

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 12F - 0102B	Rig Unit Drilling Co. 409	Job Date November 01,2015	Call Sheet 1062050
Client Representative Tyson	Surface Well Location SE NW Sec 12:T10N:R58W	Down Hole Well Location	Job Type Liner 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)
6.000	30.000	6,563.000	13,736.000	--	--

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)
4.500	11.600	P-110	7,560.0	10,690.0	127.21	4.000	5.000	5,546.0	13,731.0
7.000	26.000	K-55	4,330.0	4,980.0	251.11	6.276	7.656	0.0	6,563.0

Drill Pipe

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
4.000	0.000		--	--	2.562	--	0.000	4,693.000
4.000	0.000		--	--	2.250	--	4,693.000	5,458.000
4.000	0.000		--	--	3.340	--	5,458.000	5,551.000

Products

Stage 1

From Depth (ft): 5546

To Depth (ft): 13736

Acids/Blends/Fluids :

Tail: 630 Sacks of 1:1:0 Poz Dacotah G, Density = 13.7 lb/gal, Volume Pumped = 170 (bbl)

Water Temperature(°F) = 70 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80

+ 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: Depth (ft): 5546

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.340	--	--	Jul 07, 2015 14:19



9209004

Attachment & Tools**Down Hole Tools**

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	13,731.000	Third Party
Guide/Float Shoe	13,685.000	Third Party
Liner Hanger	6,563.000	Third Party

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	11/01/2015 10:50	11/01/2015 22:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	11/01/2015 10:50	11/01/2015 22:30
449102	TRAILER	1600 Porta Bulker				11/01/2015 10:50	11/01/2015 22:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Lopez, Armando (29064)	11/01/2015 10:50	11/01/2015 22:30		
Hansen, Ted (29055)	11/01/2015 10:50	11/01/2015 22:30		
Hilt, Brandon (30128)	11/01/2015 10:50	11/01/2015 22:30		
Wilson, Johnny (30052)	11/01/2015 10:50	11/01/2015 22:30		

Treatment Reports & Remarks

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 01,2015 10:50	Arrive On Location		--	--	--	--	0.00
2	Nov 01,2015 11:00	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Nov 01,2015 12:00	Rig in Complete		--	--	--	--	0.00
4	Nov 01,2015 17:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Nov 01,2015 18:50	Start - Fluid	Water	2.00	1,000.0	--	2.00	2.00
		Remarks: Fill lines						
6	Nov 01,2015 18:54	Pressure Test Start		--	5,000.0	--	--	0.00
7	Nov 01,2015 18:55	Pressure Test Complete		--	--	--	--	0.00
8	Nov 01,2015 18:59	Pump Spacer	Water	5.00	2,000.0	--	20.00	22.00
9	Nov 01,2015 19:06	Mix Cement	1:1:0 Poz Dacotah G	5.00	1,600.0	--	170.00	192.00
		Remarks: Pumped 630 sacks Density 13.7 Yield 1.48 Water 6.74						
10	Nov 01,2015 19:55	Drop Plug		--	--	--	--	192.00
		Remarks: 3rd party plug						
11	Nov 01,2015 19:58	Displace Fluid	Water	5.00	150.0	--	161.00	353.00
		Remarks: Dart through disk at 35 bbls gone 2174 psi. Continue to pump at 5 bbls 2470 psi						
12	Nov 01,2015 20:37	Bump Plug		--	--	--	--	353.00
		Remarks: Pressure before plug landed was 2500 psi landed plug with 3050 psi						
13	Nov 01,2015 20:39	Check Float		--	--	--	--	353.00
		Remarks: Got 2 bbls back						
14	Nov 01,2015 20:43	Set Packer		--	--	--	--	353.00
15	Nov 01,2015 20:46	Pressure Test		--	2,000.0	--	--	353.00
		Remarks: Pressure tested packet for 2 min						
16	Nov 01,2015 20:51	Pump		--	2,200.0	--	140.00	493.00
		Remarks: Roll hole						
17	Nov 01,2015 21:30	Stop		--	--	--	--	0.00
		Remarks: Got 48 bbls 182 sacks of cement back to surface						
18	Nov 01,2015 21:35	Wash		--	--	--	--	0.00
19	Nov 01,2015 22:00	Rig Out		--	--	--	--	0.00
20	Nov 01,2015 22:20	Job Complete		--	--	--	--	0.00
21	Nov 01,2015 22:25	Pre-Departure Meeting		--	--	--	--	0.00
22	Nov 01,2015 22:30	Leave Location		--	--	--	--	0.00
Did Float Hold:		Yes						
Fluid Returns :		Yes						
Type :		Cement						
Volume (bbl) :		48						
Temperature (°F) :		80						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						



Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

63663

63640

63639