



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: 64645 **DST#: 2**
Test Start: 2016.05.14 @ 20:25:00

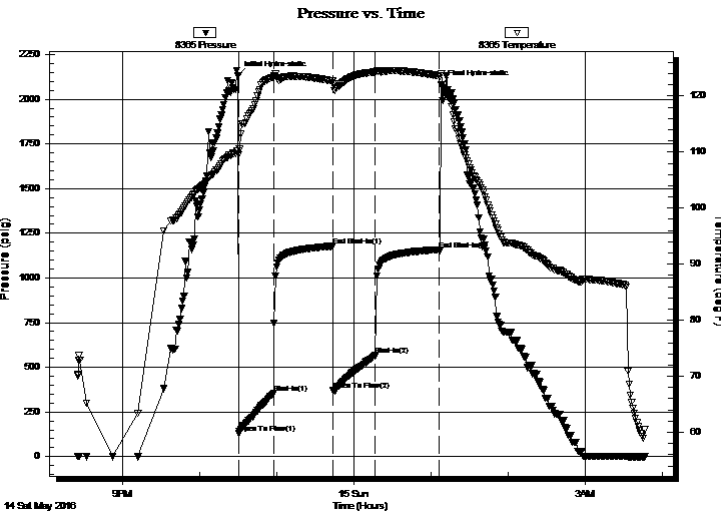
GENERAL INFORMATION:

Formation: **LKC - I & J**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 22:30:15
Tester: Bradley Walter
Time Test Ended: 03:45:45
Unit No: 69

Interval: 4202.00 ft (KB) To 4258.00 ft (KB) (TVD)
Reference Elevations: 3025.00 ft (KB)
Total Depth: 4258.00 ft (KB) (TVD) 3020.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8365 Inside
Press@RunDepth: 565.94 psig @ 4203.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.05.14 End Date: 2016.05.15 Last Calib.: 2016.05.15
Start Time: 20:25:05 End Time: 03:45:44 Time On Btm: 2016.05.14 @ 22:29:45
Time Off Btm: 2016.05.15 @ 01:07:45

TEST COMMENT: IF: BOB @ 2 min.
IS: BOB @ 15, receded to 5".
FF: BOB @ 30 sec.
FS: BOB @ 12 min. receded to 6".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.67	110.26	Initial Hydro-static
1	128.22	109.48	Open To Flow (1)
28	353.74	123.40	Shut-In(1)
74	1177.95	122.67	End Shut-In(1)
74	369.66	122.18	Open To Flow (2)
107	565.94	124.28	Shut-In(2)
157	1157.90	123.61	End Shut-In(2)
158	2079.40	124.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	somcw 1o 19m 80w	4.25
270.00	gmco 40g 20m 40o	3.79
320.00	gsmco 40g 5m 55o	4.49
240.00	gmco 50g 20m 30o	3.37
360.00	go 40g 60o	5.05
0.00	1450 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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Mud and Cushion Information

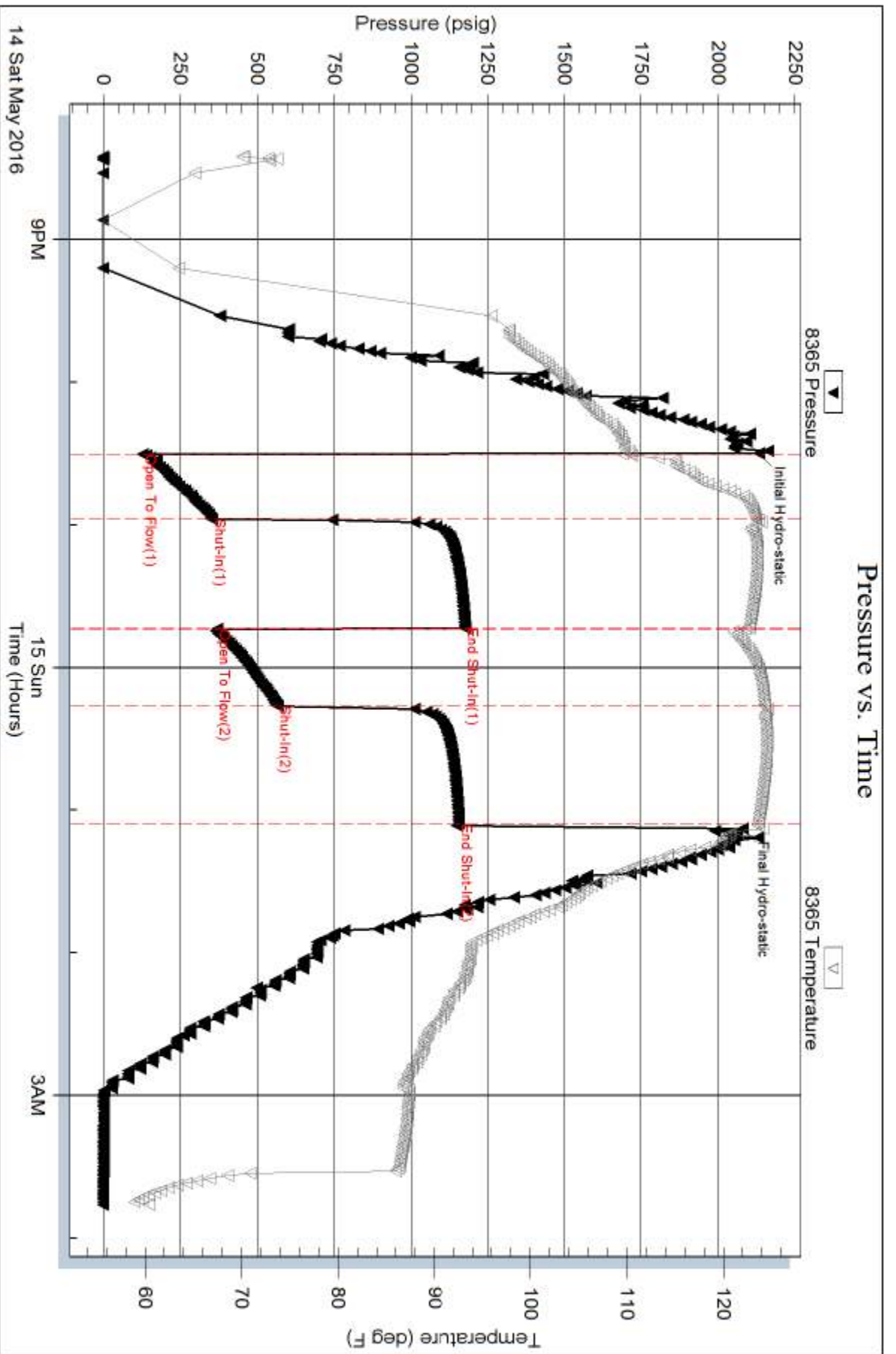
Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 48000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	somcw 1o 19m 80w	4.246
270.00	gmco 40g 20m 40o	3.787
320.00	gsmco 40g 5m 55o	4.489
240.00	gmco 50g 20m 30o	3.367
360.00	go 40g 60o	5.050
0.00	1450 GIP	0.000

