



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources Inc

80 Windmill Rd
Phillipsburg, Ks. 67661

ATTN: Jason Alm

24-12s-22w Trego Co. Ks

Bunker #5

Job Ticket: 64708

DST#: 4

Test Start: 2018.09.27 @ 12:05:46

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:46

Time Test Ended: 18:41:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3938.00 ft (KB) To 3970.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3970.00 ft (KB) (TVD)

2313.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8931 Inside

Press@RunDepth: 28.09 psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.27

End Date:

2018.09.27

Last Calib.: 2018.09.27

Start Time: 12:05:51

End Time:

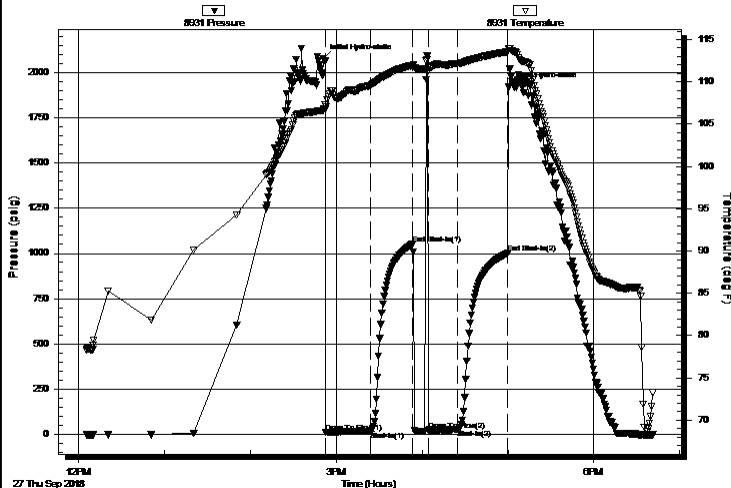
18:41:30

Time On Btm: 2018.09.27 @ 14:51:16

Time Off Btm: 2018.09.27 @ 17:00:46

TEST COMMENT: IF: Weak blow . Built to 1 1/4".
ISI: No blow .
FF: Weak blow . Built to 1/4", after flush.
FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.63	106.67	Initial Hydro-static
2	10.66	106.79	Open To Flow (1)
33	17.79	109.62	Shut-In(1)
62	1050.42	111.97	End Shut-In(1)
74	24.32	111.86	Open To Flow (2)
94	28.09	112.18	Shut-In(2)
129	1001.09	113.55	End Shut-In(2)
130	1922.05	113.93	Final Hydro-static

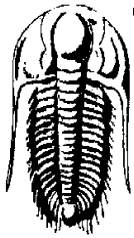
Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig M w Oil specs	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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ATTN: Jason Alm

24-12s-22w Trego Co. Ks

Bunker #5

Job Ticket: 64708

DST#: 4

Test Start: 2018.09.27 @ 12:05:46

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:46

Time Test Ended: 18:41:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3938.00 ft (KB) To 3970.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3970.00 ft (KB) (TVD)

2313.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.27

End Date:

2018.09.27

Last Calib.:

2018.09.27

Start Time: 12:05:48

End Time:

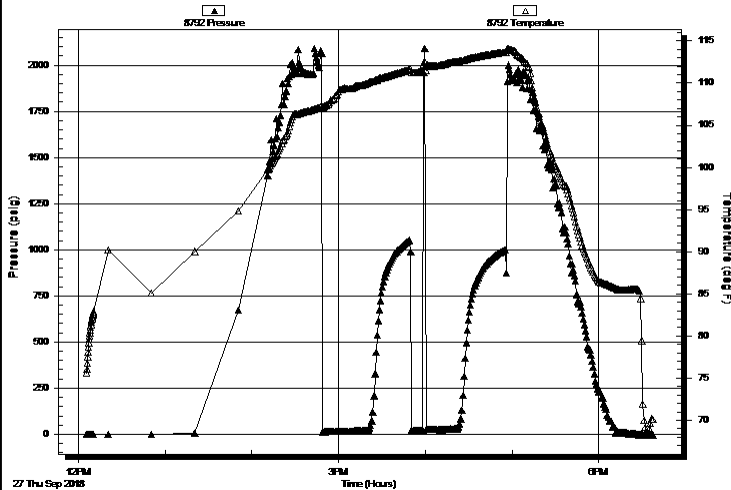
18:37:42

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow . Built to 1 1/4".
IS: No blow .
FF: Weak blow . Built to 1/4", after flush.
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
20.00	Drig M w Oil specs	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources Inc

24-12s-22w Trego Co. Ks

80 Windmill Rd
Phillipsburg, Ks. 67661

Bunker #5

Job Ticket: 64708

DST#: 4

ATTN: Jason Alm

Test Start: 2018.09.27 @ 12:05:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

4800 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig Mw Oil specs	0.152

Total Length: 20.00 ft Total Volume: 0.152 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Vis for DST 4 is 60+.

Serial #: 8931

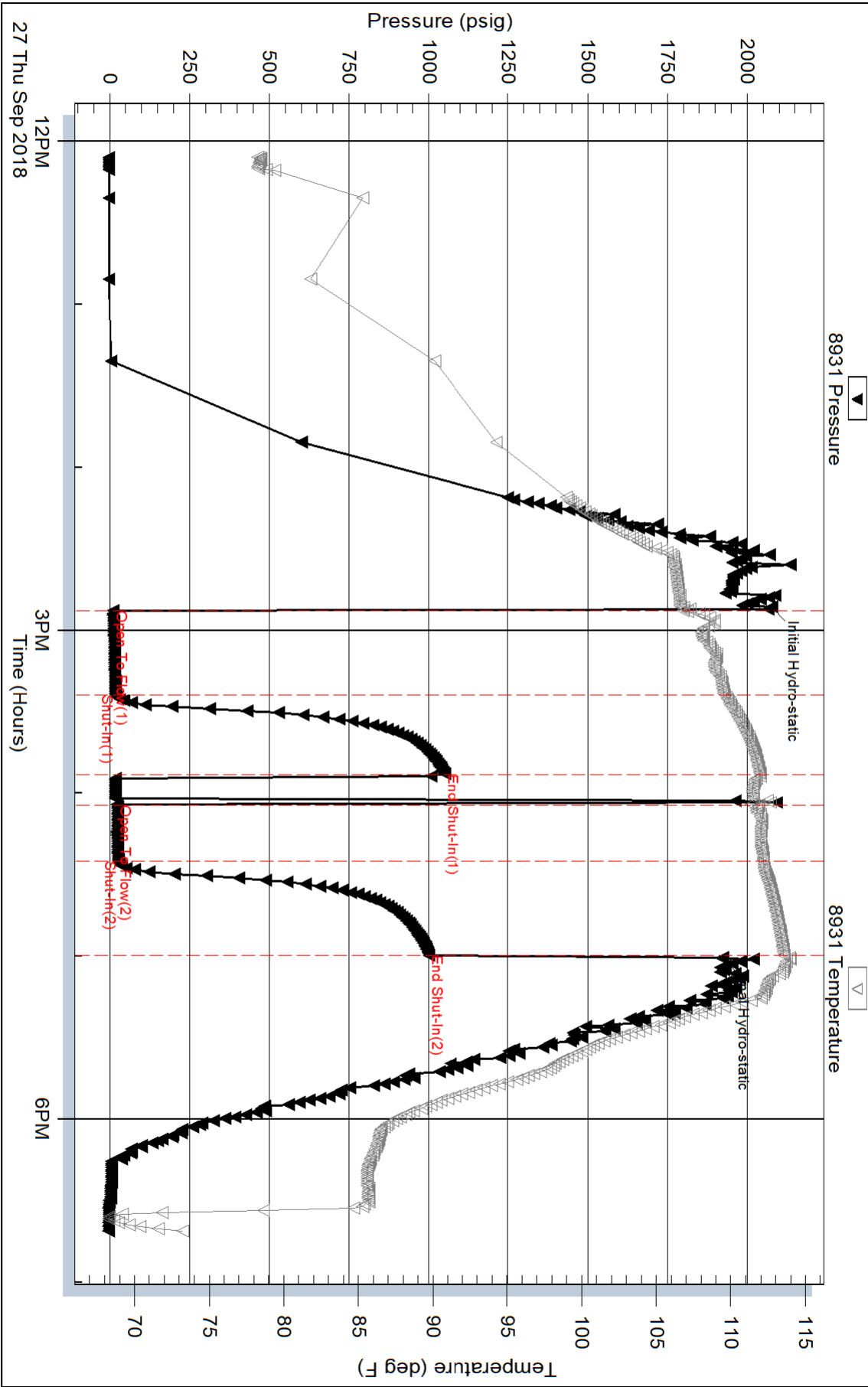
Inside

Pioneer Resources Inc

Bunker #5

DST Test Number: 4

Pressure vs. Time



Serial #: 8792

Outside Pioneer Resources Inc

Bunker #5

DST Test Number: 4

