



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64809

DST#: 1

ATTN: Tim Priest

Test Start: 2019.09.15 @ 12:46:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:40:00

Time Test Ended: 19:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4483.00 ft (KB) To 4496.00 ft (KB) (TVD)

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4496.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522

Inside

Press@RunDepth: 90.60 psig @ 4384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.15

End Date:

2019.09.15

Last Calib.: 2019.09.15

Start Time: 12:46:05

End Time:

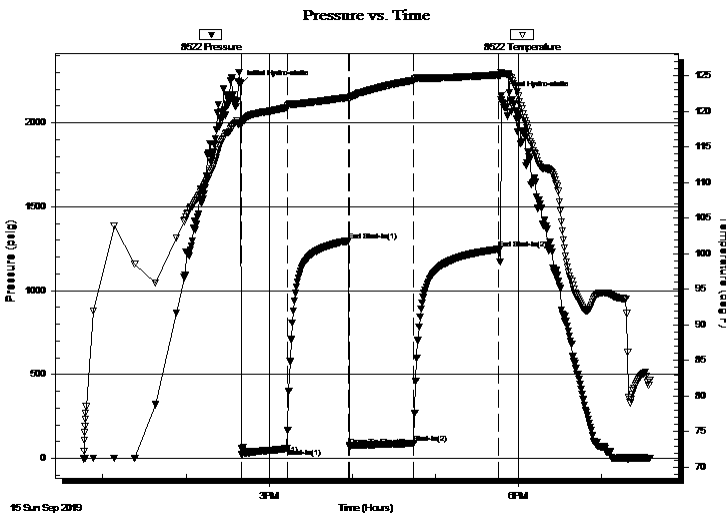
19:34:29

Time On Btm: 2019.09.15 @ 14:39:15

Time Off Btm: 2019.09.15 @ 17:47:30

TEST COMMENT: 30- IF: 3 1/4" blow .
45- IS: No return.
30- FF: 2 3/4" blow .
60- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.77	118.29	Initial Hydro-static
1	24.96	118.34	Open To Flow (1)
34	60.67	120.57	Shut-In(1)
78	1296.63	121.93	End Shut-In(1)
79	70.82	121.80	Open To Flow (2)
125	90.60	124.34	Shut-In(2)
186	1246.79	125.11	End Shut-In(2)
189	2161.20	125.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m (oil spots in tool)	0.99

Gas Rates

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



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FLUID SUMMARY

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Gaskill 1-36

Job Ticket: 64809

DST#: 1

ATTN: Tim Priest

Test Start: 2019.09.15 @ 12:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	w cm 20w 80m (oil spots in tool)	0.993

Total Length: 150.00 ft Total Volume: 0.993 bbl

Num Fluid Samples: 0

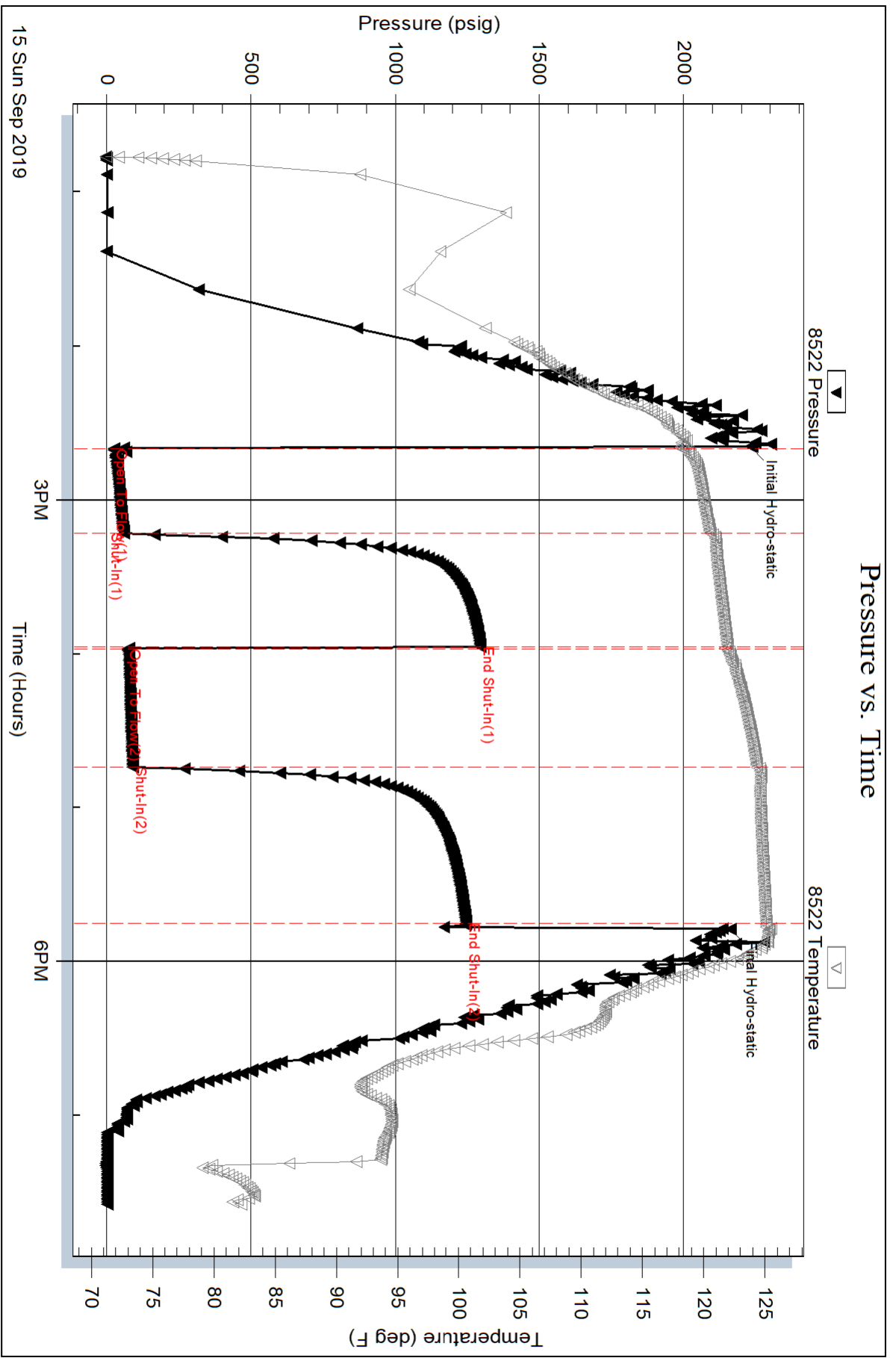
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .331 @ 86f = 19000ppm

