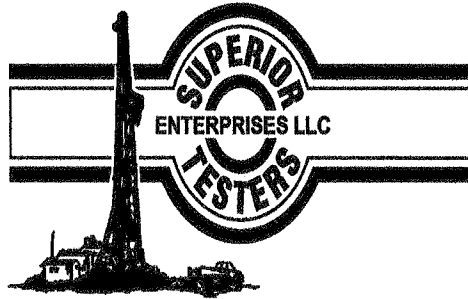


15-009-25371

24-17s-14w

IND



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

**24-17-14 BARTON**

**CLARK #1-24**

Start Date: 2010.01.20 @ 06:42:00

End Date: 2010.01.20 @ 13:10:30

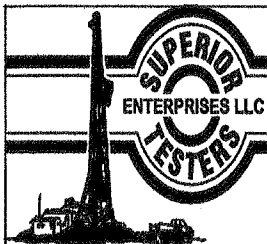
Job Ticket #: 16301 DST #: 1

RECEIVED  
SEP 22 2010  
KCC WICHITA

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

Printed: 2010.01.20 @ 13:28:50

SHELBY RESOURCES L.L.C  
CLARK #1-24  
24-17-14 BARTON  
DST # 1  
LANSING A-G  
2010.01.20



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16301

DST#: 1

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 06:42:00

## GENERAL INFORMATION:

Formation: **LANSING A-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:28:30

Time Test Ended: 13:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3182.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3300.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8405

Inside

Press@RunDepth: 117.64 psia @ 3295.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.20

End Date: 2010.01.20

Last Calib.: 2010.01.20

Start Time: 06:42:00

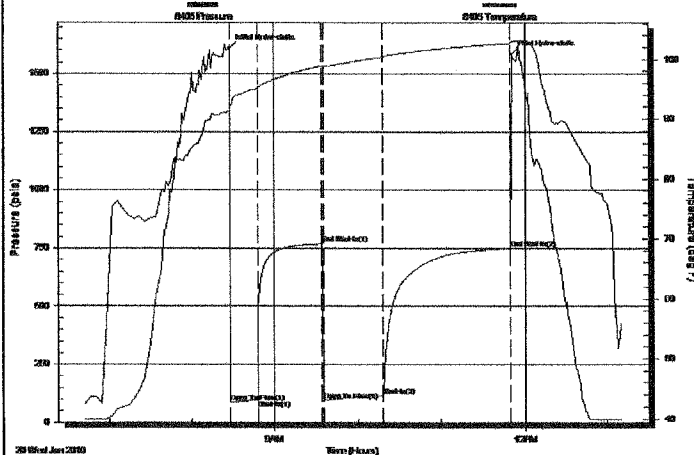
End Time: 13:10:30

Time On Btm: 2010.01.20 @ 08:28:00

Time Off Btm: 2010.01.20 @ 11:50:30

TEST COMMENT: 20/INITIAL OPEN:WEAK BLOW DID NOT BUILD  
45/INITIAL SHUT IN:NO BLOW BACK  
45/FINAL OPEN:WEAL SURFACE BLOW BUILT 1 1/4 INTO WATER IN 45 MINUTES  
90/FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

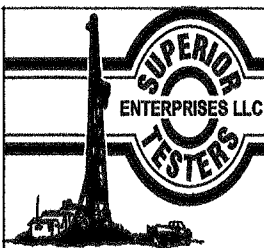
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1609.01         | 91.39        | Initial Hydro-static |
| 1           | 87.02           | 91.93        | Open To Flow (1)     |
| 20          | 95.61           | 95.09        | Shut-In(1)           |
| 66          | 769.05          | 98.88        | End Shut-In(1)       |
| 68          | 97.58           | 98.71        | Open To Flow (2)     |
| 110         | 117.64          | 100.37       | Shut-In(2)           |
| 202         | 749.63          | 102.71       | End Shut-In(2)       |
| 203         | 1583.84         | 103.07       | Final Hydro-static   |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00       | MUD         | 0.30         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

CLARK #1-24

24-17-14 BARTON

Job Ticket: 16301

DST#: 1

Test Start: 2010.01.20 @ 06:42:00

## GENERAL INFORMATION:

Formation: **LANSING A-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:28:30

Time Test Ended: 13:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3182.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Total Depth: 3300.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Poor

Reference Elevations: 1941.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8419

Outside

Press@RunDepth: 751.76 psia @ 3295.00 ft (KB)

Start Date: 2010.01.20

End Date: 2010.01.20

Capacity: 5000.00 psia

Last Calib.: 2010.01.20

Start Time: 06:40:00

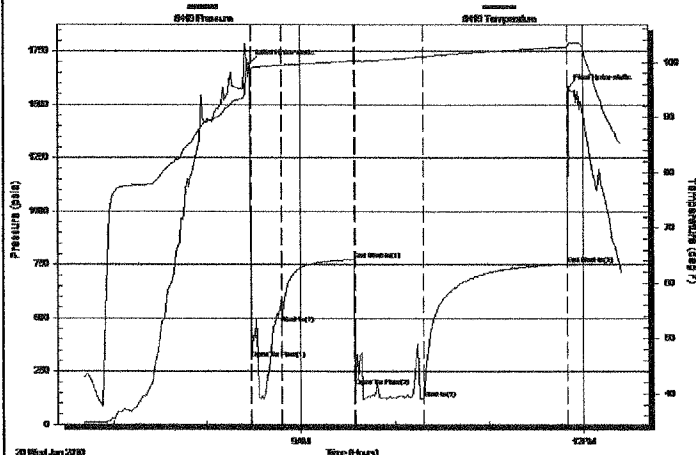
End Time: 12:25:00

Time On Btm: 2010.01.20 @ 08:27:30

Time Off Btm: 2010.01.20 @ 11:50:30

TEST COMMENT: 20/INITIAL OPEN:WEAK BLOW DID NOT BUILD  
45/INITIAL SHUT IN:NO BLOW BACK  
45/FINAL OPEN:WEAL SURFACE BLOW BUILT 1 1/4 INTO WATER IN 45 MINUTES  
90/FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



## PRESSURE SUMMARY

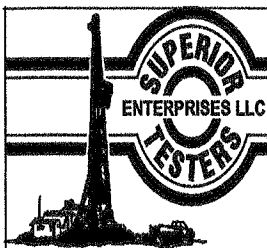
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1693.02         | 99.02        | Initial Hydro-static |
| 1           | 309.91          | 98.81        | Open To Flow (1)     |
| 21          | 472.81          | 99.41        | Shut-In(1)           |
| 67          | 773.24          | 100.25       | End Shut-In(1)       |
| 67          | 180.61          | 100.09       | Open To Flow (2)     |
| 111         | 123.59          | 100.91       | Shut-In(2)           |
| 202         | 751.76          | 102.73       | End Shut-In(2)       |
| 203         | 1580.47         | 103.35       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00       | MUD         | 0.30         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16301

DST#: 1

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 06:42:00

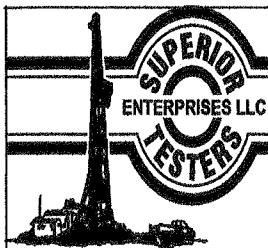
## Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 2966.00 ft | Diameter: 3.80 inches | Volume: 41.61 bbl | Tool Weight: 10000.00 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: 80000.00 lb  |
|                           |                    | Total Volume:         | 42.64 bbl         | Tool Chased 5.00 ft                |
| Drill Pipe Above KB:      | 23.00 ft           |                       |                   | String Weight: Initial 64000.00 lb |
| Depth to Top Packer:      | 3182.00 ft         |                       |                   | Final 64000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 118.00 ft          |                       |                   |                                    |
| Tool Length:              | 147.00 ft          |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                 |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Change Over Sub  | 1.00        |            |          | 3154.00    |                                |
| Shut-In Tool     | 5.00        |            |          | 3159.00    |                                |
| Hydrolic Tool    | 5.00        |            |          | 3164.00    |                                |
| Jars             | 6.00        |            |          | 3170.00    |                                |
| Safety Joint     | 2.00        |            |          | 3172.00    |                                |
| Packer           | 5.00        |            |          | 3177.00    | 29.00 Bottom Of Top Packer     |
| Packer           | 5.00        |            |          | 3182.00    |                                |
| Change Over Sub  | 0.75        |            |          | 3182.75    |                                |
| Drill Pipe       | 91.50       |            |          | 3274.25    |                                |
| Change Over Sub  | 0.75        |            |          | 3275.00    |                                |
| Perforations     | 20.00       |            |          | 3295.00    |                                |
| Recorder         | 0.00        | 8405       | Inside   | 3295.00    |                                |
| Recorder         | 0.00        | 8419       | Outside  | 3295.00    |                                |
| Bullnose         | 5.00        |            |          | 3300.00    | 118.00 Bottom Packers & Anchor |

Total Tool Length: 147.00



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16301

DST#: 1

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 06:42:00

## 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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 60.00        | MUD         | 0.295         |

