



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co, Inc

5 10s 26w Sheridan, Ks

301 S Yale Ave.
Tulsa, Ok 74135

Riedel #1-5

Job Ticket: 57374

DST#: 1

ATTN: Richard Bell

Test Start: 2016.10.23 @ 19:07:00

GENERAL INFORMATION:

Formation: **LKC - A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:15

Time Test Ended: 03:12:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 3853.00 ft (KB) To 3877.00 ft (KB) (TVD)

Reference Elevations: 2653.00 ft (KB)

Total Depth: 3977.00 ft (KB) (TVD)

2643.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8845 Outside

Press@RunDepth: 35.57 psig @ 3854.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.23

End Date:

2016.10.24

Last Calib.:

2016.10.24

Start Time: 19:07:05

End Time:

03:12:14

Time On Btm:

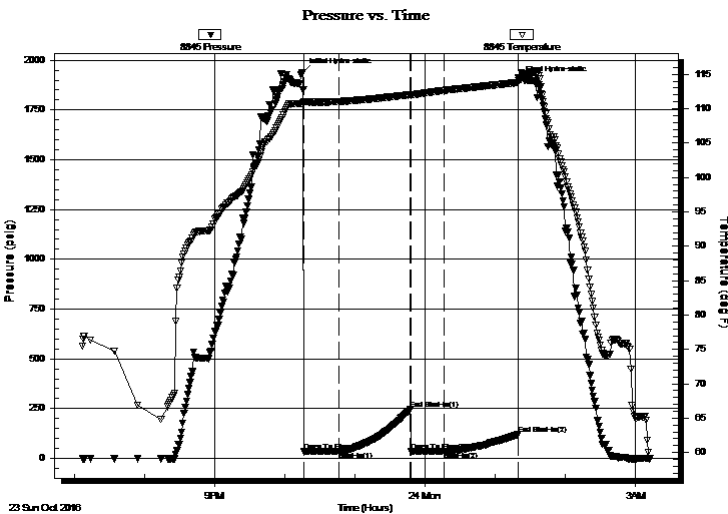
2016.10.23 @ 22:15:30

Time Off Btm:

2016.10.24 @ 01:20:00

TEST COMMENT: IF: 1/2" blow, receded to surface.
IS: No return.
FF: Surface blow, died in 10 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.56	110.88	Initial Hydro-static
1	34.37	110.85	Open To Flow (1)
31	35.16	111.04	Shut-In(1)
92	245.74	112.03	End Shut-In(1)
93	35.08	111.99	Open To Flow (2)
121	35.57	112.65	Shut-In(2)
184	120.70	113.81	End Shut-In(2)
185	1899.43	114.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m	0.56

Gas Rates

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



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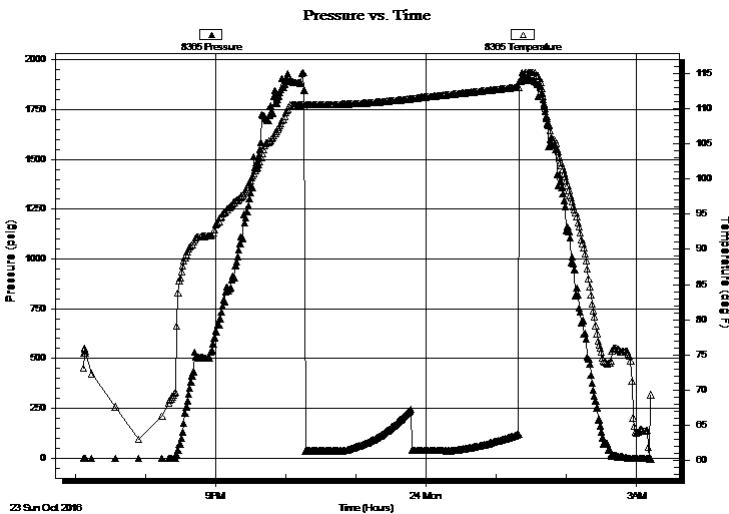
5 10s 26w Sheridan, Ks
Riedel #1-5
 Job Ticket: 57374 **DST#: 1**
 Test Start: 2016.10.23 @ 19:07:00

GENERAL INFORMATION:

