



**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: 57375

DST#: 2

ATTN: Richard Bell

Test Start: 2016.10.24 @ 10:58:00

GENERAL INFORMATION:

Formation: **LKC - B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:56:00

Time Test Ended: 20:47:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3878.00 ft (KB) To 3894.00 ft (KB) (TVD)

Reference Elevations: 2653.00 ft (KB)

Total Depth: 3894.00 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: 524.39 psig @ 3879.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.24

End Date:

2016.10.24

Last Calib.:

2016.10.24

Start Time: 09:58:05

End Time:

19:47:45

Time On Btm:

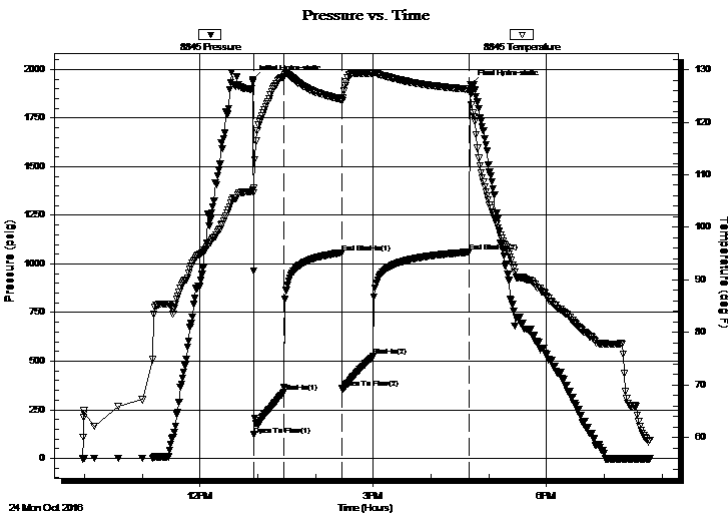
2016.10.24 @ 12:55:00

Time Off Btm:

2016.10.24 @ 16:41:00

TEST COMMENT: IF: BOB @ 1 minute.
IS: BOB @ 12 min.
FF: BOB @ open.
FS: BOB @ 15 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.77	107.06	Initial Hydro-static
1	121.20	107.42	Open To Flow (1)
32	339.59	128.61	Shut-In(1)
92	1058.40	124.35	End Shut-In(1)
93	359.94	124.16	Open To Flow (2)
125	524.39	129.30	Shut-In(2)
225	1060.60	126.28	End Shut-In(2)
226	1920.17	125.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 20g 30o 50m	0.84
1330.00	go 30g 70o	18.66
0.00	2270' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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 Total Depth: 3894.00 ft (KB) (TVD) 2643.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

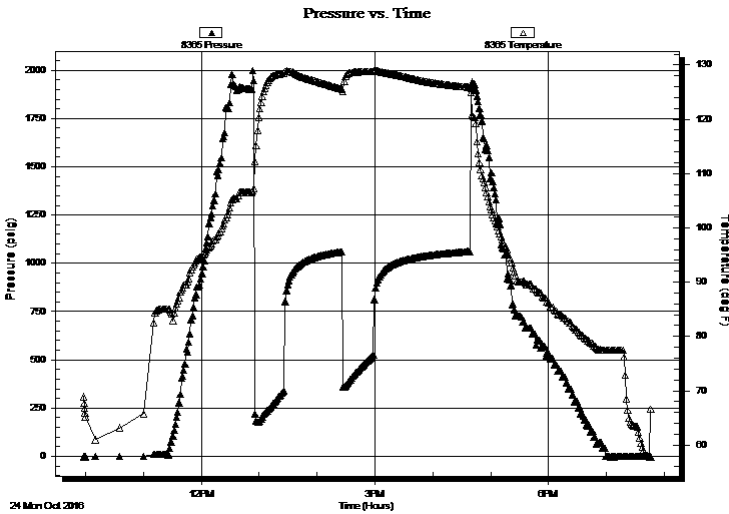
Serial #: 8365

Inside

Press@RunDepth: psig @ 3879.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.10.24 End Date: 2016.10.24 Last Calib.: 2016.10.24
 Start Time: 09:58:05 End Time: 19:46:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 1 minute.
 IS: BOB @ 12 min.
 FF: BOB @ open.
 FS: BOB @ 15 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 20g 30o 50m	0.84
1330.00	go 30g 70o	18.66
0.00	2270' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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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: 57375

