



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita KS
 67206
 ATTN: Bryan Bynog

15-10s-33w Thomas Co KS

MRM #2
 Job Ticket: 63941 **DST#: 4**
 Test Start: 2019.10.31 @ 07:40:15

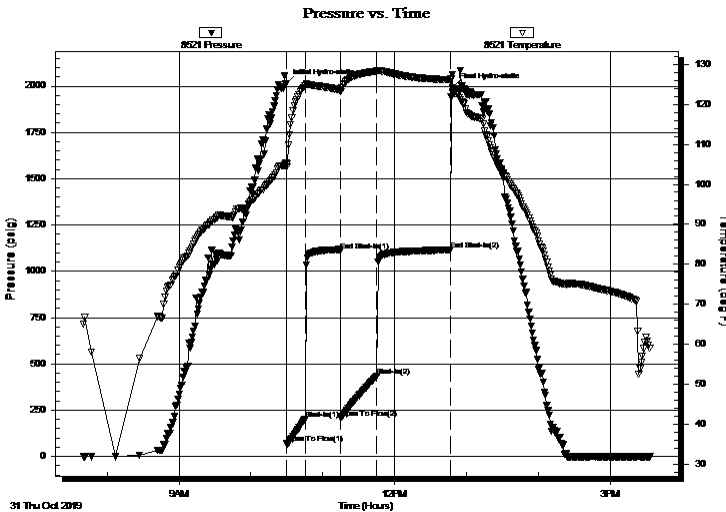
GENERAL INFORMATION:

Formation: **E**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:30:00
 Time Test Ended: 15:33:15
 Interval: **4150.00 ft (KB) To 4180.00 ft (KB) (TVD)**
 Total Depth: 4180.00 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: 3160.00 ft (KB)
 3150.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8521 Inside
 Press@RunDepth: 435.15 psig @ 4151.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.10.31 End Date: 2019.10.31 Last Calib.: 2019.10.31
 Start Time: 07:40:15 End Time: 15:33:15 Time On Btm: 2019.10.31 @ 10:29:45
 Time Off Btm: 2019.10.31 @ 12:48:30

TEST COMMENT: IF: Built to 31 1/2" blow ..BOB in 10 min
 IS: No return blow
 FF: Built to 45" blow BOB in 10 min
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.88	105.35	Initial Hydro-static
1	70.00	104.43	Open To Flow (1)
16	202.15	124.67	Shut-In(1)
46	1108.75	123.49	End Shut-In(1)
46	208.53	123.14	Open To Flow (2)
76	435.15	128.30	Shut-In(2)
137	1114.70	126.13	End Shut-In(2)
139	1991.00	122.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	free oil 100%o	0.02
186.00	ocw m 10%o 30%w 60%m	2.13
248.00	ocmw 10%o 40%m 50%w	3.48
186.00	ocmw 5%o 5%m 90%w	2.61
248.00	sw 100% sw	3.48

* Recovery from multiple tests

Gas Rates

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



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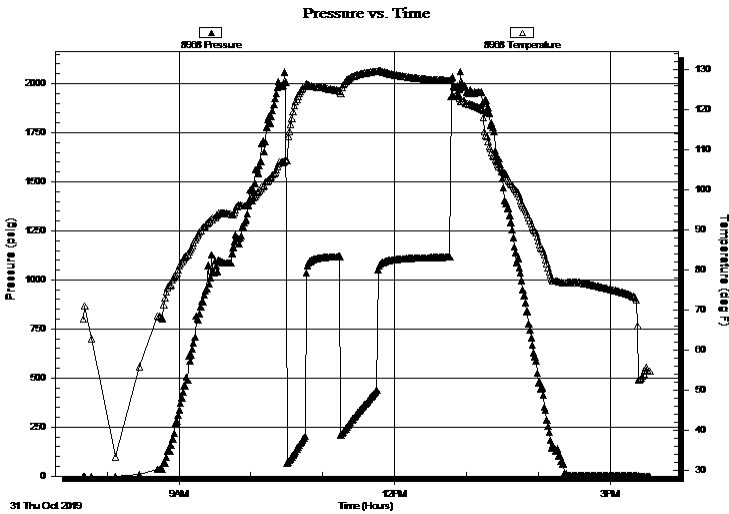
Serial #: 8968

Outside

Press@RunDepth: psig @ 4151.00 ft (KB) Capacity: 8000.00 psig
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 Time Off Btm:

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FLUID SUMMARY

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15-10s-33w Thomas Co KS

2020 N Bramblewood
Wichita KS
67206
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MRM #2

Job Ticket: 63941

DST#: 4

Test Start: 2019.10.31 @ 07:40:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	free oil 100%o	0.025
186.00	ocw m 10%o 30%w 60%m	2.126
248.00	ocmw 10%o 40%m 50%w	3.479
186.00	ocmw 5%o 5%m 90%w	2.609
248.00	sw 100% sw	3.479

Total Length: 873.00 ft Total Volume: 11.718 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .491@ 47.1 = 24,000 ppm

API= 32 @ 60

Serial #: 8521

Inside

Berexco LLC

MRM#2

DST Test Number: 4

Pressure vs. Time

