



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22nd St N 700
 Wichita, Ks 67278
 ATTN: John Goldsmith

17-16s-31w Scott, Ks
Scheuerman 17D #1
 Job Ticket: 65175 **DST#: 2**
 Test Start: 2019.04.30 @ 11:00:06

GENERAL INFORMATION:

Formation: **LKC-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:05:06
 Time Test Ended: 18:00:36
 Interval: **4019.00 ft (KB) To 4040.00 ft (KB) (TVD)**
 Total Depth: 4040.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2951.00 ft (KB)
 2944.00 ft (CF)
 KB to GR/CF: 7.00 ft

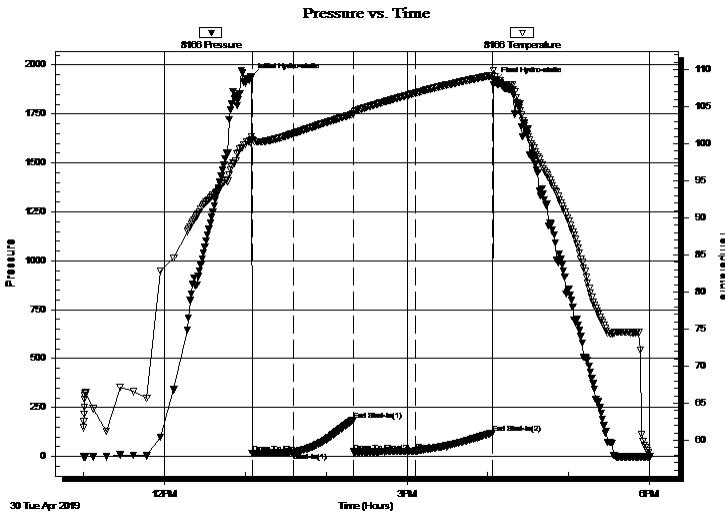
Serial #: 8166

Outside

Press@RunDepth: 27.79 psig @ 4020.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.30 End Date: 2019.04.30 Last Calib.: 2019.04.30
 Start Time: 11:00:11 End Time: 18:00:35 Time On Btm: 2019.04.30 @ 13:04:36
 Time Off Btm: 2019.04.30 @ 16:05:06

TEST COMMENT: IF: 1/4 blow built to 2.
 IS: No return.
 FF: Surface blow built to 1/2.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.50	100.92	Initial Hydro-static
1	14.35	100.58	Open To Flow (1)
31	20.02	101.36	Shut-In(1)
76	186.43	104.00	End Shut-In(1)
76	23.09	104.10	Open To Flow (2)
122	27.79	106.84	Shut-In(2)
179	119.48	109.21	End Shut-In(2)
181	1914.38	109.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 20%o 80%m	0.02
2.00	free oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

17-16s-31w Scott, Ks

8100 E 22nd St N 700
Wichita, Ks 67278

Scheuerman 17D #1

Job Ticket: 65175

DST#: 2

ATTN: John Goldsmith

Test Start: 2019.04.30 @ 11:00:06

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:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 20%o 80%m	0.025
2.00	free oil 100%o	0.010

Total Length: 7.00 ft Total Volume: 0.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

