

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

7/26/22

Box 783188 Wichita Ks. 67272-3188

#1 Herron

Job Ticket: 42360

DST#: 1

ATTN: Ted Jochems

Test Start: 2011.12.02 @ 03:15:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 05:11:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 58

Interval: **4767.00 ft (KB) To 4867.00 ft (KB) (TVD)**

Reference Elevations: 2429.00 ft (KB)

Total Depth: 4856.00 ft (KB) (TVD)

2422.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.02

End Date:

2011.12.02

Last Calib.:

2011.12.02

Start Time: 03:15:05

End Time:

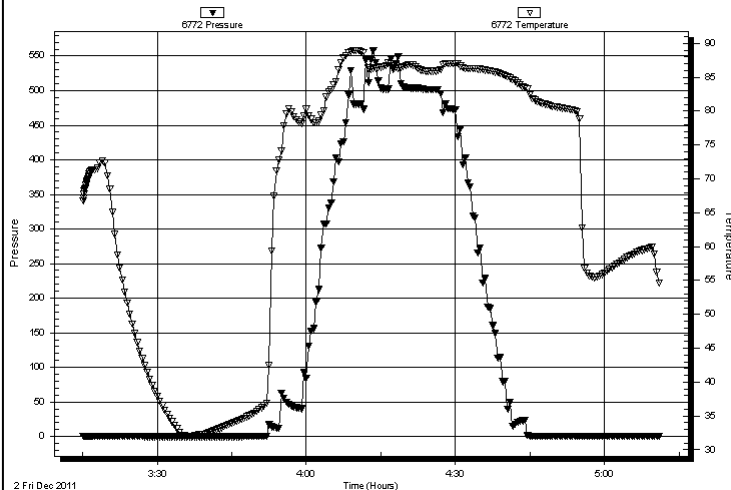
05:11:00

Time On Btm:

Time Off Btm:

TEST COMMENT: Hit a bridge at 1660' had to come out and go back to bottom and clean hole.

Pressure vs. Time



PRESSURE SUMMARY

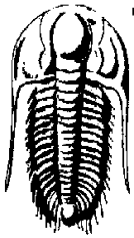
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

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7/26/22

Box 783188 Wichita Ks. 67272-3188

#1 Herron

Job Ticket: 42360

DST#: 1

ATTN: Ted Jochems

Test Start: 2011.12.02 @ 03:15:00

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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

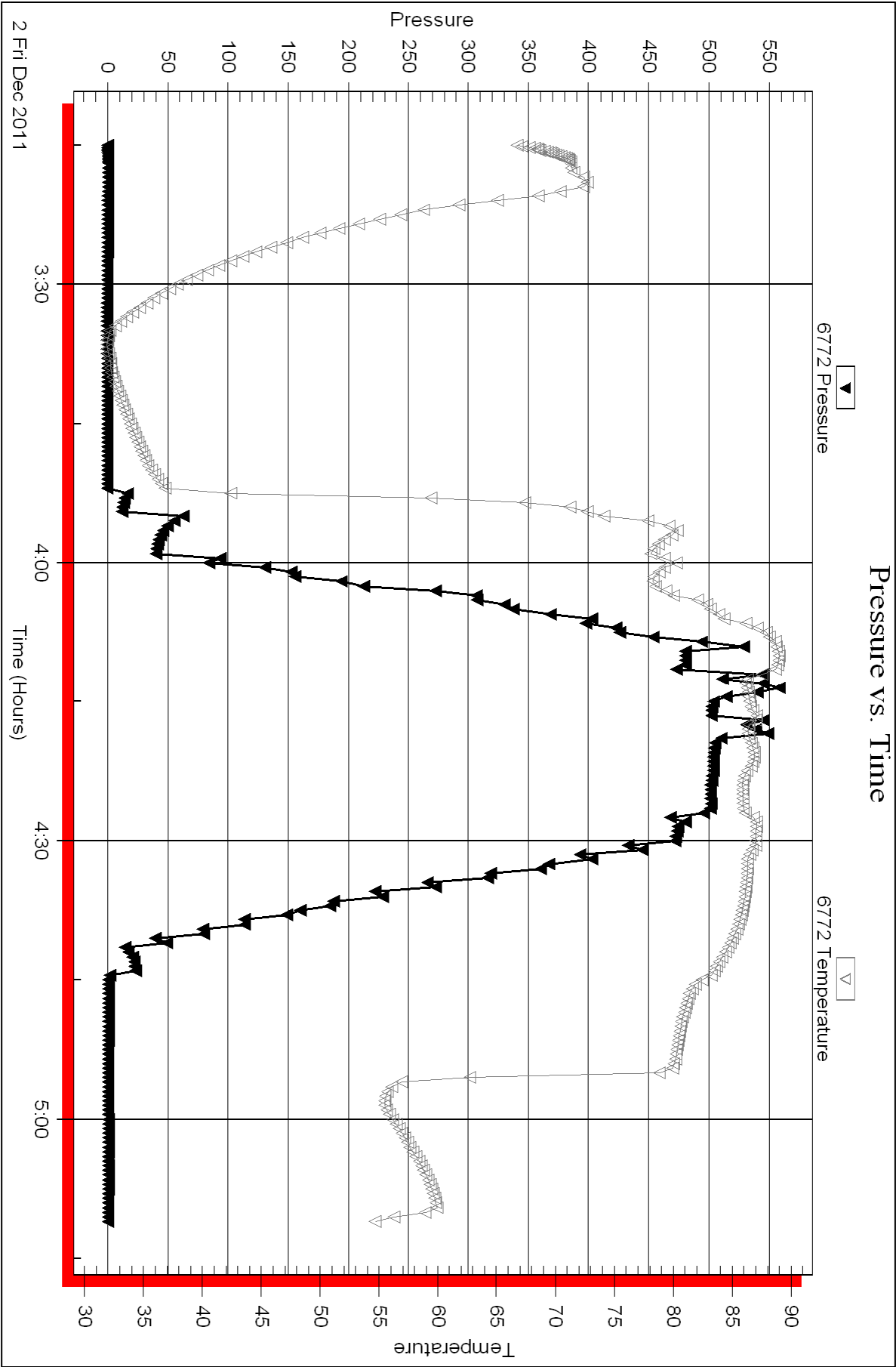
Recovery Comments:

