

9209975

| | | | | |
|--|---|------------------------------|----------------------------|--|
| Client Name Whiting Petroleum Corp. | Well Name Horsetail 07G - 1812 | Rig Unit Drilling Co. 409 | Job Date March 06, 2016 | Call Sheet 1065505 |
| Client Representative Kenny | Surface Well Location Sec 18:T10N:R57W | Down Hole Well Location | Job Type Surface Casing | Lead Supervisor Hansen, Kevin (27592) |

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 | 30.000 | 0.000 | 2,056.000 | -- | -- |

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 | 158.17 | 8.921 | 10.625 | 0.0 | 2,046.0 |

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 1403

Acids/Blends/Fluids :

Lead 1: 392 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 171.7 (bbl)
Water Temperature(°F) = 61, Bulk Temperature(°F) = 61, Slurry Temperature(°F) = 70
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 2

From Depth (ft): 1403
To Depth (ft): 2046

Acids/Blends/Fluids :

Tail: 230 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 59.8 (bbl)
Water Temperature(°F) = 62, Bulk Temperature(°F) = 61, Slurry Temperature(°F) = 71
+ 2 % of CaCl2 (Preblend),
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 3

From Depth (ft):
To Depth (ft):

Acids/Blends/Fluids :

Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
|-----------------|----------------|-------------------|-------------------|------------------|--------------------|
| Water | -- | 8.340 | -- | -- | Jul 07, 2015 14:19 |
| Water Based Mud | -- | -- | -- | -- | Aug 24, 2015 15:49 |

Attachment & Tools

Down Hole Tools

| <u>Tool Type</u> | <u>Depth (ft)</u> | <u>Supplier</u> |
|------------------|-------------------|-----------------|
| Float Collar | 1,999.000 | Third Party |
| Guide Shoe | 2,046.000 | Third Party |

Tubular Plugs

| <u>Tubular Plug Type</u> | <u>Size (in)</u> | <u>Supplier</u> |
|--------------------------|------------------|-----------------|
| Rubber Top | 9.625 | 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> |
|-----------------------|------------------|-----------------|-------------------------|------------------|------------------|-------------------------|--------------------------|
| 449087 | TRAILER | Utility Trailer | 201173 | PICKUP | 1 Ton | 03/06/2016 21:30 | 03/07/2016 05:30 |
| 445024 | TRAILER | SCM Twin | 745024 | TRACTOR | Tandem - Tractor | 03/06/2016 21:30 | 03/07/2016 05:30 |
| 446169 | TRAILER | Bulker | 746169 | TRACTOR | Tandem - Tractor | 03/06/2016 21:30 | 03/07/2016 05:30 |

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) | 03/06/2016 21:30 | 03/07/2016 05:30 | | |
| McGinness, Matthew (30710) | 03/06/2016 21:30 | 03/07/2016 05:30 | | |
| Yates, William (29930) | 03/06/2016 21:30 | 03/07/2016 05:30 | | |
| Decenick, Scott (30083) | 03/06/2016 21:30 | 03/07/2016 05:30 | | |
| Decenick, Scott (30083) | 03/06/2016 21:30 | 03/07/2016 05:30 | | |

Treatment Reports & Remarks

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 | Mar 06,2016 21:30 | Arrive On Location | | — | — | -- | -- | 0.00 |
| 2 | Mar 06,2016 21:40 | Crew Briefing (Rig in) | | — | — | -- | -- | 0.00 |
| | | Remarks: Discussed spotting trucks and filled out JSA. | | | | | | |
| 3 | Mar 07,2016 01:45 | Rig in Complete | | — | — | -- | -- | 0.00 |
| 4 | Mar 07,2016 02:00 | Crew Briefing (Pre Job) | | — | — | -- | -- | 0.00 |
| | | Remarks: Discussed upcoming job and safety concerns with rig crew. | | | | | | |
| 5 | Mar 07,2016 02:25 | Pressure Test Start | Water | 2.00 | 100.0 | -- | 2.00 | 0.00 |
| | | Remarks: Filled lines for pressure test. | | | | | | |
| 6 | Mar 07,2016 02:29 | Pressure Test Complete | | — | 3,000.0 | -- | -- | 0.00 |
| | | Remarks: Pressure test good. | | | | | | |
| 7 | Mar 07,2016 02:35 | Pump Preflush | Water | 5.00 | 150.0 | -- | 10.00 | 10.00 |
| | | Remarks: Pumped 10 bbl with indicator dye. | | | | | | |
| 8 | Mar 07,2016 02:37 | Pump Spacer | Water | 5.00 | 150.0 | -- | 10.00 | 20.00 |
| | | Remarks: Fresh water spacer. | | | | | | |
| 9 | Mar 07,2016 02:40 | Mix Cement | Control Set C | 6.00 | 200.0 | -- | 172.00 | 192.00 |
| | | Remarks: D-12.0, Y-2.46, WR-14.52 | | | | | | |
| 10 | Mar 07,2016 03:04 | Job Complete | | — | — | -- | -- | 192.00 |
| 11 | Mar 07,2016 03:05 | Mix Cement | 0:1:0 Type III | 6.00 | 200.0 | -- | 60.00 | 60.00 |
| | | Remarks: D-14.2, Y-1.46, WR-7.36 | | | | | | |
| 12 | Mar 07,2016 03:20 | Drop Plug | | — | — | -- | -- | 60.00 |
| 13 | Mar 07,2016 03:25 | Displace Fluid | Water Based Mud | 6.00 | 500.0 | -- | 155.00 | 215.00 |
| | | Remarks: Slowed to 2 bbl minute @ 145 away. | | | | | | |
| 14 | Mar 07,2016 04:02 | Bump Plug | | — | 1,100.0 | -- | -- | 215.00 |
| | | Remarks: Bumped 500 over. | | | | | | |
| 15 | Mar 07,2016 04:05 | Check Float | | — | 1,100.0 | -- | -- | 215.00 |
| | | Remarks: Floats held .5 bbl back. | | | | | | |
| 16 | Mar 07,2016 04:20 | Wash | | — | — | -- | -- | 215.00 |
| 17 | Mar 07,2016 04:55 | Rig Out | | — | — | -- | -- | 215.00 |
| 18 | Mar 07,2016 05:20 | Pre-Departure Meeting | | — | — | -- | -- | 215.00 |
| | | Remarks: Discussed journey management. | | | | | | |
| 19 | Mar 07,2016 05:30 | Leave Location | | — | — | -- | -- | 192.00 |

