



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1193124
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1193124

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | | | | |
|---|--|------------------------------|----------------------------------|---------------------------------|
| Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | American Warrior, Inc. |
| Well Name | Bertrand 2-26 |
| Doc ID | 1193124 |

All Electric Logs Run

| |
|-----------|
| |
| Induction |
| Porosity |
| Micro |
| Sonic |



266248

TICKET NUMBER 43044
 LOCATION Oakley, Mo.
 FOREMAN Dawn

PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|-------------------------------------|--------------|--------------------|--|----------------|----------------|----------------|
| 2/28/14 | 1087 | Bertrand #2-26 | 26 | 11 | 33 | Logan |
| CUSTOMER American Warrior | | | Oakley 3W 3S 1 1/2 E Sinto | | | |
| MAILING ADDRESS 3118 Cummings Rd | | | | | | |
| CITY Garden City | STATE Mo. | ZIP CODE 67846 | TRUCK # 57 | DRIVER Cory | TRUCK # 466 | DRIVER Cody |

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4740 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 2620 TUBING _____ OTHER _____
 SLURRY WEIGHT 12.5 To 13 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting Rig up on Duke #8 Plug as ordered

- 1st 2620' - 25 SKs
- 2nd 1610' - 100 SKs
- 3rd 370' - 40 SKs 220 SKs 6 3/4 4% Gel 1/4 #Flo Seal
- 4th 40' - 10 SKs
- Plug Mousehole 15 SKs
- Plug Rathole 30 SKs

Thanks Dawn & Crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|-----------|
| 5401 | 1 | PUMP CHARGE | \$1395.00 | \$1395.00 |
| 5406 | 10 | MILEAGE | \$5.25 | \$52.50 |
| 5407 | 9.46 | Ten Mileage Delivery | \$1.75 | \$430.00 |
| 1131 | 220 SKs | 6 3/4 4% Poz mix | \$15.86 | \$3489.00 |
| 1118 B | 757 * | Bentonite | \$.27 | \$204.39 |
| 1107 | 55 * | Flo Seal | \$2.97 | \$163.35 |
| 1111 | 100 * | Salt | NC | NC |
| 4432 | 1 | 8 5/8 Wooden plug | \$100.75 | \$100.75 |
| | | | Sub Total | \$5835.14 |
| | | | Less 10% | \$583.51 |
| | | | Sub Total | \$5251.63 |
| | | | SALES TAX | 272.49 |
| | | | ESTIMATED TOTAL | 5524.16 |

completed

AUTHORIZATION [Signature] TITLE T.P. DATE 2-28-14

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kurt Talbott

26-11s-33w Logan, KS

Bertrand 2-26

Job Ticket: 55636

DST#: 1

Test Start: 2014.02.22 @ 22:47:10

GENERAL INFORMATION:

Formation: **Lansing A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:39:40

Time Test Ended: 07:23:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4047.00 ft (KB) To 4110.00 ft (KB) (TVD)

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3117.00 ft (KB)

3109.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 900.55 psig @ 4048.00 ft (KB)

Start Date: 2014.02.22

End Date: 2014.02.23

Start Time: 22:47:15

End Time: 07:23:10

Capacity: 8000.00 psig

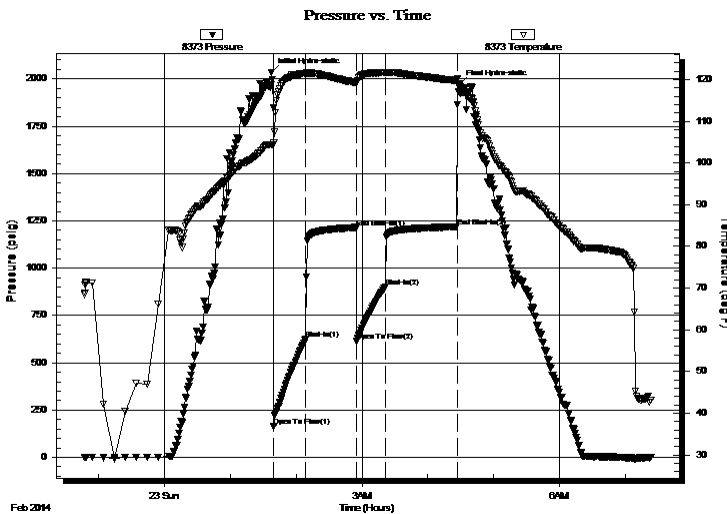
Last Calib.: 2014.02.23

Time On Btm: 2014.02.23 @ 01:37:40

Time Off Btm: 2014.02.23 @ 04:28:40

TEST COMMENT: IF: BOB in 2 min.
IS: No return.
FF: BOB in 2 1/2 min.
FS: No return.

PRESSURE SUMMARY



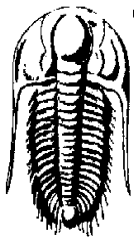
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2034.62 | 104.33 | Initial Hydro-static |
| 2 | 166.24 | 104.76 | Open To Flow (1) |
| 31 | 625.09 | 121.36 | Shut-In(1) |
| 77 | 1215.21 | 119.29 | End Shut-In(1) |
| 78 | 612.53 | 118.97 | Open To Flow (2) |
| 104 | 900.55 | 121.58 | Shut-In(2) |
| 169 | 1217.40 | 119.81 | End Shut-In(2) |
| 171 | 1972.14 | 116.85 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 1364.00 | mcw 95%w 5%m | 19.13 |
| 248.00 | mcw 80%w 20%m | 3.48 |
| 288.00 | mw 50%w 50%m | 4.04 |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 3118 Cummings Rd
 Garden City, KS 67846
 ATTN: Kurt Talbott

