



Pumping
Service Report

9200861

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2211A	Rig Frontier 26	Job Date November 06, 2014	Call Sheet 1050012
Client Representative Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Liner 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)
6.000	15.000	6,005.000	13,688.000	--	--

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)
4.500	11.600	---	--	--	--	--	--	4,985.6	13,630.0

Drill Pipe

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
4.000	48.000	S	--	--	--	--	4,090.000	4,952.790
4.000	0.000	---	--	--	--	--	0.000	4,090.000

Products

Stage 1

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Tail: 585 Sacks of 1:1:0 Poz G, Density = 13.7 lb/gal, Volume Pumped = 155 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70
+ 8 % of Silifume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWCA-H (Preblend),
+ 0.45 % of LTR (Preblend),
+ 0.2 % of AS-3 (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

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	13,630.000	Third Party
Float Collar	13,620.000	Third Party

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>
449093	TRAILER	Utility Trailer	200868	PICKUP	3/4 Ton	11/06/2014 07:00	11/06/2014 15:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	11/06/2014 07:00	11/06/2014 15:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Lopez, Armando	11/06/2014 07:00	11/06/2014 15:30		
Viera, John	11/06/2014 07:00	11/06/2014 15:30		
Hansen, Ted	11/06/2014 07:00	11/06/2014 15:30		
Palu, Vladislav	11/06/2014 07:00	11/06/2014 15:30		

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	Nov 06,2014 07:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 06,2014 07:10	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 06,2014 07:20	Rig In	---	--	--	--	--	0.00
4	Nov 06,2014 10:00	STEACS Briefing	---	--	--	--	--	0.00
5	Nov 06,2014 10:30	Sign-off on Safety	---	--	--	--	--	0.00
6	Nov 06,2014 10:36	Start - Fluid	Water	2.00	1,200.0	--	2.00	2.00
		Remarks: Fill lines						
7	Nov 06,2014 10:40	Pressure Test	---	--	5,000.0	--	--	2.00
8	Nov 06,2014 10:44	Pump Spacer	Water	4.00	1,400.0	--	10.00	12.00
9	Nov 06,2014 10:48	Mix Cement	1:1:0 Poz G	5.00	2,300.0	--	155.00	167.00
		Remarks: Pump 585 sacks Density 13.7 Yield 1.48 Water 6.74						
10	Nov 06,2014 11:46	Drop Plug	---	--	--	--	--	167.00
11	Nov 06,2014 11:47	Displace Fluid	Water	5.00	2,300.0	--	168.00	335.00
12	Nov 06,2014 12:34	Bump Plug	---	--	--	--	--	335.00
		Remarks: 1250 psi before plug landed. 1825 psi landed plug						
13	Nov 06,2014 12:37	Pump	Water	--	--	--	--	335.00
		Remarks: Pump through shoe with 2850 psi. Used 5 bbls for wet shoe						
14	Nov 06,2014 12:42	Check Float	---	--	--	--	--	335.00
		Remarks: Got 1/2 bbls back						
15	Nov 06,2014 12:57	Pressure Test	---	--	1,500.0	--	--	335.00
		Remarks: Pressure test back side for 5 min at 1500 psi						
16	Nov 06,2014 13:12	Pump	Water	7.00	1,700.0	--	125.00	460.00
		Remarks: Clean out hole. Got 40 bbls cement back to surface						
17	Nov 06,2014 13:44	Stop	---	--	--	--	--	0.00
18	Nov 06,2014 14:00	Wash	---	--	--	--	--	0.00
19	Nov 06,2014 14:30	Rig Out	---	--	--	--	--	0.00
20	Nov 06,2014 15:00	Job Complete	---	--	--	--	--	0.00
21	Nov 06,2014 15:15	Pre-Departure Meeting	---	--	--	--	--	0.00
22	Nov 06,2014 15:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns: Yes

Type: Cement

Volume (bbl): 40

Temperature (°F): 70

FDAS Functioning Correctly: Yes

Was the Program Followed As Per Design?: Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

