



Pumping Service Report

9201558

API #05 -123-392570000

| | | | | |
|--|--|----------------------------|------------------------------|--|
| Client Name Whiting Petroleum Corp. | Well Name Razor 33M - 2803 | Rig Pioneer Drilling 54 | Job Date January 08, 2015 | Call Sheet 1053079 |
| Client Representative Matt | Surface Well Location SWSW Sec 33:T10N:R58W | Down Hole Well Location | Job Type Liner Casing | Lead Supervisor Hansen, Kevin (27592) |

Well Profile

| | |
|--|-------|
| Well Type: | Oil |
| 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 | 5,049.000 | 13,107.700 | -- | -- |

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 | L-80 | 6,350.0 | 7,780.0 | 125.95 | 4.000 | 5.000 | 5,004.0 | 13,107.7 |

Products

Stage 1

From Depth (ft): 5042
To Depth (ft): 13107.7

Acids/Blends/Fluids :

Tail: 475 Sacks of 1:1:0 Poz G, Density = 13.7 lb/gal, Volume Pumped = 125.2 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 65
+ 8 % of Silica Fume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWCA-H (Preblend),
+ 0.35 % 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 | — | 8.400 | — | — | Jul 14, 2014 20:27 |
| Water Based Mud | — | — | — | — | Oct 09, 2014 19:06 |

Attachment & Tools

Down Hole Tools

| Tool Type | Depth (ft) | Supplier |
|--------------|------------|-------------|
| Guide Shoe | — | Third Party |
| Float Collar | — | Third Party |



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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> |
|-----------------------|------------------|--------------------|-------------------------|------------------|---------------------|-------------------------|--------------------------|
| 449095 | TRAILER | Utility Trailer | 201009 | PICKUP | 1 Ton | 01/08/2015 11:00 | 01/09/2015 00:30 |
| 445024 | TRAILER | SCM Twin | 745024 | TRACTOR | Tandem - Tractor | 01/08/2015 11:00 | 01/09/2015 00:30 |
| 449127 | TRAILER | 1600 Porta Bulk | | | | 01/08/2015 11:00 | 01/09/2015 00:30 |

Crew and Bonuses

| <u>Employee</u> | <u>Start Shift</u> | <u>End Shift</u> | <u>Second Start Shift</u> | <u>Second End Shift</u> |
|-----------------------|--------------------|------------------|---------------------------|-------------------------|
| Hansen, Kevin (27592) | 01/08/2015 11:00 | 01/09/2015 00:30 | | |
| Welch, Steven (30076) | 01/08/2015 11:00 | 01/09/2015 00:30 | | |
| Cox, Brandon (27419) | 01/08/2015 11:00 | 01/09/2015 00:30 | | |
| Crane, Troy (29924) | 01/08/2015 11:00 | 01/09/2015 00:30 | | |
| Crane, Troy (29924) | 01/08/2015 11:00 | 01/09/2015 00:30 | | |

