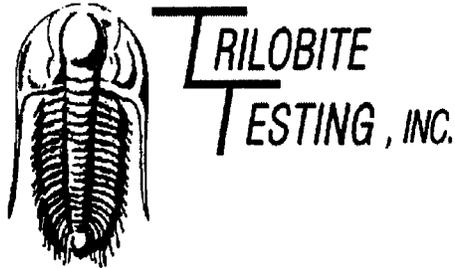


15-065-22868

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DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Mike Davignon

25-7-21-Graham-Ks

Alexander #1

Start Date: 2003.01.06 @ 14:36:37

End Date: 2003.01.06 @ 20:00:37

Job Ticket #: 16818 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16818

DST#: 1

ATTN: Mike Davignon

Test Start: 2003.01.06 @ 14:36:37

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:07

Time Test Ended: 20:00:37

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3195.00 ft (KB) To 3210.00 ft (KB) (TVD)**

Total Depth: 3210.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 534.59 psig @ 3196.00 ft (KB)

Start Date: 2003.01.06

End Date:

2003.01.06

Start Time: 14:36:42

End Time:

20:00:36

Capacity: 7000.00 psig

Last Calib.: 2003.01.06

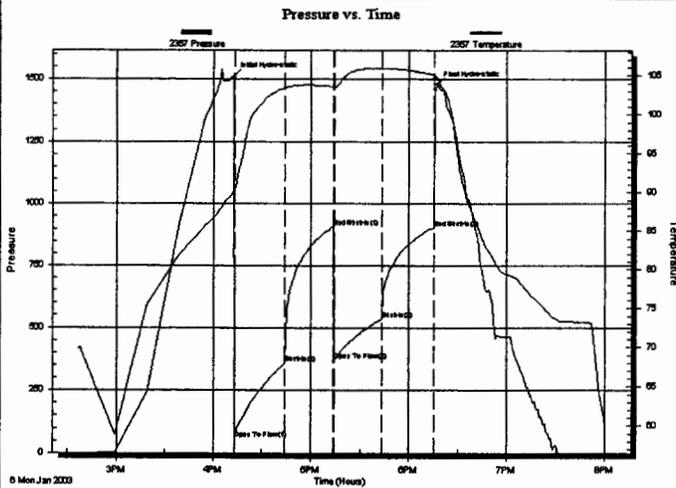
Time On Btm: 2003.01.06 @ 16:12:37

Time Off Btm: 2003.01.06 @ 18:17:07

TEST COMMENT: F- Strong BOB in 1.5 min

FF- Strong BOB in 3 min

Times-30-30-30-30



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1510.35 | 90.28 | Initial Hydro-static |
| 1 | 58.18 | 90.43 | Open To Flow (1) |
| 32 | 357.11 | 103.43 | Shut-In (1) |
| 61 | 907.27 | 103.59 | End Shut-In (1) |
| 62 | 370.58 | 103.54 | Open To Flow (2) |
| 91 | 534.59 | 105.90 | Shut-In (2) |
| 123 | 903.87 | 105.17 | End Shut-In (2) |
| 125 | 1478.65 | 104.78 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 1175.00 | Mdy Wtr 90%w 10%m | 15.35 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16818

DST#: 1

ATTN: Mike Davignon

Test Start: 2003.01.06 @ 14:36:37

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3060.00 ft | Diameter: 3.80 inches | Volume: 42.92 bbl | Tool Weight: 1100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 124.00 ft | Diameter: 2.25 inches | Volume: 0.61 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 43.53 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 10.00 ft | | | String Weight: Initial 40000.00 lb |
| Depth to Top Packer: | 3195.00 ft | | | Final 44000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 15.00 ft | | | |
| Tool Length: | 36.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3175.00 | |
| S.I. Tool | 5.00 | | | 3180.00 | |
| HMV | 5.00 | | | 3185.00 | |
| Packer | 5.00 | | | 3190.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3195.00 | |
| Stubb | 1.00 | | | 3196.00 | |
| Recorder | 0.00 | 2357 | Inside | 3196.00 | |
| Perforations | 11.00 | | | 3207.00 | |
| Recorder | 0.00 | 13254 | Outside | 3207.00 | |
| Bullnose | 3.00 | | | 3210.00 | 15.00 Bottom Packers & Anchor |
| Total Tool Length: | 36.00 | | | | |



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16818 **DST#: 1**

ATTN: Mike Davignon

Test Start: 2003.01.06 @ 14:36:37

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:

32000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 1175.00 | Mdy Wtr 90%w 10%m | 15.353 |

Total Length: 1175.00 ft Total Volume: 15.353 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .21 @ 72.2 = 32000ppm