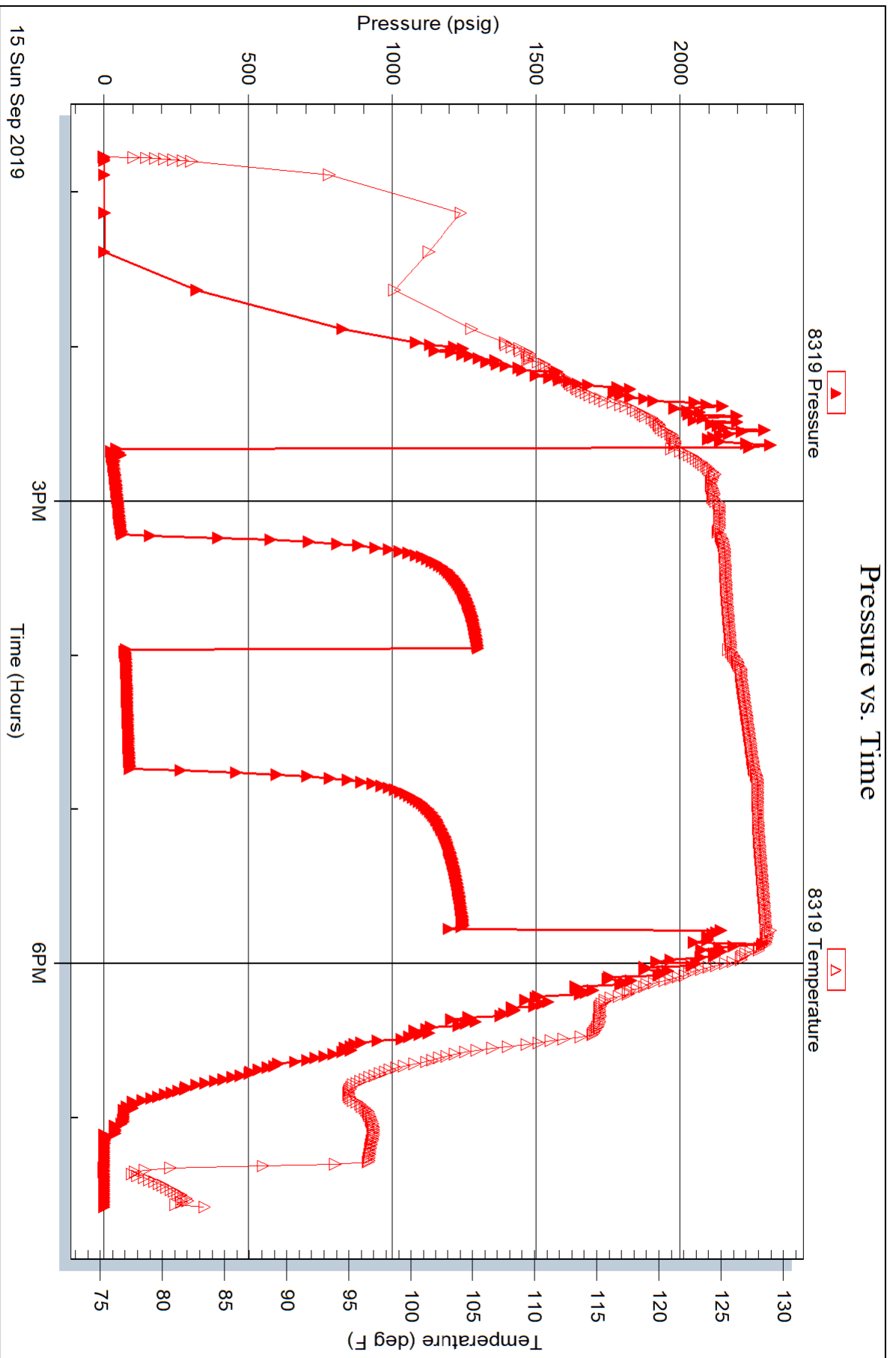


Serial #: 8319

Outside Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64810

DST#: 2

ATTN: Tim Priest

Test Start: 2019.09.16 @ 19:33:00

GENERAL INFORMATION:

