



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mid-Continent Energy Corp.

1-12S-16W Ellis, KS

105 S. Broadway
Ste. 360
Wichita, KS 67202
ATTN: Eii J. Felts

National Loan #4-1

Job Ticket: 63294

DST#: 4

Test Start: 2017.08.28 @ 13:33:16

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:01:16
 Tester: Brannan Lonsdale
 Time Test Ended: 20:48:46
 Unit No: 73
 Interval: **3082.00 ft (KB) To 3090.00 ft (KB) (TVD)**
 Reference Elevations: 1826.00 ft (KB)
 Total Depth: 3090.00 ft (KB) (TVD)
 1821.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

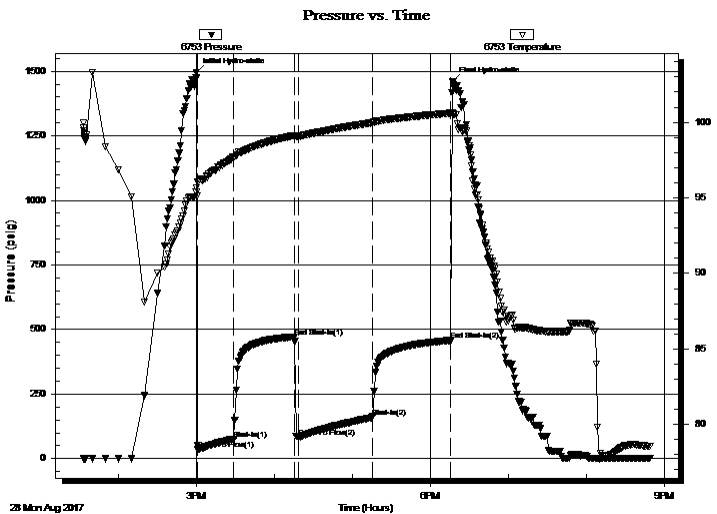
Serial #: 6753

Outside

Press@RunDepth: 159.60 psig @ 3087.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.28 End Date: 2017.08.28 Last Calib.: 2017.08.28
 Start Time: 13:33:21 End Time: 20:48:45 Time On Btm: 2017.08.28 @ 15:00:16
 Time Off Btm: 2017.08.28 @ 18:17:16

TEST COMMENT: 30- IF- BOB 2mins
 45- IS- BOB 5mins
 60- FF- BOB instantly Gasto surface 46mins
 60- FSI- BOB 6mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.67	95.68	Initial Hydro-static
1	35.64	96.02	Open To Flow (1)
28	74.87	97.64	Shut-In(1)
75	471.90	99.13	End Shut-In(1)
79	84.30	99.08	Open To Flow (2)
135	159.60	99.97	Shut-In(2)
196	457.75	100.61	End Shut-In(2)
197	1459.30	100.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	GWMCO, 15%G 50%O 5%W 30%M	0.60
126.00	GMCO, 30%G 60%O 10%M	1.79
220.00	CGO, 35%G 65%O	3.12
0.00	Gas to surface	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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National Loan #4-1

Job Ticket: 63294

DST#: 4

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
121.00	GWMCO, 15%G 50%O 5%W 30%M	0.595
126.00	GMCO, 30%G 60%O 10%M	1.786
220.00	CGO, 35%G 65%O	3.119
0.00	Gas to surface	0.000

Total Length: 467.00 ft

Total Volume: 5.500 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

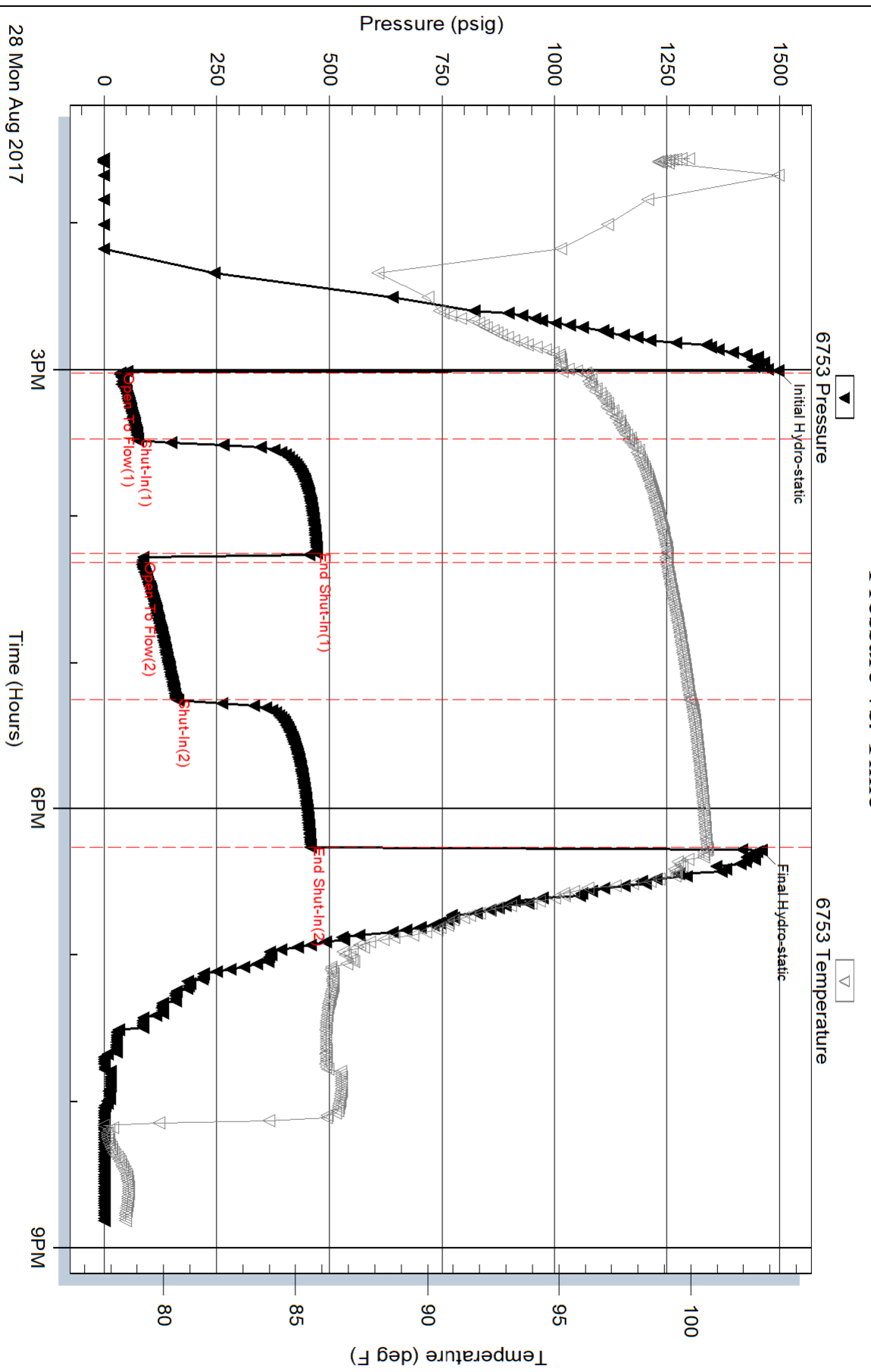
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .24@72deg