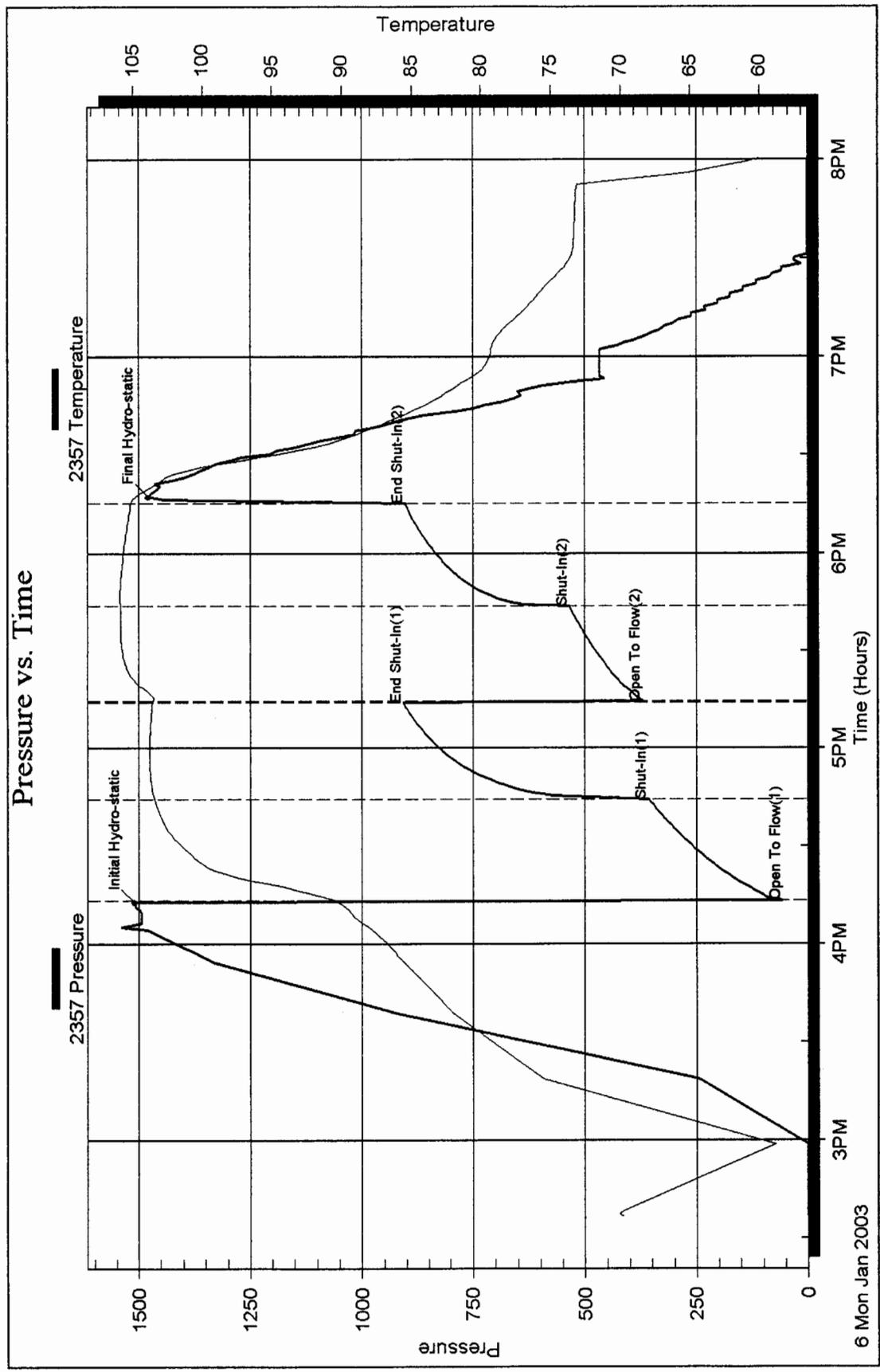
Serial #: 2357

Inside

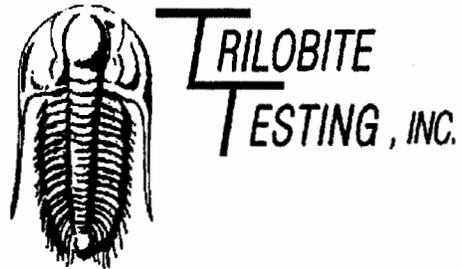
Great Eastern Energy

25-7-21-Graham-Ks

DST Test Number: 1



6 Mon Jan 2003



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Mike Davignon

25-7-21-Graham-Ks

Alexander #1

Start Date: 2003.01.07 @ 03:38:50

End Date: 2003.01.07 @ 08:27:20

Job Ticket #: 16819 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16819

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.01.07 @ 03:38:50

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:50

Time Test Ended: 08:27:20

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3245.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Reference Elevations: 2062.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

2057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 2357 Inside

Press@RunDepth: 36.89 psig @ 3246.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.01.07

End Date:

2003.01.07

Last Calib.: 2003.01.07

Start Time: 03:38:55

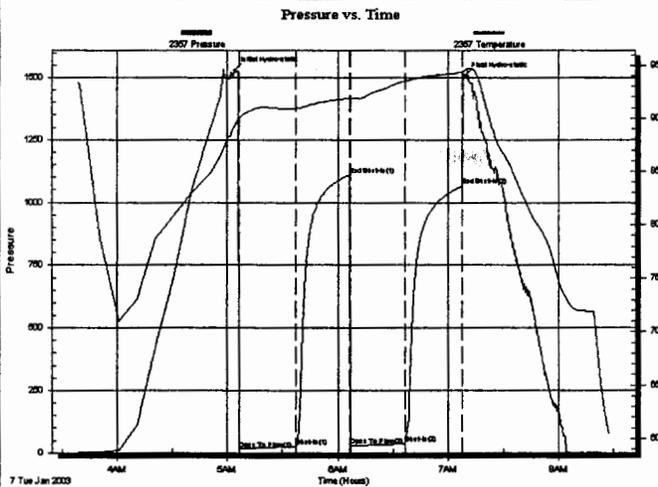
End Time:

08:27:19

Time On Btm: 2003.01.07 @ 05:04:20

Time Off Btm: 2003.01.07 @ 07:08:50

TEST COMMENT: IF-Weak steady surface blow
FF-Weak steady surface blow
Times-30-30-30-30



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1529.62 | 89.20 | Initial Hydro-static |
| 3 | 16.22 | 89.99 | Open To Flow (1) |
| 33 | 27.06 | 90.92 | Shut-In (1) |
| 62 | 1109.83 | 91.90 | End Shut-In (1) |
| 63 | 28.22 | 91.91 | Open To Flow (2) |
| 92 | 36.89 | 93.50 | Shut-In (2) |
| 123 | 1064.79 | 94.38 | End Shut-In (2) |
| 125 | 1508.41 | 94.52 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 20.00 | DM | 0.10 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16819

