

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prairie Fire Petroleum LLC

24-2S-27 Decatur Co., KS

P.O. Box 38
Norton, KS 67654

Long Haul #1-24

Job Ticket: 61227

DST#: 1

ATTN: Kevin Bailey

Test Start: 2017.05.09 @ 21:59:00

GENERAL INFORMATION:

Formation: **LKC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:30

Time Test Ended: 04:01:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **3485.00 ft (KB) To 3495.00 ft (KB) (TVD)**

Total Depth: 3495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2623.00 ft (KB)

2618.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Inside

Press@RunDepth: 367.01 psig @ 3486.00 ft (KB)

Start Date: 2017.05.09

End Date:

2017.05.10

Start Time: 21:59:01

End Time:

04:01:20

Capacity: 8000.00 psig

Last Calib.: 2017.05.10

Time On Btrn: 2017.05.10 @ 00:04:20

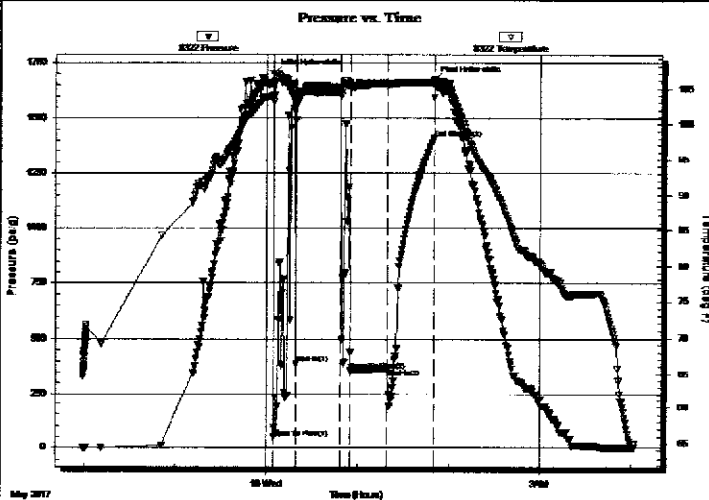
Time Off Btrn: 2017.05.10 @ 01:50:10

TEST COMMENT: 15-IF-B.O.B "12inches"@ 4mins

30-ISI-No blow

30-FF-Blow back built to 3 1/2" dead @ 4 1/2 mins.(head manifold w as loose w hen laying down head Jt)

30-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.98	104.05	Initial Hydro-static
1	47.53	103.09	Open To Flow (1)
15	390.45	103.37	Shut-In(1)
45	1641.72	104.41	End Shut-In(1)
51	358.34	105.29	Open To Flow (2)
75	367.01	105.64	Shut-In(2)
106	1409.28	105.80	End Shut-In(2)
106	1667.84	105.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
678.00	Mud 100%	9.51

Gas Rates

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



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Norton, KS 67654

Long Haul #1-24

Job Ticket: 61227

DST#: 1

ATTN: Kevin Bailey

Test Start: 2017.05.09 @ 21:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
678.00	Mud 100%	9.511