Formation: **Marmaton A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:45

Time Test Ended: 01:14:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4544.00 ft (KB) To 4625.00 ft (KB) (TVD)

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4625.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 26.43 psig @ 4545.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.16

End Date:

2019.09.17

Last Calib.: 2019.09.17

Start Time: 19:33:05

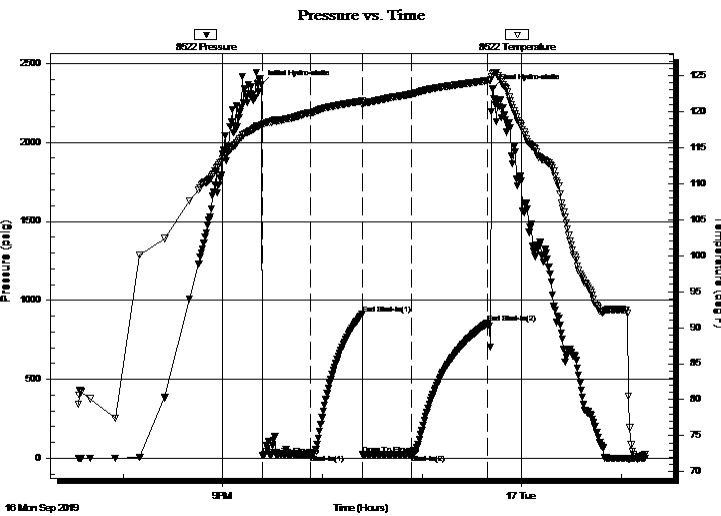
End Time:

01:14:14

Time On Btm: 2019.09.16 @ 21:23:00

Time Off Btm: 2019.09.16 @ 23:42:30

TEST COMMENT: 30- IF: 3/4" blow .
30- IS: No return.
30: FF: No blow .
45- FF: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.20	118.16	Initial Hydro-static
1	16.48	118.09	Open To Flow (1)
30	22.60	119.87	Shut-In(1)
61	911.55	121.48	End Shut-In(1)
61	24.73	120.88	Open To Flow (2)
91	26.43	122.43	Shut-In(2)
137	857.72	124.32	End Shut-In(2)
140	2342.02	125.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100m (oil spots in tool)	0.10

* Recovery from multiple tests

Gas Rates

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



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Gaskill 1-36

Job Ticket: 64810

DST#: 2

ATTN: Tim Priest

Test Start: 2019.09.16 @ 19:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100m (oil spots in tool)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

