

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

| 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 | | | | |
| | | | | |

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

| | | | | |
|---|--|---------|-------------|-----------------------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | |
| 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> | PRODUCTION INTERVAL: Top Bottom |
|---|---|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
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|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | Rockhound Petroleum, LLC |
| Well Name | BOOKSTORE 1 |
| Doc ID | 1710427 |

All Electric Logs Run

| |
|-------|
| |
| DIL |
| ML |
| POR |
| Sonic |

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | Rockhound Petroleum, LLC |
| Well Name | BOOKSTORE 1 |
| Doc ID | 1710427 |

Tops

| Name | Top | Datum |
|------------|------|-------|
| Anhy | 857 | 1089 |
| heebner | 3442 | -1496 |
| toronto | 3463 | -1517 |
| Douglas | 3482 | -1536 |
| Brown Lime | 3581 | -1635 |
| LKC | 3604 | -1658 |
| BKC | 3852 | -1906 |
| Miss | 3967 | -2021 |
| Viola | 4000 | -2054 |
| Simpson | 4063 | -2117 |
| Arbuckle | 4115 | -2169 |



Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Susan K. Duffy, Chair
Dwight D. Keen, Commissioner
Andrew J. French, Commissioner

Laura Kelly, Governor

August 28, 2023

keaton jones
Rockhound Petroleum, LLC
255 NE 30th St
ST. JOHN, KS 67576-0043

Re: ACO-1
API 15-185-24138-00-00
BOOKSTORE 1
SW/4 Sec.36-23S-14W
Stafford County, Kansas

Dear keaton jones:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 03/28/2023 and the ACO-1 was received on August 24, 2023 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70651

DST#: 1

ATTN: Keaton Jones

Test Start: 2023.04.01 @ 21:15:00

GENERAL INFORMATION:

Formation: **LKC B-F**

Deviated: No Whipstock: 1949.00 ft (KB)

Time Tool Opened: 23:24:02

Time Test Ended: 05:19:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3611.00 ft (KB) To 3678.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 3678.00 ft (KB) (TVD)

1939.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751

Outside

Press@RunDepth: 138.74 psig @ 3614.00 ft (KB)

Capacity: psig

Start Date: 2023.04.01

End Date:

2023.04.02

Last Calib.:

1899.12.30

Start Time: 21:15:01

End Time:

05:19:02

Time On Btm:

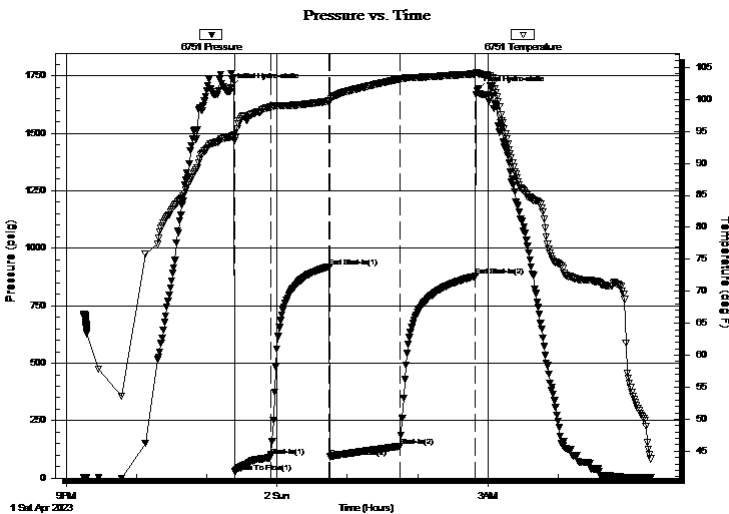
2023.04.01 @ 23:20:32

Time Off Btm:

2023.04.02 @ 02:51:02

TEST COMMENT: IF: 30 min., strong building blow , 9 inches
 IS: 45 min., no blow back
 FF: 60 min., BOB 40 min., strong building blow , 15.6 inches
 FS: 60 min., no blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1697.85 | 94.14 | Initial Hydro-static |
| 4 | 26.68 | 93.58 | Open To Flow (1) |
| 35 | 94.80 | 98.84 | Shut-In(1) |
| 84 | 919.90 | 99.73 | End Shut-In(1) |
| 85 | 92.73 | 99.63 | Open To Flow (2) |
| 145 | 138.74 | 103.18 | Shut-In(2) |
| 209 | 878.07 | 104.00 | End Shut-In(2) |
| 211 | 1685.14 | 104.20 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 183.00 | oil spotted muddy w ater 95%W, 5%M | 1.47 |
| 63.00 | oil spotted w atery mud 30%W, 70%M | 0.88 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70651

DST#: 1

ATTN: Keaton Jones

Test Start: 2023.04.01 @ 21:15:00

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:

23000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|------------------------------------|----------------|
| 183.00 | oil spotted muddy w ater 95%W, 5%M | 1.474 |
| 63.00 | oil spotted w atery mud 30%W, 70%M | 0.884 |

Total Length: 246.00 ft Total Volume: 2.358 bbl

Num Fluid Samples: 0

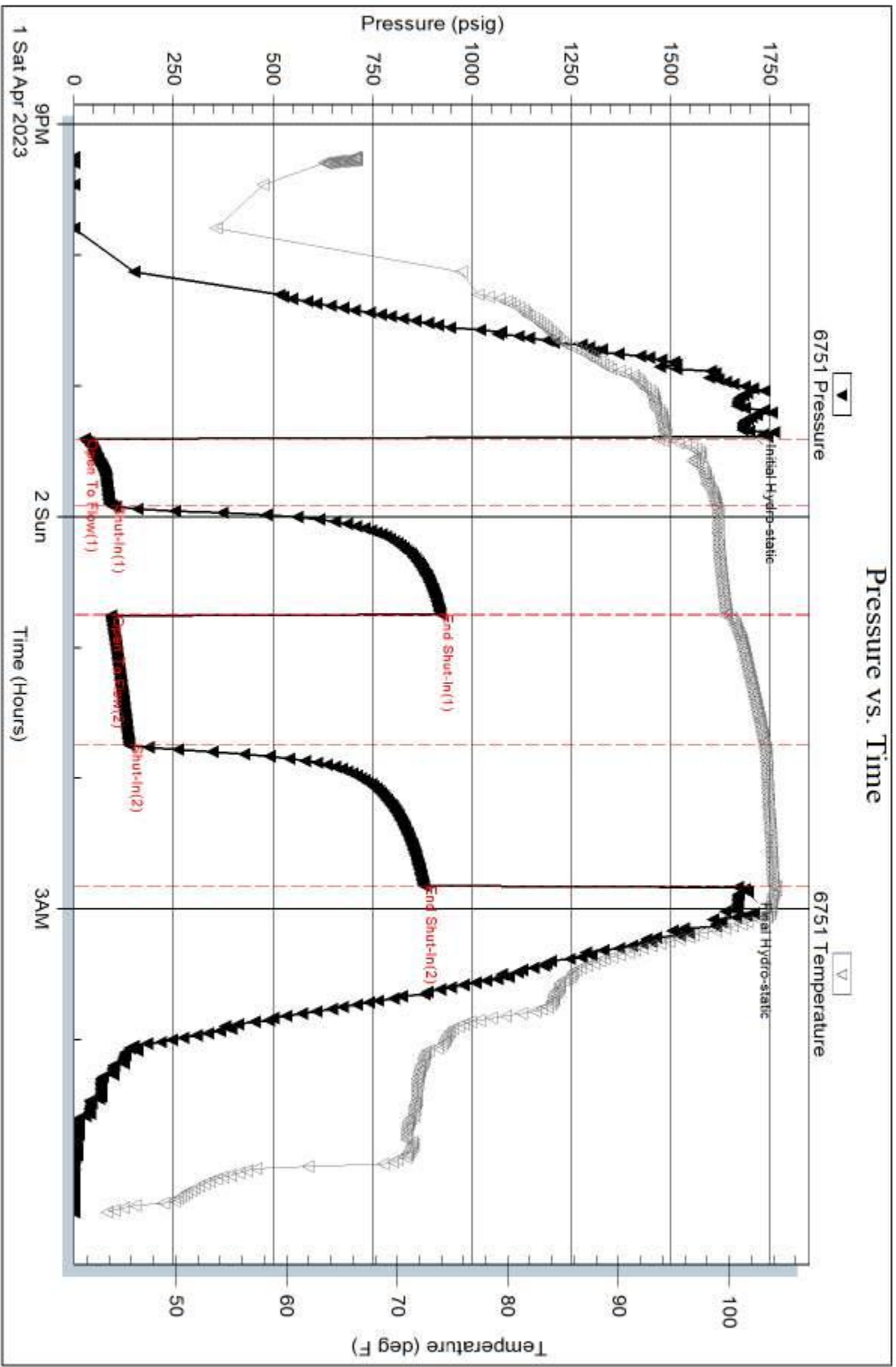
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.341@60F=23000ppm



