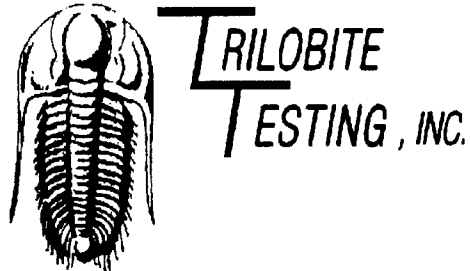


23-26s-18w

15-047-21553 Mid-Continent Energy Corporation



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KANSAS CORPORATION COMMISSION

SEP 24 2007

CONSERVATION DIVISION
WICHITA, KS

DRILL STEM TEST REPORT

Prepared For: **Mid-Continent Energy Corporation**

105 S Broadway Ste 360
Wichita KS67202

ATTN: Ben Landes

23 26 18W Edwards KS

Derley #2

Start Date: 2007.04.10 @ 20:57:02

End Date: 2007.04.11 @ 06:30:02

Job Ticket #: 27009 DST #: 1

15-047-21553

SE NW SE NW

1667 FNL 1775 FWL

Derley #2

23 26 18W Edwards KS

DST # 1

Lans. KC

2007.04.10

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 27009

DST#: 1

ATTN: Ben Landes

Test Start: 2007.04.10 @ 20:57:02

Tool Information

Drill Pipe:	Length: 3949.00 ft	Diameter: 3.80 inches	Volume: 55.39 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: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 77000.00 lb
		Total Volume: 55.98 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4080.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 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			4053.00	
Shut In Tool	5.00			4058.00	
Hydraulic tool	5.00			4063.00	
Jars	5.00			4068.00	
Safety Joint	3.00			4071.00	
Packer	4.00			4075.00	28.00 Bottom Of Top Packer
Packer	5.00			4080.00	
Stubb	1.00			4081.00	
Recorder	0.00	8167	Inside	4081.00	
Perforations	30.00			4111.00	
Recorder	0.00	11019	Outside	4111.00	
Bullnose	5.00			4116.00	36.00 Bottom Packers & Anchor

Total Tool Length: 64.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 27009

DST#: 1

ATTN: Ben Landes

Test Start: 2007.04.10 @ 20:57:02

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: 101000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
182.00	MW w/O specs 5%M 95W Rw .11 OHMS@51	1.460
124.00	GOCMW 8%G 8%O 28%M 56%W	1.739
100.00	GOCM 20%G 16%O 64%M	1.403
0.00	Gas in all fluid free pipe	0.000

Total Length: 406.00 ft

Total Volume: 4.602 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

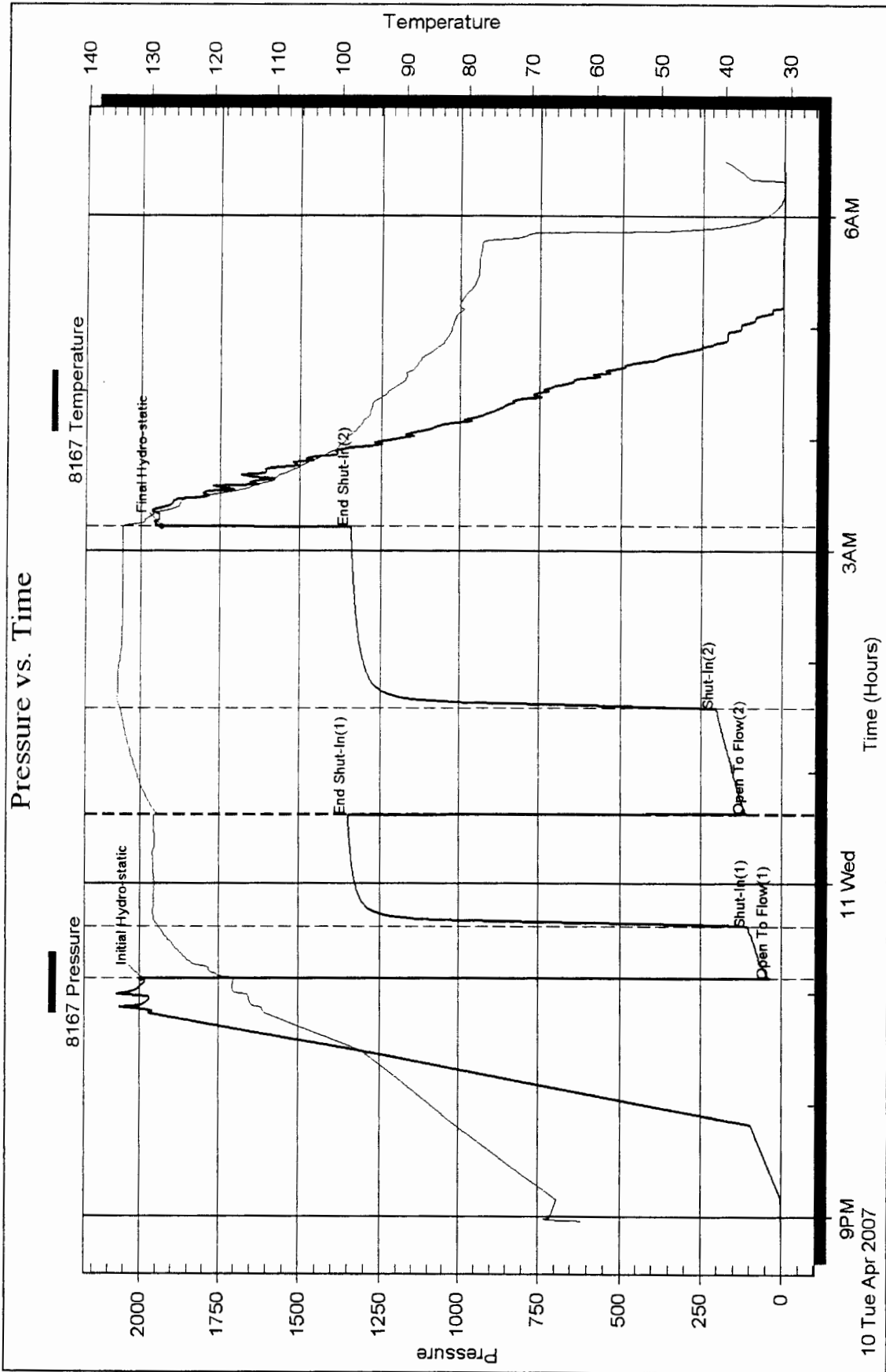
Inside

Md-Continent Energy Corporation

23 26 18W Edwards KS

DST Test Number: 1

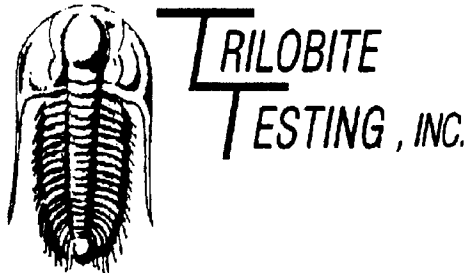
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 27009

Printed: 2007.04.17 @ 10:54:54 Page 5



DRILL STEM TEST REPORT

Prepared For: **Mid-Continent Energy Corporation**

105 S Broadway Ste 360
Wichita KS67202

ATTN: Ben Landes

23 26 18W Edwards KS

Derley #2

Start Date: 2007.04.11 @ 17:08:53

End Date: 2007.04.12 @ 03:19:08

Job Ticket #: 27010 DST #: 2

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 #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 27010

DST#: 2

ATTN: Ben Landes

Test Start: 2007.04.11 @ 17:08:53

GENERAL INFORMATION:

Formation: **Lans. KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:26:23

Time Test Ended: 03:19:08

Interval: **4118.00 ft (KB) To 4175.00 ft (KB) (TVD)**

Total Depth: 4175.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Reference Elevations: 2170.00 ft (KB)

