



**Pumping
Service Report**

9200652

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2211A	Rig Frontier 26	Job Date October 29,2014	Call Sheet 1049608
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	

Well Profile

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

Open Hole						
Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)	
13.500	25.000	0.000	1,619.000	--	--	

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)
9.625	36.000	J-55	2,020.0	3,520.0	125.16	8.921	10.625	0.0	1,619.0

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 1619
Acids/Blends/Fluids :
Tail: 680 Sacks of 1-1-0 G, Density = 14.2 lb/gal, Volume Pumped = 178 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80
+ 1 % of CaCl₂ (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: --					
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 09, 2014 18:51

Attachment & Tools

Down Hole Tools		
Tool Type	Depth (ft)	Supplier
Guide Shoe	1,598.200	Sanjel
Float Collar	1,556.800	Sanjel
Tubular Plugs		
Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Sanjel



**Pumping
Service Report**

9200652

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449095	TRAILER	Utility Trailer	201195	PICKUP	3/4 Ton	10/29/2014 14:00	10/30/2014 06:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	10/29/2014 14:00	10/30/2014 06:00
200910	PICKUP	1/2 Ton	200910			10/29/2014 14:00	10/30/2014 06:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hall, Andrew J	10/29/2014 14:00	10/30/2014 06:00		
Doran, Benjamin	10/29/2014 14:00	10/30/2014 06:00		
Pigg, Martin	10/29/2014 14:00	10/30/2014 06:00		
Joyner, Barlen	10/29/2014 14:00	10/30/2014 06:00		

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	Oct 29,2014 13:00	Arrive On Location	---	--	--	--	--	0.00
		Remarks: 10 Houre out on location before job.						
2	Oct 30,2014 00:00	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 30,2014 00:30	STEACS Briefing	---	--	--	--	--	0.00
4	Oct 30,2014 01:30	Rig In	---	--	--	--	--	0.00
5	Oct 30,2014 02:00	Safety Meeting	---	--	--	--	--	0.00
6	Oct 30,2014 02:30	Sign-off on Safety	---	--	--	--	--	0.00
7	Oct 30,2014 02:45	Pressure Test	Water	2.00	3,000.0	--	5.00	5.00
8	Oct 30,2014 03:00	Pump	Water	6.00	300.0	--	20.00	25.00
9	Oct 30,2014 03:05	Pump	0:1:0 Type III	8.00	300.0	--	178.00	203.00
10	Oct 30,2014 03:27	Drop Plug	---	--	--	--	--	203.00
11	Oct 30,2014 03:29	Displace Fluid	Water	7.00	500.0	--	120.00	323.00
12	Oct 30,2014 03:50	Bump Plug	Water	--	1,100.0	--	--	323.00
13	Oct 30,2014 03:53	Check Float	---	--	--	--	--	323.00
14	Oct 30,2014 04:00	Wash	Water	2.00	22.0	--	20.00	343.00
15	Oct 30,2014 04:45	Rig Out	---	--	--	--	--	343.00
16	Oct 30,2014 05:30	Job Complete	---	--	--	--	--	343.00
17	Oct 30,2014 05:45	Pre-Departure Meeting	---	--	--	--	--	343.00
18	Oct 30,2014 06:00	Leave Location	---	--	--	--	--	343.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 30

Temperature (°F) : 90

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



**Pumping
Service Report**

9200652

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

54780

54782

54781

Comments To Service Report

We 10 houred out on the location then pumped the job accourding to the prog. The crew did a great job. Equipment worked very good.