



Pumping Service Report

9200845

Client Name Whiting Petroleum Corp.	Well Name Razor 33O - 2811	Rig Frontier 9	Job Date December 13,2014	Call Sheet 1052052
Client Representative Trever	Surface Well Location SW SE Sec 33:T10N:R68W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Maguire, Matthew (26325)

Well Profile

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

Open Hole

<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>
13.500	25.000	0.000	1,600.000	--	--

Casing

<u>Size</u> (in)	<u>Weight</u> (lb/ft)	<u>Grade</u>	<u>Collapse Pressure</u> (psi)	<u>Internal Yield Pressure</u> (psi)	<u>Capacity</u> (bbl)	<u>I.D.</u> (in)	<u>O.D.</u> (in)	<u>Depth From</u> (ft)	<u>Depth To</u> (ft)
9.625	36.000	J-55	2,020.0	3,520.0	116.41	8.921	10.625	0.0	1,505.8

Products

Stage 1
From Depth (ft): 0
To Depth (ft): 1505.8
Acids/Blends/Fluids :
Tail: 680 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 178 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 0.25 lb/sack of Polyflake (Preblend),
+ 1 % of CaCl2 (Preblend)
Extra Cement: 100 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 26 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

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	--	8.400	--	--	Jul 14, 2014 20:27
Water Based Mud	--	--	--	--	Oct 09, 2014 19:06

Attachment & Tools

Down Hole Tools		
<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	--	Third Party
Float Collar	--	Third Party
Tubular Plugs		
<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	Client

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Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201009	PICKUP	1 Ton				12/13/2014 21:00	12/14/2014 08:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	12/13/2014 21:00	12/14/2014 08:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	12/13/2014 21:00	12/14/2014 08:30
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Maguire, Matthew (26325)	12/13/2014 21:00		12/14/2014 08:30				
Houghton, Guy (29709)	12/13/2014 21:00		12/14/2014 08:30				
Doran, Benjamin (27933)	12/13/2014 21:00		12/14/2014 08:30				
Teegerstrom, Ty (27623)	12/13/2014 21:00		12/14/2014 08:30				
Decenick, Scott (30083)	12/13/2014 21:00		12/14/2014 08:30				
Treatment Reports & Remarks							



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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	Dec 13,2014 20:30	Arrive On Location		--	--	--	--	0.00
2	Dec 13,2014 20:40	Tailgate Meeting		--	--	--	--	0.00
		Remarks: Filled out JSA.						
3	Dec 13,2014 20:40	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Filled out JSA.						
4	Dec 13,2014 20:59	Rig in (Pre-job)		--	--	--	--	0.00
5	Dec 13,2014 21:00	Rig in Complete		--	--	--	--	0.00
6	Dec 14,2014 05:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
7	Dec 14,2014 05:34	Pressure Test Start		--	3,000.0	--	--	0.00
8	Dec 14,2014 05:35	Pressure Test Complete		--	3,000.0	--	--	0.00
		Remarks: All lines held pressure.						
9	Dec 14,2014 05:36	Pump Preflush	Water	7.00	250.0	--	20.00	20.00
		Remarks: With indicator dye.						
10	Dec 14,2014 05:40	Mix Cement	0:1:0 Type III	7.00	480.0	--	178.00	198.00
		Remarks: WR=7.36, Y=1.47, D=14.2, Sk Wt=95.19, 119.2 bbls mix water.						
11	Dec 14,2014 06:08	Stop		--	--	--	--	198.00
12	Dec 14,2014 06:09	Drop Plug		--	--	--	--	198.00
13	Dec 14,2014 06:15	Displace Fluid	Water Based Mud	6.50	1,269.0	--	116.40	314.40
14	Dec 14,2014 06:38	Bump Plug		--	1,269.0	--	--	314.40
		Remarks: Bumped @ 500psi over.						
15	Dec 14,2014 06:40	Check Float		--	--	--	--	314.40
		Remarks: Float held.						
16	Dec 14,2014 06:41	Stop		--	--	--	--	314.40
17	Dec 14,2014 07:00	Wash	Water	1.50	100.0	--	20.00	314.40
18	Dec 14,2014 07:30	Rig Out		--	--	--	--	314.40
19	Dec 14,2014 08:15	Job Complete		--	--	--	--	314.40
20	Dec 14,2014 08:00	Pre-Departure Meeting		--	--	--	--	314.40
		Remarks: Revisit JSA.						
21	Dec 14,2014 08:30	Leave Location		--	--	--	--	314.40
		Remarks: Revisit JSA.						

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 32

Temperature (°F) : 55

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

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Treatment Reports & Remarks	
Material Transfer Sheet Number	
<u>Material Transfer Sheet Number</u>	
54396	
54397	
54398	



Client	Whiting Petroleum Corp.		Client Rep	Mr. Preston Jarvis	Supervisor	Matthew Maguire
Ticket No.	9200845	Well Name	Razor 33O-2811	Unit No.		
Location	SW SE Sec 33:T10N:R68W	Job Type	Surface Casing	Service District		
Comments	pump 20 BBL fresh h20 with dye indicator, Mix/Pump 680 sacks(178BBL) @14.2 PPG, Stop/Drop plug, Displace 116.4 BBL, Density=14.2, Yield=1.47, Water Req=7.36, Sack Weight= 95.19			Job Date		

