



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Deines #1-22

22-19s-15w Baton

Start Date: 2012.03.13 @ 06:48:00

End Date: 2012.03.13 @ 00:00:00

Job Ticket #: 18750 DST #: 2

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

Printed: 2012.03.13 @ 13:16:11

F.G. Holl Company L.L.C
22-19s-15w Baton
Deines #1-22
DST # 2
LKC "1"
2012.03.13



DRILL STEM TEST REPORT

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DST#: 2

Test Start: 2012.03.13 @ 06:48:00

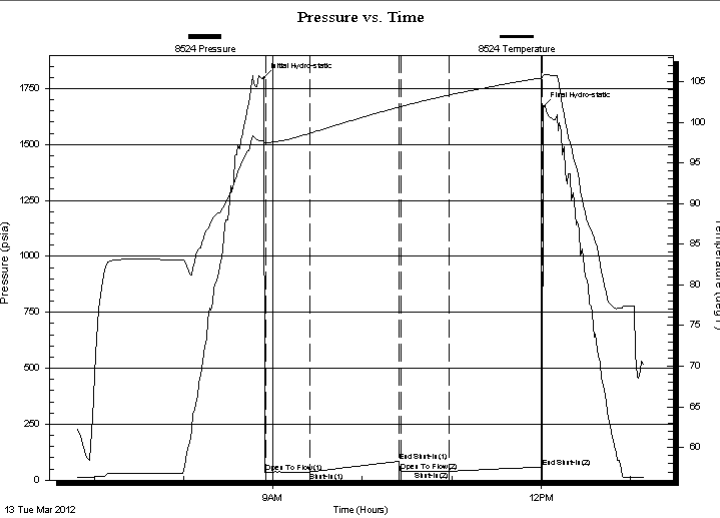
GENERAL INFORMATION:

Formation: **LKC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:46:00
 Time Test Ended: 00:00:00
 Interval: **3414.00 ft (KB) To 3430.00 ft (KB) (TVD)**
 Total Depth: 3430.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-GB-20
 Reference Elevations: 1934.00 ft (KB)
 1926.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524

Press @ RunDepth: 58.12 psia @ ft (KB) Capacity: psia
 Start Date: 2012.03.13 End Date: 2012.03.13 Last Calib.: 1899.12.30
 Start Time: 06:48:00 End Time: 13:10:00 Time On Btm: 2012.03.13 @ 08:54:00
 Time Off Btm: 2012.03.13 @ 12:01:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3/4 inch into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1/2 inch into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1797.61 | 97.73 | Initial Hydro-static |
| 1 | 36.34 | 97.45 | Open To Flow (1) |
| 31 | 36.96 | 98.64 | Shut-In(1) |
| 91 | 84.47 | 101.85 | End Shut-In(1) |
| 92 | 39.85 | 101.91 | Open To Flow (2) |
| 125 | 39.96 | 103.34 | Shut-In(2) |
| 187 | 58.12 | 105.44 | End Shut-In(2) |
| 188 | 1666.76 | 105.77 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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Job Ticket: 18750

DST#: 2

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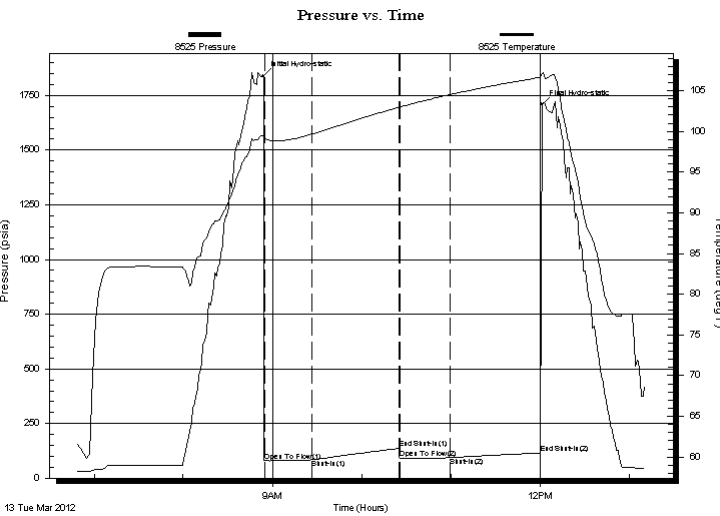
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 Total Depth: 3430.00 ft (KB) (TVD)
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 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-GB-20
 Reference Elevations: 1934.00 ft (KB)
 1926.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8525

Press @ RunDepth: 115.33 psia @ ft (KB) Capacity: psia
 Start Date: 2012.03.13 End Date: 2012.03.13 Last Calib.: 1899.12.30
 Start Time: 06:48:00 End Time: 13:10:30 Time On Btm: 2012.03.13 @ 08:54:00
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 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1840.59 | 99.44 | Initial Hydro-static |
| 1 | 79.14 | 99.09 | Open To Flow (1) |
| 33 | 83.78 | 99.65 | Shut-In(1) |
| 91 | 136.23 | 102.94 | End Shut-In(1) |
| 92 | 90.67 | 103.00 | Open To Flow (2) |
| 126 | 93.94 | 104.51 | Shut-In(2) |
| 187 | 115.33 | 106.64 | End Shut-In(2) |
| 188 | 1709.51 | 107.06 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18750

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.03.13 @ 06:48:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3390.00 ft | Diameter: 3.80 inches | Volume: 47.55 bbl | Tool Weight: 1000.00 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: 50000.00 lb |
| | | | <u>Total Volume: 47.55 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 4.00 ft | | | String Weight: Initial 38000.00 lb |
| Depth to Top Packer: | 3414.00 ft | | | Final 38000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 16.00 ft | | | |
| Tool Length: | 44.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| SHut-InTool | 5.00 | | Inside | 3391.00 | |
| Hydraulic Tool | 5.00 | | | 3396.00 | |
| Jars | 6.00 | | | 3402.00 | |
| Safety Joint | 2.00 | | | 3404.00 | |
| Packer | 5.00 | | | 3409.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3414.00 | |
| Anchor | 11.00 | | | 3425.00 | |
| Recorder | 1.00 | 8524 | Inside | 3426.00 | |
| Recorder | 1.00 | 8525 | Outside | 3427.00 | |
| Bullnose | 3.00 | | | 3430.00 | 16.00 Bottom Packers & Anchor |
| Total Tool Length: | 44.00 | | | | |



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------|----------------|
| | | |

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

