



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Inc.
 PO Box 8050
 Edmond, OK 73083
 ATTN: Kitt Noah

16/11s/32w Logan KS
Rumback 'A' #16-1
 Job Ticket: 65566 **DST#: 5**
 Test Start: 2016.09.22 @ 04:28:00

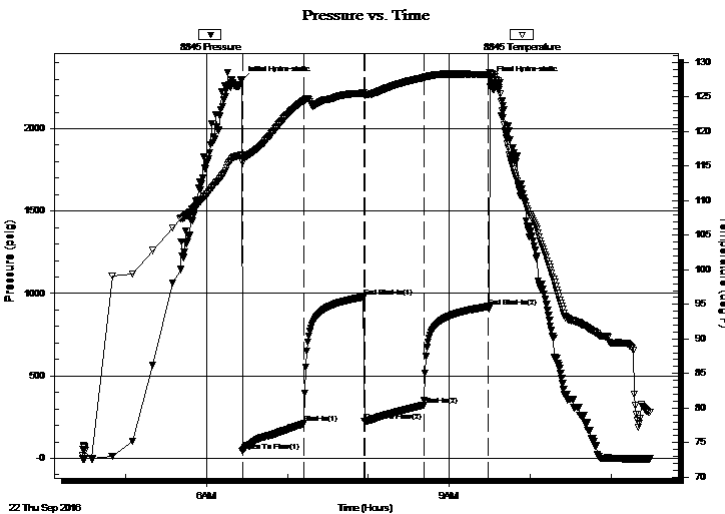
GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:26:30
 Time Test Ended: 11:28:45
 Interval: **4560.00 ft (KB) To 4604.00 ft (KB) (TVD)**
 Total Depth: 4604.00 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: 3025.00 ft (KB)
 3020.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 322.58 psig @ 4561.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.22 End Date: 2016.09.22 Last Calib.: 2016.09.22
 Start Time: 04:28:05 End Time: 11:28:44 Time On Btm: 2016.09.22 @ 06:26:00
 Time Off Btm: 2016.09.22 @ 09:30:15

TEST COMMENT: IF: BOB @ 5 1/2 minutes.
 IS: 3" return.
 FF: bob @ 8 minutes
 FS: 4" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.58	116.63	Initial Hydro-static
1	43.06	115.57	Open To Flow (1)
46	211.06	124.50	Shut-In(1)
91	978.42	125.57	End Shut-In(1)
92	222.59	125.37	Open To Flow (2)
135	322.58	127.79	Shut-In(2)
183	920.75	128.21	End Shut-In(2)
185	2295.48	128.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	somcw 1o 5m 94w	1.45
70.00	gomcw 10g 10o 40m 40w	0.98
130.00	gow cm 15g 30o 30w 25m	1.82
150.00	gmco 30g 20m 50o	2.10
180.00	go 25g 75o	2.52
0.00	860'GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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PO Box 8050
Edmond, OK 73083

Rumback 'A' #16-1

Job Ticket: 65566

DST#: 5

ATTN: Kitt Noah

Test Start: 2016.09.22 @ 04:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	somcw 1o 5m 94w	1.450
70.00	gomcw 10g 10o 40m 40w	0.982
130.00	gow cm 15g 30o 30w 25m	1.824
150.00	gmco 30g 20m 50o	2.104
180.00	go 25g 75o	2.525
0.00	860'GIP	0.000

Total Length: 710.00 ft Total Volume: 8.885 bbl

Num Fluid Samples: 0

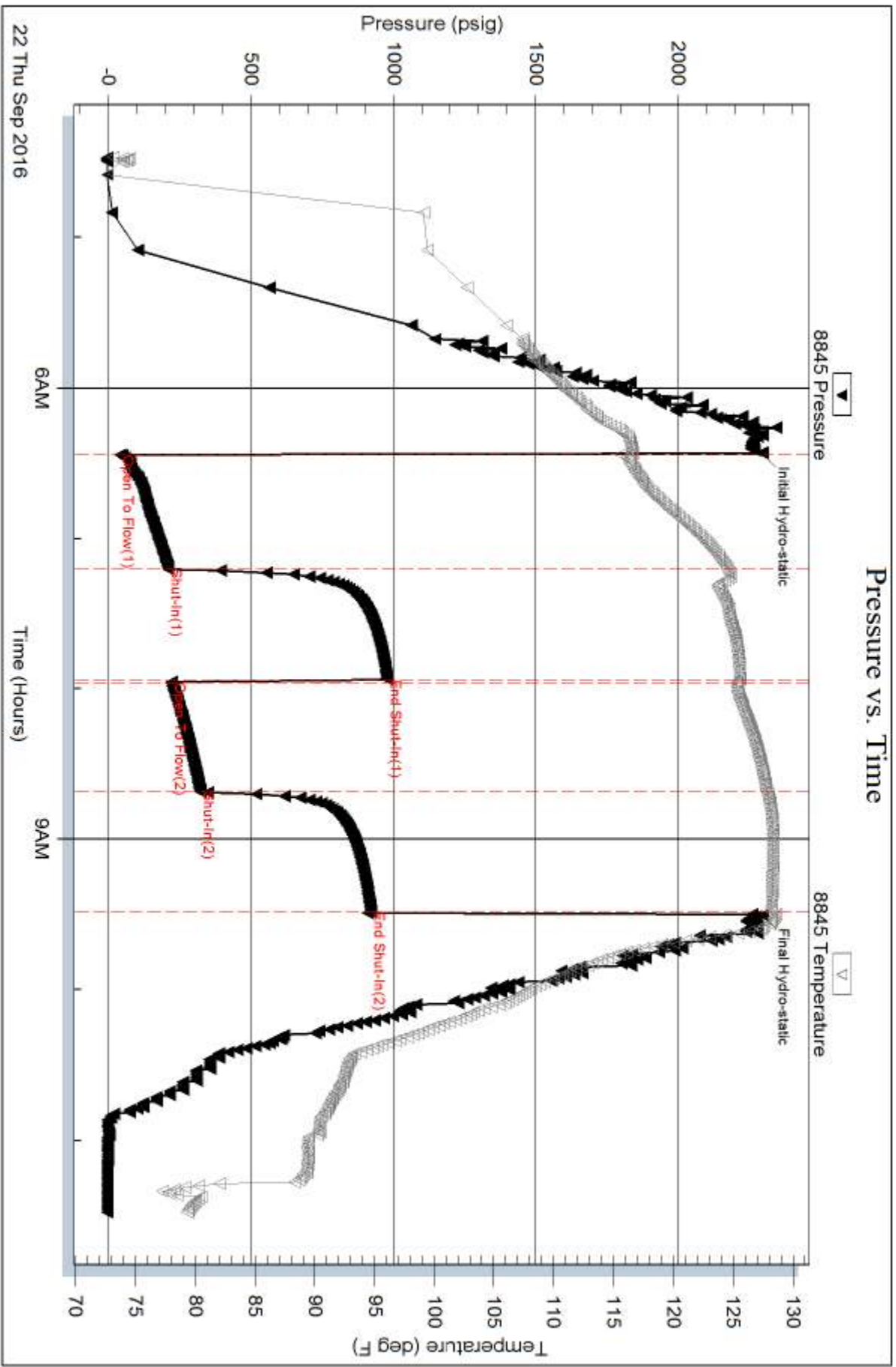
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .195 @ 76f = 34000ppm