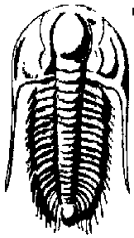
Serial #: 6772

Ritchie Exploration Inc.

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DST Test Number: 1





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DRILL STEM TEST REPORT

Ritchie Exploration Inc.

7/26/22

Box 783188 Wichita Ks. 67272-3188

#1 Herron

Job Ticket: 42361

DST#: 2

ATTN: Ted Jochems

Test Start: 2011.12.02 @ 11:45:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:53:00

Time Test Ended: 19:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 58

Interval: **4767.00 ft (KB) To 4856.00 ft (KB) (TVD)**

Total Depth: 4856.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2429.00 ft (KB)

2422.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6772

Press@RunDepth: 26.39 psig @ ft (KB)

Start Date: 2011.12.02

End Date:

2011.12.02

Start Time: 11:45:05

End Time:

19:08:59

Capacity: 8000.00 psig

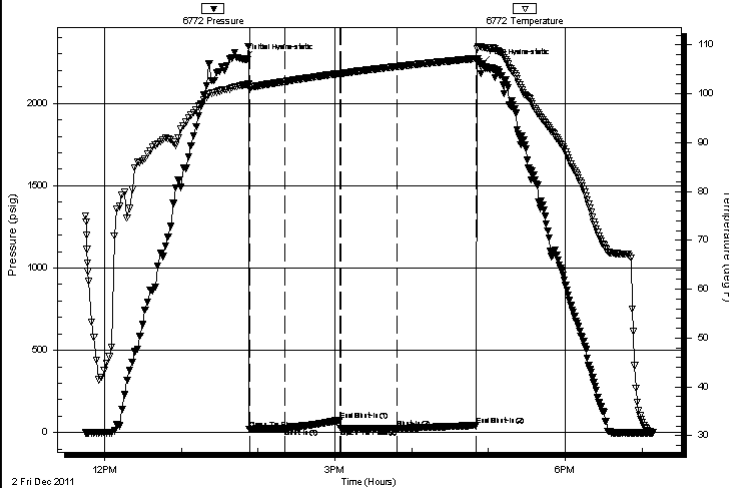
Last Calib.: 2011.12.02

Time On Btm: 2011.12.02 @ 13:49:15

Time Off Btm: 2011.12.02 @ 16:55:15

TEST COMMENT: IF- Weak building blow 1" in bucket.
IS- No blow back.
FF- Weak surface blow that died after 15min.
FS- No blow back.

Pressure vs. Time



PRESSURE SUMMARY

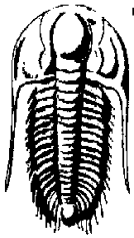
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.00	101.82	Initial Hydro-static
4	21.72	101.48	Open To Flow (1)
32	24.23	102.50	Shut-In(1)
75	77.22	104.16	End Shut-In(1)
76	24.97	104.17	Open To Flow (2)
119	26.39	105.55	Shut-In(2)
181	44.23	107.22	End Shut-In(2)
186	2241.42	109.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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7/26/22

Box 783188 Wichita Ks. 67272-3188

#1 Herron

Job Ticket: 42361

DST#: 2

ATTN: Ted Jochems

Test Start: 2011.12.02 @ 11:45:00

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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100% mud	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

Ritchie Exploration Inc.

#1 Herron

DST Test Number: 2