26-11s-33w Logan, KS

Bertrand 2-26

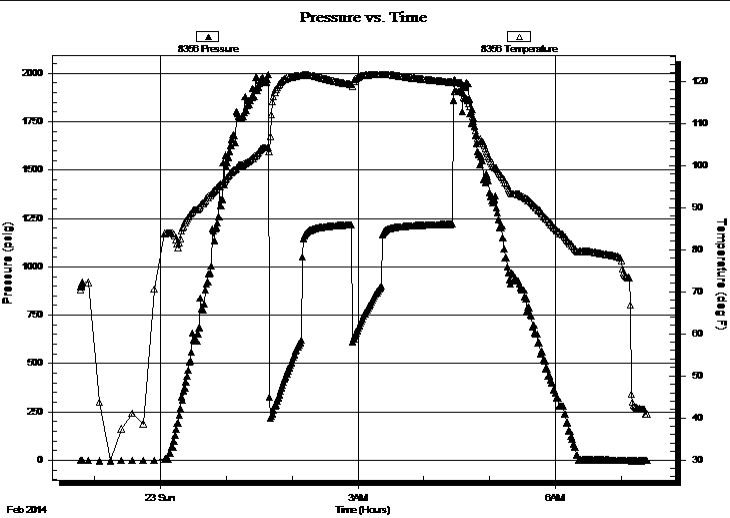
Job Ticket: 55636 **DST#: 1**
 Test Start: 2014.02.22 @ 22:47:10

GENERAL INFORMATION:

Formation: **Lansing A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:39:40
 Time Test Ended: 07:23:10
 Interval: **4047.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: 4110.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3117.00 ft (KB)
 3109.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8356 Outside
 Press @ Run Depth: psig @ 4048.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.22 End Date: 2014.02.23 Last Calib.: 2014.02.23
 Start Time: 22:47:13 End Time: 07:23:08 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 2 min.
 IS: No return.
 FF: BOB in 2 1/2 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 1364.00 | mcw 95%w 5%m | 19.13 |
| 248.00 | mcw 80%w 20%m | 3.48 |
| 288.00 | mw 50%w 50%m | 4.04 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kurt Talbott

26-11s-33w Logan, KS
Bertrand 2-26
Job Ticket: 55636 **DST#: 1**
Test Start: 2014.02.22 @ 22:47:10

Mud and Cushion Information

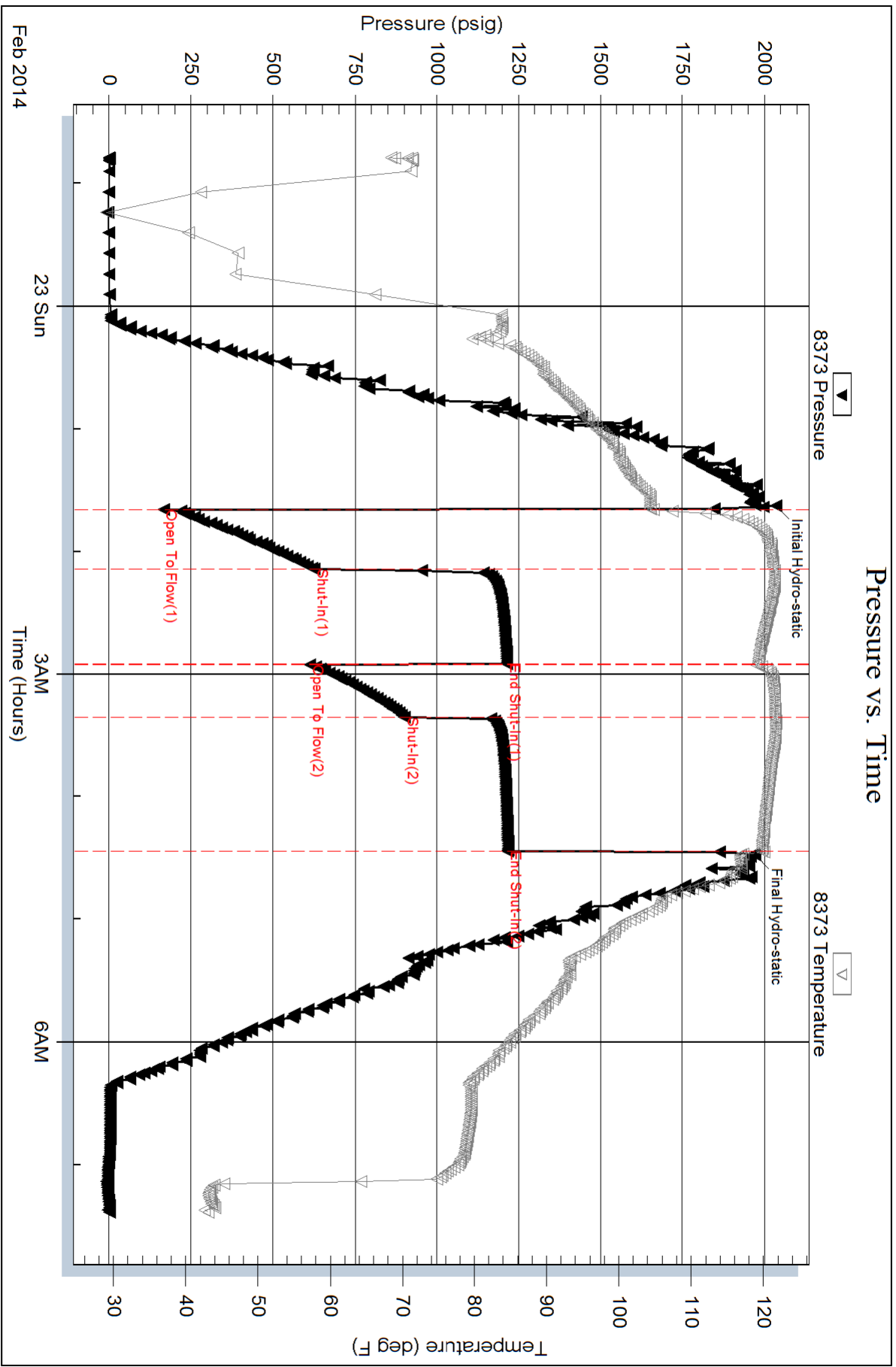
| | | |
|----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 42000 ppm |
| Viscosity: 51.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 6.40 in ³ | Gas Cushion Type: | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 2400.00 ppm | | |
| Filter Cake: 1.00 inches | | |