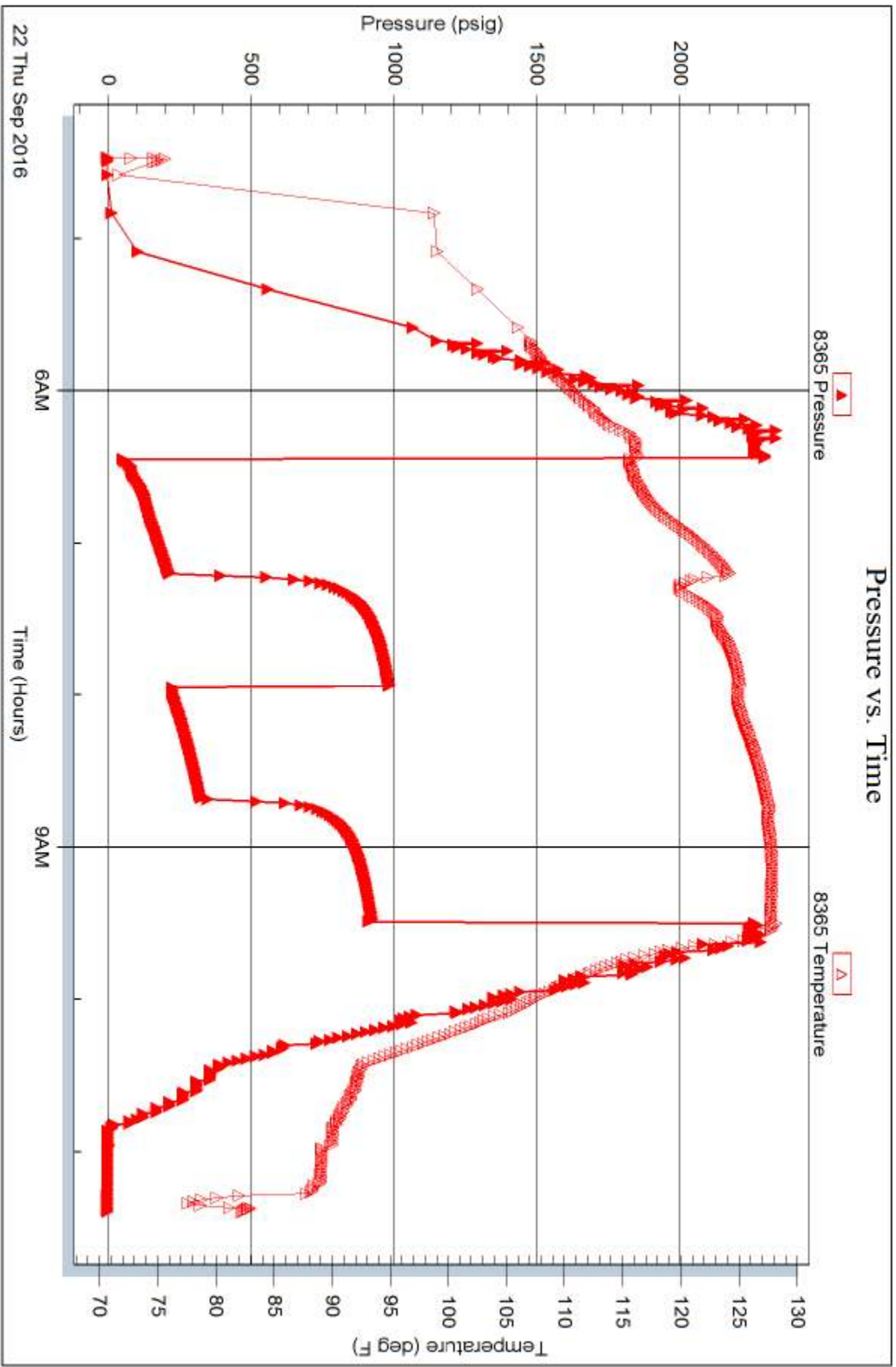
Serial #: 8365

Inside

Russell Oil Inc.

Runback 'A' #16-1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65566

Printed: 2016.09.22 @ 13:06:10