



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: 64706

DST#: 2

Test Start: 2018.09.25 @ 10:10:38

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:30:33

Time Test Ended: 16:34:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3672.00 ft (KB) To 3688.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3688.00 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: 22.58 psig @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.25

End Date:

2018.09.25

Last Calib.: 2018.09.25

Start Time: 10:10:38

End Time:

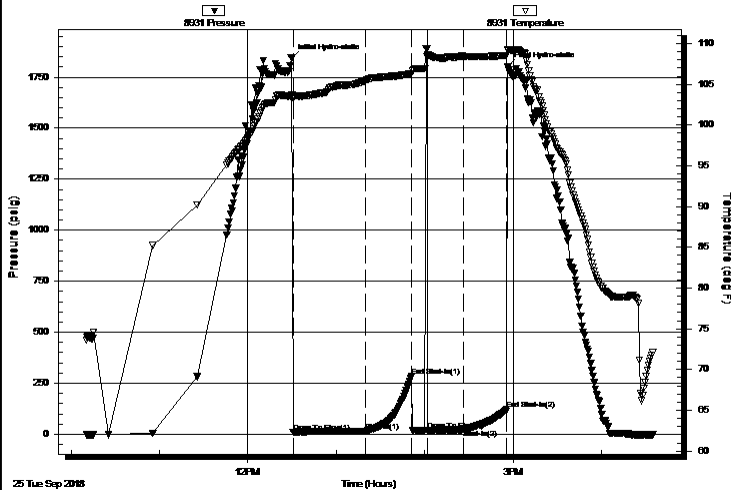
16:34:47

Time On Btm: 2018.09.25 @ 12:29:48

Time Off Btm: 2018.09.25 @ 14:56:17

TEST COMMENT: IF: Weak blow . Surface - 1/4".
IS: No blow .
FF: Weak blow . Surface - 1/8". Flushed tool.
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.35	103.73	Initial Hydro-static
1	9.55	103.28	Open To Flow (1)
50	14.34	105.45	Shut-In(1)
82	282.37	106.29	End Shut-In(1)
92	20.35	108.67	Open To Flow (2)
117	22.58	108.43	Shut-In(2)
146	122.55	108.54	End Shut-In(2)
147	1801.21	109.26	Final Hydro-static

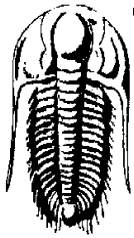
Recovery

Length (ft)	Description	Volume (bbl)
20.00	MCO 98% m 2%	0.15

Gas Rates

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



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24-12s-22w Trego Co. Ks

Bunker #5

Job Ticket: 64706

DST#: 2

Test Start: 2018.09.25 @ 10:10:38

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

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Time Test Ended: 16:34:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3672.00 ft (KB) To 3688.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3688.00 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 @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.25

End Date:

2018.09.25

Last Calib.:

2018.09.25

Start Time: 10:14:12

End Time:

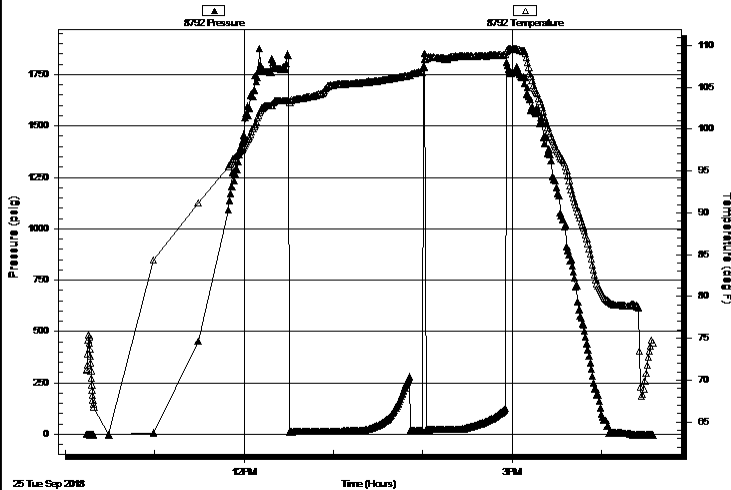
16:34:36

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow . Surface - 1/4".
IS: No blow .
FF: Weak blow . Surface - 1/8". Flushed tool.
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	MCO 98% m 2% o	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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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: 64706

DST#: 2

ATTN: Jason Alm

Test Start: 2018.09.25 @ 10:10:38

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.00 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 5000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MCO 98% m 2% o	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: Flushed tool in Final open. Gas smell in mud.