Treatment Reports & Remarks



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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 | Jan 08,2015 11:00 | Arrive On Location | | — | — | — | — | 0.00 |
| 2 | Jan 08,2015 11:10 | Tailgate Meeting | | — | — | — | — | 0.00 |
| | | Remarks: Discussed spotting of trucks and filled out JSA | | | | | | |
| 3 | Jan 08,2015 13:00 | Crew Briefing (Rig in) | | — | — | — | — | 0.00 |
| 4 | Jan 08,2015 17:30 | Rig in Complete | | — | — | — | — | 0.00 |
| 5 | Jan 08,2015 17:35 | Crew Briefing (Pre Job) | | — | — | — | — | 0.00 |
| | | Remarks: Discussed job and safety concerns with the rig crew | | | | | | |
| 6 | Jan 08,2015 17:55 | Pump | Water Based Mud | 4.50 | 1,000.0 | — | 145.00 | 145.00 |
| | | Remarks: Pumped mud to seat Ball | | | | | | |
| 7 | Jan 08,2015 18:35 | N/A | | — | — | — | — | 145.00 |
| | | Remarks: Seat the Ball | | | | | | |
| 8 | Jan 08,2015 19:00 | Wait On Instructions | | — | — | — | — | 145.00 |
| | | Remarks: Waited on Rig to Rig down our lines and blow down their lines | | | | | | |
| 9 | Jan 08,2015 19:40 | Pressure Test Start | Water | 2.00 | 5,000.0 | — | 3.00 | 148.00 |
| 10 | Jan 08,2015 19:45 | Pressure Test Complete | | — | — | — | — | 148.00 |
| 11 | Jan 08,2015 19:46 | Pump Preflush | Water | 4.00 | 1,000.0 | — | 10.00 | 158.00 |
| | | Remarks: Pumped 10BBL with indicator dye, | | | | | | |
| 12 | Jan 08,2015 20:06 | Pump Preflush | Water | 4.00 | 1,000.0 | — | 30.00 | 188.00 |
| | | Remarks: Pumped Visweep | | | | | | |
| 13 | Jan 08,2015 20:16 | Mix Cement | 1:1:0 Poz G | 5.00 | 600.0 | — | 125.00 | 313.00 |
| | | Remarks: Pumped @ D-13.7 | | | | | | |
| 14 | Jan 08,2015 20:53 | Wash | | — | — | — | — | 313.00 |
| | | Remarks: Washed out lines | | | | | | |
| 15 | Jan 08,2015 21:00 | Drop Balls | | — | — | — | — | 313.00 |
| | | Remarks: Rig dropped Dart | | | | | | |
| 16 | Jan 08,2015 21:05 | Displace Fluid | Water | 5.00 | 800.0 | — | 160.00 | 473.00 |
| | | Remarks: Used KCL Water | | | | | | |
| 17 | Jan 08,2015 22:07 | Bump Plug | | — | — | — | — | 473.00 |
| | | Remarks: Bumped Dart | | | | | | |
| 18 | Jan 08,2015 22:08 | Check Float | | — | 2,400.0 | — | — | 473.00 |
| | | Remarks: 3/4bbl back, Floats held | | | | | | |
| 19 | Jan 08,2015 22:30 | Pump | Water | 7.00 | 1,500.0 | — | 110.00 | 583.00 |
| | | Remarks: Rolled the Hole- Used KCL Water | | | | | | |
| 20 | Jan 08,2015 23:00 | Wash | | — | — | — | — | 583.00 |
| 21 | Jan 08,2015 23:20 | Rig Out | | — | — | — | — | 583.00 |
| 22 | Jan 08,2015 23:30 | Job Complete | | — | — | — | — | 583.00 |
| 23 | Jan 09,2015 00:15 | Pre-Departure Meeting | | — | — | — | — | 583.00 |
| | | Remarks: Discussed journey management | | | | | | |
| 24 | Jan 09,2015 00:30 | Leave Location | | — | — | — | — | 583.00 |



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Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 15
Temperature (°F) : 65
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

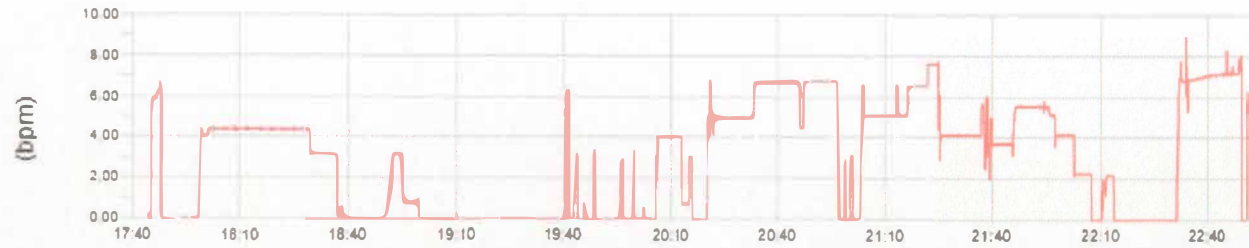
Material Transfer Sheet Number

55047

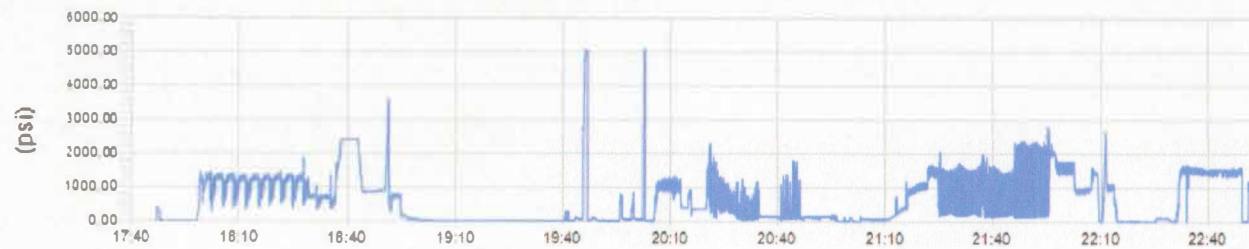


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|------------|--------------------------------------|------------|----------------|------------------|--------------|
| Client | Whiting Petroleum Corp. | Client Rep | Mr. Brodic | Supervisor | Kevin Hansen |
| Ticket No. | 9201558 | Well Name | Razor 33M-2803 | Unit No. | 745024 |
| Location | SWSW Sec 33:T10N:R58W | Job Type | Liner Casing | Service District | Ft Lupton CO |
| Comments | Pump type 1:1:0 Poz G. 125bbl @ 13.7 | | | Job Date | 01/08/2015 |

Unit 745024 Rate Total



Unit 745024 Pump Pressure



Unit 745024 Density