Total Length: 678.00 ft

Total Volume: 9.511 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8322

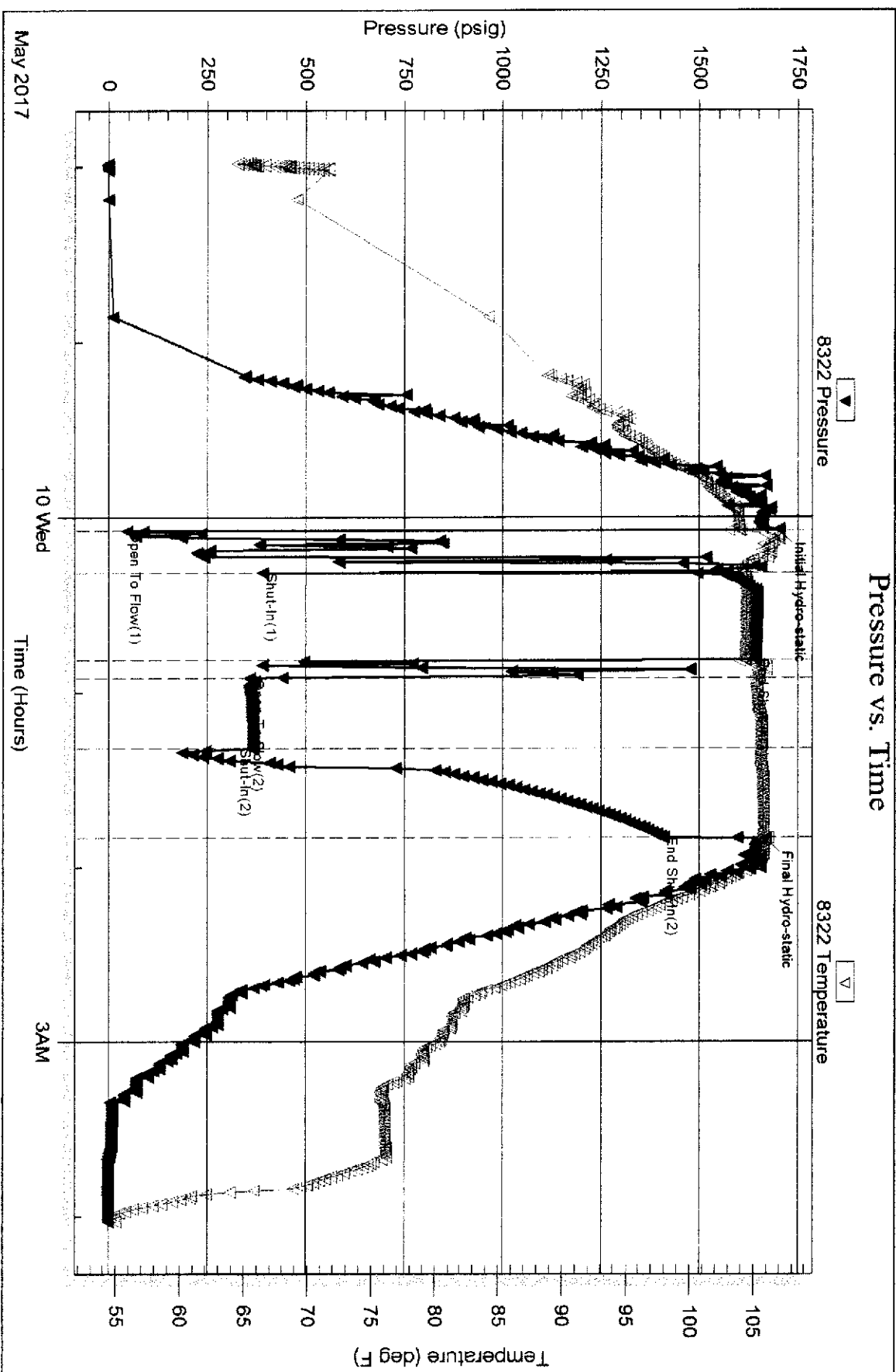
Inside

Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 1

Pressure vs. Time



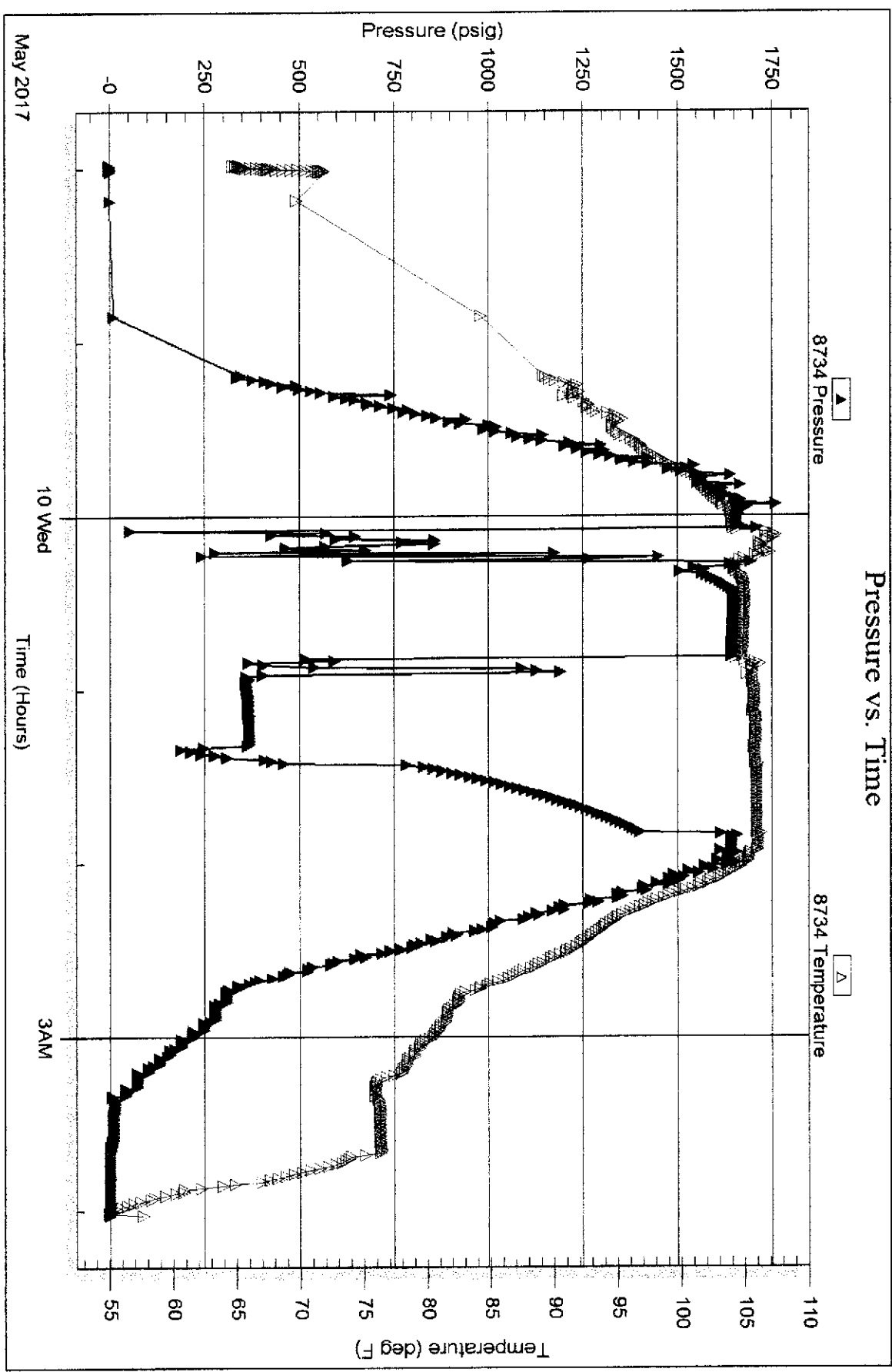
Serial #: 8734

Outside Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 1

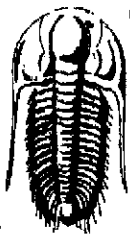
Pressure vs. Time



Triadite Testing, Inc

Ref. No: 61227

Printed: 2017.05.10 @ 13:18:54



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prairie Fire Petroleum LLC

24-2S-27 Decatur Co., KS

P.O. Box 38
Norton, KS 67654

Long Haul #1-24

Job Ticket: 61228 **DST#: 2**

ATTN: Kevin Bailey

Test Start: 2017.05.10 @ 14:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 44.00 sec/qt
Water Loss: 7.17 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
179.00	Mud 100%	2.511

Total Length: 179.00 ft Total Volume: 2.511 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

