



9209205

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F - 1305A	Rig Unit Drilling Co. 409	Job Date November 15, 2015	Call Sheet 1062502
Client Representative BJ	Surface Well Location SE NW Sec 12:T10N:R58W	Down Hole Well Location	Job Type Intermediate Casing	Lead Supervisor Doran, Benjamin (27933)

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	--	1,840.000	6,237.000	--	--

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)
9.625	36.000		--	--	--	--	--	0.0	1,840.0
7.000	32.000		--	--	--	--	--	0.0	6,217.0

Products**Stage 1**

From Depth (ft): 0
To Depth (ft): 4700
Acids/Blends/Fluids :
Lead 1: 470 Sacks of 1-2-6 PozG, Density = 12.5 lb/gal, Volume Pumped = 158.2 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70
+ 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): 6237
Acids/Blends/Fluids :
Tail: 235 Sacks of 1-1-2 PozG, Density = 13.5 lb/gal, Volume Pumped = 63.6 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70
+ 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					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
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/Float Shoe	6,217.000	Third Party
Float Collar	6,174.000	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>
449086	TRAILER	Utility Trailer	201168	PICKUP	1 Ton	11/15/2015 12:30	11/15/2015 18:15
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	11/15/2015 12:30	11/15/2015 18:15
449102	TRAILER	1600 Porta Bulker				11/15/2015 12:30	11/15/2015 18:15

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Doran, Benjamin (27933)	11/15/2015 12:30	11/15/2015 18:15		
Contreras, Bennie (23469)	11/15/2015 12:30	11/15/2015 18:15		
Hansen, Ted (29055)	11/15/2015 12:30	11/15/2015 18:15		
Leue, David (28684)	11/15/2015 12:30	11/15/2015 18:15		
Leue, David (28684)	11/15/2015 12:30	11/15/2015 18:15		

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	Nov 15,2015 12:30	Arrive On Location		--	--	--	--	0.00	
2	Nov 15,2015 12:35	Crew Briefing (Rig in)		--	--	--	--	0.00	
3	Nov 15,2015 14:55	Rig in Complete		--	--	--	--	0.00	
4	Nov 15,2015 15:00	Crew Briefing (Pre Job)		--	--	--	--	0.00	
5	Nov 15,2015 15:34	Pressure Test Start		2.00	200.0	--	3.00	0.00	
		Remarks: Fill lines							
6	Nov 15,2015 15:36	Pressure Test Complete		--	4,000.0	--	--	0.00	
		Remarks: All lines held pressure							
7	Nov 15,2015 15:37	Pump Preflush	Water	5.80	600.0	--	10.00	0.00	
8	Nov 15,2015 15:44	Mix Cement	1-2-6 PozG	7.25	700.0	--	158.20	0.00	
		Remarks: Mix/Pump 470 Sacks @ 12.5 PPG							
9	Nov 15,2015 16:08	Mix Cement	1-1-2 PozG	6.00	600.0	--	63.60	0.00	
		Remarks: Mix/Pump 235 Sacks@ 13.5 PPG							
10	Nov 15,2015 16:21	Drop Plug		--	--	--	--	0.00	
11	Nov 15,2015 16:26	Displace Fluid	Water Based Mud	8.00	1,000.0	--	222.80	0.00	
12	Nov 15,2015 17:03	Bump Plug		--	2,100.0	--	--	0.00	
13	Nov 15,2015 17:04	Check Float		--	--	--	--	0.00	
		Remarks: 1.5 Back							
14	Nov 15,2015 17:05	Pressure Test		--	1,600.0	--	--	0.00	
		Remarks: 15 Minute Casing test							
15	Nov 15,2015 17:30	Rig Out		--	--	--	--	0.00	
16	Nov 15,2015 17:55	Job Complete		--	--	--	--	0.00	
17	Nov 15,2015 18:15	Leave Location		--	--	--	--	0.00	
Did Float Hold: Yes Fluid Returns : Yes Type : Cement Volume (bbl) : 34 Temperature (°F) : 70 FDAS Functioning Correctly : Yes Was the Program Followed As Per Design? : Yes									
Material Transfer Sheet Number									
Material Transfer Sheet Number									
63794									
63795									
63796									