2163.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8167

Inside

Press@RunDepth: 404.35 psig @ 4119.00 ft (KB)

Start Date: 2007.04.11

End Date: 2007.04.12

Capacity: 7000.00 psig

Last Calib.: 2007.04.12

Start Time: 17:08:58

End Time: 03:19:08

Time On Btm: 2007.04.11 @ 20:22:38

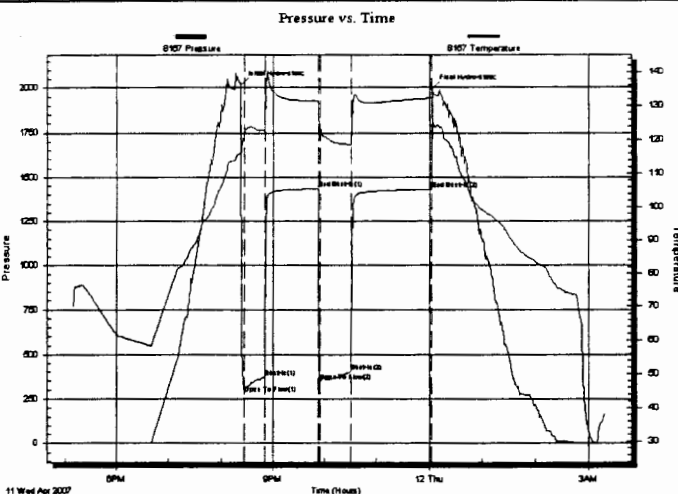
Time Off Btm: 2007.04.12 @ 00:03:22

TEST COMMENT: IF Strong blow GTS in 3 mins.(see gas flow report)

ISI Weak blow 1 - 3 "

FF Strong blow (see gas flow report)

FSI Weak blow 1 - 3 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.81	116.14	Initial Hydro-static
4	275.36	120.99	Open To Flow (1)
28	367.66	122.73	Shut-In(1)
90	1432.72	131.44	End Shut-In(1)
92	346.66	122.29	Open To Flow (2)
129	404.35	118.43	Shut-In(2)
221	1429.08	132.29	End Shut-In(2)
221	1993.83	131.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	GCMV 10%G 15%M 75%W Rw .10 OH 2.34 54 deg	
220.00	GCM 39%G 61%M	3.09

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	50.00	1005.92
Last Gas Rate	0.75	61.00	1177.74
Max. Gas Rate	0.75	66.00	1255.84



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 27010

DST#: 2

ATTN: Ben Landes

Test Start: 2007.04.11 @ 17:08:53

Tool Information

Drill Pipe:	Length: 3981.00 ft	Diameter: 3.80 inches	Volume: 55.84 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: 26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 78000.00 lb
		Total Volume:	56.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4118.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			4091.00	
Shut In Tool	5.00			4096.00	
Hydraulic tool	5.00			4101.00	
Jars	5.00			4106.00	
Safety Joint	3.00			4109.00	
Packer	4.00			4113.00	28.00 Bottom Of Top Packer
Packer	5.00			4118.00	
Stubb	1.00			4119.00	
Recorder	0.00	8167	Inside	4119.00	
Perforations	5.00			4124.00	
Change Over Sub	1.00			4125.00	
Blank Spacing	30.00			4155.00	
Change Over Sub	1.00			4156.00	
Perforations	14.00			4170.00	
Recorder	0.00	11019	Outside	4170.00	
Bullnose	5.00			4175.00	57.00 Bottom Packers & Anchor
Total Tool Length:		85.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 27010

DST#: 2

ATTN: Ben Landes

Test Start: 2007.04.11 @ 17:08:53

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:

97000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	GCMW 10%G 15%M 75%W Rw .10 OHMS@	2.344
220.00	GCM 39%G 61%M	3.086

Total Length: 465.00 ft

Total Volume: 5.430 bbl

Num Fluid Samples: 0

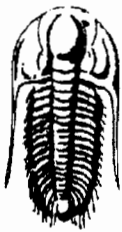
Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 27010

DST#: 2

ATTN: Ben Landes

Test Start: 2007.04.11 @ 17:08:53

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)
1	10	0.75	50.00	1005.92
1	10	0.75	50.00	1005.92
1	20	0.75	61.00	1177.74
1	30	0.75	63.00	1208.98
2	10	0.75	63.00	1208.98
2	20	0.75	66.00	1255.84
2	30	0.75	61.00	1177.74