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

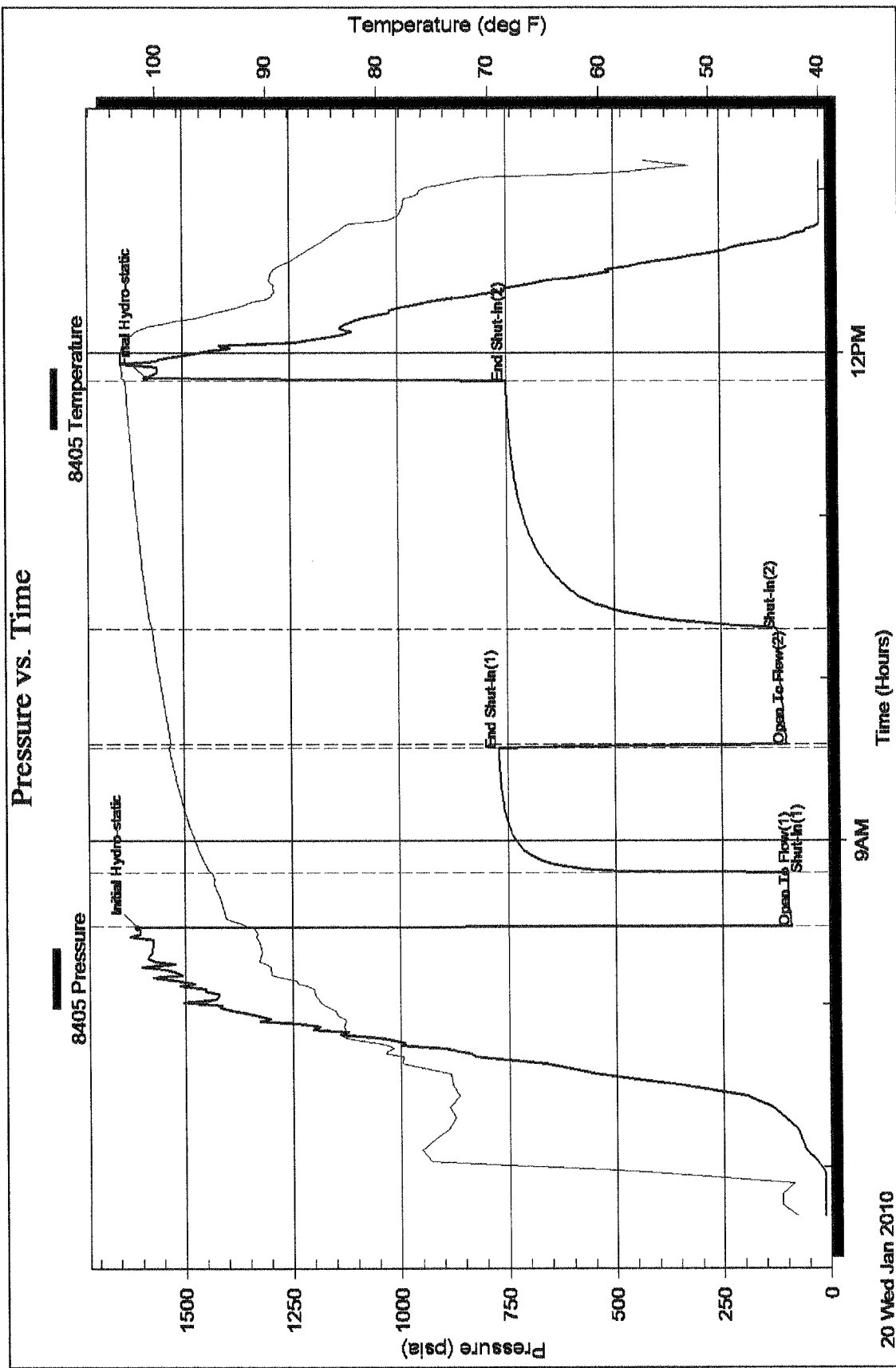
24-17-14 BARTON

SHELBY RESOURCES L.L.C

Inside

Serial #: 8405

# Pressure vs. Time



Printed: 2010.01.20 @ 13:28:52

Ref. No: 16301

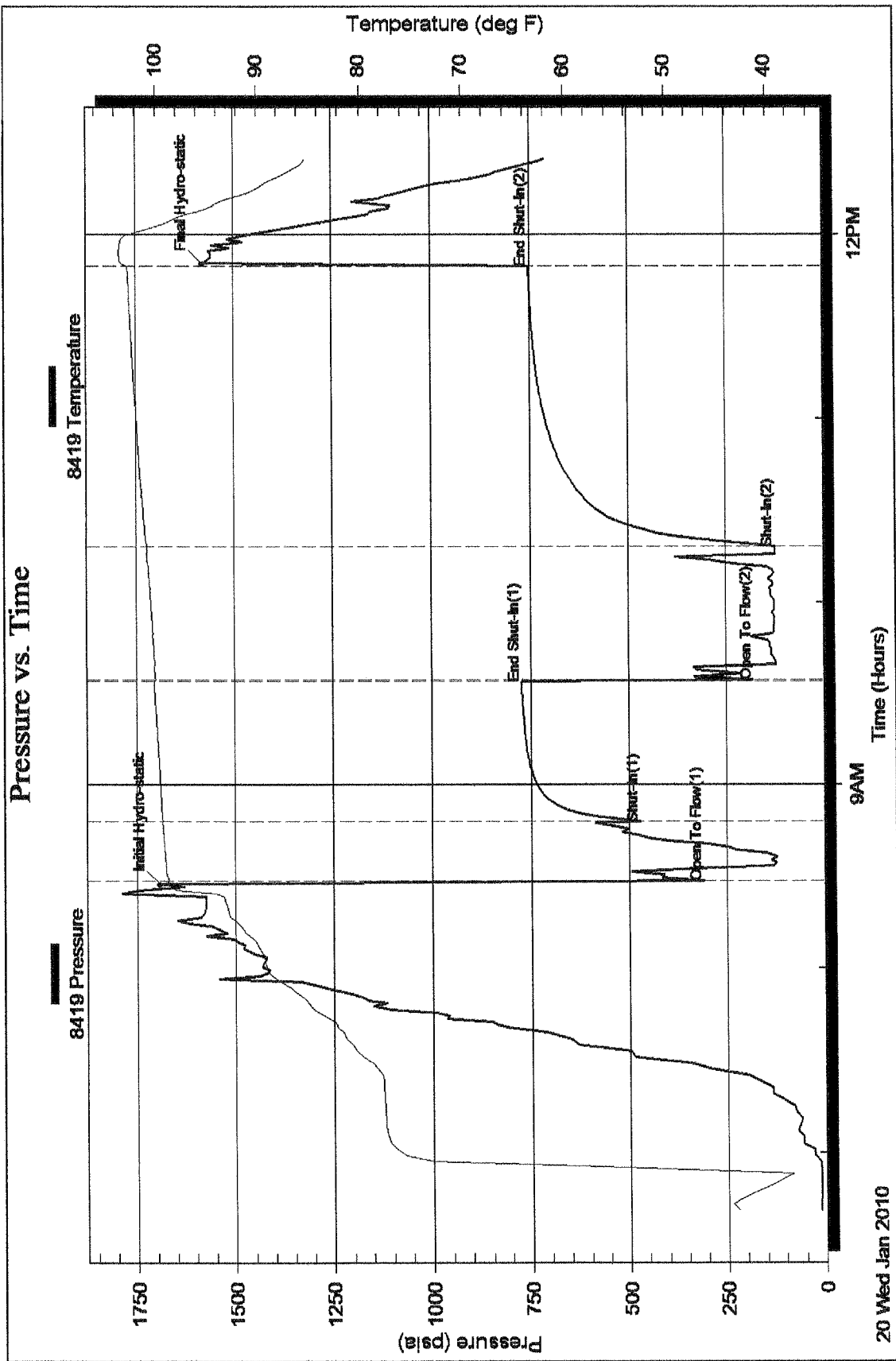
Superior Testers Enterprises LLC

DST Test Number: 1

24-17-14 BARTON

Serial #: 8419      Outside      SHELBY RESOURCES L.L.C

# Pressure vs. Time

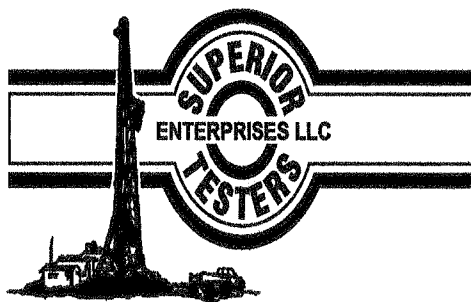


Printed: 2010.01.20 @ 13:28:53

Ref. No: 16301

Superior Testers Enterprises LLC

IND



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

**24-17-14 BARTON**

**CLARK #1-24**

Start Date: 2010.01.20 @ 19:58:00

End Date: 2010.01.21 @ 03:53:00

Job Ticket #: 16302 DST #: 2

RECEIVED

SEP 22 2010

KCC WICHITA

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

Printed: 2010.01.21 @ 04:13:33

SHELBY RESOURCES L.L.C

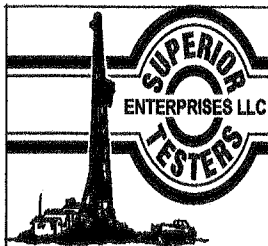
CLARK #1-24

24-17-14 BARTON

DST # 2

LANSING H

2010.01.20



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16302

DST#: 2

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 19:58:00

## GENERAL INFORMATION:

Formation: **LANSING H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:36:00

Time Test Ended: 03:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: 3307.00 ft (KB) To 3327.00 ft (KB) (TVD)

Total Depth: 3327.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1941.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8405 Inside

Press@RunDepth: 279.21 psia @ 3322.00 ft (KB)

Start Date: 2010.01.20

End Date: 2010.01.21

Capacity: 5000.00 psia

Last Calib.: 2010.01.21

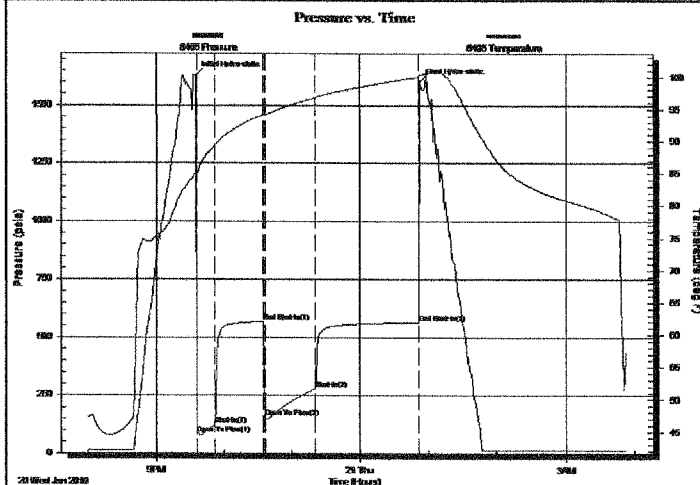
Start Time: 19:58:00

End Time: 03:53:00

Time On Btm: 2010.01.20 @ 21:35:00

Time Off Btm: 2010.01.21 @ 00:53:00

TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE  
45/INITIAL SHUT IN:BOTTOM OF BUCKET  
45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES GAS TO SURFACE 7 MINUTES  
90/FINAL SHUT IN:BOTTOM OF BUCKET



## PRESSURE SUMMARY

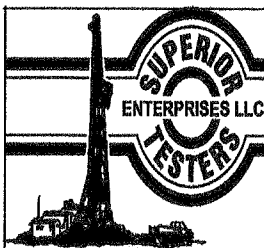
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1628.63         | 85.24        | Initial Hydro-static |
| 1           | 84.98           | 85.07        | Open To Flow (1)     |
| 17          | 123.77          | 89.30        | Shut-In (1)          |
| 60          | 567.98          | 94.14        | End Shut-In (1)      |
| 62          | 156.72          | 94.10        | Open To Flow (2)     |
| 106         | 279.21          | 96.80        | Shut-In (2)          |
| 197         | 564.91          | 100.02       | End Shut-In (2)      |
| 198         | 1600.60         | 100.35       | Final Hydro-static   |

## Recovery

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 2400.00     | GAS IN PIPE              | 31.75        |
| 600.00      | C G O 15%G 85%O          | 8.42         |
| 120.00      | G O CUT M 10%G 80%O 10%M | 1.68         |
|             |                          |              |
|             |                          |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16302

DST#: 2

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 19:58:00

## GENERAL INFORMATION:

Formation: **LANSING H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:36:00

Time Test Ended: 03:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: 3307.00 ft (KB) To 3327.00 ft (KB) (TVD)

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3327.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8419 Outside

Press@RunDepth: 567.04 psia @ 3322.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.20

End Date: 2010.01.21

Last Calib.: 2010.01.21

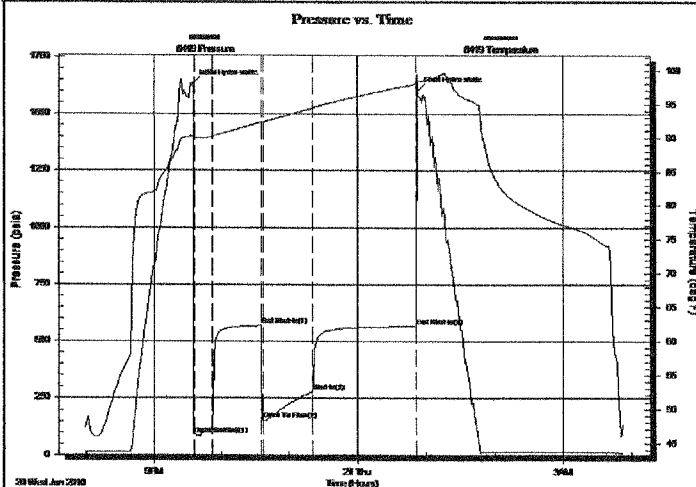
Start Time: 19:58:00

End Time: 03:53:00

Time On Btm: 2010.01.20 @ 21:35:00

Time Off Btm: 2010.01.21 @ 00:53:00

TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE  
45/INITIAL SHUT IN:BOTTOM OF BUCKET  
45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES GAS TO SURFACE 7 MINUTES  
90/FINAL SHUT IN:BOTTOM OF BUCKET



## PRESSURE SUMMARY

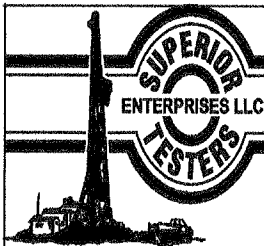
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1631.26         | 90.26        | Initial Hydro-static |
| 1           | 92.48           | 89.44        | Open To Flow (1)     |
| 17          | 125.87          | 90.17        | Shut-In(1)           |
| 60          | 570.00          | 92.34        | End Shut-In(1)       |
| 62          | 154.83          | 92.34        | Open To Flow (2)     |
| 106         | 279.61          | 94.43        | Shut-In(2)           |
| 197         | 567.04          | 98.01        | End Shut-In(2)       |
| 198         | 1603.62         | 98.34        | Final Hydro-static   |

## Recovery

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 2400.00     | GAS IN PIPE              | 31.75        |
| 600.00      | C G O 15%G 85%O          | 8.42         |
| 120.00      | G O CUT M 10%G 80%O 10%M | 1.68         |
|             |                          |              |
|             |                          |              |
|             |                          |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16302

DST#: 2

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 19:58:00

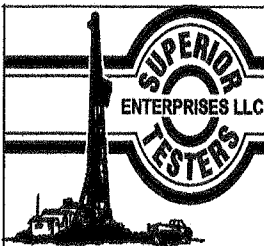
## Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3098.00 ft | Diameter: 3.80 inches | Volume: 43.46 bbl | Tool Weight: 10000.00 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: 70000.00 lb  |
|                           |                    | Total Volume:         | 44.49 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 30.00 ft           |                       |                   | String Weight: Initial 64000.00 lb |
| Depth to Top Packer:      | 3307.00 ft         |                       |                   | Final 65000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 20.00 ft           |                       |                   |                                    |
| Tool Length:              | 49.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments: GAS TO SURFACE 7 MINUTES INTO 2ND OPEN COULD NOT GAUGE GAS

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 3279.00    |                               |
| Shut-In Tool     | 5.00        |            |          | 3284.00    |                               |
| Hydraulic Tool   | 5.00        |            |          | 3289.00    |                               |
| Jars             | 6.00        |            |          | 3295.00    |                               |
| Safety Joint     | 2.00        |            |          | 3297.00    |                               |
| Packer           | 5.00        |            |          | 3302.00    | 29.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3307.00    |                               |
| Perforations     | 15.00       |            |          | 3322.00    |                               |
| Recorder         | 0.00        | 8405       | Inside   | 3322.00    |                               |
| Recorder         | 0.00        | 8419       | Outside  | 3322.00    |                               |
| Bullnose         | 5.00        |            |          | 3327.00    | 20.00 Bottom Packers & Anchor |