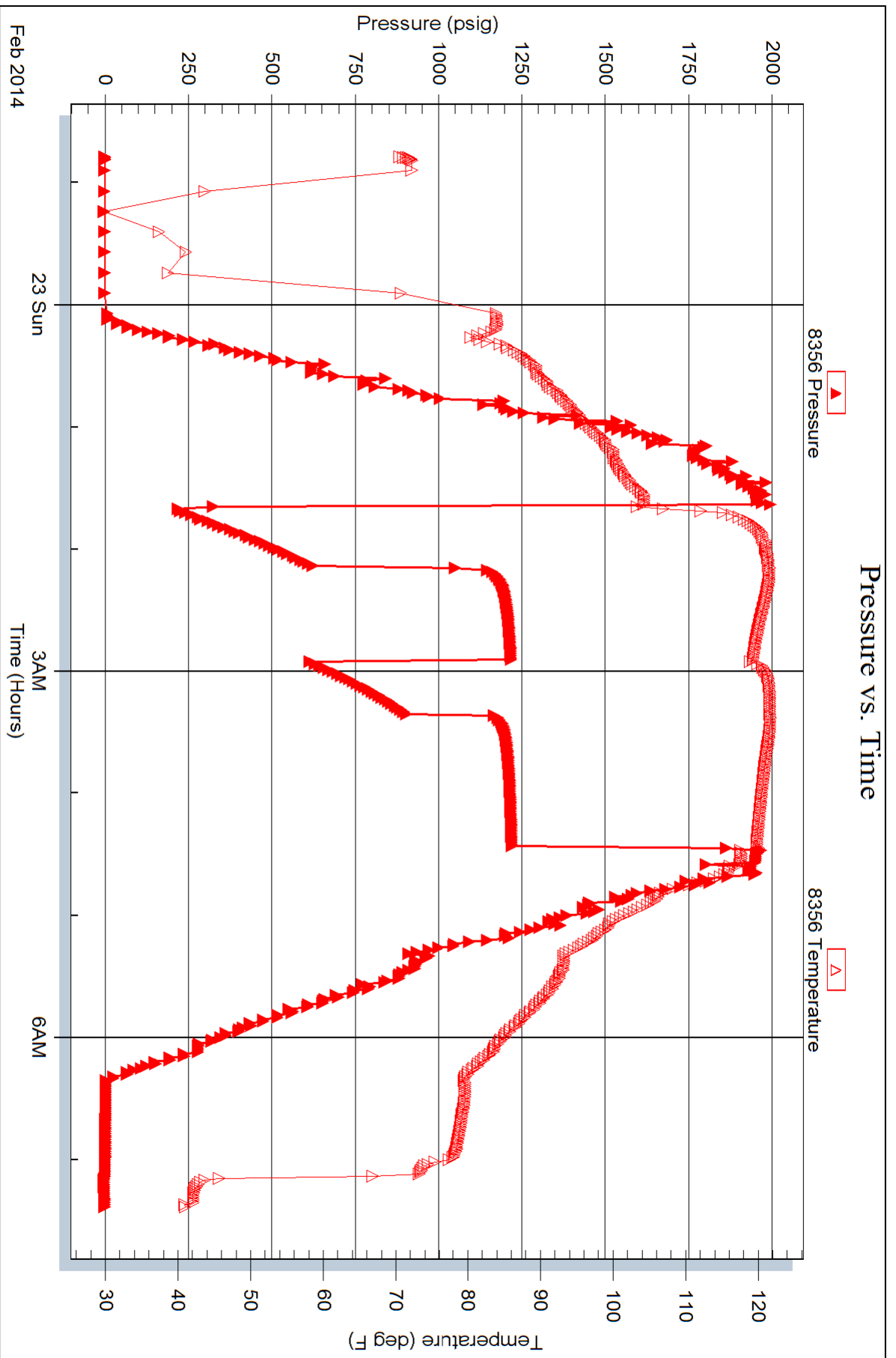
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 1364.00 | mcw 95%w 5%m | 19.133 |
| 248.00 | mcw 80%w 20%m | 3.479 |
| 288.00 | mw 50%w 50%m | 4.040 |

Total Length: 1900.00 ft Total Volume: 26.652 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .20@35=42000







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kurt Talbott

26-11s-33w Logan, KS

Bertrand 2-26

Job Ticket: 55637

DST#: 2

Test Start: 2014.02.24 @ 05:40:51

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:41:21
 Time Test Ended: 13:31:51
 Interval: **4224.00 ft (KB) To 4275.00 ft (KB) (TVD)**
 Total Depth: 4275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3117.00 ft (KB)
 3109.00 ft (CF)
 KB to GR/CF: 8.00 ft

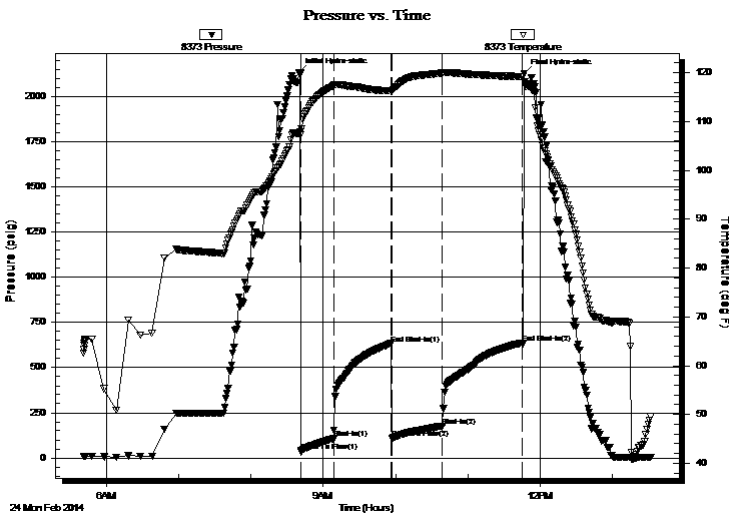
Serial #: 8373

Inside

Press@RunDepth: 176.78 psig @ 4225.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.24 End Date: 2014.02.24 Last Calib.: 2014.02.24
 Start Time: 05:40:56 End Time: 13:31:50 Time On Btm: 2014.02.24 @ 08:39:51
 Time Off Btm: 2014.02.24 @ 11:46:51

