



**Pumping
Service Report**

9198991

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3411A	Rig Frontier 26	Job Date October 19, 2014	Call Sheet 1049095
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	1,600.000	--	--

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	J-55	2,020.0	3,520.0	123.69	8.921	10.625	0.0	1,600.0

Products

Stage 1

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Tail: 680 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 178 (bbl)
Water Temperature(°F) = 45 , Bulk Temperature(°F) = 46 , Slurry Temperature(°F) = 76
+ 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
Water Based Mud	--	--	--	--	Oct 09, 2014 18:51

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Sanjel



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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
449093	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	10/19/2014 23:30	10/20/2014 07:30
446026	TRAILER	Bulker	746026	TRACTOR	Tandem - Tractor	10/19/2014 23:30	10/20/2014 07:30
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	10/19/2014 23:30	10/20/2014 07:30
446084	TRAILER	Bulker	746084	TRACTOR	Tandem - Tractor	10/19/2014 23:30	10/20/2014 07:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Ripka, Robert	10/19/2014 23:30	10/20/2014 00:06		
Durham, Adrian	10/19/2014 23:30	10/20/2014 00:06		
Davila, Israel	10/19/2014 23:30	10/20/2014 00:06		
Martinez, Fernando	10/19/2014 23:30	10/20/2014 00:06		

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 19, 2014 23:30	Arrive On Location	---	--	--	--	--	0.00
2	Oct 19, 2014 23:35	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 20, 2014 03:00	Rig In	---	--	--	--	--	0.00
4	Oct 20, 2014 04:00	STEACS Briefing	---	--	--	--	--	0.00
5	Oct 20, 2014 04:27	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 20, 2014 04:30	Pressure Test	---	--	3,000.0	--	--	0.00
7	Oct 20, 2014 04:32	Pump Preflush	Water	5.00	130.0	--	20.00	20.00
8	Oct 20, 2014 04:40	Mix Cement	0:1:0 Type III	6.00	300.0	--	178.00	198.00
		Remarks: 680 SKS						
9	Oct 20, 2014 05:19	Drop Plug	---	--	--	--	--	198.00
10	Oct 20, 2014 05:22	Displace Fluid	Water Based Mud	5.00	150.0	--	119.00	317.00
11	Oct 20, 2014 06:00	Bump Plug	---	--	600.0	--	--	317.00
		Remarks: BUMP PLUG 1200 PSI						
12	Oct 20, 2014 06:05	Check Float	---	--	--	--	--	317.00
		Remarks: FLOAT HELD						
13	Oct 20, 2014 06:15	Rig Out	---	--	--	--	--	317.00
14	Oct 20, 2014 07:15	Job Complete	---	--	--	--	--	317.00
15	Oct 20, 2014 07:17	Pre-Departure Meeting	---	--	--	--	--	317.00
16	Oct 20, 2014 07:30	Leave Location	---	--	--	--	--	317.00



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Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 64
Temperature (°F) : 78
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
54623
54622
54624

Comments To Service Report

PUMP JOB TO CUSTOMER REQUEST
JOB WENT GOOD



Client	WHITTING PETROLEUM		Client Rep	KENNY		Supervisor	BOB RIPIKA	
Ticket No.	9198991		Well Name	RAZOR 27J-3411A		Unit No.	445026	
Location	SEC27, T10N, R58W		Job Type	Surface Casing		Service District	FORT LUPTONI	
Comments	680 SKS OF 0:1:0 TYPE III CEMENT 14.2 DENSITY						Job Date	10/20/2014