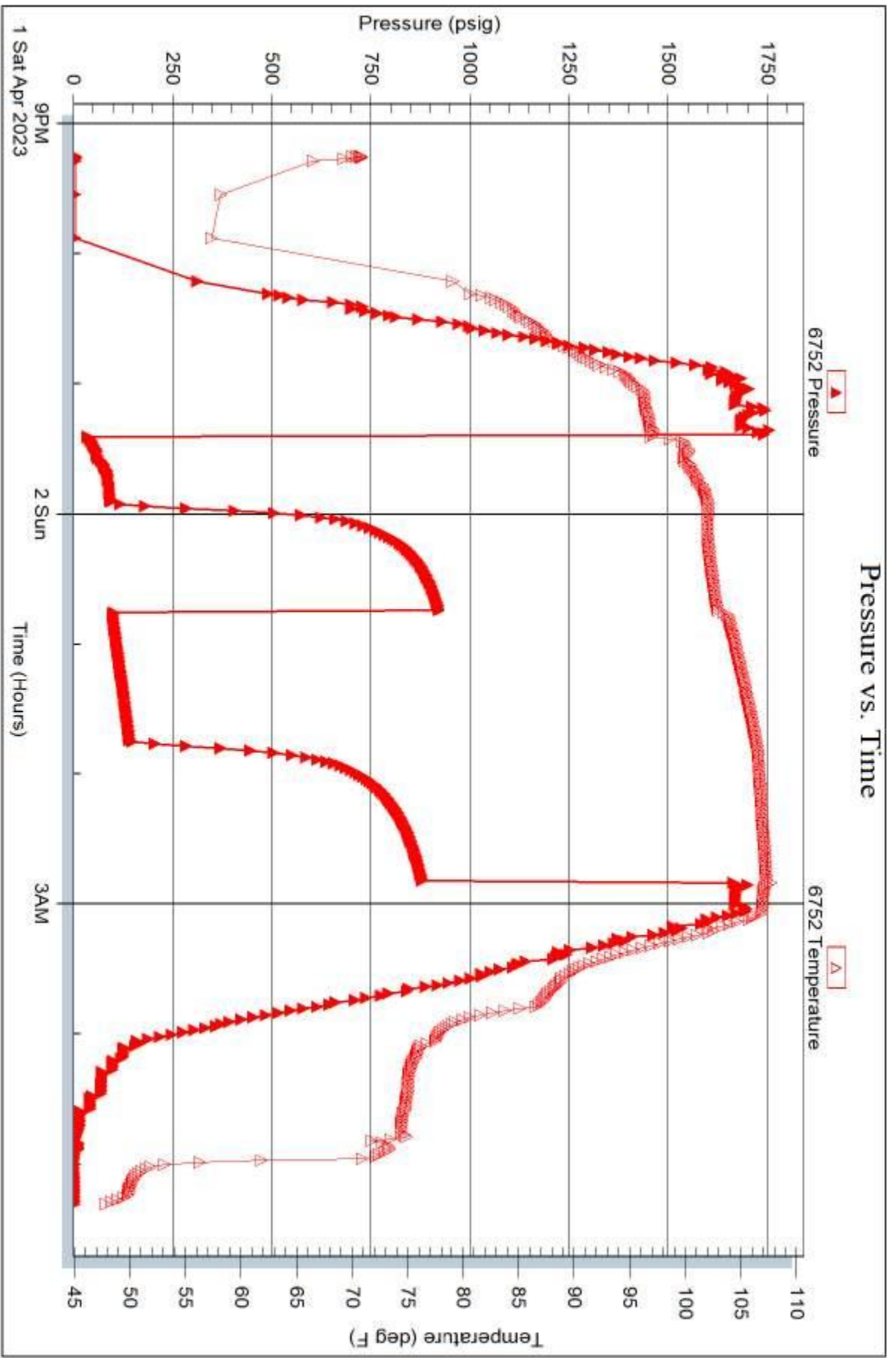
Serial #: 6752

Inside

Rockhound Petroleum, LLC

Bookstore 1

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70652

DST#: 2

ATTN: Keaton Jones

Test Start: 2023.04.02 @ 14:05:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: 1949.00 ft (KB)

Time Tool Opened: 16:10:47

Time Test Ended: 21:07:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3718.00 ft (KB) To 3735.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

1939.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press@RunDepth: 34.28 psig @ 3720.00 ft (KB)

Capacity: psig

Start Date: 2023.04.02

End Date:

2023.04.02

Last Calib.:

1899.12.30

Start Time: 14:05:01

End Time:

21:07:02

Time On Btm:

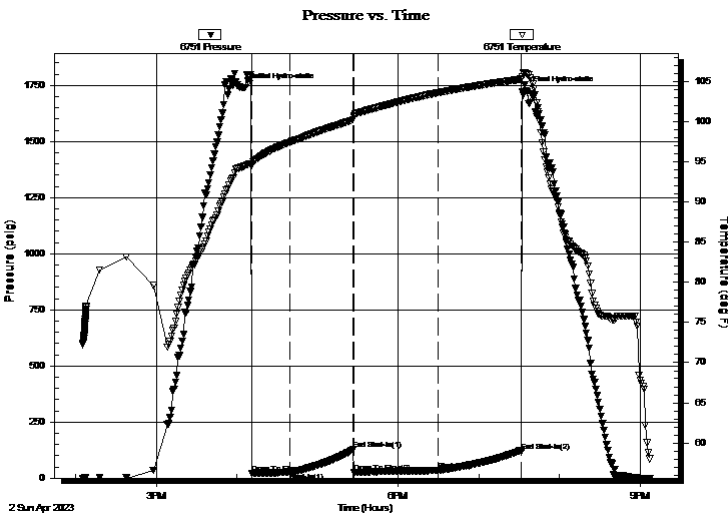
2023.04.02 @ 16:06:17

Time Off Btm:

2023.04.02 @ 19:35:17

TEST COMMENT: IF: 30 min., fair building blow , 2.4 inches
IS: 45 min., no blow back
FF: 60 min., weak building blow , 2.2 inches
FS: 60 min., no blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1739.32 | 94.56 | Initial Hydro-static |
| 5 | 20.76 | 94.49 | Open To Flow (1) |
| 33 | 25.83 | 97.44 | Shut-In(1) |
| 80 | 126.98 | 100.27 | End Shut-In(1) |
| 81 | 23.94 | 100.59 | Open To Flow (2) |
| 144 | 34.28 | 103.63 | Shut-In(2) |
| 206 | 120.55 | 105.35 | End Shut-In(2) |
| 209 | 1725.56 | 106.01 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 30.00 | SOCM 5%O,95%M | 0.15 |
| | | |
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Gas Rates

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



DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

ATTN: Keaton Jones

Job Ticket: 70652

DST#: 2

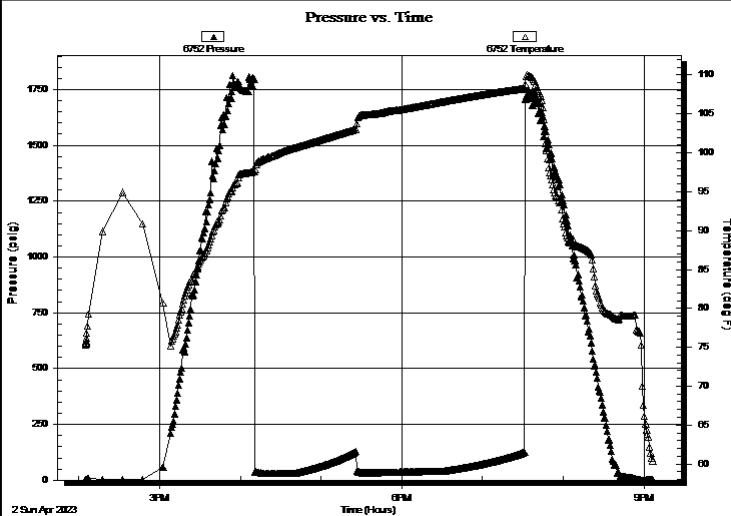
Test Start: 2023.04.02 @ 14:05:00

GENERAL INFORMATION:

| | | | |
|-------------------|---|-----------------------|------------------------------------|
| Formation: | LKC H | Test Type: | Conventional Bottom Hole (Initial) |
| Deviated: | No Whipstock: 1949.00 ft (KB) | Tester: | Chris Hagman |
| Time Tool Opened: | 16:10:47 | Unit No: | 69 |
| Time Test Ended: | 21:07:02 | Reference Elevations: | 1949.00 ft (KB) |
| Interval: | 3718.00 ft (KB) To 3735.00 ft (KB) (TVD) | | 1939.00 ft (CF) |
| Total Depth: | 3735.00 ft (KB) (TVD) | KB to GR/CF: | 10.00 ft |
| Hole Diameter: | 7.80 inches | Hole Condition: | Good |

| | | | |
|-----------------------|------------------------|---------------|------------|
| Serial #: 6752 | Inside | Capacity: | psig |
| Press@RunDepth: | psig @ 3720.00 ft (KB) | Last Calib.: | 1899.12.30 |
| Start Date: | 2023.04.02 | End Date: | 2023.04.02 |
| Start Time: | 14:05:01 | End Time: | 21:07:02 |
| | | Time On Btm: | |
| | | Time Off Btm: | |

TEST COMMENT: IF: 30 min., fair building blow , 2.4 inches
 IS: 45 min., no blow back
 FF: 60 min., weak building blow , 2.2 inches
 FS: 60 min., no blow back



PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 30.00 | SOCM 5% O, 95% M | 0.15 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70652

DST#: 2

ATTN: Keaton Jones

Test Start: 2023.04.02 @ 14:05:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 30.00 | SOCM 5%O,95%M | 0.148 |

