



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22d St n 700
Wichita, Ks 67278
ATTN: John Goldsmith

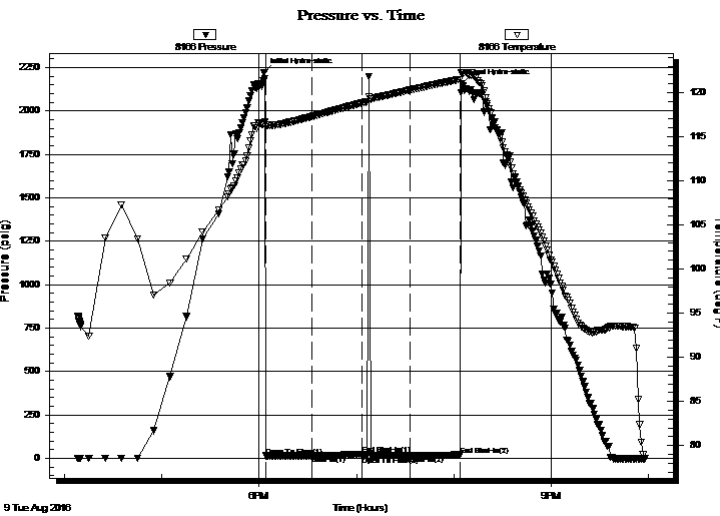
32-19s-30w Lane, Ks
Anderson 32B #1
Job Ticket: 65500 **DST#: 3**
Test Start: 2016.08.09 @ 16:08:06

GENERAL INFORMATION:

Formation: **Altamont C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:04:06
Time Test Ended: 21:57:36
Interval: **4442.00 ft (KB) To 4466.00 ft (KB) (TVD)**
Total Depth: 4466.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2934.00 ft (KB)
2929.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
Press@RunDepth: 16.42 psig @ 4443.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.09 End Date: 2016.08.09 Last Calib.: 2016.08.09
Start Time: 16:08:11 End Time: 21:57:35 Time On Btm: 2016.08.09 @ 18:03:06
Time Off Btm: 2016.08.09 @ 20:05:06

TEST COMMENT: IF: Surface blow died in 6 min.
IS: No return.
FF: No blow. Flushed the tool no blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.68	116.61	Initial Hydro-static
1	15.20	116.16	Open To Flow (1)
30	15.59	117.28	Shut-In(1)
60	22.75	118.81	End Shut-In(1)
61	14.76	118.82	Open To Flow (2)
90	16.42	120.29	Shut-In(2)
121	20.70	121.49	End Shut-In(2)
122	2158.85	122.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65500

DST#: 3

ATTN: John Goldsmith

Test Start: 2016.08.09 @ 16:08:06

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

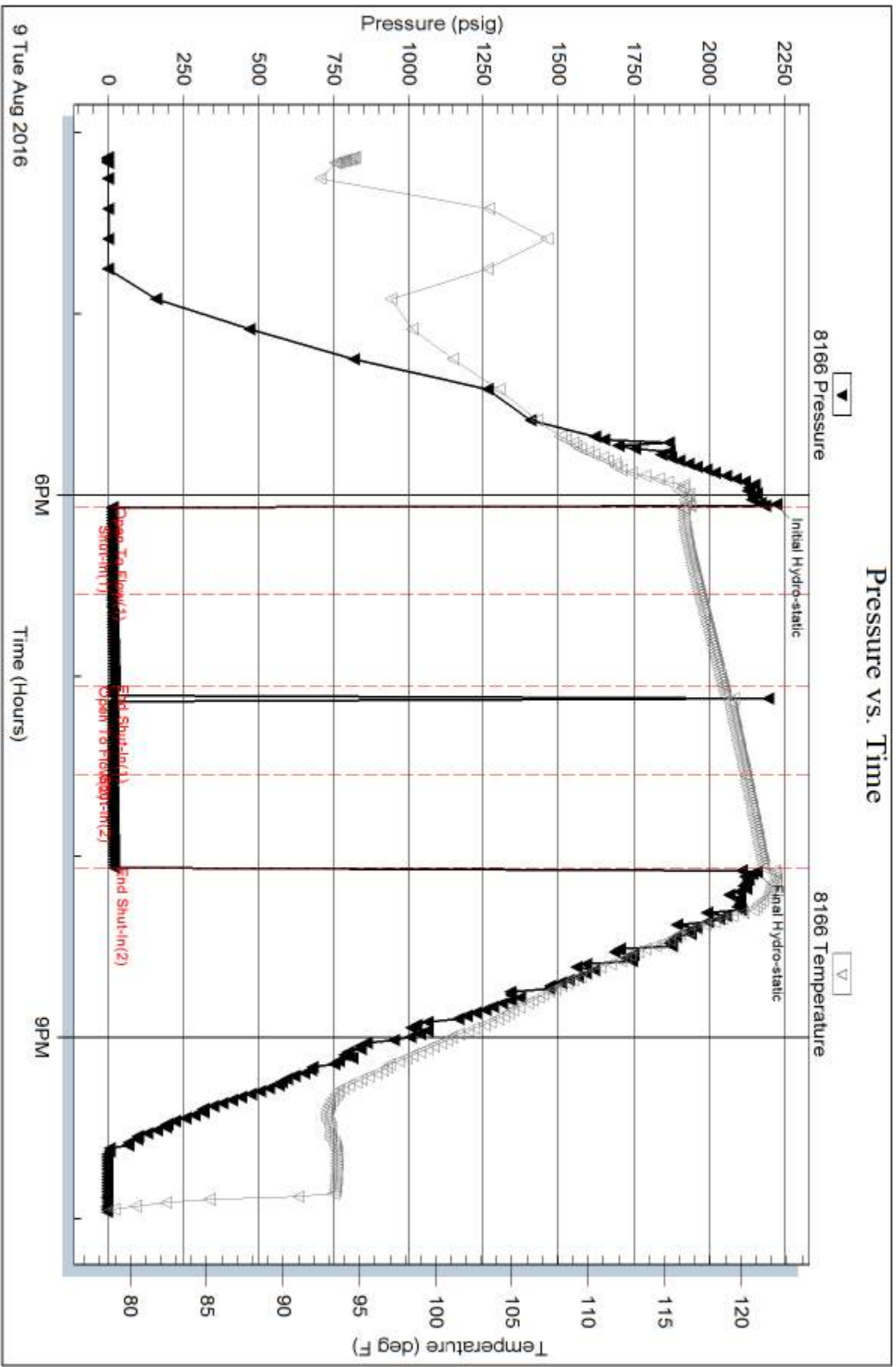
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



