



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grunder Oil, LLC.

14-25s-13w Stafford Co., Ks

122 S. Main St.
St. John, Ks. 67576

Grunder #3

Job Ticket: 65457

DST#: 1

ATTN: Keaton Jones

Test Start: 2019.11.28 @ 01:15:13

GENERAL INFORMATION:

Formation: **Lansing " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:03:58

Time Test Ended: 08:41:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3856.00 ft (KB) To 3920.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 3920.00 ft (KB) (TVD)

1921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8931

Inside

Press@RunDepth: 46.59 psig @ 3857.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.28

End Date:

2019.11.28

Last Calib.:

2019.11.28

Start Time: 01:15:18

End Time:

08:41:12

Time On Btm:

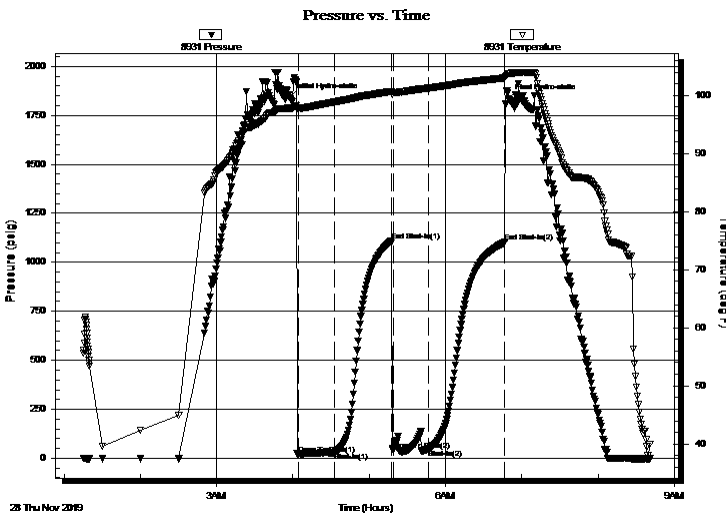
2019.11.28 @ 03:57:13

Time Off Btm:

2019.11.28 @ 06:49:43

TEST COMMENT: IF: Weak Blow . Built to 2 1/2".
IS: No Blow .
FF: Weak Blow . Built to 1 1/2".
FS: No Blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.57	97.78	Initial Hydro-static
7	21.92	97.76	Open To Flow (1)
36	28.53	98.86	Shut-In(1)
80	1107.88	100.66	End Shut-In(1)
82	41.12	100.46	Open To Flow (2)
109	46.59	101.23	Shut-In(2)
170	1102.31	103.01	End Shut-In(2)
173	1836.22	103.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
34.00	OspottedM 100%m	0.48

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

ATTN: Keaton Jones

Test Start: 2019.11.28 @ 01:15:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

8000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 8000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
34.00	OspottedM 100%m	0.477

Total Length: 34.00 ft Total Volume: 0.477 bbl

Num Fluid Samples: 0

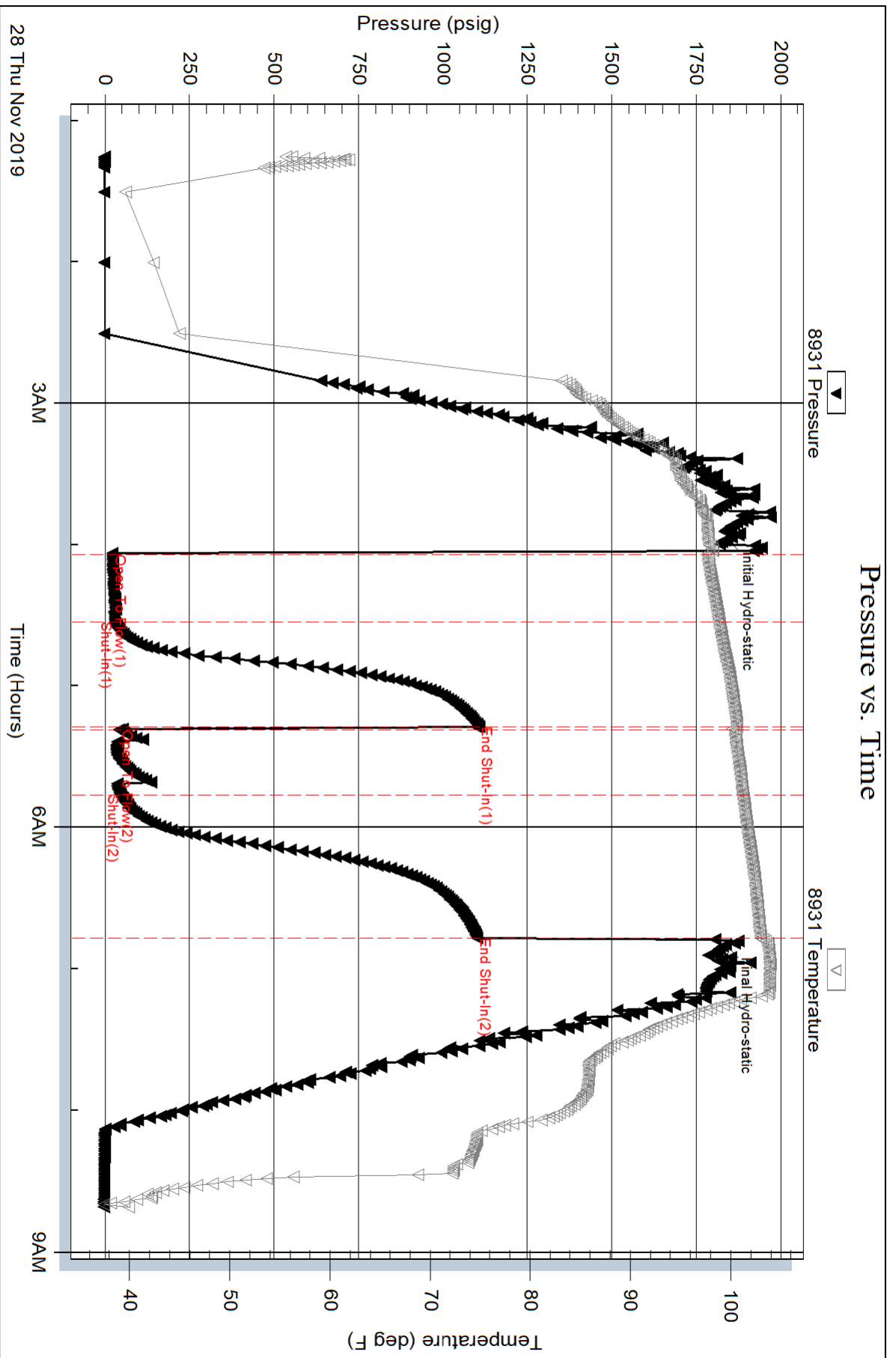
Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8788

Outside Grunder Oil, LLC.

Grunder #3

DST Test Number: 1

