



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: 64646 **DST#: 3**
 Test Start: 2016.05.15 @ 10:25:00

GENERAL INFORMATION:

Formation: **LKC - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:05:15
 Time Test Ended: 17:17:15
Interval: 4252.00 ft (KB) To 4290.00 ft (KB) (TVD)
 Total Depth: 4290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 3025.00 ft (KB)
 3020.00 ft (CF)
 KB to GR/CF: 5.00 ft

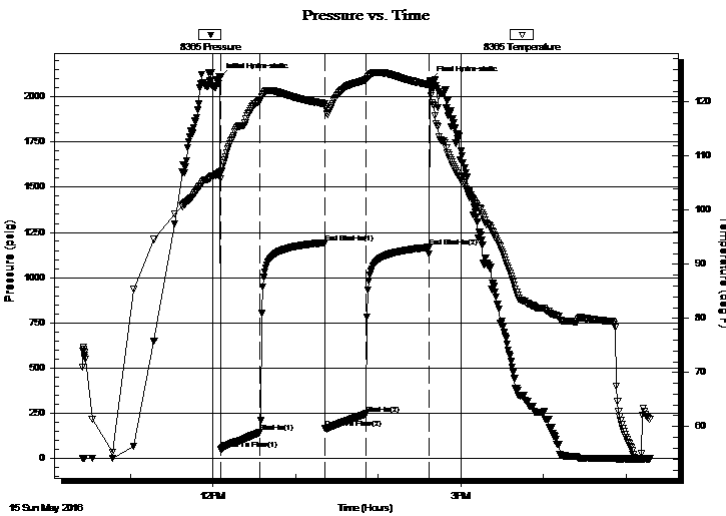
Serial #: 8365

Inside

Press@RunDepth: 245.18 psig @ 4253.00 ft (KB)
 Start Date: 2016.05.15 End Date: 2016.05.15
 Start Time: 10:25:05 End Time: 17:17:14
 Capacity: 8000.00 psig
 Last Calib.: 2016.05.15
 Time On Btm: 2016.05.15 @ 12:05:00
 Time Off Btm: 2016.05.15 @ 14:37:30

TEST COMMENT: IF: BOB @ 4 minutes.
 IS: 8" return receded to surface.
 FF: BOB @ 6 minutes
 FS: 9 " return, receded to 4".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.78	107.04	Initial Hydro-static
1	51.59	105.87	Open To Flow (1)
29	145.79	120.40	Shut-In(1)
76	1193.19	119.69	End Shut-In(1)
77	166.07	119.17	Open To Flow (2)
106	245.18	124.10	Shut-In(2)
152	1167.42	123.18	End Shut-In(2)
153	2089.00	123.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	gmco 25g 25m 50o	1.72
415.00	go 25g 75o	5.82
0.00	1500' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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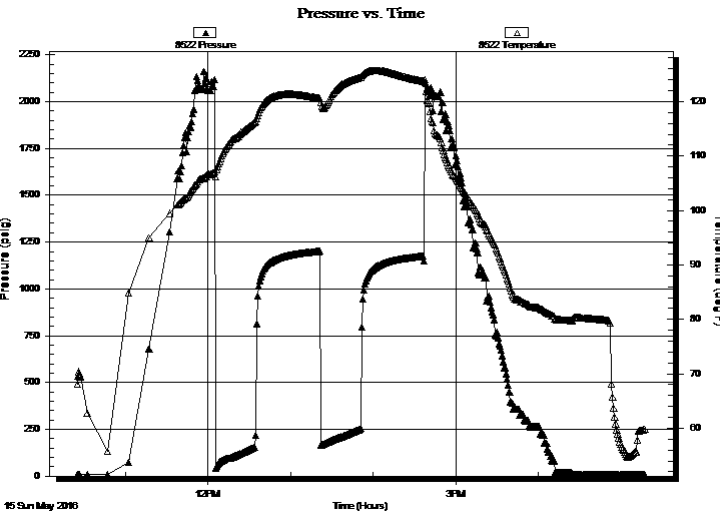
16 11s 32w Logan, Ks
HR Unit #1
 Job Ticket: 64646 **DST#: 3**
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GENERAL INFORMATION:

Formation: LKC - K		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Bradley Walter
Time Tool Opened: 12:05:15		Unit No: 69
Time Test Ended: 17:17:15		Reference Elevations: 3025.00 ft (KB)
Interval: 4252.00 ft (KB) To 4290.00 ft (KB) (TVD)		3020.00 ft (CF)
Total Depth: 4290.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good	

