



9206137

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F-1308B	Rig Unit Drilling Co. 409	Job Date July 12, 2015	Call Sheet 1059110
Client Representative BJ	Surface Well Location SE NW Sec 12:T10N:R58W	Down Hole Well Location	Job Type Intermediate 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)
8.750	35.000	0.000	6,368.000	--	--

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)
7.000	32.000	L-80	8,600.0	9,060.0	228.89	6.094	7.656	0.0	6,345.0

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) = 55 , Bulk Temperature(°F) = 80 , Slurry Temperature(°F) = 75
+ 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):	6368

Acids/Blends/Fluids :

Tail: 220 Sacks of 1-1-2 PozG, Density = 13.5 lb/gal, Volume Pumped = 59.5 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 80 , 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****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>
449095	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	07/12/2015 17:00	07/13/2015 01:20
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	07/12/2015 17:00	07/13/2015 01:20
379015	TRAILER	Utility Trailer	201273	PICKUP	3/4 Ton	07/12/2015 17:00	07/13/2015 01:20
449102	TRAILER	Bulker				07/12/2015 17:00	07/13/2015 01:20

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)	07/12/2015 17:00	07/13/2015 01:20		
Leue, David (28684)	07/12/2015 17:00	07/13/2015 01:20		
Faircloth, Branden (29706)	07/12/2015 17:00	07/13/2015 01:20		
Hall, Austin (28887)	07/12/2015 17:00	07/13/2015 01:20		
Pyfer, Kevin (29802)	07/12/2015 17:00	07/13/2015 01:20		
Pyfer, Kevin (29802)	07/12/2015 17:00	07/13/2015 01:20		

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 12,2015 17:00	Arrive On Location		--	--	--	--	0.00
2	Jul 12,2015 17:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jul 12,2015 18:00	Rig in Complete		--	--	--	--	0.00
4	Jul 12,2015 21:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jul 12,2015 22:00	Pressure Test Start		--	3,000.0	--	--	0.00
6	Jul 12,2015 22:02	Pressure Test Complete		--	--	--	--	0.00
7	Jul 13,2015 22:04	Pump Preflush	Water	4.00	250.0	--	3.00	0.00
8	Jul 13,2015 22:07	Pump Preflush	Water	5.00	300.0	--	20.00	0.00
		Remarks: with gel						
9	Jul 13,2015 22:17	Pump	1-2-6 PozG	6.00	600.0	--	154.00	0.00
		Remarks: WR: 10.14 Yield: 1.89 Density: 12.5						
10	Jul 13,2015 22:42	Pump	1-1-2 PozG	6.00	600.0	--	59.50	0.00
		Remarks: WR: 7.12 Yield: 1.52 Density: 13.5						
11	Jul 13,2015 22:53	Stop		--	--	--	--	0.00
12	Jul 13,2015 22:55	Drop Plug		--	--	--	--	0.00
13	Jul 13,2015 22:57	Displace Fluid	Water Based Mud	5.00	1,000.0	--	227.50	0.00
14	Jul 13,2015 23:52	Bump Plug		--	--	--	--	0.00
15	Jul 13,2015 23:54	Check Float		--	--	--	--	0.00
		Remarks: float held						
16	Jul 13,2015 23:55	Pump		--	1,500.0	--	--	0.00
		Remarks: casing test for 30 mins						
17	Jul 13,2015 00:30	Rig Out		--	--	--	--	0.00
18	Jul 13,2015 01:10	Job Complete		--	--	--	--	0.00
19	Jul 13,2015 01:15	Pre-Departure Meeting		--	--	--	--	0.00
20	Jul 13,2015 01:20	Leave Location		--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 74

Temperature (°F) : 90

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

65119

65121