



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Youngstown Operating
 14612 Hertz Quail Springs Parkway
 Oklahoma City, Ok 73134
 ATTN:

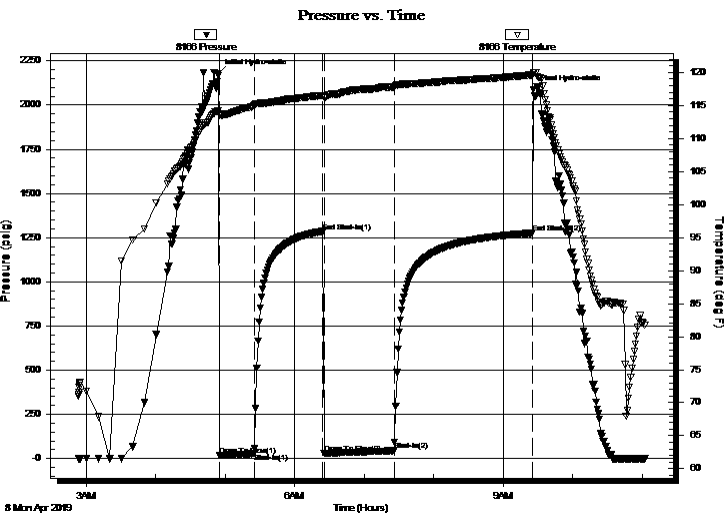
10-11-34 Logan, Ks
Wassemiller 1-10
 Job Ticket: 65169 **DST#: 1**
 Test Start: 2019.04.08 @ 02:53:24

GENERAL INFORMATION:

Formation: **Lansing E**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:55:24
 Tester: Brandon Turley
 Time Test Ended: 11:02:54
 Unit No: 79
 Interval: **4310.00 ft (KB) To 4361.00 ft (KB) (TVD)**
 Reference Elevations: 3179.00 ft (KB)
 Total Depth: 4361.00 ft (KB) (TVD)
 3174.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 44.43 psig @ 4315.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.08 End Date: 2019.04.08 Last Calib.: 2019.04.08
 Start Time: 02:53:29 End Time: 11:02:53 Time On Btm: 2019.04.08 @ 04:53:54
 Time Off Btm: 2019.04.08 @ 09:26:24

TEST COMMENT: IF: 1/2 blow built to 2.
 IS: No return.
 FF: Surface blow built to 3/4.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.18	114.23	Initial Hydro-static
2	17.07	113.66	Open To Flow (1)
31	28.06	115.00	Shut-In(1)
91	1285.22	116.51	End Shut-In(1)
92	29.04	116.22	Open To Flow (2)
152	44.43	117.77	Shut-In(2)
272	1276.00	119.61	End Shut-In(2)
273	2086.58	119.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 2%o 98%m	0.30
2.00	ocm 10%o 90%m	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Youngstown Operating

10-11-34 Logan, Ks

14612 Hertz Quail Springs Parkway
Oklahoma City, Ok 73134

Wassemiller 1-10

Job Ticket: 65169

DST#: 1

ATTN:

Test Start: 2019.04.08 @ 02:53:24

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	ocm 2%o 98%m	0.295
2.00	ocm 10%o 90%m	0.010

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

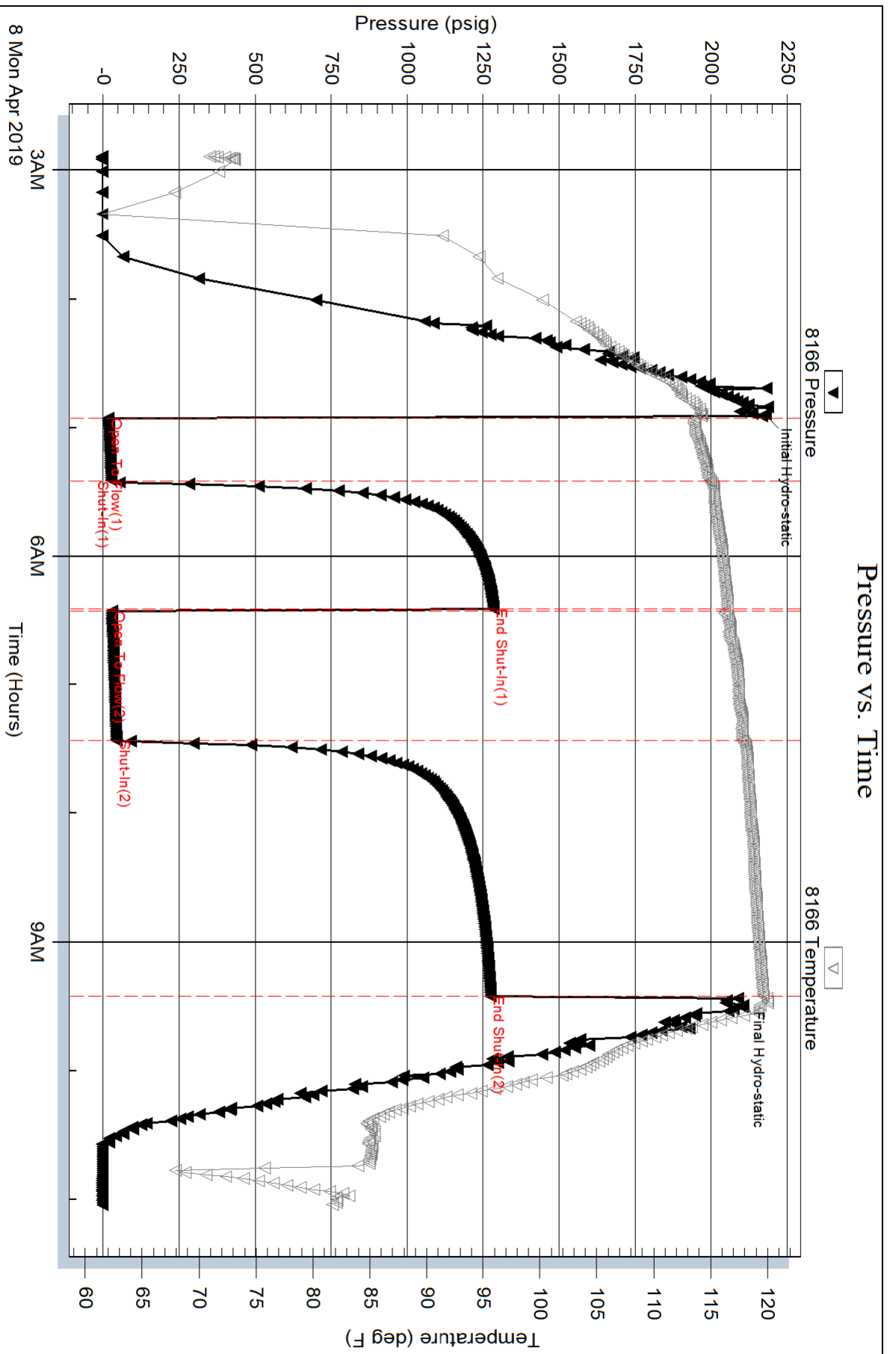
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6651

Inside

Youngstown Operating

Wassertiller 1-10

DST Test Number: 1

