



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

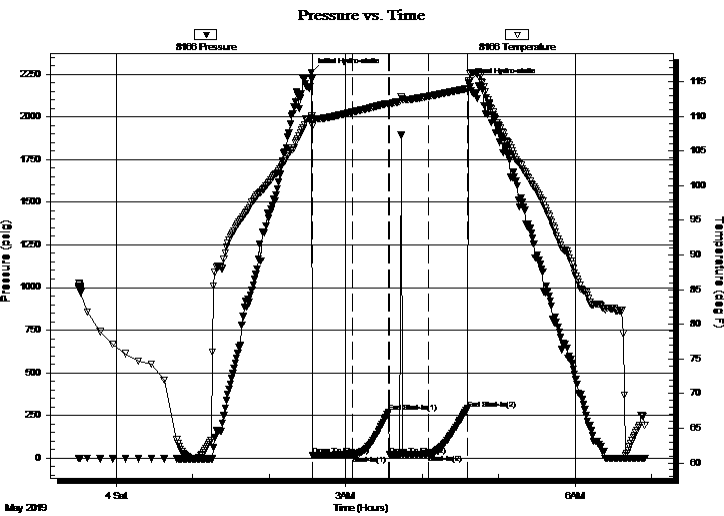
17-16s-31w Scott, Ks
Scheuerman 17D #1
 Job Ticket: 65227 **DST#: 4**
 Test Start: 2019.05.03 @ 23:30:24

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:33:54
 Time Test Ended: 06:54:24
Interval: 4543.00 ft (KB) To 4607.00 ft (KB) (TVD)
 Total Depth: 4607.00 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: 22.42 psig @ 4544.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.03 End Date: 2019.05.04 Last Calib.: 2019.05.04
 Start Time: 23:30:29 End Time: 06:54:23 Time On Btm: 2019.05.04 @ 02:32:54
 Time Off Btm: 2019.05.04 @ 04:36:24

TEST COMMENT: IF: 1/4 blow built to 3/4.
 IS: No return.
 FF: No blow flushed tool no blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.78	109.83	Initial Hydro-static
1	17.21	108.57	Open To Flow (1)
32	17.79	110.59	Shut-In(1)
61	267.87	111.87	End Shut-In(1)
62	18.73	111.83	Open To Flow (2)
92	22.42	112.88	Shut-In(2)
123	288.78	113.99	End Shut-In(2)
124	2200.27	115.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.02

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Scheuerman 17D #1

Job Ticket: 65227

DST#: 4

ATTN: John Goldsmith

Test Start: 2019.05.03 @ 23:30:24

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

