



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
Mcperson Ks. 67460+1009
ATTN: Jamie Hess

Jennifer #1
15-18s-19w Rush
Job Ticket: 041547 **DST#: 1**
Test Start: 2011.02.06 @ 17:28:00

GENERAL INFORMATION:

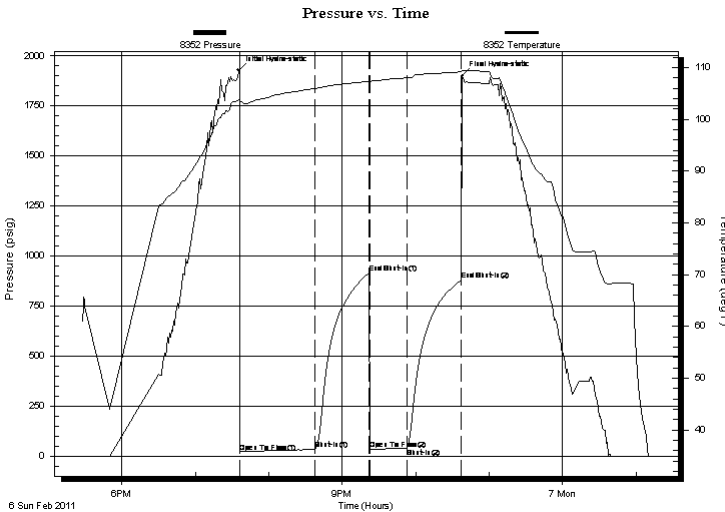
Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:36:20
Time Test Ended: 01:11:30
Interval: **3855.00 ft (KB) To 3885.00 ft (KB) (TVD)**
Total Depth: 3885.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 2035.00 ft (KB)
2030.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 38.90 psig @ 3856.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.06 End Date: 2011.02.07 Last Calib.: 2011.02.07
Start Time: 17:28:05 End Time: 01:11:29 Time On Btm: 2011.02.06 @ 19:35:10
Time Off Btm: 2011.02.06 @ 22:38:09

TEST COMMENT: IF: Weak, Steady, Half inch
IS: No Return
FF: No Blow
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1928.19 | 103.77 | Initial Hydro-static |
| 2 | 22.05 | 103.32 | Open To Flow (1) |
| 63 | 32.65 | 105.97 | Shut-In(1) |
| 107 | 916.74 | 107.38 | End Shut-In(1) |
| 108 | 35.10 | 106.80 | Open To Flow (2) |
| 138 | 38.90 | 108.03 | Shut-In(2) |
| 182 | 881.33 | 109.20 | End Shut-In(2) |
| 183 | 1901.17 | 109.41 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 50.00 | Mud, w/ slight oil specks in tool | 0.25 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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FLUID SUMMARY

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ATTN: Jamie Hess

Jennifer #1
15-18s-19w Rush
Job Ticket: 041547 **DST#: 1**
Test Start: 2011.02.06 @ 17:28:00

Mud and Cushion Information

| | | | |
|-----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 10.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 4000.00 ppm | | | |
| Filter Cake: inches | | | |

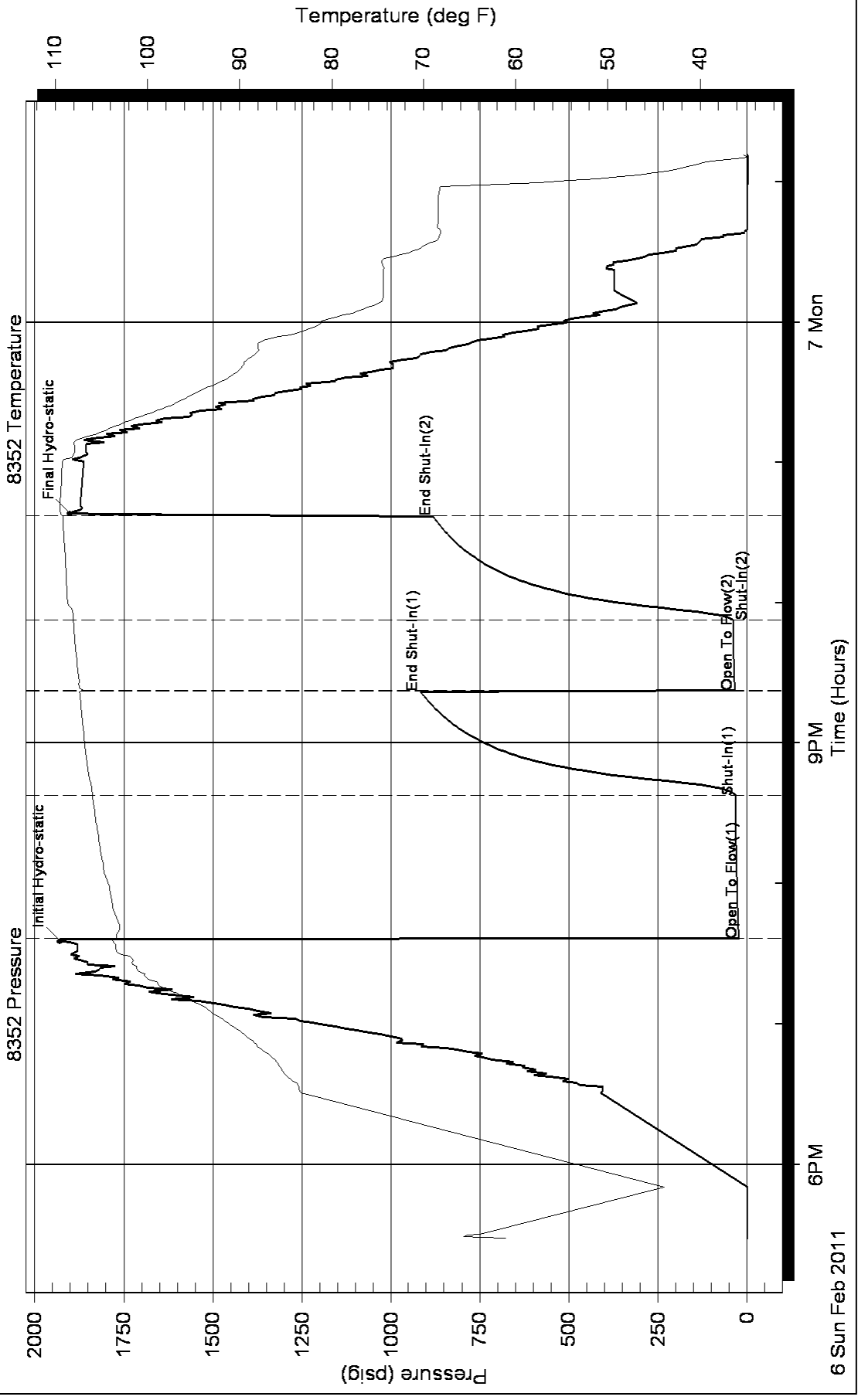
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------------|---------------|
| 50.00 | Mud, w/ slight oil specks in tool | 0.246 |

Total Length: 50.00 ft Total Volume: 0.246 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





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Hess Oil Co.
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ATTN: Jamie Hess

Jennifer #1
15-18s-19w Rush
Job Ticket: 041548 **DST#: 2**
Test Start: 2011.02.07 @ 07:05:05

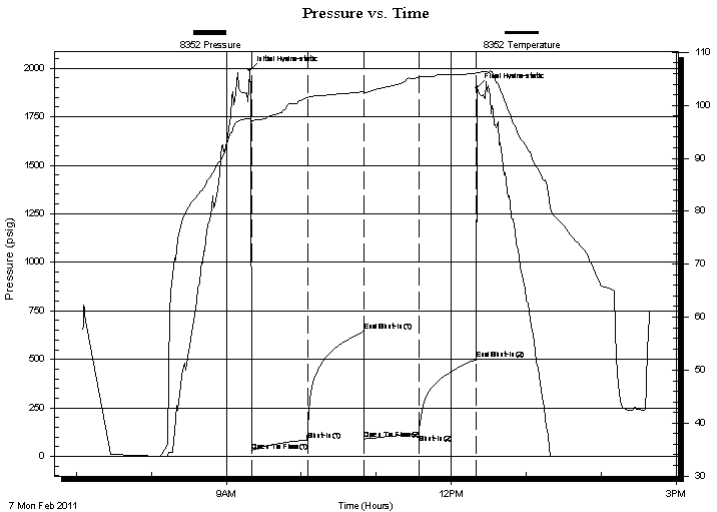
GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:20:20
Time Test Ended: 14:38:50
Interval: **3850.00 ft (KB) To 3895.00 ft (KB) (TVD)**
Total Depth: 3895.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 2035.00 ft (KB)
2030.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 Outside
Press @ Run Depth: 115.60 psig @ 3855.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.07 End Date: 2011.02.07 Last Calib.: 2011.02.07
Start Time: 07:05:05 End Time: 14:38:50 Time On Btm: 2011.02.07 @ 09:18:40
Time Off Btm: 2011.02.07 @ 12:20:39

TEST COMMENT: IF: Fair, 6 inches
IS: No Return
FF: 3 inch blow
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1988.78 | 97.57 | Initial Hydro-static |
| 2 | 27.67 | 96.97 | Open To Flow (1) |
| 47 | 83.88 | 101.46 | Shut-In(1) |
| 92 | 644.99 | 102.58 | End Shut-In(1) |
| 92 | 87.90 | 102.20 | Open To Flow (2) |
| 136 | 115.60 | 105.17 | Shut-In(2) |
| 181 | 498.74 | 106.06 | End Shut-In(2) |
| 182 | 1899.16 | 106.26 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 200.00 | SOSWM w =30% m=70% | 0.98 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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15-18s-19w Rush
Job Ticket: 041548 **DST#: 2**
Test Start: 2011.02.07 @ 07:05:05

Mud and Cushion Information

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|-----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 10.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 4000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------|---------------|
| 200.00 | SOSWM w =30% m=70% | 0.984 |

Total Length: 200.00 ft Total Volume: 0.984 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

