



**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: 64359

DST#: 2

ATTN: Larry Nicholson

Test Start: 2019.06.23 @ 05:19:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:55:15

Time Test Ended: 13:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4060.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4080.00 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: 816.99 psig @ 4061.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.23

End Date:

2019.06.23

Last Calib.:

2019.06.23

Start Time: 05:19:05

End Time:

13:11:29

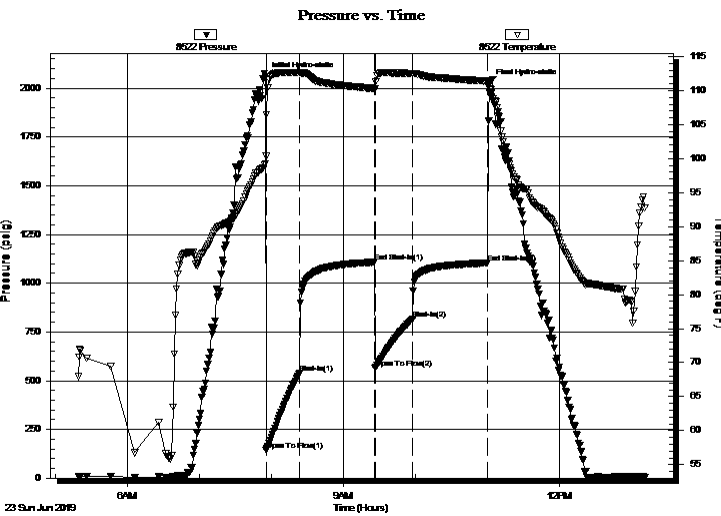
Time On Btm:

2019.06.23 @ 07:54:45

Time Off Btm:

2019.06.23 @ 11:01:00

TEST COMMENT: 30- IF: BOB @ 1.5 min. - 135" blow .
60- IS: No return.
30- FF: BOB @ 3 min. - 99" blow .
60- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.30	99.26	Initial Hydro-static
1	142.31	100.34	Open To Flow (1)
29	536.79	112.66	Shut-In(1)
91	1107.88	110.33	End Shut-In(1)
92	565.93	110.31	Open To Flow (2)
123	816.99	112.53	Shut-In(2)
185	1103.53	111.39	End Shut-In(2)
187	2021.32	111.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1720.00	mcw 5m 95w w/oil spots throughout	23.04

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

Culbreath OIL & Gas Co, Inc.

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Tulsa, Ok 74135

Hagen-Jantz 1-22

Job Ticket: 64359

DST#: 2

ATTN: Larry Nicholson

Test Start: 2019.06.23 @ 05:19:00

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:

58000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1720.00	mcw 5m 95w w/oil spots throughout	23.043

Total Length: 1720.00 ft Total Volume: 23.043 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .129 @ 72F= 58000ppm

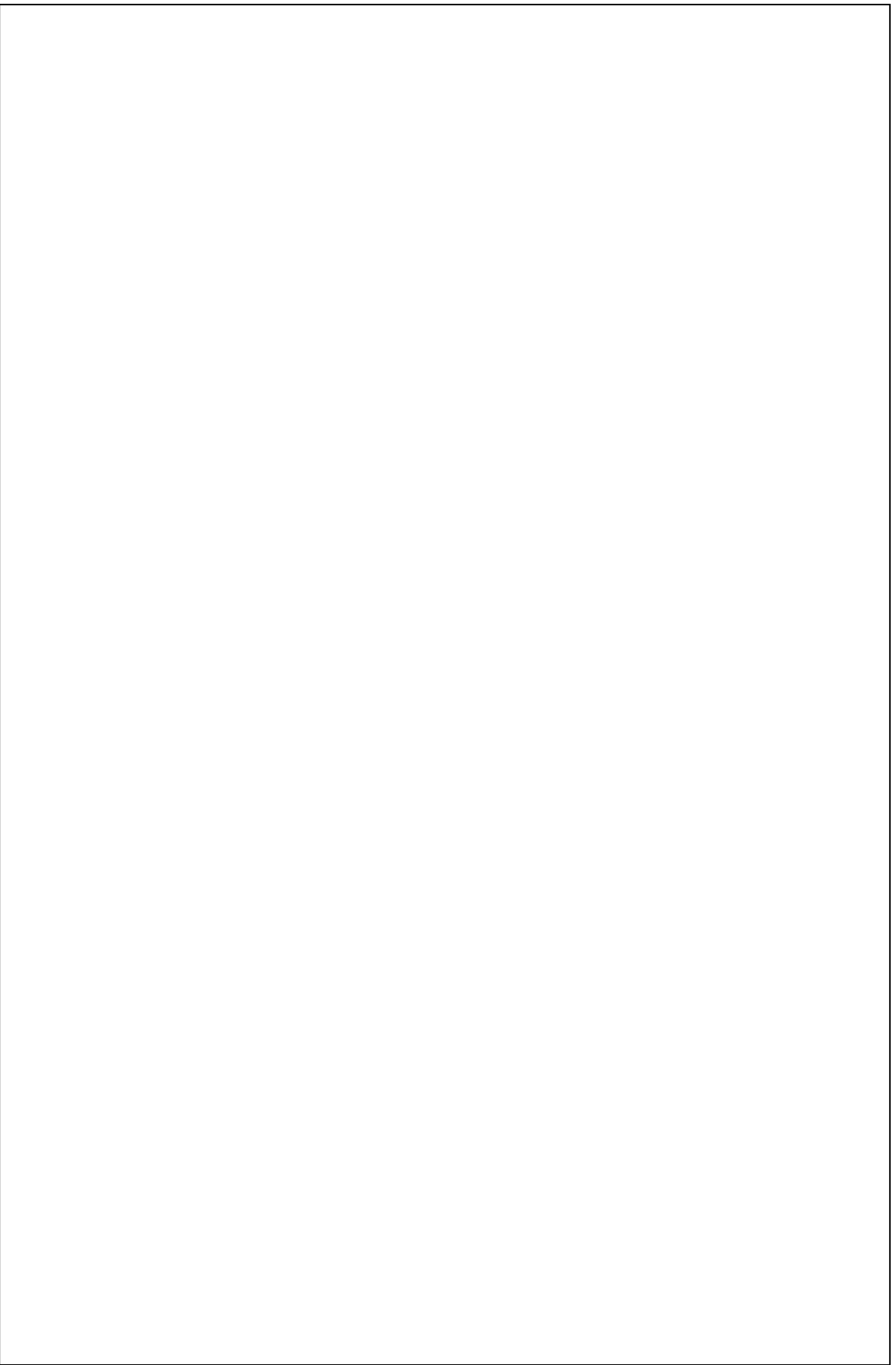
Serial #: 8522

Inside

Culbreath Oil & Gas Co., Inc.

Hagen-Jantz 1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64359

Printed: 2019.06.23 @ 13:59:38

Serial #: 8319

Outside Culbreath Oil & Gas Co., Inc.

Hagen-Jantz 1-22

DST Test Number: 2