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

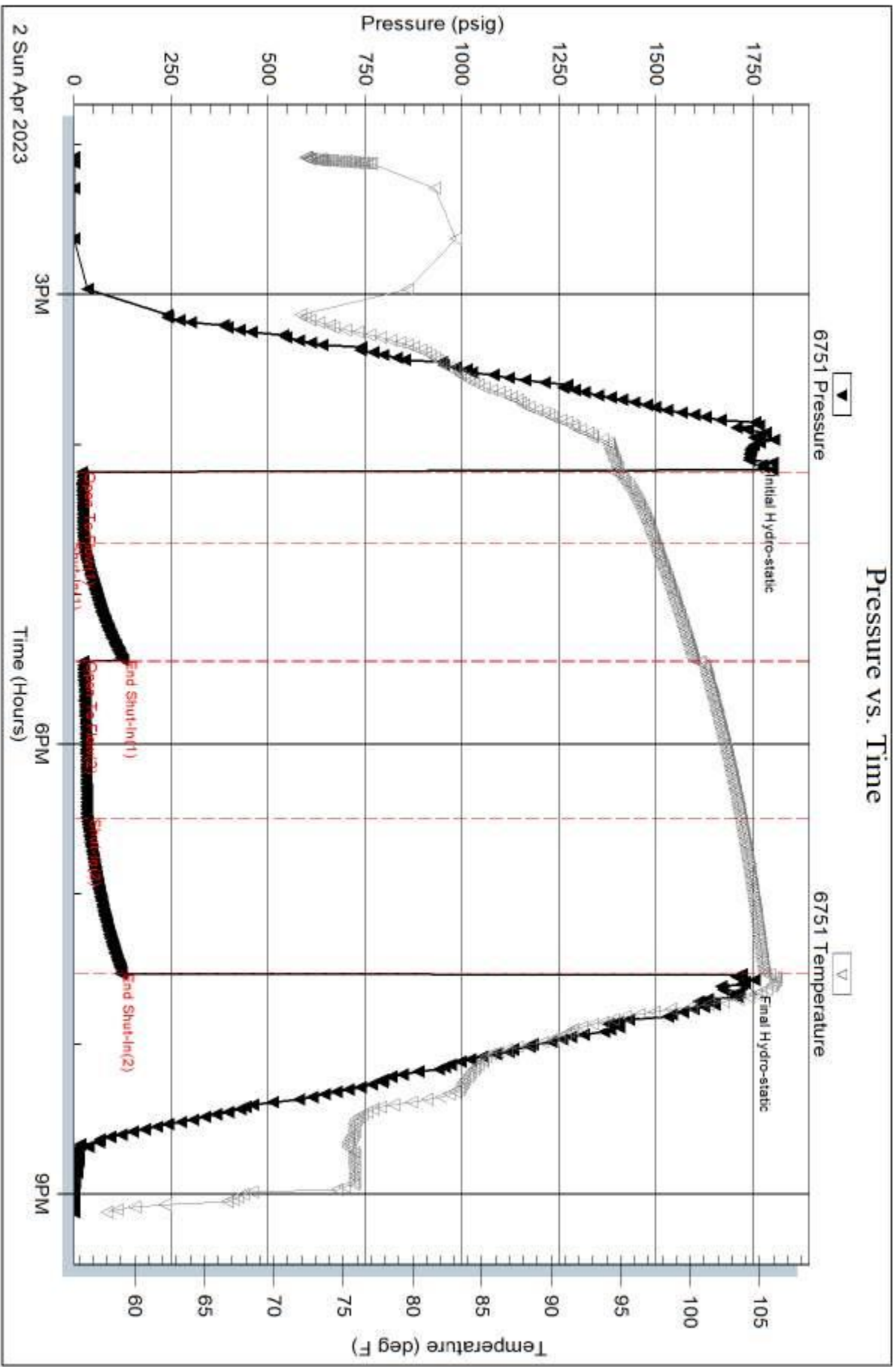
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



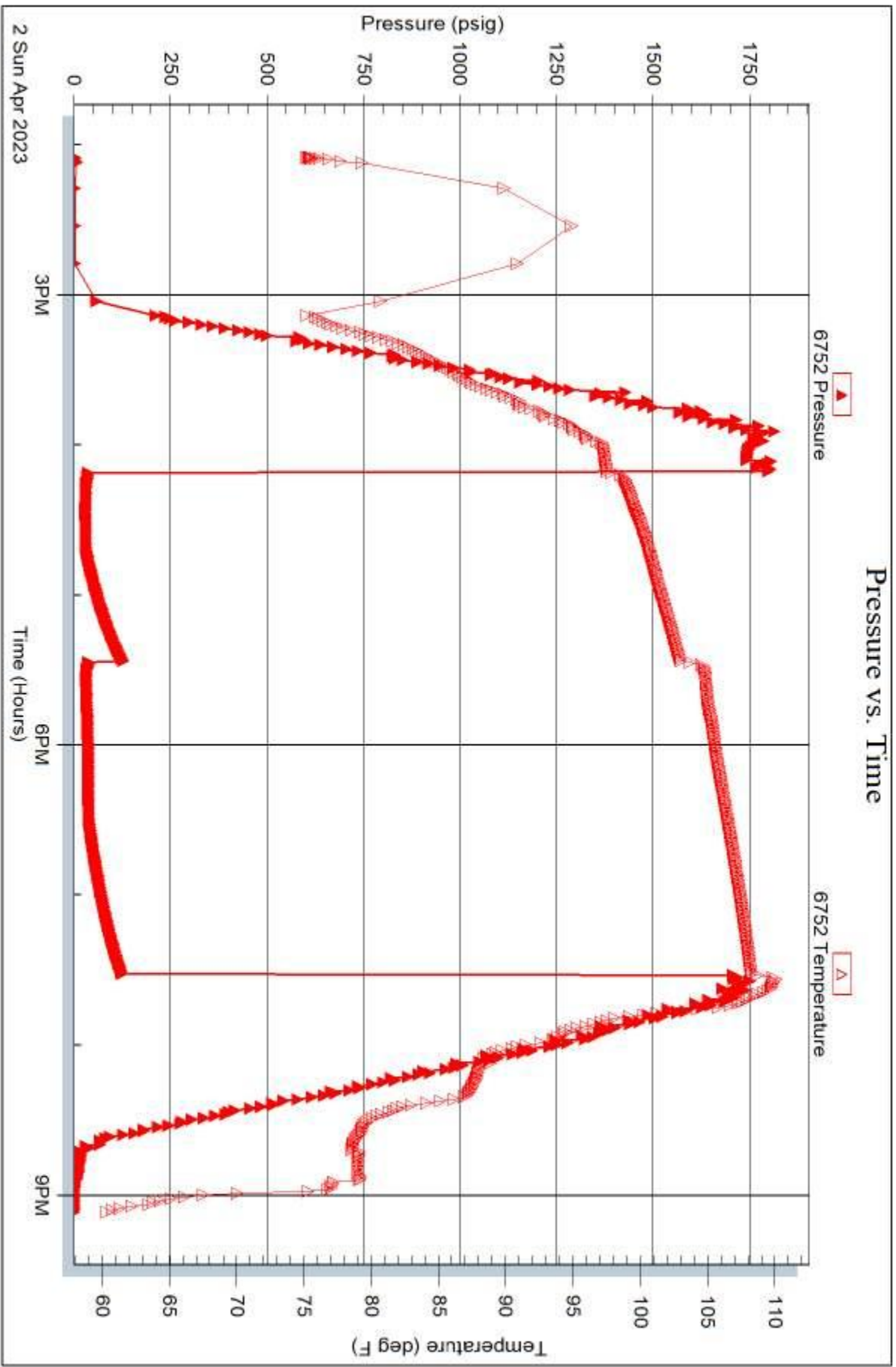
Serial #: 6752

Inside

Rockbound Petroleum, LLC

Bookstore 1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 70652

Printed: 2023.04.03 @ 06:50:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

ATTN: Keaton Jones

Job Ticket: 70653

DST#: 3

Test Start: 2023.04.03 @ 08:05:00

GENERAL INFORMATION:

Formation: **LKC J-K**

Deviated: No Whipstock: 1949.00 ft (KB)

Time Tool Opened: 10:12:32

Time Test Ended: 15:59:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3738.00 ft (KB) To 3810.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

1939.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751

Outside

Press@RunDepth: 188.97 psig @ 3741.00 ft (KB)

Capacity: psig

Start Date: 2023.04.03

End Date: 2023.04.03

Last Calib.: 1899.12.30

Start Time: 08:05:01

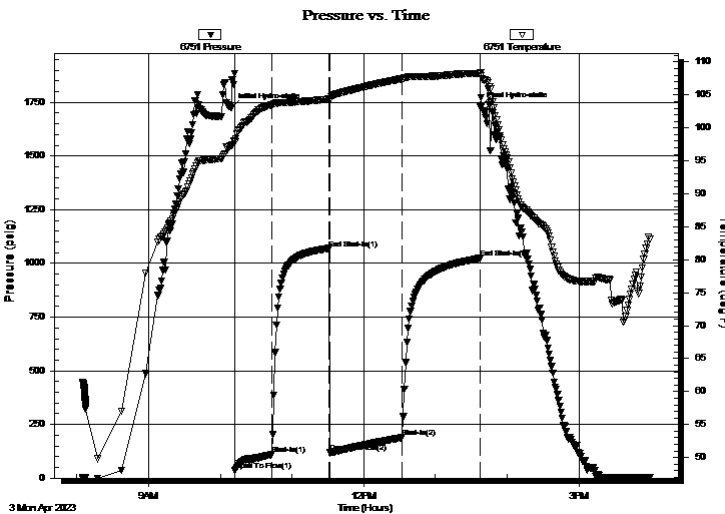
End Time: 15:59:02

Time On Btm: 2023.04.03 @ 10:09:32

Time Off Btm: 2023.04.03 @ 13:37:32

TEST COMMENT: IF: 30 min., BOB 11 min., strong building blow , 26 inches
IS: 45 min., no blow back
FF: 60 min., BOB 25 min., strong building blow , 28 inches
FSI: 60 min., no blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1726.90 | 97.29 | Initial Hydro-static |
| 3 | 35.19 | 97.90 | Open To Flow (1) |
| 34 | 110.38 | 103.50 | Shut-In(1) |
| 82 | 1069.62 | 104.36 | End Shut-In(1) |
| 83 | 118.86 | 104.31 | Open To Flow (2) |
| 143 | 188.97 | 107.47 | Shut-In(2) |
| 208 | 1023.59 | 108.25 | End Shut-In(2) |
| 208 | 1730.47 | 108.42 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 120.00 | muddy w ater 95%W,5%M | 0.59 |
| 126.00 | muddy w ater 60%W,40%M | 1.77 |
| 126.00 | oily w atery mud 10%O, 20%W, 70%M | 1.77 |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