Serial #: 8522	Outside				
Press@RunDepth: psig @ 4253.00 ft (KB)		Capacity: 8000.00 psig			
Start Date: 2016.05.15	End Date: 2016.05.15	Last Calib.: 2016.05.15			
Start Time: 10:25:05	End Time: 17:17:14	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: BOB @ 4 minutes.
 IS: 8" return receded to surface.
 FF: BOB @ 6 minutes
 FS: 9" return, receded to 4".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	gmco 25g 25m 50o	1.72
415.00	go 25g 75o	5.82
0.00	1500' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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TESTING, INC**

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FLUID SUMMARY

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

16 11s 32w Logan, Ks
HR Unit #1
Job Ticket: 64646 **DST#: 3**
Test Start: 2016.05.15 @ 10:25:00

Mud and Cushion Information

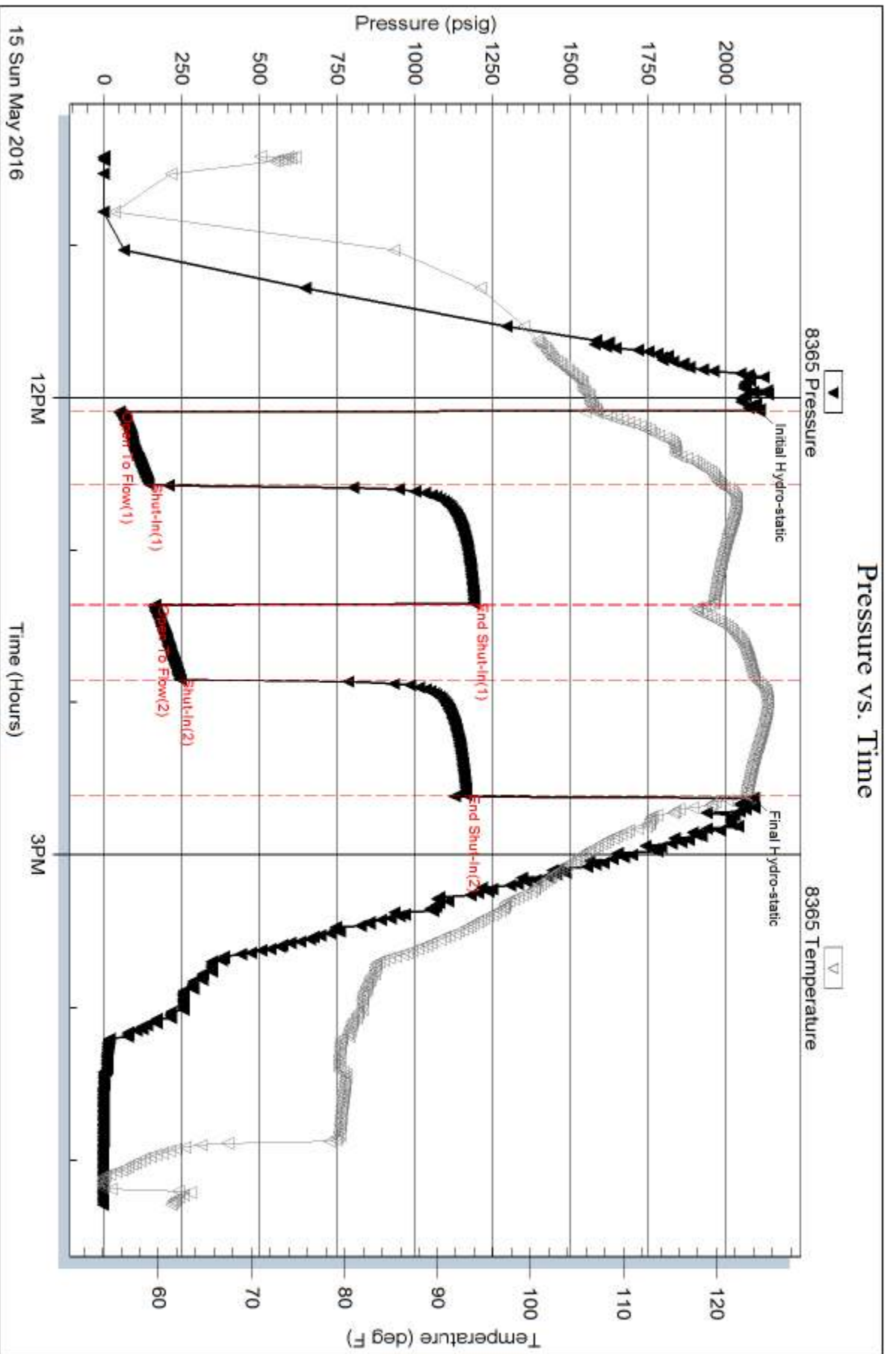
Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	gmco 25g 25m 50o	1.721
415.00	go 25g 75o	5.821
0.00	1500' GIP	0.000