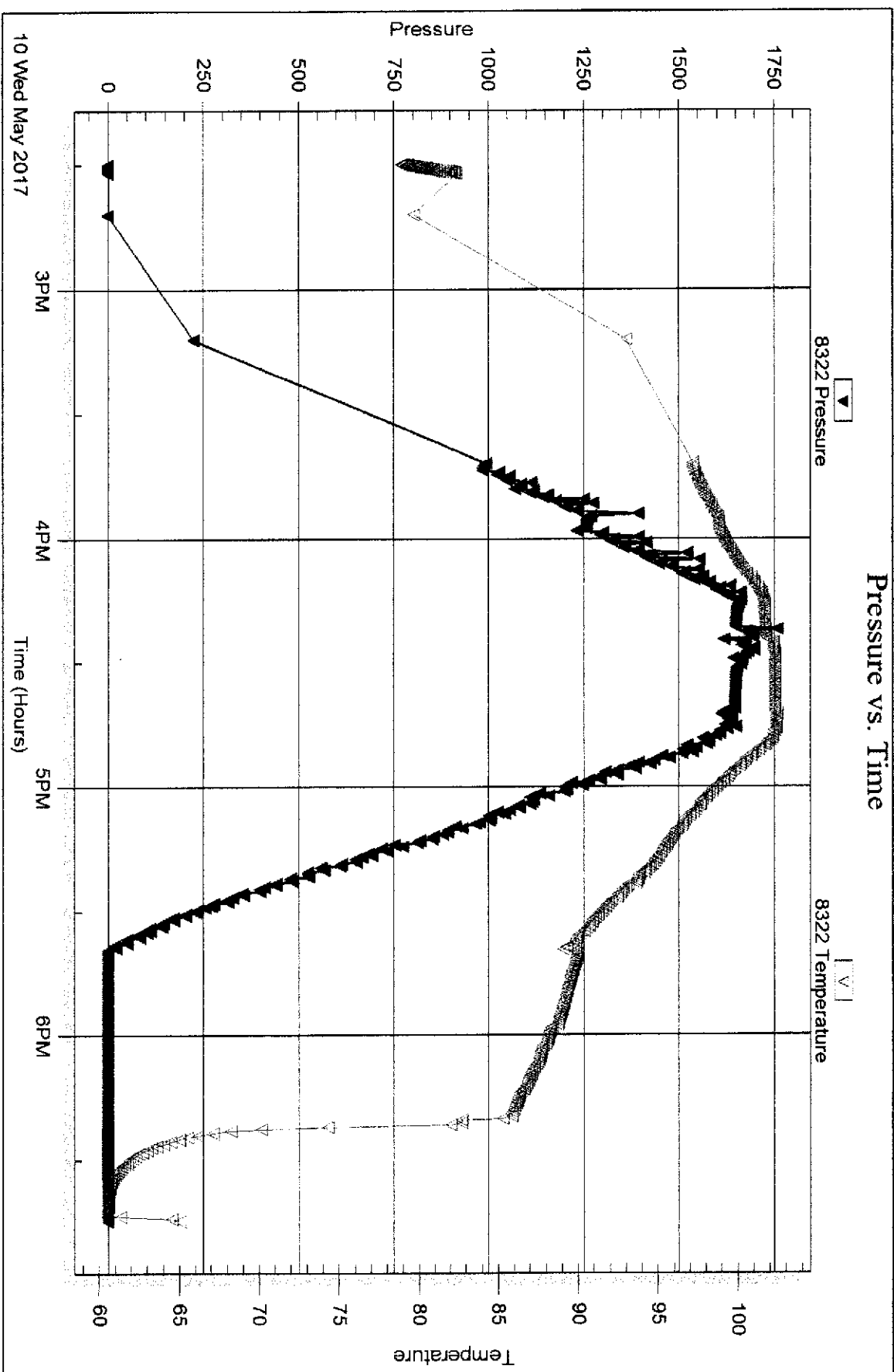
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Inside

Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 2



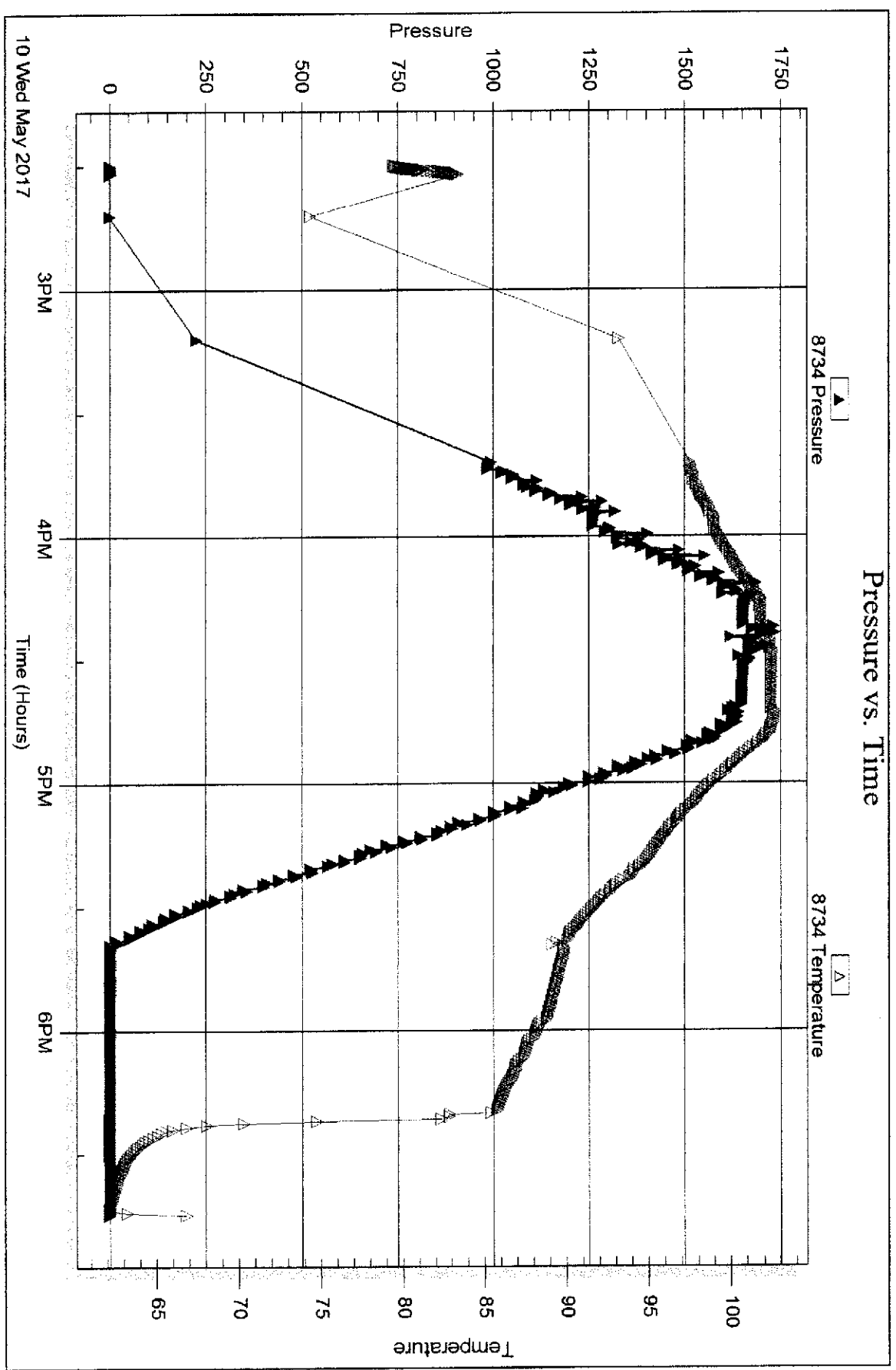
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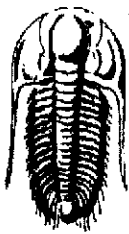
Outside

Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prairie Fire Petroleum LLC

24-2S-27 Decatur Co., KS

P.O. Box 38
Norton, KS 67654

Long Haul #1-24

Job Ticket: 61229

DST#: 3

ATTN: Kevin Bailey

Test Start: 2017.05.10 @ 19:21:17

GENERAL INFORMATION:

Formation: **Lansing A,B,C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:27:47

Time Test Ended: 03:24:56

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Martine Salinas**

Unit No: **82**

Interval: **3446.00 ft (KB) To 3536.00 ft (KB) (TVD)**

Total Depth: **3536.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2623.00 ft (KB)**

2618.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **591.35 psig @ 3447.00 ft (KB)**

Start Date: **2017.05.10**

End Date: **2017.05.11**

Start Time: **19:21:18**

End Time: **03:24:57**

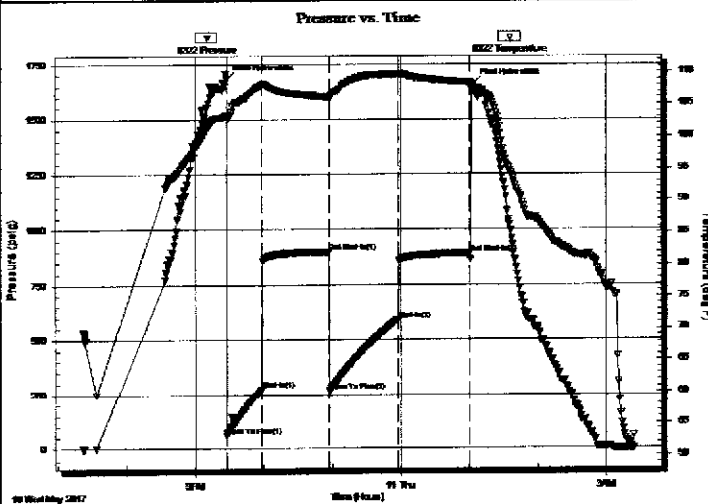
Capacity: **8000.00 psig**

Last Calib.: **2017.05.11**

Time On Btm: **2017.05.10 @ 21:26:57**

Time Off Btm: **2017.05.11 @ 01:03:37**

TEST COMMENT: 30-F- S. blow built to B.O.B (12 inches) @ 6 1/2 mins
60-IS- Weak S. blow
60-FF- Blow back built to B.O.B (12 inches) @ 8 mins
60-FS- Weak S. blow dead @ 38 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.63	103.22	Initial Hydro-static
1	60.15	102.78	Open To Flow (1)
32	274.30	108.04	Shut-In(1)
91	901.28	106.12	End Shut-In(1)
91	267.44	105.92	Open To Flow (2)
151	591.35	109.67	Shut-In(2)
214	893.45	108.43	End Shut-In(2)
217	1660.02	107.08	Final Hydro-static

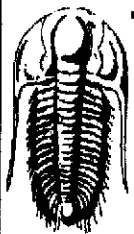
Recovery

Length (ft)	Description	Volume (bbl)
630.00	SOSWCM 65%M, 34%W, 1%O	8.84
509.00	SOSMCW 20%M, 79%W, 1%O	7.14
10.00	SOSWCM 66%M, 33%W, 1%O	0.14

* Recovery from multiple tests

Gas Rates

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



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24-2S-27 Decatur Co., KS

P.O. Box 38
Norton, KS 67654

Long Haul #1-24

Job Ticket: 61229

DST#: 3

ATTN: Kevin Bailey

Test Start: 2017.05.10 @ 19:21:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 8500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	SOSWCM 65%M, 34%W, 1%O	8.837
509.00	SOSMCW 20%M, 79%W, 1%O	7.140
10.00	SOSWCM 66%M, 33%W, 1%O	0.140

Total Length: 1149.00 ft Total Volume: 16.117 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.0@53 degs