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.01.07 @ 03:38:50

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3120.00 ft | Diameter: 3.80 inches | Volume: 43.77 bbl | Tool Weight: 1800.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 124.00 ft | Diameter: 2.25 inches | Volume: 0.61 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 44.38 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 40000.00 lb |
| Depth to Top Packer: | 3245.00 ft | | | Final 40000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 35.00 ft | | | |
| Tool Length: | 56.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3225.00 | |
| S.I. Tool | 5.00 | | | 3230.00 | |
| HMV | 5.00 | | | 3235.00 | |
| Packer | 5.00 | | | 3240.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3245.00 | |
| Stubb | 1.00 | | | 3246.00 | |
| Recorder | 0.00 | 2357 | Inside | 3246.00 | |
| Perforations | 31.00 | | | 3277.00 | |
| Recorder | 0.00 | 13254 | Outside | 3277.00 | |
| Bullnose | 3.00 | | | 3280.00 | 35.00 Bottom Packers & Anchor |
| Total Tool Length: | 56.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16819

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.01.07 @ 03:38:50

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: 51.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.39 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 900.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 20.00 | DM | 0.098 |

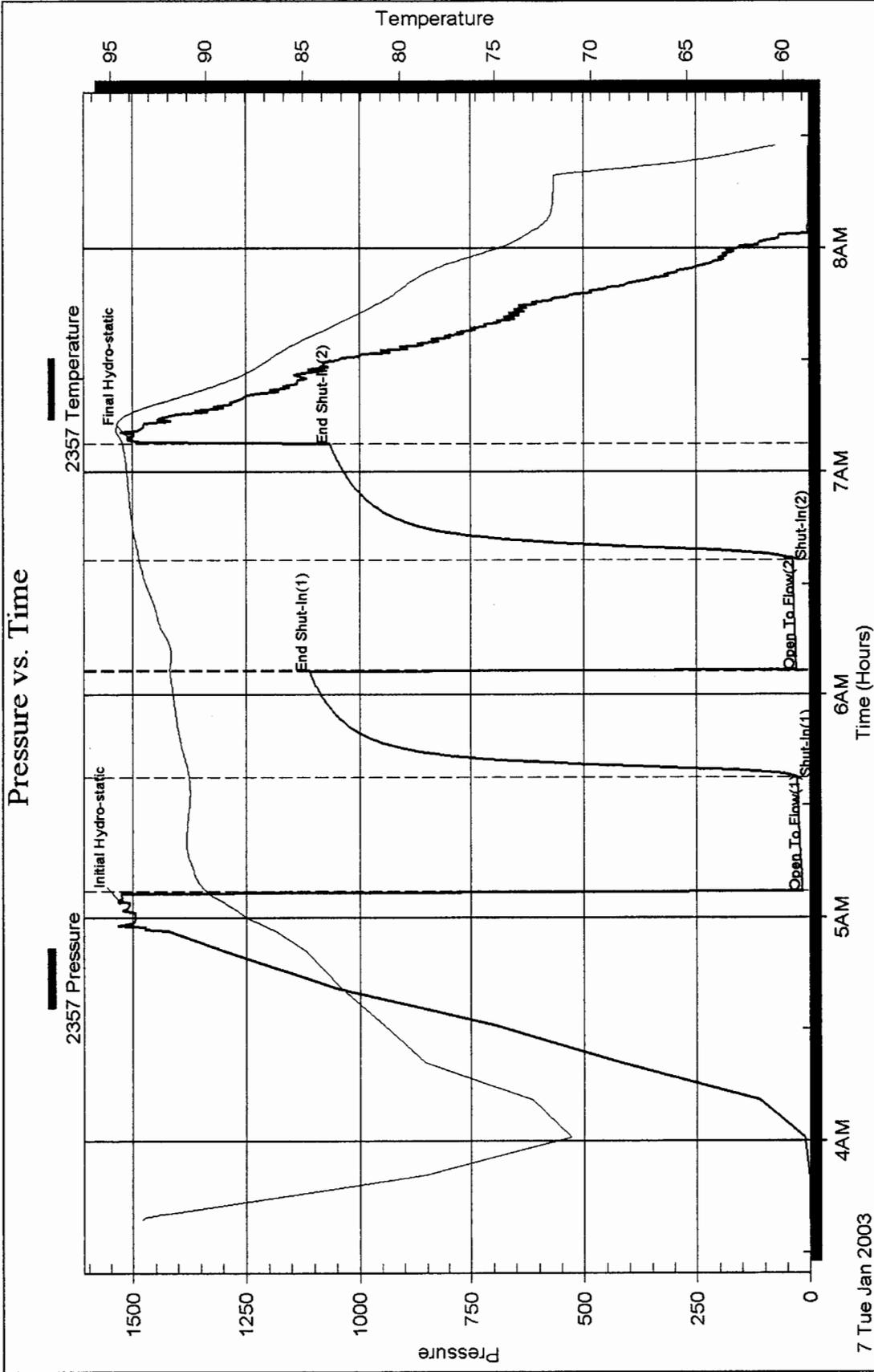
Total Length: 20.00 ft Total Volume: 0.098 bbl

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

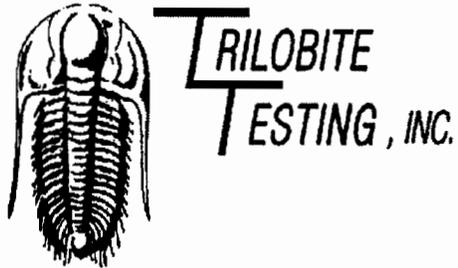
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



7 Tue Jan 2003



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Mike Davignon

25-7-21-Graham-Ks

Alexander #1

Start Date: 2003.01.07 @ 16:33:55

End Date: 2003.01.07 @ 23:50:25

Job Ticket #: 16820 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Great Eastern Energy

Alexander #1

25-7-21-Graham-Ks

DST # 3

C

LKC

2003.01.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16820

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.01.07 @ 16:33:55

GENERAL INFORMATION:

Formation: 'C' LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:02:25

Time Test Ended: 23:50:25

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3315.00 ft (KB) To 3335.00 ft (KB) (TVD)

Total Depth: 3335.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 683.33 psig @ 3316.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.01.07

