



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: 64360

DST#: 3

ATTN: Larry Nicholson

Test Start: 2019.06.24 @ 13:42:00

GENERAL INFORMATION:

Formation: **LKC I - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:29:00

Time Test Ended: 22:12:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4239.00 ft (KB) To 4318.00 ft (KB) (TVD)

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4318.00 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: 1016.14 psig @ 4240.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.24

End Date:

2019.06.24

Last Calib.:

2019.06.24

Start Time: 13:42:05

End Time:

22:12:44

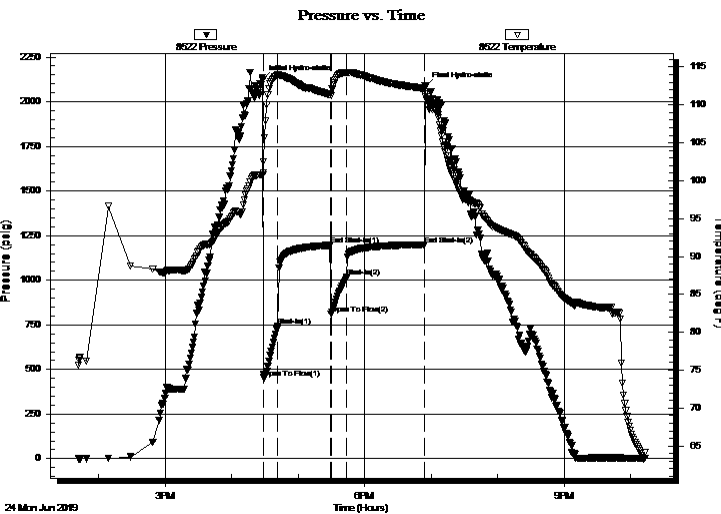
Time On Btm:

2019.06.24 @ 16:28:15

Time Off Btm:

2019.06.24 @ 18:55:00

TEST COMMENT: 15- IF: 183" blow .
45- IS: No return.
15- FF: 135" blow .
60- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.42	100.77	Initial Hydro-static
1	453.67	102.46	Open To Flow (1)
14	744.81	113.92	Shut-In(1)
61	1196.25	111.37	End Shut-In(1)
62	809.86	111.24	Open To Flow (2)
76	1016.14	114.29	Shut-In(2)
146	1200.15	112.17	End Shut-In(2)
147	2082.63	111.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	mcw 3m 97w w/oil spots on top	15.75

* Recovery from multiple tests

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: 64360

DST#: 3

ATTN: Larry Nicholson

Test Start: 2019.06.24 @ 13:42:00

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:

51000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 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
1200.00	mcw 3m 97w w/oil spots on top	15.749

Total Length: 1200.00 ft Total Volume: 15.749 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .155 @ 74f = 51000ppm

Pressure vs. Time