ATTN: Keaton Jones

Job Ticket: 70653

DST#: 3

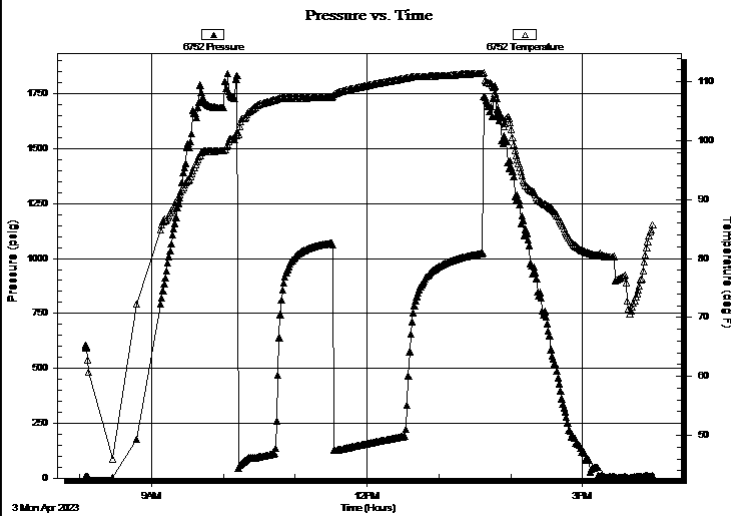
Test Start: 2023.04.03 @ 08:05:00

GENERAL INFORMATION:

Formation: **LKC J-K**
 Deviated: No Whipstock: 1949.00 ft (KB)
 Time Tool Opened: 10:12:32
 Time Test Ended: 15:59:02
 Interval: **3738.00 ft (KB) To 3810.00 ft (KB) (TVD)**
 Total Depth: 3810.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 1949.00 ft (KB)
 1939.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6752 **Inside**
 Press@RunDepth: psig @ 3741.00 ft (KB) Capacity: psig
 Start Date: 2023.04.03 End Date: 2023.04.03 Last Calib.: 1899.12.30
 Start Time: 08:05:01 End Time: 15:59:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 30 min., BOB 11 min., strong building blow , 26 inches
 IS: 45 min., no blow back
 FF: 60 min., BOB 25 min., strong building blow , 28 inches
 FS: 60 min., no blow back



PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 120.00 | muddy w ater 95%W,5%M | 0.59 |
| 126.00 | muddy w ater 60%W,40%M | 1.77 |
| 126.00 | oily w atery mud 10%O, 20%W, 70%M | 1.77 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70653

DST#: 3

ATTN: Keaton Jones

Test Start: 2023.04.03 @ 08:05:00

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:

28000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------------|---------------|
| 120.00 | muddy w ater 95%W,5%M | 0.590 |
| 126.00 | muddy w ater 60%W,40%M | 1.767 |
| 126.00 | oily w atery mud 10%O, 20%W, 70%M | 1.767 |

Total Length: 372.00 ft Total Volume: 4.124 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

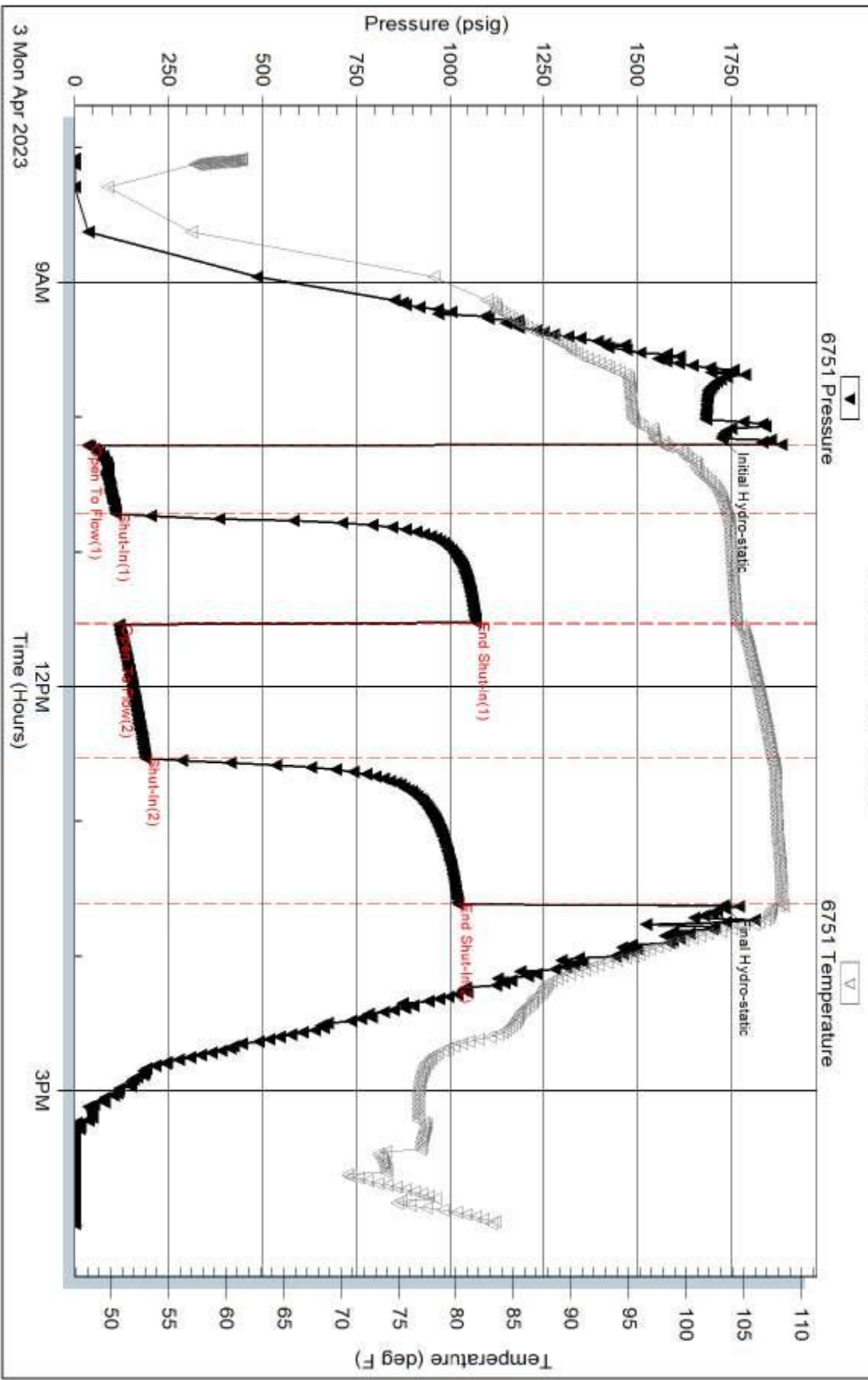
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.284@67=28000ppm