Formation: **LKC - A**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:16:15 Tester: Bradley Walter
 Time Test Ended: 03:12:15 Unit No: 78
 Interval: **3853.00 ft (KB) To 3877.00 ft (KB) (TVD)** Reference Elevations: 2653.00 ft (KB)
 Total Depth: 3977.00 ft (KB) (TVD) 2643.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8365 Inside
 Press@RunDepth: psig @ 3854.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.10.23 End Date: 2016.10.24 Last Calib.: 2016.10.24
 Start Time: 19:07:05 End Time: 03:12:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow , receded to surface.
 IS: No return.
 FF: Surface blow . died in 10 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co, Inc

5 10s 26w Sheridan, Ks

301 S Yale Ave.
Tulsa, Ok 74135

Riedel #1-5

Job Ticket: 57374

DST#: 1

ATTN: Richard Bell

Test Start: 2016.10.23 @ 19:07:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100m	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

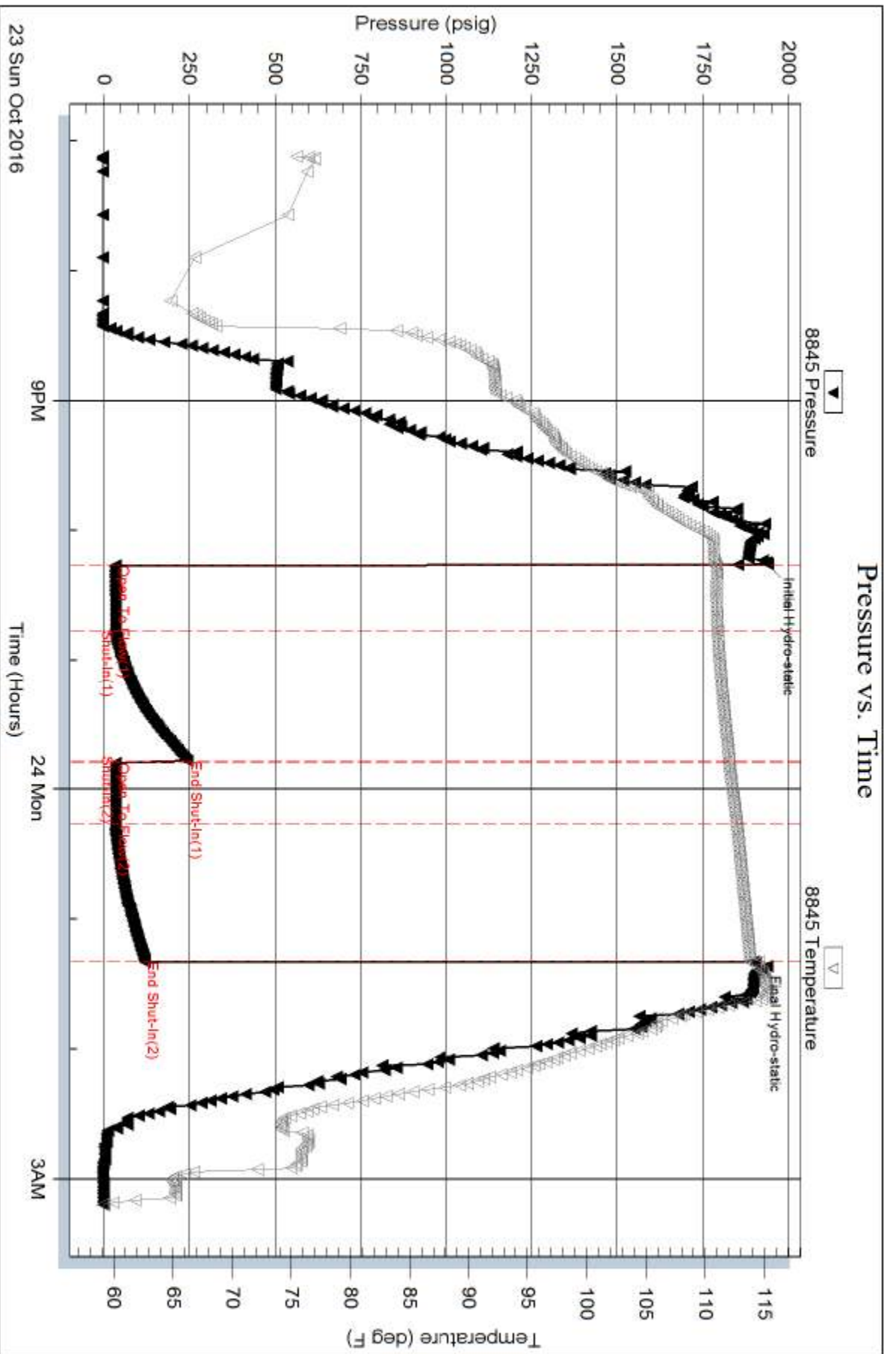
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