Serial #: 8167

Inside

Md-Continent Energy Corporation

23 26 18W Edw ards KS

DST Test Number: 2

Pressure vs. Time

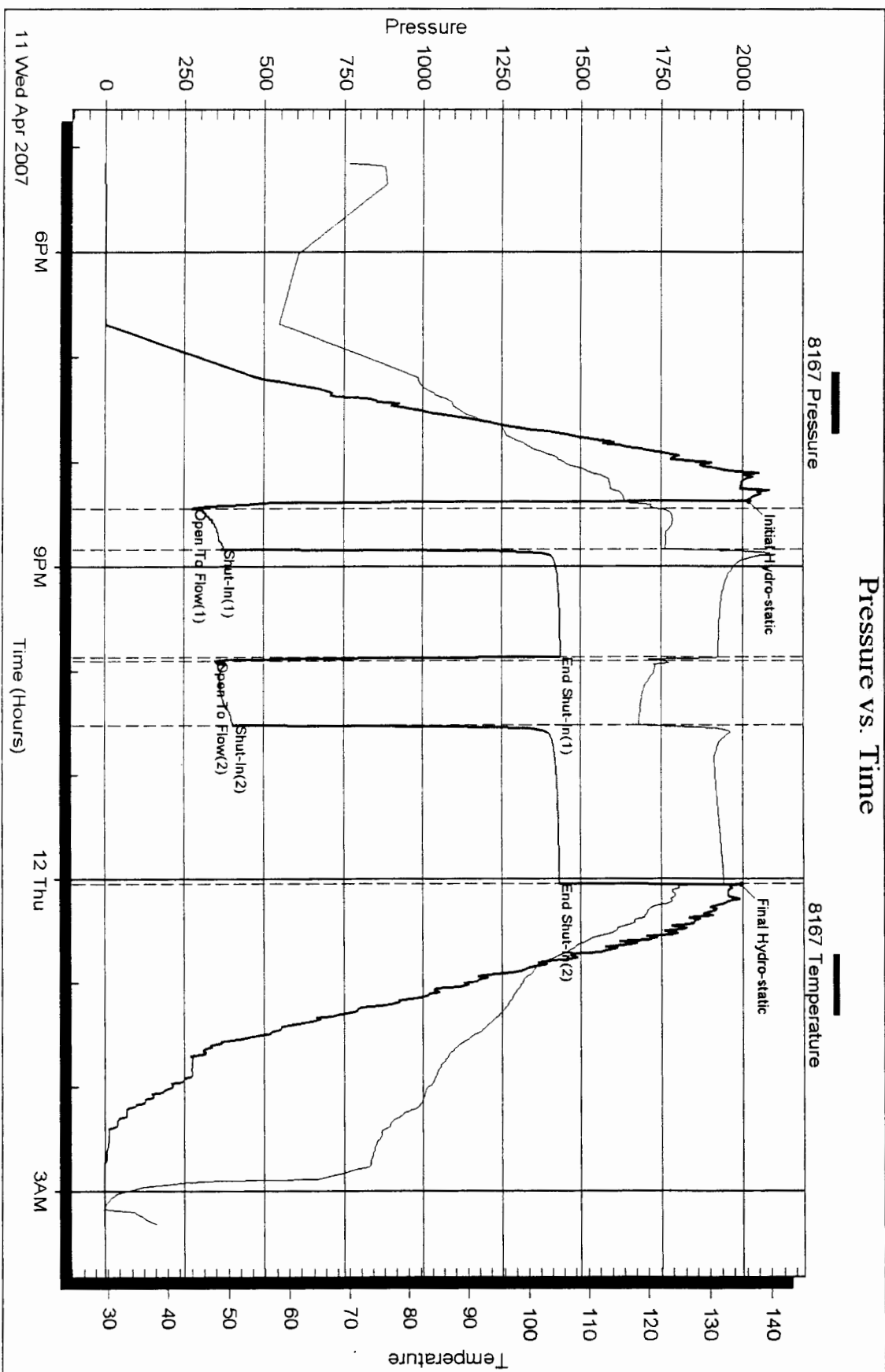
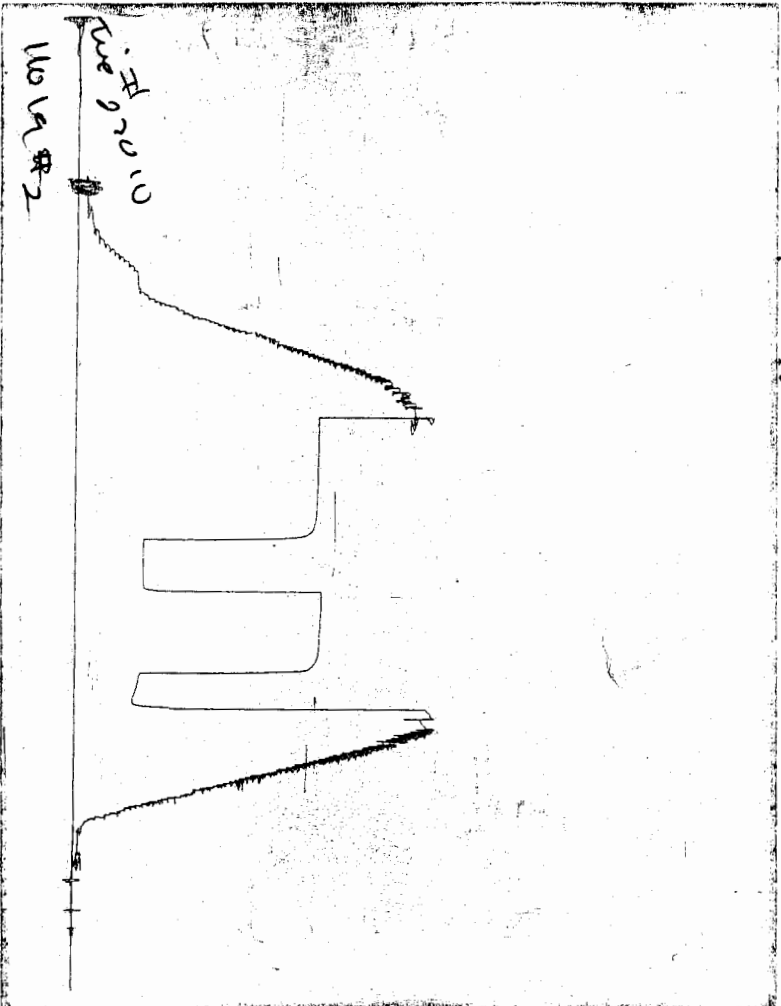
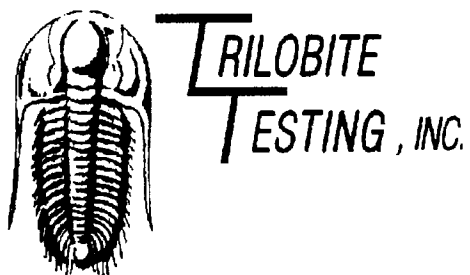


CHART PAGE

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





DRILL STEM TEST REPORT

Prepared For: **Mid-Continent Energy Corporation**

105 S Broadway Ste 360
Wichita KS67202

ATTN: Ben Landes

23 26 18W Edwards KS

Derley #2

Start Date: 2007.04.12 @ 13:38:22

End Date: 2007.04.12 @ 23:05:37

Job Ticket #: 20711 DST #: 3

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 #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 20711

DST#: 3

ATTN: Ben Landes

Test Start: 2007.04.12 @ 13:38:22

GENERAL INFORMATION:

Formation: **Lans. KC**

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

Time Tool Opened: 15:58:37

Time Test Ended: 23:05:37

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **4200.00 ft (KB) To 4229.00 ft (KB) (TVD)**

Total Depth: **4229.00 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: **331.54 psig @ 4201.00 ft (KB)**

Start Date: **2007.04.12**

End Date: **2007.04.12**

Capacity: **7000.00 psig**

Last Calib.: **2007.04.12**

Start Time: **13:38:27**

End Time: **23:05:37**

Time On Btm: **2007.04.12 @ 15:56:52**

Time Off Btm: **2007.04.12 @ 19:46:21**

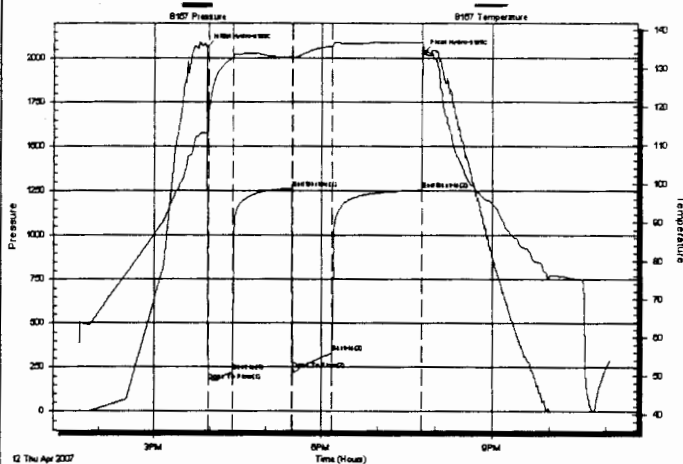
TEST COMMENT: IF Strong blow GTS in 3.3 mins.(see gas flow report)

ISI Weak blow 2 - 3 1/2 "

FF Strong blow (see gas flow report)

FSI Weak blow 1 - 3 "

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.88	113.41	Initial Hydro-static
2	171.00	119.07	Open To Flow(1)
28	225.37	132.91	Shut-In(1)
91	1264.05	133.08	End Shut-In(1)
92	233.17	132.66	Open To Flow(2)
134	331.54	135.93	Shut-In(2)
229	1255.48	136.88	End Shut-In(2)
230	2026.84	137.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
255.00	SW Rw .13 OHMS@55 deg.	2.48
125.00	GCMW 13%G 27%M 60%W	1.75
125.00	GCM 36%G 64%M	1.75

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	24.00	259.04
Last Gas Rate	0.50	36.00	339.98
Max. Gas Rate	0.50	36.00	339.98



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 20711

DST#: 3

ATTN: Ben Landes

Test Start: 2007.04.12 @ 13:38:22

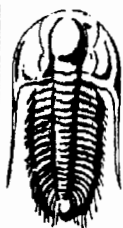
Tool Information

Drill Pipe:	Length: 4070.00 ft	Diameter: 3.80 inches	Volume: 57.09 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:	26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 57.68 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4200.00 ft			Final	64500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	57.00 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			4173.00	
Shut In Tool	5.00			4178.00	
Hydraulic tool	5.00			4183.00	
Jars	5.00			4188.00	
Safety Joint	3.00			4191.00	
Packer	4.00			4195.00	28.00 Bottom Of Top Packer
Packer	5.00			4200.00	
Stubb	1.00			4201.00	
Recorder	0.00	8167	Inside	4201.00	
Perforations	23.00			4224.00	
Recorder	0.00	11019	Outside	4224.00	
Bullnose	5.00			4229.00	29.00 Bottom Packers & Anchor