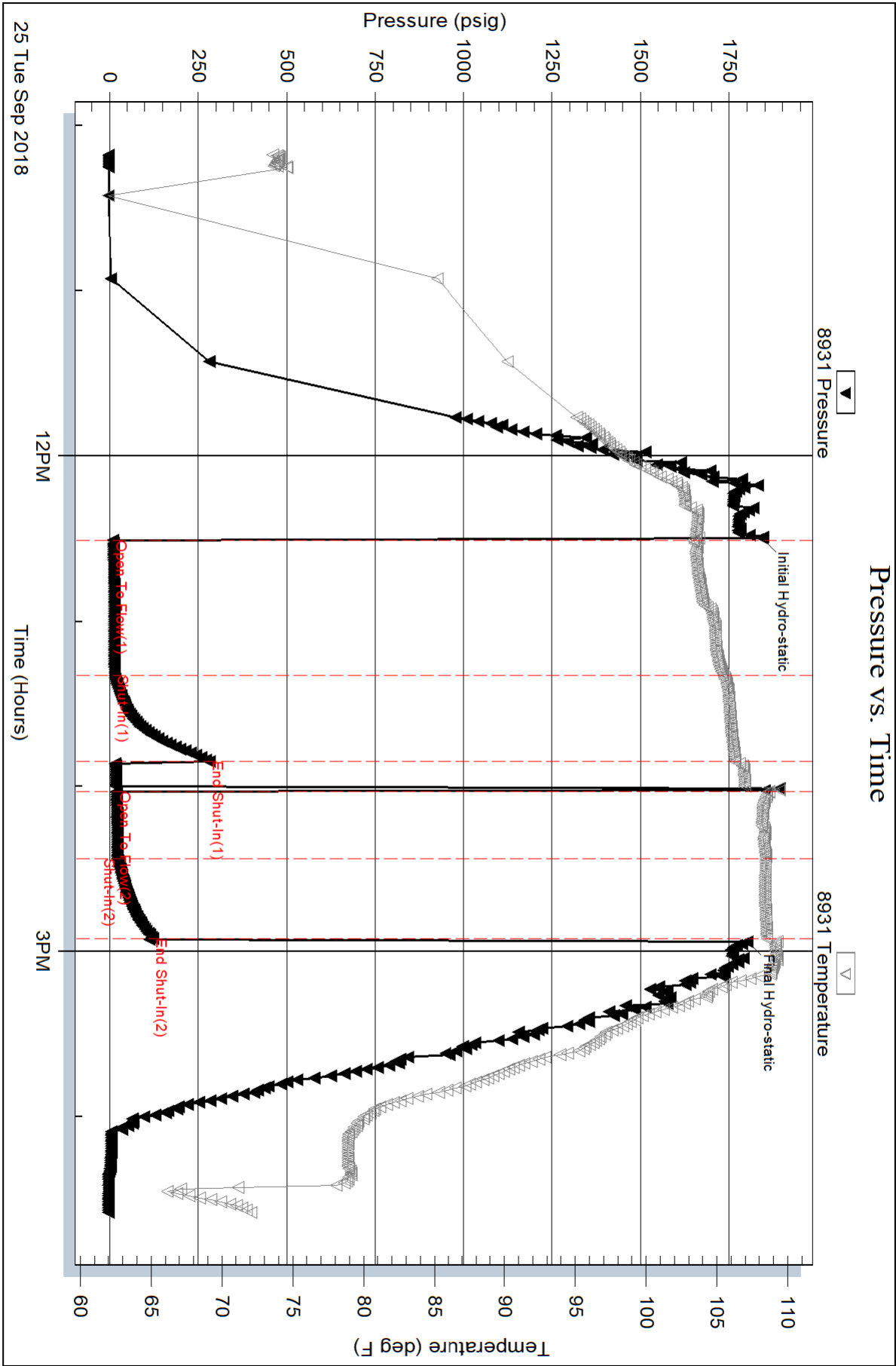
Serial #: 8931

Inside

Pioneer Resources Inc

Bunker #5

DST Test Number: 2



Serial #: 8792

Outside Pioneer Resources Inc

Bunker #5

DST Test Number: 2

