheet Number								
65227								
65229								