Total Tool Length: 57.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 20711

DST#: 3

ATTN: Ben Landes

Test Start: 2007.04.12 @ 13:38:22

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:

88000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
255.00	SW Rw .13 OHMS@55 deg.	2.484
125.00	GCMW 13%G 27%M 60%W	1.753
125.00	GCM 36%G 64%M	1.753

Total Length: 505.00 ft

Total Volume: 5.990 bbl

Num Fluid Samples: 0

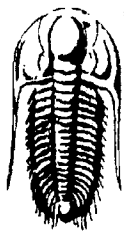
Num Gas Bombs: 0

Serial #: H2s in gas

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS67202

23 26 18W Edwards KS

Job Ticket: 20711

DST#: 3

ATTN: Ben Landes

Test Start: 2007.04.12 @ 13:38:22

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 (m³/d)
1	10	0.50	24.00	259.04
1	10	0.50	24.00	259.04
1	20	0.50	31.00	306.25
1	30	0.50	36.00	339.98
2	10	0.50	35.00	333.24
2	20	0.50	36.00	339.98
2	30	0.50	36.00	339.98
2	40	0.50	36.00	339.98

Pressure vs. Time

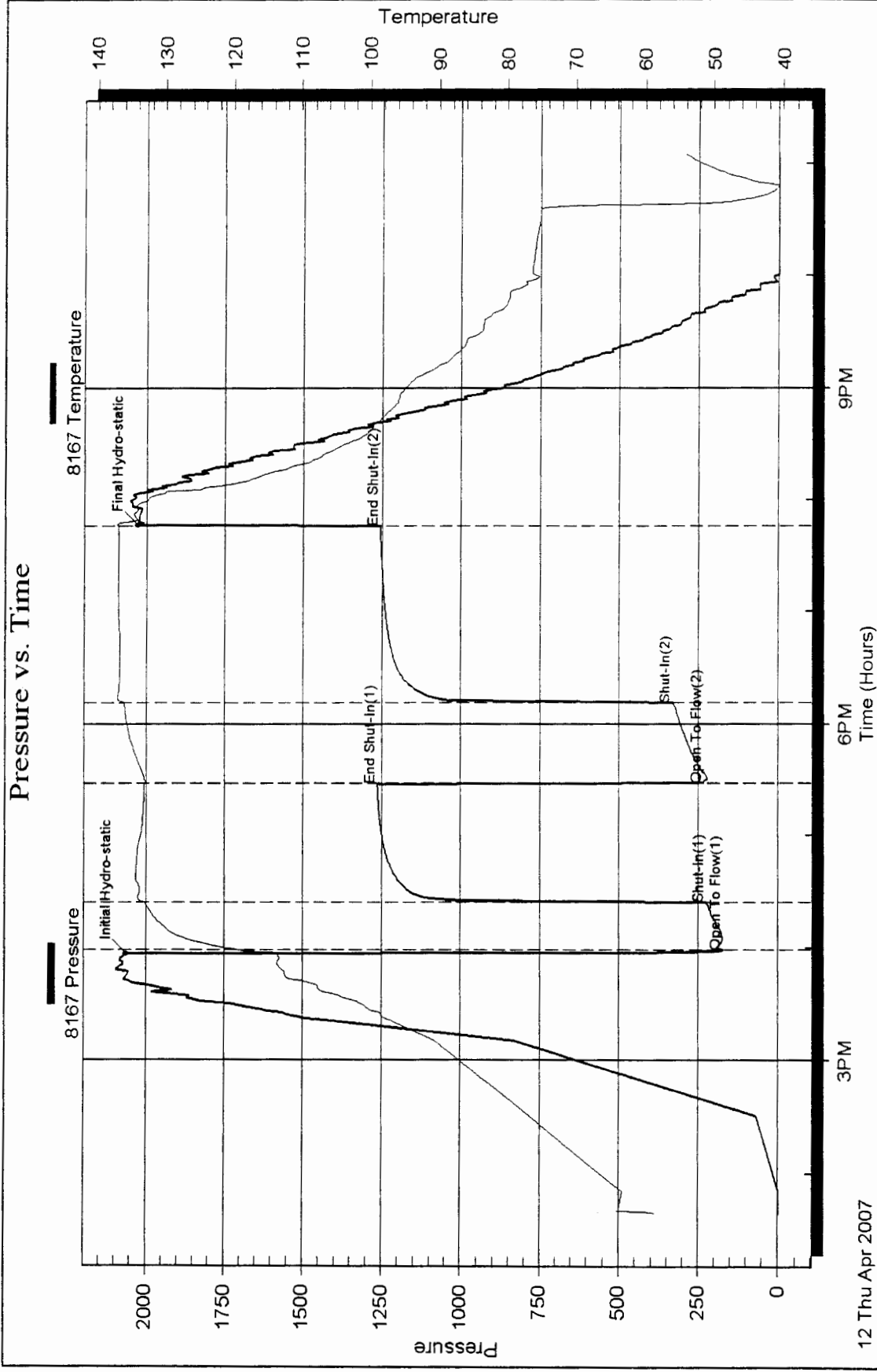
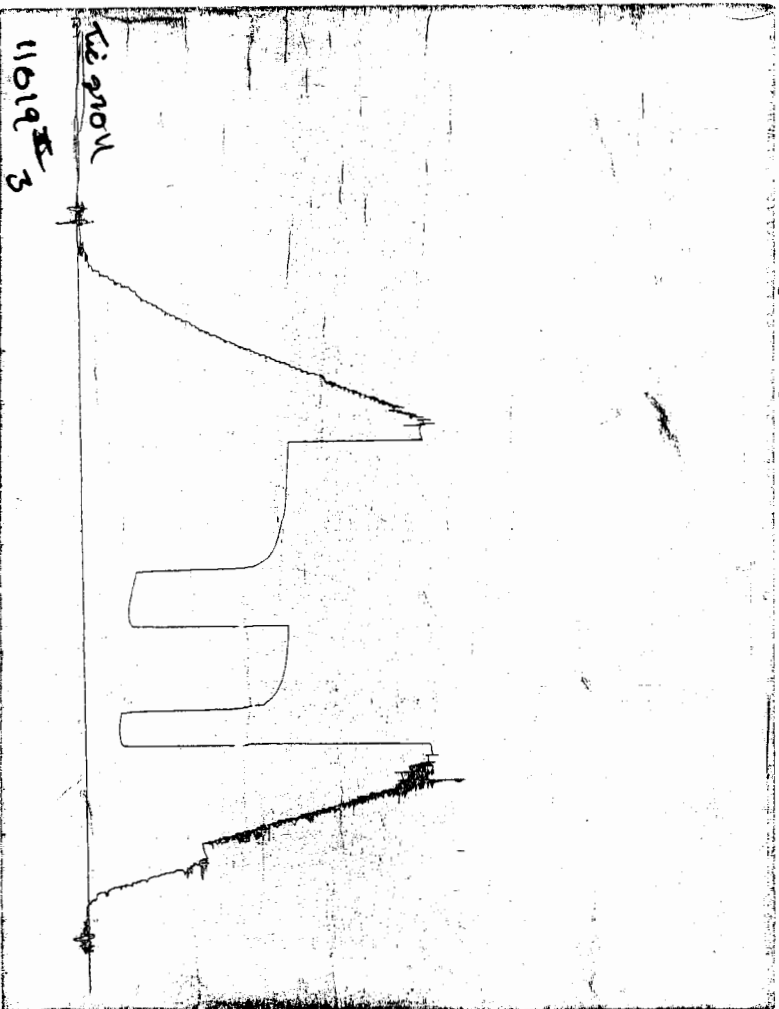
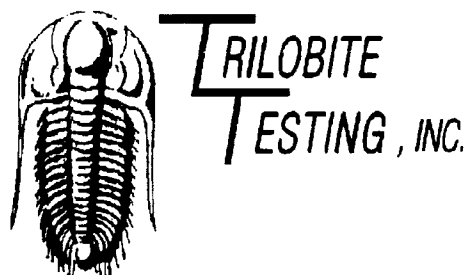


