



**Pumping
Service Report**

9188059

| | | | |
|--|------------------------------|----------------------------|-----------------------------|
| Client Name Whiting Petroleum Corp. | Well Name Razor 26K-2307A | Job Date April 01, 2014 | Call Sheet 1040729 |
| Client Representative Kenny Wilkerson | Location Sec 26:T10N:R58W | Job Type Surface Casing | Rig Frontier Drilling 26 |

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 | 1,500.000 | -- | -- | |

| 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) | |
| 9.625 | 36.000 | J-55 | 2,020.0 | 3,520.0 | 115.96 | 8.921 | 10.625 | 0.0 | 1,500.0 | |

Products

| Stage 1 | |
|---|------|
| From Depth (ft): | 0 |
| To Depth (ft): | 1500 |
| Acids/Blends/Fluids : | |
| Tail: 665 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 147.1 (bbl) | |
| Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70 | |
| + 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 | -- | -- | -- | -- | Mar 23, 2014 10:52 |

Attachment & Tools

| Down Hole Tools | | |
|-------------------|------------|-------------|
| Tool Type | Depth (ft) | Supplier |
| Guide Shoe | 1,572.800 | Third Party |
| Float Collar | 1,525.400 | Third Party |
| Tubular Plugs | | |
| Tubular Plug Type | Size (in) | Supplier |
| Rubber Top | 9.625 | Sanjel |



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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> |
| 449086 | TRAILER | Utility Trailer | 201173 | PICKUP | 1 Ton | 04/02/2014 00:00 | 04/02/2014 14:00 |
| 445047 | TRAILER | SCM Twin | 745047 | TRACTOR | Tandem - Tractor | 04/02/2014 00:00 | 04/02/2014 14:00 |
| 446173 | TRAILER | Bulker | 746173 | TRACTOR | Tandem - Tractor | 04/02/2014 00:00 | 04/02/2014 14:00 |
| 446145 | TRAILER | Bulker | 746145 | TRACTOR | Tandem - Tractor | 04/02/2014 00:00 | 04/02/2014 14:00 |
| 445020 | TRAILER | Twin Pumper | 745020 | TRACTOR | Tandem - Tractor | 04/02/2014 00:00 | 04/02/2014 14:00 |

| Crew and Bonuses | | | | |
|-------------------------|--------------------|------------------|---------------------------|-------------------------|
| <u>Employee</u> | <u>Start Shift</u> | <u>End Shift</u> | <u>Second Start Shift</u> | <u>Second End Shift</u> |
| Hall, Andrew J | 04/02/2014 00:00 | 04/02/2014 14:00 | | |
| Durham, Adrian | 04/02/2014 00:00 | 04/02/2014 14:00 | | |
| Barden, Sean | 04/02/2014 00:00 | 04/02/2014 14:00 | | |
| Doran, Benjamin | 04/02/2014 00:00 | 04/02/2014 14:00 | | |
| Svoboda, Miloslav | 04/02/2014 00:00 | 04/02/2014 14:00 | | |
| Laeger, Kacey | 04/02/2014 00:00 | 04/02/2014 14:00 | | |

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 | Apr 02,2014 00:00 | Arrive On Location | | -- | -- | -- | -- | 0.00 |
| 2 | Apr 02,2014 00:15 | Tailgate Meeting | | -- | -- | -- | -- | 0.00 |
| 3 | Apr 02,2014 02:30 | Rig In | | -- | -- | -- | -- | 0.00 |
| 4 | Apr 02,2014 04:00 | Safety Meeting | | -- | -- | -- | -- | 0.00 |
| 5 | Apr 02,2014 04:30 | Sign-off on Safety | | -- | -- | -- | -- | 0.00 |
| 6 | Apr 02,2014 04:45 | Pressure Test | Water | 1.00 | 3,000.0 | -- | 3.00 | 3.00 |
| 7 | Apr 02,2014 05:00 | Establish Circulation | Water | 4.00 | 50.0 | -- | 20.00 | 23.00 |
| 8 | Apr 02,2014 05:10 | Stop | | -- | -- | -- | -- | 23.00 |
| Remarks: mix pump went out | | | | | | | | |
| 9 | Apr 02,2014 06:00 | Rig Out | | -- | -- | -- | -- | 23.00 |
| Remarks: Rig out head and pump truck | | | | | | | | |
| 10 | Apr 02,2014 09:00 | Rig In | | -- | -- | -- | -- | 23.00 |
| 11 | Apr 02,2014 10:00 | Pressure Test | Water | 1.00 | 3,000.0 | -- | 3.00 | 26.00 |
| 12 | Apr 02,2014 10:05 | Establish Circulation | Water | 4.00 | 50.0 | -- | 5.00 | 31.00 |
| 13 | Apr 02,2014 10:10 | Pump | 0:1:0 Type III | 4.00 | 250.0 | -- | 174.10 | 205.10 |
| 14 | Apr 02,2014 11:00 | Drop Plug | | -- | -- | -- | -- | 205.10 |
| 15 | Apr 02,2014 11:05 | Displace Fluid | Water | 5.00 | 400.0 | -- | 112.00 | 317.10 |
| 16 | Apr 02,2014 11:35 | Bump Plug | Water | -- | 950.0 | -- | -- | 317.10 |
| 17 | Apr 02,2014 11:36 | Check Float | | -- | -- | -- | -- | 317.10 |
| 18 | Apr 02,2014 11:45 | Wash | Water | 1.50 | 22.0 | -- | 20.00 | 337.10 |
| 19 | Apr 02,2014 12:30 | Rig Out | | -- | -- | -- | -- | 337.10 |
| 20 | Apr 02,2014 13:30 | Job Complete | | -- | -- | -- | -- | 337.10 |
| 21 | Apr 02,2014 13:45 | Pre-Departure Meeting | | -- | -- | -- | -- | 337.10 |
| 22 | Apr 02,2014 14:01 | Leave Location | -- | -- | -- | -- | -- | 337.10 |

