



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

21-6S-38W Sherman KS

202 W. Main St.
Salem IL 62881

Flanders #1-21

Job Ticket: 65251

DST#: 2

ATTN: Tim Priest

Test Start: 2015.11.29 @ 08:56:00

GENERAL INFORMATION:

Formation: **LKC " H - J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:12:40

Time Test Ended: 16:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 4330.00 ft (KB) To 4415.00 ft (KB) (TVD)

Reference Elevations: 3391.00 ft (KB)

Total Depth: 4415.00 ft (KB) (TVD)

3383.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 106.82 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.29

End Date: 2015.11.29

Last Calib.: 2015.11.29

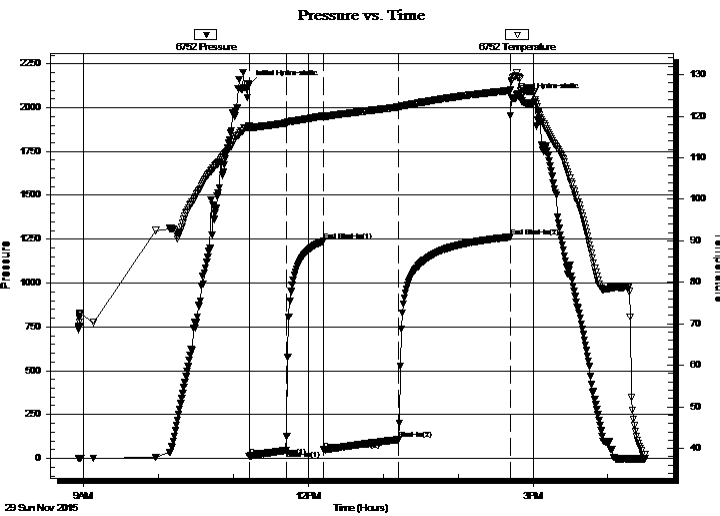
Start Time: 08:56:01

End Time: 16:29:30

Time On Btm: 2015.11.29 @ 11:12:30

Time Off Btm: 2015.11.29 @ 14:42:39

TEST COMMENT: 30 IF - 1" blow built to 7 1/2"
30 ISI - Surface blow built to 6 1/2"
60 FF - Surface blow built to BoB @ 32 mins
90 FSI - Surface blow built to BoB @ 10 mins blew for 30 mins died back to 9"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.36	117.58	Initial Hydro-static
1	13.30	116.97	Open To Flow (1)
30	45.35	118.34	Shut-In(1)
60	1238.93	120.06	End Shut-In(1)
60	48.60	119.79	Open To Flow (2)
120	106.82	122.17	Shut-In(2)
210	1262.17	126.15	End Shut-In(2)
211	2056.72	128.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW - 20%M - 80%W	0.88
63.00	MCW - 10%M - 90%W	0.88
83.00	MCW - 20%M - 80%W	1.16

* Recovery from multiple tests

Gas Rates

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



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Total Depth: 4415.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3391.00 ft (KB)

3383.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8322 Outside

Press @ RunDepth: psig @ 4331.00 ft (KB)

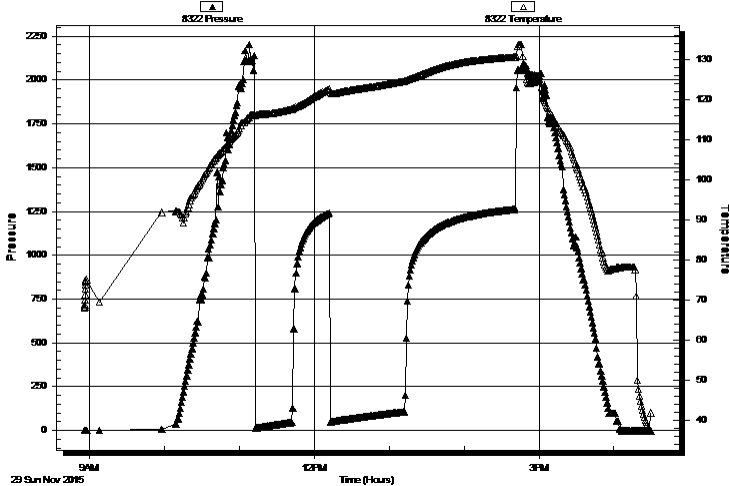
Start Date: 2015.11.29 End Date: 2015.11.29 Capacity: 8000.00 psig

Start Time: 08:56:01 End Time: 16:29:30 Last Calib.: 2015.11.29

Time On Btm: Time Off Btm:

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Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW - 20%M - 80%W	0.88
63.00	MCW - 10%M - 90%W	0.88
83.00	MCW - 20%M - 80%W	1.16