CHART PAGE

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





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 #2

Start Date: 2007.04.14 @ 13:02:52

End Date: 2007.04.15 @ 05:07:07

Job Ticket #: 27012 DST #: 4

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

105 S Broadway Ste 360
Wichita KS 67202

ATTN: Ben Landes

Derley #2

23 26 18W Edwards KS

Job Ticket: 27012

DST#: 4

Test Start: 2007.04.14 @ 13:02:52

GENERAL INFORMATION:

Formation: **Simpson**

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

Time Tool Opened: 16:46:37

Time Test Ended: 05:07:07

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **4631.00 ft (KB) To 4677.00 ft (KB) (TVD)**

Total Depth: **4677.00 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: **1482.14 psig @ 4632.00 ft (KB)**

Start Date: **2007.04.14**

End Date: **2007.04.15**

Capacity: **7000.00 psig**

Last Calib.: **2007.04.15**

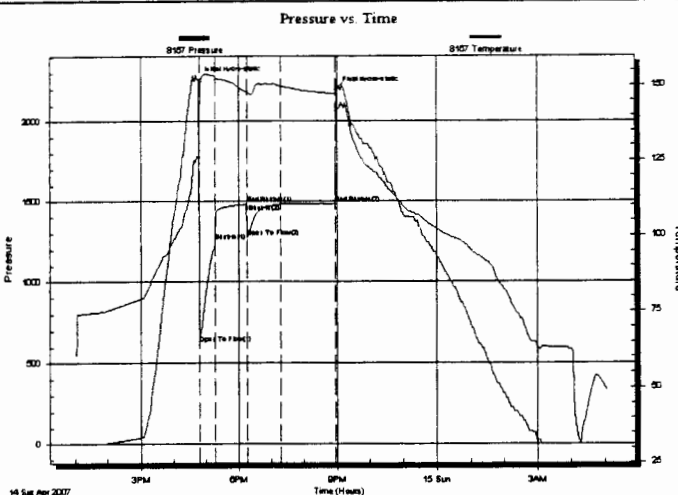
Start Time: **13:02:57**

End Time: **05:07:07**

Time On Btm: **2007.04.14 @ 16:46:07**

Time Off Btm: **2007.04.14 @ 20:58:21**

TEST COMMENT: IF Strong blow BOB in 20 secs.
ISI Strong blow BOB GTS 3 mins. in to ISIP.
FF Strong blow BOB in 30 secs. (See gas flow report)
FSI Strong blow BOB



PRESSURE SUMMARY

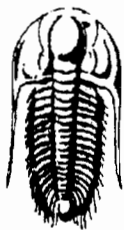
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.05	125.96	Initial Hydro-static
1	622.81	126.05	Open To Flow (1)
31	1250.31	153.06	Shut-In (1)
90	1482.40	147.83	End Shut-In (1)
90	1273.93	147.76	Open To Flow (2)
152	1482.14	149.63	Shut-In (2)
252	1487.28	147.19	End Shut-In (2)
253	2196.20	147.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	MW w/O specs 8%M 92%W Rw .15 OHM2.76	
0.00	@ 44 deg F.	0.00
245.00	G&OCMW 18%G 18%O 20%M 44%W	3.44
3480.00	CGO 27%G 73%O	48.82

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.00	6.14
Last Gas Rate	0.13	2.00	6.14



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

Job Ticket: 27012

DST#: 4

ATTN: Ben Landes

Test Start: 2007.04.14 @ 13:02:52

Tool Information

Drill Pipe:	Length: 4507.00 ft	Diameter: 3.80 inches	Volume: 63.22 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:	24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	92000.00 lb
		Total Volume:	63.81 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4631.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	74.00 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			4604.00	
Shut In Tool	5.00			4609.00	
Hydraulic tool	5.00			4614.00	
Jars	5.00			4619.00	
Safety Joint	3.00			4622.00	
Packer	4.00			4626.00	28.00 Bottom Of Top Packer
Packer	5.00			4631.00	
Stubb	1.00			4632.00	
Recorder	0.00	8167	Inside	4632.00	
Perforations	5.00			4637.00	
Change Over Sub	1.00			4638.00	
Blank Spacing	31.00			4669.00	
Change Over Sub	1.00			4670.00	
Perforations	2.00			4672.00	
Recorder	0.00	11019	Outside	4672.00	
Bullnose	5.00			4677.00	46.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

Job Ticket: 27012

DST#: 4

ATTN: Ben Landes

Test Start: 2007.04.14 @ 13:02:52

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.19 in³
Resistivity: 0.00 ohm.m
Salinity: 8000.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 36.8 deg API
Water Salinity: 83000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
275.00	MW w/O specs 8%M 92%W Rw .15 OHMS	2.764
0.00	@ 44 deg F.	0.000
245.00	G&OCMW 18%G 18%O 20%M 44%W	3.437
3480.00	CGO 27%G 73%O	48.815

Total Length: 4000.00 ft Total Volume: 55.016 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Mid-Continent Energy Corporation

