



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

S3-13s-32w Logan, KS

202 W Main
Salem, IL 62881

Andersen #1-3

Job Ticket: 56675

DST#: 5

ATTN: Tim Priest

Test Start: 2014.08.15 @ 02:19:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:24:00

Time Test Ended: 09:44:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 61

Interval: 4457.00 ft (KB) To 4490.00 ft (KB) (TVD)

Total Depth: 4490.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3045.00 ft (KB)

3035.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8357 Inside

Press@RunDepth: 58.90 psig @ 4487.00 ft (KB)

Start Date: 2014.08.15

End Date:

2014.08.15

Start Time: 02:19:02

End Time:

09:44:10

Capacity: 8000.00 psig

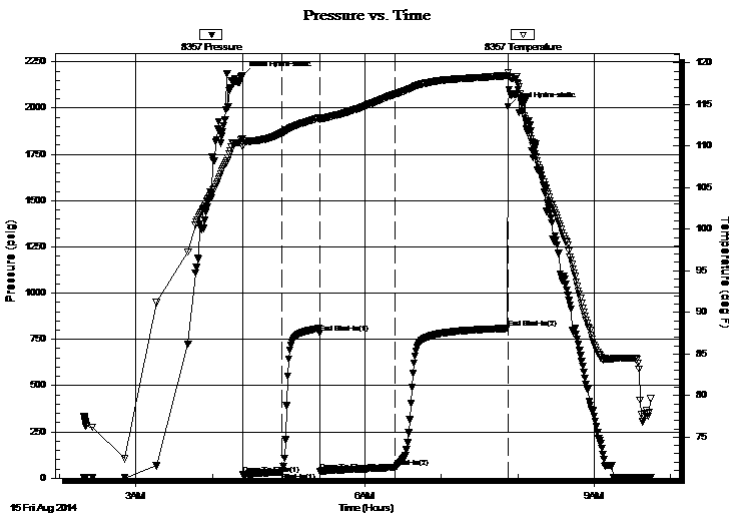
Last Calib.: 2014.08.15

Time On Btm: 2014.08.15 @ 04:23:50

Time Off Btm: 2014.08.15 @ 07:52:30

TEST COMMENT: 30: Weak surface blow build to 1/2"
30: No Return.
60: Weak surface blow .
90: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.54	110.86	Initial Hydro-static
1	19.40	109.90	Open To Flow (1)
31	31.99	111.55	Shut-In(1)
61	783.25	113.36	End Shut-In(1)
61	38.61	113.24	Open To Flow (2)
120	58.90	116.24	Shut-In(2)
209	809.74	118.47	End Shut-In(2)
209	2007.22	118.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	mud w ith oil spots	0.58

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Job Ticket: 56675

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ATTN: Tim Priest

Test Start: 2014.08.15 @ 02:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
118.00	mud w ith oil spots	0.580

Total Length: 118.00 ft Total Volume: 0.580 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

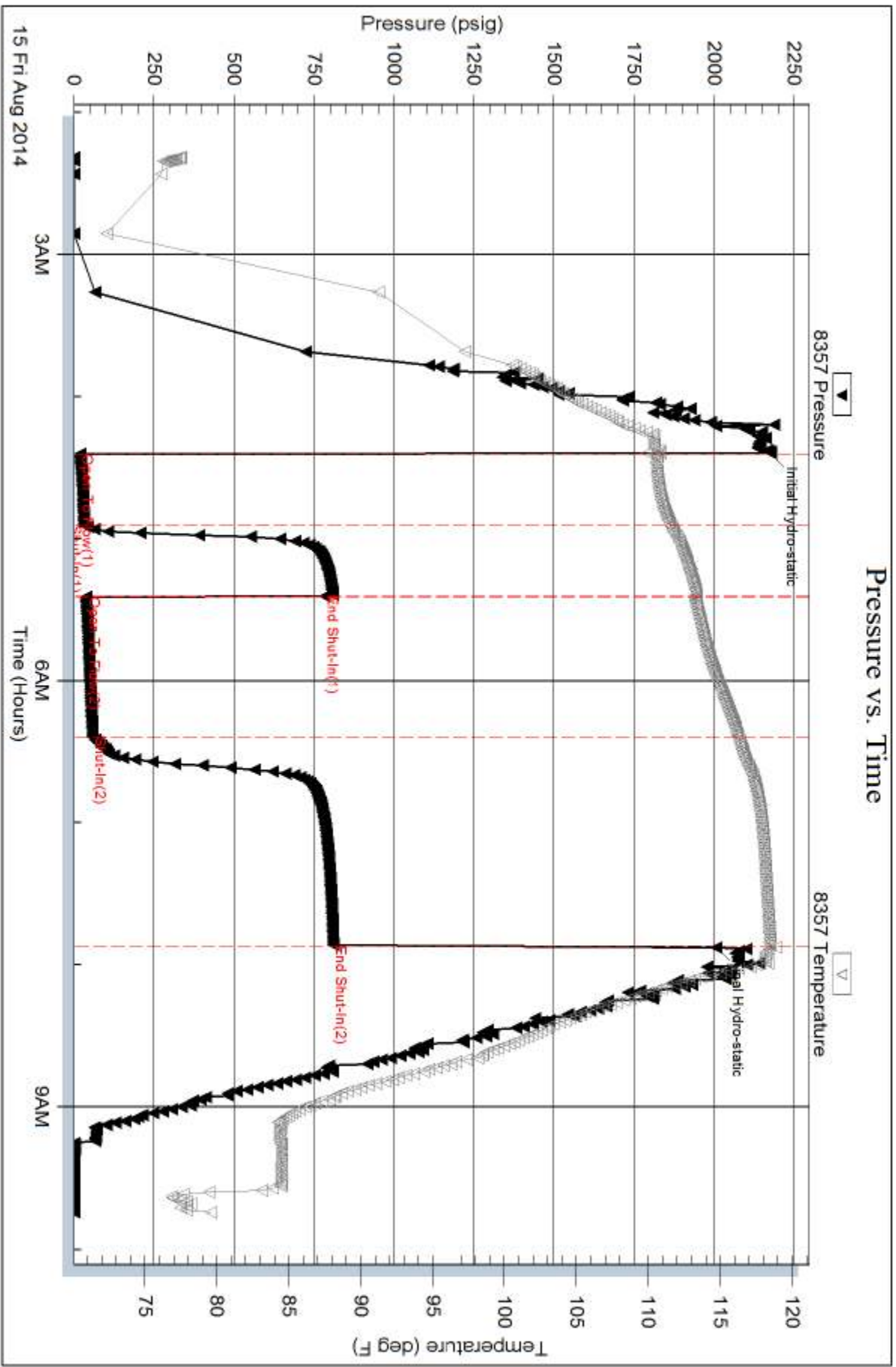
Serial #: 8357

Inside

Shakespeare Oil Co. Inc.

Andersen #1-3

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 56675

Printed: 2014.08.15 @ 10:45:46