



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: 63295

DST#: 5

Test Start: 2017.08.29 @ 04:20:43

GENERAL INFORMATION:

Formation: **LKC "F&G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:55:13

Time Test Ended: 11:41:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3120.00 ft (KB) To 3142.00 ft (KB) (TVD)

Reference Elevations: 1826.00 ft (KB)

Total Depth: 3142.00 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: 149.02 psig @ 3139.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.08.29 End Date: 2017.08.29

Last Calib.: 2017.08.29

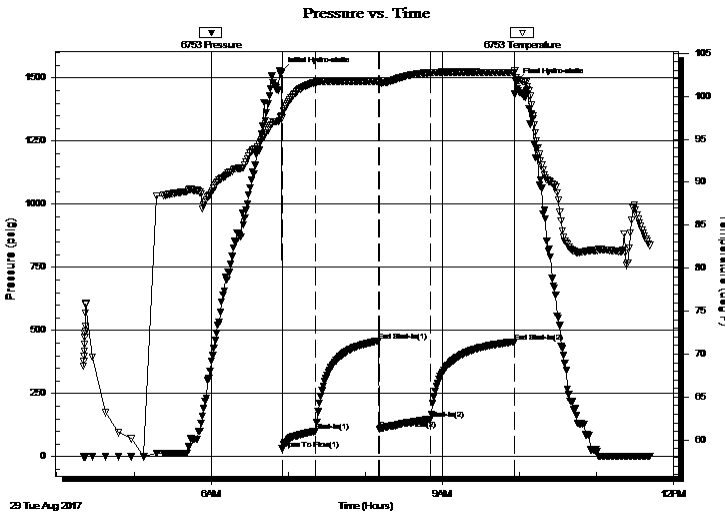
Start Time: 04:20:48 End Time: 11:41:42

Time On Btm: 2017.08.29 @ 06:54:43

Time Off Btm: 2017.08.29 @ 09:57:13

TEST COMMENT: 30- IF- BOB 13mins
45- IS- No blow
45- FF- BOB 16mins
60- FSI- Built to 1" in 14mins then slowly died back to .25"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.36	97.71	Initial Hydro-static
1	31.07	97.54	Open To Flow (1)
27	101.44	101.61	Shut-In(1)
76	457.74	101.69	End Shut-In(1)
76	108.97	101.57	Open To Flow (2)
116	149.02	102.75	Shut-In(2)
181	454.87	102.73	End Shut-In(2)
183	1483.56	102.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
228.00	SOCMW, 5%O 60%W 35%M	2.11
10.00	CO	0.14
0.00	20' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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National Loan #4-1

Job Ticket: 63295

DST#: 5

Test Start: 2017.08.29 @ 04:20:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 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
228.00	SOCMW, 5%O 60%W 35%M	2.112
10.00	CO	0.142
0.00	20' GIP	0.000

Total Length: 238.00 ft Total Volume: 2.254 bbl

Num Fluid Samples: 0

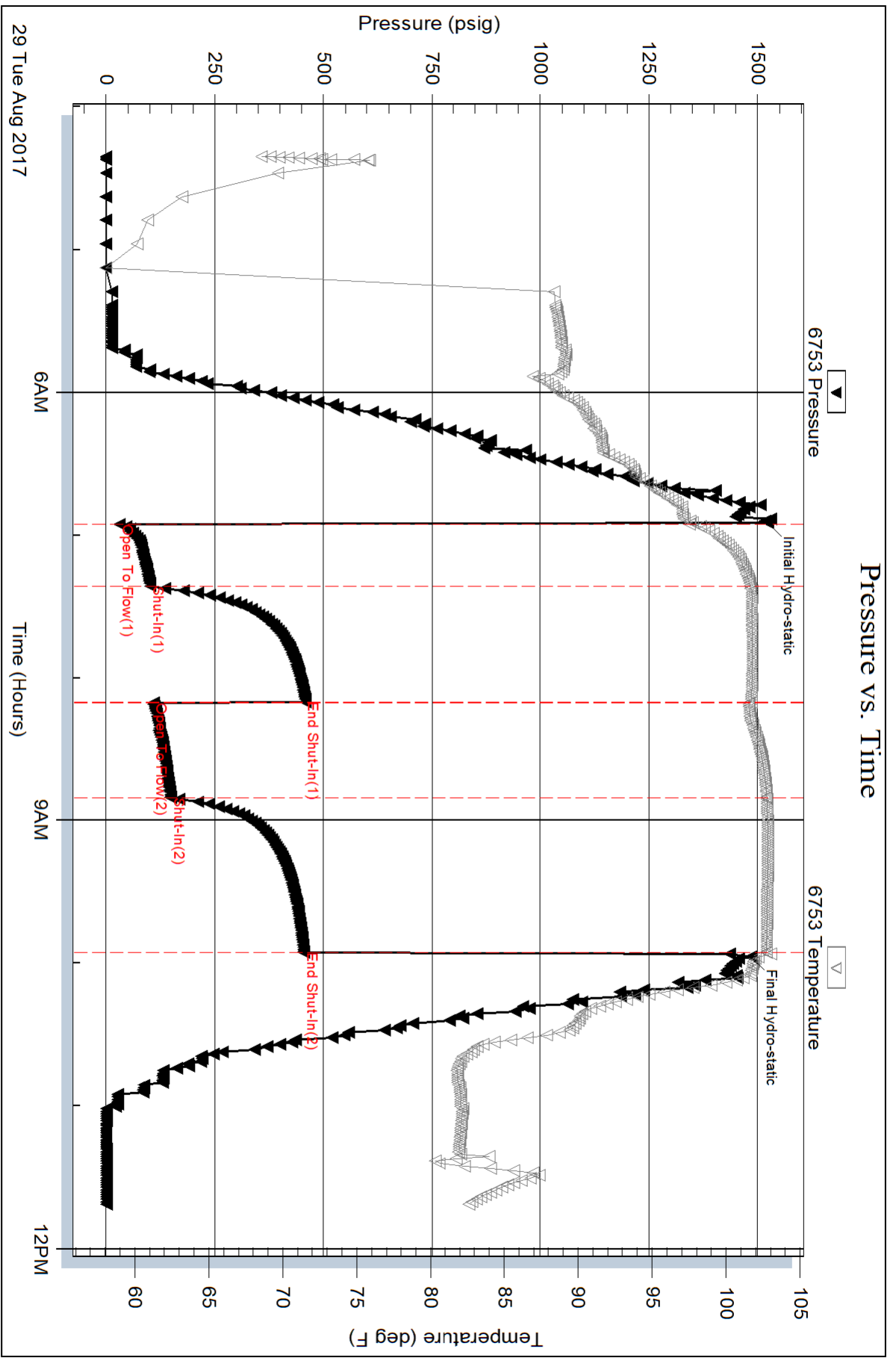
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .07@72deg



Serial #: 6771

Inside

Mtd- Continent Energy Corp.

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DST Test Number: 5

