



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: 64705

DST#: 1

Test Start: 2018.09.24 @ 17:13:18

GENERAL INFORMATION:

Formation: **Toronto - LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:13:18

Time Test Ended: 01:27:03

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3571.00 ft (KB) To 3660.00 ft (KB) (TVD)

Total Depth: 3660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2318.00 ft (KB)

2313.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8931 Inside

Press@RunDepth: 426.14 psig @ 3572.00 ft (KB)

Start Date: 2018.09.24

End Date:

2018.09.25

Start Time: 17:13:23

End Time:

01:27:02

Capacity: 8000.00 psig

Last Calib.: 2018.09.25

Time On Btm: 2018.09.24 @ 20:11:18

Time Off Btm: 2018.09.24 @ 21:54:18

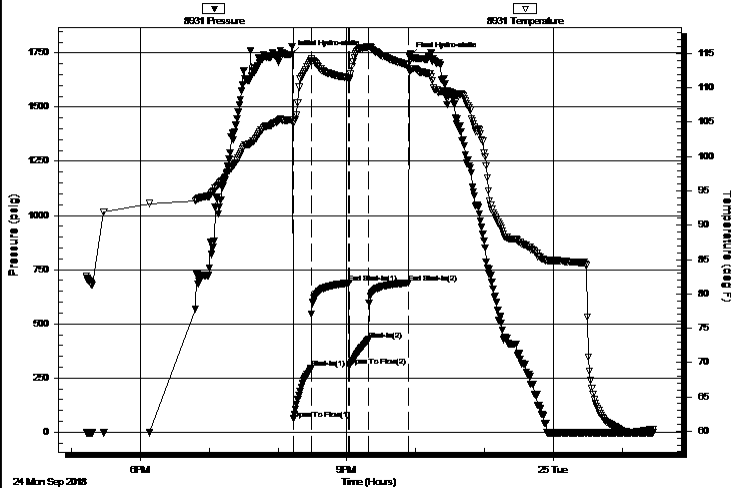
TEST COMMENT: IF: Strong blow . B.O.B. in 3 1/2 mins. Built to 39".

ISI: No blow .

FF: Strong blow . B.O.B. in 6 mins. Built to 23".

FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

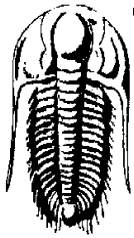
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.94	105.37	Initial Hydro-static
2	61.54	104.76	Open To Flow (1)
18	294.69	114.02	Shut-In (1)
51	687.61	111.48	End Shut-In (1)
51	304.10	111.30	Open To Flow (2)
68	426.14	115.98	Shut-In (2)
102	689.64	113.36	End Shut-In (2)
103	1734.68	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW 77%w 23%w	0.47
372.00	WCM 95%w 5%w	2.83
320.00	WCM 75%w 25%w	4.49
64.00	WCM 60%w 40%w	0.90
35.00	MCW 98%w 2%w	0.49

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Bunker #5

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Total Depth: 3660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2318.00 ft (KB)

2313.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 3572.00 ft (KB)

Start Date: 2018.09.24

End Date:

2018.09.25

Start Time: 17:13:45

End Time:

01:23:24

Capacity: 8000.00 psig

Last Calib.: 2018.09.25

Time On Btm:

Time Off Btm:

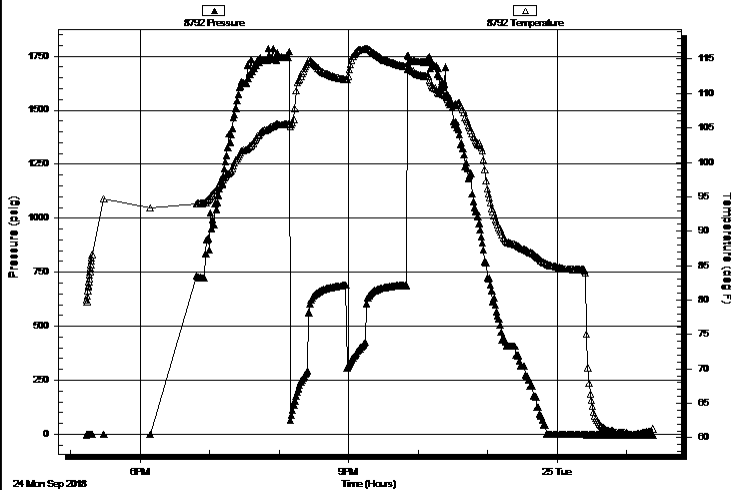
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Pressure vs. Time



PRESSURE SUMMARY

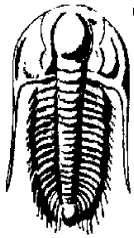
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW 77%w 23%w	0.47
372.00	WCM 95%w 5%w	2.83
320.00	WCM 75%w 25%w	4.49
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35.00	MCW 98%w 2%w	0.49