End Date: 2003.01.07

Last Calib.: 2003.01.08

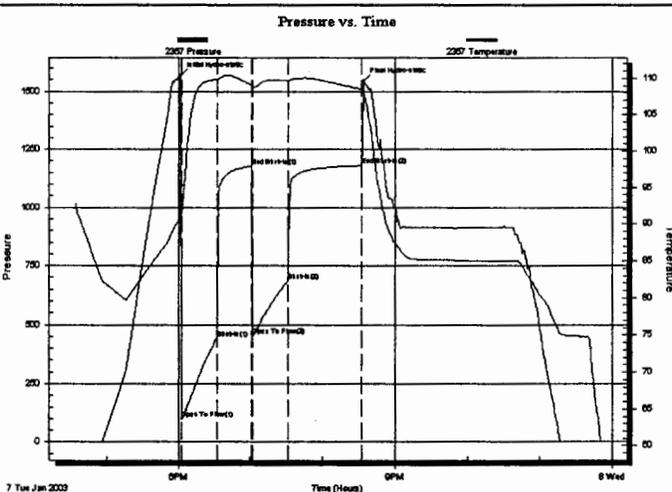
Start Time: 16:34:00

End Time: 23:50:24

Time On Btm: 2003.01.07 @ 18:01:25

Time Off Btm: 2003.01.07 @ 20:33:55

TEST COMMENT: F-Strong BOB in 1 min
IS-Strong BOB in 20 min
FF-Strong BOB in 1.5 min
FS-Weak building to 6"



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1568.71 | 91.23 | Initial Hydro-static |
| 1 | 99.92 | 91.58 | Open To Flow (1) |
| 31 | 442.78 | 109.82 | Shut-In(1) |
| 60 | 1177.78 | 109.00 | End Shut-In(1) |
| 61 | 455.22 | 108.94 | Open To Flow (2) |
| 90 | 683.33 | 109.67 | Shut-In(2) |
| 151 | 1180.04 | 108.53 | End Shut-In(2) |
| 153 | 1544.96 | 108.09 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 124.00 | MCGsyO 20%g 70%o 10%m | 0.61 |
| 2093.00 | CGsyO 20%g 80%o | 29.36 |
| 1140.00 | GIP | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16820 **DST#: 3**

ATTN: Mike Davignon

Test Start: 2003.01.07 @ 16:33:55

Tool Information

| | | | | |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3182.00 ft | Diameter: 3.80 inches | Volume: 44.64 bbl | Tool Weight: 1400.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 124.00 ft | Diameter: 2.25 inches | Volume: 0.61 bbl | Weight to Pull Loose: 50000.00 lb |
| | | Total Volume: 45.25 bbl | | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 12.00 ft | | | String Weight: Initial 41000.00 lb |
| Depth to Top Packer: | 3315.00 ft | | | Final 45000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 20.00 ft | | | |
| Tool Length: | 41.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|------------------------------------|
| C.O. Sub | 1.00 | | | 3295.00 | |
| S.I. Tool | 5.00 | | | 3300.00 | |
| HMV | 5.00 | | | 3305.00 | |
| Packer | 5.00 | | | 3310.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3315.00 | |
| Stubb | 1.00 | | | 3316.00 | |
| Recorder | 0.00 | 2357 | Inside | 3316.00 | |
| Perforations | 16.00 | | | 3332.00 | |
| Recorder | 0.00 | 13254 | Outside | 3332.00 | |
| Bullnose | 3.00 | | | 3335.00 | 20.00 Bottom Packers & Anchor |
| Total Tool Length: | 41.00 | | | | |



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16820

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.01.07 @ 16:33:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 124.00 | MCGsyO 20%g 70%o 10%m | 0.610 |
| 2093.00 | CGsyO 20%g 80%o | 29.359 |
| 1140.00 | GIP | |

Total Length: 3357.00 ft

Total Volume: 29.969 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

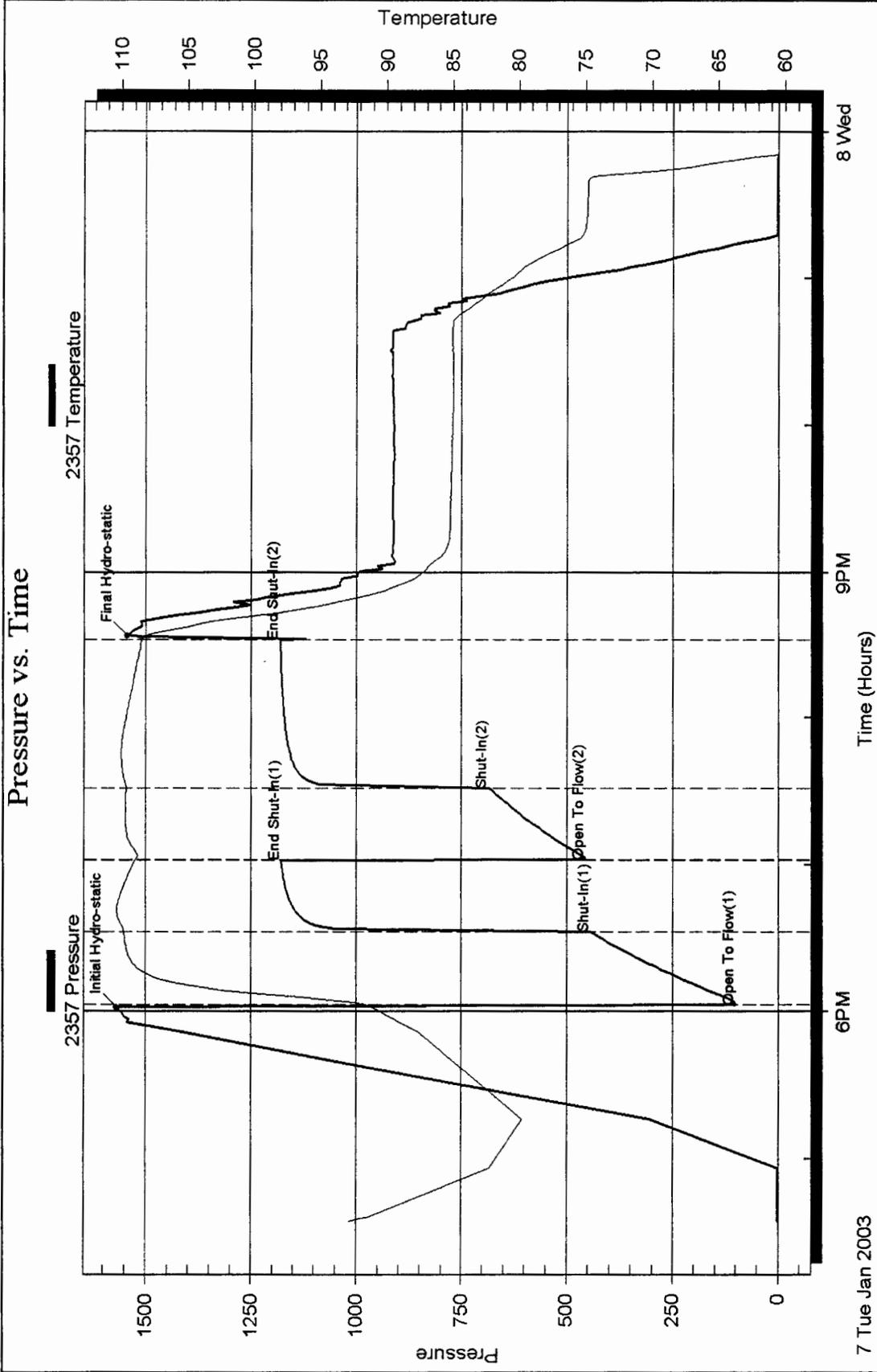
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Mike Davignon