Pressure vs. Time



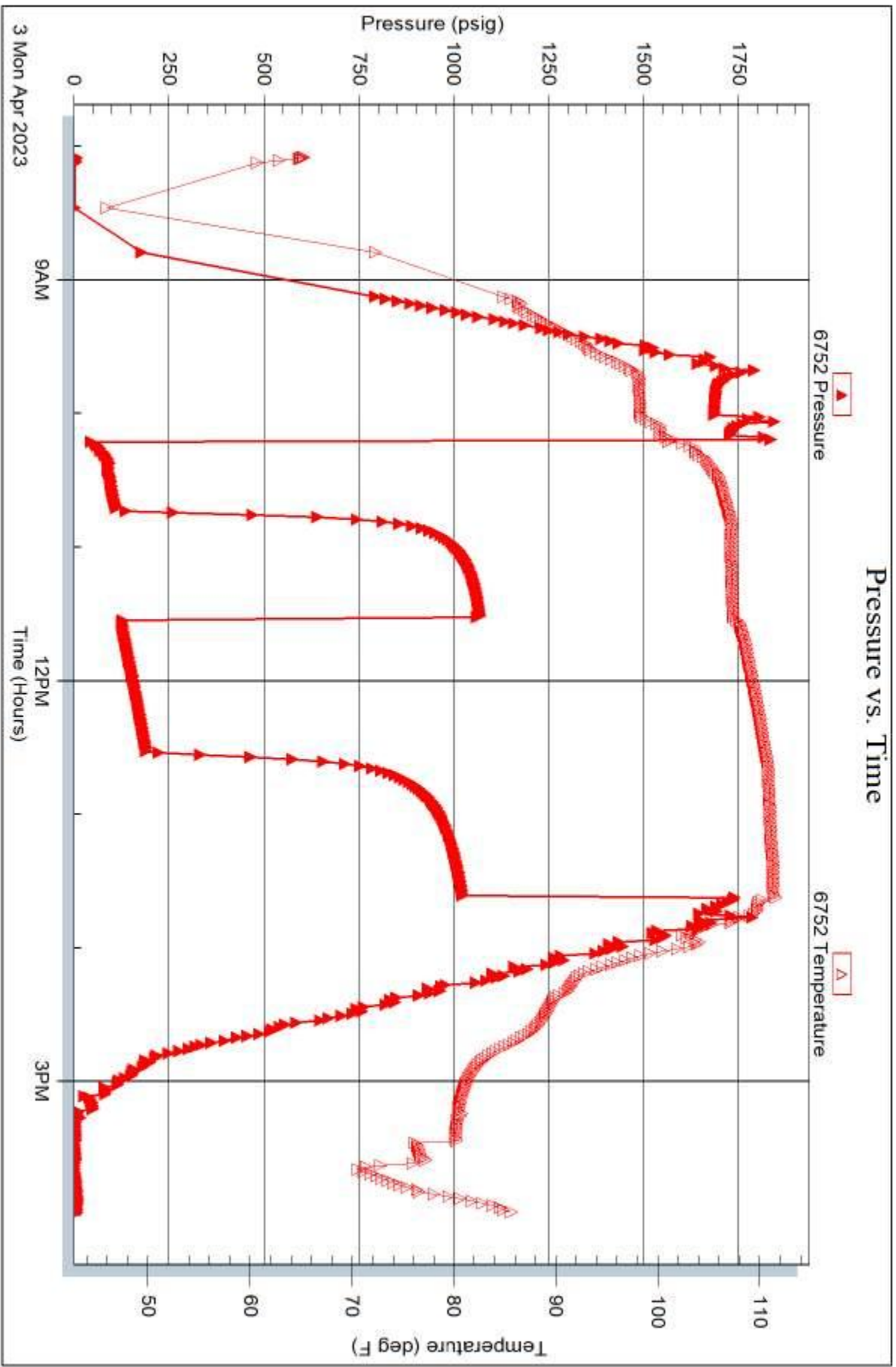
Serial #: 6752

Inside

Rockhound Petroleum, LLC

Bookstore 1

DST Test Number: 3





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70655

DST#: 5

ATTN: Keaton Jones

Test Start: 2023.04.05 @ 01:40:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: 1949.00 ft (KB)

Time Tool Opened: 04:02:17

Time Test Ended: 09:50:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3990.00 ft (KB) To 4023.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 4023.00 ft (KB) (TVD)

1939.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press@RunDepth: 89.86 psig @ 3992.00 ft (KB)

Capacity: psig

Start Date: 2023.04.05

End Date:

2023.04.05

Last Calib.:

1899.12.30

Start Time: 01:40:01

End Time:

09:50:02

Time On Btm:

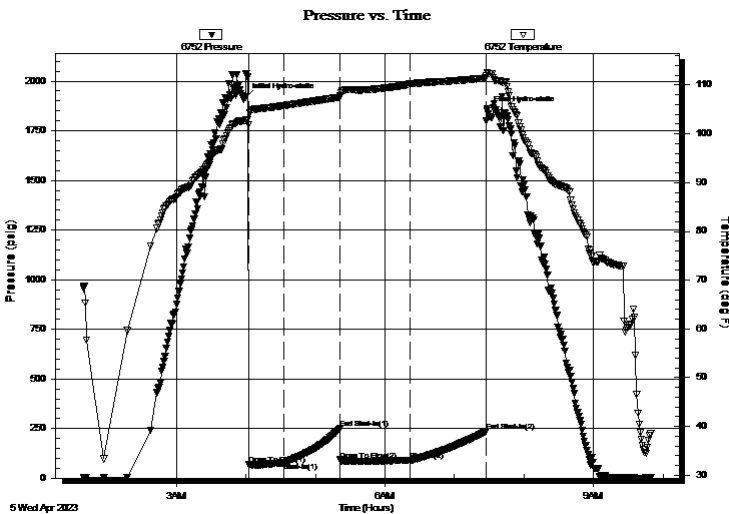
2023.04.05 @ 03:59:32

Time Off Btm:

2023.04.05 @ 07:28:02

TEST COMMENT: IF: 30 min, strong building blow, 10 inches
IS: 45 min., no blow back
FF: 60 min., weak building blow, 1.4 inches
FSI: 60 min., no blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1917.14 | 102.76 | Initial Hydro-static |
| 3 | 67.98 | 101.87 | Open To Flow (1) |
| 34 | 77.85 | 105.80 | Shut-In(1) |
| 82 | 249.56 | 107.56 | End Shut-In(1) |
| 82 | 92.05 | 107.83 | Open To Flow (2) |
| 143 | 89.86 | 110.22 | Shut-In(2) |
| 208 | 235.73 | 111.47 | End Shut-In(2) |
| 209 | 1852.68 | 112.60 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 60.00 | gassy oily mud 25%G,25%O,50%M | 0.30 |
| 90.00 | oily mud 5%O,95%M | 0.72 |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70655

DST#: 5

ATTN: Keaton Jones

Test Start: 2023.04.05 @ 01:40:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: 1949.00 ft (KB)

Time Tool Opened: 04:02:17

Time Test Ended: 09:50:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3990.00 ft (KB) To 4023.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 4023.00 ft (KB) (TVD)

1939.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 3992.00 ft (KB)

Capacity: psig

Start Date: 2023.04.05

End Date:

2023.04.05

Last Calib.:

1899.12.30

Start Time: 01:40:01

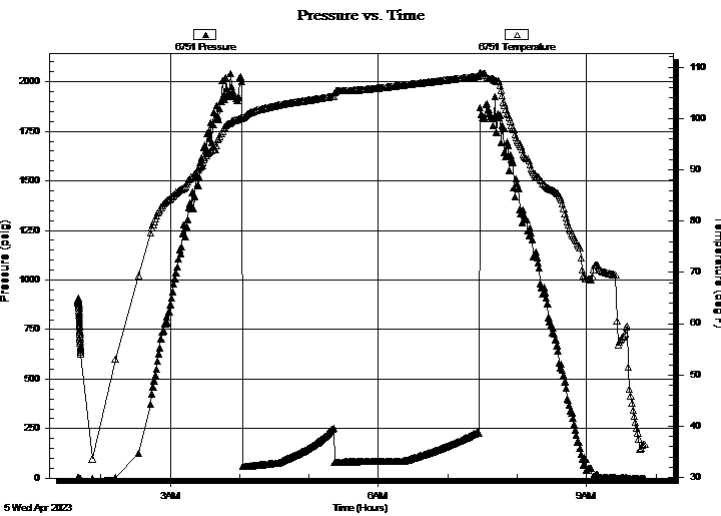
End Time:

09:50:02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 30 min, strong building blow , 10 inches
IS: 45 min., no blow back
FF: 60 min., weak building blow , 1.4 inches
FSI: 60 min., no blow back



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 60.00 | gassy oily mud 25%G,25%O,50%M | 0.30 |
| 90.00 | oily mud 5%O,95%M | 0.72 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70655

DST#: 5

ATTN: Keaton Jones

Test Start: 2023.04.05 @ 01:40:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 60.00 | gassy oily mud 25%G,25%O,50%M | 0.295 |
| 90.00 | oily mud 5%O,95%M | 0.716 |

Total Length: 150.00 ft

Total Volume: 1.011 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

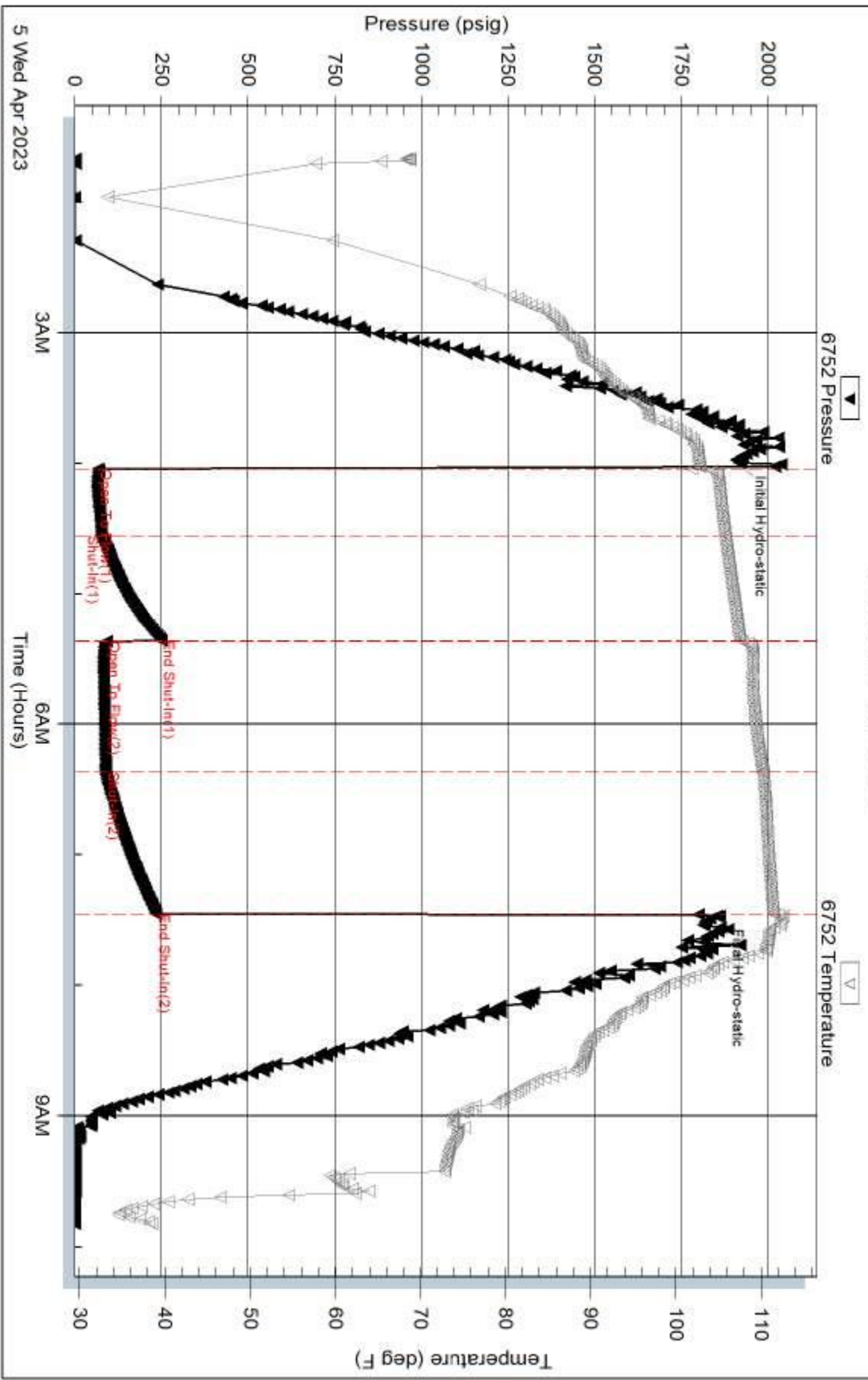
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

