



**Pumping  
Service Report**

**9189413**

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2212B	Rig Frontier 26	Job Date August 10, 2014	Call Sheet 1045351
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Intermediate 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)
8.750	33.000	0.000	6,213.000	--	--

**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)
7.000	29.000	L-80	7,030.0	8,160.0	228.94	6.184	7.656	0.0	6,162.9

**Products**

**Stage 1**

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Lead 1: 455 Sacks of 1-1-6 G, Density = 12.5 lb/gal, Volume Pumped = 153.2 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

+ 0.2 % of CFR (Preblend),

+ 0.5 % of CFL-4 (Preblend),

+ 0.15 % of LTR (Preblend),

+ 0.25 lb/sack of Polyflake (Preblend)

Tail: 210 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 56.8 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

+ 8 % of SilFume (Preblend),

+ 2 % of Gel (Preblend),

+ 0.1 % of CFR-5 (Preblend),

+ 0.7 % of CFL-3 (Preblend),

+ 0.3 % of LTR (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	--	--	--	--	Jul 26, 2014 15:47
Water Based Mud	--	--	--	--	Jul 30, 2014 17:28

### Attachment & Tools

#### Down Hole Tools

Tool Type	Depth (ft)	Supplier
Float Collar	--	Third Party

#### Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	7.000	Client

### Units & Personnel

#### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201274	PICKUP	3/4 Ton				08/10/2014 07:30	08/10/2014 14:38
449095	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	08/10/2014 07:30	08/10/2014 14:38
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	08/10/2014 07:30	08/10/2014 14:38

#### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Johnson, Quintin	08/10/2014 07:30	08/10/2014 15:00		
Lampp III, Larry	08/10/2014 07:30	08/10/2014 15:00		
Smock, Curtis	08/10/2014 07:30	08/10/2014 15:00		
Prigmore, Dominic	08/10/2014 07:30	08/10/2014 15:00		
Melgarejo Herrera, Eduardo	08/10/2014 07:30	08/10/2014 15:00		

### 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	Aug 10, 2014 07:30	Arrive On Location	--	--	--	--	--	0.00
		Remarks: arrived 30 minutes ahead of schedule						
2	Aug 10, 2014 07:40	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: talked about spotting trucks and rigging in						
3	Aug 10, 2014 07:50	Rig In	---	--	--	--	--	0.00
		Remarks: rigged into the floor and water and our lay down bin						
4	Aug 10, 2014 10:15	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: signed their and our JSA						
5	Aug 10, 2014 10:16	Safety Meeting	---	--	--	--	--	0.00
		Remarks: talked about the job scope and safety concerns						
6	Aug 10, 2014 10:33	Start - Fluid	Water	2.00	150.0	--	2.00	2.00
		Remarks: filled lines for pressure test						
7	Aug 10, 2014 10:34	Pressure Test	Water	0.00	3,000.0	--	0.00	2.00
		Remarks: lines held good						
8	Aug 10, 2014 10:36	Pump Preflush	Water	5.00	400.0	--	20.00	22.00
		Remarks: Mixed up Barite and WG-1L						



