



DRILL STEM TEST REPORT

Prepared For: **Captiva II L.L.C**

445 Union Blvd Suite 208 Lakewood CO 80228

ATTN: Bruce Ard

7-22s-16w Pawnee

Eakin #6-7

Start Date: 2011.11.24 @ 10:37:00

End Date: 2011.11.24 @ 17:48:00

Job Ticket #: 18661 DST #: 3

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

Printed: 2011.11.24 @ 18:05:48



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Job Ticket: 18661

DST#: 3

ATTN: Bruce Ard

Test Start: 2011.11.24 @ 10:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:30

Time Test Ended: 17:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-60

Interval: 3905.00 ft (KB) To 3915.00 ft (KB) (TVD)

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3915.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8419

Press @ RunDepth: 86.89 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.11.24

End Date:

2011.11.24

Last Calib.:

2011.11.24

Start Time: 10:37:00

End Time:

17:48:00

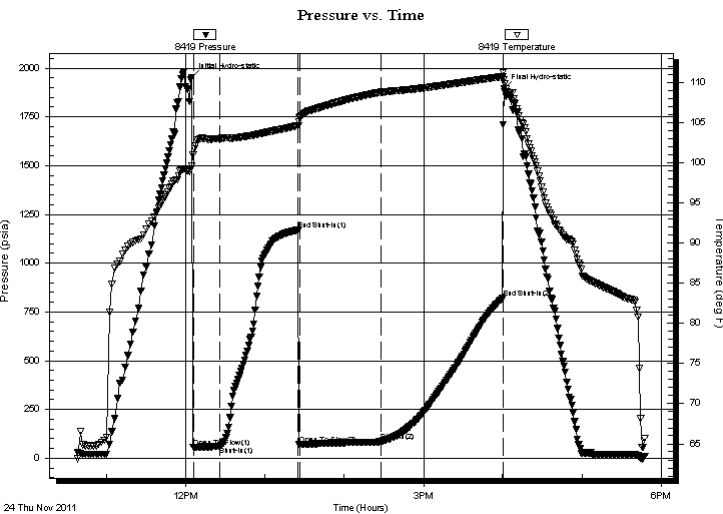
Time On Btm:

2011.11.24 @ 12:04:30

Time Off Btm:

2011.11.24 @ 16:01:00

TEST COMMENT: 1st Opening 20 Minutes-Weak building blow built 2 inches into water in 20 minutes
 1st Shut-in 60 Minutes-Very weak surface blow
 2nd Opening 60 Minutes-Weak building blow built 4 inches into water in 60 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1952.69 | 99.58 | Initial Hydro-static |
| 1 | 54.98 | 101.03 | Open To Flow (1) |
| 21 | 61.36 | 103.03 | Shut-In(1) |
| 81 | 1168.95 | 104.63 | End Shut-In(1) |
| 82 | 70.53 | 105.55 | Open To Flow (2) |
| 144 | 86.89 | 108.78 | Shut-In(2) |
| 236 | 821.37 | 110.75 | End Shut-In(2) |
| 237 | 1894.52 | 110.35 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 3.00 | clean oil | 0.01 |
| 70.00 | muddy oil 30%oil 70%mud | 0.34 |
| | | |
| | | |
| | | |

Gas Rates

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



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Reference Elevations: 2017.00 ft (KB)

Total Depth: 3915.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8524

Press @ Run Depth: 824.49 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.11.24

End Date:

2011.11.24

Last Calib.:

2011.11.24

Start Time: 10:37:00

End Time:

17:48:00

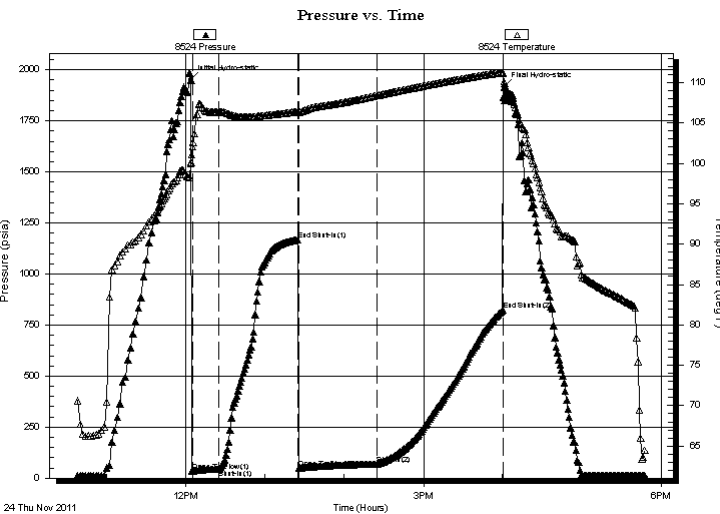
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 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1950.00 | 100.12 | Initial Hydro-static |
| 1 | 35.29 | 102.02 | Open To Flow (1) |
| 21 | 45.00 | 106.39 | Shut-In(1) |
| 81 | 1167.07 | 106.40 | End Shut-In(1) |
| 82 | 50.22 | 106.25 | Open To Flow (2) |
| 141 | 68.48 | 108.41 | Shut-In(2) |
| 236 | 824.49 | 111.26 | End Shut-In(2) |
| 237 | 1915.13 | 110.16 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 3.00 | clean oil | 0.01 |
| 70.00 | muddy oil 30%oil 70%mud | 0.34 |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva II L.L.C

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7-22s-16w Pawnee

Job Ticket: 18661

DST#: 3

ATTN: Bruce Ard

Test Start: 2011.11.24 @ 10:37:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3673.00 ft | Diameter: 3.80 inches | Volume: 51.52 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: 210.00 ft | Diameter: 2.25 inches | Volume: 1.03 bbl | Weight to Pull Loose: 78000.00 lb |
| | | | <u>Total Volume: 52.55 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 6.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 3905.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 10.00 ft | | | |
| Tool Length: | 38.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments: Ruined packer

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| SHut-InTool | 5.00 | | Inside | 3882.00 | |
| Hydraulic Tool | 5.00 | | | 3887.00 | |
| Jars | 6.00 | | | 3893.00 | |
| Safety Joint | 2.00 | | | 3895.00 | |
| Packer | 5.00 | | | 3900.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3905.00 | |
| Anchor | 5.00 | | | 3910.00 | |
| Recorder | 1.00 | 8419 | Inside | 3911.00 | |
| Recorder | 1.00 | 8524 | Outside | 3912.00 | |
| Bullnose | 3.00 | | | 3915.00 | 10.00 Bottom Packers & Anchor |
| Total Tool Length: | 38.00 | | | | |



DRILL STEM TEST REPORT

FLUID SUMMARY

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ATTN: Bruce Ard

Test Start: 2011.11.24 @ 10:37:00

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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------|---------------|
| 3.00 | clean oil | 0.015 |
| 70.00 | muddy oil 30%oil 70%mud | 0.344 |

Total Length: 73.00 ft Total Volume: 0.359 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Ruined packer