54848

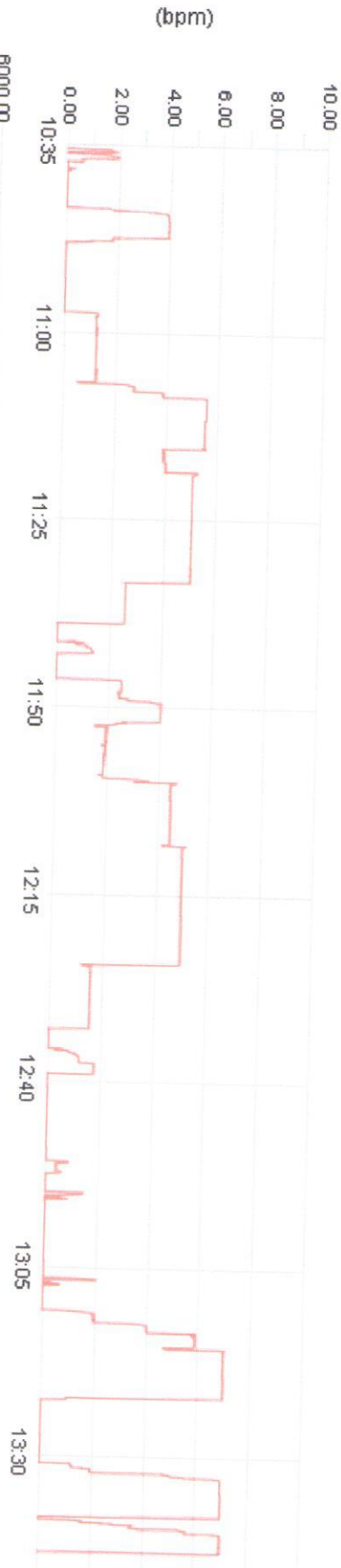
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Comments To Service Report

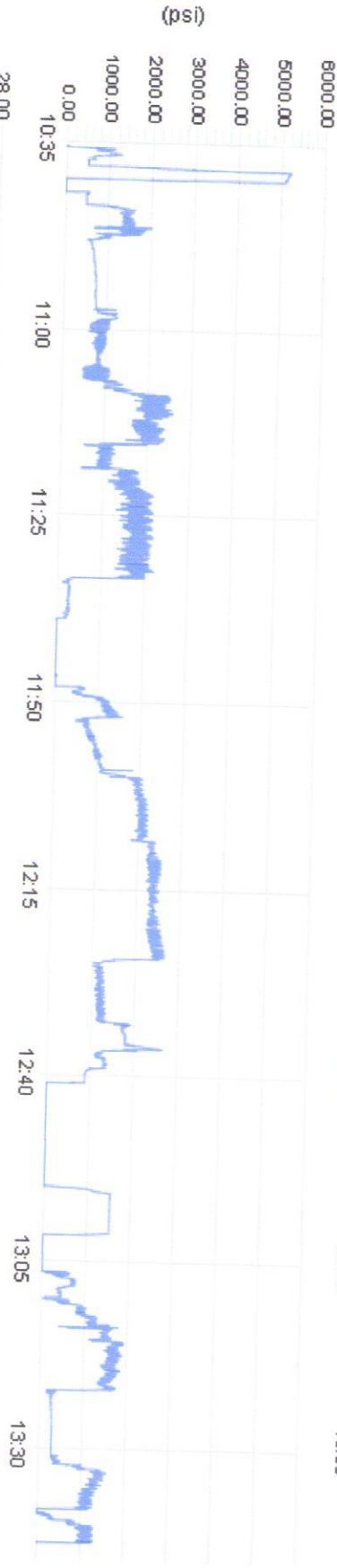
Pumped 585 sacks 155 bbls of Poz G cement Density 13.7 Yield 1.48 Water 6.74
Got 40 bbls cement back to surface
Liner 4.5 11.6 Lbs Length 8660 Ft

Client	Whiting Petroleum	Client Rep	Kenny Wilkerson	Supervisor	Armando Looez
Ticket No.	9200861	Well Name	Razor 27J-2211A	Unit No.	745070
Location	Sec27:T10N:R58W	Job Type	Liner Casing	Service District	Ft Lupton Co
Comments				Job Date	11/06/2014

Unit 745070 Rate Total



Unit 745070 Pump Pressure



Unit 745070 Density

