



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Culbreath OIL & Gas Co, Inc.

**22 16s 35w Wichita, Ks**

3501 S Yale Ave  
Tulsa, Ok 74135

**Hagen-Jantz 1-22**

Job Ticket: 64358

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2019.06.22 @ 13:44:00

## GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:31:45

Time Test Ended: 21:46:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 4034.00 ft (KB) To 4038.00 ft (KB) (TVD)**

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4038.00 ft (KB) (TVD)

3195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 94.52 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.22

End Date: 2019.06.22

Last Calib.: 2019.06.22

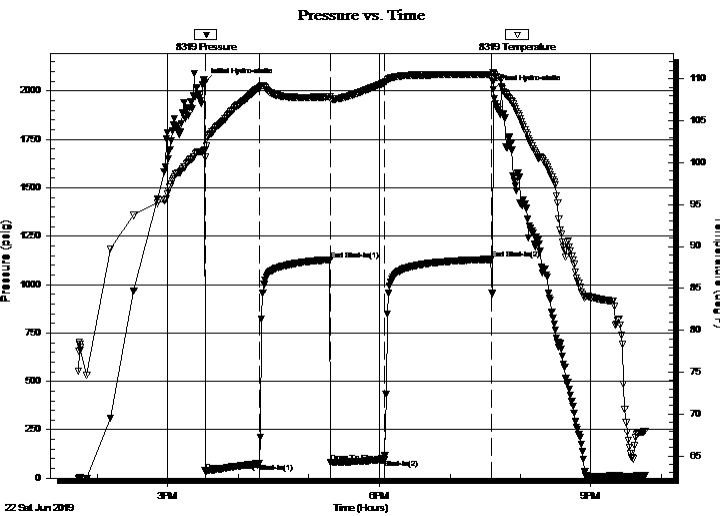
Start Time: 13:44:05

End Time: 21:46:14

Time On Btm: 2019.06.22 @ 15:31:30

Time Off Btm: 2019.06.22 @ 19:37:00

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



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2042.45         | 101.51       | Initial Hydro-static |
| 1           | 37.82           | 100.63       | Open To Flow (1)     |
| 47          | 76.12           | 108.91       | Shut-In(1)           |
| 107         | 1128.64         | 107.84       | End Shut-In(1)       |
| 108         | 81.46           | 107.58       | Open To Flow (2)     |
| 153         | 94.52           | 109.50       | Shut-In(2)           |
| 244         | 1130.89         | 110.50       | End Shut-In(2)       |
| 246         | 2007.70         | 110.65       | Final Hydro-static   |

## Recovery

| Length (ft) | Description             | Volume (bbl) |
|-------------|-------------------------|--------------|
| 130.00      | mcw 15m 85w w/oil spots | 0.74         |
| 0.00        | 4 inches of oil on top  | 0.00         |
|             |                         |              |
|             |                         |              |
|             |                         |              |

## Gas Rates

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





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**FLUID SUMMARY**

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**Hagen-Jantz 1-22**

Job Ticket: 64358

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2019.06.22 @ 13:44:00

## 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:

56000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description             | Volume<br>bbbl |
|--------------|-------------------------|----------------|
| 130.00       | mcw 15m 85w w/oil spots | 0.740          |
| 0.00         | 4 inches of oil on top  | 0.000          |

Total Length: 130.00 ft      Total Volume: 0.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

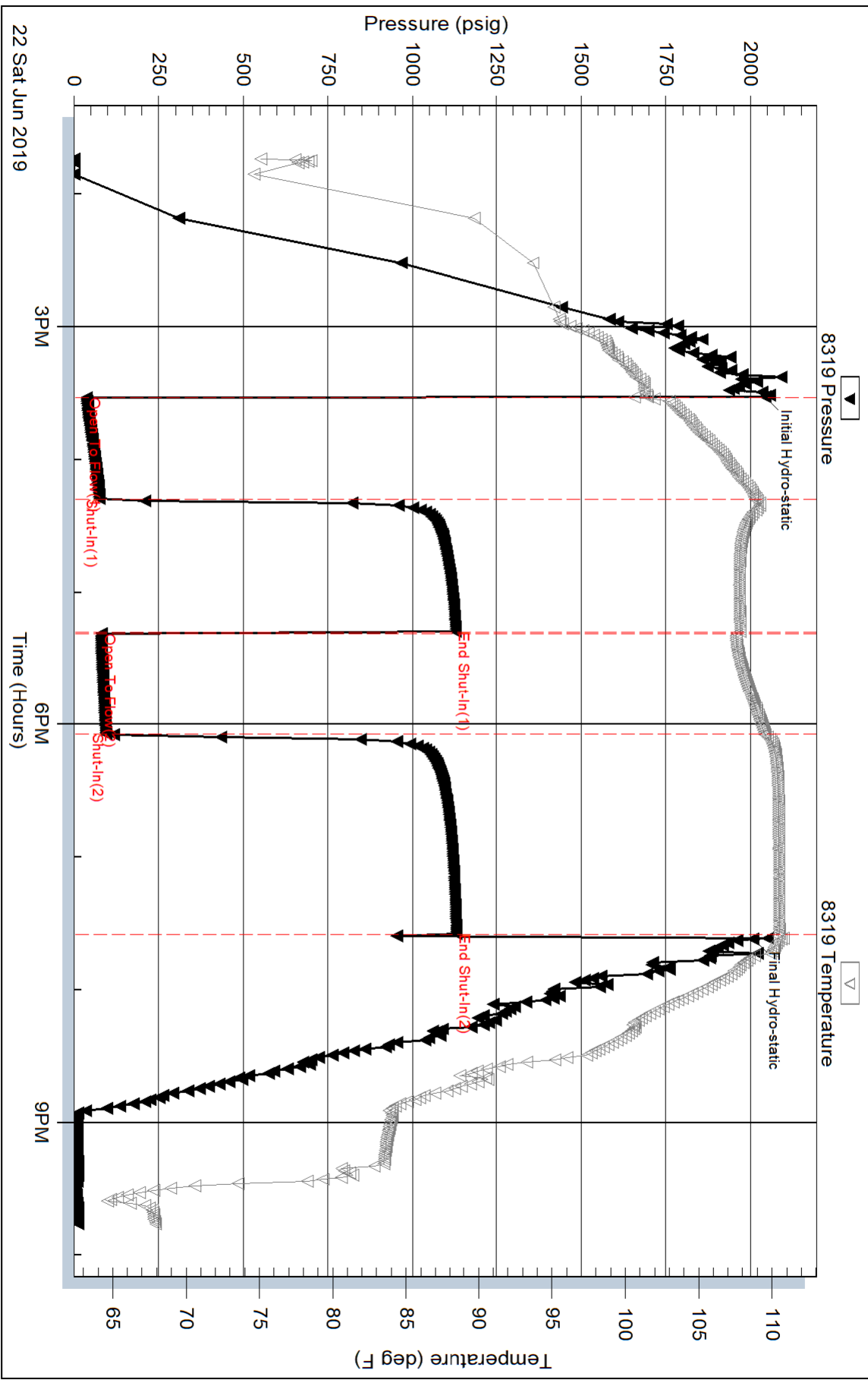
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .167 @ 64 F= 56,000ppm

### Pressure vs. Time



Serial #: 8522

Inside

Culbreath Oil & Gas Co., Inc.

Hagen-Jantz 1-22

DST Test Number: 1