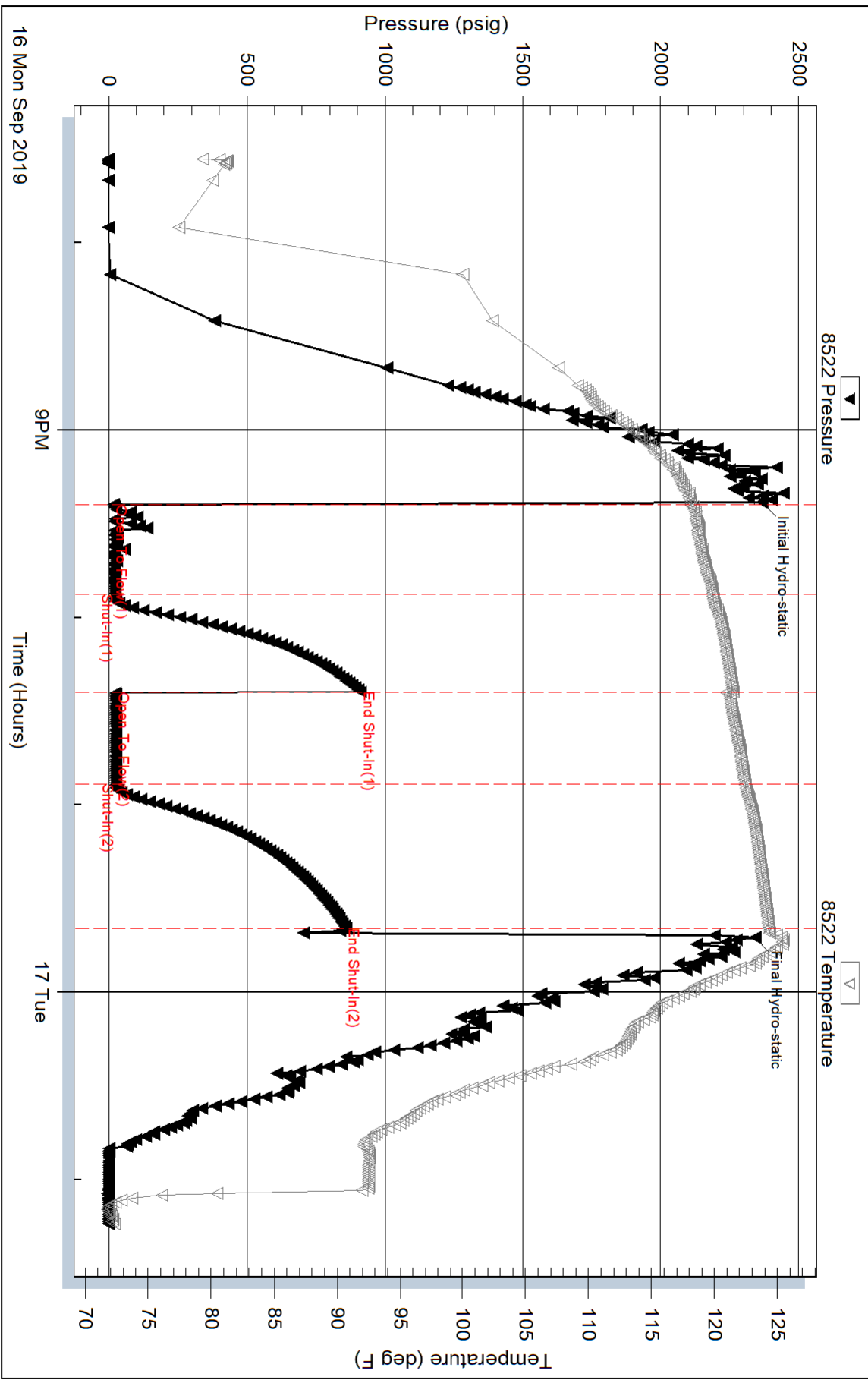
Inside

Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 2

Pressure vs. Time

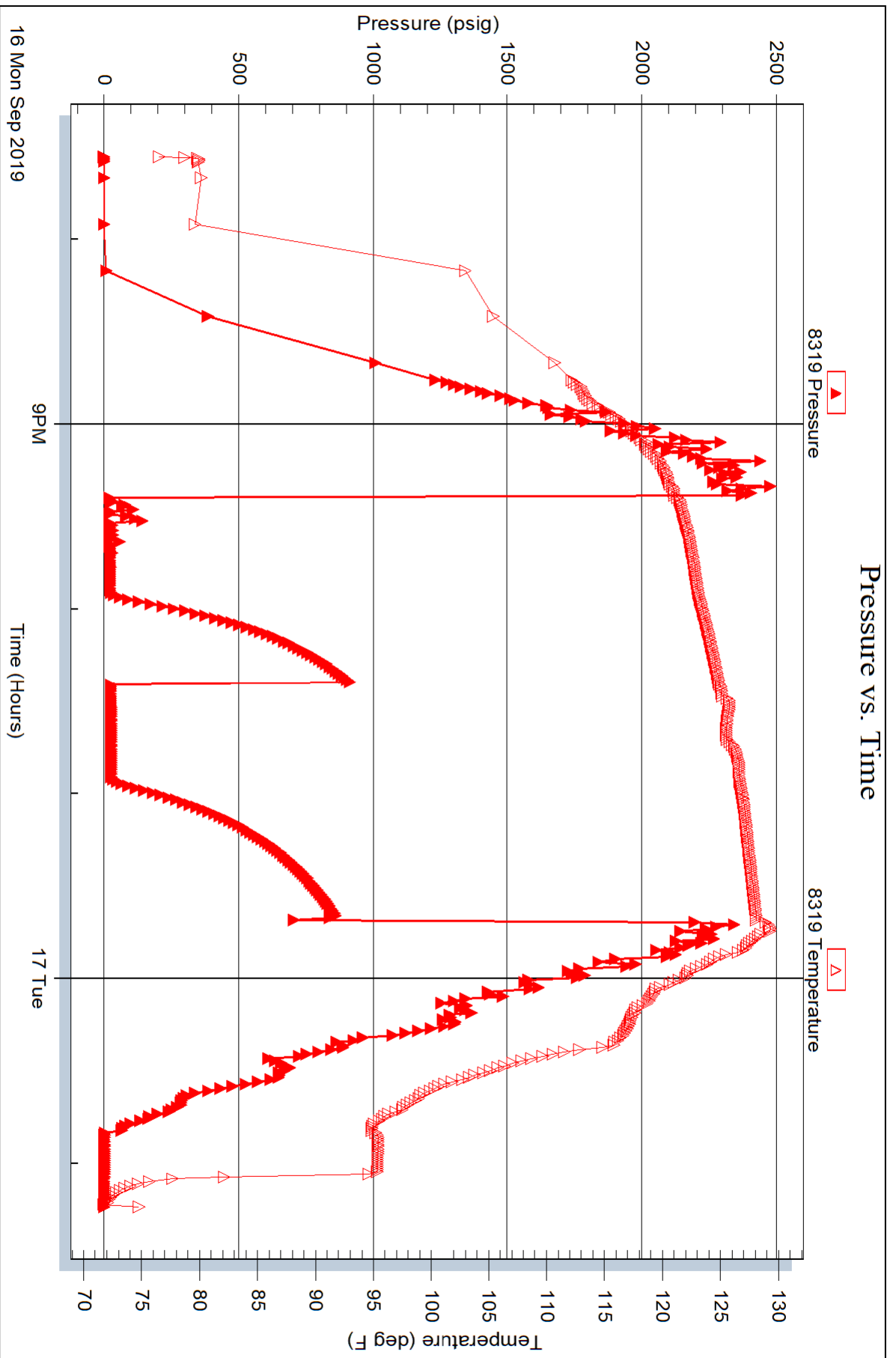


Serial #: 8319

Outside Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 2





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DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
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Gaskill 1-36