25-7-21-Graham-Ks

Alexander #1

Start Date: 2003.01.08 @ 05:50:42

End Date: 2003.01.08 @ 11:59:42

Job Ticket #: 16821 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16821

DST#: 4

ATTN: Mike Davignon

Test Start: 2003.01.08 @ 05:50:42

GENERAL INFORMATION:

Formation: 'D' LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:30:42

Time Test Ended: 11:59:42

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3335.00 ft (KB) To 3357.00 ft (KB) (TVD)

Reference Elevations: 2062.00 ft (KB)

Total Depth: 3357.00 ft (KB) (TVD)

2057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 108.89 psig @ 3336.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.01.08

End Date: 2003.01.08

Last Calib.: 1899.12.30

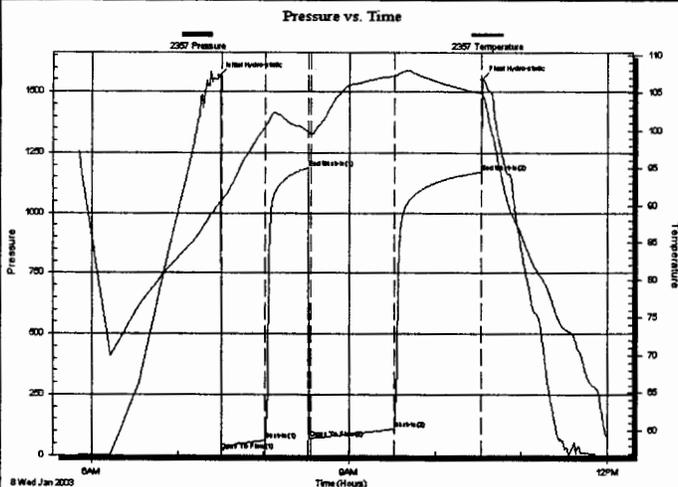
Start Time: 05:50:47

End Time: 11:59:41

Time On Btm: 2003.01.08 @ 07:28:42

Time Off Btm: 2003.01.08 @ 10:32:12

TEST COMMENT: F- Weak building to 6" fair blow
FF-Strong BOB in 35 min
Times-30-30-60-60



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1564.87 | 90.19 | Initial Hydro-static |
| 2 | 17.12 | 90.67 | Open To Flow (1) |
| 33 | 62.60 | 100.48 | Shut-In(1) |
| 63 | 1188.92 | 99.80 | End Shut-In(1) |
| 65 | 69.87 | 99.47 | Open To Flow (2) |
| 123 | 108.89 | 107.25 | Shut-In(2) |
| 183 | 1172.17 | 104.97 | End Shut-In(2) |
| 184 | 1550.49 | 104.96 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 180.00 | MCGSYO 10%G 80%O 10% m | 1.40 |
| 77.00 | CGSYO 10%G 90%O | 1.08 |
| 535.00 | GIP | 7.50 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16821

DST#: 4

ATTN: Mike Davignon

Test Start: 2003.01.08 @ 05:50:42

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3213.00 ft | Diameter: 3.80 inches | Volume: 45.07 bbl | Tool Weight: 1400.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 124.00 ft | Diameter: 2.25 inches | Volume: 0.61 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 45.68 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 41000.00 lb |
| Depth to Top Packer: | 3335.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 22.00 ft | | | |
| Tool Length: | 43.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3315.00 | |
| S.I. Tool | 5.00 | | | 3320.00 | |
| HMV | 5.00 | | | 3325.00 | |
| Packer | 5.00 | | | 3330.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3335.00 | |
| Stubb | 1.00 | | | 3336.00 | |
| Recorder | 0.00 | 2357 | Inside | 3336.00 | |
| Perforations | 18.00 | | | 3354.00 | |
| Recorder | 0.00 | 13254 | Outside | 3354.00 | |
| Bullnose | 3.00 | | | 3357.00 | 22.00 Bottom Packers & Anchor |
| Total Tool Length: | 43.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16821

DST#: 4

ATTN: Mike Davignon

Test Start: 2003.01.08 @ 05:50:42

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: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 180.00 | MGSYO 10%G 80%o 10%m | 1.395 |
| 77.00 | CGSYO 10%G 90%O | 1.080 |
| 535.00 | GIP | 7.505 |