Total Length: 615.00 ft Total Volume: 7.542 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

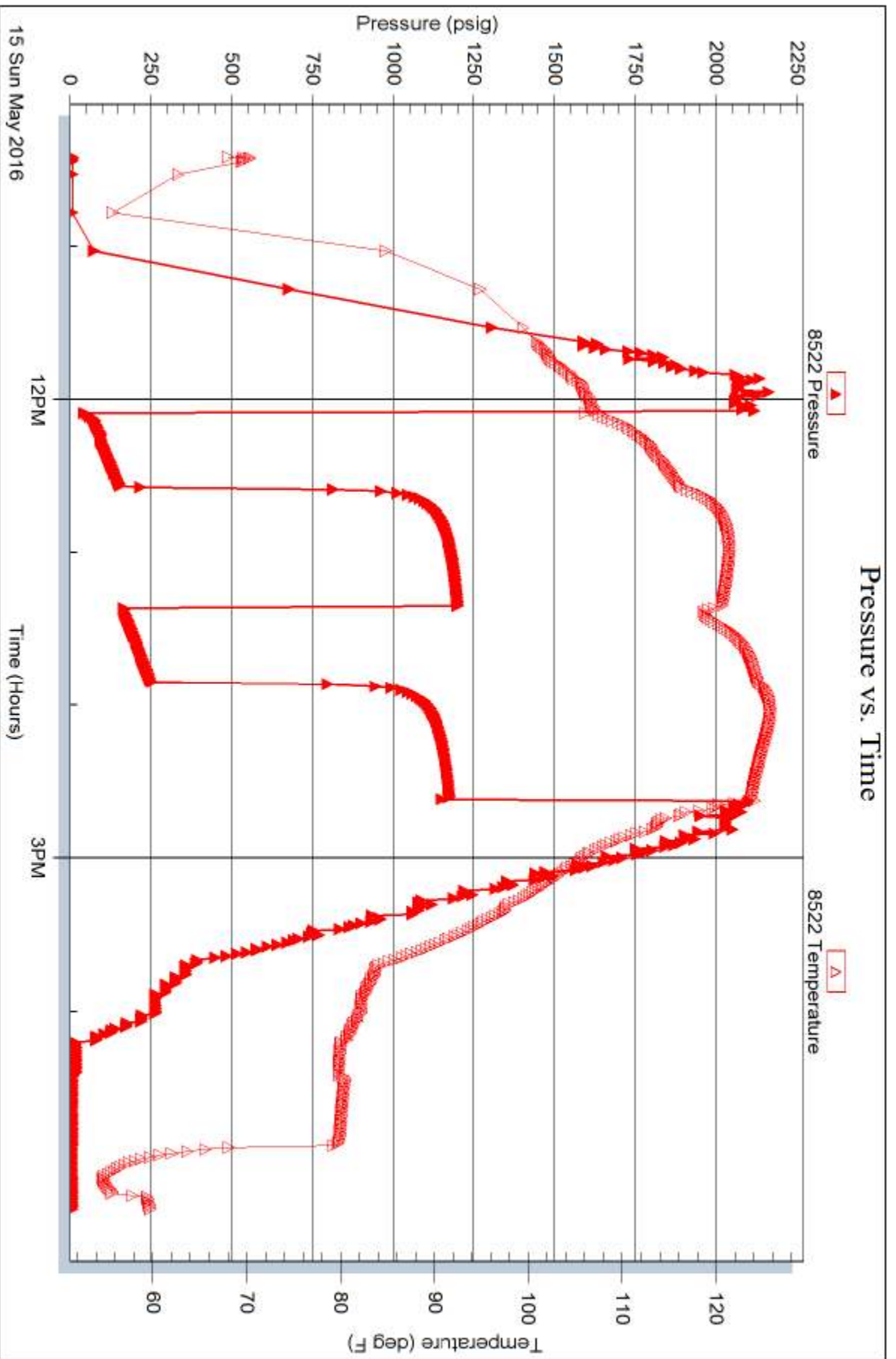


Serial #: 8522

Outside Russell Oil, Inc

HR Unit #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64646

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