Derley #2

105 S Broadway Ste 360
Wichita KS 67202

23 26 18W Edwards KS

Job Ticket: 27012

DST#: 4

ATTN: Ben Landes

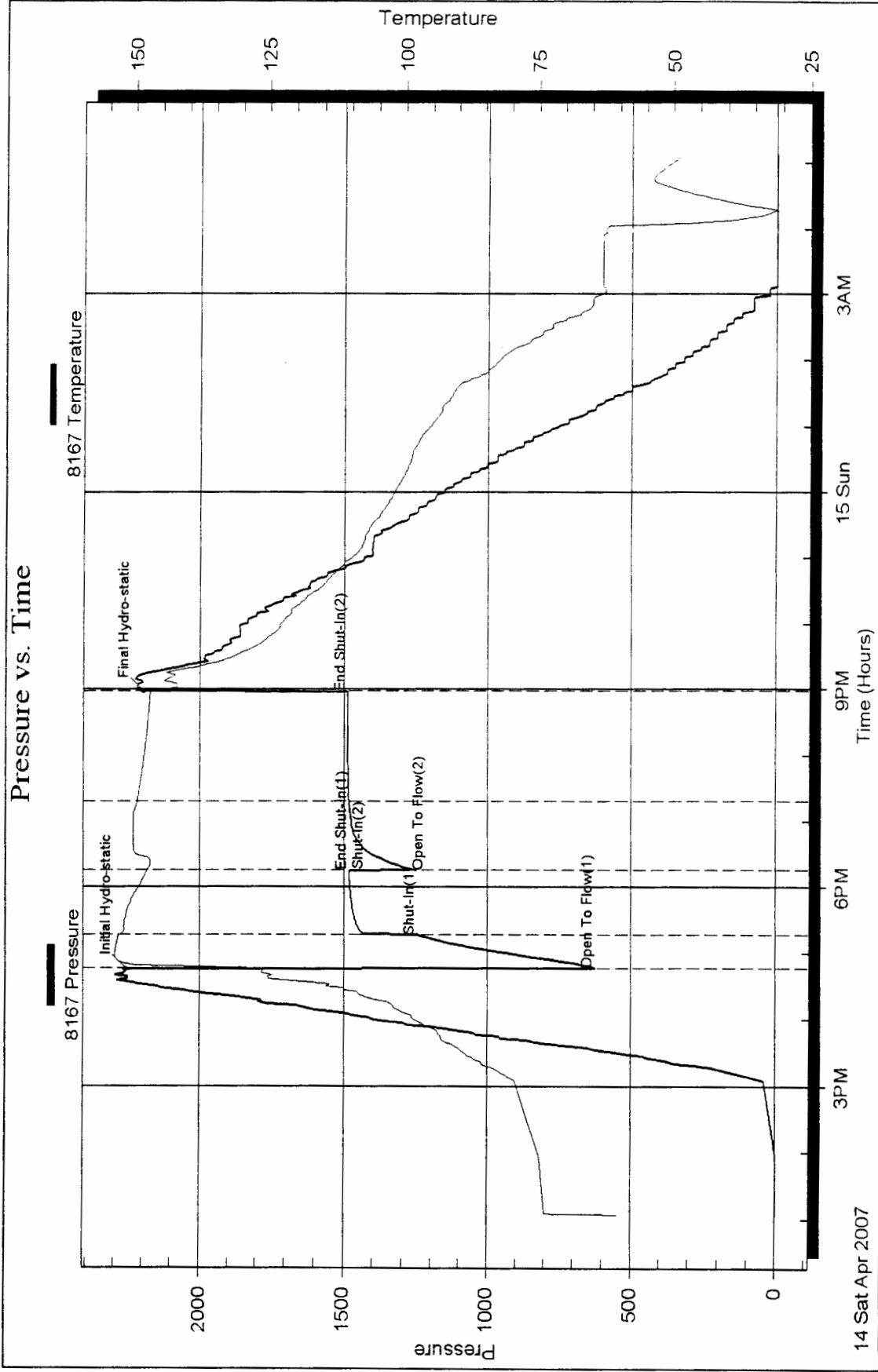
Test Start: 2007.04.14 @ 13:02:52

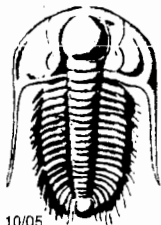
Gas Rates Information

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	10	0.13	2.00	6.14
2	10	0.13	2.00	6.14





TRILOBITE TESTING INC.

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27009 ✓

Test Ticket

Well Name & No. Derby #2 Test No. 1 Date 4-10-07
 Company Midcontinent Energy Corp. Zone Tested Lane, KS.
 Address 105 S. Broadway, Ste. 360, Wichita, KS. 67202 Elevation 2170 KB 2163 GL
 Co. Rep / Geo. Ben Landes Rig Warner Dlg. #17
 Location: Sec. 23 Twp. 26S Rge. 18W Co. Edwards State KS
 Comment: _____ Release date / time: _____

Interval Tested 4080 - 4116' Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 64,000
 Anchor Length 36' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 77,000
 Top Packer Depth 4075' Tool Weight 2100#
 Bottom Packer Depth 4080' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4116' Wt. Pipe Run None Drill Collar Run 120'
 Mud Wt. 9.0 LCM 3# Vis. S8 WL 11.2cc Drill Pipe Size 4 1/2" Ft. Run 3949'
 Blow Description IF: Strong blow. B.O.B. in 2 1/2 mins. ISI: Weak below. 1/2 - 3 1/2".
FF: Strong blow. B.O.B. in 2 1/2 mins. FSI: Strong blow. B.O.B. GTS 1 min. into FSI.

Recovery - Total Feet 406 GIP yes Ft. in DC 120 Ft. in DP 286
 Rec. 100 Feet of GOCM 20% gas 16% oil %water 64% mud
 Rec. 124 Feet of GOCMW 8% gas 8% oil 56% water 28% mud
 Rec. 182 Feet of MW @ 0.0 spec. %gas %oil 95% water 5% mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 134 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW .11 @ 51 °F Chlorides 10,000 ppm Recovery _____ Chlorides 9,000 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1981</u> PSI	<u>8167</u>	<u>✓ 1200</u>
(B) First Initial Flow Pressure	<u>35</u> PSI	<u>4081'</u>	<u>✓ 250</u>
(C) First Final Flow Pressure	<u>104</u> PSI	<u>11019</u>	<u>✓ 75</u>
(D) Initial Shut-In Pressure	<u>1350</u> PSI	<u>4111'</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>109</u> PSI	<u>~~~~~</u>	Sampler _____
(F) Second Final Flow Pressure	<u>203</u> PSI	<u>~~~~~</u>	Straddle _____
(G) Final Shut-In Pressure	<u>1343</u> PSI	<u>Initial Opening</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1946</u> PSI	<u>Initial Shut-In</u>	Shale Packer _____

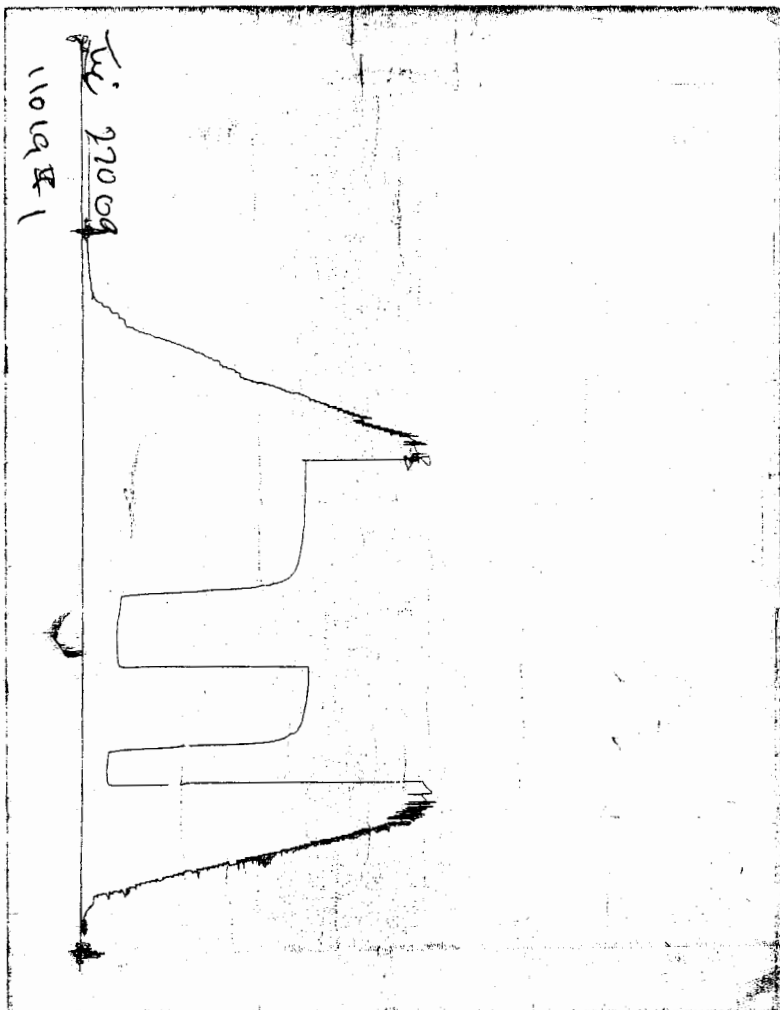
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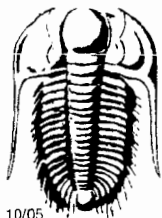
Approved By Ben
 Our Representative Cory R. [Signature]

Final Flow 60
 Final Shut-In 90
 T-On Location 2011
 T-Started 2053
 T-Open 2308
 T-Pulled 0314
 T-Out 0630
 Mileage 88 ✓ 110
 Sub Total: 1635
 Std. By WV 100
 Acc. Chg: _____
 Other: _____
 Total: 1735.00