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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21-6S-38W Sherman KS

202 W. Main St.
Salem IL 62881

Flanders #1-21

Job Ticket: 65251

DST#: 2

ATTN: Tim Priest

Test Start: 2015.11.29 @ 08:56:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	MCW - 20%M - 80%W	0.884
63.00	MCW - 10%M - 90%W	0.884
83.00	MCW - 20%M - 80%W	1.164

Total Length: 209.00 ft Total Volume: 2.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

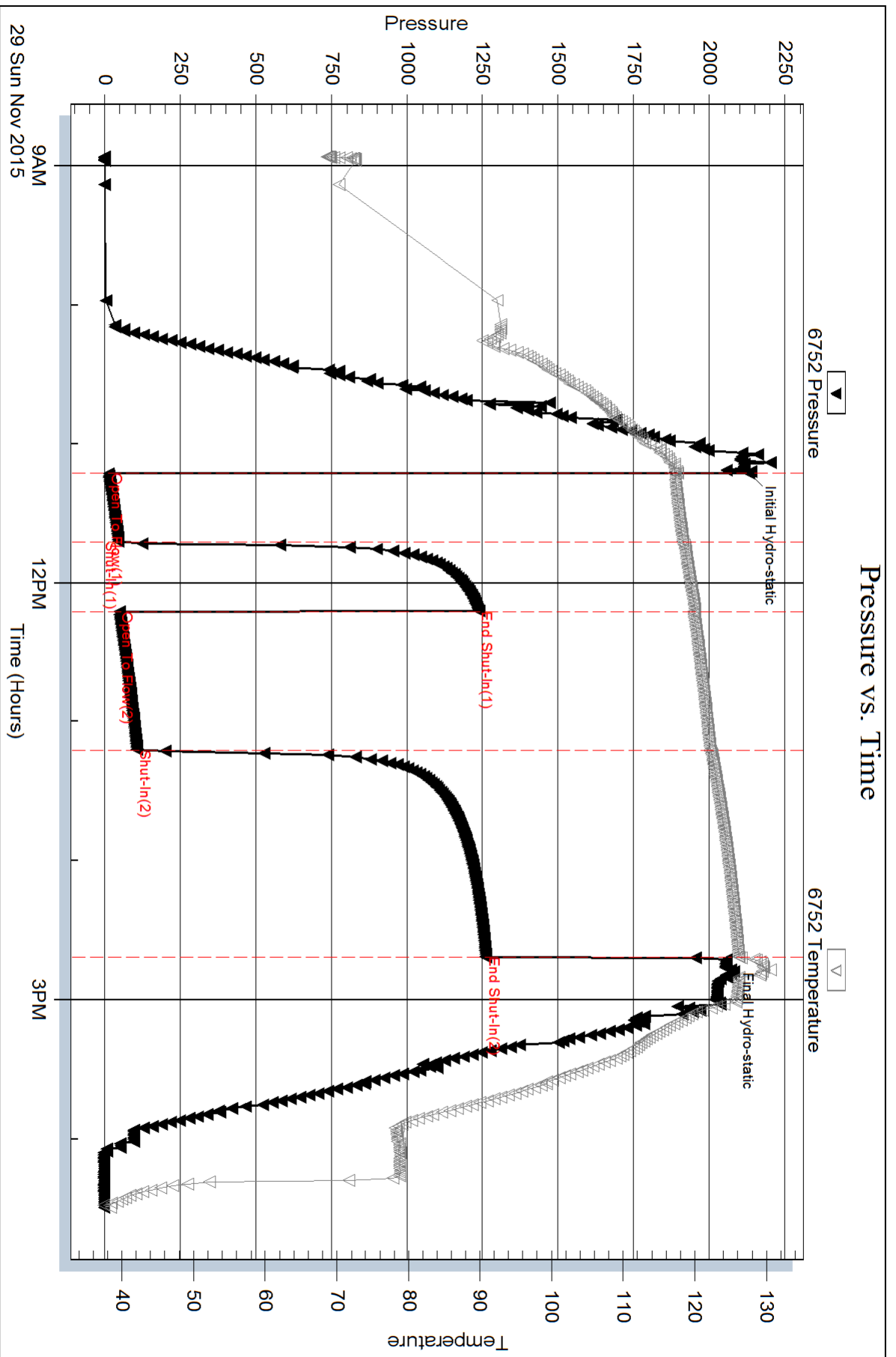
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .897 @ 33 DEG F

CHLORIDES = 16,000



Serial #: 8322

Outside Shakespeare Oil Co. Inc.

Flanders #1-21

DST Test Number: 2

