



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

21 11s 32w Logan Ks
Porter B #21-1
Job Ticket: 61304 **DST#: 3**
Test Start: 2017.01.13 @ 13:59:00

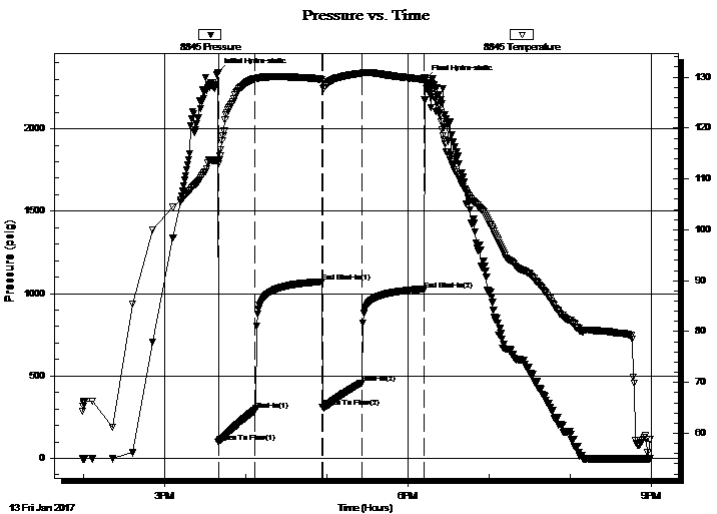
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:39:30
Time Test Ended: 20:58:45
Interval: **4596.00 ft (KB) To 4634.00 ft (KB) (TVD)**
Total Depth: 4634.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 3065.00 ft (KB)
3060.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
Press@RunDepth: 457.95 psig @ 4597.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.01.13 End Date: 2017.01.13 Last Calib.: 2017.01.13
Start Time: 13:59:05 End Time: 20:58:44 Time On Btm: 2017.01.13 @ 15:39:15
Time Off Btm: 2017.01.13 @ 18:12:30

TEST COMMENT: IF: BOB @ 2 min.
IS: BOB @ 28 min.
FF: BOB @ open.
FS: BOB @ 35 min.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2341.65 | 113.76 | Initial Hydro-static |
| 1 | 95.76 | 112.97 | Open To Flow (1) |
| 28 | 291.91 | 129.76 | Shut-In(1) |
| 77 | 1072.23 | 129.56 | End Shut-In(1) |
| 78 | 308.54 | 129.18 | Open To Flow (2) |
| 107 | 457.95 | 130.76 | Shut-In(2) |
| 153 | 1019.98 | 129.55 | End Shut-In(2) |
| 154 | 2300.11 | 129.74 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 200.00 | gocm 20g 10o 70m | 1.68 |
| 1040.00 | go 25g 75o | 14.59 |
| 0.00 | 1325' GIP | 0.00 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

Russell oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

21 11s 32w Logan Ks
Porter B #21-1
Job Ticket: 61304 **DST#: 3**
Test Start: 2017.01.13 @ 13:59:00

Mud and Cushion Information

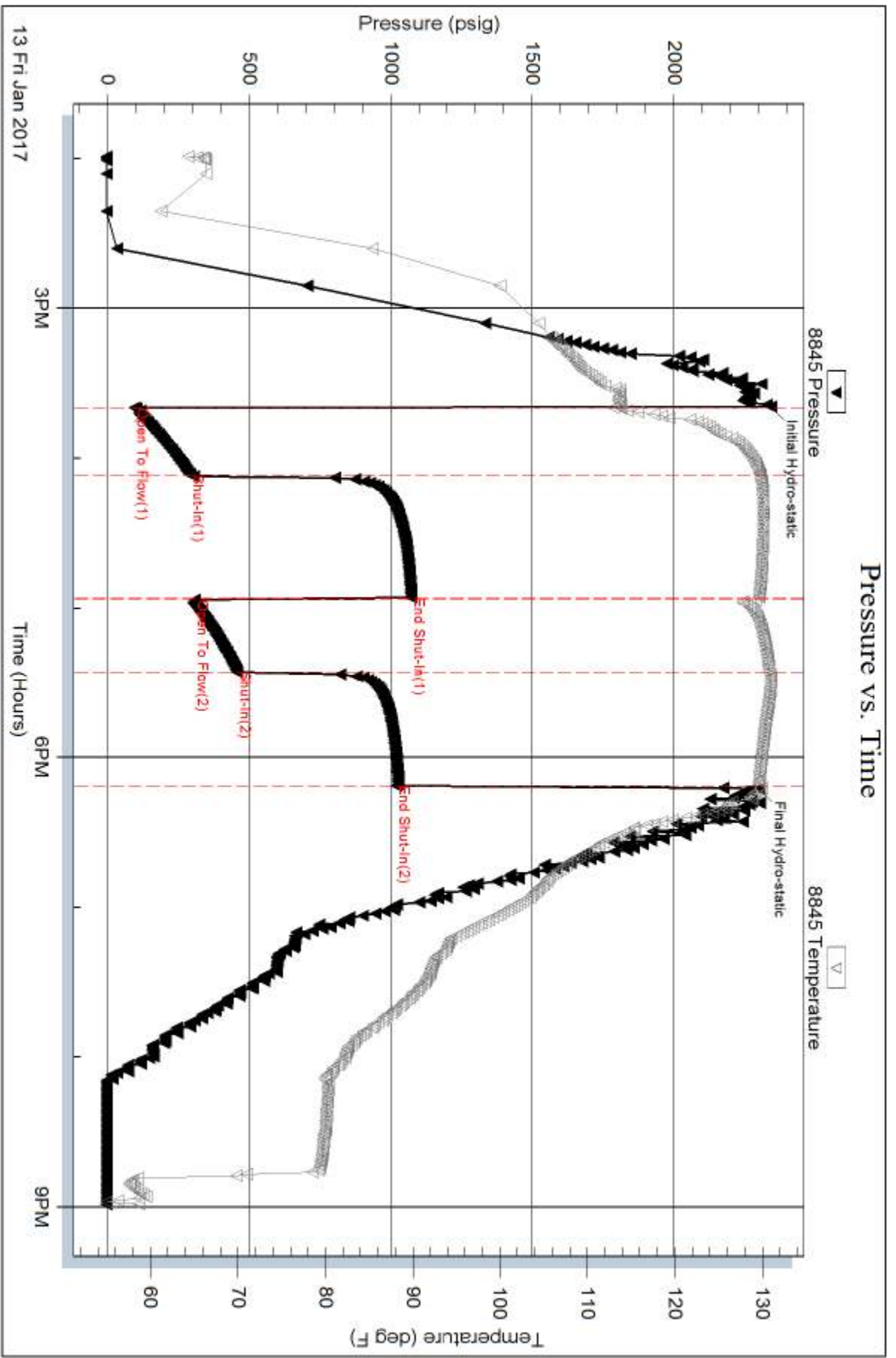
| | | |
|----------------------------------|----------------------------|-----------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 26 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 0 ppm |
| Viscosity: 54.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 7.99 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 3400.00 ppm | | |
| Filter Cake: 1.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 200.00 | gocm 20g 10o 70m | 1.676 |
| 1040.00 | go 25g 75o | 14.588 |
| 0.00 | 1325' GIP | 0.000 |