**Total Tool Length: 49.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16302

DST#: 2

ATTN: DEREK PATTERSON

Test Start: 2010.01.20 @ 19:58:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

49 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

#### Recovery Table

| Length<br>ft | Description              | Volume<br>bbl |
|--------------|--------------------------|---------------|
| 2400.00      | GAS IN PIPE              | 31.753        |
| 600.00       | C G O 15%G 85%O          | 8.416         |
| 120.00       | G O CUT M 10%G 80%O 10%M | 1.683         |

Total Length: 3120.00 ft Total Volume: 41.852 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

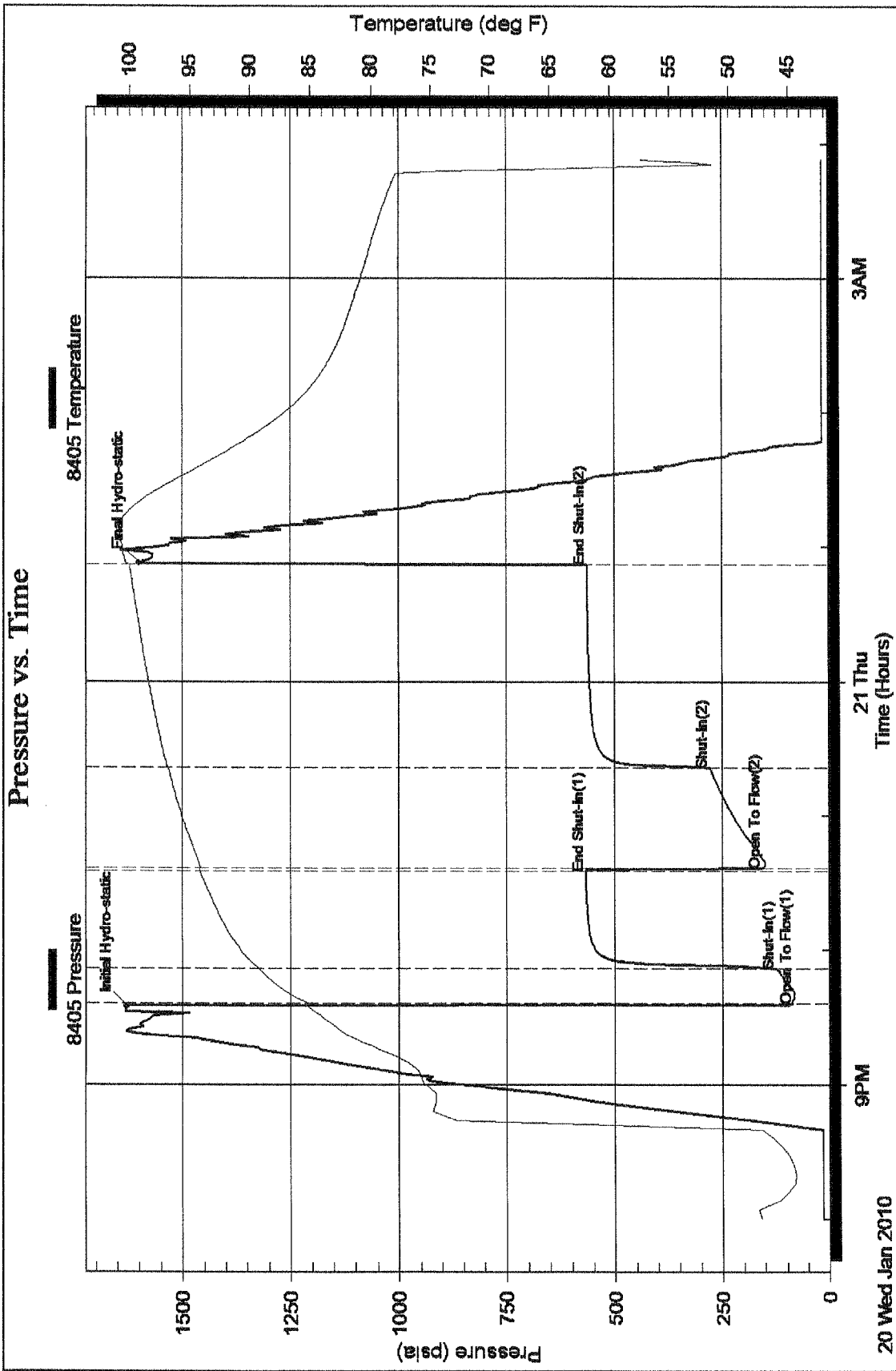
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: GAS TO SURFACE 2ND OPEN 7 MINUTES INTO OPEN COULD NOT GET TO GAUGE / GRAVITY OF OIL 49

# Pressure vs. Time



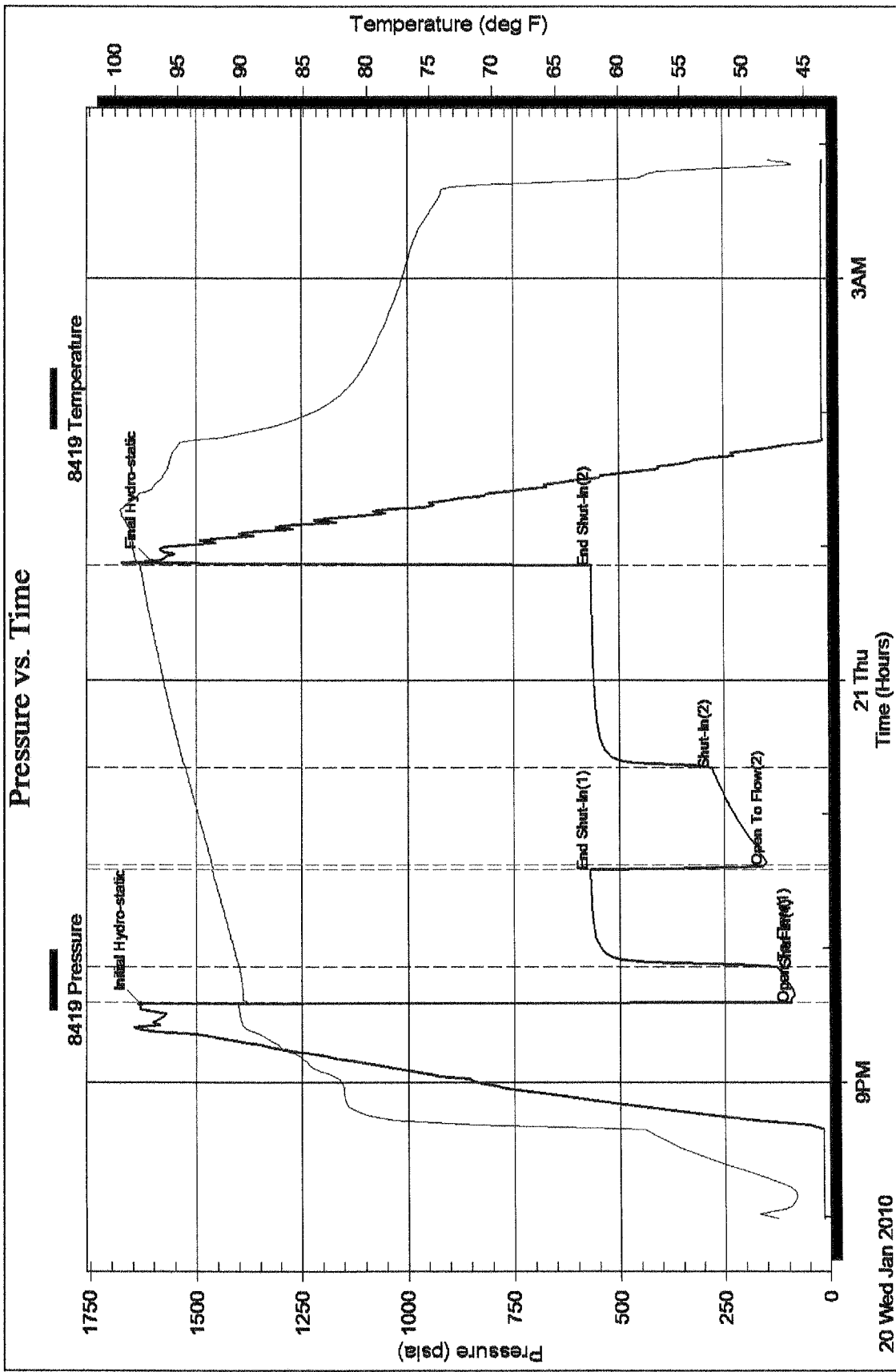
Serial #: 8419

Outside

24-17-14 BARTON

DST Test Number: 2

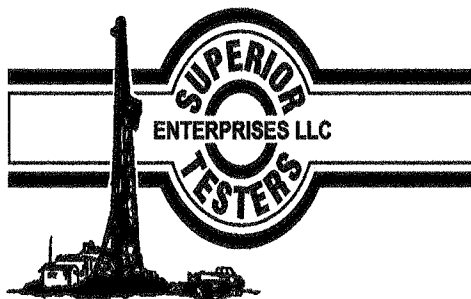
# Pressure vs. Time



Printed: 2010.01.21 @ 04:13:36

Ref. No: 16302

Superior Testers Enterprises LLC



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

**24-17-14 BARTON**

**CLARK #1-24**

Start Date: 2010.01.21 @ 18:05:00

End Date: 2010.01.22 @ 00:25:30

Job Ticket #: 16303 DST #: 3

RECEIVED  
SEP 22 2010  
KCC WICHITA

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

Printed: 2010.01.22 @ 00:44:25

SHELBY RESOURCES L.L.C

CLARK #1-24

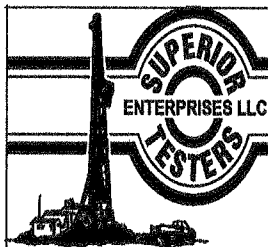
24-17-14 BARTON

DST # 3

ARBUCKLE

2010.01.21

IND



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16303

DST#: 3

ATTN: DEREK PATTERSON

Test Start: 2010.01.21 @ 18:05:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:30

Time Test Ended: 00:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3385.00 ft (KB) To 3436.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3436.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: **8405**

Inside

Press@RunDepth: 126.08 psia @ 3431.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.21

End Date:

2010.01.22

Last Calib.:

2010.01.22

Start Time: 18:05:00

End Time:

00:25:30

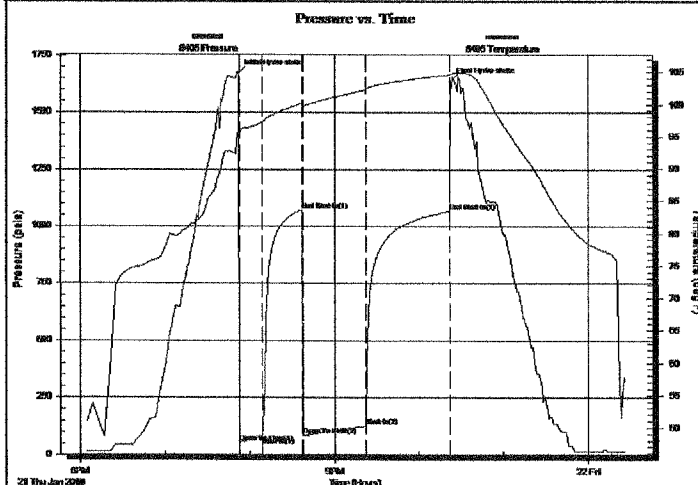
Time On Btm:

2010.01.21 @ 19:51:30

Time Off Btm:

2010.01.21 @ 22:23:00

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 3 1/2 INCHES INTO WATER  
30/INITIAL SHUT IN:NO BLOW BACK  
45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 7 1/2 INCHES INTO WATER  
60/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

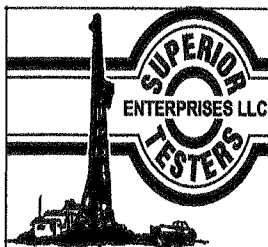
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1672.32         | 95.94        | Initial Hydro-static |
| 1           | 53.39           | 95.38        | Open To Flow (1)     |
| 17          | 78.63           | 97.17        | Shut-In(1)           |
| 45          | 1072.11         | 100.08       | End Shut-In(1)       |
| 46          | 84.52           | 99.45        | Open To Flow (2)     |
| 91          | 126.08          | 102.30       | Shut-In(2)           |
| 151         | 1066.87         | 104.57       | End Shut-In(2)       |
| 152         | 1637.88         | 104.76       | Final Hydro-static   |

## Recovery

| Length (ft) | Description       | Volume (bbl) |
|-------------|-------------------|--------------|
| 180.00      | M CUT O 50%M 50%O | 0.89         |
|             |                   |              |
|             |                   |              |
|             |                   |              |
|             |                   |              |
|             |                   |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16303

DST#: 3

ATTN: DEREK PATTERSON

Test Start: 2010.01.21 @ 18:05:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:30