TEST COMMENT: IF: BOB in 16 min.
 IS: No return.
 FF: BOB in 32 min.
 FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2134.62 | 107.63 | Initial Hydro-static |
| 2 | 37.56 | 107.26 | Open To Flow (1) |
| 29 | 106.15 | 117.35 | Shut-In(1) |
| 76 | 632.67 | 116.28 | End Shut-In(1) |
| 77 | 109.71 | 116.21 | Open To Flow (2) |
| 119 | 176.78 | 119.96 | Shut-In(2) |
| 186 | 637.67 | 119.19 | End Shut-In(2) |
| 187 | 2126.21 | 118.10 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 124.00 | mcw 80%w 20%m | 1.74 |
| 124.00 | mcw 40%w 60%m | 1.74 |
| 92.00 | ocw m 2%o 28%w 70%m | 1.29 |
| 10.00 | free oil 100%o | 0.14 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kurt Talbott

26-11s-33w Logan, KS
Bertrand 2-26
Job Ticket: 55637 **DST#: 2**
Test Start: 2014.02.24 @ 05:40:51

Mud and Cushion Information

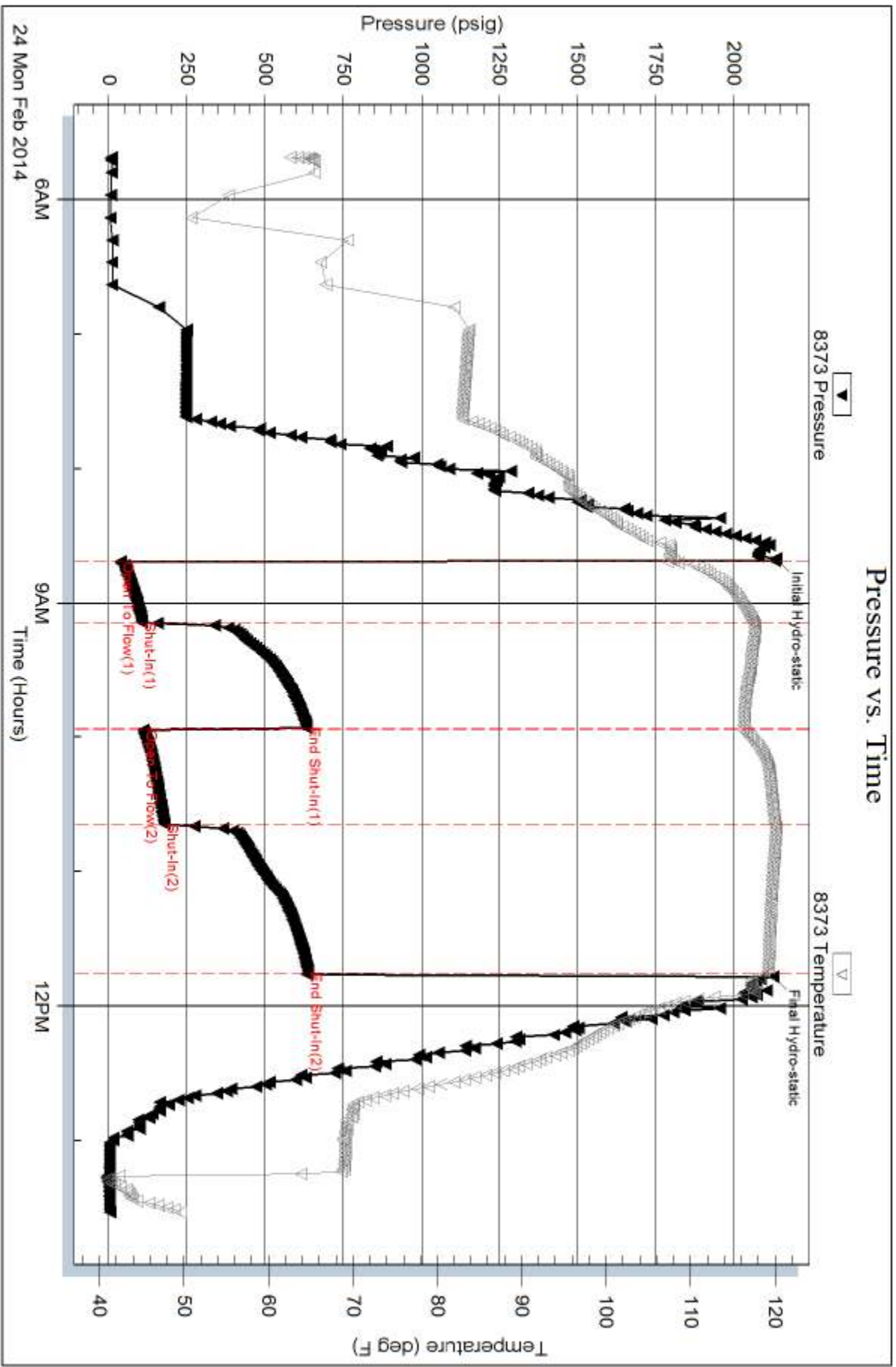
| | | |
|----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 53000 ppm |
| Viscosity: 57.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 8.79 in ³ | Gas Cushion Type: | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 3000.00 ppm | | |
| Filter Cake: 1.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 124.00 | mcw 80%w 20%m | 1.739 |
| 124.00 | mcw 40%w 60%m | 1.739 |
| 92.00 | ocw m 2%o 28%w 70%m | 1.291 |
| 10.00 | free oil 100%o | 0.140 |

Total Length: 350.00 ft Total Volume: 4.909 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .22@46=53000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kurt Talbott

26-11s-33w Logan, KS

Bertrand 2-26

Job Ticket: 55638

DST#: 3

Test Start: 2014.02.24 @ 22:07:37

GENERAL INFORMATION:

Formation: **K zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:20:07
 Time Test Ended: 05:19:07
 Interval: **4279.00 ft (KB) To 4310.00 ft (KB) (TVD)**
 Total Depth: 4310.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3117.00 ft (KB)
 3109.00 ft (CF)
 KB to GR/CF: 8.00 ft