CHART PAGE

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





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27010

Test Ticket

Well Name & No. <u>Darby #2</u>	Test No. <u>2</u>	Date <u>4-11-07</u>
Company <u>Midcontinent Energy Corp.</u>	Zone Tested <u>Lans. 122.</u>	
Address <u>105 S. Broadway, Ste 360, Wichita Ks. 67202</u>	Elevation <u>2170</u>	KB <u>2163</u> GL
Co. Rep / Geo. <u>Ben Landes</u>	Rig <u>Warren Drilling #17</u>	
Location: Sec. <u>23</u> Twp. <u>26 S</u> Rge. <u>18 W</u>	Co. <u>Edwards</u>	State <u>Ks</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4118 - 4175'</u>	Initial Str Wt./Lbs. <u>56,000</u>	Unseated Str Wt./Lbs. <u>59,000</u>
Anchor Length <u>57'</u>	Wt. Set Lbs. <u>24,000</u>	Wt. Pulled Loose/Lbs. <u>78,000</u>
Top Packer Depth <u>4113'</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>4118'</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>4175'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>120</u>
Mud Wt. <u>9.1</u> LCM <u>2#</u> Vis. <u>54</u> WL <u>12.2 cc</u>	Drill Pipe Size <u>4 1/2"</u>	Ft. Run <u>3981</u>
Blow Description <u>IF: Strong blow. GTS in 3 mins. (see gas flow report)</u>		
<u>FSI: Weak blow. 1-3".</u>		
<u>FF: Strong blow. (see gas flow report) FSI: Weak blow. 1-3".</u>		

Recovery - Total Feet <u>465</u>	GIP <u>Yes</u>	Ft. in DC <u>120</u>	Ft. in DP <u>345</u>
Rec. <u>220</u>	Feet of <u>GCM</u>	39 %gas	%oil %water 61 %mud
Rec. <u>245</u>	Feet of <u>GCMW</u>	60 %gas	%oil 75 %water 15 %mud
Rec. <u>245</u>	Feet of	%gas	%oil %water %mud
Rec.	Feet of	%gas	%oil %water %mud
Rec.	Feet of	%gas	%oil %water %mud
BHT <u>132</u>	*F Gravity <u>N/A</u>	*API D @ <u>~</u>	*F Corrected Gravity <u>N/A</u> *API
RW <u>.40</u>	@ <u>54</u>	*F Chlorides <u>92,000</u> ppm Recovery	Chlorides <u>12,000</u> ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>2029</u>	PSI	Recorder No.	<u>8167</u>	Test	<u>✓ 1200</u>
(B) First Initial Flow Pressure	<u>225</u>	PSI	(depth)	<u>4119'</u>	Jars	<u>✓ 250</u>
(C) First Final Flow Pressure	<u>367</u>	PSI	Recorder No.	<u>11019</u>	Safety Jt.	<u>✓ 75</u>
(D) Initial Shut-In Pressure	<u>1433</u>	PSI	(depth)	<u>4170'</u>	Circ Sub	
(E) Second Initial Flow Pressure	<u>347</u>	PSI	Recorder No.	<u>~</u>	Sampler	
(F) Second Final Flow Pressure	<u>404</u>	PSI	(depth)	<u>~</u>	Straddle	
(G) Final Shut-In Pressure	<u>1429</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1970</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer	
			Final Flow	<u>40</u>	Ruined Packer	
			Final Shut-In	<u>90</u>	Mileage <u>88</u>	<u>✓ 110</u>
			T-On Location	<u>1639</u>	Sub Total:	<u>1635</u>
			T-Started	<u>1708</u>	Std. By <u>VS</u>	<u>✓ 150</u>
			T-Open	<u>2026</u>	Acc. Chg:	
			T-Pulled	<u>0005</u>	Other:	
			T-Out	<u>0319</u>	Total:	<u>1785</u>

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Approved By _____
Our Representative Gary P. [Signature]



GAS VOLUME REPORT

Durley # 2

OPERATOR

WELL NAME AND NO.

DST NO.

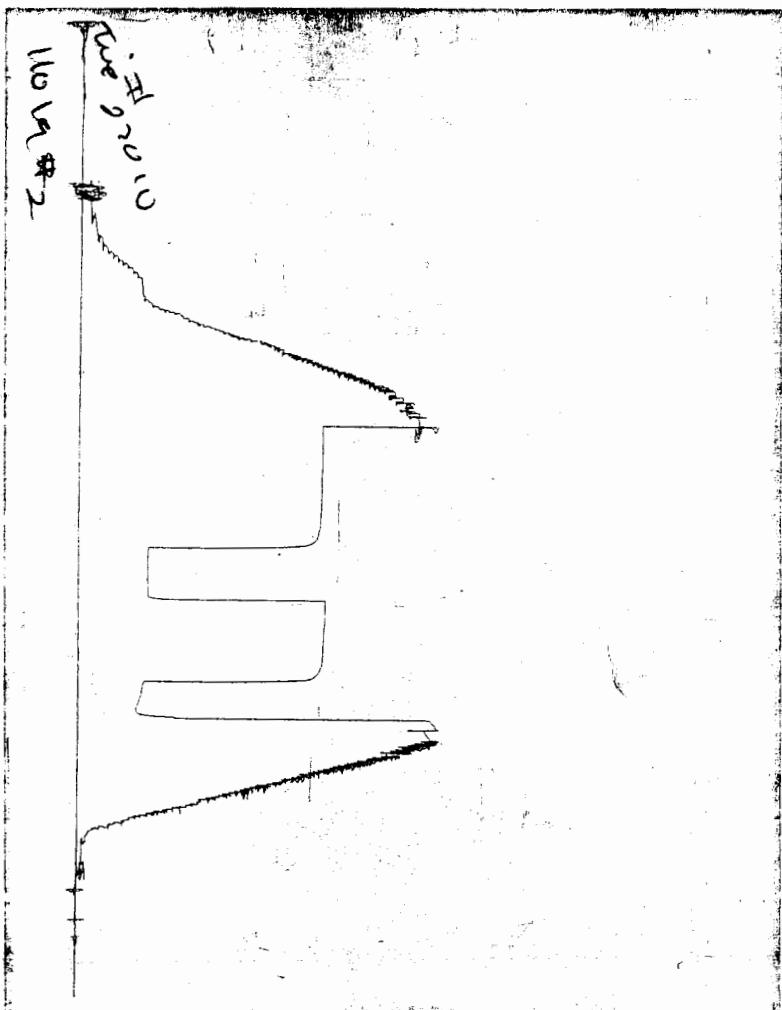
Initial Open

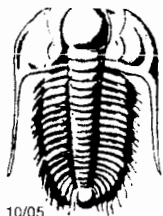
Final Open

Remarks:

CHART PAGE

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TRILOBITE TESTING INC.

