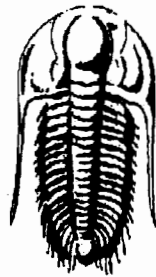


23-26s-18w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mid Continent Energy Corporation**

105 S Broadway Ste 360
Wichita KS 67202

ATTN: Ben Landes

23 26 18W Edwards KS

Derley#3

Start Date: 2007.04.26 @ 10:37:58

End Date: 2007.04.26 @ 23:26:28

Job Ticket #: 27015 DST #: 1

15-047-21555

NW SE NW

1650 FNL 1700 FWL

RECEIVED

KANSAS CORPORATION COMMISSION

SEP 24 2007

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mid Continent Energy Corporation

Derley#3

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

ATTN: Ben Landes

Job Ticket: 27015

DST#: 1

Test Start: 2007.04.26 @ 10:37:58

GENERAL INFORMATION:

Formation: **Kinderhook**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:56:28

Time Test Ended: 23:26:28

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4508.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2170.00 ft (KB)

2163.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8167 **Inside**

Press@RunDepth: 37.91 psig @ 4509.00 ft (KB)

Start Date: 2007.04.26

End Date: 2007.04.26

Start Time: 10:38:03

End Time: 23:26:28

Capacity: 7000.00 psig

Last Calib.: 2007.04.26

Time On Btm: 2007.04.26 @ 13:55:28

Time Off Btm: 2007.04.26 @ 18:00:12

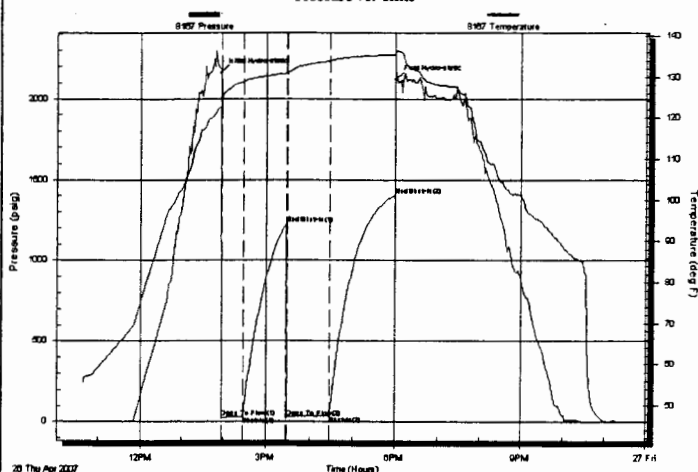
TEST COMMENT: IF Strong blow BOB in 2 mins.

ISI No blow

FF Strong blow BOB immediately GTS in 34 mins. (see gas flow report)

FSI Weak blow 1/4 "

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.75	122.62	Initial Hydro-static
1	24.69	123.15	Open To Flow (1)
32	33.97	128.90	Shut-In (1)
91	1224.03	130.77	End Shut-In (1)
92	25.63	130.52	Open To Flow (2)
152	37.91	133.93	Shut-In (2)
245	1404.34	135.41	End Shut-In (2)
245	2122.38	135.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	GCM 10%G 90%M	0.37
0.00	Gas in all fluid free pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	3.00	6.51
Max. Gas Rate	0.13	3.00	6.51



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid Continent Energy Corporation

Derley#3

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

Job Ticket: 27015

DST#: 1

ATTN: Ben Landes

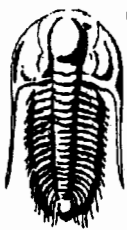
Test Start: 2007.04.26 @ 10:37:58

Tool Information

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 96000.00 lb
		Total Volume: 61.38 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4508.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4481.00	
Shut in Tool	5.00			4486.00	
Hydraulic tool	5.00			4491.00	
Jars	5.00			4496.00	
Safety Joint	3.00			4499.00	
Packer	4.00			4503.00	28.00 Bottom Of Top Packer
Packer	5.00			4508.00	
Stubb	1.00			4509.00	
Recorder	0.00	8167	Inside	4509.00	
Perforations	4.00			4513.00	
Change Over Sub	1.00			4514.00	
Blank Spacing	63.00			4577.00	
Change Over Sub	1.00			4578.00	
Perforations	17.00			4595.00	
Recorder	0.00	11019	Outside	4595.00	
Bullnose	5.00			4600.00	92.00 Bottom Packers & Anchor
Total Tool Length:		120.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid Continent Energy Corporation