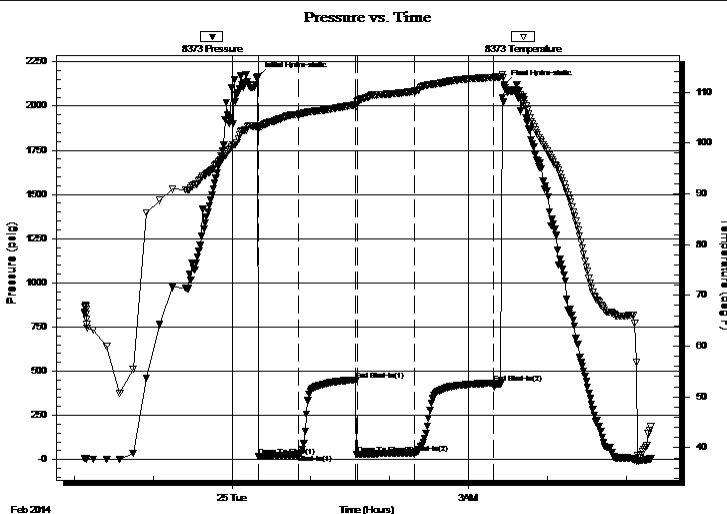
Serial #: 8373

Inside

Press @ Run Depth: 38.93 psig @ 4280.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.24 End Date: 2014.02.25 Last Calib.: 2014.02.25
 Start Time: 22:07:42 End Time: 05:19:06 Time On Btm: 2014.02.25 @ 00:19:37
 Time Off Btm: 2014.02.25 @ 03:27:07

TEST COMMENT: IF: Surface blow built to 1.
 IS: No return.
 FF: Surface blow built to 1.
 FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2165.10 | 103.32 | Initial Hydro-static |
| 1 | 19.48 | 102.76 | Open To Flow (1) |
| 31 | 27.40 | 105.54 | Shut-In(1) |
| 75 | 450.95 | 107.52 | End Shut-In(1) |
| 76 | 28.66 | 108.04 | Open To Flow (2) |
| 120 | 38.93 | 110.18 | Shut-In(2) |
| 180 | 433.94 | 112.91 | End Shut-In(2) |
| 188 | 2122.18 | 111.35 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 45.00 | mud oil spots 100%m | 0.63 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

26-11s-33w Logan, KS

3118 Cummings Rd
Garden City, KS 67846

Bertrand 2-26

Job Ticket: 55638

DST#: 3

ATTN: Kurt Talbott

Test Start: 2014.02.24 @ 22:07:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 45.00 | mud oil spots 100%m | 0.631 |

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

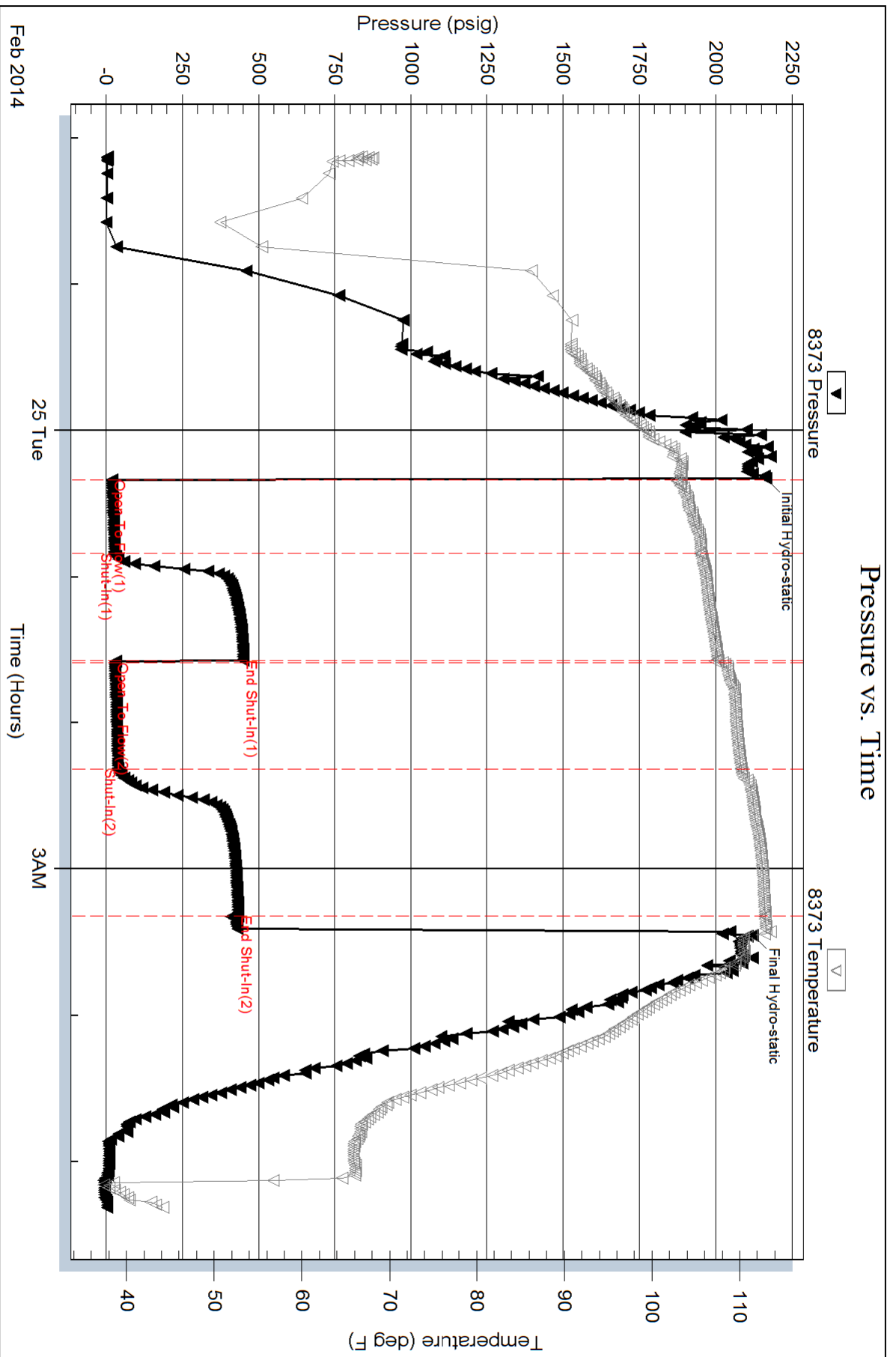
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Mudgrouve

