



**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: 64361

DST#: 4

ATTN: Larry Nicholson

Test Start: 2019.06.25 @ 15:15:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:29:15

Time Test Ended: 22:34:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4433.00 ft (KB) To 4465.00 ft (KB) (TVD)

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4465.00 ft (KB) (TVD)

3195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8522 Inside

Press@RunDepth: 35.06 psig @ 4434.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.25

End Date:

2019.06.25

Last Calib.:

2019.06.25

Start Time: 15:15:05

End Time:

22:34:44

Time On Btm:

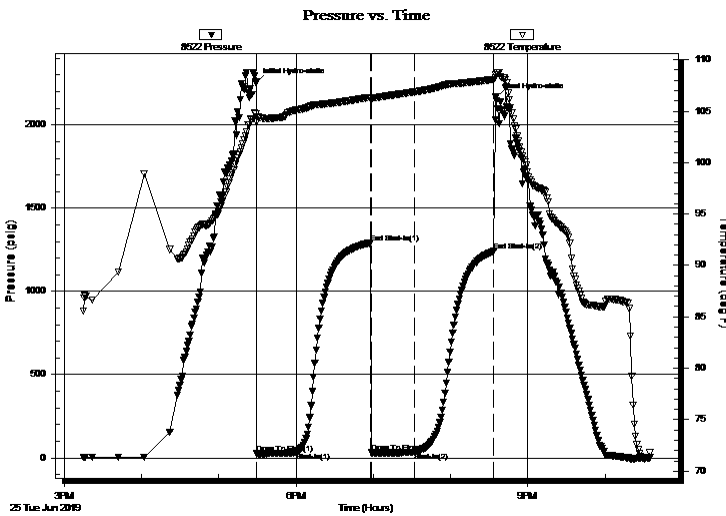
2019.06.25 @ 17:29:00

Time Off Btm:

2019.06.25 @ 20:35:15

TEST COMMENT: 30- IF: 1/2" blow .
60- IS: No return
30- FF: No blow .
60- FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.25	104.76	Initial Hydro-static
1	25.14	103.94	Open To Flow (1)
32	35.52	105.10	Shut-In(1)
89	1291.30	106.34	End Shut-In(1)
90	31.34	106.20	Open To Flow (2)
124	35.06	106.88	Shut-In(2)
185	1241.70	108.10	End Shut-In(2)
187	2166.91	108.50	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	ocm 20o 80m	0.02
15.00	oil 100o	0.07

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

* Recovery from multiple tests



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FLUID SUMMARY

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Hagen-Jantz 1-22

Job Ticket: 64361

DST#: 4

ATTN: Larry Nicholson

Test Start: 2019.06.25 @ 15:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 20o 80m	0.025
15.00	oil 100o	0.074

Total Length: 20.00 ft Total Volume: 0.099 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

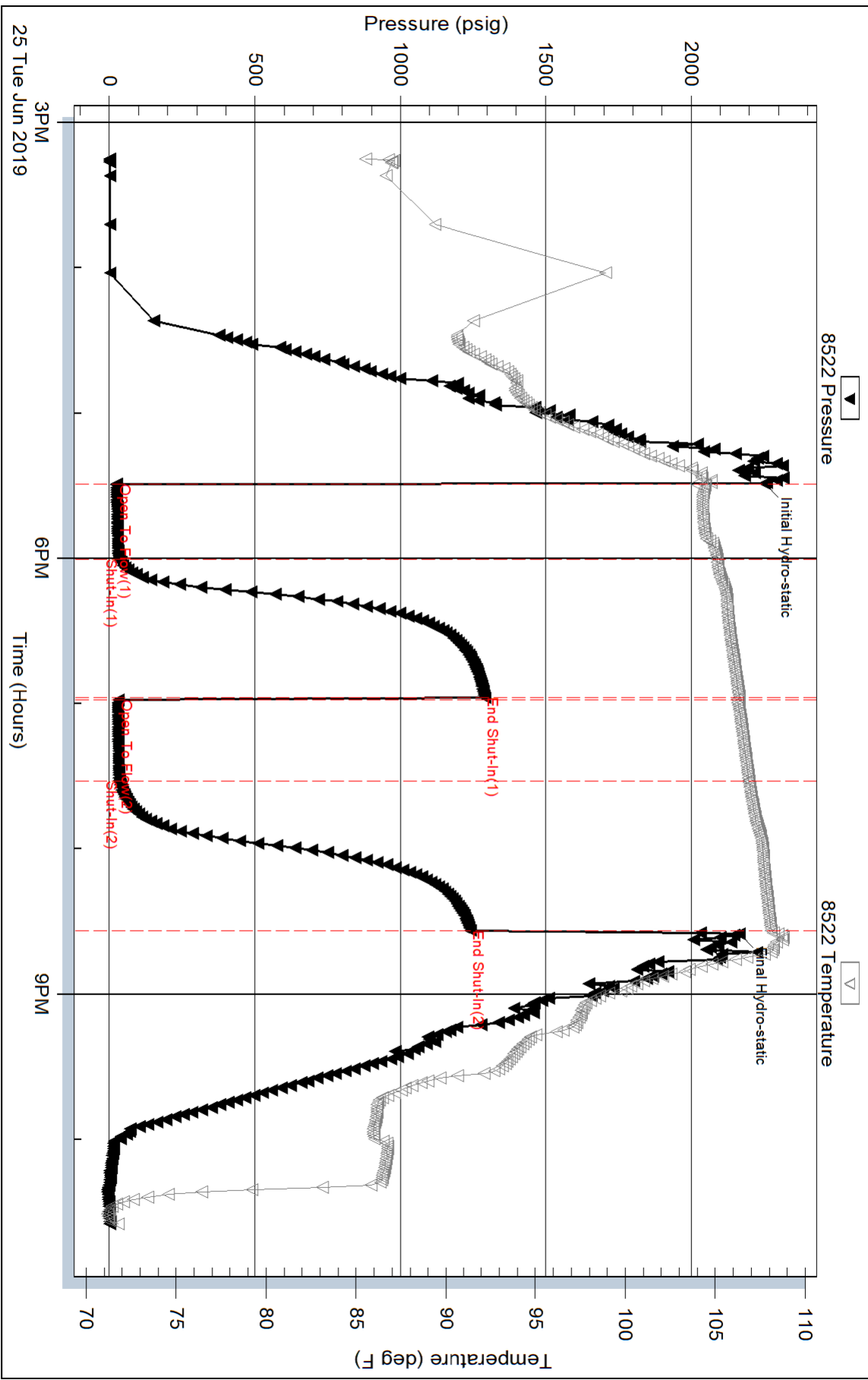
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8319

Outside Culbreath OIL & Gas Co., Inc.

Hagen-Jantz 1-22

DST Test Number: 4

