



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc.

18-18s-25w Ness Co, KS

100 S Main STE 505
Wichita KS 67202 - 3738

Mauch "E" #1

Job Ticket: 57432

DST#: 2

ATTN: Jerry Smith

Test Start: 2014.09.09 @ 06:22:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:15

Time Test Ended: 13:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4350.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2539.00 ft (KB)

Total Depth: 4481.00 ft (KB) (TVD)

2532.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8365 Outside

Press @ Run Depth: 55.49 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.09

End Date: 2014.09.09

Last Calib.: 2014.09.09

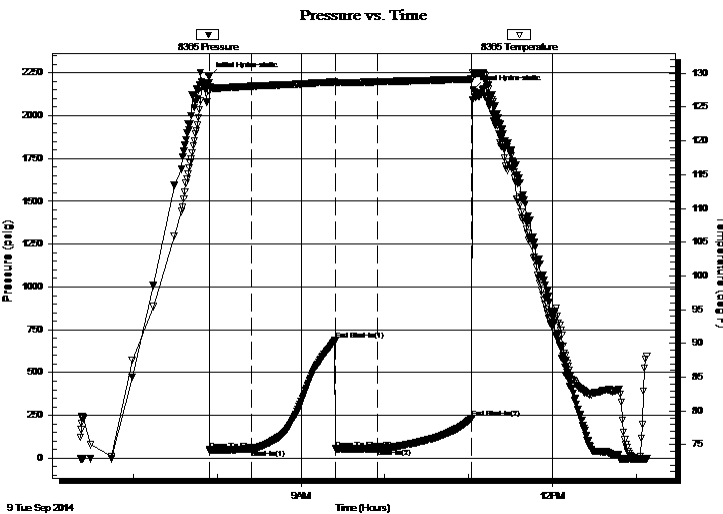
Start Time: 06:22:05

End Time: 13:07:29

Time On Btm: 2014.09.09 @ 07:54:00

Time Off Btm: 2014.09.09 @ 11:03:15

TEST COMMENT: IF: 1" Blow.
IS: No Return
FF: 1/2" Blow
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.23	128.68	Initial Hydro-static
1	47.75	127.32	Open To Flow (1)
31	54.22	128.09	Shut-In(1)
91	687.58	128.74	End Shut-In(1)
91	55.38	128.62	Open To Flow (2)
121	55.49	128.75	Shut-In(2)
189	234.00	129.13	End Shut-In(2)
190	2151.11	129.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 5o 95m	0.28

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc.

100 S Main STE 505
Wichita KS 67202 - 3738

ATTN: Jerry Smith

18-18s-25w Ness Co, KS

Mauch "E" #1

Job Ticket: 57432

DST#: 2

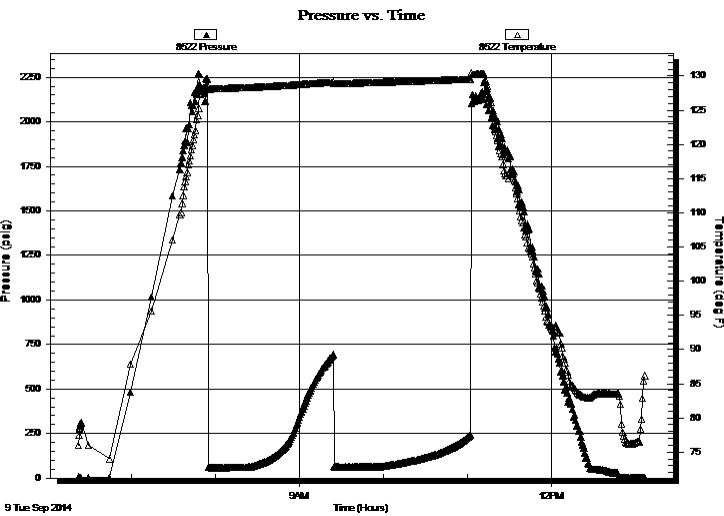
Test Start: 2014.09.09 @ 06:22:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:54:15 Tester: Bradley Walter
 Time Test Ended: 13:07:30 Unit No: 69
Interval: 4350.00 ft (KB) To 4430.00 ft (KB) (TVD) Reference Elevations: 2539.00 ft (KB)
 Total Depth: 4481.00 ft (KB) (TVD) 2532.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8522 Inside
 Press @ Run Depth: psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.09 End Date: 2014.09.09 Last Calib.: 2014.09.09
 Start Time: 06:22:05 End Time: 13:07:14 Time On Btm: Time Off Btm:

TEST COMMENT: IF: 1" Blow .
 IS: No Return
 FF: 1/2 " Blow
 FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 5o 95m	0.28

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc.