Pressure vs. Time



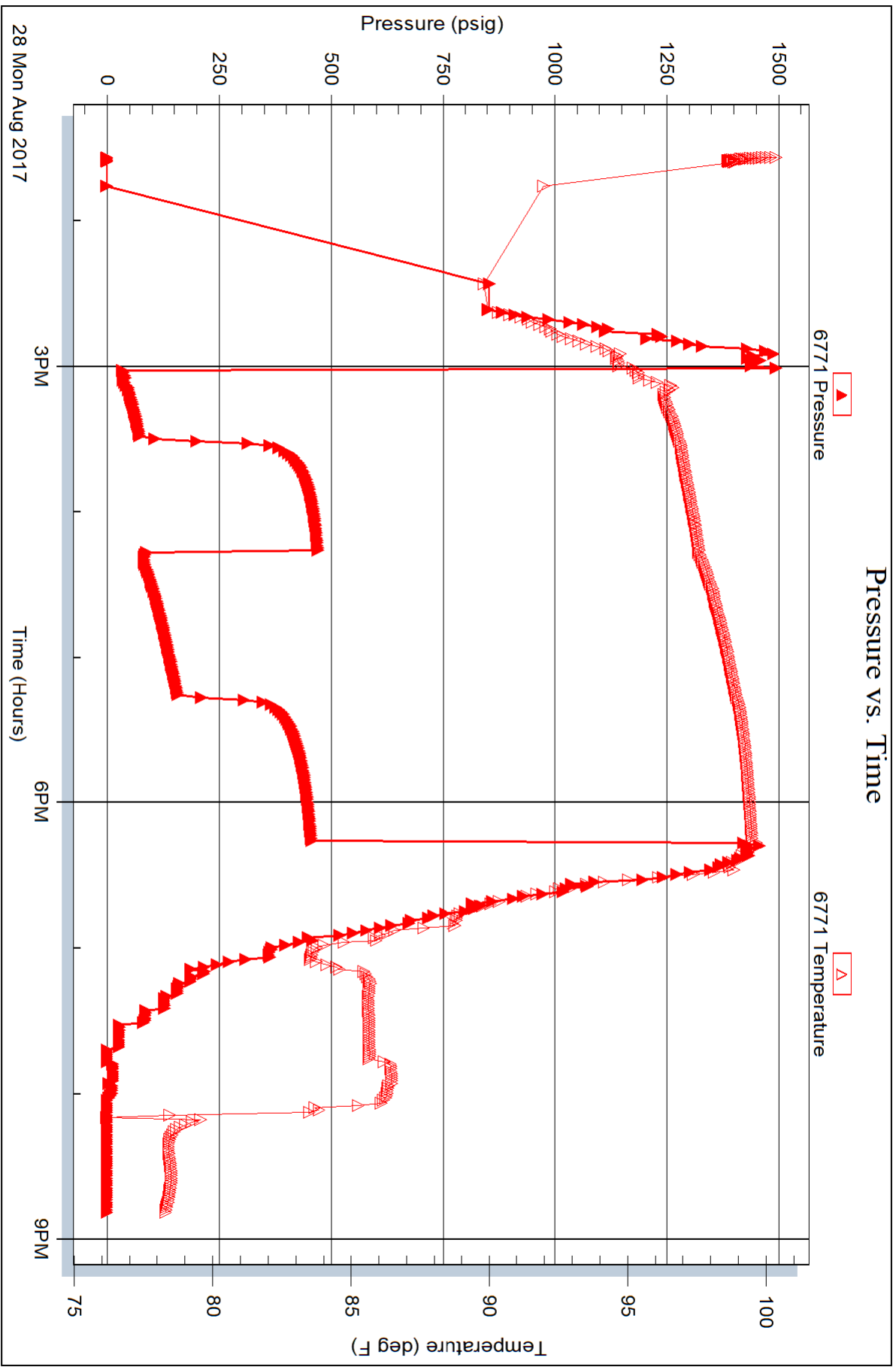
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Inside

Mtd-Continent Energy Corp.

National Loan #4-1

DST Test Number: 4



28 Mon Aug 2017

Trilobite Testing, Inc

Ref. No: 63294

Printed: 2017.08.28 @ 21:30:09