



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company Inc.
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita KS 67205
 ATTN: Phil Askey

34-15s-26w Gove Co KS

Muchmore-Thornburg

Job Ticket: 63937

DST#: 4

Test Start: 2019.10.16 @ 22:29:15

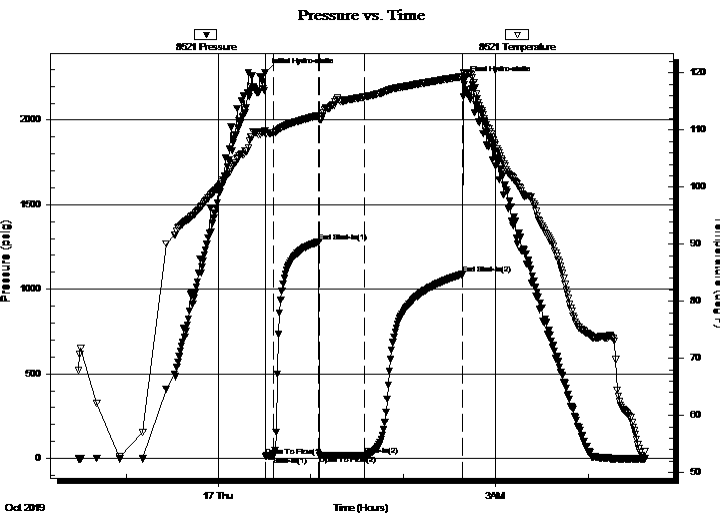
GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:30:45
 Time Test Ended: 04:37:00
 Interval: **4479.00 ft (KB) To 4494.00 ft (KB) (TVD)**
 Total Depth: 4494.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2563.00 ft (KB)
 2558.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8521

Press@RunDepth: 18.92 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.10.16 End Date: 2019.10.17 Last Calib.: 2019.10.17
 Start Time: 22:29:15 End Time: 04:37:00 Time On Btm: 2019.10.17 @ 00:30:15
 Time Off Btm: 2019.10.17 @ 02:39:15

TEST COMMENT: IF: Built to 3/4" blow
 IS: Very weak surface blow
 FF: Built to 1 1/2" blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.56	109.92	Initial Hydro-static
1	14.03	109.28	Open To Flow (1)
6	15.10	109.49	Shut-In(1)
35	1280.58	112.57	End Shut-In(1)
36	16.75	111.87	Open To Flow (2)
65	18.92	115.82	Shut-In(2)
128	1088.15	119.37	End Shut-In(2)
129	2232.17	120.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	free oil 100%o	0.04
20.00	mco 20%m 80%o	0.28

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	free oil 100%o	0.042
20.00	mco 20%m 80%o	0.281

Total Length: 23.00 ft Total Volume: 0.323 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 40 @ 60 corrected to 40