18-18s-25w Ness Co, KS100 S Main STE 505
Wichita KS 67202 - 3738**Mauch "E" #1**

Job Ticket: 57432

DST#: 2

ATTN: Jerry Smith

Test Start: 2014.09.09 @ 06:22:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:15

Time Test Ended: 13:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4350.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2539.00 ft (KB)

Total Depth: 4481.00 ft (KB) (TVD)

2532.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8677 Below (Straddle)

Press @RunDepth: psig @ 4445.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.09

End Date: 2014.09.09

Last Calib.: 2014.09.09

Start Time: 06:22:05

End Time: 13:06:14

Time On Btm:

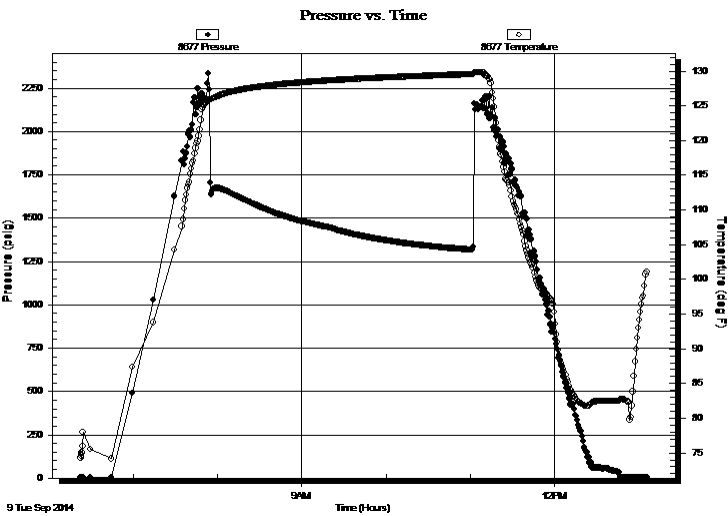
Time Off Btm:

TEST COMMENT: IF: 1" Blow .

IS: No Return

FF: 1/2 " Blow

FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 5o 95m	0.28

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company, Inc.

18-18s-25w Ness Co, KS

100 S Main STE 505
Wichita KS 67202 - 3738

Mauch "E" #1

Job Ticket: 57432

DST#: 2

ATTN: Jerry Smith

Test Start: 2014.09.09 @ 06:22:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 5o 95m	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

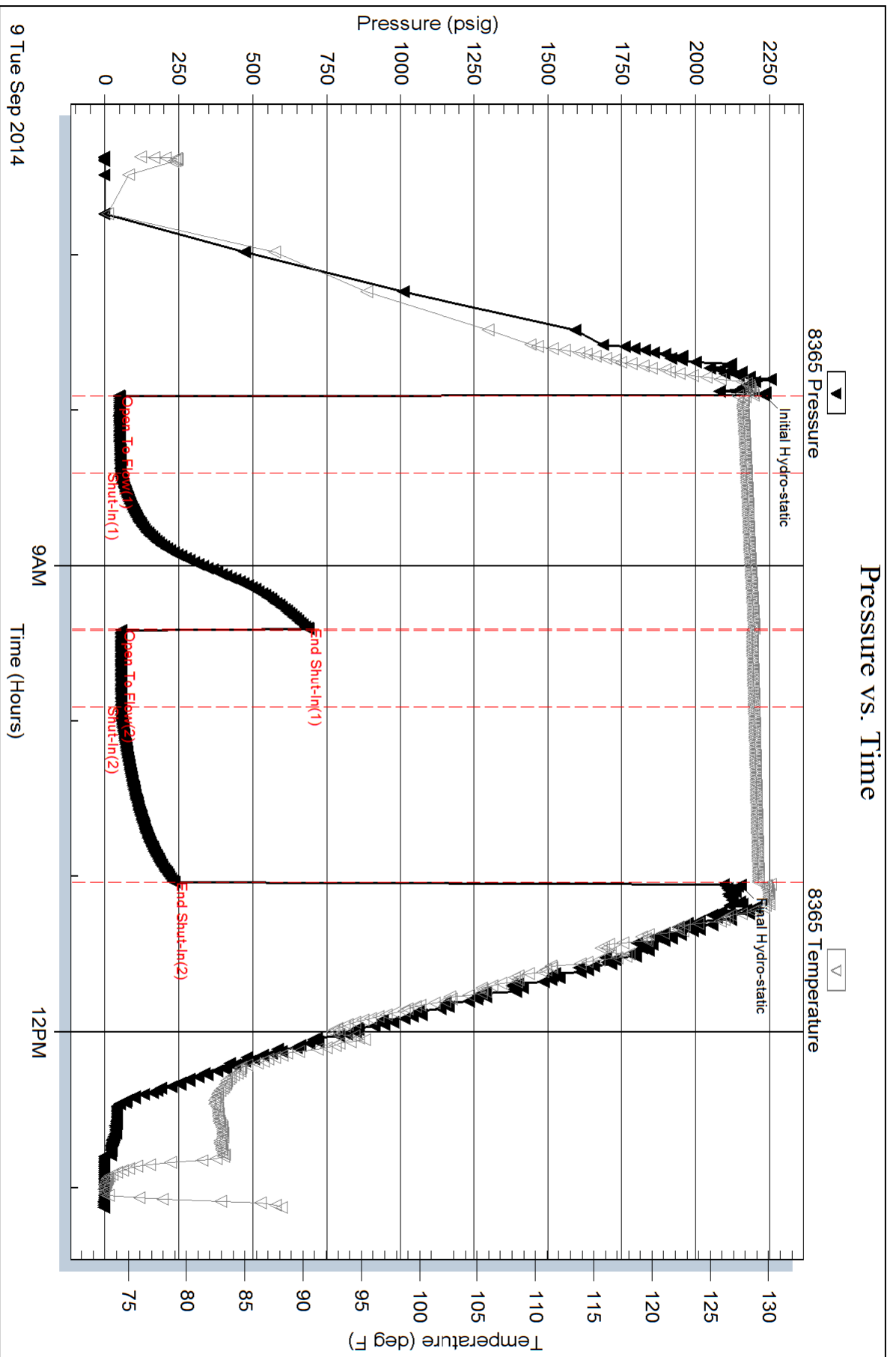
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