Total Length: 1570.00 ft Total Volume: 20.939 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .250 @ 44F = 48000PPM

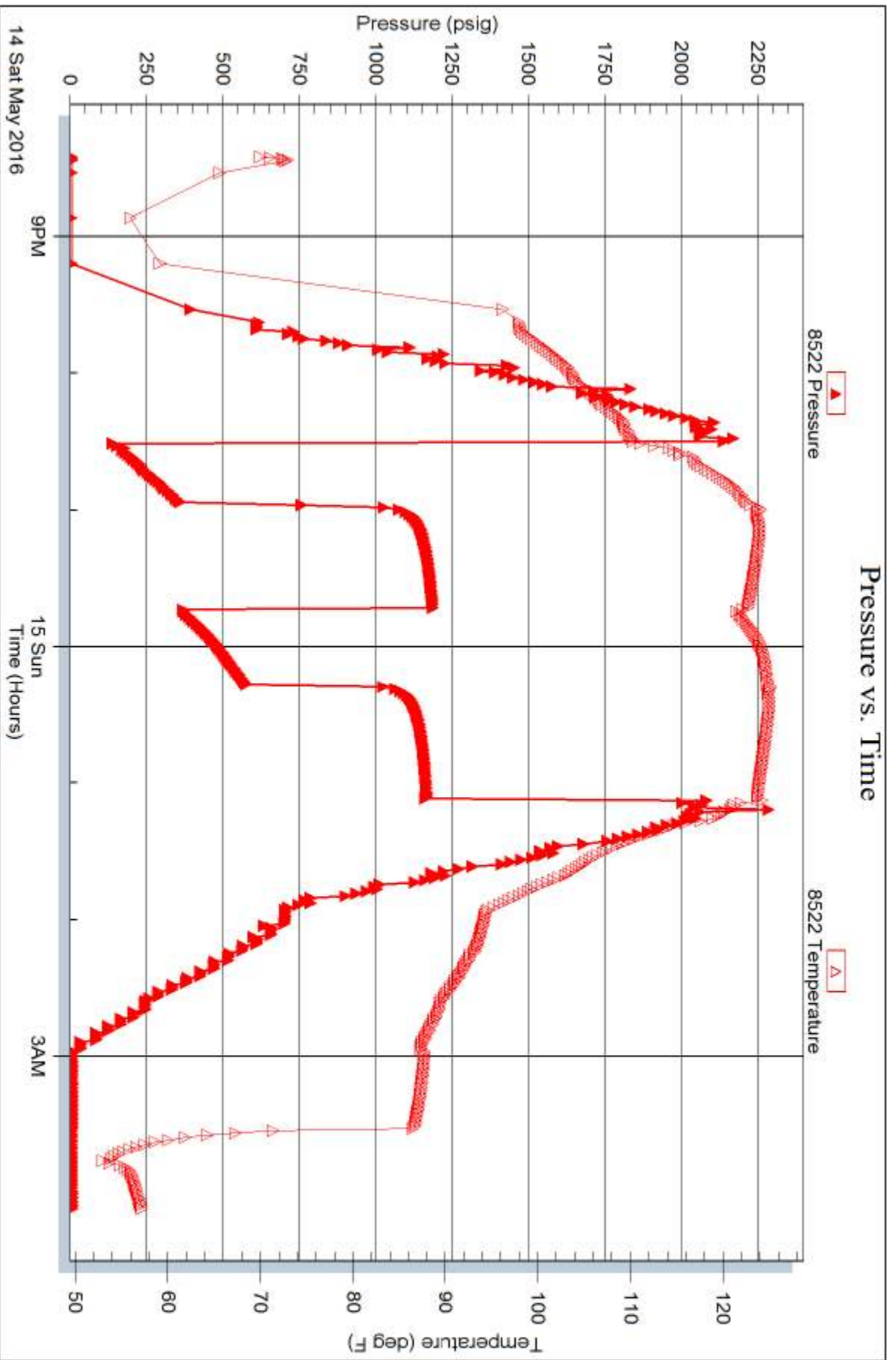


Serial #: 8522

Outside Russell Oil, Inc

HR Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64645

Printed: 2016.05.15 @ 08:08:16