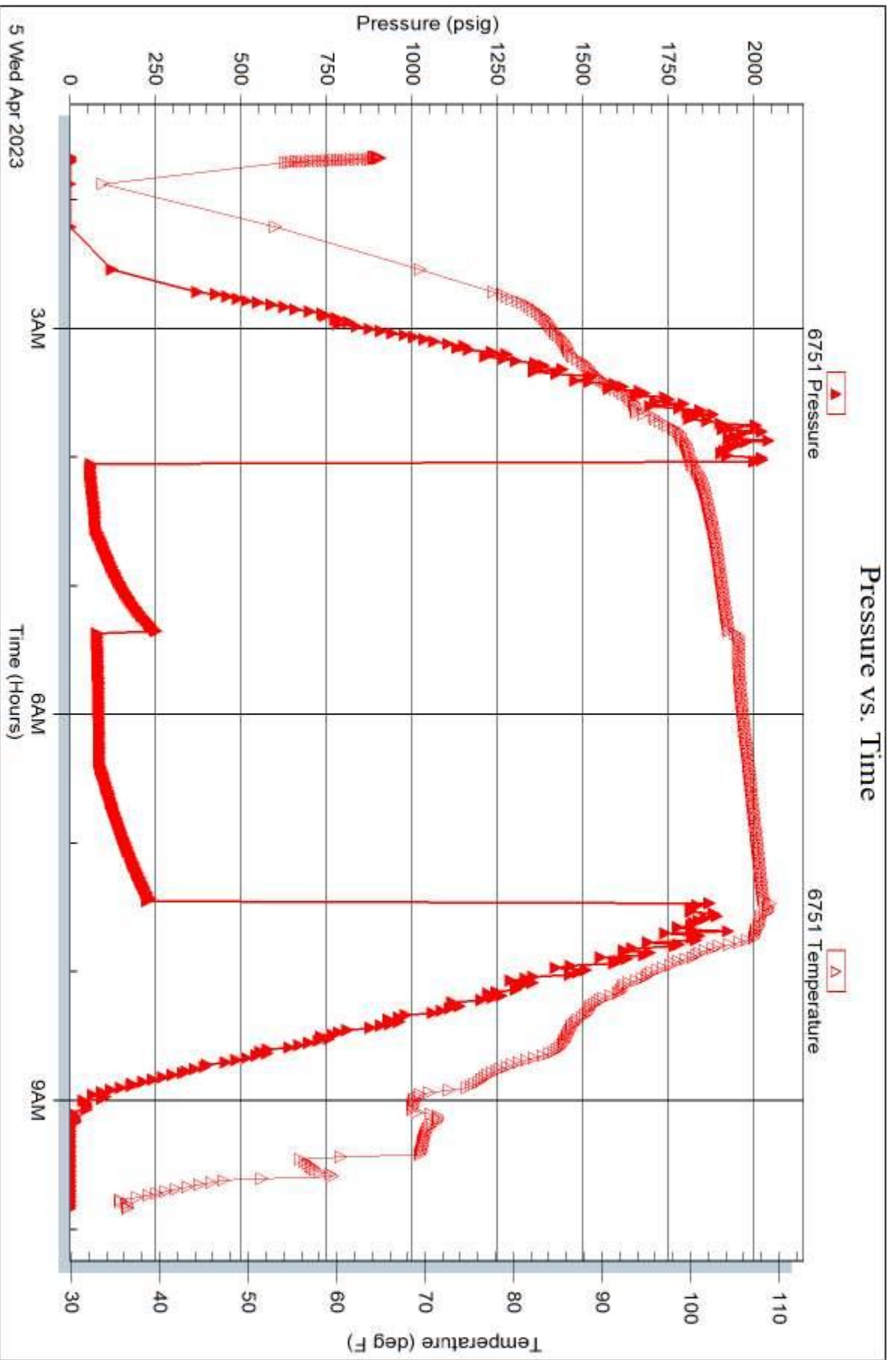


Serial #: 6751

Outside Rockhound Petroleum, LLC

Bookstore 1

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70656

DST#: 6

ATTN: Keaton Jones

Test Start: 2023.04.06 @ 07:50:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: 1949.00 ft (KB)

Time Tool Opened: 10:34:17

Time Test Ended: 16:04:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3784.00 ft (KB) To 3810.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

1939.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751

Inside

Press@RunDepth: 134.68 psig @ 3786.00 ft (KB)

Capacity: psig

Start Date: 2023.04.06

End Date:

2023.04.06

Last Calib.:

1899.12.30

Start Time:

07:50:01

End Time:

16:04:02

Time On Btm:

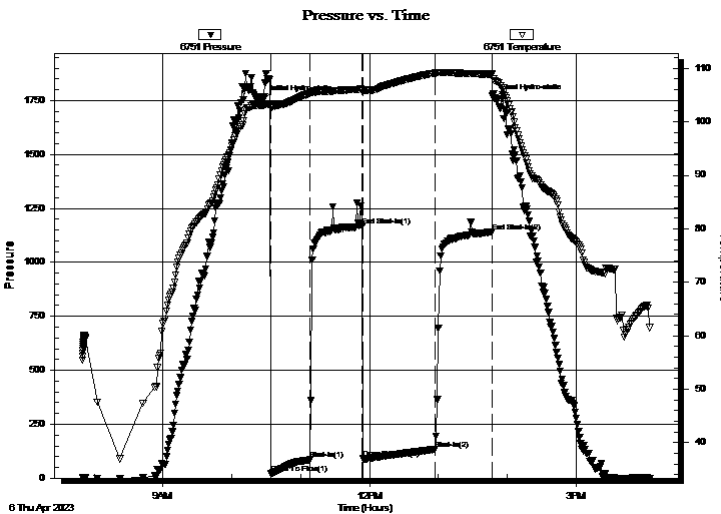
2023.04.06 @ 10:27:47

Time Off Btm:

2023.04.06 @ 13:48:47

TEST COMMENT: IF: 30 min., fair building blow , 3.4 inches
IS: 45 min., no blow back
FF: 60 min., strong building blow , 10 inches
FS: 45 min., no blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1755.01 | 103.09 | Initial Hydro-static |
| 7 | 20.70 | 102.80 | Open To Flow (1) |
| 41 | 85.25 | 105.33 | Shut-In(1) |
| 86 | 1169.57 | 106.07 | End Shut-In(1) |
| 87 | 89.51 | 105.84 | Open To Flow (2) |
| 150 | 134.68 | 109.09 | Shut-In(2) |
| 199 | 1139.75 | 108.85 | End Shut-In(2) |
| 201 | 1760.32 | 107.68 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 120.00 | MW 80%w 20%M | 0.59 |
| 125.00 | Wm 45W 55%M | 1.75 |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

ATTN: Keaton Jones

Job Ticket: 70656

DST#: 6

Test Start: 2023.04.06 @ 07:50:00

GENERAL INFORMATION:

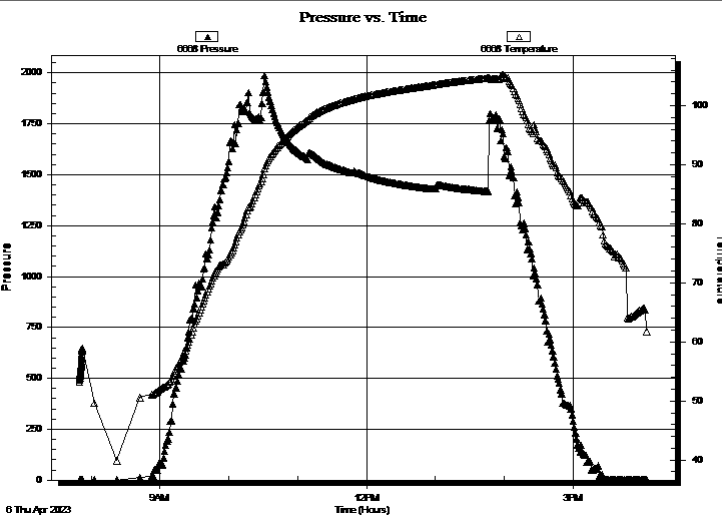
Formation: **LKC K**
 Deviated: No Whipstock: 1949.00 ft (KB)
 Time Tool Opened: 10:34:17
 Time Test Ended: 16:04:02
Interval: 3784.00 ft (KB) To 3810.00 ft (KB) (TVD)
 Total Depth: 3810.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 1949.00 ft (KB)
 1939.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6668 Below (Straddle)

Press@RunDepth: psig @ 3812.00 ft (KB) Capacity: psig
 Start Date: 2023.04.06 End Date: 2023.04.06 Last Calib.: 1899.12.30
 Start Time: 07:50:01 End Time: 16:04:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 30 min., fair building blow , 3.4 inches
 IS: 45 min., no blow back
 FF: 60 min., strong building blow , 10 inches
 FS: 45 min., no blow back



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 120.00 | MW 80%w 20%M | 0.59 |
| 125.00 | Wm 45W 55%M | 1.75 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

