



**Pumping
Service Report**

9193278

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2212B	Rig Frontier 26	Job Date August 07, 2014	Call Sheet 1045237
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	

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)
13.500	25.000	0.000	1,641.000	--	--

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): 0

To Depth (ft): 1600

Acids/Blends/Fluids:

Tail: 680 Sacks of 0.1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 178 (bbl)

Water Temperature(°F) = 66, Bulk Temperature(°F) = 64, Slurry Temperature(°F) = 79

+ 1 % of CaCl₂ (Preblend),

+ 0.25 % 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	--	--	--	--	Jul 26, 2014 15:47
Water Based Mud	--	--	--	--	Aug 07, 2014 22:16



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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>
201273	PICKUP	3/4 Ton				08/07/2014 18:45	08/07/2014 23:00
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	08/07/2014 18:45	08/07/2014 23:00
449087	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	08/07/2014 18:45	08/07/2014 23:00
446084	TRAILER	Bulker	746084	TRACTOR	Tandem - Tractor	08/07/2014 18:45	08/07/2014 23:00
446167	TRAILER	Bulker	446167	TRAILER	Bulker	08/07/2014 18:45	08/07/2014 23:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Ripka, Robert	08/07/2014 18:45	08/07/2014 23:00		
Martinez, Fernando	08/07/2014 18:45	08/07/2014 23:00		
Doran, Benjamin	08/07/2014 18:45	08/07/2014 23:00		
Lampp III, Larry	08/07/2014 18:45	08/07/2014 23:00		
Pigg, Martin	08/07/2014 18:45	08/07/2014 23:00		
Hansen, Ted	08/07/2014 18:45	08/07/2014 23:00		

Treatment Reports & Remarks

Treatment Report

<u>Event #</u>	<u>Event Time</u>	<u>Event Description</u>	<u>Fluid Type</u>	<u>Rate</u> (bbl/min)	<u>Tubular Pressure</u> (psi)	<u>Annular Pressure</u> (psi)	<u>Stage Volume</u> (bbl)	<u>Total Volume</u> (bbl)
1	Aug 07, 2014 18:45	Arrive On Location	---	--	--	--	--	0.00
2	Aug 07, 2014 18:50	Tailgate Meeting	---	--	--	--	--	0.00
3	Aug 07, 2014 19:00	Rig In	---	--	--	--	--	0.00
4	Aug 07, 2014 20:00	Safety Meeting	---	--	--	--	--	0.00
5	Aug 07, 2014 20:13	Sign-off on Safety	---	--	--	--	--	0.00
6	Aug 07, 2014 20:15	Pressure Test	---	--	--	--	--	0.00
7	Aug 07, 2014 20:17	Pump Preflush	Water	5.00	130.0	--	20.00	20.00
8	Aug 07, 2014 20:24	Mix Cement	0:1:0 Type III	5.00	165.0	--	178.00	198.00
		Remarks: 680 SKS						
9	Aug 07, 2014 21:07	Drop Plug	---	--	--	--	--	198.00
10	Aug 07, 2014 21:09	Displace Fluid	Water Based Mud	5.00	100.0	--	125.00	323.00
11	Aug 07, 2014 21:44	Bump Plug	---	--	600.0	--	--	323.00
		Remarks: BUMP PLUG 1100 PSI						
12	Aug 07, 2014 21:49	Check Float	---	--	--	--	--	323.00
		Remarks: FLOAT HELD						
13	Aug 07, 2014 21:55	Rig Out	---	--	--	--	--	323.00
14	Aug 07, 2014 22:45	Job Complete	---	--	--	--	--	323.00
15	Aug 07, 2014 22:47	Pre-Departure Meeting	---	--	--	--	--	323.00
16	Aug 07, 2014 23:00	Leave Location	---	--	--	--	--	323.00



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Did Float Hold: Yes
Fluid Returns: Yes
Type: Cement
Volume (bbl): 50
Temperature (°F): 89
FDAS Functioning Correctly: Yes
Was the Program Followed As Per Design?: Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

9894

9895

9896

Comments To Service Report

TAIL CEMENT H2O - 7.36 Y - 1.47

Client	WHITING PETROLEUM		Client Rep	KENNY WILKERSON	Supervisor	BOB RIRKA
Ticket No.	9193278	Well Name	RAZOR 271-2212B		Unit No.	745070
Location	SEC27, T10N, R58W	Job Type	Surface Casing		Service District	FORT LUTPON
Comments	680 SKS OF 0.1:0 TYPE III				Job Date	08/07/2014