Serial #: 8322

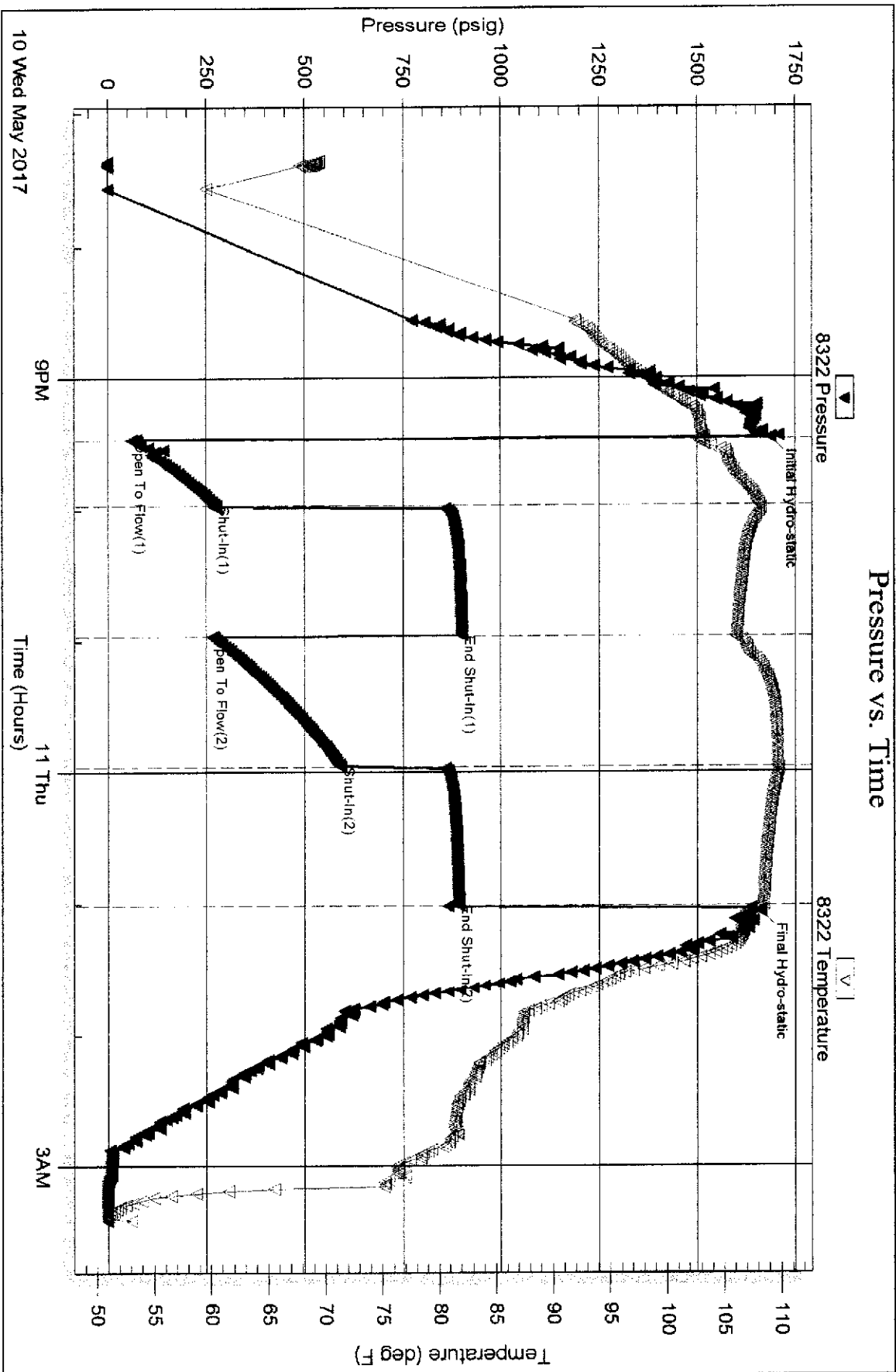
Inside

Parie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 3

Pressure vs. Time

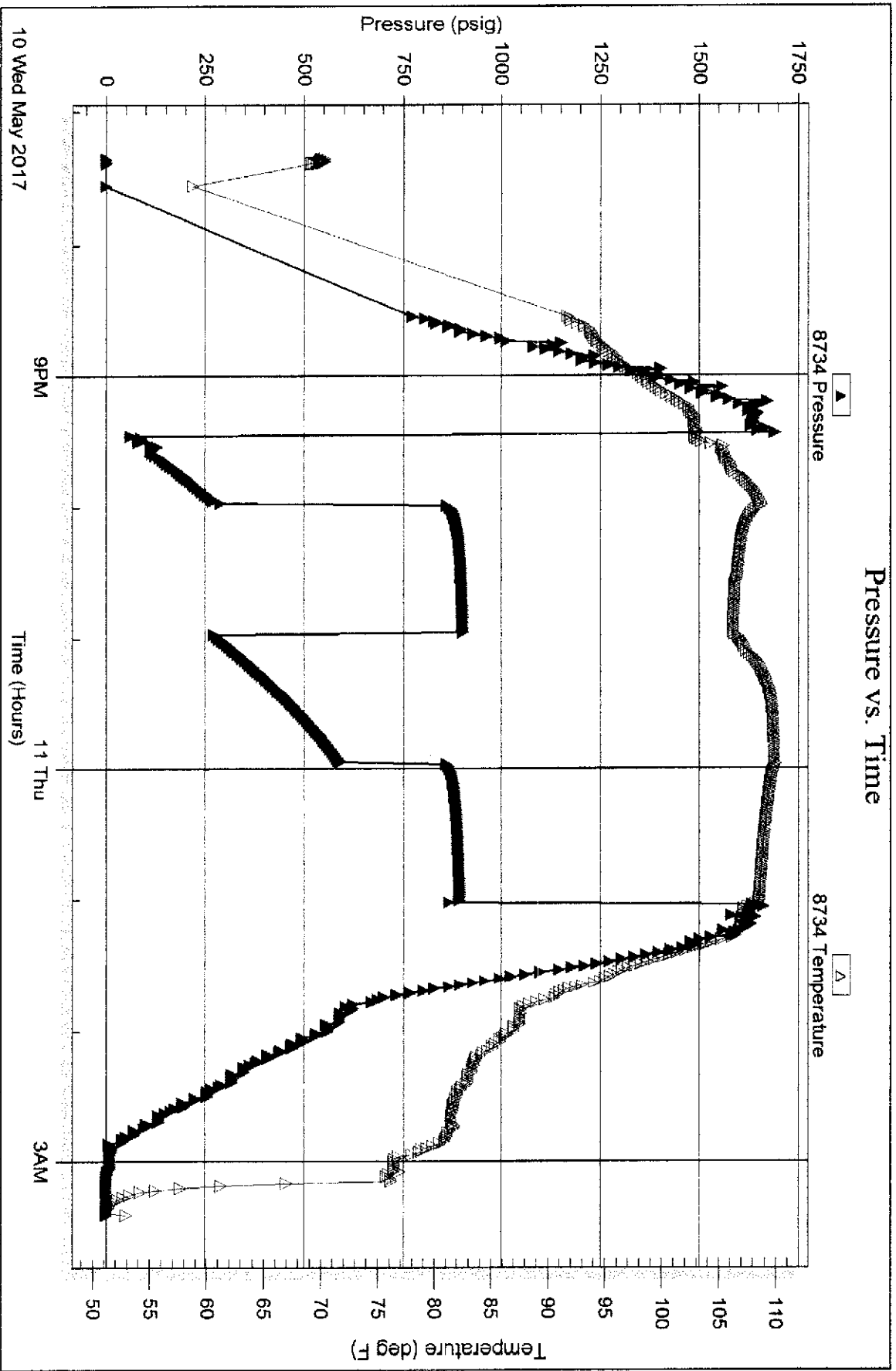


Serial #: 8734

Outside Prairie Fire Petroleum LLC

Long Haul #1-24

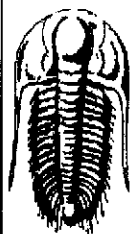
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 61229

Printed: 2017.05.11 @ 07:32:59



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prairie Fire Petroleum LLC

24-2S-27 Decatur Co., KS

P.O. Box 38
Norton, KS 67654

Long Haul #1-24

Job Ticket: 61230 **DST#: 4**

ATTN: Kevin Bailey

Test Start: 2017.05.12 @ 12:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

58000 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
461.00	MCW 30%M,70%W	6.467
751.00	MCW 7%M,93%W	10.535
5.00	MCW 15%M, 85%W	0.070

Total Length: 1217.00 ft Total Volume: 17.072 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .126@77.5deg