Derley#3

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

Job Ticket: 27015

DST#: 1

ATTN: Ben Landes

Test Start: 2007.04.26 @ 10:37:58

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:

7000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	GCM 10%G 90%M	0.369
0.00	Gas in all fluid free pipe	0.000

Total Length: 75.00 ft

Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Mid Continent Energy Corporation

Derley#3

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

Job Ticket: 27015

DST#: 1

ATTN: Ben Landes

Test Start: 2007.04.26 @ 10:37:58

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	40	0.13	1.00	5.76
2	40	0.13	1.00	5.76
2	50	0.13	3.00	6.51

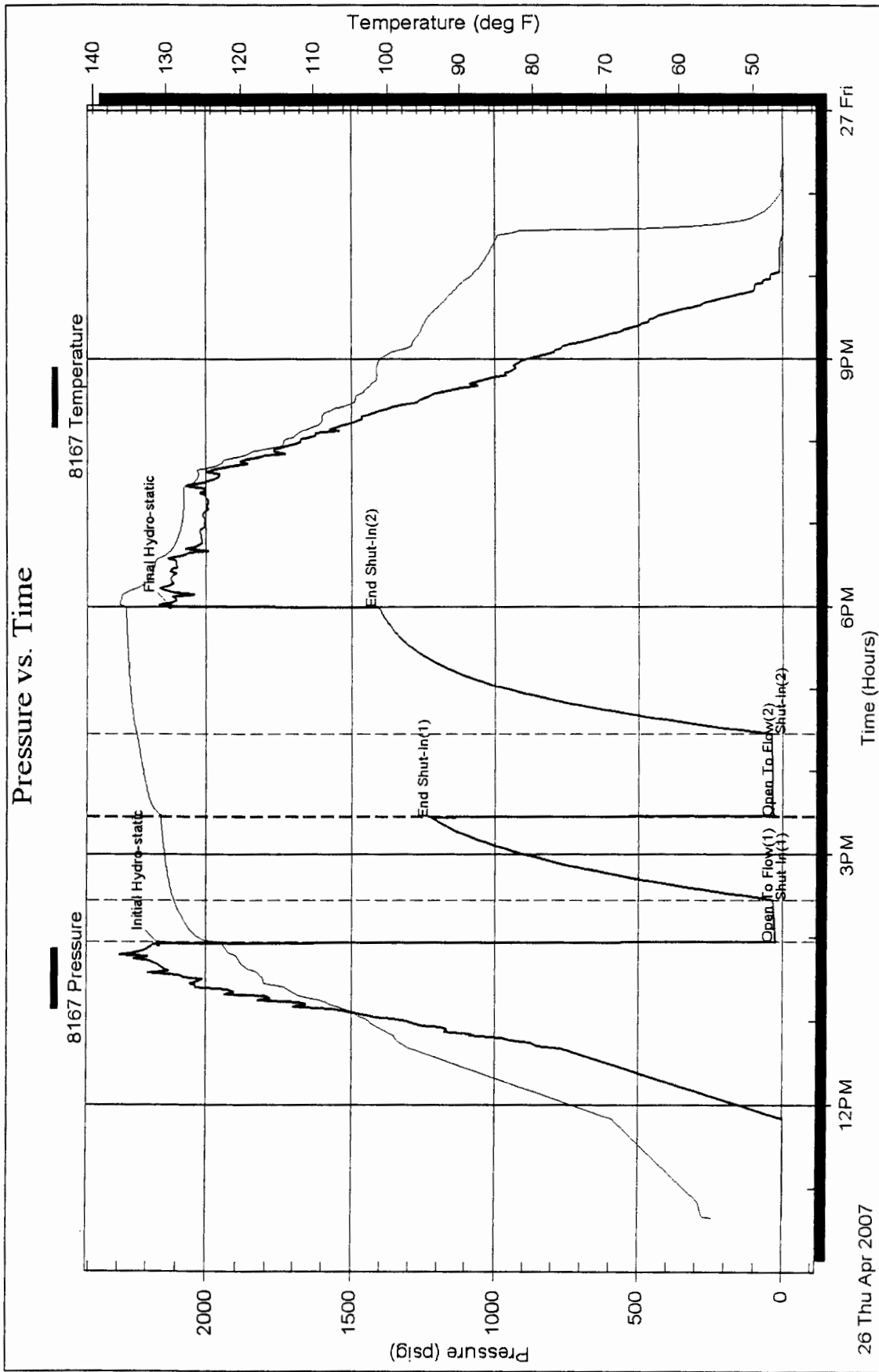
Serial #: 8167

Inside

Md Continent Energy Corporation

23 26 18W Edwards KS

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27010

Test Ticket

Well Name & No.	<u>Durley #3</u>	Test No.	<u>1</u>	Date	<u>4-26-07</u>
Company	<u>Midcontinent Energy Corp.</u>	Zone Tested	<u>Kinderhook</u>		
Address	<u>105 S. Broadway, Ste. 300, Wichita, Ks 67202</u>	Elevation	<u>2170</u>	KB	<u>2163</u>
Co. Rep / Geo.	<u>Ben Landes</u>	Rig	<u>Warren Dlg. #17</u>		
Location: Sec.	<u>23</u>	Twp.	<u>26S</u>	Rge.	<u>18W</u>
		Co.	<u>Edwards</u>	State	<u>Ks.</u>
Comment:	Release date / time:				

Interval Tested	<u>4508 - 4600'</u>	Initial Str Wt./Lbs.	<u>63,000</u>	Unseated Str Wt./Lbs.	<u>64,000</u>
Anchor Length	<u>92'</u>	Wt. Set Lbs.	<u>23,000</u>	Wt. Pulled Loose/Lbs.	<u>96,000</u>
Top Packer Depth	<u>4503'</u>	Tool Weight	<u>2100#</u>		
Bottom Packer Depth	<u>4508'</u>	Hole Size	<u>7 7/8" ✓</u>	Rubber Size	<u>6 3/4" ✓</u>
Total Depth	<u>4600'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>180</u>
Mud Wt.	<u>9.4</u> LCM <u>3#</u> Vis. <u>SS</u> WL <u>10.2cc</u>	Drill Pipe Size	<u>4 1/2"</u>	Ft. Run	<u>4312</u>
Blow Description	<u>IF: Strong blow. B.O.B. in 2 mins. ISI: N. below.</u>				