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27011

Test Ticket

Well Name & No. Durley #2 Test No. 3 Date 4-12-07
 Company Midcontinent Energy Zone Tested Lans 1CC
 Address Wichita Ks. 67202 Elevation 2120 KB 2163 GL
 Co. Rep / Geo. Burr Landels Rig Warren Valg #17
 Location: Sec. 23 Twp. 26S Rge. 18W Co. Edwards State Ks.
 Comment: 5-7 feet of hard fill on btm. (sidetool) Release date / time: _____

Interval Tested 4200 ~ 4229' Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 44,500
 Anchor Length 29' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 85,000
 Top Packer Depth 4195' Tool Weight 2100#
 Bottom Packer Depth 4200' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4229' Wt. Pipe Run None Drill Collar Run 120
 Mud Wt. 9.1 LCM 3# Vis. 53 WL 12.2" Drill Pipe Size 4 1/2" Ft. Run 4070
 Blow Description IF: Strong blow. CTS in 3.3 mins. (see gas flow report)
ISI: Weak blow 2-3 1/2"
FF: Strong blow. (see gas flow report) FSI: Weak blow. 1-3"

Recovery - Total Feet 555 GIP Yes Ft. in DC 120 Ft. in DP _____
 Rec. 125 Feet of GCM 36 %gas %oil %water 44 %mud
 Rec. 125 Feet of GCMW 13 %gas %oil 40 %water 27 %mud
 Rec. 285 Feet of SW %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 137 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW 13 @ 55 °F Chlorides 88,000 ppm Recovery _____ Chlorides 12,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2072</u>	PSI	<u>8167</u>	<u>✓ 1200</u>
(B) First Initial Flow Pressure	<u>171</u>	PSI	<u>4201'</u>	Jars <u>✓ 250</u>
(C) First Final Flow Pressure	<u>225</u>	PSI	<u>11019</u>	Safety Jt. <u>✓ 75</u>
(D) Initial Shut-In Pressure	<u>1264</u>	PSI	<u>4224'</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>233</u>	PSI	<u>---</u>	Sampler _____
(F) Second Final Flow Pressure	<u>332</u>	PSI	<u>---</u>	Straddle _____
(G) Final Shut-In Pressure	<u>1255</u>	PSI	<u>Initial Opening</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2033</u>	PSI	<u>Initial Shut-In</u>	Shale Packer _____

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Approved By _____

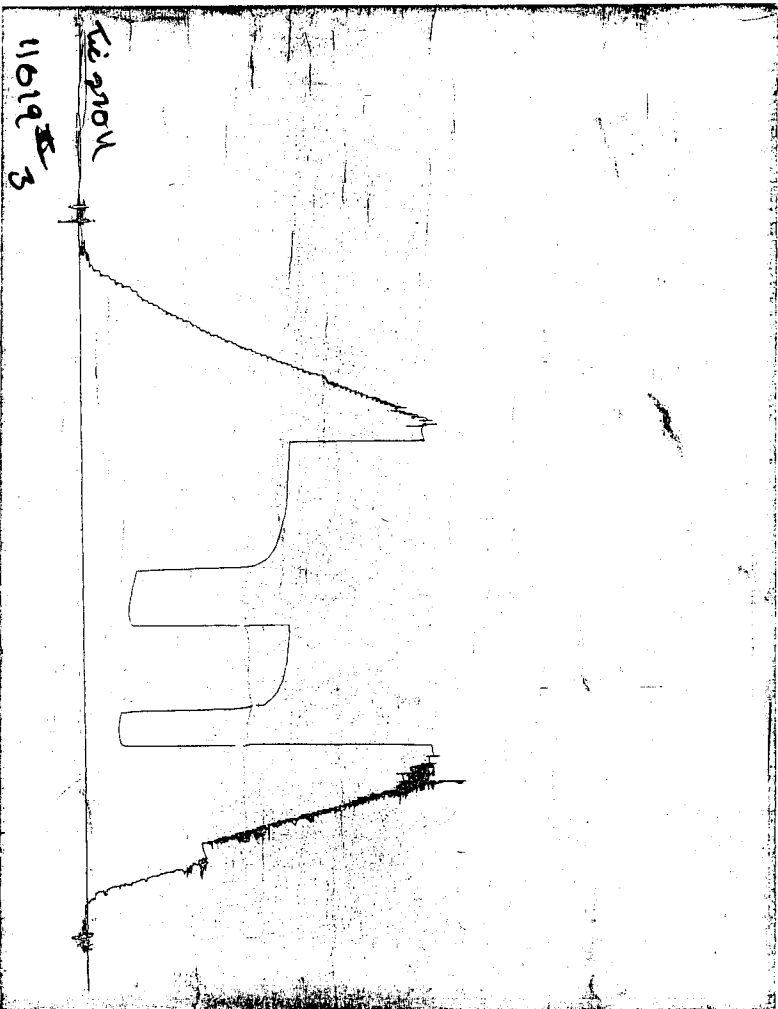
Our Representative Cory Brumby

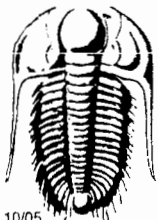
Final Flow 45
 Final Shut-In 90
 T-On Location 1330
 T-Started 1338
 T-Open 1558
 T-Pulled 1949
 T-Out 2365

Ruined Packer _____
 Mileage 88 ✓ 110
 Sub Total: 1635
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: 1635.00

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27012 ✓

Test Ticket

Well Name & No. <u>DERLEY #2</u>	Test No. <u>4</u>	Date <u>4-14-07</u>
Company <u>Midcontinent Energy Corp.</u>	Zone Tested <u>Simpson</u>	
Address <u>Wichita Ks. 67202</u>	Elevation <u>2170</u> KB <u>2163</u>	GL
Co. Rep / Geo. <u>Ben Lander</u>	Rig <u>Warren Dwy #17</u>	
Location: Sec. <u>23</u> Twp. <u>26 S</u> Rge. <u>18 W</u>	Co. <u>Edwards</u>	State <u>KS.</u>
Comment: _____		Release date / time: _____

Interval Tested 4631' - 4677' Initial Str Wt./Lbs. 64,000 Unseated Str Wt./Lbs. 82,000
 Anchor Length 41' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 92,000
 Top Packer Depth 4626' Tool Weight 2100 #
 Bottom Packer Depth 4631' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4677' Wt. Pipe Run None Drill Collar Run 120'
 Mud Wt. 9.2 LCM 1 # Vis. 53 WL 8.2 Drill Pipe Size 4 1/2" Ft. Run 4507
 Blow Description 1F; STRONG BLOW. B.O.B. IN 20 SECS.
1.51; STRONG BLOW. B.O.B. GTS 3 MINS. INTO INITIAL SHUT IN
PERIOD.
FF; STRONG BLOW. B.O.B. IN 30 SECS. (longer flow report) FSI; STRONG BLOW
 Recovery - Total Feet 4,000 GIP yes Ft. in DC 120 Ft. in DP 3880 BOB.
 Rec. 3480 Feet of CGO 27 %gas 73 %oil %water 88 %mud
 Rec. 245 Feet of GEOCMW 18 %gas 18 %oil 44 %water 20 %mud
 Rec. 225 Feet of MW @ 200 pps. %gas %oil 92 %water 8 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 147 °F Gravity 35 °API D @ 45 °F Corrected Gravity 36.8 °API
 RW .15 @ 44 °F Chlorides 83,000 ppm Recovery _____ Chlorides 8,000 ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2257</u> PSI	Recorder No. <u>8167</u>	Test <u>✓ 1200</u>
(B) First Initial Flow Pressure	<u>623</u> PSI	(depth) <u>4632</u>	Jars <u>✓ 250</u>
(C) First Final Flow Pressure	<u>1250</u> PSI	Recorder No. <u>11019</u>	Safety Jt. <u>✓ 75</u>
(D) Initial Shut-In Pressure	<u>1482</u> PSI	(depth) <u>4672'</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>6214</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>1482</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1481</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2228</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
		Final Flow <u>60</u>	Ruined Packer _____
		Final Shut-In <u>96</u>	Mileage <u>88</u> ✓ <u>110</u>
		T-On Location <u>1245</u>	Sub Total: <u>1635°</u>
		× T-Started <u>1302</u>	Std. By <u>10</u> ✓ <u>700°</u>
		× T-Open <u>1646</u>	Acc. Chg: _____
		T-Pulled <u>1950</u>	Other: _____
		× T-Out <u>0507</u>	Total: <u>2335°</u>

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Approved By _____
 Our Representative Gary Swartz



GAS VOLUME REPORT

Desley #2
WELL NAME AND NO.

4
DST NO.

Final Open

Remarks:

CHART PAGE

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