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 53

Temperature (°F) : 72

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

9209975

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

64955

64956

64957

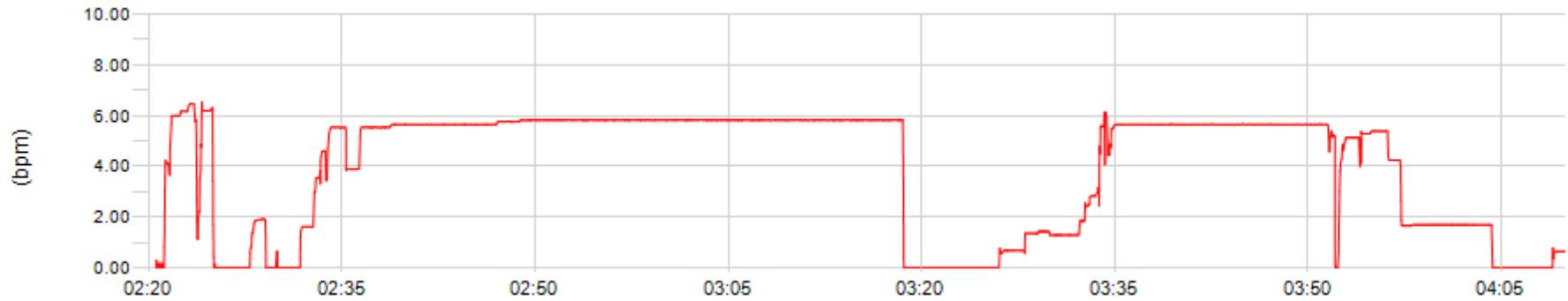


Client Whiting Petroleum Corp
Ticket No. 9209975
Location Sec 18:T10N:R57W
Comments Lead 392 sacks Control set C D-12.0, Y-2.46, WR-14.52
Tail 230 sacks type III D-14.2, Y-1.46, WR-7.36

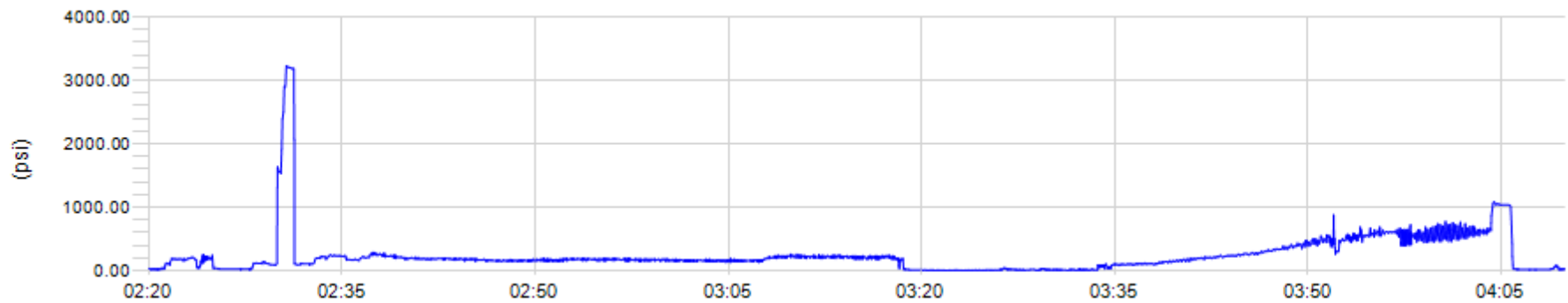
Client Rep Kenny
Well Name Horsetail O7G -1812
Job Type Surface Casing

Supervisor Kevin Hansen
Unit No. 745024
Service District Ft Lupton
Job Date 03/07/2016

Unit 745024 Rate Total



Unit 745024 Pump Pressure



Unit 745024 Density