Job Ticket: 64811

DST#: 3

ATTN: Tim Priest

Test Start: 2019.09.17 @ 09:46:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:00

Time Test Ended: 16:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4637.00 ft (KB) To 4665.00 ft (KB) (TVD)**

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4665.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 29.51 psig @ 4638.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.17 End Date: 2019.09.17

Last Calib.: 2019.09.17

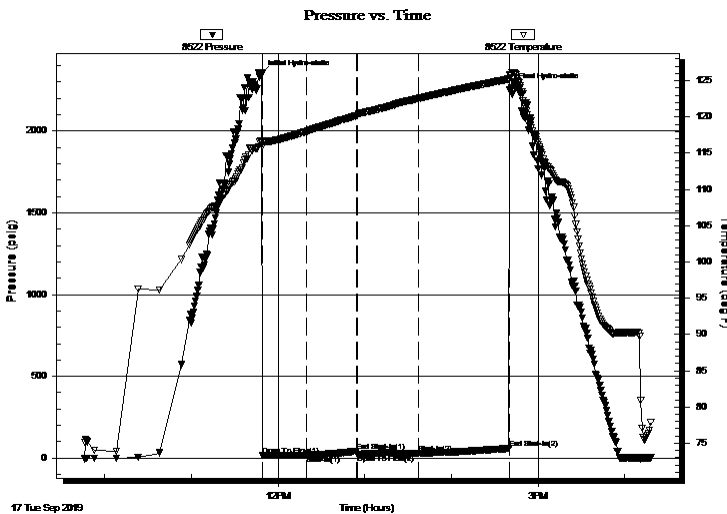
Start Time: 09:46:05 End Time: 16:18:29

Time On Btm: 2019.09.17 @ 11:48:45

Time Off Btm: 2019.09.17 @ 14:41:30

TEST COMMENT: 30- IF: 1" blow.
30- IS: No return.
45- FF: Surface blow, died and came back.
60- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.69	116.65	Initial Hydro-static
1	16.06	115.92	Open To Flow (1)
31	18.14	118.02	Shut-In(1)
66	42.54	120.17	End Shut-In(1)
66	22.75	120.20	Open To Flow (2)
109	29.51	122.56	Shut-In(2)
172	59.33	125.23	End Shut-In(2)
173	2266.94	125.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	socm 2o 98m	0.07

Gas Rates

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

* Recovery from multiple tests



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Gaskill 1-36

Job Ticket: 64811

DST#: 3

ATTN: Tim Priest

Test Start: 2019.09.17 @ 09:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	socm 2o 98m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

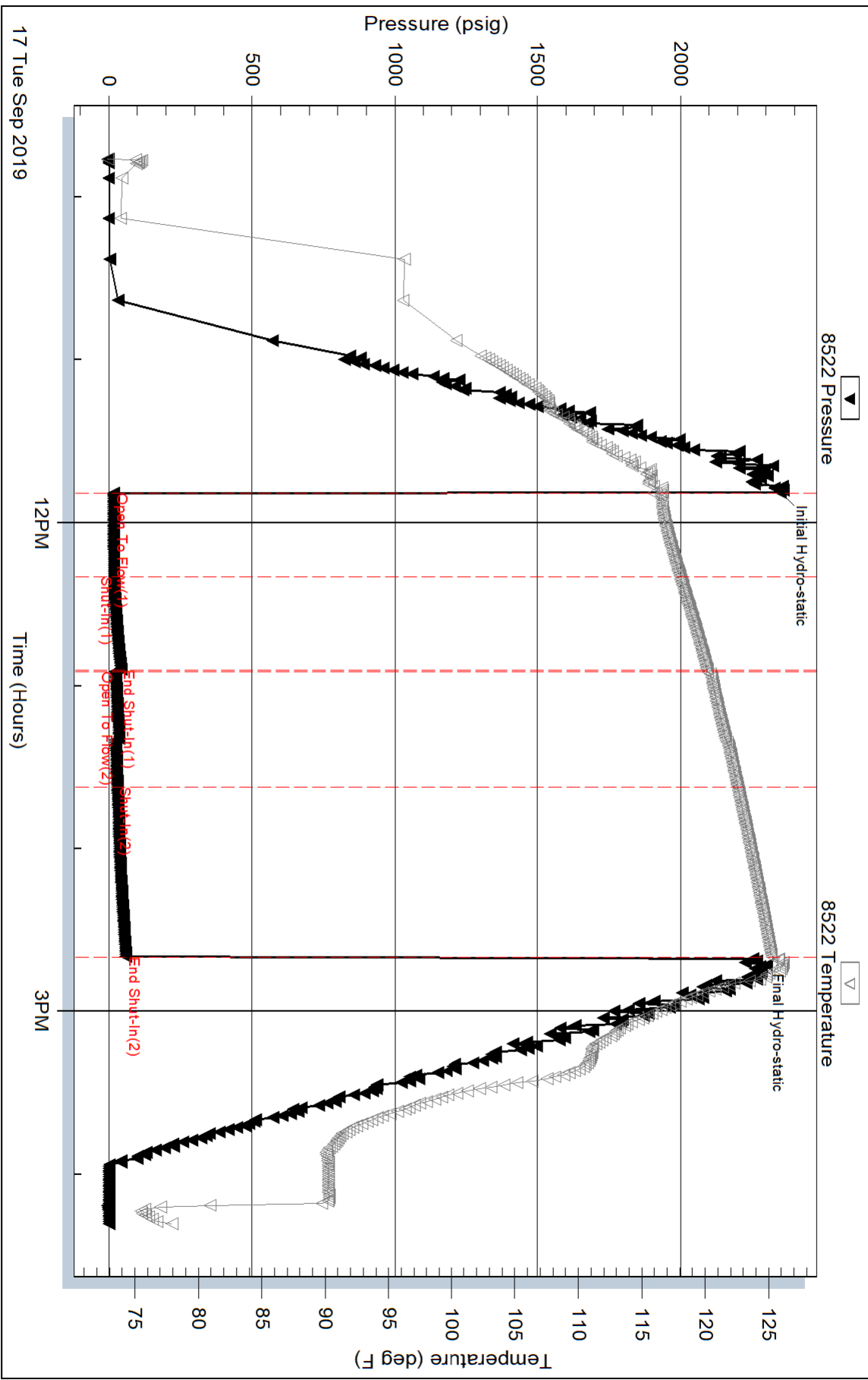
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