Did Float Hold: Yes
 Fluid Returns : Yes
 Type : Cement
 Volume (bbl) : 32
 Temperature (°F) : 80
 FDAS Functioning Correctly : Yes
 Was the Program Followed As Per Design? : Yes

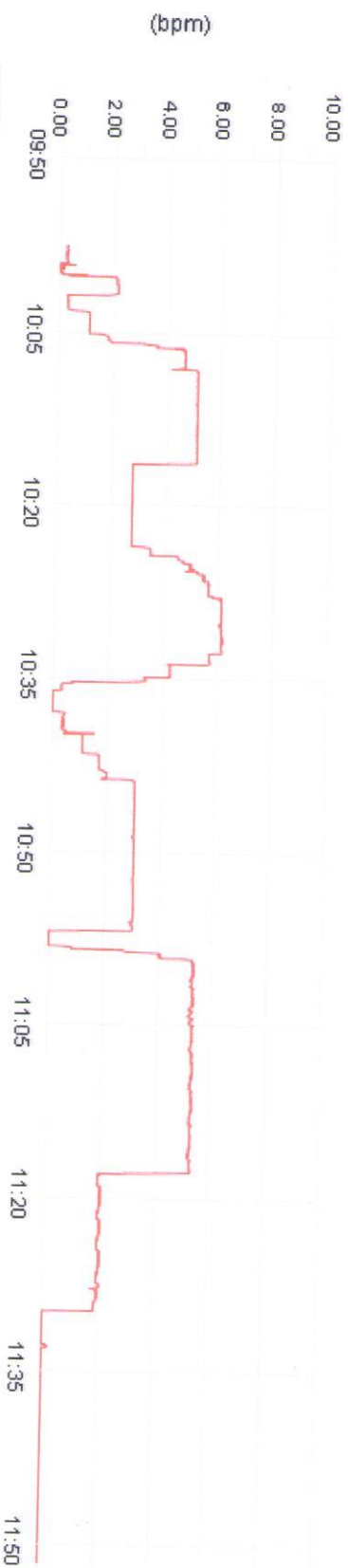
Material Transfer Sheet Number

Material Transfer Sheet Number
 9254
 9255

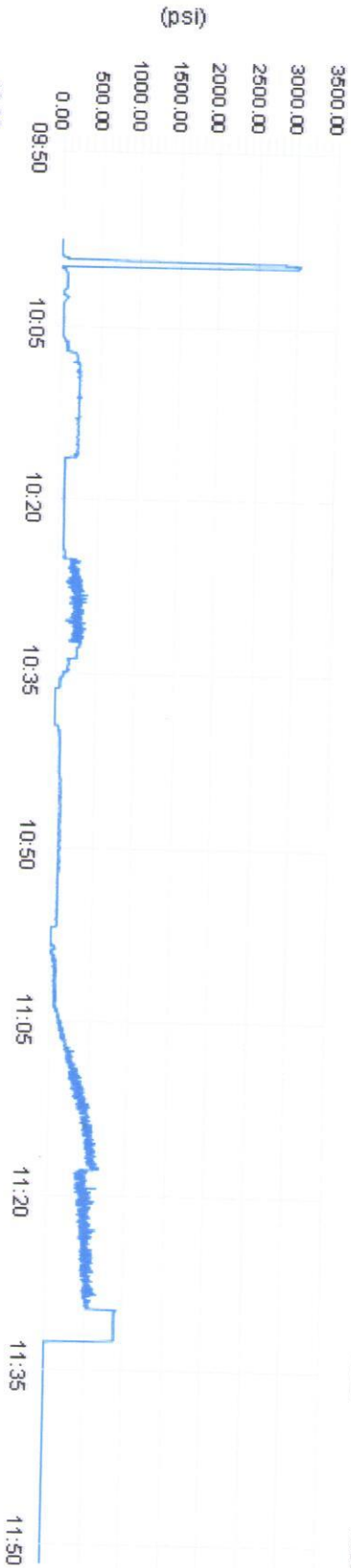


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|------------|-------------------|------------|-----------------|------------------|-----------------|
| Client | Whiting Petroleum | Client Rep | Kenny Wilkerson | Supervisor | Andy Hall |
| Ticket No. | 9188059 | Well Name | Razor 26K-2307A | Unit No. | 745020 |
| Location | Sec 26:T10N:R58W | Job Type | Surface Casing | Service District | 505 Fort Lupton |
| Comments | | Job Date | 04/02/2014 | | |

Unit 745020 Rate Total



Unit 745020 Pump Pressure



Unit 745020 Density