Total Length: 792.00 ft

Total Volume: 9.980 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

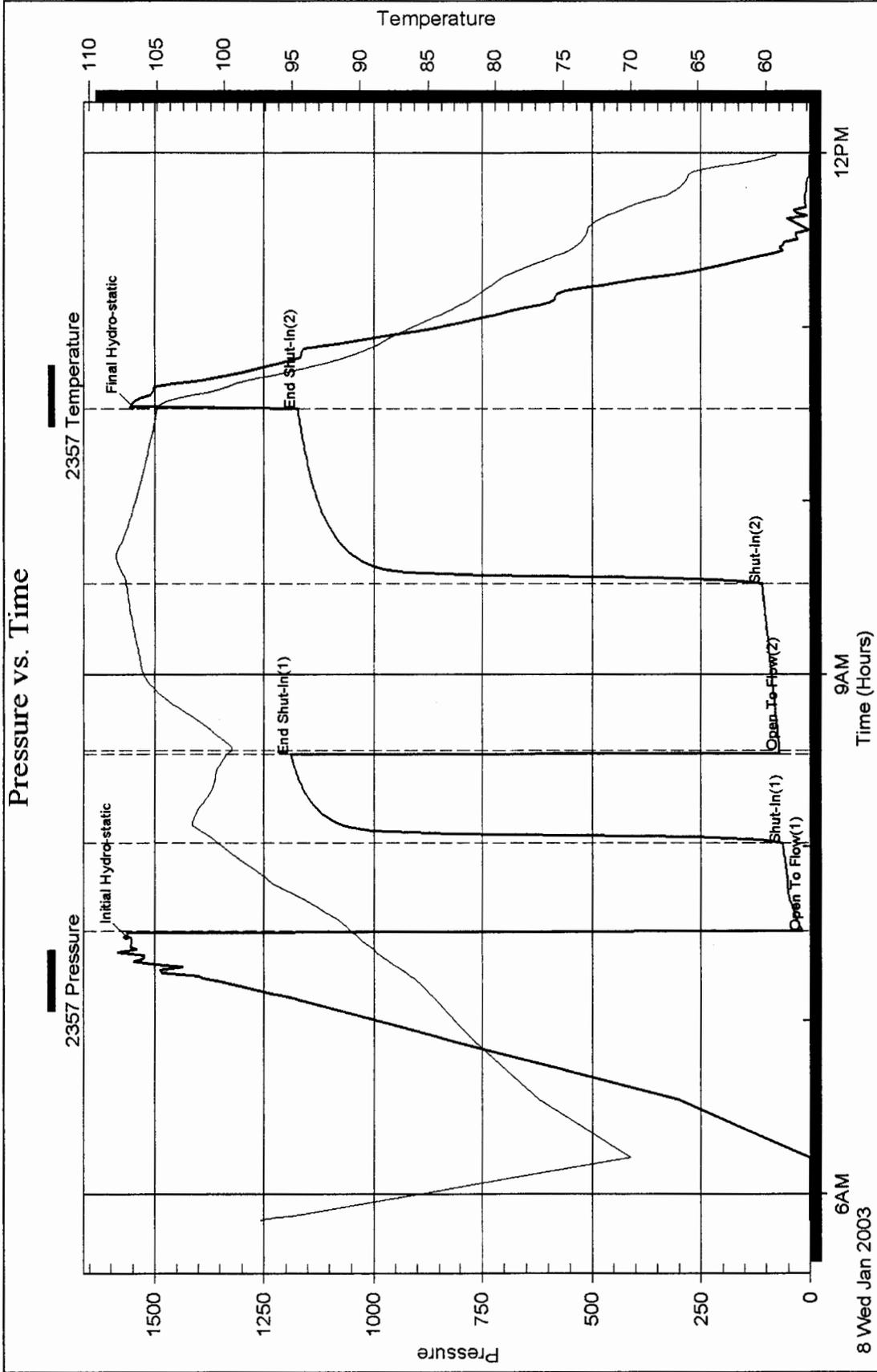
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

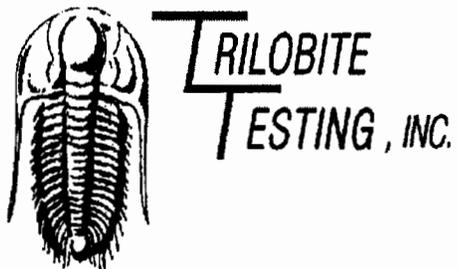
Pressure vs. Time



8 Wed Jan 2003 6AM

9AM 12PM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Mike Davignon

25-7-21-Graham-Ks

Alexander #1

Start Date: 2003.01.08 @ 18:18:30

End Date: 2003.01.09 @ 00:08:00

Job Ticket #: 16822 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Great Eastern Energy
 Box 150
 Bogue, KS 67625
 ATTN: Mike Davignon

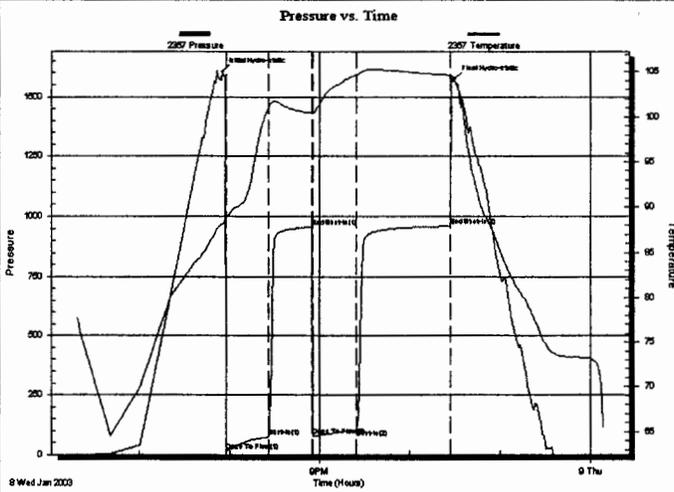
Alexander #1
25-7-21-Graham-Ks
 Job Ticket: 16822 DST#: 5
 Test Start: 2003.01.08 @ 18:18:30