Serial #: 8322

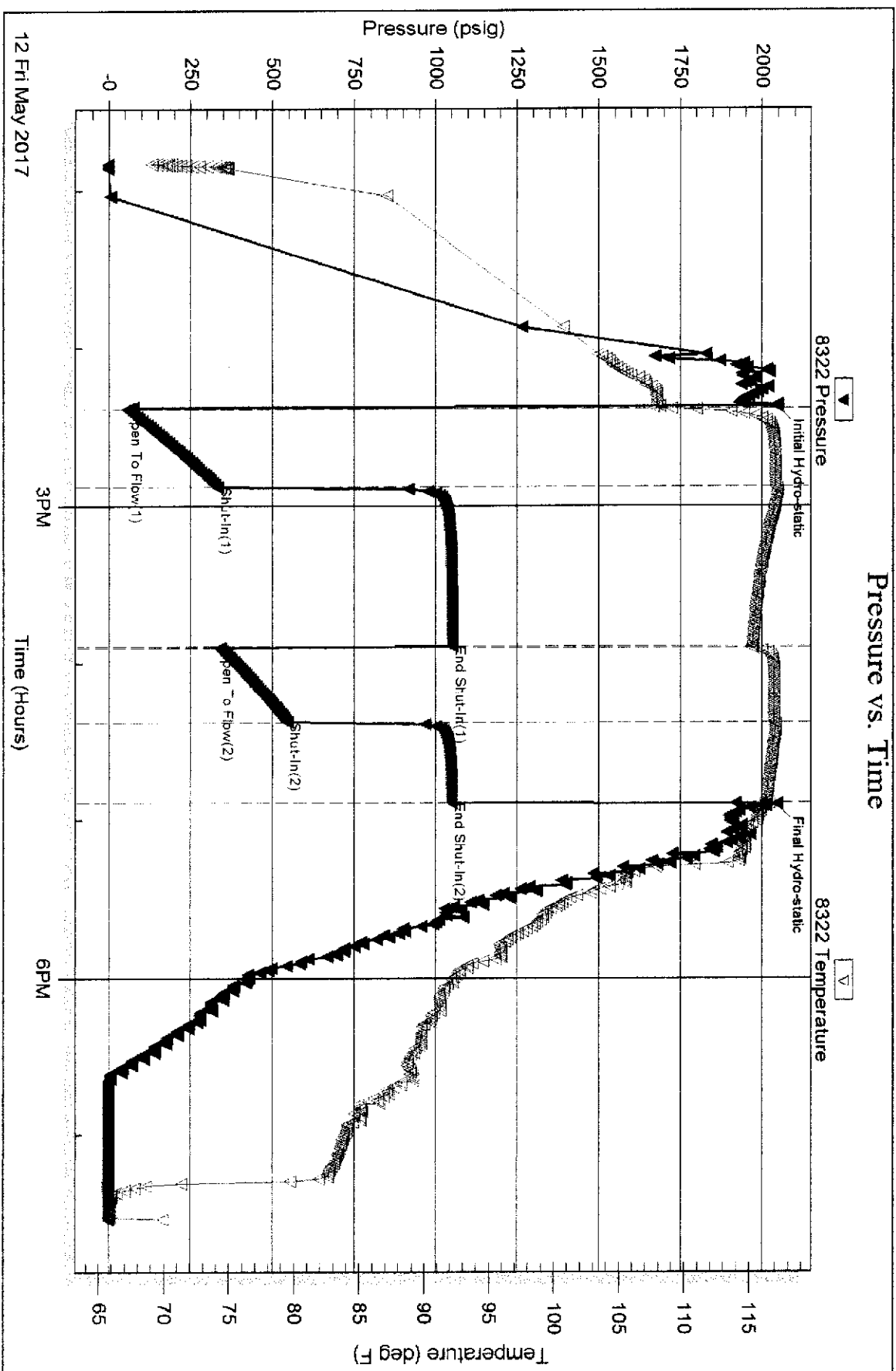
Inside

Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 4

Pressure vs. Time



12 Fri May 2017

Triobite Testing, Inc

Ref. No: 61230

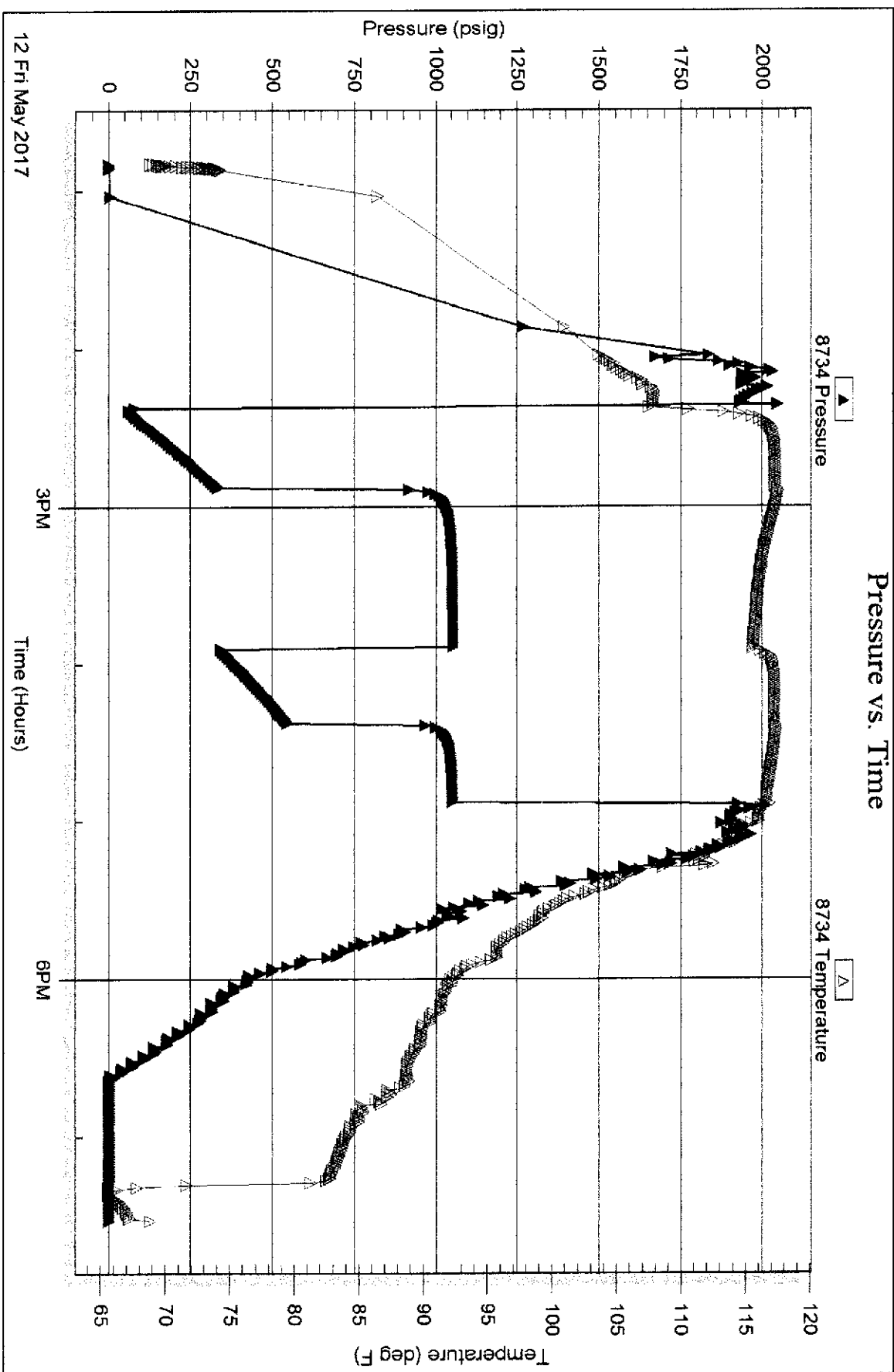
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Serial #: 8734

Outside Prairie Fire Petroleum LLC

Long Haul #1-24

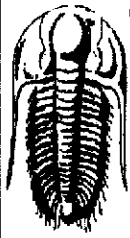
DST Test Number: 4



Trialite Testing, Inc

Ref. No: 61230

Printed: 2017.05.12 @ 20:39:41



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DRILL STEM TEST REPORT

FLUID SUMMARY

Prairie Fire Petroleum LLC

24-2S-27 Decatur Co., KS

P.O. Box 38
Norton, KS 67654

Long Haul #1-24

Job Ticket: 61231

DST#: 5

ATTN: Kevin Bailey

Test Start: 2017.05.13 @ 13:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 76.00 sec/qt

Water Loss: 7.80 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	tool didnt open	0.000

