



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil, Inc
Po Box 8050
Edmond, Ok 73083
ATTN: Kitt Noah

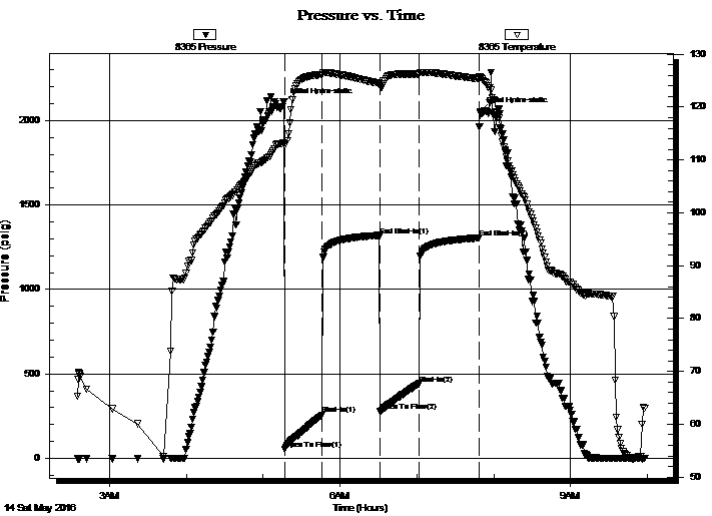
16 11s 32w Logan, Ks
HR Unit #1
Job Ticket: 64644 **DST#: 1**
Test Start: 2016.05.14 @ 02:35:00

GENERAL INFORMATION:

Formation: **LKC - H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:16:45
Time Test Ended: 09:58:30
Interval: **4174.00 ft (KB) To 4205.00 ft (KB) (TVD)**
Total Depth: 4205.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 69
Reference Elevations: 3025.00 ft (KB)
3020.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**
Press@RunDepth: 441.76 psig @ 4175.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.05.14 End Date: 2016.05.14 Last Calib.: 2016.05.14
Start Time: 02:35:05 End Time: 09:58:29 Time On Btm: 2016.05.14 @ 05:16:15
Time Off Btm: 2016.05.14 @ 07:49:15

TEST COMMENT: IF: BOB @ 6 1/2 min.
IS: Surface return.
FF: BOB @ 9 min.
FS: Surface return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.82	113.18	Initial Hydro-static
1	54.25	112.65	Open To Flow (1)
30	258.27	126.11	Shut-In(1)
75	1320.39	124.51	End Shut-In(1)
75	277.67	124.04	Open To Flow (2)
106	441.76	126.20	Shut-In(2)
152	1304.85	125.34	End Shut-In(2)
153	2052.83	125.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	smcw 2m 98w (trace oil)	3.12
240.00	somcw 1o 3m 96w	3.37
400.00	somcw 2o 5m 93w	5.61
5.00	oil 100o	0.07
0.00	120' GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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HR Unit #1

Job Ticket: 64644

DST#: 1

ATTN: Kitt Noah

Test Start: 2016.05.14 @ 02:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	smcw 2m 98w (trace oil)	3.124
240.00	somcw 1o 3m 96w	3.367
400.00	somcw 2o 5m 93w	5.611
5.00	oil 100o	0.070
0.00	120' GIP	0.000

Total Length: 945.00 ft Total Volume: 12.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .290@ 60f = 27000ppm