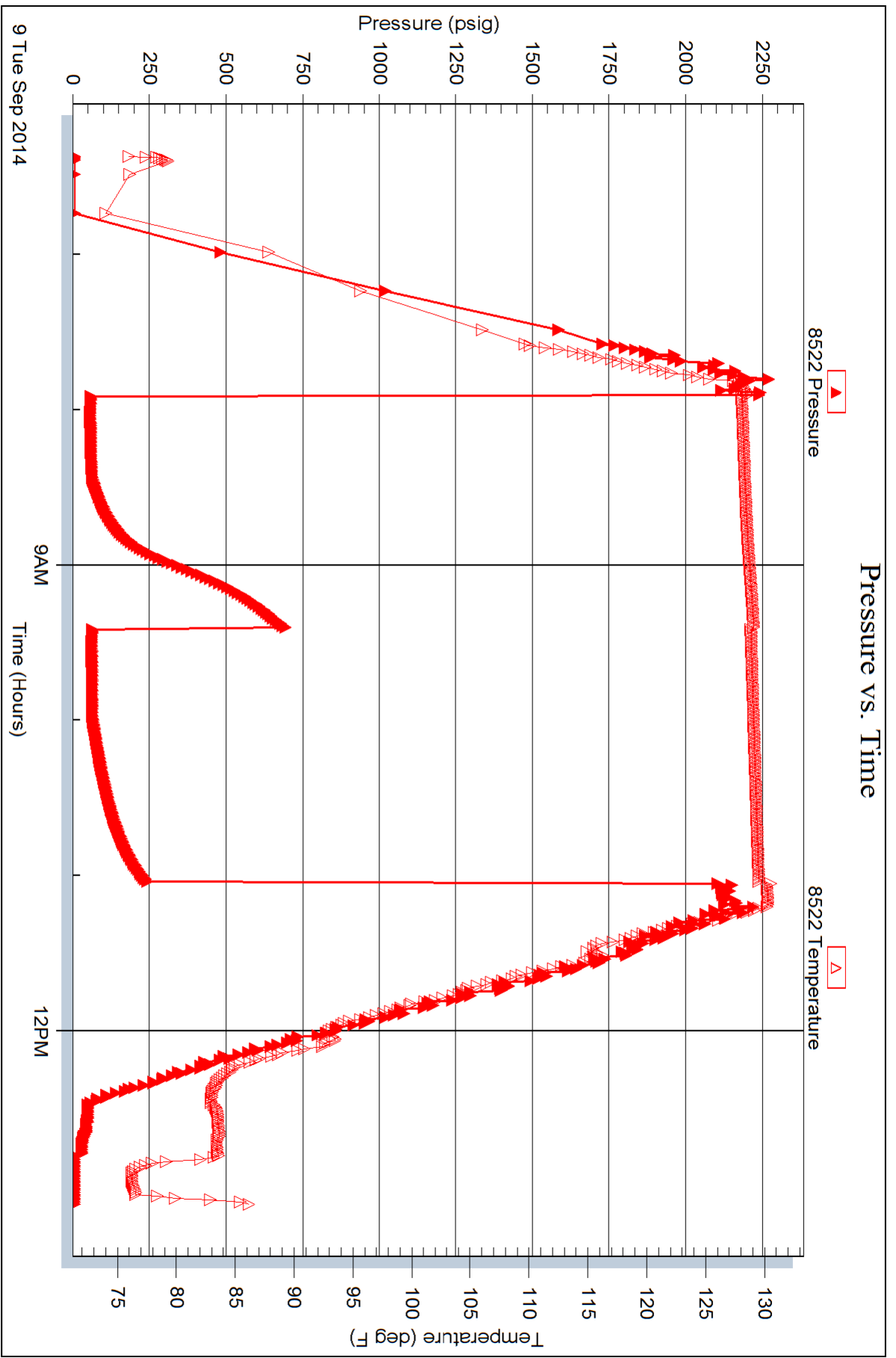
Serial #: 8522

Inside

Pickrell Drilling Company, Inc.

Mauch "E" #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57432

Printed: 2014.09.09 @ 15:04:02

