



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Marexco, Inc
 PO Box 21598
 Oklahoma City, Ok 73156
 ATTN: Larry Nicholson

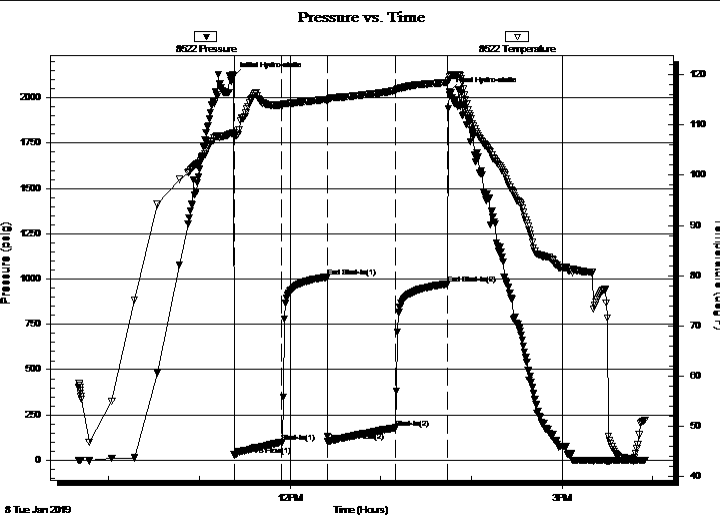
28 14s 29w Gove, Ks
Lundgren #32-28
 Job Ticket: 65177 **DST#: 4**
 Test Start: 2019.01.08 @ 09:40:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:23:00
 Time Test Ended: 15:54:45
 Interval: **4097.00 ft (KB) To 4196.00 ft (KB) (TVD)**
 Total Depth: 4196.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2611.00 ft (KB)
 2606.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522 Inside
 Press@RunDepth: 178.87 psig @ 4098.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.08 End Date: 2019.01.08 Last Calib.: 2019.01.08
 Start Time: 09:40:05 End Time: 15:54:44 Time On Btm: 2019.01.08 @ 11:22:30
 Time Off Btm: 2019.01.08 @ 13:45:30

TEST COMMENT: 30- IF: BOB @ 18 min built to 15".
 30- IS: No return.
 45- FF: BOB @ 25 min. built to 19"
 30- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.20	108.40	Initial Hydro-static
1	29.38	107.89	Open To Flow (1)
32	99.38	113.96	Shut-In(1)
62	1010.41	115.11	End Shut-In(1)
63	103.87	114.90	Open To Flow (2)
108	178.87	116.90	Shut-In(2)
142	972.77	118.47	End Shut-In(2)
143	2033.77	119.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	w cm 50w 50m (oil spots)	4.91
0.00	6" oil on top	0.00

Gas Rates

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

* Recovery from multiple tests



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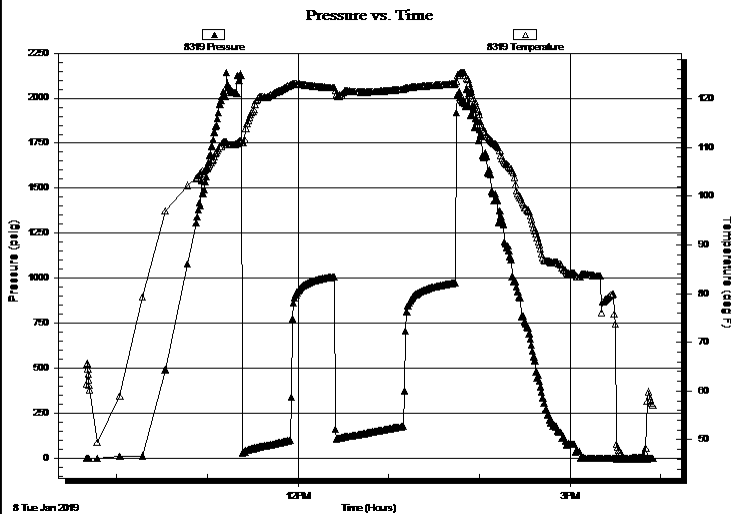
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Time Test Ended: 15:54:45 Unit No: 78
Interval: 4097.00 ft (KB) To 4196.00 ft (KB) (TVD) Reference Elevations: 2611.00 ft (KB)
Total Depth: 4196.00 ft (KB) (TVD) 2606.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 Outside
Press@RunDepth: psig @ 4098.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.01.08 End Date: 2019.01.08 Last Calib.: 2019.01.08
Start Time: 09:40:05 End Time: 15:54:44 Time On Btm:
Time Off Btm:

TEST COMMENT: 30- IF: BOB @ 18 min built to 15".
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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