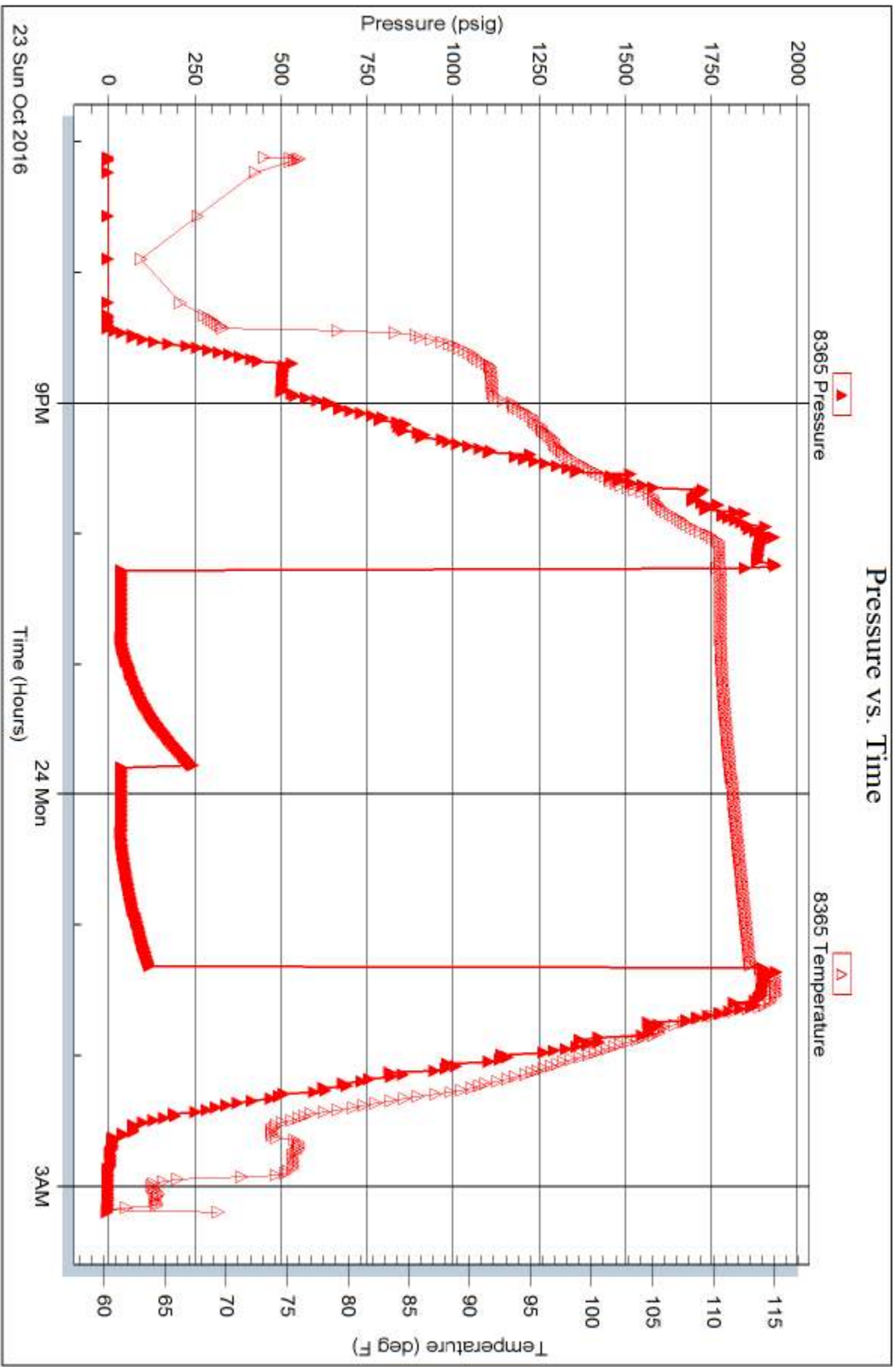
Serial #: 8365

Inside

Culbreath Oil & Gas Co, Inc

Riedel #1-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57374

Printed: 2016.10.24 @ 08:10:37