DST#: 2

ATTN: Richard Bell

Test Start: 2016.10.24 @ 10:58:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 36 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gocm 20g 30o 50m	0.842
1330.00	go 30g 70o	18.656
0.00	2270' GIP	0.000

Total Length: 1390.00 ft Total Volume: 19.498 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

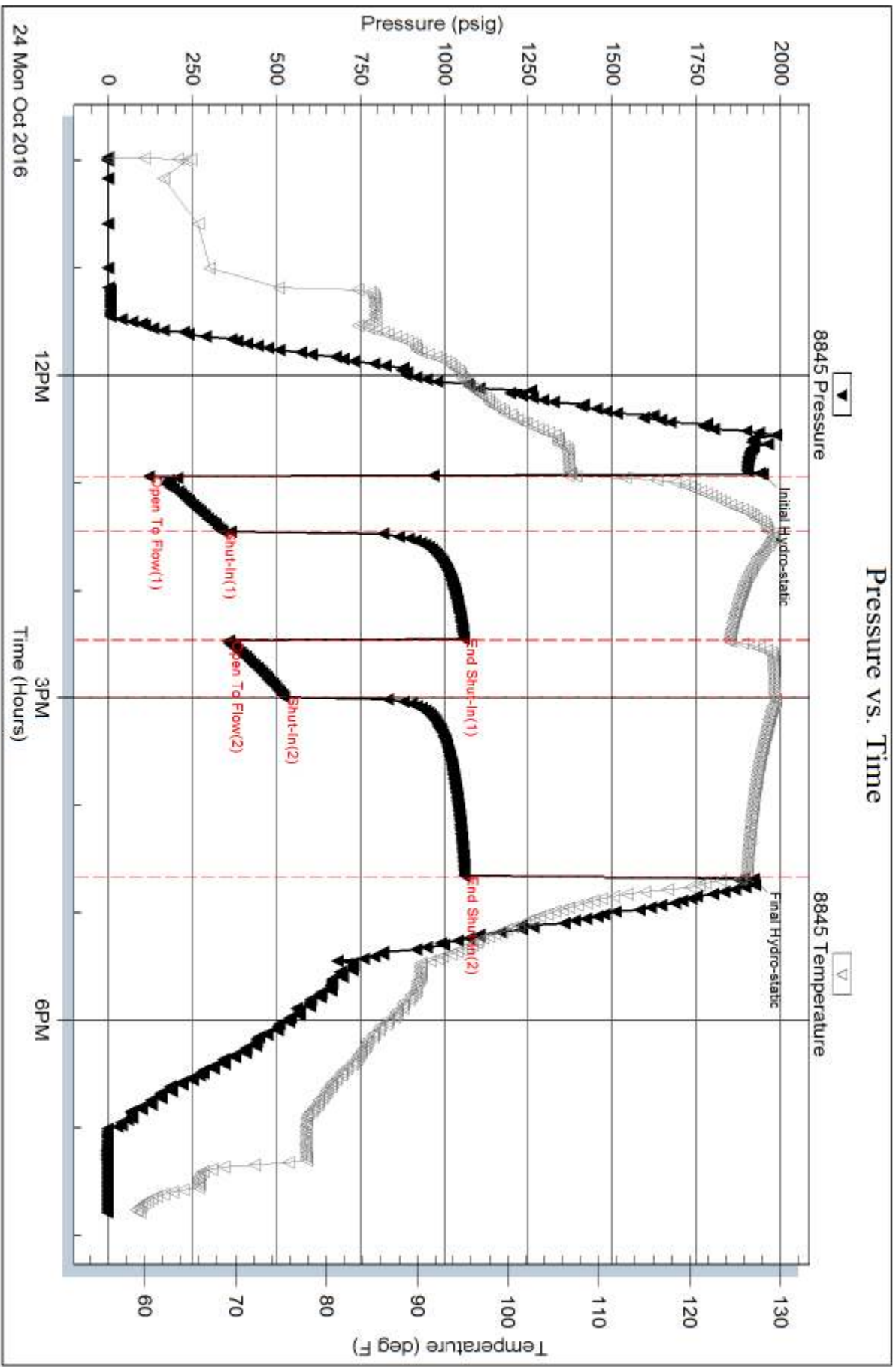
Recovery Comments:

Serial #: 8845

Outside Culbreath Oil & Gas Co, Inc

Riedel #1-5

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57375

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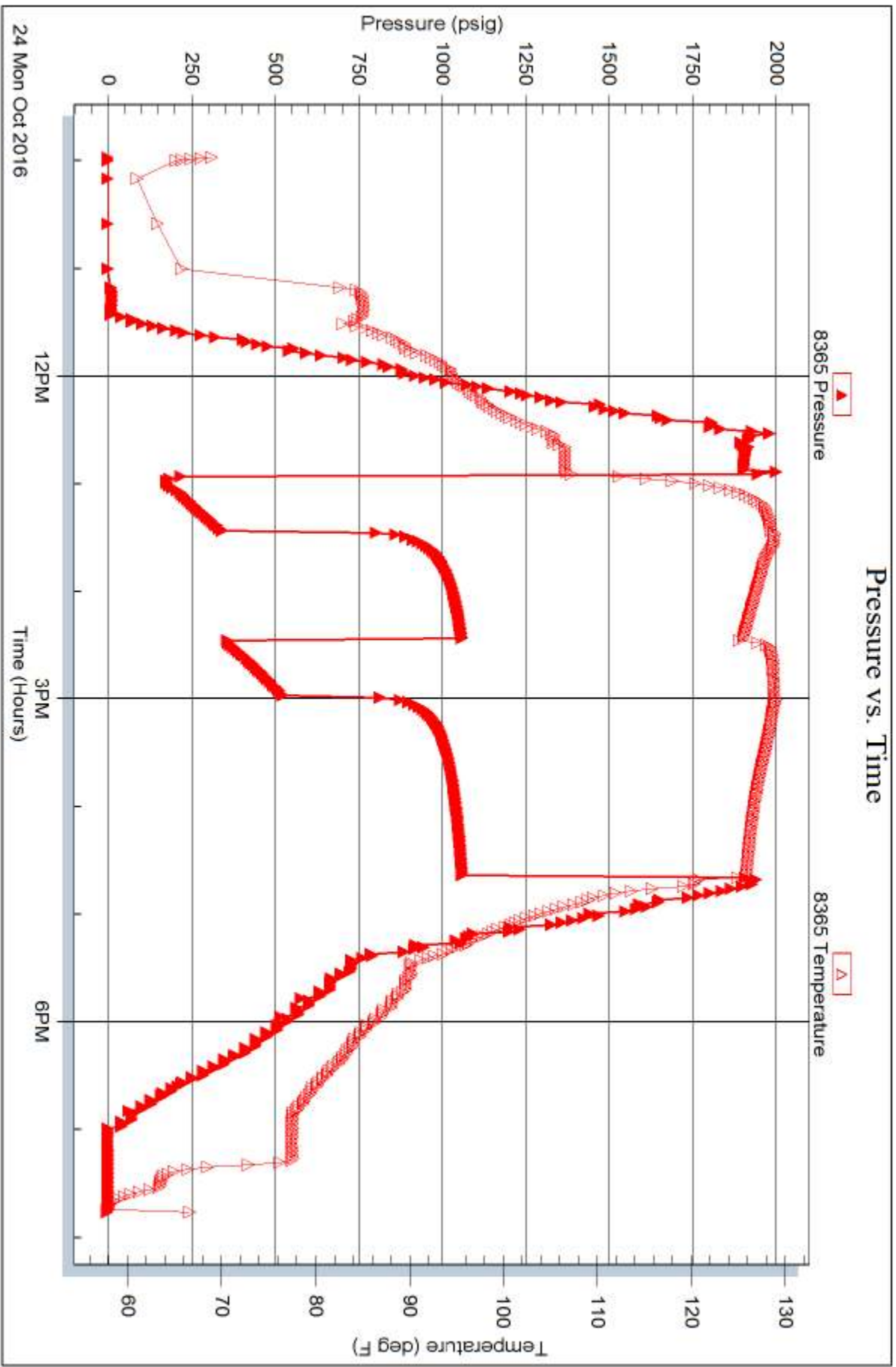
Serial #: 8365

Inside

Culbreath Oil & Gas Co, Inc

Riedel #1-5

DST Test Number: 2



Trilobite Testing, Inc

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