Time Test Ended: 00:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3385.00 ft (KB) To 3436.00 ft (KB) (TVD)**

Total Depth: 3436.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1941.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8419

Outside

Press@RunDepth: 1068.28 psia @ 3431.00 ft (KB)

Start Date: 2010.01.21

End Date:

2010.01.22

Capacity: 5000.00 psia

Last Calib.:

2010.01.22

Start Time: 18:03:00

End Time:

00:27:00

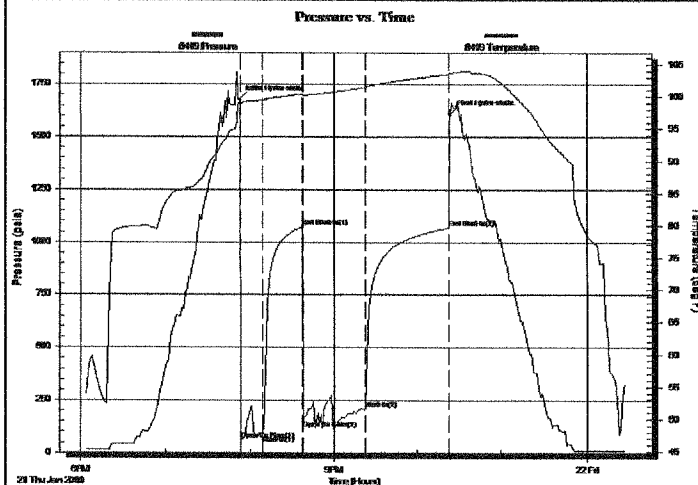
Time On Btm:

2010.01.21 @ 19:52:30

Time Off Btm:

2010.01.21 @ 22:24:00

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 3 1/2 INCHES INTO WATER  
30/INITIAL SHUT IN:NO BLOW BACK  
45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 7 1/2 INCHES INTO WATER  
60/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

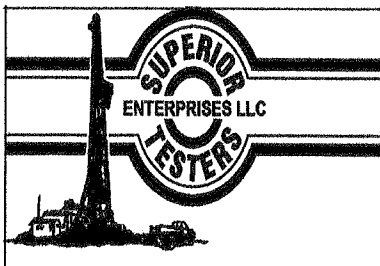
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1678.05         | 99.22        | Initial Hydro-static |
| 1           | 63.81           | 99.00        | Open To Flow (1)     |
| 16          | 84.30           | 99.41        | Shut-In(1)           |
| 45          | 1073.89         | 100.40       | End Shut-In(1)       |
| 46          | 115.84          | 100.15       | Open To Flow (2)     |
| 90          | 208.29          | 101.46       | Shut-In(2)           |
| 150         | 1068.28         | 103.50       | End Shut-In(2)       |
| 152         | 1613.33         | 103.69       | Final Hydro-static   |

## Recovery

| Length (ft) | Description       | Volume (bbl) |
|-------------|-------------------|--------------|
| 180.00      | M CUT O 50%M 50%O | 0.89         |
|             |                   |              |
|             |                   |              |
|             |                   |              |
|             |                   |              |
|             |                   |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16303

DST#: 3

ATTN: DEREK PATTERSON

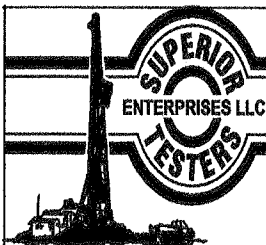
Test Start: 2010.01.21 @ 18:05:00

## Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3157.00 ft | Diameter: 3.80 inches | Volume: 44.28 bbl | Tool Weight: 10000.00 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: 70000.00 lb  |
|                           |                    | Total Volume:         | 45.31 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 11.00 ft           |                       |                   | String Weight: Initial 64000.00 lb |
| Depth to Top Packer:      | 3385.00 ft         |                       |                   | Final 64000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 51.00 ft           |                       |                   |                                    |
| Tool Length:              | 80.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |
| Tool Comments:            |                    |                       |                   |                                    |

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 3357.00    |                               |
| Shut-In Tool     | 5.00        |            |          | 3362.00    |                               |
| Hydraulic Tool   | 5.00        |            |          | 3367.00    |                               |
| Jars             | 6.00        |            |          | 3373.00    |                               |
| Safety Joint     | 2.00        |            |          | 3375.00    |                               |
| Packer           | 5.00        |            |          | 3380.00    | 29.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3385.00    |                               |
| Change Over Sub  | 0.75        |            |          | 3385.75    |                               |
| Drill Pipe       | 32.50       |            |          | 3418.25    |                               |
| Change Over Sub  | 0.75        |            |          | 3419.00    |                               |
| Perforations     | 12.00       |            |          | 3431.00    |                               |
| Recorder         | 0.00        | 8405       | Inside   | 3431.00    |                               |
| Recorder         | 0.00        | 8419       | Outside  | 3431.00    |                               |
| Bullnose         | 5.00        |            |          | 3436.00    | 51.00 Bottom Packers & Anchor |

**Total Tool Length: 80.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16303

DST#: 3

ATTN: DEREK PATTERSON

Test Start: 2010.01.21 @ 18:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psia

### Recovery Information

Recovery Table

| Length<br>ft | Description       | Volume<br>bbl |
|--------------|-------------------|---------------|
| 180.00       | M CUT O 50%M 50%O | 0.885         |

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

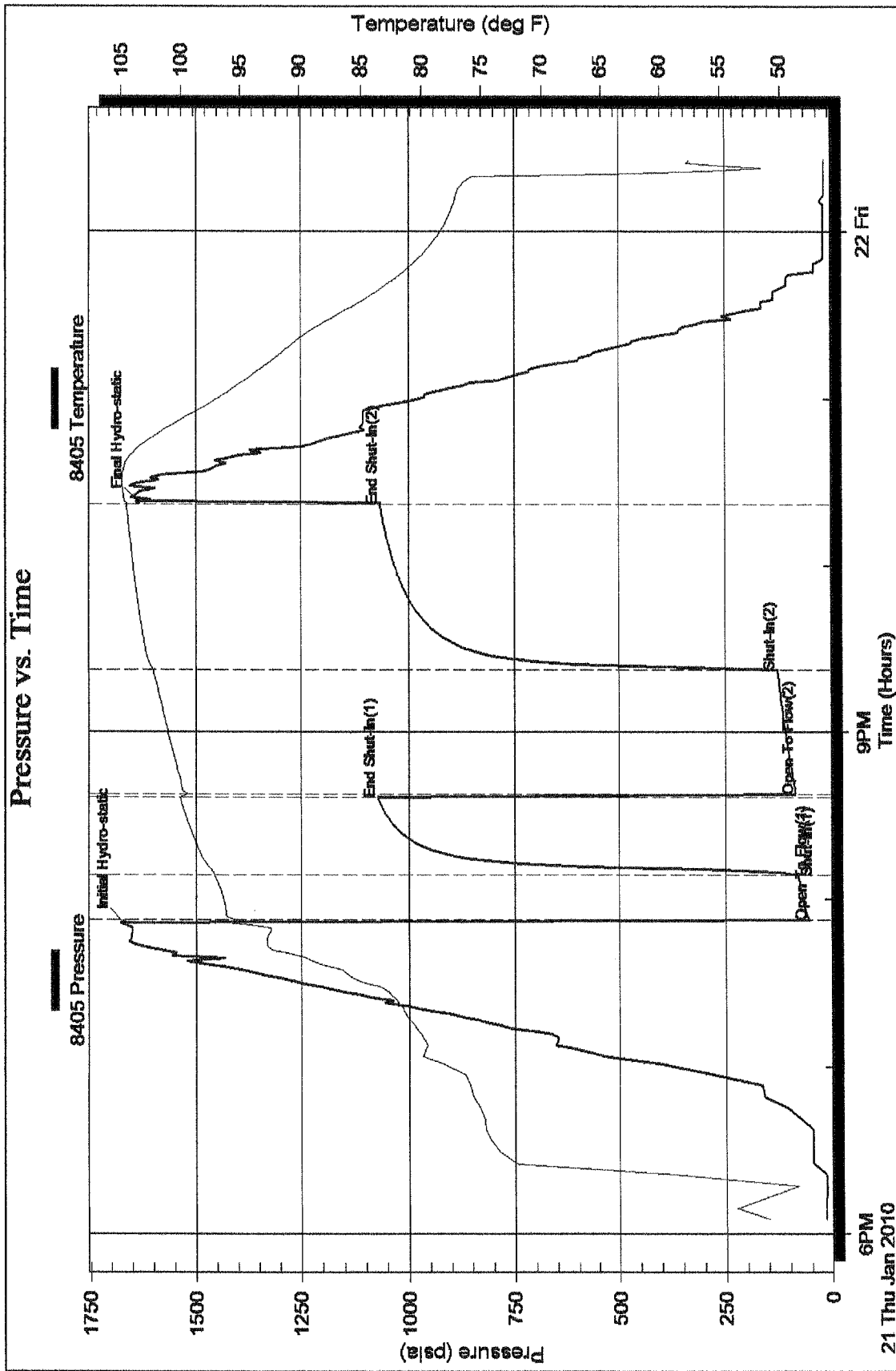
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



Serial #: 8419

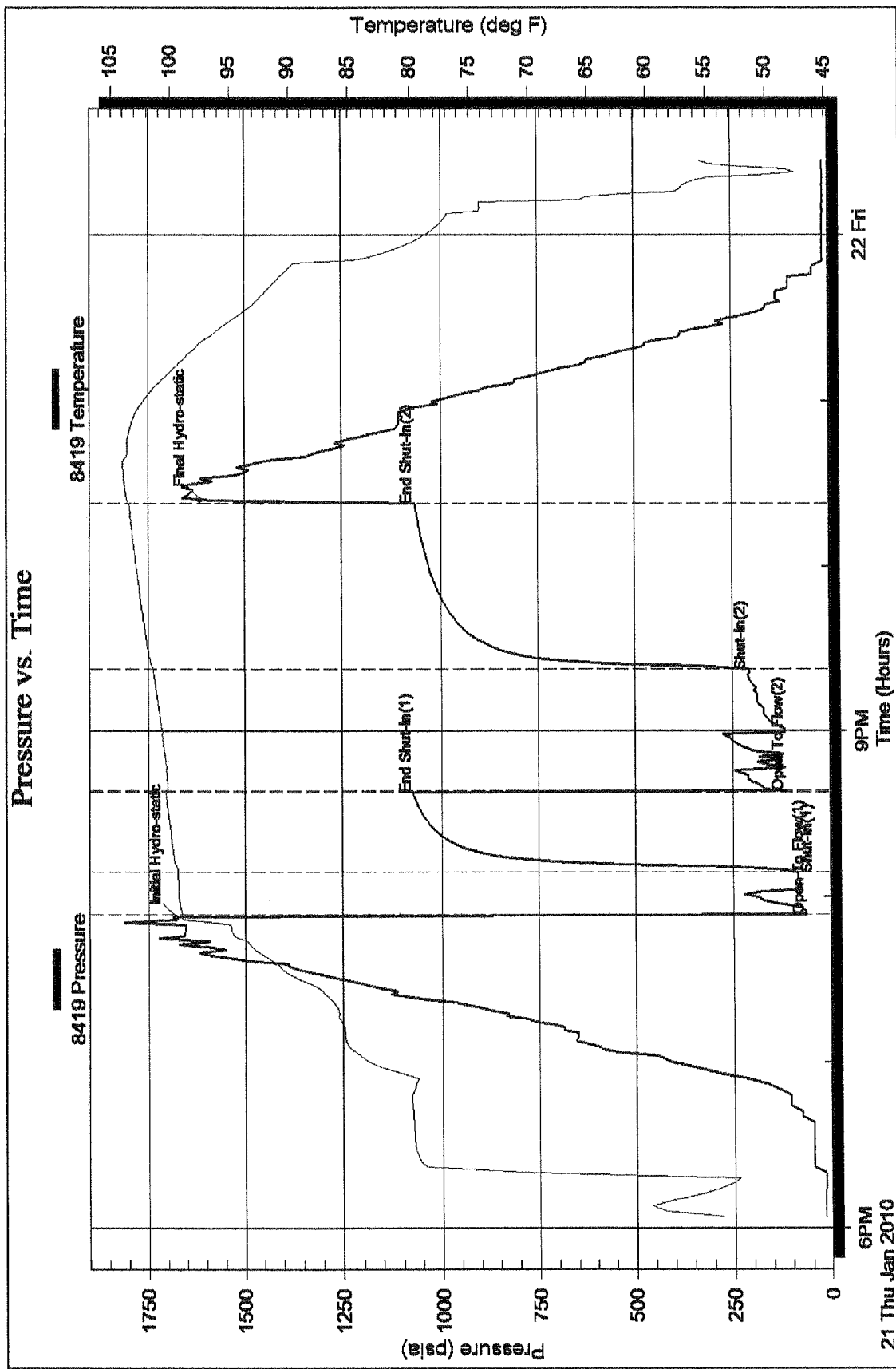
Outside

SHELBY RESOURCES L.L.C

24-17-14 BARTON

DST Test Number: 3

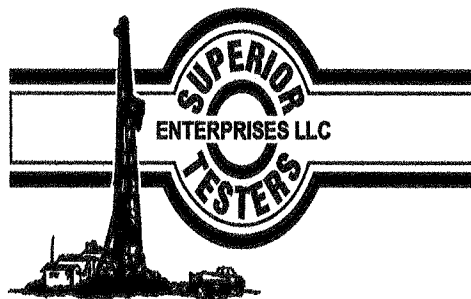
# Pressure vs. Time



Printed: 2010.01.22 @ 00:44:27

Ref. No: 16303

Superior Testers Enterprises LLC



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

**24-17-14 BARTON**

**CLARK #1-24**

Start Date: 2010.01.22 @ 08:30:00

End Date: 2010.01.22 @ 16:08:00

Job Ticket #: 16304 DST #: 4

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

Printed: 2010.01.22 @ 16:28:14

SHELBY RESOURCES L.L.C

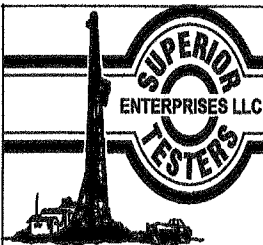
CLARK #1-24

24-17-14 BARTON

DST # 4

ARBuckle

2010.01.22



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16304

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 08:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:54:30

Time Test Ended: 16:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: 3436.00 ft (KB) To 3446.00 ft (KB) (TVD)

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8405

Inside

Press@RunDepth: 50.08 psia @ 3441.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.22

End Date:

2010.01.22

Last Calib.:

2010.01.22

Start Time: 08:30:00

End Time:

16:08:00

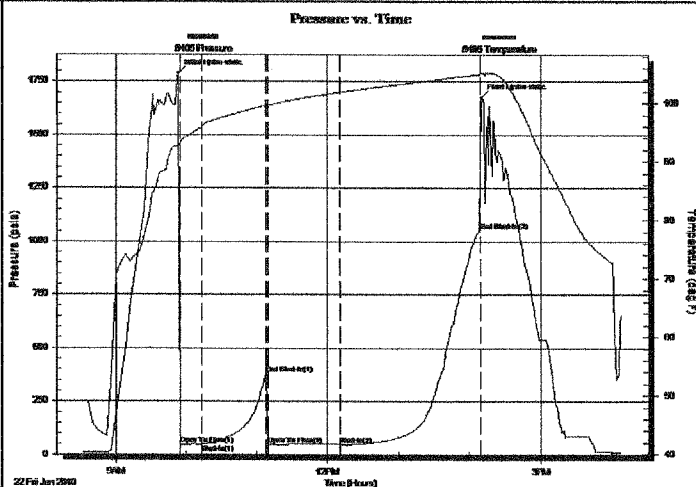
Time On Btm:

2010.01.22 @ 09:53:30

Time Off Btm:

2010.01.22 @ 14:10:30

TEST COMMENT: 15/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER  
60/INITIAL SHUT IN:VERY WEAK SURFACE BLOW  
60/FINAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER  
120/FINAL SHUT IN:VERY WEAK SURFACE BLOW



## PRESSURE SUMMARY

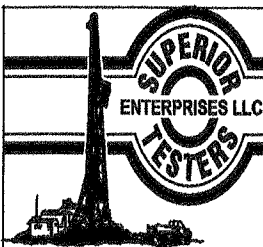
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1788.86         | 92.64        | Initial Hydro-static |
| 1           | 45.69           | 93.05        | Open To Flow (1)     |
| 20          | 49.15           | 95.84        | Shut-In(1)           |
| 75          | 379.52          | 99.69        | End Shut-In(1)       |
| 76          | 48.90           | 99.61        | Open To Flow (2)     |
| 137         | 50.08           | 101.90       | Shut-In(2)           |
| 256         | 1053.41         | 104.92       | End Shut-In(2)       |
| 257         | 1675.43         | 105.23       | Final Hydro-static   |

## Recovery

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 10.00       | SPOT OIL CT MUD 2%O 98%M | 0.05         |
|             |                          |              |
|             |                          |              |
|             |                          |              |
|             |                          |              |
|             |                          |              |

## Gas Rates

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



## DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16304

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 08:30:00

### GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:54:30

Time Test Ended: 16:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3436.00 ft (KB) To 3446.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8419** Outside

Press@RunDepth: psia @ 3441.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.22

End Date: 2010.01.22

Last Calib.: 2010.01.22

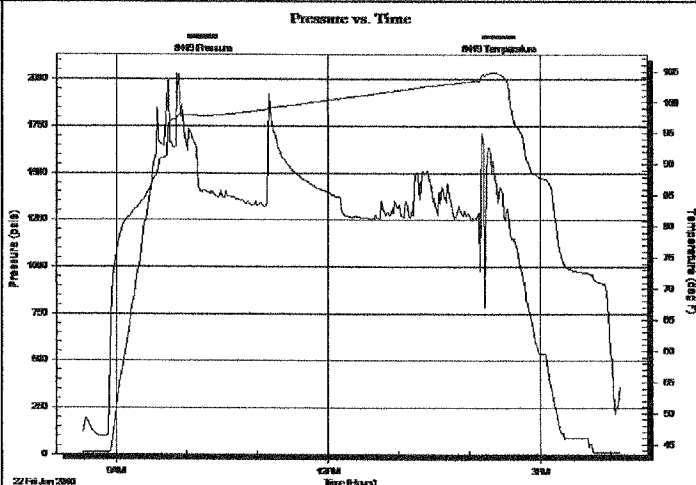
Start Time: 08:30:00

End Time: 16:08:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 15/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER  
60/INITIAL SHUT IN:VERY WEAK SURFACE BLOW  
60/FINAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER  
120/FINAL SHUT IN:VERY WEAK SURFACE BLOW



### PRESSURE SUMMARY

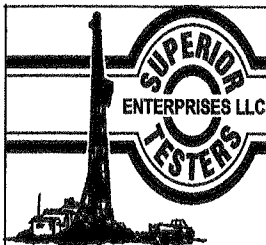
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
|-------------|-----------------|--------------|------------|

### Recovery

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 10.00       | SPOT OIL CT MUD 2%O 98%M | 0.05         |
|             |                          |              |
|             |                          |              |
|             |                          |              |
|             |                          |              |
|             |                          |              |

### Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16304

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 08:30:00

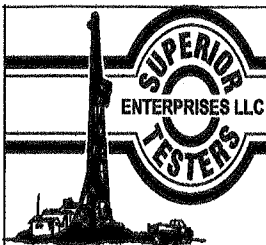
## Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 3228.00 ft | Diameter: 3.80 inches | Volume: 45.28 bbl       | Tool Weight: 10000.00 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: 100000.0 lb  |
|                           |                    |                       | Total Volume: 46.31 bbl | Tool Chased 8.00 ft                |
| Drill Pipe Above KB:      | 31.00 ft           |                       |                         | String Weight: Initial 64000.00 lb |
| Depth to Top Packer:      | 3436.00 ft         |                       |                         | Final 64000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 10.00 ft           |                       |                         |                                    |
| Tool Length:              | 39.00 ft           |                       |                         |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                         |                                    |

Tool Comments: TOOL CHASED 8 FEET TO BOTTOM /CHASED TOOL ON BOTH OPENS

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 3408.00    |                               |
| Shut-In Tool     | 5.00        |            |          | 3413.00    |                               |
| Hydraulic Tool   | 5.00        |            |          | 3418.00    |                               |
| Jars             | 6.00        |            |          | 3424.00    |                               |
| Safety Joint     | 2.00        |            |          | 3426.00    |                               |
| Packer           | 5.00        |            |          | 3431.00    | 29.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3436.00    |                               |
| Perforations     | 5.00        |            |          | 3441.00    |                               |
| Recorder         | 0.00        | 8405       | Inside   | 3441.00    |                               |
| Recorder         | 0.00        | 8419       | Outside  | 3441.00    |                               |
| Bullnose         | 5.00        |            |          | 3446.00    | 10.00 Bottom Packers & Anchor |

Total Tool Length: 39.00



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16304

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 08:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 8.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7500.00 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: deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description              | Volume<br>bbl |
|--------------|--------------------------|---------------|
| 10.00        | SPOT OIL CT MUD 2%O 98%M | 0.049         |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TOOL CHASED 8 FEET TO BOTTOM/CHASED TOOL ON BOTH OPENS

Serial #: 8405

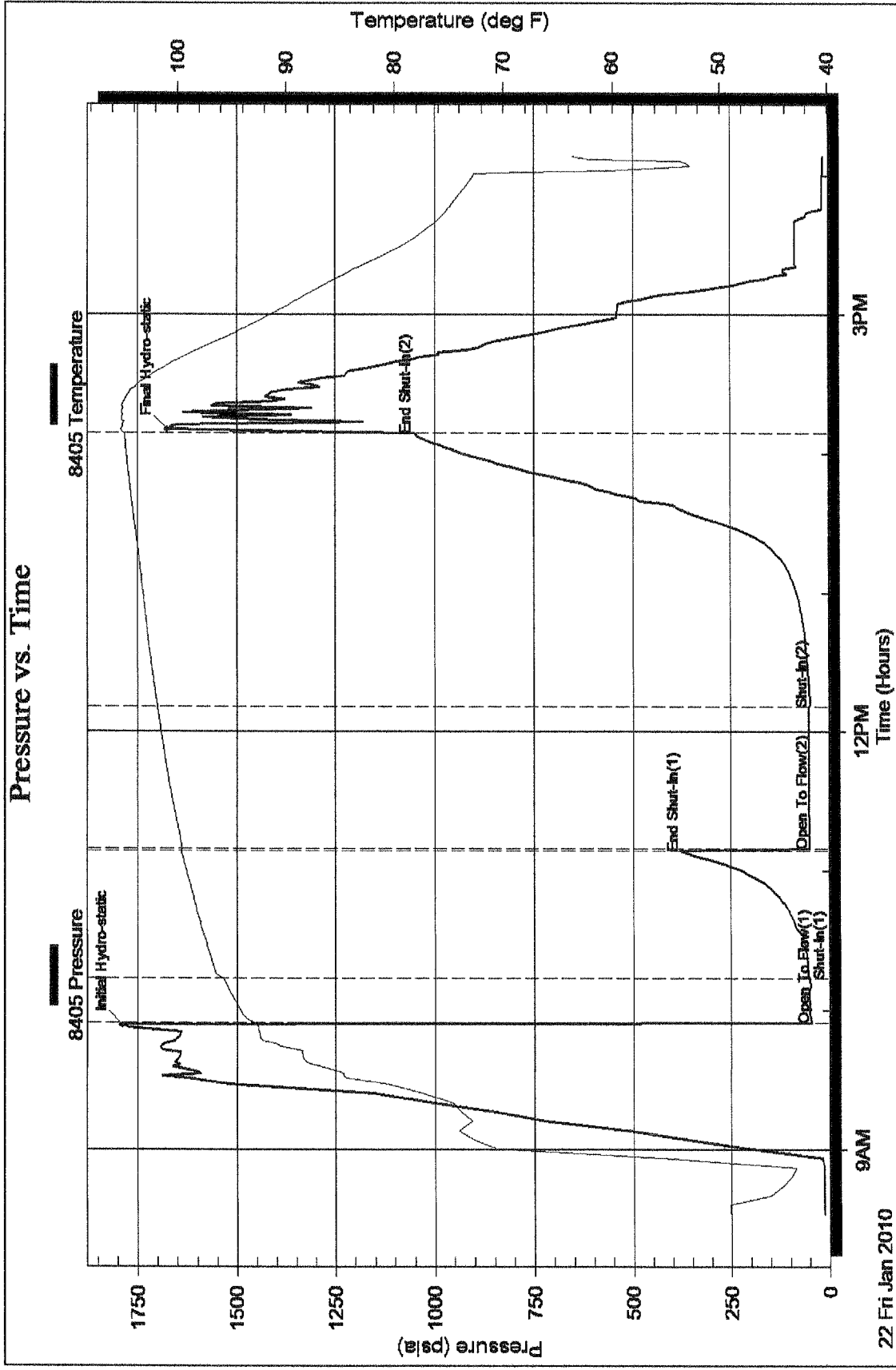
Inside

SHELBY RESOURCES L.L.C

24-17-14 BARTON

DST Test Number: 4

## Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16304

Printed: 2010.01.22 @ 16:28:16

Serial #: 8419

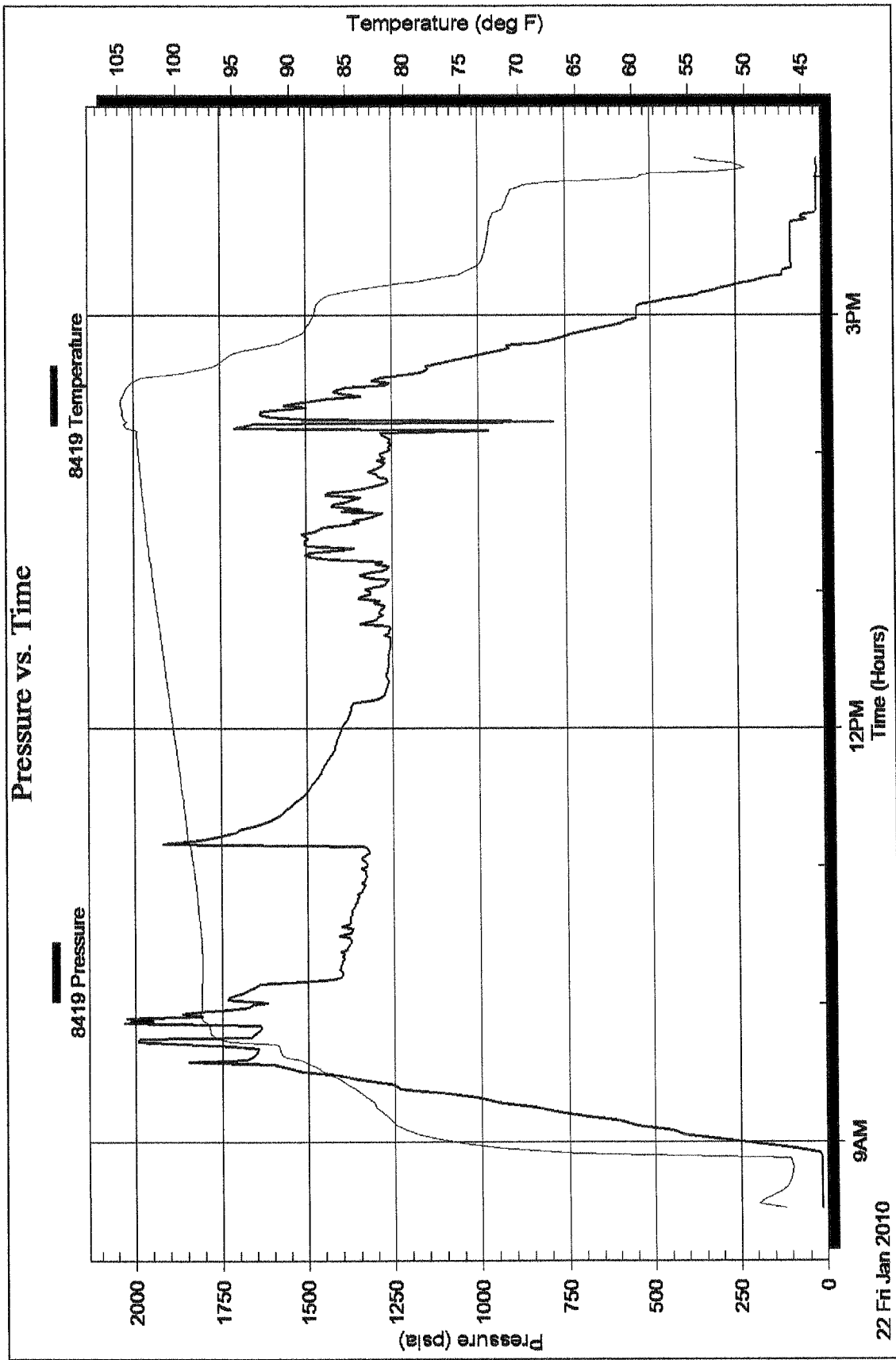
Outside

SHELBY RESOURCES L.L.C

24-17-14 BARTON

DST Test Number: 4

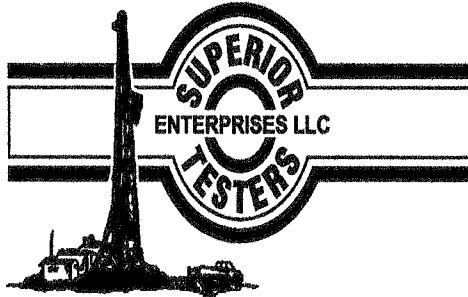
### Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16304

Printed: 2010.01.22 @ 16:28:16



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## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

**24-17-14 BARTON**

**CLARK #1-24**

Start Date: 2010.01.22 @ 00:30:00

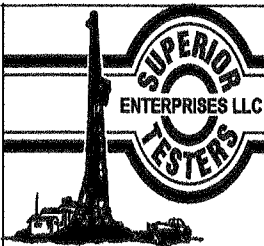
End Date: 2010.01.22 @ 07:30:00

Job Ticket #: 16305      DST #: 5

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

Printed: 2010.01.23 @ 08:06:12

SHELBY RESOURCES L.L.C      CLARK #1-24      24-17-14 BARTON      DST # 5      ARBUCKLE      2010.01.22



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16305

DST#: 5

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 00:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:30

Time Test Ended: 07:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3426.00 ft (KB) To 3446.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition:

KB to GR/CF: 9.00 ft

Serial #: **8405**

Inside

Press@RunDepth: 399.85 psia @ 3431.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.22

End Date:

2010.01.22

Last Calib.:

2010.01.23

Start Time: 00:32:00

End Time:

07:30:00

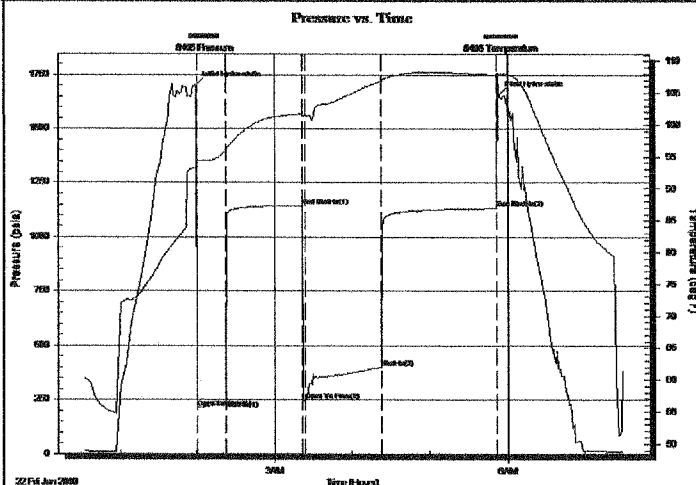
Time On Btm:

2010.01.22 @ 01:59:30

Time Off Btm:

2010.01.22 @ 05:53:30

TEST COMMENT: 20/INITIAL OPEN:PACKER FAILED PICKED TOOL BACK UP FILLED HOLE OPEN TOOL BACK UP FAIR BLOW BUILT 7 INCHES INTO WATER  
60/INITIAL SHUT IN:NO BLOW BACK  
60/FINAL OPEN:OPEN TOOL LOST 10 -15 FEET MUD HAD A FAIR BLOW BILT BOTTOM OF BCKET IN 15 MINUTES



## PRESSURE SUMMARY

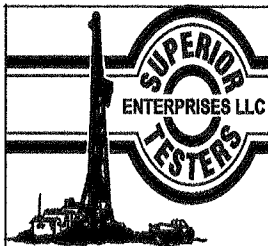
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1699.99         | 93.20        | Initial Hydro-static |
| 1           | 212.07          | 94.21        | Open To Flow (1)     |
| 23          | 246.79          | 95.91        | Shut-In(1)           |
| 82          | 1145.36         | 101.74       | End Shut-In(1)       |
| 84          | 246.14          | 101.44       | Open To Flow (2)     |
| 143         | 399.85          | 106.85       | Shut-In(2)           |
| 233         | 1133.71         | 107.84       | End Shut-In(2)       |
| 234         | 1655.79         | 107.99       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 180.00      | SLIGHTLEY O CUT M W 15%O 30%M | 550.89       |
| 630.00      | MUD                           | 8.56         |
|             |                               |              |
|             |                               |              |
|             |                               |              |
|             |                               |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16305

DST#: 5

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 00:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:30

Time Test Ended: 07:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: 3426.00 ft (KB) To 3446.00 ft (KB) (TVD)

Total Depth: 3446.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition:

Reference Elevations: 1941.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8419 Outside

Press@RunDepth: 1135.23 psia @ 3431.00 ft (KB)

Start Date: 2010.01.22

End Date:

2010.01.22

Capacity: 5000.00 psia

Last Calib.:

2010.01.23

Start Time: 00:31:00

End Time:

07:30:00

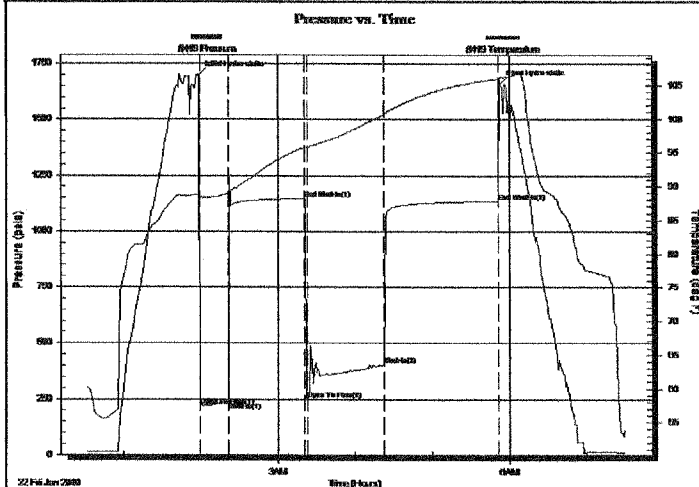
Time On Btm:

2010.01.22 @ 01:58:30

Time Off Btm:

2010.01.22 @ 05:53:00

TEST COMMENT: 20/INITIAL OPEN:PACKER FAILED PICKED TOOL BACK UP FILLED HOLE OPEN TOOL BACK UP FAIR BLOW BUILT 7 INCHES INTO WATER  
60/INITIAL SHUT IN:NO BLOW BACK  
60/FINAL OPEN:OPEN TOOL LOST 10 -15 FEET MUD HAD A FAIR BLOW BILT BOTTOM OF BCKET IN 15 MINUTES



## PRESSURE SUMMARY

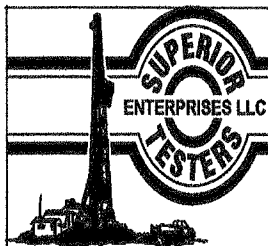
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1699.66         | 88.73        | Initial Hydro-static |
| 1           | 219.11          | 88.05        | Open To Flow (1)     |
| 23          | 236.79          | 88.95        | Shut-In(1)           |
| 83          | 1146.65         | 95.84        | End Shut-In(1)       |
| 85          | 247.30          | 95.75        | Open To Flow (2)     |
| 144         | 403.83          | 100.64       | Shut-In(2)           |
| 233         | 1135.23         | 105.94       | End Shut-In(2)       |
| 235         | 1661.16         | 106.14       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 180.00      | SLIGHTLEY O CUT MW 15%O 30%M | 550.89       |
| 630.00      | MUD                          | 8.56         |
|             |                              |              |
|             |                              |              |
|             |                              |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16305

DST#: 5

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 00:30:00

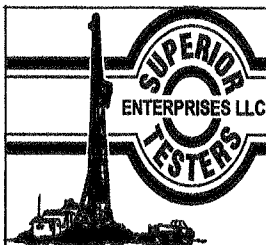
## Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3218.00 ft | Diameter: 3.80 inches | Volume: 45.14 bbl | Tool Weight: 10000.00 lb           |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 210.00 ft  | Diameter: 2.25 inches | Volume: 1.03 bbl  | Weight to Pull Loose: 72000.00 lb  |
|                           |                    | Total Volume:         | 46.17 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 31.00 ft           |                       |                   | String Weight: Initial 65000.00 lb |
| Depth to Top Packer:      | 3426.00 ft         |                       |                   | Final 70000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 10.00 ft           |                       |                   |                                    |
| Tool Length:              | 39.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments: PACKER FAILED FIRST OPEN

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 3398.00    |                               |
| Shut-In Tool     | 5.00        |            |          | 3403.00    |                               |
| Hydrolic Tool    | 5.00        |            |          | 3408.00    |                               |
| Jars             | 6.00        |            |          | 3414.00    |                               |
| Safety Joint     | 2.00        |            |          | 3416.00    |                               |
| Packer           | 5.00        |            |          | 3421.00    | 29.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3426.00    |                               |
| Perforations     | 5.00        |            |          | 3431.00    |                               |
| Recorder         | 0.00        | 8405       | Inside   | 3431.00    |                               |
| Recorder         | 0.00        | 8419       | Outside  | 3431.00    |                               |
| Bullnose         | 5.00        |            |          | 3436.00    | 10.00 Bottom Packers & Anchor |

Total Tool Length: 39.00



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16305

DST#: 5

ATTN: DEREK PATTERSON

Test Start: 2010.01.22 @ 00:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 7.98 in<sup>3</sup>

Resistivity: 2.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psia

### Recovery Information

Recovery Table

| Length<br>ft | Description                       | Volume<br>bbl |
|--------------|-----------------------------------|---------------|
| 180.00       | SLIGHTLEY O CUT MW 15%O 30%M 55%W | 0.885         |
| 630.00       | MUD                               | 8.564         |

Total Length: 810.00 ft Total Volume: 9.449 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: PACKER FAILED 1ST OPEN/ CHLORIDES 4,000 RESISTIVITY 2

Serial #: 8405

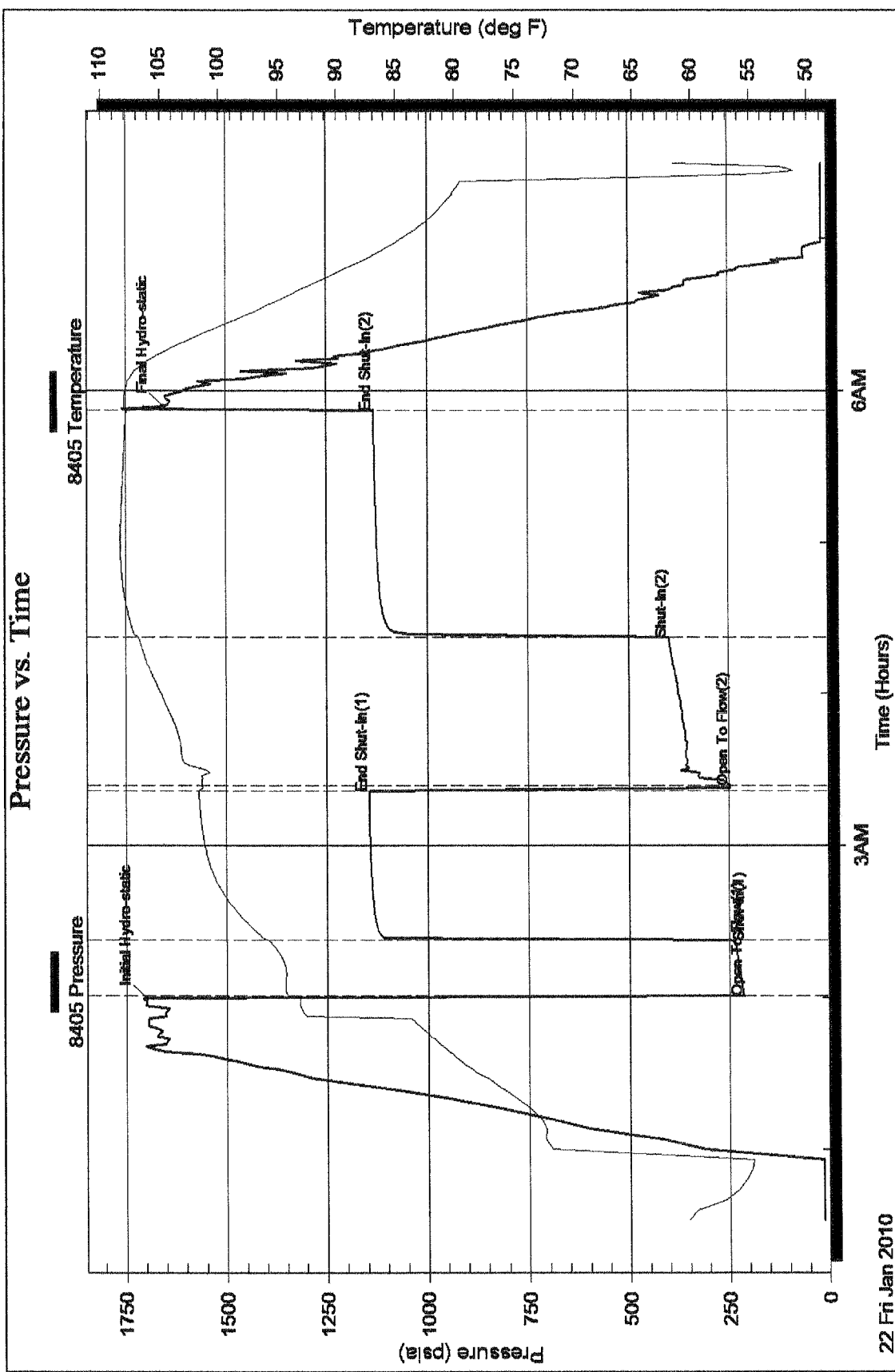
Inside

SHELBY RESOURCES L.L.C

24-17-14 BARTON

DST Test Number: 5

# Pressure vs. Time



Printed: 2010.01.23 @ 08:06:14

Ref. No: 16305

Superior Testers Enterprises LLC

Serial #: 8419

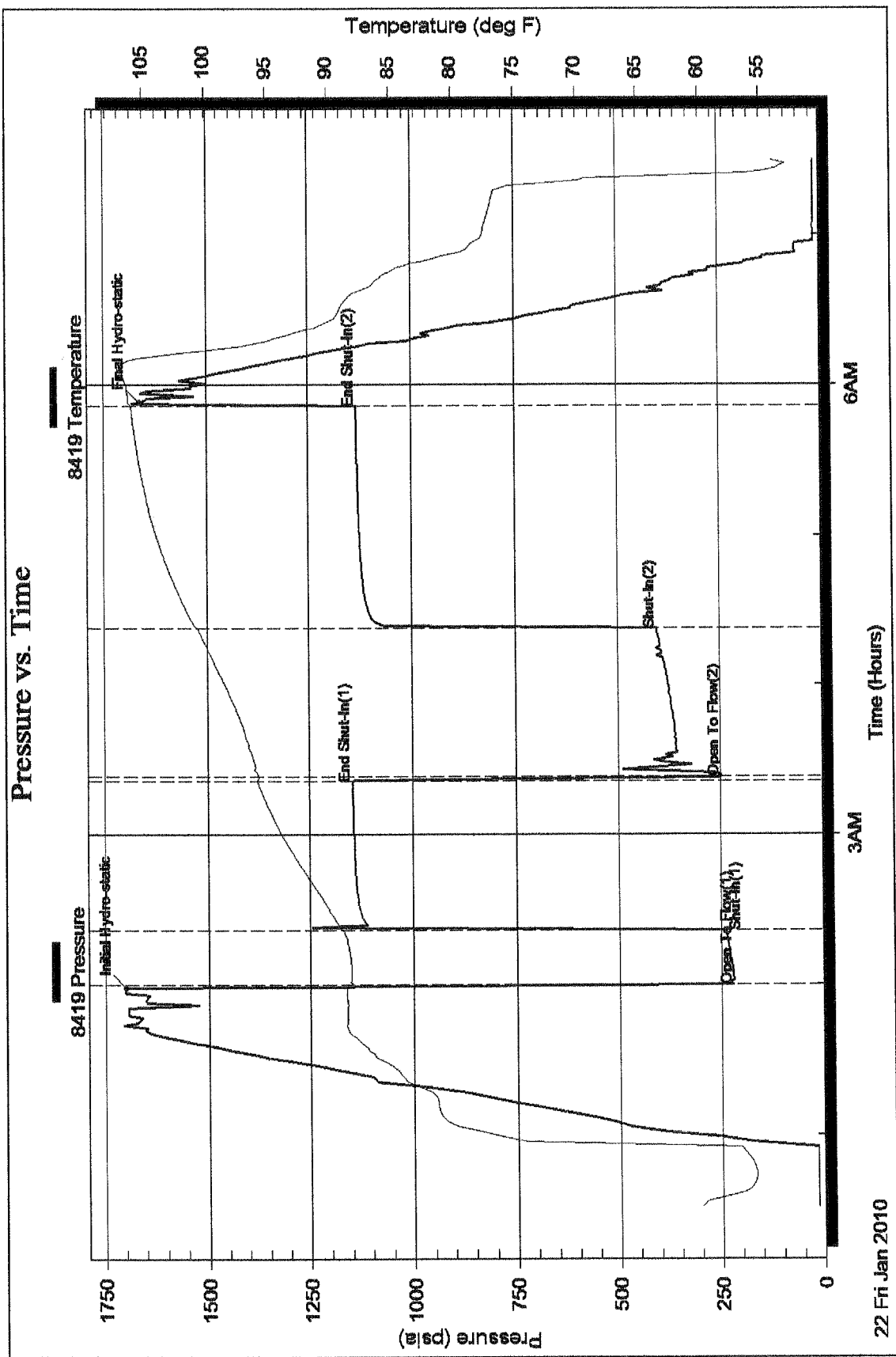
Outside

SHELBY RESOURCES L.L.C

24-17-14 BARTON

DST Test Number: 5

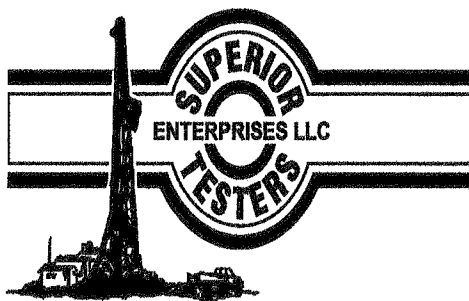
# Pressure vs. Time



Printed: 2010.01.23 @ 08:06:15

Ref. No: 16305

Superior Testers Enterprises LLC



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KCC WICHITA

## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

2717 CANAL BLVD  
HAYS KS 67601

ATTN: DEREK PATTERSON

**24-17-14 BARTON**

**CLARK #1-24**

Start Date: 2010.01.23 @ 01:30:00

End Date: 2010.01.23 @ 07:51:30

Job Ticket #: 16306 DST #: 6

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

Printed: 2010.01.23 @ 20:25:16

SHELBY RESOURCES L.L.C

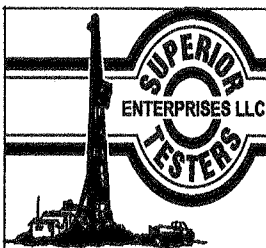
CLARK #1-24

24-17-14 BARTON

DST # 6

ARBUCKLE

2010.01.23



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16306

DST#: 6

ATTN: DEREK PATTERSON

Test Start: 2010.01.23 @ 01:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:43:00

Time Test Ended: 07:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3453.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: **8405**

Inside

Press@RunDepth: 195.59 psia @ 3455.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.23

End Date: 2010.01.23

Last Calib.: 2010.01.23

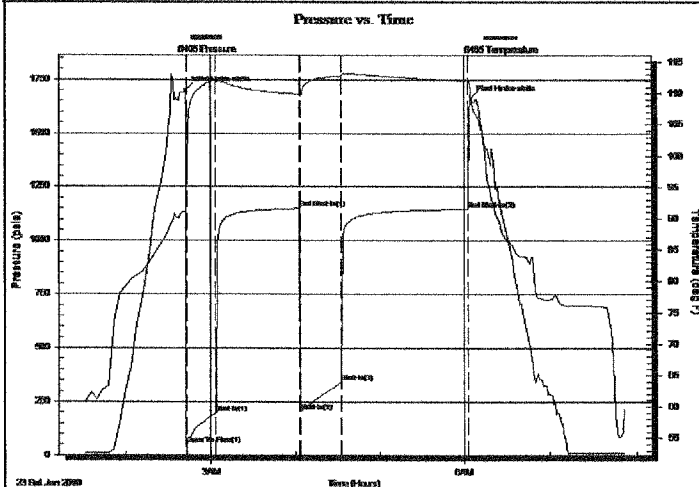
Start Time: 01:32:00

End Time: 07:51:30

Time On Btm: 2010.01.23 @ 02:42:00

Time Off Btm: 2010.01.23 @ 06:05:00

TEST COMMENT: 20/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES  
60/INITIAL SHUT IN:NO BLOW BACK  
30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 10 MINUTES  
90/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

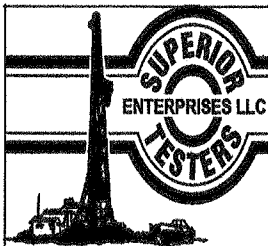
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1702.24         | 91.10        | Initial Hydro-static |
| 1           | 50.81           | 99.17        | Open To Flow (1)     |
| 21          | 195.59          | 112.02       | Shut-In(1)           |
| 81          | 1148.97         | 109.88       | End Shut-In(1)       |
| 82          | 206.45          | 109.59       | Shut-In(2)           |
| 111         | 340.63          | 112.82       | Shut-In(3)           |
| 201         | 1146.81         | 111.99       | End Shut-In(2)       |
| 203         | 1662.96         | 110.16       | Final Hydro-static   |

## Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 660.00      | MUDDY WATER 5%M 95%W | 7.35         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16306

DST#: 6

ATTN: DEREK PATTERSON

Test Start: 2010.01.23 @ 01:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:43:00

Time Test Ended: 07:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-40-GB

Interval: **3453.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: **8419** Outside

Press@RunDepth: 1147.69 psia @ 3455.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.23

End Date:

2010.01.23

Last Calib.:

2010.01.23

Start Time: 01:31:00

End Time:

07:52:30

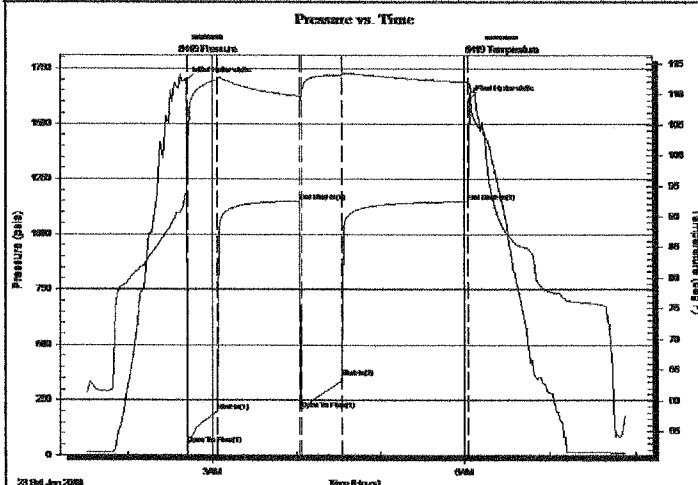
Time On Btm:

2010.01.23 @ 02:41:30

Time Off Btm:

2010.01.23 @ 06:03:30

TEST COMMENT: 20/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES  
60/INITIAL SHUT IN:NO BLOW BACK  
30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 10 MINUTES  
90/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

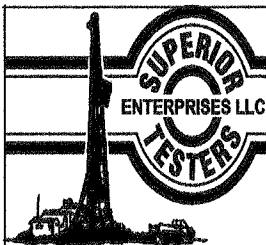
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1694.49         | 93.87        | Initial Hydro-static |
| 1           | 49.35           | 101.89       | Open To Flow (1)     |
| 22          | 199.88          | 112.28       | Shut-In(1)           |
| 81          | 1149.47         | 109.72       | End Shut-In(1)       |
| 82          | 206.90          | 109.96       | Open To Flow (2)     |
| 111         | 352.65          | 113.19       | Shut-In(2)           |
| 201         | 1147.69         | 111.99       | End Shut-In(2)       |
| 202         | 1612.70         | 111.67       | Final Hydro-static   |

## Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 660.00      | MUDDY WATER 5%M 95%W | 7.35         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16306

DST#: 6

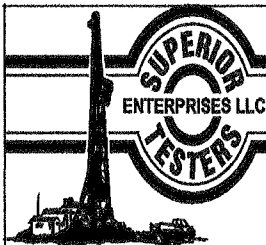
ATTN: DEREK PATTERSON

Test Start: 2010.01.23 @ 01:30:00

## Tool Information

|                                 |                    |                       |                   |                                    |
|---------------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:                     | Length: 3227.00 ft | Diameter: 3.80 inches | Volume: 45.27 bbl | Tool Weight: 10000.00 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: 72000.00 lb  |
|                                 |                    | Total Volume:         | 46.30 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:            | 8.00 ft            |                       |                   | String Weight: Initial 65000.00 lb |
| Depth to Top Packer:            | 3453.00 ft         |                       |                   | Final 70000.00 lb                  |
| Depth to Bottom Packer:         | ft                 |                       |                   |                                    |
| Interval between Packers:       | 7.00 ft            |                       |                   |                                    |
| Tool Length:                    | 31.00 ft           |                       |                   |                                    |
| Number of Packers:              | 1                  | Diameter: 6.75 inches |                   |                                    |
| Tool Comments: CHLORIDES 10,000 |                    |                       |                   |                                    |

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths             |
|--------------------|-------------|------------|----------|------------|----------------------------|
| Change Over Sub    | 1.00        |            |          | 3430.00    |                            |
| Shut-In Tool       | 5.00        |            |          | 3435.00    |                            |
| Hydraulic Tool     | 5.00        |            |          | 3440.00    |                            |
| Jars               | 6.00        |            |          | 3446.00    |                            |
| Safety Joint       | 2.00        |            |          | 3448.00    |                            |
| Packer             | 5.00        |            |          | 3453.00    | 24.00 Bottom Of Top Packer |
| Perforations       | 2.00        |            |          | 3455.00    |                            |
| Recorder           | 0.00        | 8405       | Inside   | 3455.00    |                            |
| Recorder           | 0.00        | 8419       | Outside  | 3455.00    |                            |
| Bullnose           | 5.00        |            |          | 3460.00    | 7.00 Anchor Tool           |
| Total Tool Length: | 31.00       |            |          |            |                            |



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURCES L.L.C

CLARK #1-24

2717 CANAL BLVD  
HAYS KS 67601

24-17-14 BARTON

Job Ticket: 16306

DST#: 6

ATTN: DEREK PATTERSON

Test Start: 2010.01.23 @ 01:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 81.00 sec/qt

Water Loss: 7.60 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7800.00 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<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 660.00       | MUDDY WATER 5%M 95%W | 7.345         |

Total Length: 660.00 ft Total Volume: 7.345 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

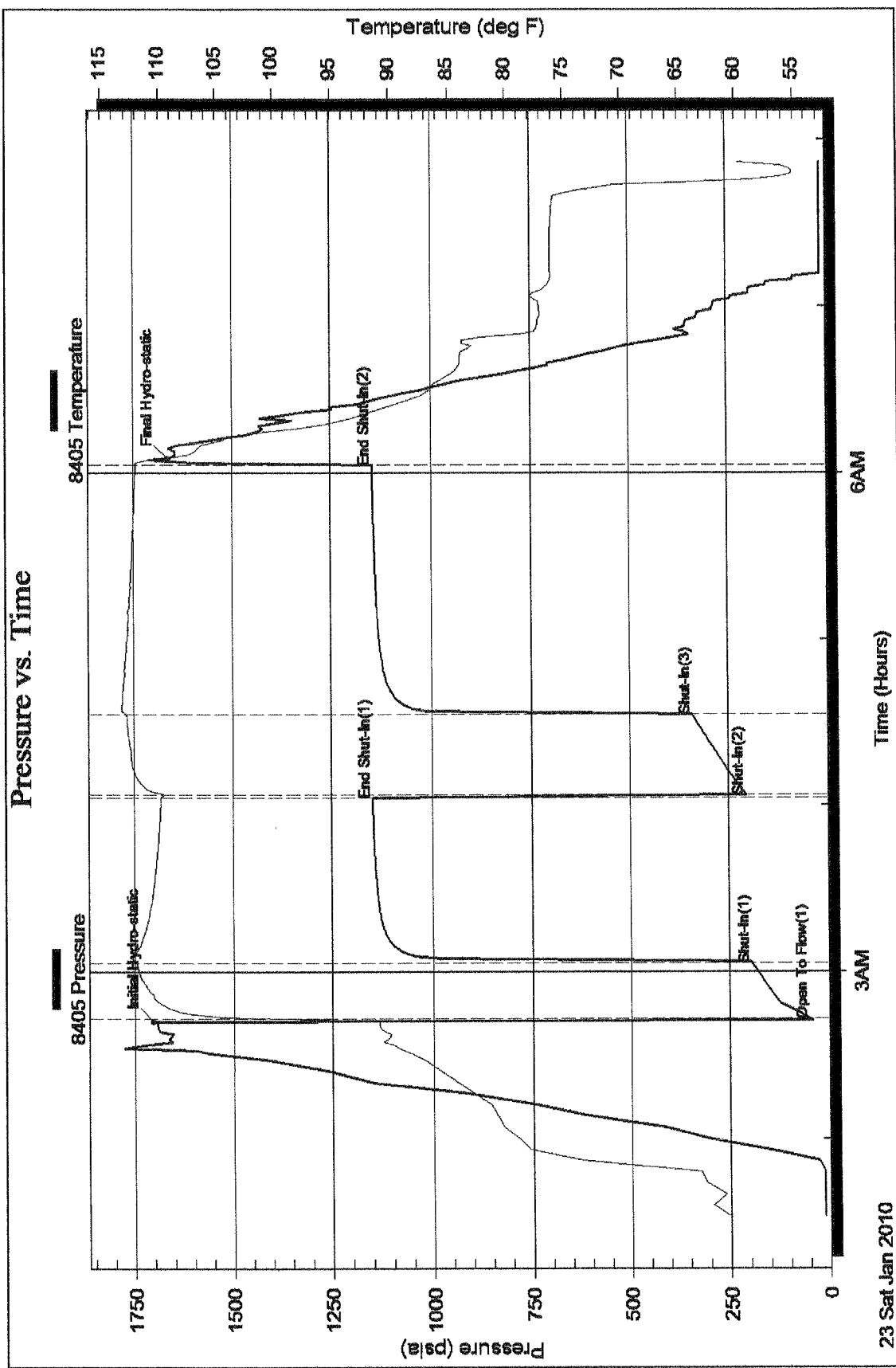
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES 10,000 RESISTIVITY 1. 60 DEGRESS

# Pressure vs. Time



Serial #: 8419

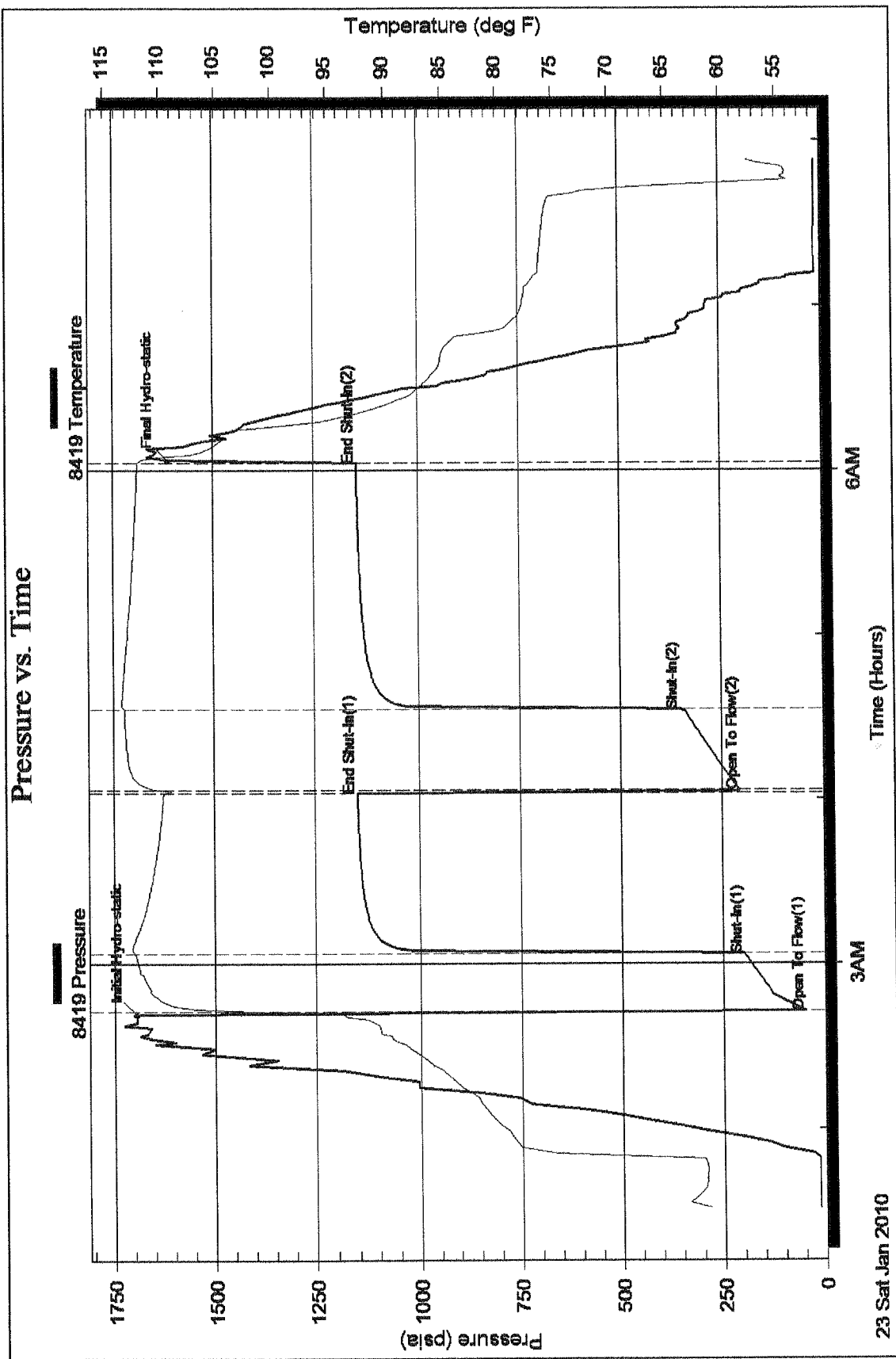
Outside

SHELBY RESOURCES L.L.C

24-17-14 BARTON

DST Test Number: 6

# Pressure vs. Time



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Superior Testers Enterprises LLC