GENERAL INFORMATION:

Formation: 'F' LKC
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 19:58:00
 Tester: Dan Bangle
 Time Test Ended: 00:08:00
 Unit No: 21
 Interval: 3362.00 ft (KB) To 3372.00 ft (KB) (TVD)
 Reference Elevations: 2062.00 ft (KB)
 Total Depth: 3372.00 ft (KB) (TVD) 2057.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 2357 Inside
 Press@RunDepth: 104.96 psig @ 3363.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2003.01.08 End Date: 2003.01.09 Last Calib.: 2003.01.09
 Start Time: 18:18:35 End Time: 00:07:59 Time On Btm: 2003.01.08 @ 19:55:30
 Time Off Btm: 2003.01.08 @ 22:30:00

TEST COMMENT: IF-Weak building to 7" fair blow
 FF-Weak building to 6" fair blow
 Times-30-30-30-60



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1605.54 | 88.14 | Initial Hydro-static |
| 3 | 16.70 | 88.83 | Open To Flow (1) |
| 31 | 75.24 | 100.97 | Shut-In(1) |
| 60 | 956.50 | 100.43 | End Shut-In(1) |
| 61 | 78.89 | 100.43 | Open To Flow(2) |
| 90 | 104.96 | 104.71 | Shut-In(2) |
| 152 | 959.20 | 104.65 | End Shut-In(2) |
| 155 | 1574.14 | 104.19 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 124.00 | Mdy Wtr | 0.61 |
| 62.00 | MCO 80%o 20%m | 0.87 |
| 62.00 | CGsyO 10%g 90%o | 0.87 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16822 **DST#: 5**

ATTN: Mike Davignon

Test Start: 2003.01.08 @ 18:18:30

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3245.00 ft | Diameter: 3.80 inches | Volume: 45.52 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: 25000.00 lb |
| Drill Collar: | Length: 124.00 ft | Diameter: 2.25 inches | Volume: 0.61 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 46.13 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial 41000.00 lb |
| Depth to Top Packer: | 3362.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 10.00 ft | | | |
| Tool Length: | 31.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|------------------------------------|
| C.O. Sub | 1.00 | | | 3342.00 | |
| S.I. Tool | 5.00 | | | 3347.00 | |
| HMV | 5.00 | | | 3352.00 | |
| Packer | 5.00 | | | 3357.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3362.00 | |
| Stubb | 1.00 | | | 3363.00 | |
| Recorder | 0.00 | 2357 | Inside | 3363.00 | |
| Perforations | 6.00 | | | 3369.00 | |
| Recorder | 0.00 | 13254 | Outside | 3369.00 | |
| Bullnose | 3.00 | | | 3372.00 | 10.00 Bottom Packers & Anchor |
| Total Tool Length: | 31.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 16822

DST#: 5

ATTN: Mike Davignon

Test Start: 2003.01.08 @ 18:18:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------|---------------|
| 124.00 | Mdy Wtr | 0.610 |
| 62.00 | MCO 80%o 20%m | 0.870 |
| 62.00 | CGsyO 10%g 90%o | 0.870 |

Total Length: 248.00 ft

Total Volume: 2.350 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .18 @ 80 = 36000ppm

