



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil, Inc

21 11s 32w Logan, Ks

PO Box 8050
Edmond, OK

Rumback B 21-1

Job Ticket: 59551

DST#: 1

ATTN: Kitt Noah

Test Start: 2014.12.10 @ 14:03:00

GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:11:45

Time Test Ended: 22:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 4198.00 ft (KB) To 4230.00 ft (KB) (TVD)

Reference Elevations: 3057.00 ft (KB)

Total Depth: 4230.00 ft (KB) (TVD)

3046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8365

Inside

Press@RunDepth: 280.82 psig @ 4199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.10

End Date:

2014.12.10

Last Calib.: 2014.12.10

Start Time: 14:03:05

End Time:

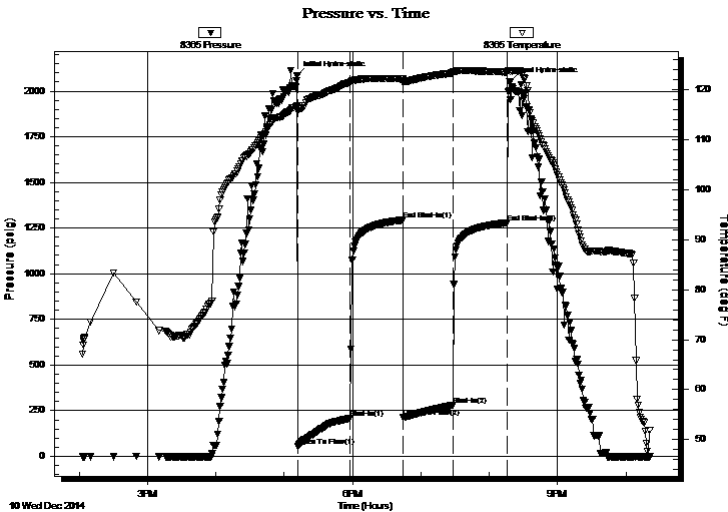
22:21:14

Time On Btm: 2014.12.10 @ 17:11:30

Time Off Btm: 2014.12.10 @ 20:18:00

TEST COMMENT: IF: 7" blow.
IS: No return.
FF: 7" blow.
FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2083.89 | 116.75 | Initial Hydro-static |
| 1 | 54.47 | 115.78 | Open To Flow (1) |
| 47 | 208.33 | 121.51 | Shut-In(1) |
| 93 | 1293.98 | 122.20 | End Shut-In(1) |
| 93 | 212.87 | 121.54 | Open To Flow (2) |
| 137 | 280.82 | 123.40 | Shut-In(2) |
| 185 | 1279.22 | 123.58 | End Shut-In(2) |
| 187 | 2049.94 | 123.92 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 699.00 | mcw 15m 85w (oil spots throughout) | 6.47 |
| 1.00 | oil 100o | 0.01 |
| | | |
| | | |
| | | |

Gas Rates

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



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FLUID SUMMARY

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PO Box 8050
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Rumback B 21-1

Job Ticket: 59551

DST#: 1

ATTN: Kitt Noah

Test Start: 2014.12.10 @ 14:03:00

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: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|------------------------------------|---------------|
| 699.00 | mcw 15m 85w (oil spots throughout) | 6.471 |
| 1.00 | oil 100o | 0.014 |

Total Length: 700.00 ft Total Volume: 6.485 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .190 @ 49F = 57000ppm

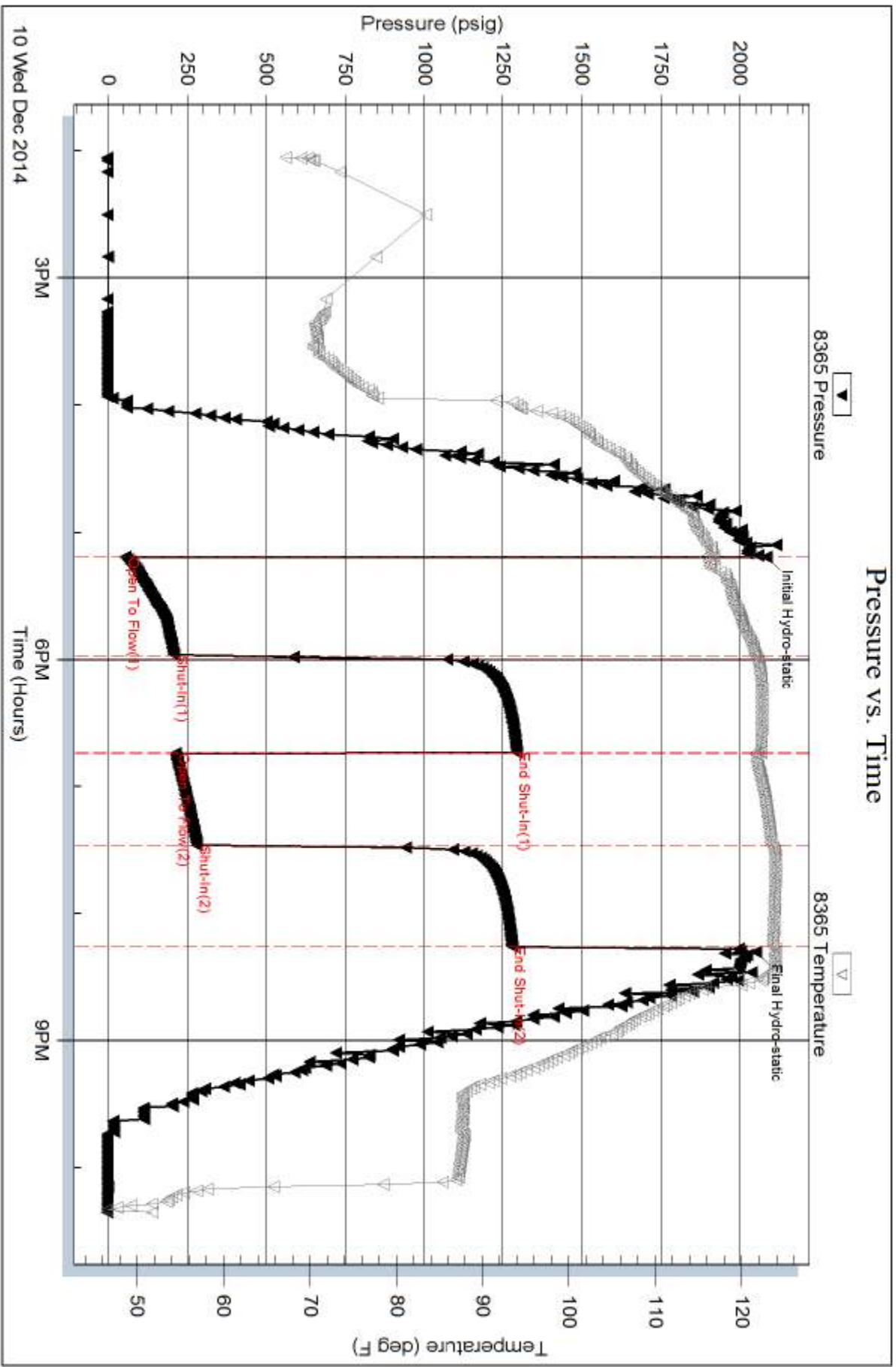
Serial #: 8365

Inside

Russell Oil, Inc

Runback B 21-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59551

Printed: 2014, 12, 11 @ 08:10:42