Gas Rates

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

Pioneer Resources Inc

24-12s-22w Trego Co. Ks

80 Windmill Rd
Phillipsburg, Ks. 67661

Bunker #5

Job Ticket: 64705

DST#: 1

ATTN: Jason Alm

Test Start: 2018.09.24 @ 17:13:18

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 2300.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API: deg API

Water Salinity: 42000 ppm

ft
bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCW 77%m 23%w	0.472
372.00	WCM 95%w 5%m	2.833
320.00	WCM 75%w 25%m	4.488
64.00	WCM 60%w 40%m	0.898
35.00	MCW 98%m 2%w	0.491

Total Length: 853.00 ft Total Volume: 9.182 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity is RW .21 @ 63.5 degrees = 42,000 Chlorides. Grinds outs had gas smell and some slight oil .

Serial #: 8931

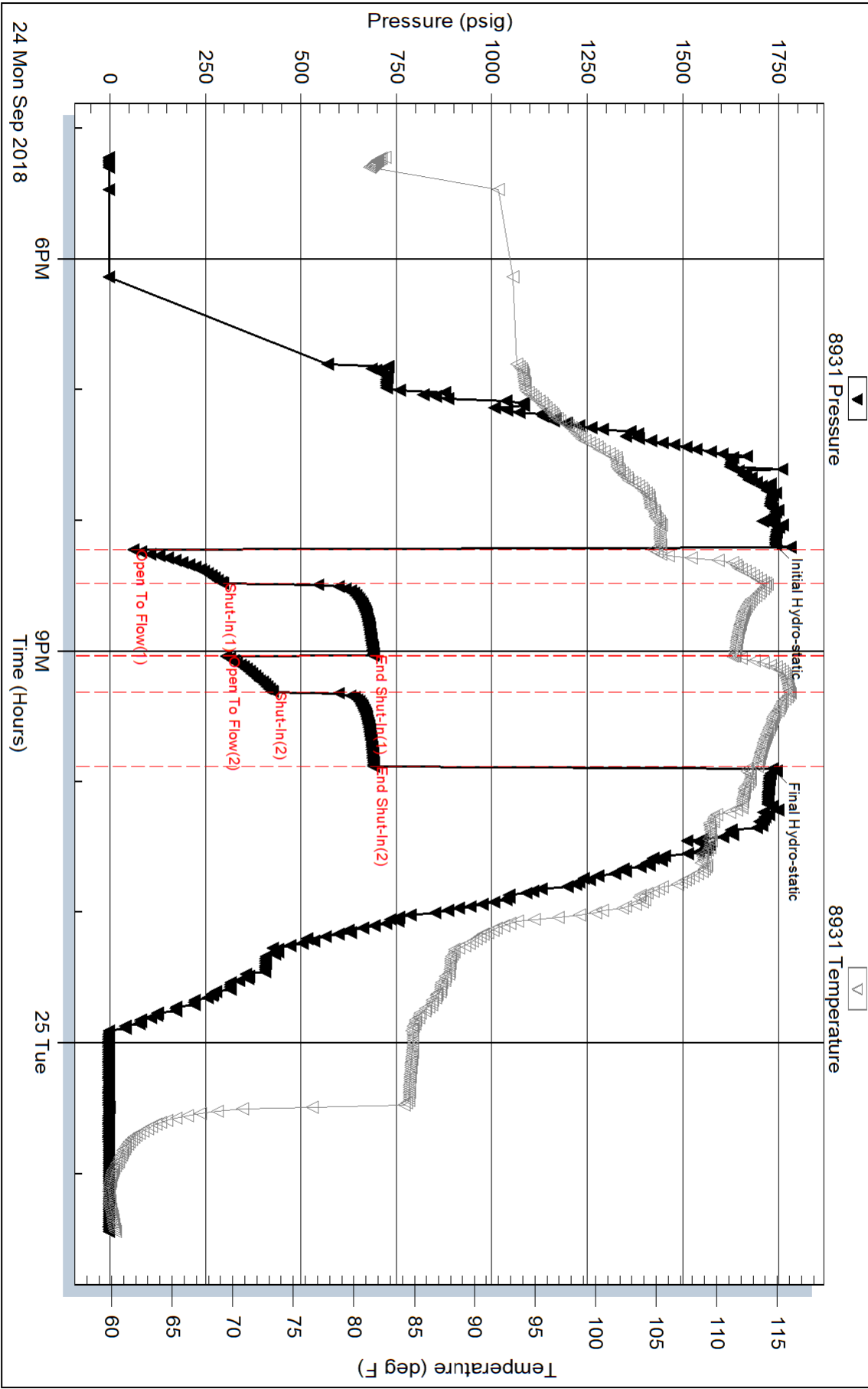
Inside

Pioneer Resources Inc

Bunker #5

DST Test Number: 1

Pressure vs. Time



Serial #: 8792

Outside Pioneer Resources Inc

Bunker #5

DST Test Number: 1