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## Treatment Report

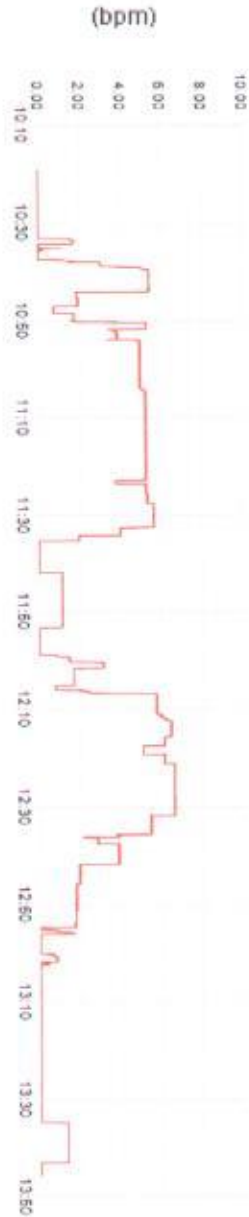
Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
9	Aug 10, 2014 10:43	Pump Spacer	Water	2.00	150.0	--	10.00	32.00
		Remarks: pumped fresh between visweep and slurry						
10	Aug 10, 2014 10:51	Mix Cement	1-1-6 G	5.00	515.0	--	153.20	185.20
		Remarks: pumped lead at 12.5						
11	Aug 10, 2014 11:21	Mix Cement	1-1-0 G	5.10	200.0	--	56.80	242.00
		Remarks: pumped tail at 13.5						
12	Aug 10, 2014 11:33	Stop	--	--	--	--	--	242.00
		Remarks: stop for dropping the plug						
13	Aug 10, 2014 11:35	Drop Plug	--	--	--	--	--	242.00
		Remarks: dropped clients rubber plug						
14	Aug 10, 2014 11:41	Pump Displacement	Water Based Mud	5.00	1,000.0	--	228.60	470.60
		Remarks: pumped 10.5 mud down hole to displace clients rubber plug						
15	Aug 10, 2014 12:56	Bump Plug	--	--	1,500.0	--	--	470.60
		Remarks: bumped at 500 over treating pressure						
16	Aug 10, 2014 12:59	Check Float	--	--	--	--	--	470.60
		Remarks: got 1 bbl back						
17	Aug 10, 2014 13:02	Pressure Test Lines	Water Based Mud	1.00	1,500.0	--	2.00	472.60
		Remarks: did a casing test to 1500 psi and held for 30 minutes						
18	Aug 10, 2014 13:32	Stop	--	--	--	--	--	472.60
		Remarks: rigged off for wash up						
19	Aug 10, 2014 13:44	Wash	--	2.00	150.0	--	20.00	472.60
		Remarks: wash mix and die run backs						
20	Aug 10, 2014 13:45	Rig Out	--	--	--	--	--	472.60
		Remarks: rigged every thing out while washing up						
21	Aug 10, 2014 14:40	Pre-Departure Meeting	--	--	--	--	--	472.60
		Remarks: journey mangement						
22	Aug 10, 2014 14:50	Job Complete	--	--	--	--	--	472.60
		Remarks: do a walk around and check for loose iron and pins are in						
23	Aug 10, 2014 15:00	Leave Location	--	--	--	--	--	472.60
		Remarks: go back to Sanjel yard						

Did Float Hold: Yes  
 Fluid Returns : Yes  
 Type : Cement  
 Volume (bbl) : 40  
 Temperature (°F) : 75  
 FDAS Functioning Correctly : Yes  
 Was the Program Followed As Per Design? : Yes

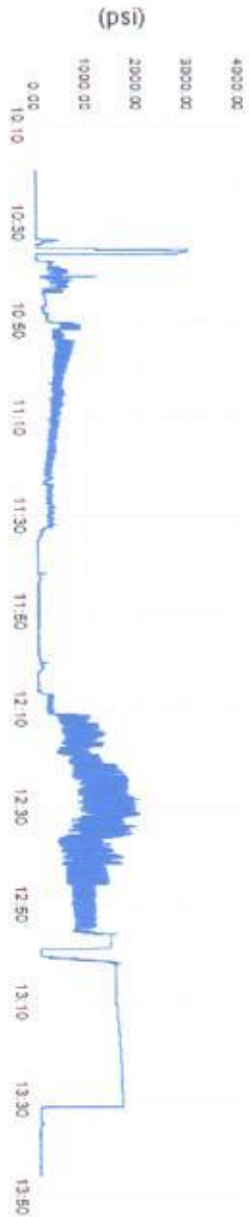


Client	Whiting Petroleum Corp		Client Rep	Kenny Wilkerson	Supervisor	Quentin Elmer Johnson
Ticket No.	9189413		Well Name	Razor 27 J-2212B	Unit No.	745024
Location	Sec 27; T10N; R58W	Job Type	Intermediate Casing	Service District		Fort Lupton
Comments	pump as per design				Job Date	08/10/2014

Unit 745024 Rate Total



Unit 745024 Pump Pressure



Unit 745024 Density

