



**Pumping
Service Report**

9193446

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-3412B	Rig Frontier 26	Job Date July 30, 2014	Call Sheet 1044860
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	--	--	--	--

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	225.19	6.184	7.656	0.0	6,062.0

Products

Stage 1

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids:

Lead 1: 465 Sacks of 1-1-6 G, Density = 12.5 lb/gal, Volume Pumped = 157 (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 = 57 (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



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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Float Collar	6,018.400	Third Party

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	7.000	Client

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>
201025	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	07/30/2014 10:30	07/31/2014 11:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	07/30/2014 10:30	07/31/2014 11:30
201025	PICKUP	1 Ton				07/30/2014 10:30	07/31/2014 11:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Price, Ryan	07/30/2014 10:30	07/31/2014 11:30		
Lopez, Armando	07/30/2014 10:30	07/31/2014 11:30		
Hansen, Kevin	07/30/2014 10:30	07/31/2014 11:30		
Melgarejo Herrera, Eduardo	07/30/2014 10:30	07/31/2014 11:30		
Svoboda, Miloslav	07/30/2014 10:30	07/31/2014 11:30		

Treatment Reports & Remarks



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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)
1	Jul 30,2014 22:30	Arrive On Location	---	--	--	--	--	0.00
		Remarks: arrived 1.5 hrs early. 6 hr pump time not start till 12am.						
2	Jul 30,2014 22:35	Tailgate Meeting	---	--	--	--	--	0.00
3	Jul 30,2014 22:40	Wait On Instructions	---	--	--	--	--	0.00
		Remarks: rigged what we could and wait. Rig still running casing						
4	Jul 31,2014 06:15	Rig In	---	--	--	--	--	0.00
5	Jul 31,2014 07:00	Safety Meeting	---	--	--	--	--	0.00
6	Jul 31,2014 07:20	Sign-off on Safety	---	--	--	--	--	0.00
7	Jul 31,2014 07:26	Pump	Water	--	--	--	--	0.00
		Remarks: filled lines for pressure test						
8	Jul 31,2014 07:28	Pressure Test Lines	---	--	3,500.0	--	--	0.00
9	Jul 31,2014 07:33	Pump Preflush	Water	5.00	500.0	--	10.00	0.00
10	Jul 31,2014 07:36	Pump Spacer	Water Based Mud	5.30	600.0	--	20.00	0.00
		Remarks: pumped visweep						
11	Jul 31,2014 07:36	Mix Cement	1-1-6 G	7.00	900.0	--	157.00	0.00
12	Jul 31,2014 07:36	Mix Cement	1-1-0 G	5.00	400.0	--	57.00	0.00
13	Jul 31,2014 08:17	Drop Plug	---	--	--	--	--	0.00
		Remarks: shut down and dropped plug						
14	Jul 31,2014 08:17	Pump Displacement	---	5.00	800.0	--	222.00	0.00
		Remarks: displaced with mudd provided by rig						
15	Jul 31,2014 09:11	Bump Plug	---	5.00	1,500.0	--	222.00	0.00
16	Jul 31,2014 09:12	Check Float	---	--	--	--	--	0.00
		Remarks: floats held got back .75 bbl						
17	Jul 31,2014 09:16	Pressure Test	---	--	2,000.0	--	--	0.00
		Remarks: pressure test casing 2000psi for 30 min as per customer request						
18	Jul 31,2014 09:46	Stop	---	--	--	--	--	0.00
19	Jul 31,2014 09:50	Rig Out	---	--	--	--	--	0.00
20	Jul 31,2014 10:30	Wash	---	--	--	--	--	0.00
21	Jul 31,2014 11:10	Job Complete	---	--	--	--	--	0.00
22	Jul 31,2014 11:20	Pre-Departure Meeting	---	--	--	--	--	0.00
23	Jul 31,2014 11:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 52

Temperature (°F) : 70

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



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Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

9772

9774

9773

Comments To Service Report

Arrived to location 1.5 hrs early, made contact with Tim and got tally sheet. spotted pump- rigged in water, lay down bin and ran mud line then waited for casing to finish. Job went perfect, no issues, great product delivery, super rig in time. Crew did outstanding job all around and company rep happy with job performed. 6 hour pump charge did not start untill midnight as per when we were requested on location.



Client	Whiting Petroleum Corp	Client Rep	Kenny Wilkerson	Supervisor	Ryan Price
Ticket No.	9193446	Well Name	Razor 27J-3412B	Unit No.	745070
Location	Sec 27;T10N;R58W	Job Type	Intermediate Casing	Service District	Fort Lupton
Comments			Job Date		07/31/2014