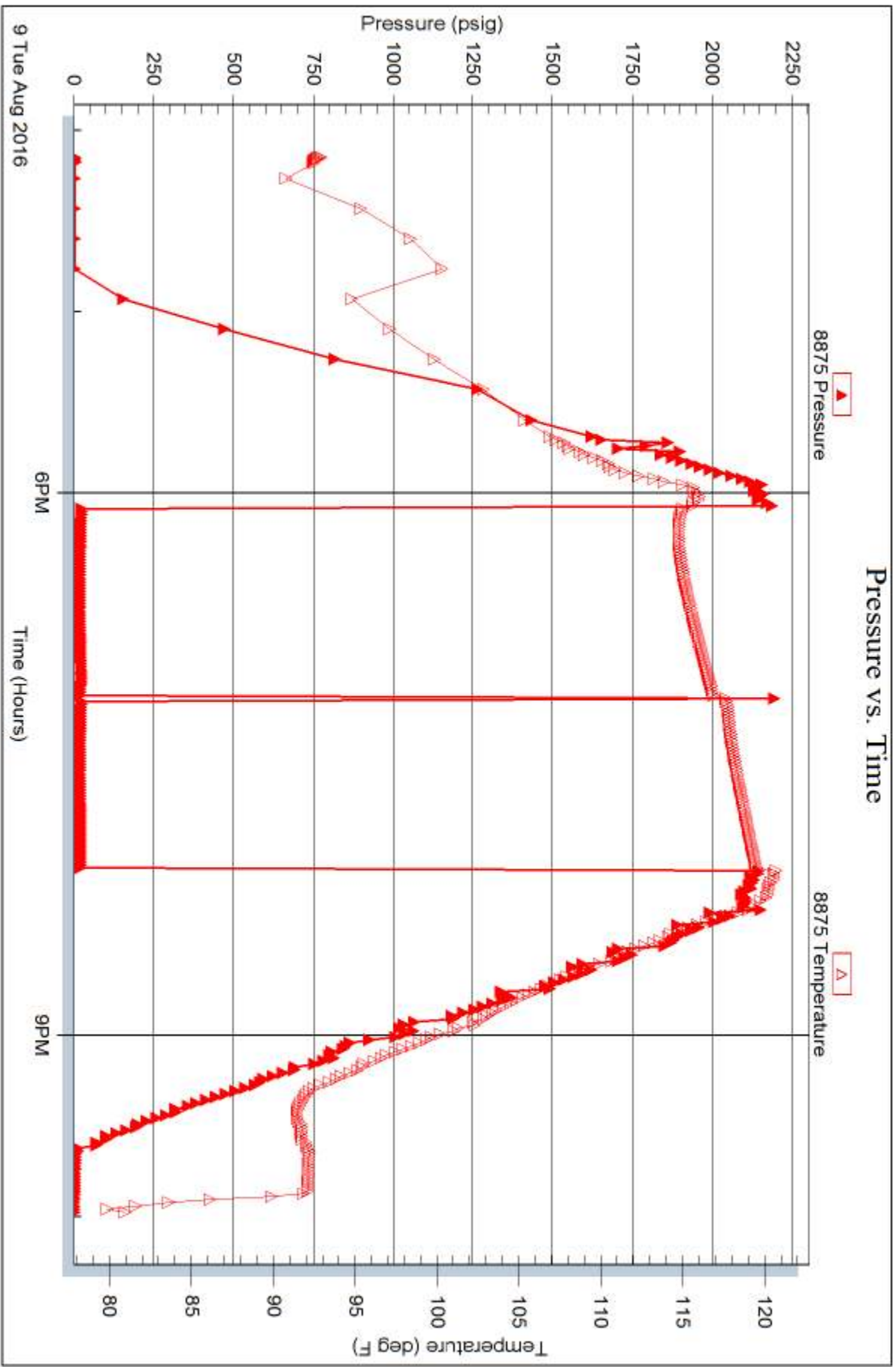
Serial #: 8875

Inside

Richie Exploration Inc

Anderson 32B #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65500

Printed: 2016.08.09 @ 22:19:06