Petroleum Corporation

Geologist's Report

Company: American Warrior, Inc
 Lease: Bertrand #2-26
 Field: Cook South
 Location: NW-SE-SE-NW
 Sec: 26 Twsp: 11S Rge: 33W
 County: Logan State: Kansas
 GL: 3109 KB: 3117

Contractor: Duke Drilling Company Rig #8
 Spud: 2/18 /14 Comp: 2/27/14
 RTD: 4740 LTD: 4740
 Mud Up: 3400' Type Mud: Chemical/Displaced

Samples Saved From: 3700' to RTD
 Drilling Time Kept From: 3700' to RTD
 Samples Examined From: 3700' to RTD
 Geological Supervision From: 3950' to RTD
 Geologist on Well: Kurt Talbott

Surface Casing: 8 5/8" @ 320'
 Production: None

Logs: By Pioneer: CNL/CDL, DIL, MEL

ROCK TYPES

| | | | | |
|----------|------------|------------|------------|----|
| Cht | Lmst fw<7 | shale, gry | shale, red | Ss |
| Cht vari | shale, grn | Carbon Sh | Shcol | |

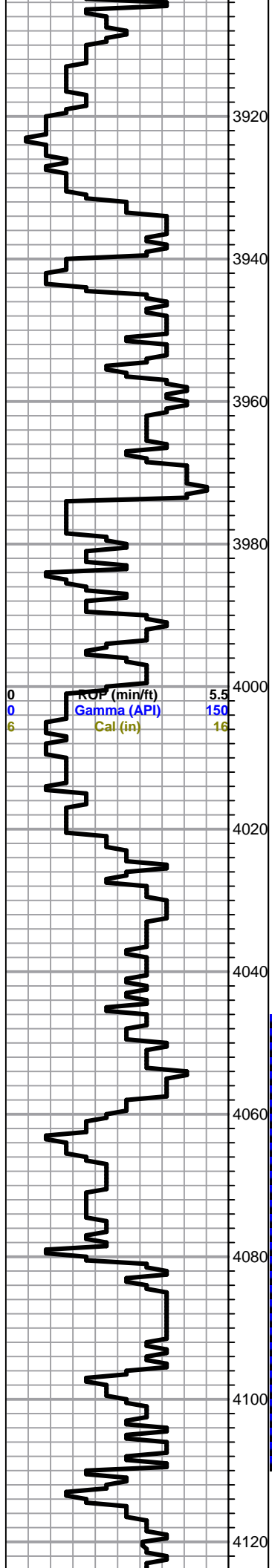
OTHER SYMBOLS

DST

| | |
|--|---------|
| | DST Int |
| | DST alt |

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

| Curve Track #1 | depth Intervals | hology | Show | TG, C1 - C5 |
|----------------|-------------------|--------|------|-------------------|
| ROP (min/ft) | | | | Total Gas (units) |
| Gamma (API) | | | | C1 (units) |
| Cal (in) | | | | C2 (units) |
| | | | | C3 (units) |



0 ROP (min/ft) 5.5
 0 Gamma (API) 150
 6 Cal (in) 16

Black carbon shale

Sand-gry, friable, well rounded, poor vis por,

A/A Ls- crm/wht, fxln, poor vis por, chalky

A/A

Ls- wht/crm, fxln, finely ool, slightly sucrosic, poor vis por, chalky, Sand- A/A Chert-crm/gry

Ls-crm/tan/lt gry, fxln, sucrosic, slightly dolomitic, poor scattered por, no vis shows chalky, chert-crm/gry

A/A Trace black carbon shale

A/A

Ls-crm/tan, -f-med xln, sucrosic, slightly dolomitic, poor scattered por, Chalky- chert-crm/tan

Heebner 4016.0 (-899.0)4018.0 (-901.0)

Black carbon shale

Ls-tan/gry, fxln, dense, scattered ool/fossils, scattered poor por, slightly chalky

A/A Shale-brown/red soft

Toronto 4042.0 (-925.0)4048.0 (-931.0)

Ls-crm/wht/tan, fxln, few fossils/ool, poor scattered iner xln por to sub oom por, chalky, no vis shows,

Lansing 4054.0 (-937.0)4060.0 (-943.0)

Ls-crm/tan/lt gry, fxln, slightly ool, dense, poor scattered poor por, chalky, no vis shows

Ls-crm/tan/wht, fxln, highly ool, dense, poor scattered iner xln to iner ool por, spotty dark brown to black stains, NSFO, no odor, chalky

Ls-tan/lt gry, fxln, ool, dense, poor vis por, cherty in part, slightly pyritic in part,

Ls-wht/lt gry, fxln, ool, fair ppt to iner xln por, ool, dark brown stains, SFO, fair odor, slightly chalky