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

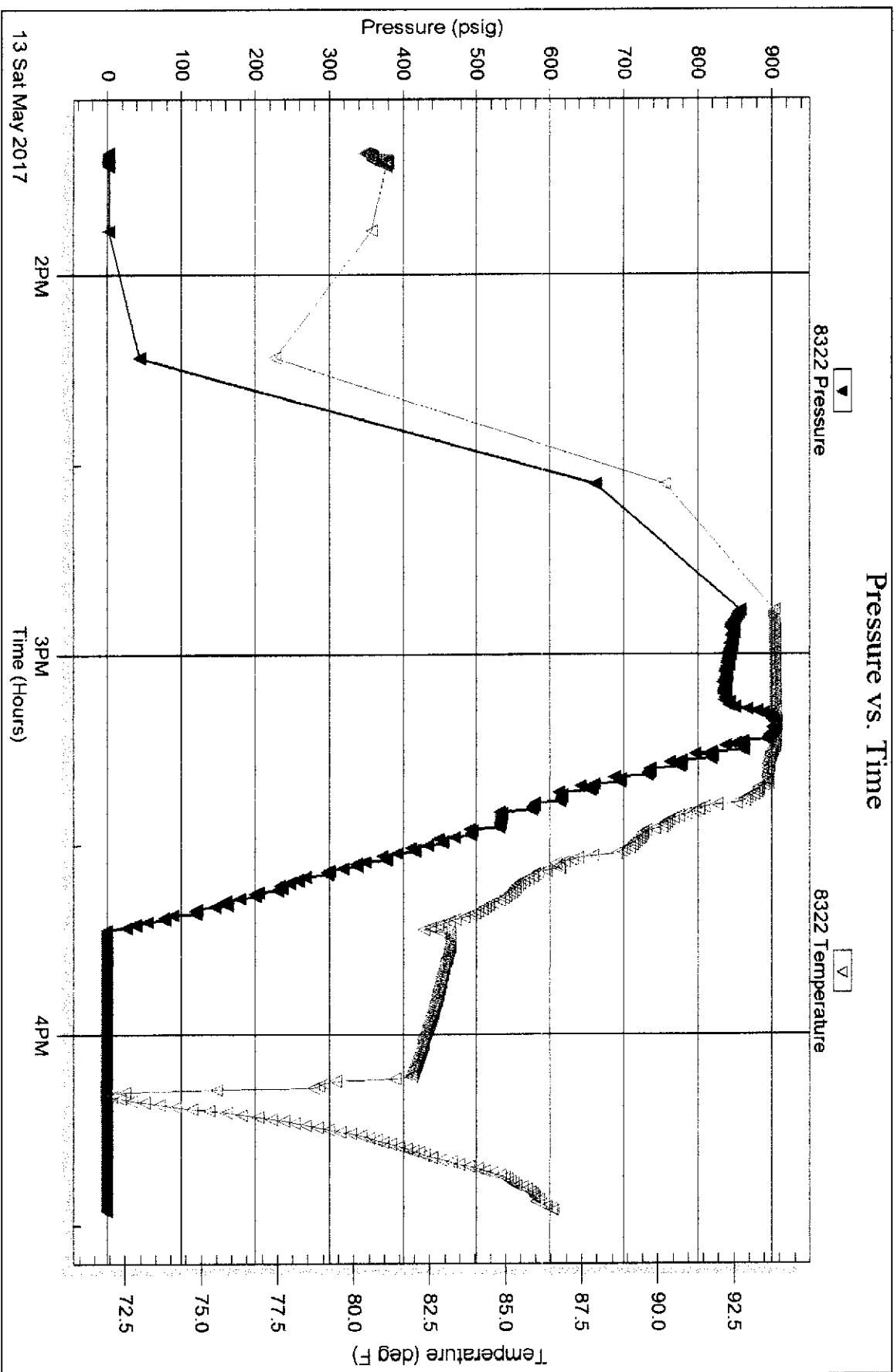
Serial #: 8322

Inside

Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 5

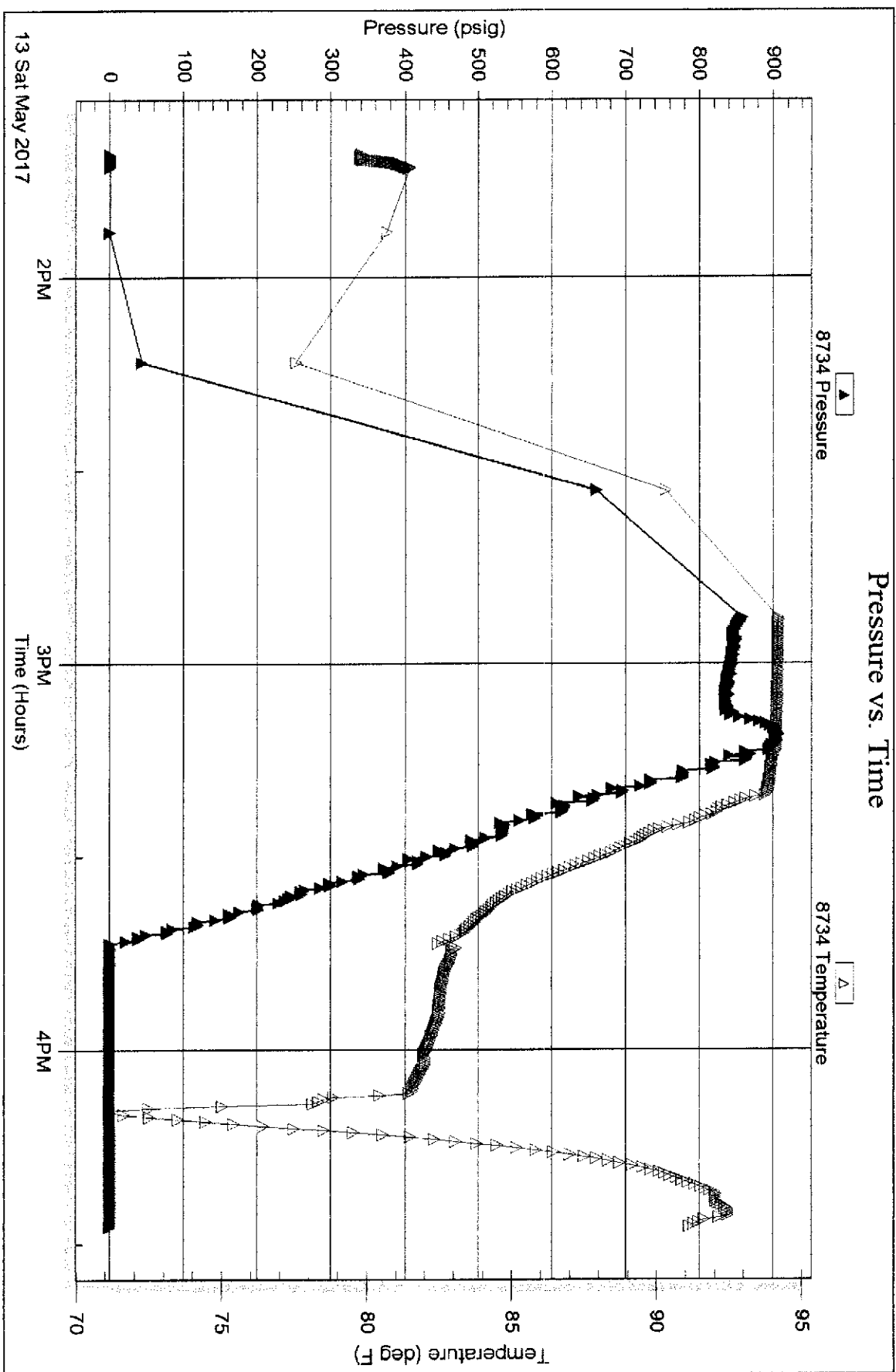


Serial #: 8734

Outside Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 5



Tridibite Testing, Inc

Ref. No: 61231

Printed: 2017.05.14 @ 10:47:17

Serial #: 6752

Prairie Fire Petroleum LLC

Long Haul #1-24

DST Test Number: 5