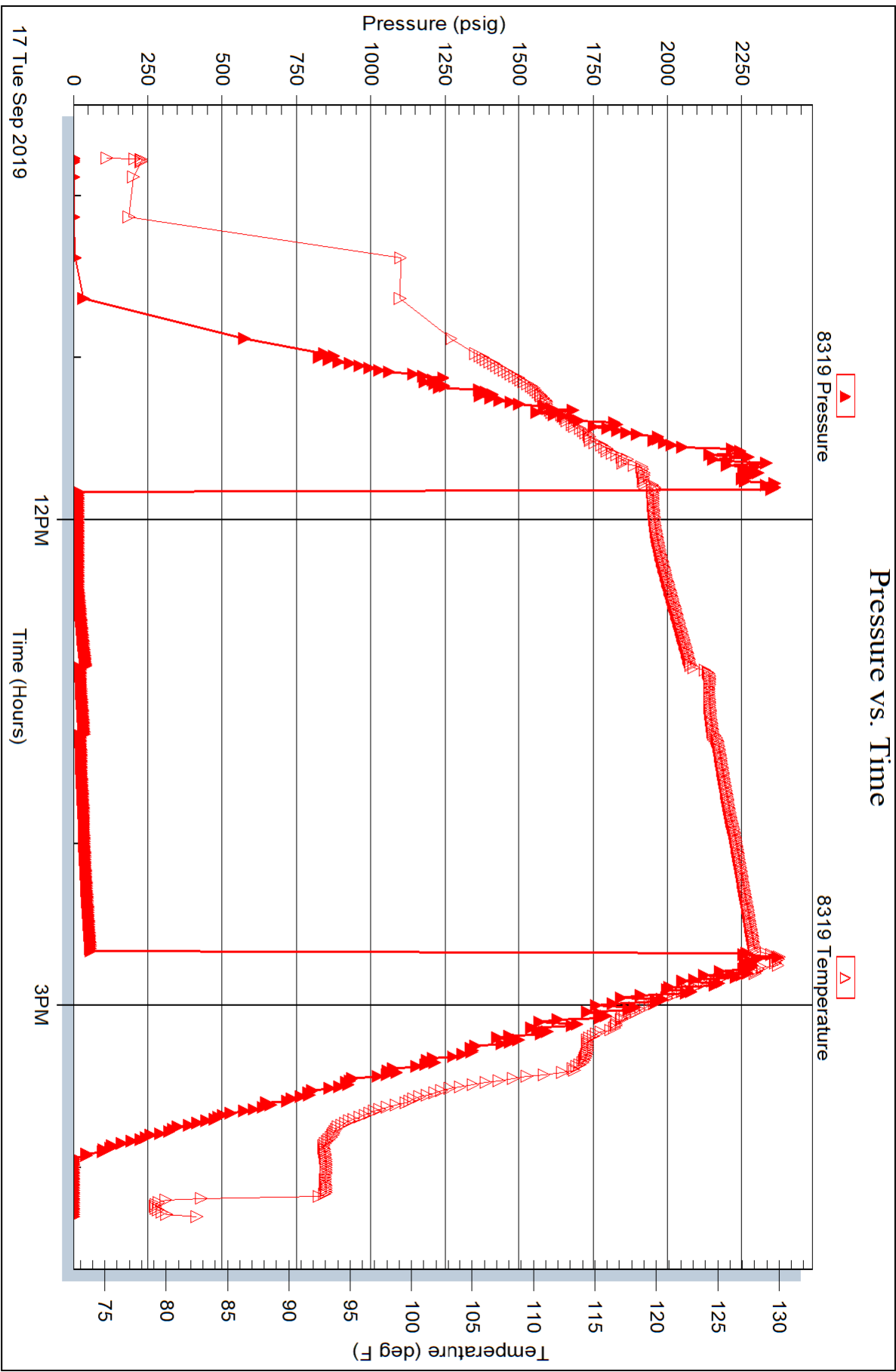


Serial #: 8319

Outside Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64811

Printed: 2019.09.17 @ 16:39:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64812

DST#: 4

ATTN: Tim Priest

Test Start: 2019.09.18 @ 06:14:00

GENERAL INFORMATION:

Formation: **Cherokee- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:45

Time Test Ended: 12:00:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4742.00 ft (KB) To 4790.00 ft (KB) (TVD)**

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4790.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press@RunDepth: 18.68 psig @ 4743.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.18 End Date: 2019.09.18

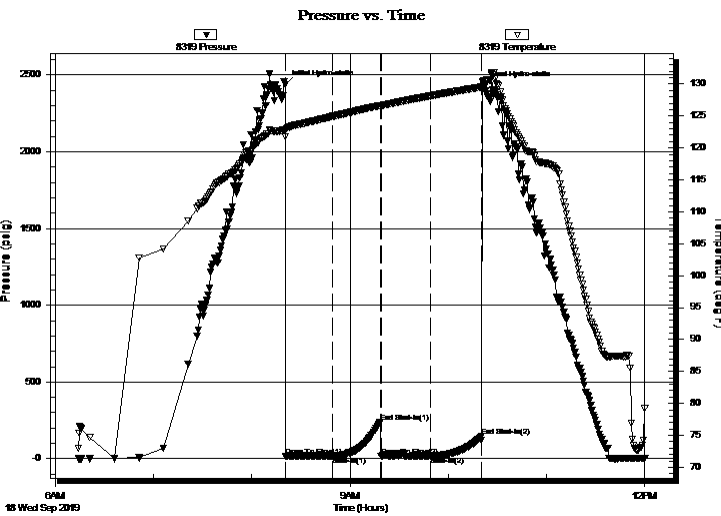
Last Calib.: 2019.09.18

Start Time: 06:14:05 End Time: 12:00:44

Time On Btm: 2019.09.18 @ 08:20:30

Time Off Btm: 2019.09.18 @ 10:21:45

TEST COMMENT: 30- IF: 3/4" blow .
30- IS: No return.
30- FF: Surface blow , died in 10 min.
30- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2435.77	122.82	Initial Hydro-static
1	17.83	121.71	Open To Flow (1)
29	19.23	124.90	Shut-In(1)
58	238.06	126.66	End Shut-In(1)
59	16.93	126.62	Open To Flow (2)
89	18.68	128.14	Shut-In(2)
120	144.48	129.52	End Shut-In(2)
122	2427.12	130.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud 100m (oil spots)	0.04

Gas Rates

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

* Recovery from multiple tests



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Gaskill 1-36

Job Ticket: 64812

DST#: 4

ATTN: Tim Priest

Test Start: 2019.09.18 @ 06:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud 100m (oil spots)	0.039

Total Length: 8.00 ft Total Volume: 0.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

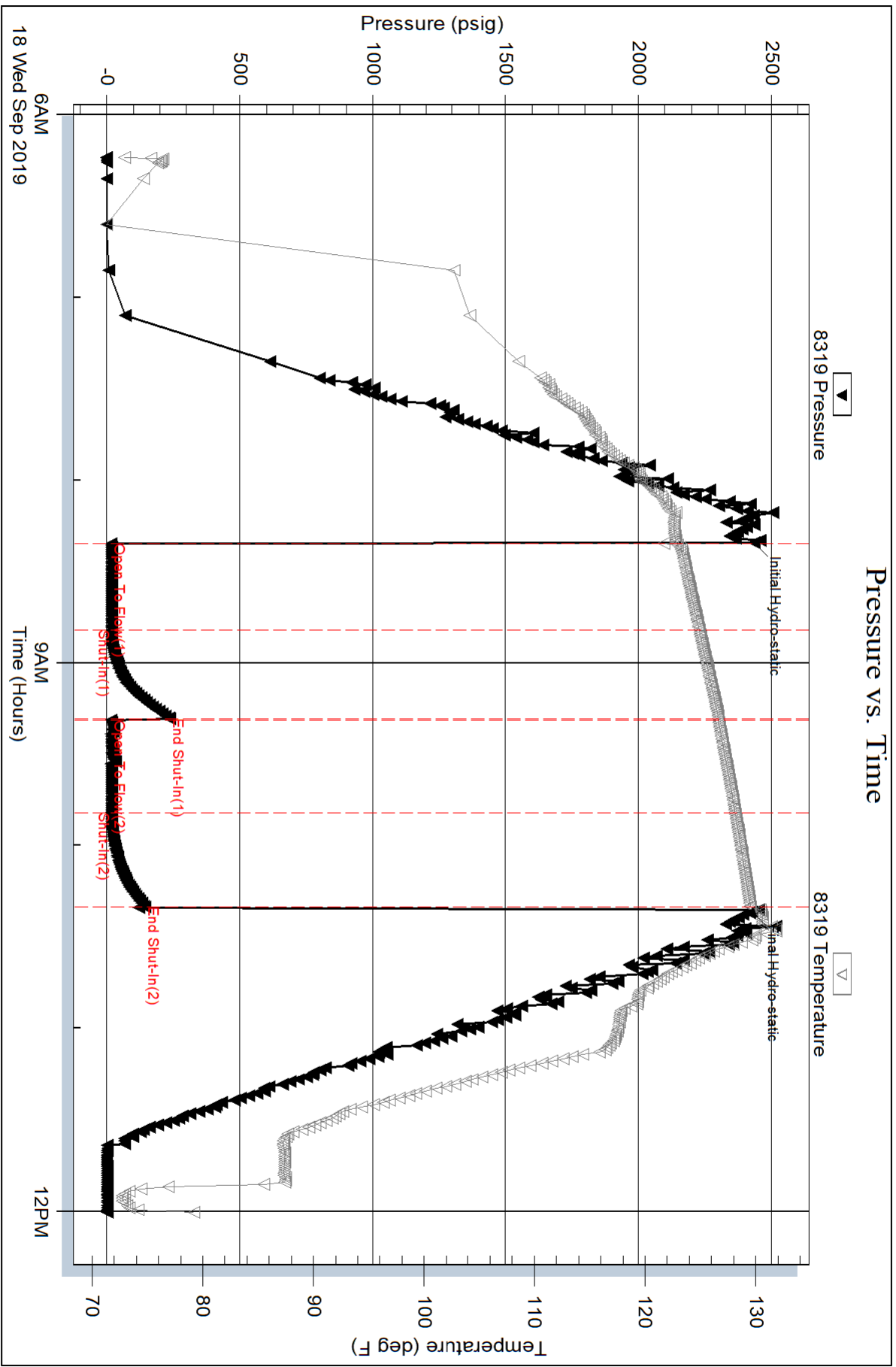
Recovery Comments:

Serial #: 8319

Outside Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 4



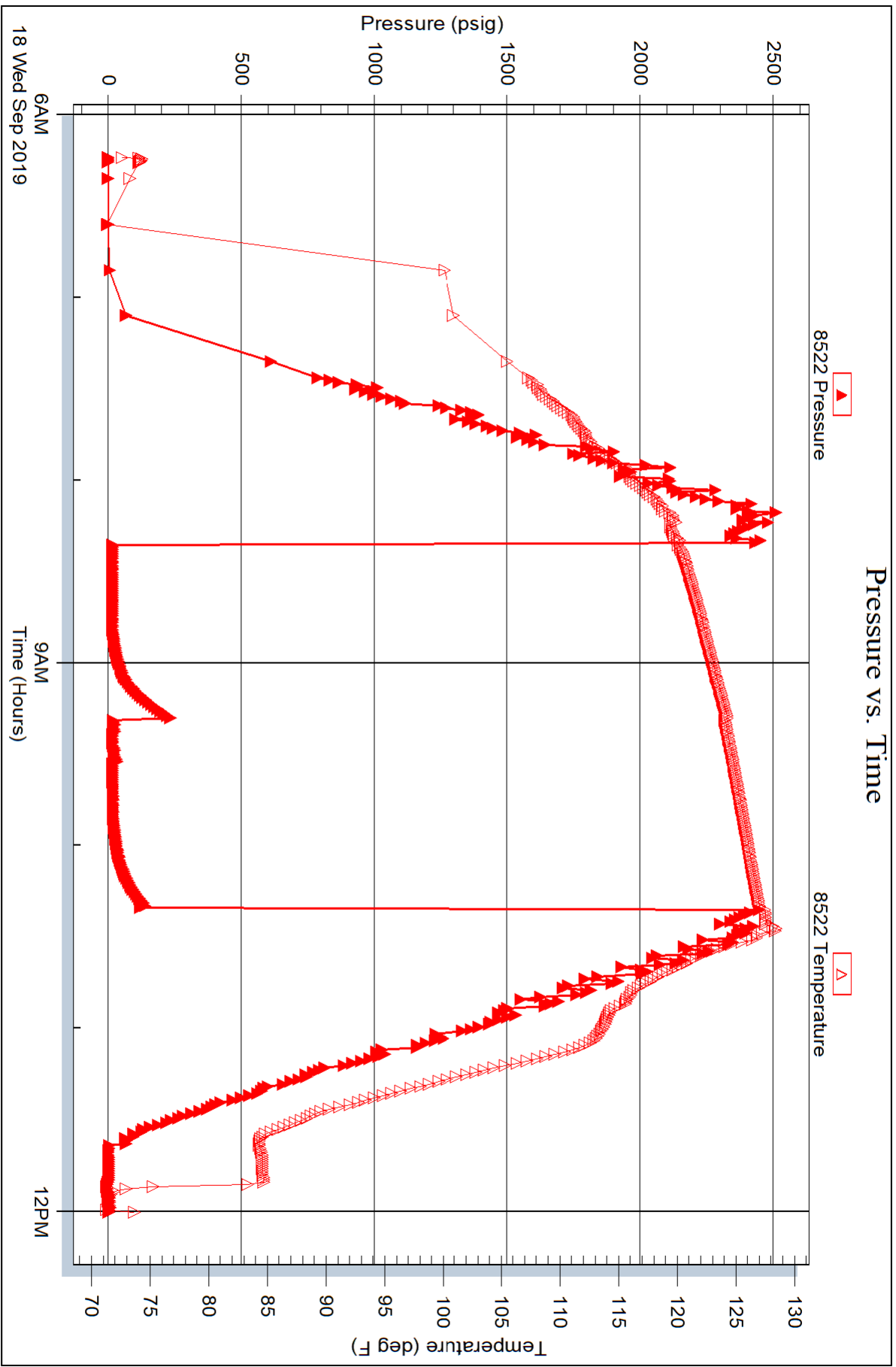
Serial #: 8522

Inside

Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64812

Printed: 2019.09.18 @ 13:22:17