Serial #: 2357

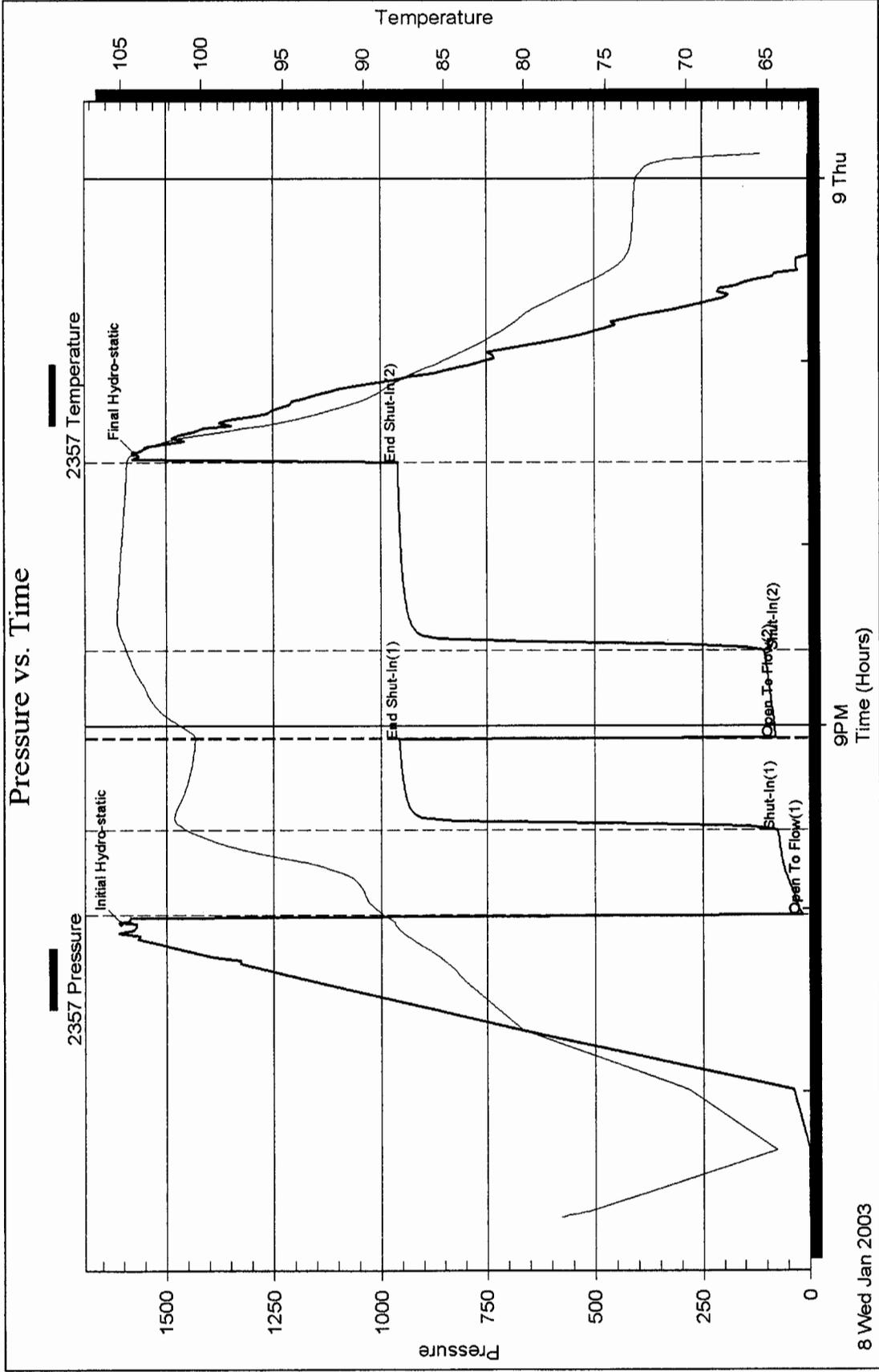
Inside

Great Eastern Energy

25-7-21-Graham-Ks

DST Test Number: 5

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Mike Davignon

25-7-21-Graham-Ks

Alexander #1

Start Date: 2003.01.09 @ 19:40:54

End Date: 2003.01.10 @ 01:33:24

Job Ticket #: 18823 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy
Box 150
Bogue, KS 67625
ATTN: Mike Davignon

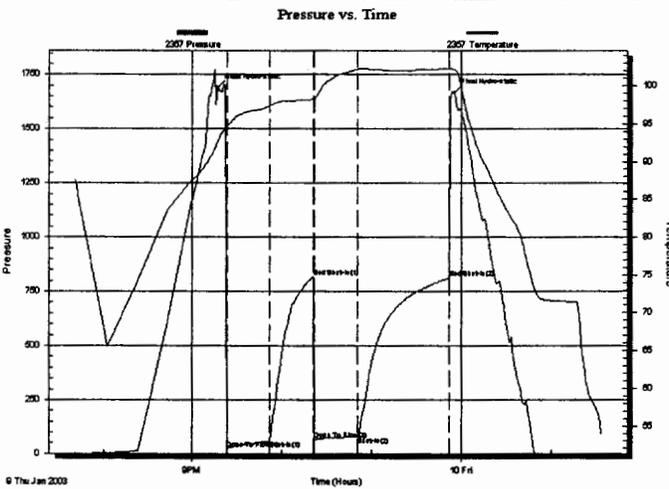
Alexander #1
25-7-21-Graham-Ks
Job Ticket: 18823 **DST#: 6**
Test Start: 2003.01.09 @ 19:40:54

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 21:23:24
Time Test Ended: 01:33:24
Interval: **3525.00 ft (KB) To 3560.00 ft (KB) (TVD)**
Total Depth: **3560.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **21**
Reference Elevations: **2062.00 ft (KB)**
2057.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 2357 **Inside**
Press@RunDepth: **78.59 psig @ 3526.00 ft (KB)**
Start Date: **2003.01.09** End Date: **2003.01.10** Capacity: **7000.00 psig**
Start Time: **19:40:59** End Time: **01:33:23** Last Calib.: **2003.01.10**
Time On Btm: **2003.01.09 @ 21:17:24**
Time Off Btm: **2003.01.09 @ 23:55:24**

TEST COMMENT: IF-Weak building to 3"
FF-Weak building to 1"
Times-30-30-30-60



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1690.08 | 92.64 | Initial Hydro-static |
| 6 | 21.89 | 94.63 | Open To Flow (1) |
| 35 | 58.84 | 97.34 | Shut-In(1) |
| 64 | 816.47 | 98.22 | End Shut-In(1) |
| 65 | 65.19 | 98.25 | Open To Flow (2) |
| 94 | 78.59 | 102.21 | Shut-In(2) |
| 155 | 811.98 | 102.29 | End Shut-In(2) |
| 158 | 1666.39 | 102.13 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 144.00 | Mdy Wtr 80%w 20%m | 0.89 |
| 10.00 | CO | 0.14 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 18823

DST#: 6

ATTN: Mike Davignon

Test Start: 2003.01.09 @ 19:40:54

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3402.00 ft | Diameter: 3.80 inches | Volume: 47.72 bbl | Tool Weight: 1800.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 124.00 ft | Diameter: 2.25 inches | Volume: 0.61 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 48.33 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 22.00 ft | | | String Weight: Initial 43000.00 lb |
| Depth to Top Packer: | 3525.00 ft | | | Final 43000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 35.00 ft | | | |
| Tool Length: | 56.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3505.00 | |
| S.I. Tool | 5.00 | | | 3510.00 | |
| HMV | 5.00 | | | 3515.00 | |
| Packer | 5.00 | | | 3520.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3525.00 | |
| Stubb | 1.00 | | | 3526.00 | |
| Recorder | 0.00 | 2357 | Inside | 3526.00 | |
| Perforations | 31.00 | | | 3557.00 | |
| Recorder | 0.00 | 13254 | Outside | 3557.00 | |
| Bullnose | 3.00 | | | 3560.00 | 35.00 Bottom Packers & Anchor |
| Total Tool Length: | 56.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Alexander #1

Box 150
Bogue, KS 67625

25-7-21-Graham-Ks

Job Ticket: 18823

DST#: 6

ATTN: Mike Davignon

Test Start: 2003.01.09 @ 19:40:54

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:

28000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 144.00 | Mdy Wtr 80%w 20%m | 0.890 |
| 10.00 | CO | 0.140 |

Total Length: 154.00 ft Total Volume: 1.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .25 @ 80 = 28000ppm

Pressure vs. Time