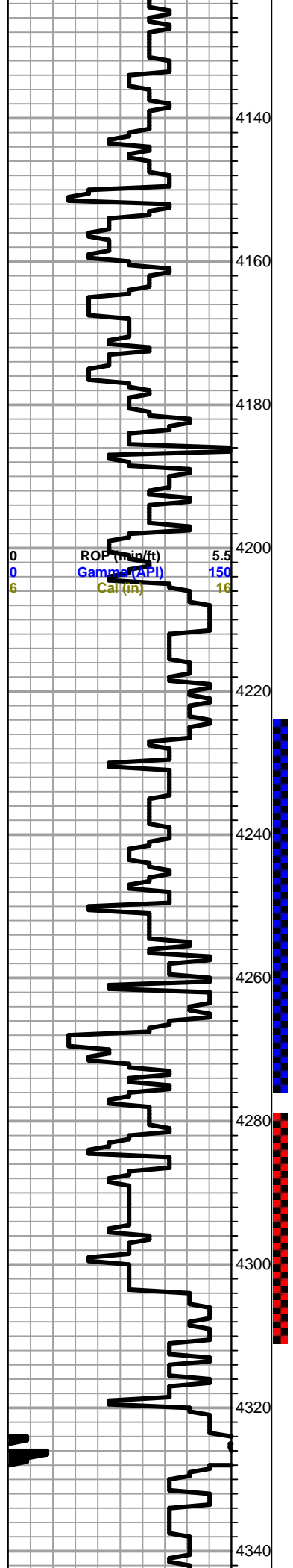
Ls- crm/tan/wht, fxln, slightly ool, dense, cherty in part, poor vis por, chert-tan/crm, slightly chalky

| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |

DST #1 4047-4109
 30-45-30-60
 IF: BOB 2 min
 ISI: No return

Recovery:
 288' MW (50w/50m)
 248' MCW (80w/20m)
 1364' MCW (95w/5m)

Pressures:
 ISIP 1215 psi
 FSIP 1217 psi
 IFP 166-625 psi
 FFP 612-900 psi
 HSH 2034-1972 psi



Ls-wht/crm, fxln, slightly ool, dense, poor vis por, chalky,

Ls-tan/lt gry, fxln, dense, ool, poor vis por, chert-tan/crm, Shale-gry/grn/brwn

Ls-crm/wht, fxln, ool, scattered ppt to iner xln por, slightly chalky, scattered dark brown/blk stains, NSFO, odor? chert-bone wht/gry

Ls-wht/lt gry, fxln, dense, poor vis por, chert-gry, chalky Shale-brwn/grn

Ls-crm/tan, fxln, dense, poor vis por, chalky,

Ls-wht/lt gry, fxln, dense, poor vis por, chalky, shale-brwn/grn faint odor

Ls-wht/crm/lt gry, fxln, dense, poor vis por, cher-gry/crm, slightly chalky, Shale-blk/brwn faint odor

Black carbon shale

Ls-tan/buff/lt gry, fxln, dense, scattered ppt por, broken open faint odor, trace stains, NSFO, chert-tan/gry

Ls-tan/buff, fxln, dense, slightly ool, poor iner xln por, spotty dark brown stains, spotty weak SFO, faint odor

Ls-tan/lt gry, fxln, dense, poor vis por, slightly chalky

Ls-wht/crm, fxln, dense, cherty in part, poor scattered por, trace spotty stains, TrSFO, faint odor, slightly chalky

Ls-crm/tan, fxln, slightly ool, scattered poor por, spotty stains, NSFO, slightly chalky Shale-grn/brwn

Ls-crm/wht, fxln, slightly ool, poor vis pro, cherty, chalky, Trace Black carbon shale

Ls-tan/gry, fxln, ool, oom por, golden brown to dark brown stains, good SFO, fair odor, chert-tan/gry

Stark 4281.0 (-1164.0)4282.0 (-1165.0)

Black carbon shale

Ls-crm/tan, fxln, scattered finely vug por, trace stains, NSFO,

Ls-crm/wht, fxln, slightly ool, scattered fair finely vug to iner part. por, golden brown stains, Fair to good SFO, fair odor, chert-gry/crm

Ls-crm/tan/gry, fxln, ool, scattered poor por, dense, cherty, faint odor

Ls-tan/lt gry, fxln, dense, poor vis por, chert-boney wht/gry

Ls-wht/tan/gry, fxln, dense, ool, poor scattered por, trace stains, NSFO, no odor, chalky, chert-tan/gry

Ls-tan/lt gry, fxln, dense, poor vis por, trace spotty stains, NSFO, no odor, slightly chalky

| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |

DST #2 4224-4275
30-45-45-60

IF: BOB 16 minutes
ISI: No return

Recovery:
10' Oil
92' OGWM
(2%o 28%w 70% m)
124' WCM
(40w/60m)
124' MCW
(80w/20m)

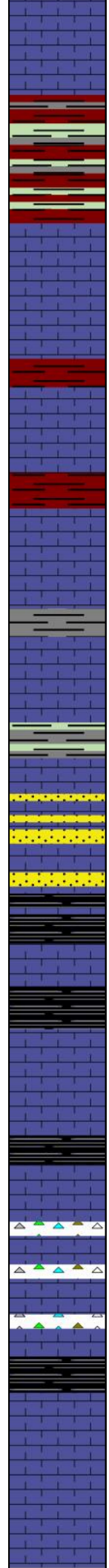
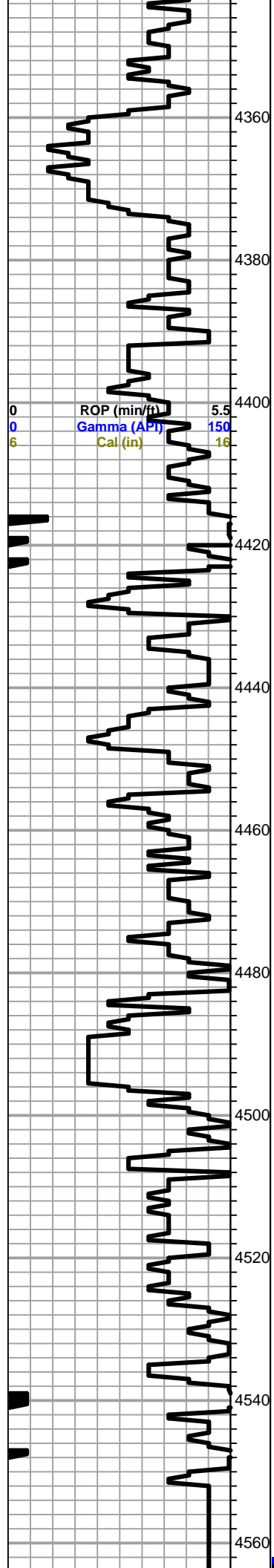
Pressures
ISIP 632 psi
FSIP 637 psi
IFP 37-106 psi
FFP 109-176 psi
HSH 2134-2126 psi