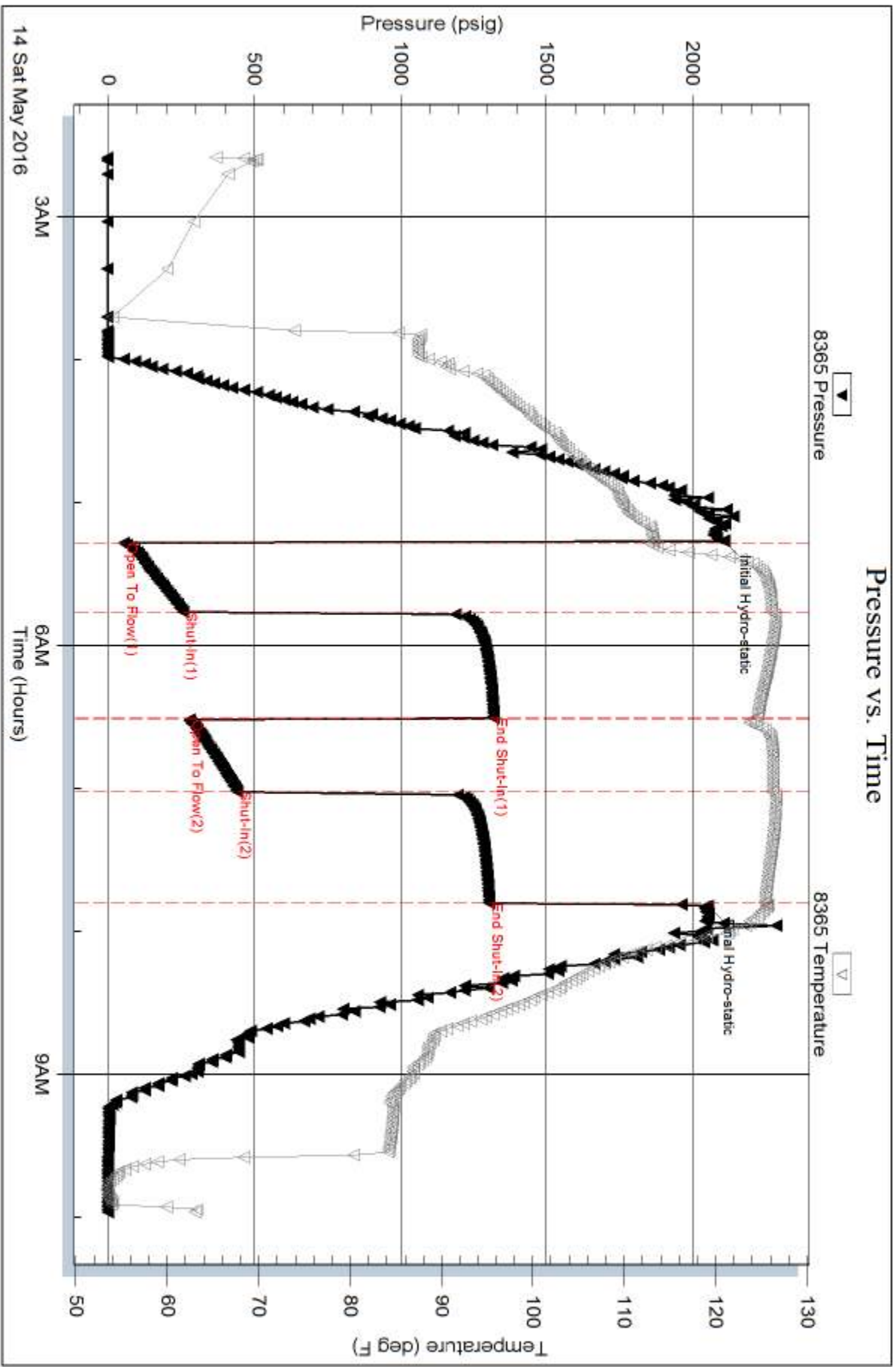
Serial #: 8365

Inside

Russell Oil, Inc

HR Unit #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 64644

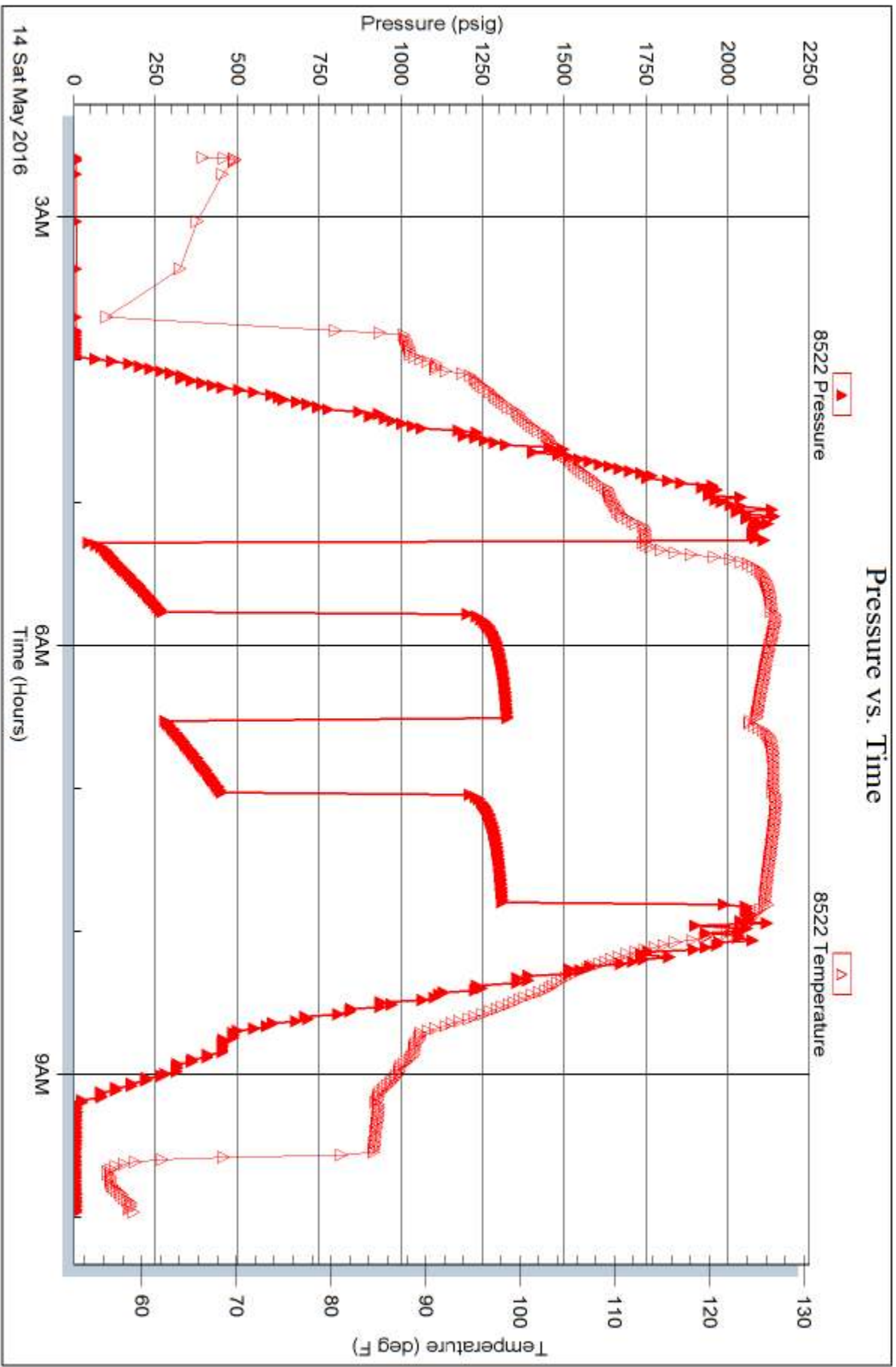
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Serial #: 8522

Outside Russell Oil, Inc

HR Unit #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64644

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