ATTN: Keaton Jones

Job Ticket: 70656

DST#: 6

Test Start: 2023.04.06 @ 07:50:00

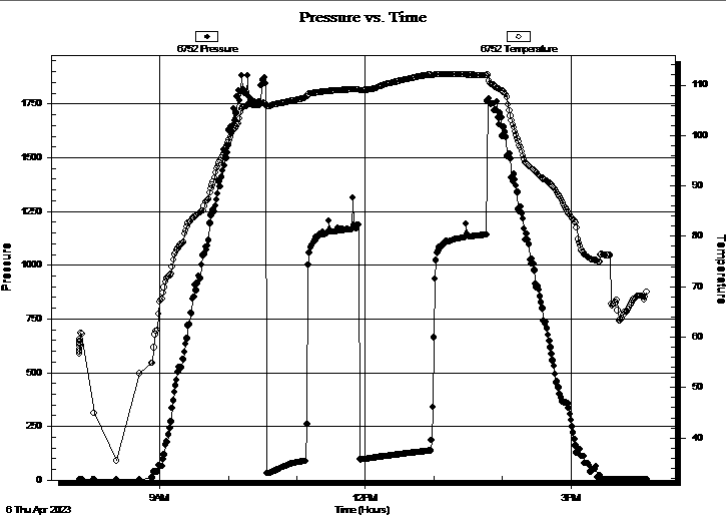
GENERAL INFORMATION:

| | | | |
|---|----------------------|---|--|
| Formation: LKC K | | | |
| Deviated: No Whipstock: 1949.00 ft (KB) | | Test Type: Conventional Bottom Hole (Initial) | |
| Time Tool Opened: 10:34:17 | | Tester: Chris Hagman | |
| Time Test Ended: 16:04:02 | | Unit No: 69 | |
| Interval: 3784.00 ft (KB) To 3810.00 ft (KB) (TVD) | | Reference Elevations: 1949.00 ft (KB) | |
| Total Depth: 3810.00 ft (KB) (TVD) | | 1939.00 ft (CF) | |
| Hole Diameter: 7.80 inches | Hole Condition: Good | KB to GR/CF: 10.00 ft | |

Serial #: 6752

| | |
|--------------------------------|----------------------|
| Press@RunDepth: psig @ ft (KB) | Capacity: psig |
| Start Date: 2023.04.06 | End Date: 2023.04.06 |
| Start Time: 07:50:01 | End Time: 16:06:02 |
| Last Calib.: 1899.12.30 | Time On Btm: |
| | Time Off Btm: |

TEST COMMENT: IF: 30 min., fair building blow , 3.4 inches
 IS: 45 min., no blow back
 FF: 60 min., strong building blow , 10 inches
 FS: 45 min., no blow back



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 120.00 | MW 80%w 20%M | 0.59 |
| 125.00 | Wm 45W 55%M | 1.75 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rockhound Petroleum, LLC

36/23/14

255 NE 30 th St
St. John 67576

Bookstore 1

Job Ticket: 70656

DST#: 6

ATTN: Keaton Jones

Test Start: 2023.04.06 @ 07:50:00

Mud and Cushion Information

| | | | | | |
|--------------|-----------------|-----------------------|------|-----------------|---------|
| Mud Type: | | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | ppm | | | | |
| Filter Cake: | inches | | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 120.00 | MW 80%w 20%M | 0.590 |
| 125.00 | Wm 45W 55%M | 1.753 |

Total Length: 245.00 ft Total Volume: 2.343 bbl

Num Fluid Samples: 0

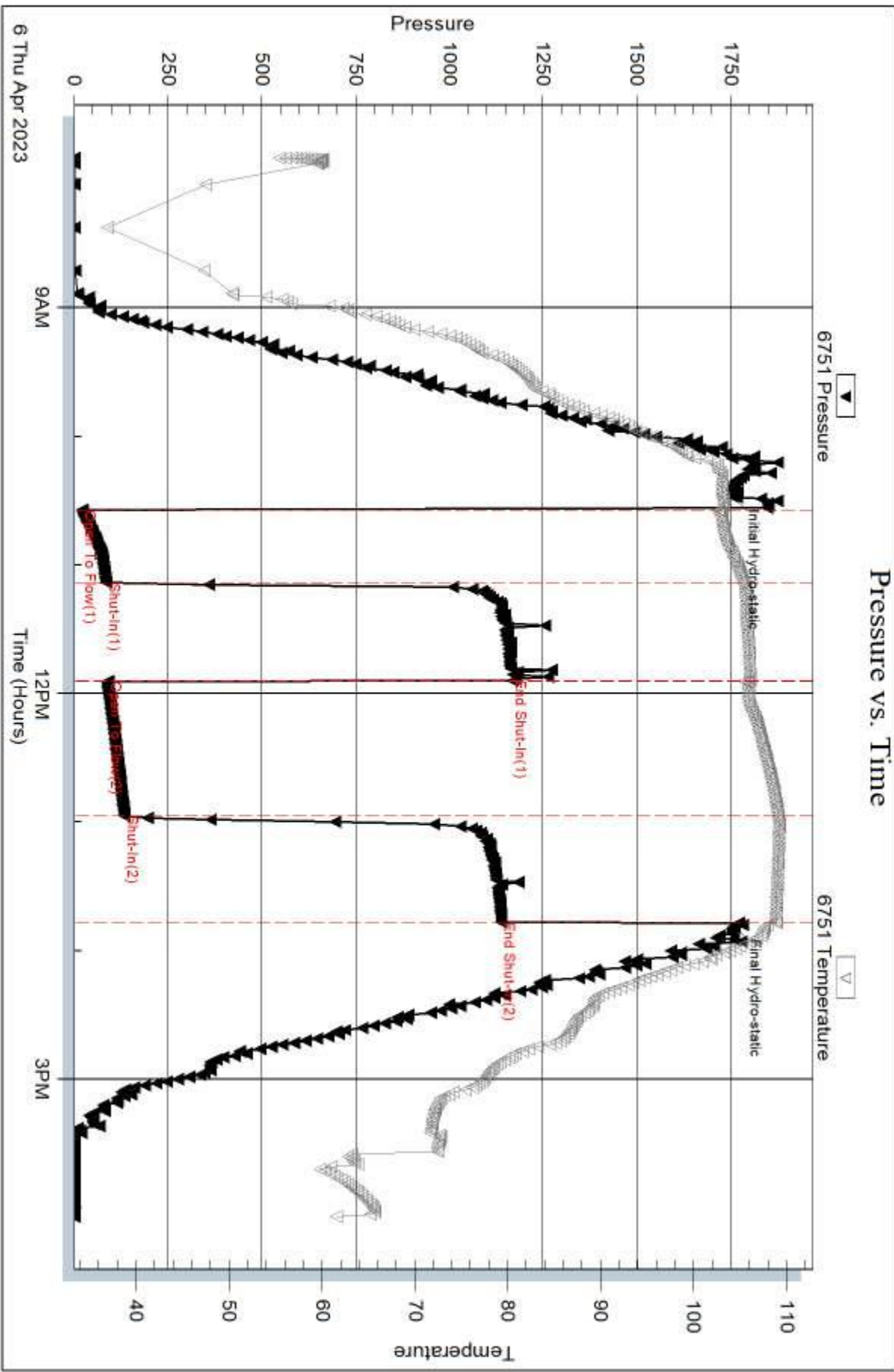
Num Gas Bombs: 0

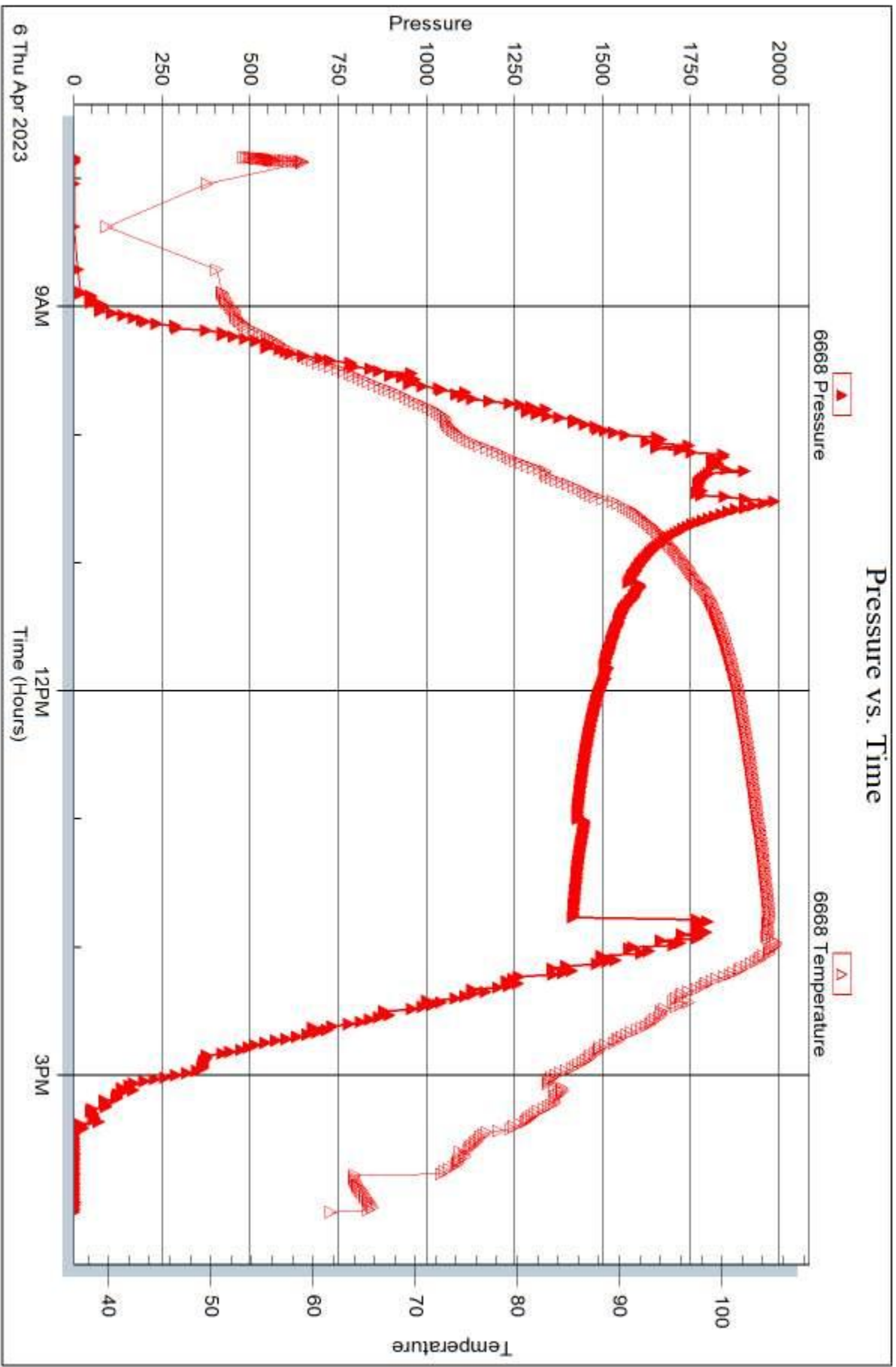
Serial #:

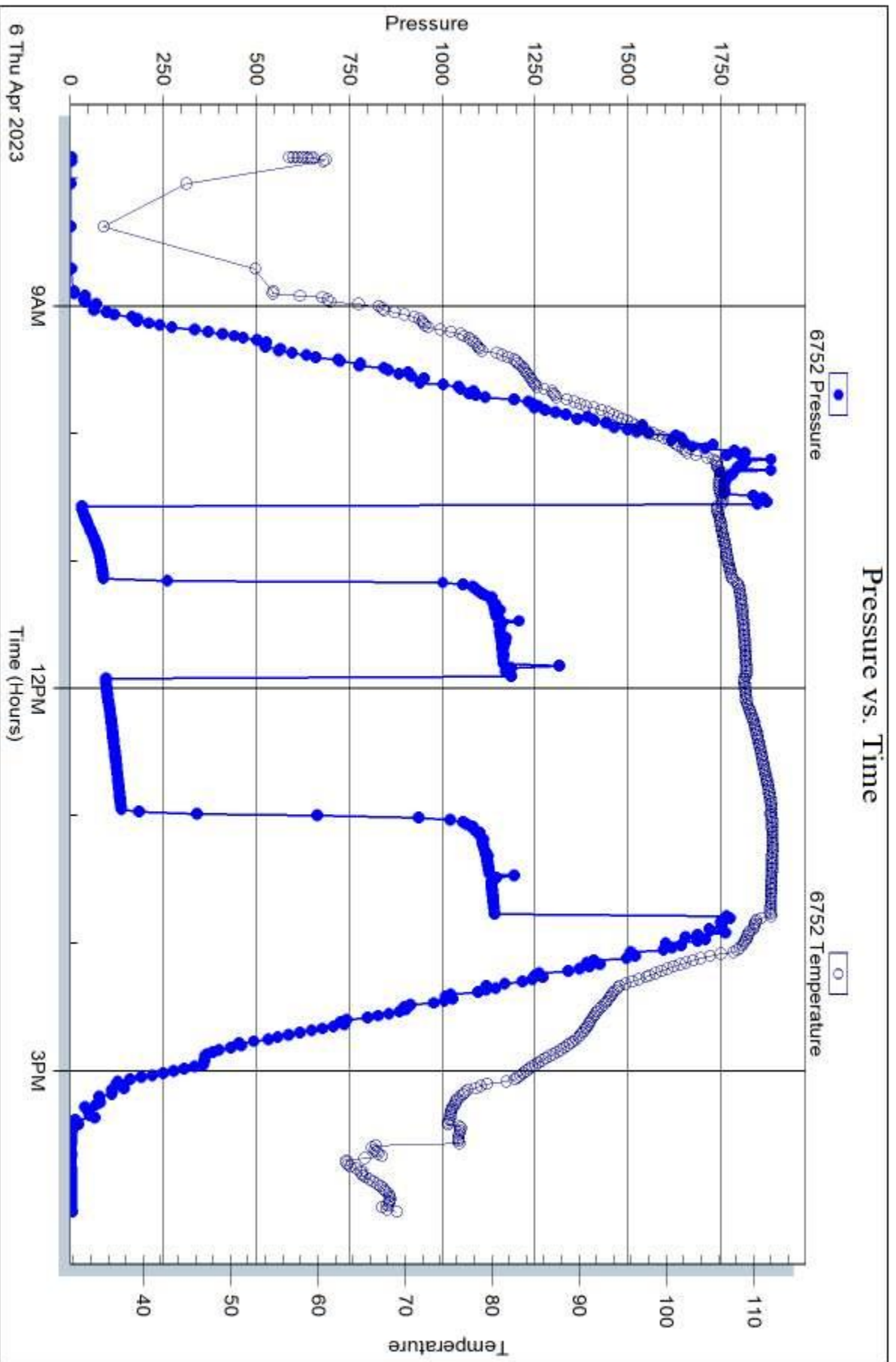
Laboratory Name:

Laboratory Location:

Recovery Comments:









CEMENT TREATMENT REPORT

| | | |
|--|----------------------------|-----------------------|
| Customer: ROCKHOUND PETROLEUM LLC | Well: BOOKSTORE 1 | Ticket: WP4135 |
| City, State: ST JOHN KS | County: STAFFORD KS | Date: 4/6/2023 |
| Field Rep: SCOTT PILAND | S-T-R: 36-23S-14W | Service: PTA |

| Downhole Information | | Calculated Slurry - Lead | | Calculated Slurry - Tail | |
|----------------------|----------|--------------------------|---------------------------|--------------------------|----------------------|
| Hole Size: | 7 7/8 in | Blend: | H-PLUG A | Blend: | |
| Hole Depth: | ft | Weight: | 13.8 ppg | Weight: | ppg |
| Casing Size: | in | Water / Sx: | 6.9 gal / sx | Water / Sx: | gal / sx |
| Casing Depth: | ft | Yield: | 1.43 ft ³ / sx | Yield: | ft ³ / sx |
| Tubing / Liner: | in | Annular Bbbs / Ft.: | bbs / ft. | Annular Bbbs / Ft.: | bbs / ft. |
| Depth: | ft | Depth: | ft | Depth: | ft |
| Tool / Packer: | | Annular Volume: | 0.0 bbbs | Annular Volume: | 0 bbbs |
| Tool Depth: | ft | Excess: | | Excess: | |
| Displacement: | bbbs | Total Slurry: | 50.9 bbbs | Total Slurry: | 0.0 bbbs |
| | | Total Sacks: | 200 sx | Total Sacks: | #DIV/0! sx |

| TIME | RATE | PSI | STAGE BBLs | TOTAL BBLs | REMARKS |
|----------|------|-------|------------|------------|----------------------------------|
| 7:25 PM | | | - | - | ON LOCATION, 1ST PLUG AT4118' |
| 8:00 PM | 5.5 | 310.0 | 15.0 | 15.0 | PUMP 15 BBL WATER |
| 8:02 PM | 6.5 | 380.0 | 12.7 | 27.7 | MIX 50 SKS H-PLUG A |
| 8:05 PM | 5.0 | 250.0 | 5.0 | 32.7 | PUMP 5 BBL WATER |
| 8:07 AM | 8.0 | 400.0 | 44.0 | 76.7 | PUMP 44 BBL MUD |
| | | | | 76.7 | 2ND PLUG AT900' |
| 9:52 PM | 3.9 | 90.0 | 10.0 | 86.7 | PUMP 10 BBL WATER |
| 9:56 PM | 4.2 | 90.0 | 12.7 | 99.4 | MIX 50 SKS H-PLUG A |
| 9:58 PM | 5.3 | 200.0 | 6.0 | 105.4 | PUMP 6 BBL WATER |
| | | | | 105.4 | 3RD PLUG AT 390 |
| 10:19 PM | 3.7 | 60.0 | 5.0 | 110.4 | PUMP 5 BBL WATER |
| 10:20 PM | 4.0 | 100.0 | 12.7 | 123.1 | MIX 50 SKS H-PLUG A |
| 10:24 PM | 4.0 | 60.0 | 0.8 | 123.9 | PUMP .75 WATER |
| | | | | 123.9 | 4TH PLUG AT 60' |
| 11:19 PM | 2.0 | 25.0 | 5.0 | 128.9 | MIX 20 SKS H-PUG A |
| | | | | 128.9 | CEMENT TO SURFACE |
| 11:24 PM | 2.0 | 25.0 | 7.0 | 135.9 | MIX 30 SKS H-PLUG A FOR RAT HOLE |
| | | | | - | |
| | | | | - | |
| | | | | - | JOB COMPLETE, THANK YOU! |
| | | | | - | MIKE MATTAL |
| | | | | - | AUSTIN & JOSE |
| | | | | - | |
| | | | | - | |
| | | | | - | |

| CREW | | UNIT | SUMMARY | | |
|----------------|---------|---------|--------------|------------------|-------------|
| Cementer: | MATTAL | 912 | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | CLIFTON | 179/521 | 4.4 bpm | 166 psi | 136 bbbs |
| Bulk #1: | TREVINO | 181/534 | | | |
| Bulk #2: | | | | | |