DST #3 4278-4310
30-45-45-60

IF: Built to 1'
ISI: No return

Recovery:
45' Mud w/oil spots

Pressures:
ISIP 450 psi
FSIP 433 psi
IFP 19-27 psi
FFP 28-38 psi
HSH 2165-2122 psi



Ls-lt gry, fxln, slightly ool, dense, cherty in part, poor vis por, chalky,

Ls-lt gry/tan, fxln, ool, poor vis por, dense, slightly chalky,

Shale- brwn/red/gry- soft,
Shale-gry-soft chalky

Marmaton 4374.0 (-1257.0)4376.0 (-1259.0)

Ls-tan/lt gry, dense, poor vis por, chery in part, slightly chalky

Ls-lt gry/tan, fxln, few fossils, dense, por vis por, slightly chalky,

Shale-brown/red-soft

Ls- lt gry/crm, fxln, dense, slightly ool, poor vis por, slightly chalky

Ls-gry, fxln, few fossils, poor vis por, chalky, shale-brwn/red,

Ls-gry/tan, fxln, slightly sucrosic, poor vis por, slightly chalky, shale-gry/brwn/blk, chert-gry/crm

Ls- & Chert A/A, Sand-gry, vfg, mostly well cemented, poor por,

A/A Shale- gry/grn

Ls-gry/tan, fxln, dense, poor vis por, chalky, Sand-A/A, Shale- blk/gry/grn

Ls-gry/tan, fxln, poor vis por, cherty in part, slightly chalky, Shale- A/A

Ls- gry/tan, fxln, slightly granular, dense, cherty in part,
Trace black carbon shale

Pawnee 4485.0 (-1368.0)4485.0 (-1368.0)

Ls-buff/gry, fxln, few fossils, dense, poor vis por, chert-gry/tan

Shale-black carbon

Ls-tan/buff/gry, fxln, ool/fossils, dense, poor vis por, chert-gry/tan

Ls-tan/buff, fxln, ool/fossils, poor vis por, cherty in part, slightly chalky

Black carbon shale, chert-tan/buff/gry

Fort Scott 4538.0 (-1421.0)4538.0 (-1421.0)

Ls-crm/tan, fxln, highly ool, dense, poor vis por, trace black carbon shale, chert-tan/crm

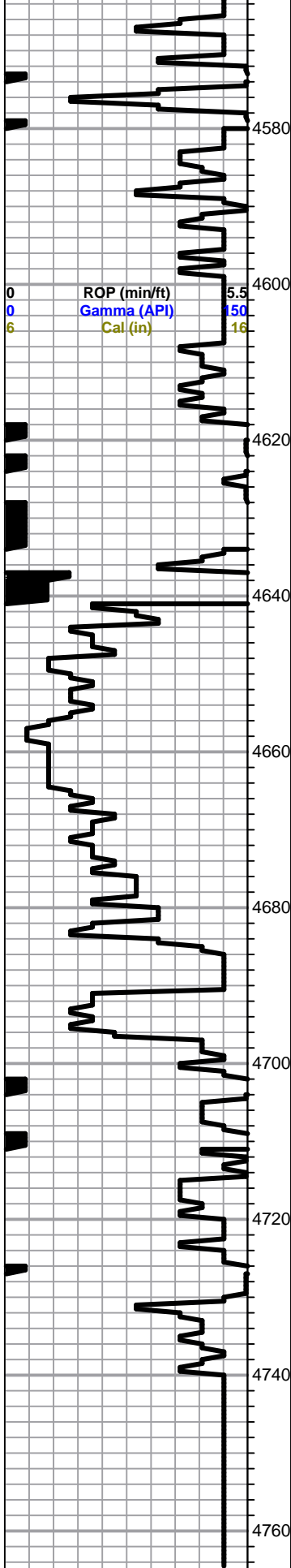
Ls-lt gry/tan, fxln, highly ool, poor vis por, slightly chalky

Cherokee 4565.0 (-1448.0)4566.0 (-1449.0)

| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |

DST #4 4563-4640
30-30-30-30
IF: Died In 7 min

Recovery:



0 ROP (min/ft) 5.5
 0 Gamma (API) 150
 6 Cal (in) 16

Black carbon shale

Ls-buff/tan, ool/fossil in part, poor por, dense, cherty in part, slightly chalky

Ls-tan/buff, fxln, highly ool, poor vis por, dense

Ls-crm/tan, fxln, ool, poor vis por, dense, slightly chalky

Ls-lt gry/tan, fxln highly ool, poor vis por, dense, slightly chalky trace black carbon shale

Ls-tan/buff, fxln, ool, cherty in part, poor iner xln to sub oom por, dark brown stains, Saturation, Fai odor, Good SFO,

Ls-tan/gry/buff, fxln, dense, few fossils, poo spotty por, dark brown to black stains, Fair SFO, fair odor, slightly chalky

Ls-crm/tan, fxln, dense, poor vis por, slightly chalk, shale-blk/grn chert- tan/crm

Shale- varying color, slightly sandy
Chert- smokey gry

A/A Sand-wht, fine to med grained, poorly sorted, friable, poor por

A/A

Ls-wht/crm/lt gry, slightly ool, poor vis por, ool, sucrosic, slightly chalky

Ls-cm/wht/lt gry, fxln, slightly granular ool, sucrosic, poor vis por, slightly chalky, Chert-tan/crm

Ls-tan/buff, fxln dense, ool, poor vis por, slightly chalky,

Ls-lt gry/tan, fxln, ool, slightly granuler, poor scattered iner xln por, chalky, chert-tan/crm

Ls-wht/crm, fxln, sucrosic, ool, poor ppt to iner xln por, slightly glauconitic, chalky,

Ls-tan/gry, fxln, ool, oom, poor sub oom por, chalky, shale-gry/grn

Total Depth 4740.0 (0.0)4740.0 (0.0)

5 mud

Pressures:

ISIP 100 psi

FSIP 51 psi

IFP 18-19 psi

FFP 21-51 psi

HSH 2398-2279 psi

| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |