



DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company**

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

Start Date: 2013.01.13 @ 11:10:00

End Date: 2013.01.13 @ 16:51:00

Job Ticket #: 17403 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.01.14 @ 04:59:27



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Test Start: 2013.01.13 @ 11:10:00

GENERAL INFORMATION:

Formation: **Lansing G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:30

Time Test Ended: 16:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3372.00 ft (KB) To 3382.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3382.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 70.92 psia @ 3380.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.13

End Date: 2013.01.13

Last Calib.: 2013.01.14

Start Time: 11:10:00

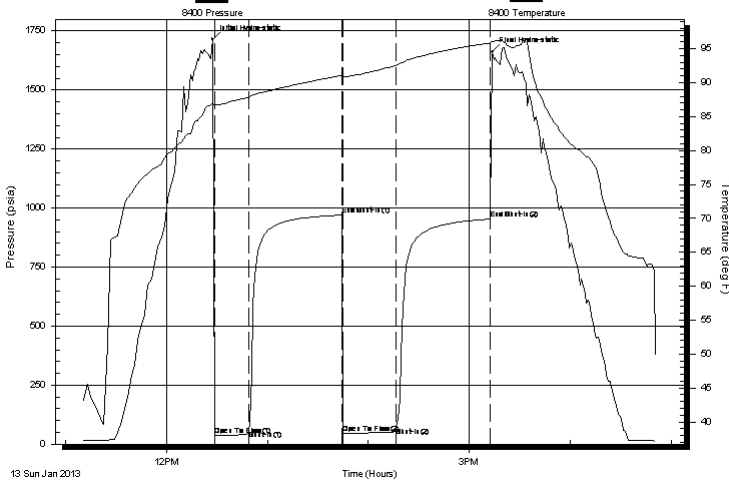
End Time: 16:51:00

Time On Btm: 2013.01.13 @ 12:27:30

Time Off Btm: 2013.01.13 @ 15:13:30

TEST COMMENT: 1st Open 15 minutes Weak blow blew 1 inch.
1st Shut in 60 minutes No blow back
2nd Open 30 minutes Fair blow blew 4 inches.
2nd Shut in 60 minutes No blow back.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1715.36 | 86.93 | Initial Hydro-static |
| 1 | 37.23 | 86.67 | Open To Flow (1) |
| 22 | 59.29 | 87.87 | Shut-In(1) |
| 77 | 970.90 | 91.05 | End Shut-In(1) |
| 78 | 44.08 | 90.83 | Open To Flow (2) |
| 109 | 70.92 | 92.58 | Shut-In(2) |
| 165 | 953.50 | 95.86 | End Shut-In(2) |
| 166 | 1661.38 | 96.04 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 12.00 | Muddy water Mud 90% Water 10% | 0.17 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2013.01.13 @ 11:10:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3372.00 ft | Diameter: 3.80 inches | Volume: 47.30 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 51000.00 lb |
| | | | <u>Total Volume: 47.30 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial 51000.00 lb |
| Depth to Top Packer: | 3372.00 ft | | | Final 51000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 11.00 ft | | | |
| Tool Length: | 39.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|---------------------------|--------------|------|---------|---------|-------------------------------|
| Shut-In Tool | 5.00 | | | 3349.00 | |
| Hydraulic Tool | 5.00 | | | 3354.00 | |
| Safety Joint | 2.00 | | | 3356.00 | |
| Jars | 6.00 | | | 3362.00 | |
| Packer | 5.00 | | | 3367.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3372.00 | |
| Anchor | 6.00 | | | 3378.00 | |
| Recorder | 1.00 | 8405 | Inside | 3379.00 | |
| Recorder | 1.00 | 8400 | Outside | 3380.00 | |
| Bullnose | 3.00 | | | 3383.00 | 11.00 Bottom Packers & Anchor |
| Total Tool Length: | 39.00 | | | | |



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FLUID SUMMARY

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Test Start: 2013.01.13 @ 11:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.40 in³

Resistivity: ohm.m

Salinity: 8200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 12.00 | Muddy water Mud 90% Water 10% | 0.168 |

Total Length: 12.00 ft Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

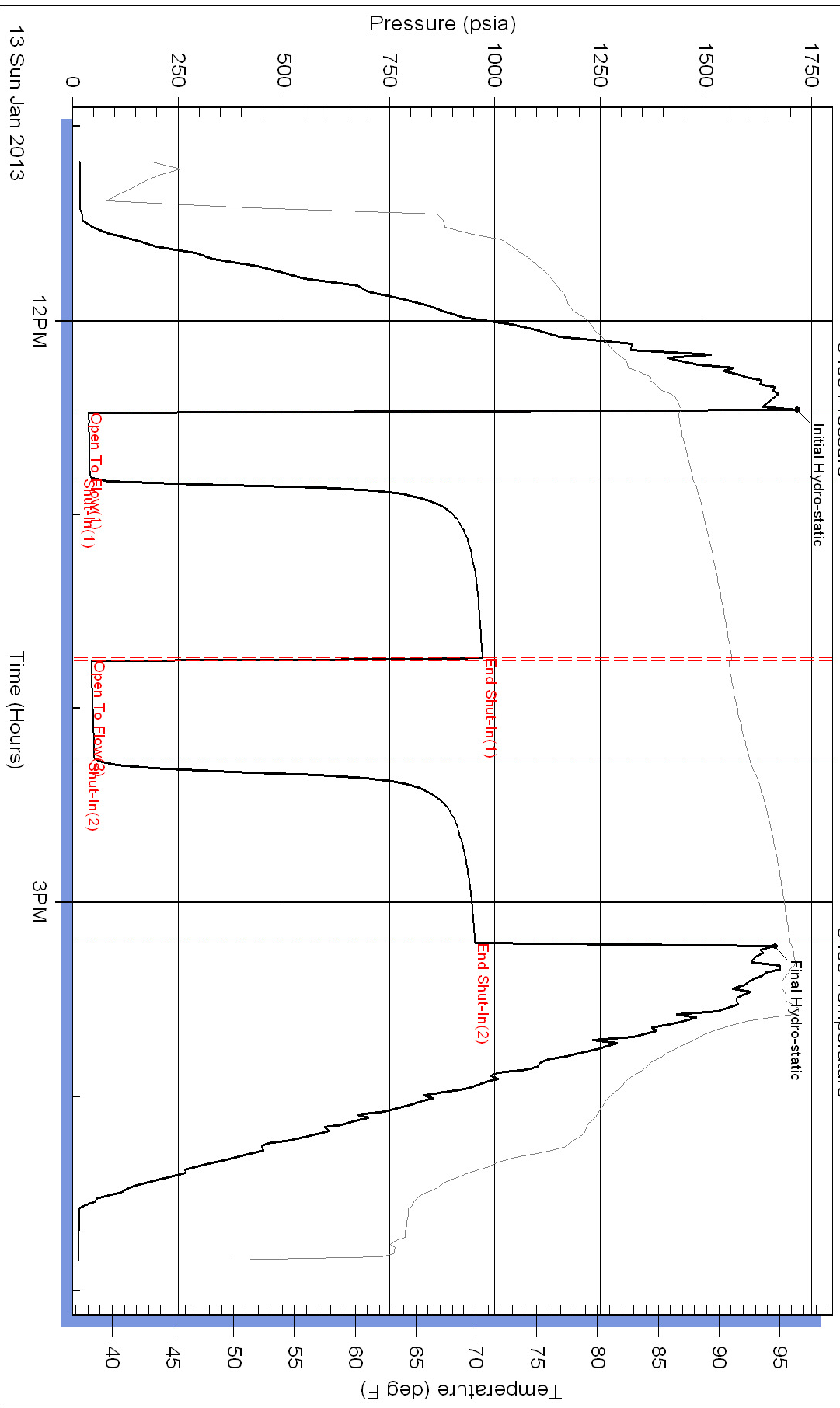
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

