



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Norstar Petroleum Inc
88 -Inverness Cir E. Unit F104
Englewood CO 80112
ATTN: Brad Rine

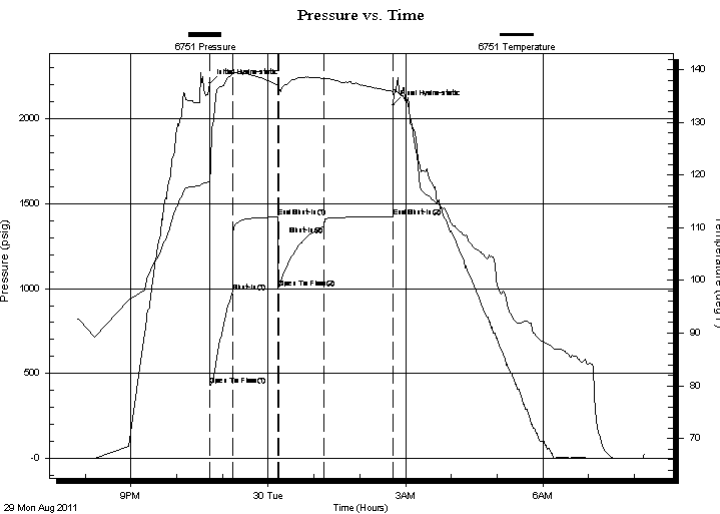
Phillips- Denny #1-4
04-22-23 Hodgeman Co
Job Ticket: 43672 **DST#: 3**
Test Start: 2011.08.29 @ 19:50:02

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:43:40
Time Test Ended: 08:13:30
Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**
Total Depth: 4700.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Straddle
Tester: Will MacLean
Unit No: 37
Reference Elevations: 2307.00 ft (KB)
2302.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6751 Outside
Press @RunDepth: 1368.09 psig @ 4513.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.08.29 End Date: 2011.08.30 Last Calib.: 2011.08.30
Start Time: 19:50:02 End Time: 08:13:30 Time On Btm: 2011.08.29 @ 22:43:19
Time Off Btm: 2011.08.30 @ 02:44:00

TEST COMMENT: IF- Bottom of Bucket in 1min
IS- Surface Blow Built to 2 1/4" Died Back to 1"
FF- Bottom of Bucket in 1min 15sec Died Back to 9"
FSI- Weak Surface Blow Died in 8 min



PRESSURE SUMMARY

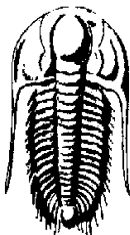
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2207.50 | 118.75 | Initial Hydro-static |
| 1 | 432.14 | 118.25 | Open To Flow (1) |
| 30 | 978.06 | 139.18 | Shut-In(1) |
| 90 | 1420.25 | 137.07 | End Shut-In(1) |
| 90 | 1005.50 | 136.83 | Open To Flow (2) |
| 151 | 1368.09 | 138.28 | Shut-In(2) |
| 241 | 1421.23 | 135.87 | End Shut-In(2) |
| 241 | 2081.88 | 136.22 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 310.00 | 5%w 20%g 25%m 50%oil | 2.14 |
| 558.00 | 10%g 20%oil 30%w 40%m | 7.83 |
| 1178.00 | 10%m 15%g 70%oil | 16.52 |
| 1504.00 | 10%g 20%m 70%oil | 21.10 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



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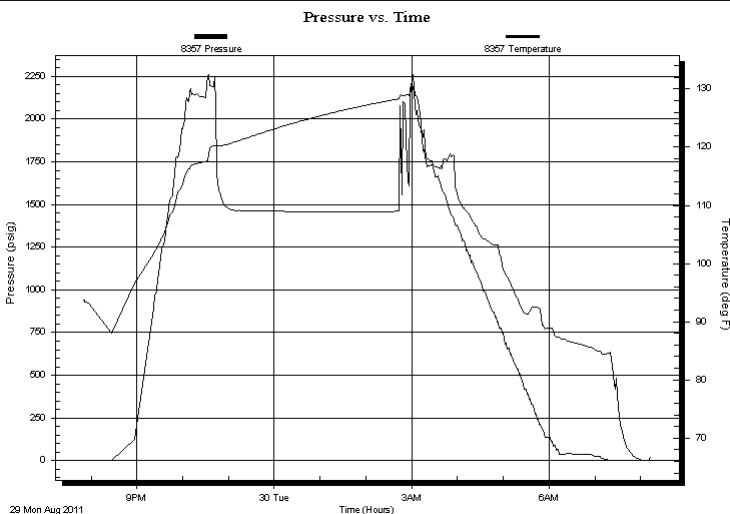
Phillips- Denny #1-4
04-22-23 Hodgeman Co
Job Ticket: 43672 **DST#: 3**
Test Start: 2011.08.29 @ 19:50:02

GENERAL INFORMATION:

| | |
|---|---------------------------------------|
| Formation: Cherokee | Test Type: Conventional Straddle |
| Deviated: No Whipstock: ft (KB) | Tester: Will MacLean |
| Time Tool Opened: 22:43:40 | Unit No: 37 |
| Time Test Ended: 08:13:30 | Reference Elevations: 2307.00 ft (KB) |
| Interval: 4503.00 ft (KB) To 4573.00 ft (KB) (TVD) | 2302.00 ft (CF) |
| Total Depth: 4700.00 ft (KB) (TVD) | KB to GR/CF: 5.00 ft |
| Hole Diameter: 7.88 inches Hole Condition: Good | |

| | | |
|---|-------------------------|-------------------------|
| Serial #: 8357 | Below (Straddle) | Capacity: 8000.00 psig |
| Press @ Run Depth: psig @ 4598.00 ft (KB) | | Last Calib.: 2011.08.30 |
| Start Date: 2011.08.29 | End Date: 2011.08.30 | Time On Btm: |
| Start Time: 19:50:05 | End Time: 08:13:15 | Time Off Btm: |

TEST COMMENT: IF- Bottom of Bucket in 1min
IS- Surface Blow Built to 2 1/4" Died Back to 1"
FF- Bottom of Bucket in 1min 15sec Died Back to 9"
FS- Weak Surface Blow Died in 8 min



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
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Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 310.00 | 5%w 20%g 25%m 50%oil | 2.14 |
| 558.00 | 10%g 20%oil 30%w 40%m | 7.83 |
| 1178.00 | 10%m 15%g 70%oil | 16.52 |
| 1504.00 | 10%g 20%m 70%oil | 21.10 |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
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DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc
88 -Inverness Cir E. Unit F104
Englewood CO 80112
ATTN: Brad Rine

Phillips- Denny #1-4
04-22-23 Hodgeman Co
Job Ticket: 43672 **DST#: 3**
Test Start: 2011.08.29 @ 19:50:02

Mud and Cushion Information

| | | |
|-----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 31 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 34000 ppm |
| Viscosity: 43.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 16.37 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 8300.00 ppm | | |
| Filter Cake: 1.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 310.00 | 5%w 20%g 25%m 50%oil | 2.144 |
| 558.00 | 10%g 20%oil 30%w 40%m | 7.827 |
| 1178.00 | 10%m 15%g 70%oil | 16.524 |
| 1504.00 | 10%g 20%m 70%oil | 21.097 |

Total Length: 3550.00 ft Total Volume: 47.592 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW is .261 @ 69f =34000
API 31 @ 60f =31