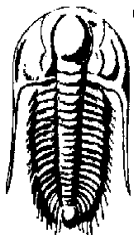
Recovery

Length (ft)	Description	Volume (bbl)
350.00	w cm 50w 50m (oil spots)	4.91
0.00	6" oil on top	0.00

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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PO Box 21598
Oklahoma City, Ok 73156
ATTN: Larry Nicholson

28 14s 29w Gove, Ks
Lundgren #32-28
Job Ticket: 65177 **DST#: 4**
Test Start: 2019.01.08 @ 09:40:00

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: 55000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	w cm 50w 50m (Oil spots)	4.910
0.00	6" oil on top	0.000

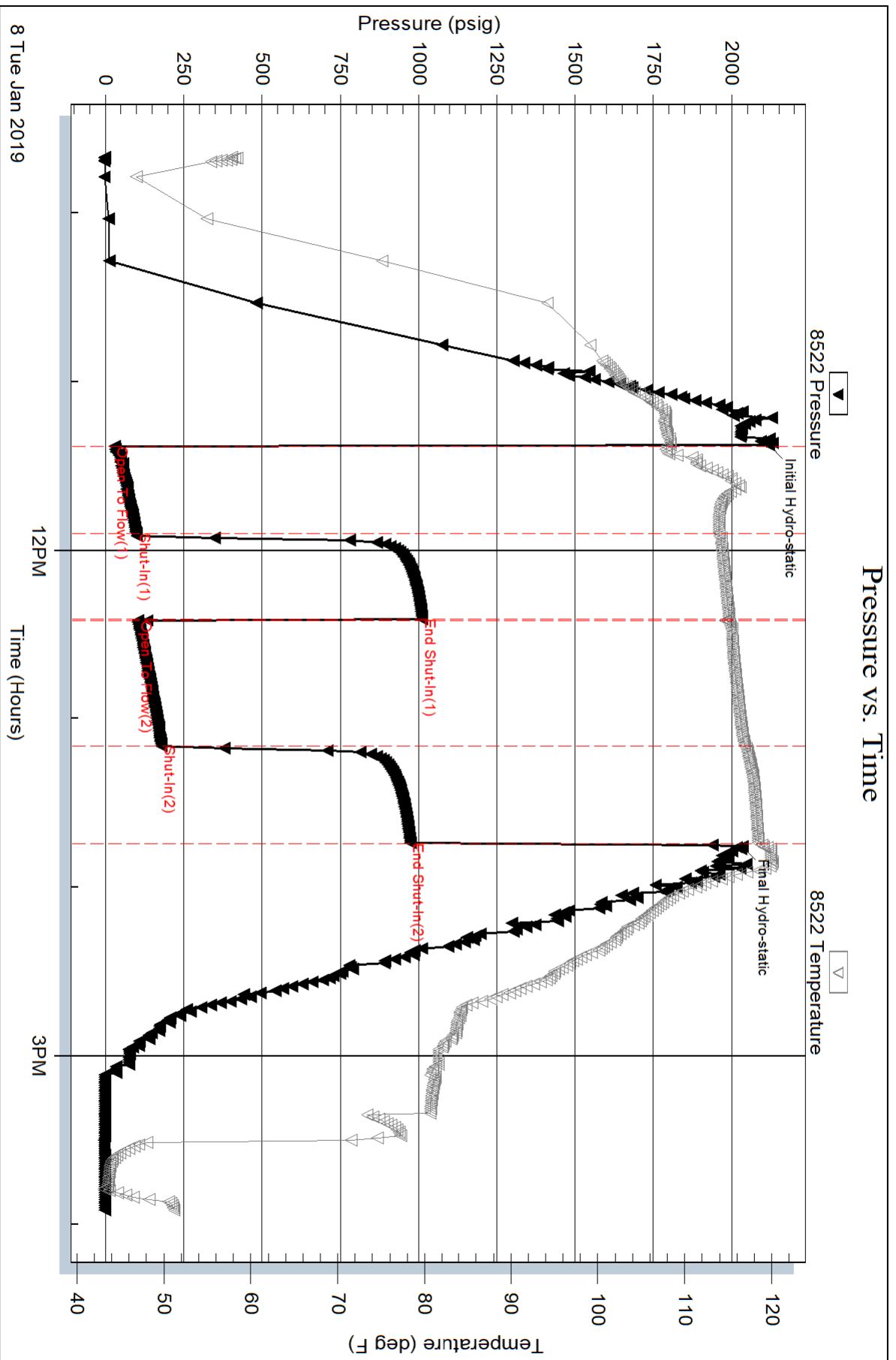
Total Length: 350.00 ft Total Volume: 4.910 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .183 @ 53f= 55000ppm

Pressure vs. Time



Serial #: 8319

Outside Marexco, Inc

Lundgren #32-28

DST Test Number: 4