Total Length: 1240.00 ft Total Volume: 16.264 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



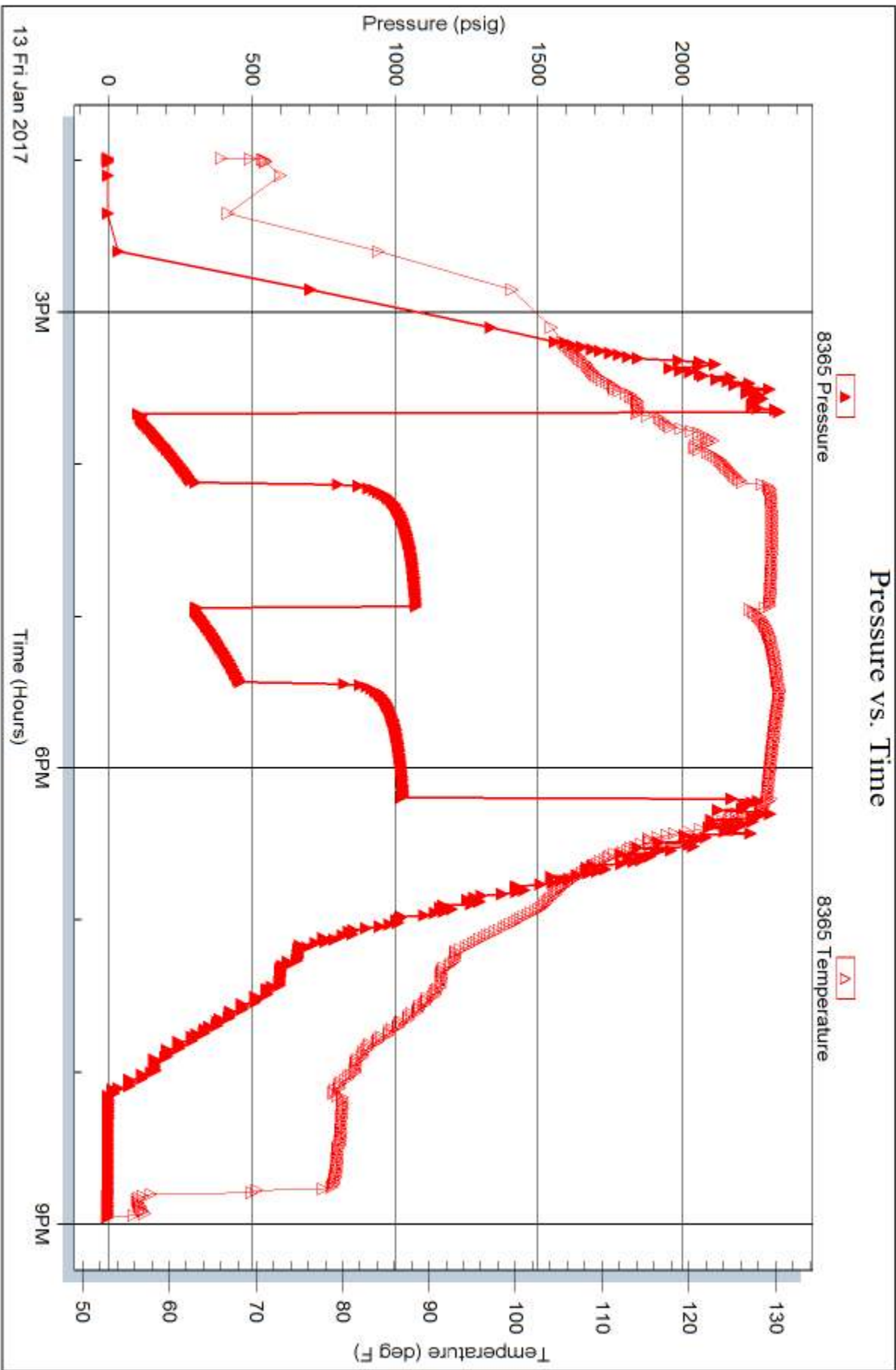
Serial #: 8365

Inside

Russell oil, Inc

Porter B#21-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61304

Printed: 2017.01.13 @ 22:43:17