PF: Strong blow. B.O.B. immediately. GTS in 34 mins (see gas flow report)
FSI: Weak blow. 1/4".

Recovery - Total Feet	<u>75</u>	GIP	<u>yes</u>	Ft. in DC	<u>75</u>	Ft. in DP	<u>0</u>
Rec.	<u>75</u>	Feet of	<u>ECM</u>	<u>10</u>	%gas	%oil	%water <u>90</u> %mud
Rec.		Feet of			%gas	%oil	%water %mud
Rec.		Feet of			%gas	%oil	%water %mud
Rec.		Feet of			%gas	%oil	%water %mud
Rec.		Feet of			%gas	%oil	%water %mud
BHT	<u>135</u>	'F Gravity	<u>N/A</u>	'API D @	<u>2</u>	'F Corrected Gravity	<u>N/A</u> 'API
RW	<u>N.C.</u>	@	<u>~</u>	'F Chlorides	<u>7,000</u> ppm	Recovery	Chlorides <u>7,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2187 PSI	Recorder No.	<u>8167</u>	Test	<u>✓ 1200</u>
(B) First Initial Flow Pressure			<u>25</u> PSI	(depth)	<u>4509'</u>	Jars	<u>✓ 250</u>
(C) First Final Flow Pressure			<u>34</u> PSI	Recorder No.	<u>11019</u>	Safety Jt.	<u>✓ 75</u>
(D) Initial Shut-In Pressure			<u>1224</u> PSI	(depth)	<u>4595'</u>	Circ Sub	
(E) Second Initial Flow Pressure			<u>26</u> PSI	Recorder No.	<u>~</u>	Sampler	
(F) Second Final Flow Pressure			<u>38</u> PSI	(depth)	<u>~</u>	Straddle	
(G) Final Shut-In Pressure			<u>1404</u> PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud			<u>2135</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer	

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Approved By _____

Our Representative Gary P. [Signature]

Final Flow	<u>60</u>	Ruined Packer	
Final Shut-In	<u>90</u>	Mileage	<u>110</u>
T-On Location	<u>0940</u>	Sub Total:	<u>1635</u>
T-Started	<u>1037</u>	Std. By	<u>375 375^{ex}</u>
T-Open	<u>1356</u>	Acc. Chg:	
T-Pulled	<u>1803</u>	Other:	
T-Out	<u>2326</u>	Total:	<u>\$2030^{ex}</u>



GAS VOLUME REPORT

Midcontinent Energy Corp.

OPERATOR

Derley #3

WELL NAME AND NO.

DST NO.

Initial O_{2m}

Final Open

Remarks:

CHART PAGE
This is a photocopy of the actual AK-1 recorder chart.

