**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

19 5 29W Decatur KS

Green-O'Brien #8-19

Start Date: 2008.03.11 @ 07:44:56

End Date: 2008.03.11 @ 16:19:15

Job Ticket #: 31601 DST #: 1

CONFIDENTIAL
JUL 01 2008
KCC

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green-O'Brien #8-19

19 5 29W Decatur KS

Job Ticket: 31601

DST#: 1

Test Start: 2008.03.11 @ 07:44:56

GENERAL INFORMATION:

Formation: **Toronto-Lansing "A-C"**

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

Time Tool Opened: 10:08:16

Time Test Ended: 16:19:15

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **3866.00 ft (KB) To 3946.00 ft (KB) (TVD)**

Total Depth: **3946.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2839.00 ft (KB)**

2834.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **160.28 psig @ 3867.00 ft (KB)**

Start Date: **2008.03.11**

End Date:

2008.03.11

Capacity: **7000.00 psig**

Last Calib.: **2008.03.11**

Start Time: **07:44:58**

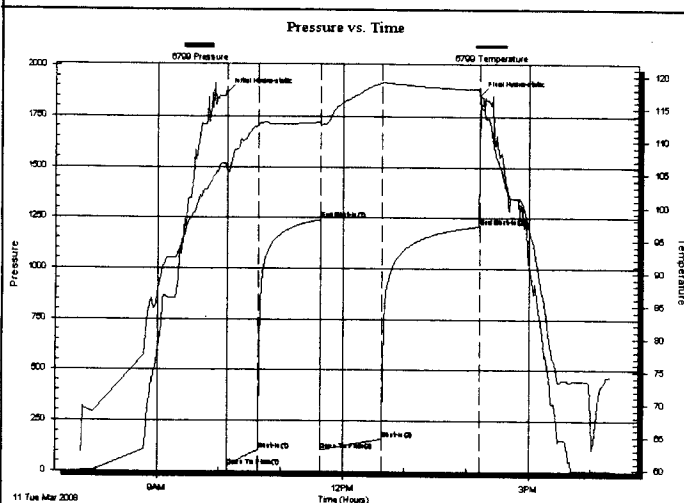
End Time:

16:19:15

Time On Btm: **2008.03.11 @ 10:07:56**

Time Off Btm: **2008.03.11 @ 14:13:05**

TEST COMMENT: IF Fair blow built to 8 " in bucket
ISI Bled off no blow back
FF Fair blow built to BOB in 54 min
FSI Bled off no blow back



PRESSURE SUMMARY

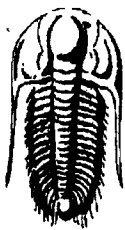
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.70	106.26	Initial Hydro-static
1	20.80	105.68	Open To Flow (1)
30	102.38	112.44	Shut-In (1)
90	1239.81	112.96	End Shut-In (1)
91	105.54	112.56	Open To Flow (2)
150	160.28	119.03	Shut-In (2)
245	1209.00	118.09	End Shut-In (2)
246	1858.19	116.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SMCW 7%M 93%W	0.59
130.00	SOSWM <1%O 35%W 65%M	1.28
0.00	chlorides = 55,000 ppm	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Green-O'Brien #8-19

250 N Water Ste 300
Wichita KS 67202

19 5 29W Decatur KS

ATTN: Dave Goldak

Job Ticket: 31601

DST#: 1

Test Start: 2008.03.11 @ 07:44:56

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	52.44 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3866.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	103.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3848.00	
Hydraulic tool	5.00			3853.00	
Safety Joint	3.00			3856.00	
Packer	5.00			3861.00	23.00 Bottom Of Top Packer
Packer	5.00			3866.00	
Stubb	1.00			3867.00	
Recorder	0.00	6799	Inside	3867.00	
Perforations	11.00			3878.00	
Recorder	0.00	10270	Outside	3878.00	
Blank Spacing	65.00			3943.00	
Bullnose	3.00			3946.00	80.00 Bottom Packers & Anchor

Total Tool Length: 103.00

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Green-O'Brien #8-19

250 N Water Ste 300
Wichita KS 67202

19 5 29W Decatur KS

ATTN: Dave Goldak

Job Ticket: 31601

DST#: 1

Test Start: 2008.03.11 @ 07:44:56

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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SMCW 7%M 93%W	0.590
130.00	SOSWM <1%O 35%W 65%M	1.277
0.00	chlorides = 55,000 ppm	0.000

Total Length: 250.00 ft

Total Volume: 1.867 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

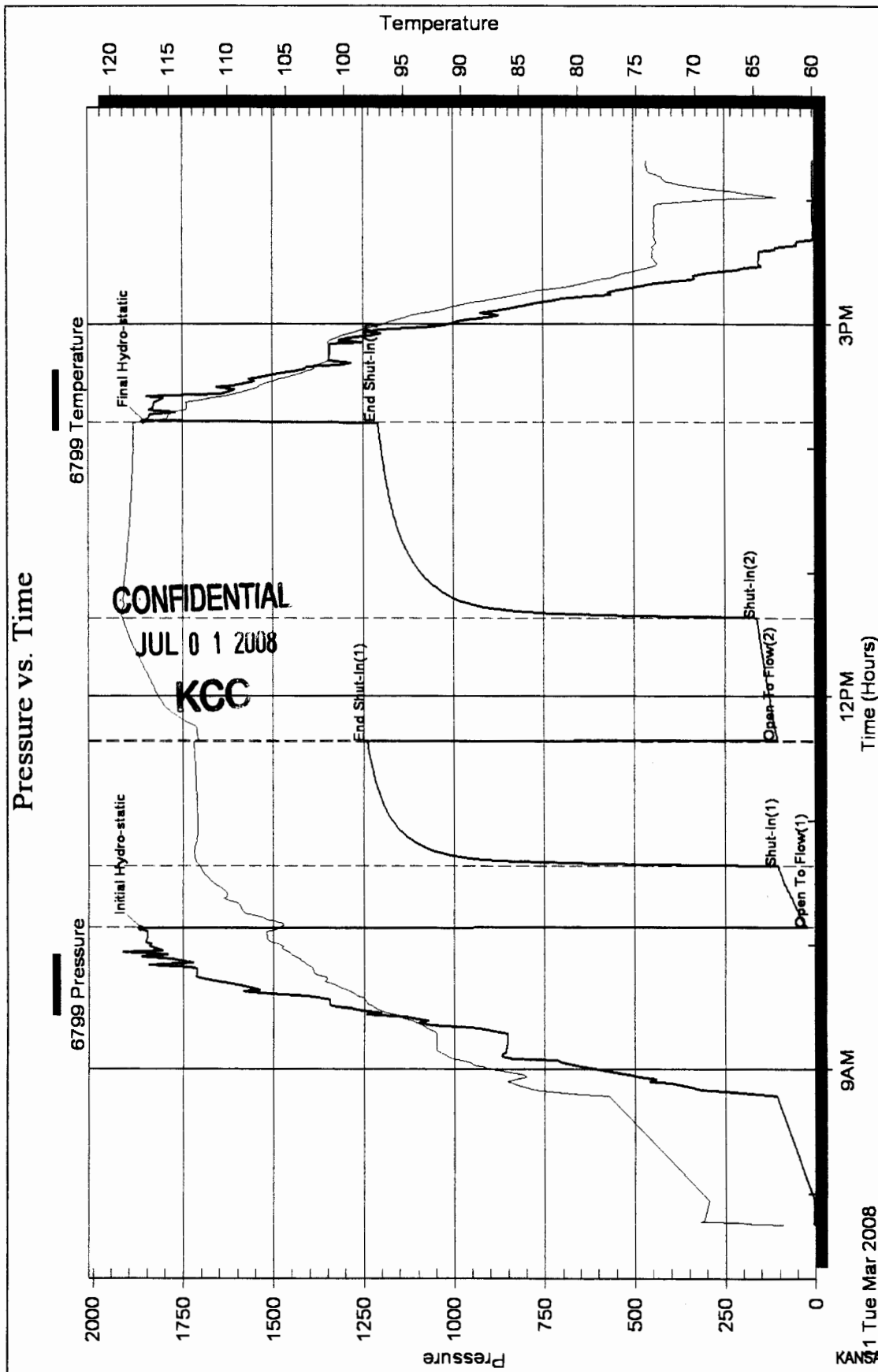
19 5 29W Decatur KS

Murfin Drilling Company

Inside

Serial #: 6799

Pressure vs. Time



RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 31601

Testing, Inc

Printed: 2008.03.14 @ 10:22:40 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

19 5 29W Decatur KS

Green-O'Brien #8-19

Start Date: 2008.03.12 @ 03:03:00

End Date: 2008.03.12 @ 09:34:30

Job Ticket #: 31602 DST #: 2

CONFIDENTIAL
JUL 01 2008
KCC

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green-O'Brien #8-19

19 5 29W Decatur KS

Job Ticket: 31602

DST#: 2

Test Start: 2008.03.12 @ 03:03:00

GENERAL INFORMATION:

Formation: **Lansing "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:46:00

Time Test Ended: 09:34:30

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **3960.00 ft (KB) To 3996.00 ft (KB) (TVD)**

Total Depth: 3996.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2839.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352 Inside

Press@RunDepth: 33.42 psig @ 3961.00 ft (KB)

Start Date: 2008.03.12

End Date: 2008.03.12

Start Time: 03:03:02

End Time: 09:34:30

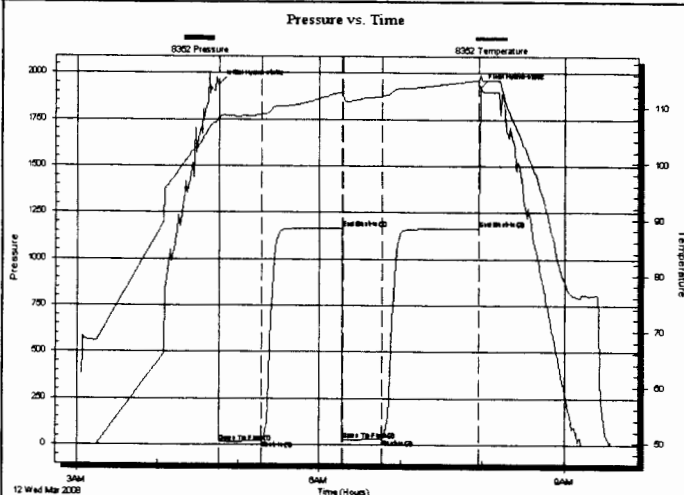
Capacity: 7000.00 psig

Last Calib.: 2008.03.12

Time On Btm: 2008.03.12 @ 04:45:50

Time Off Btm: 2008.03.12 @ 07:58:20

TEST COMMENT: IF Weak blow built to 1.75 " in bucket
ISI Bled off no blow back
FF Very weak blow after 17 min built to .25 " in bucket
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.83	108.29	Initial Hydro-static
1	13.78	107.59	Open To Flow (1)
32	23.02	108.74	Shut-In(1)
91	1165.42	112.83	End Shut-In(1)
92	25.79	112.06	Open To Flow (2)
121	33.42	112.04	Shut-In(2)
192	1164.76	114.96	End Shut-In(2)
193	1925.38	115.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	SOSWCM 1%O 30%W 70%M	0.25
0.00	chlorides = 42,000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green-O'Brien #8-19

19 5 29W Decatur KS

Job Ticket: 31602

DST#: 2

Test Start: 2008.03.12 @ 03:03:00

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 53.79 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3960.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3942.00	
Hydraulic tool	5.00			3947.00	
Safety Joint	3.00			3950.00	
Packer	5.00			3955.00	23.00 Bottom Of Top Packer
Packer	5.00			3960.00	
Stubb	1.00			3961.00	
Recorder	0.00	6799	Inside	3961.00	
Recorder	0.00	8352	Inside	3961.00	
Perforations	32.00			3993.00	
Bullnose	3.00			3996.00	36.00 Bottom Packers & Anchor

Total Tool Length: 59.00

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green-O'Brien #8-19

19 5 29W Decatur KS

Job Ticket: 31602

DST#: 2

Test Start: 2008.03.12 @ 03:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	SOSWCM 1%O 30%W 70%M	0.246
0.00	chlorides = 42,000 ppm	0.000

Total Length: 50.00 ft

Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

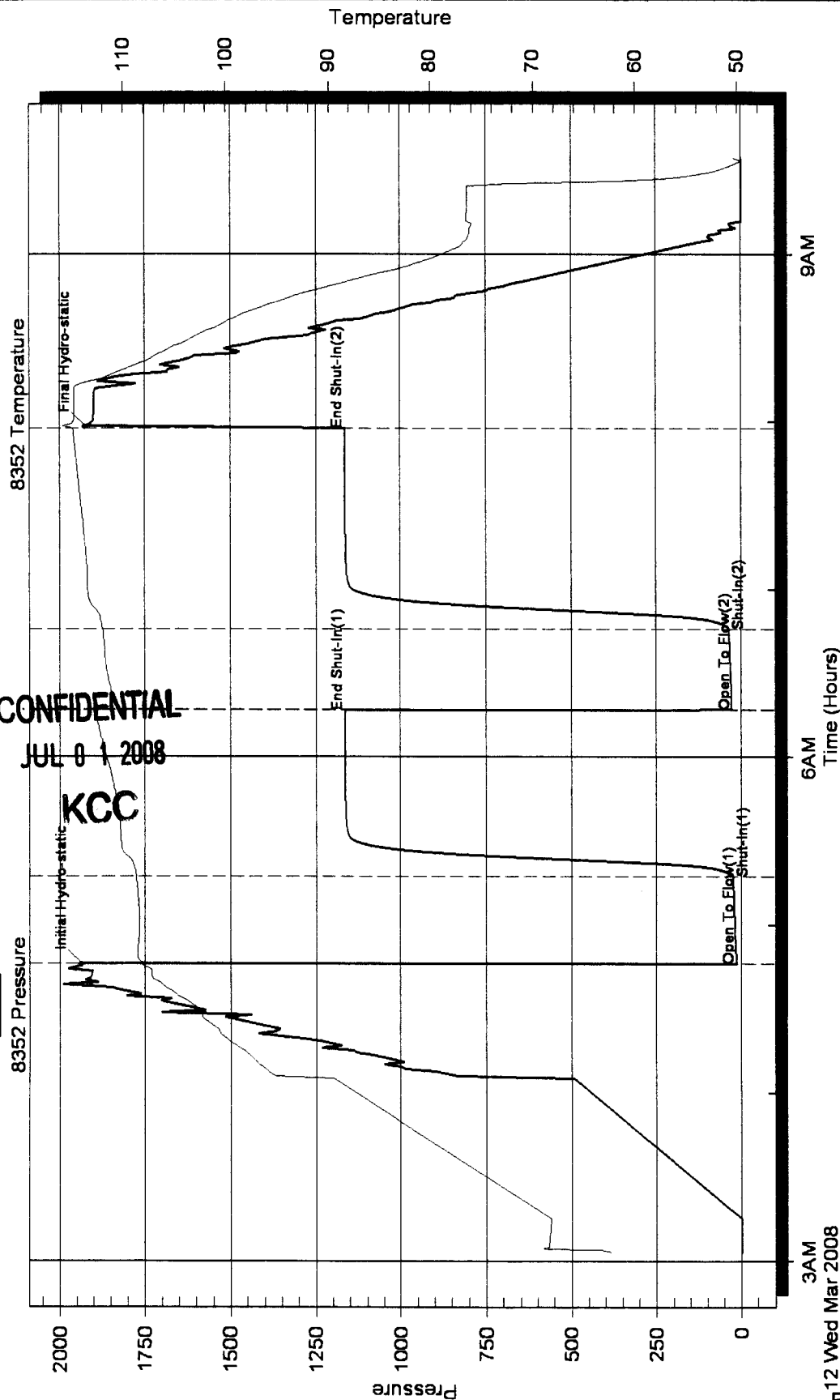
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

CONFIDENTIAL
JUL 0 1 2008
KCC



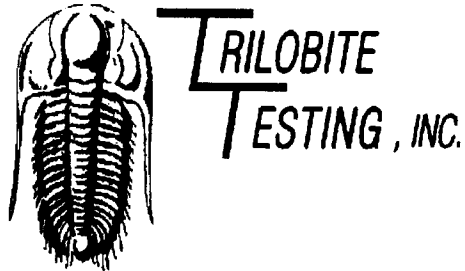
RECEIVED
KANSAS CORPORATION COMMISSION

JUL 0 7 2008

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 31602

Laborte Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

CONFIDENTIAL

JUL 01 2008

KCC

ATTN: Dave Goldak

19 5 29W Decatur KS

Green-O'Brien #8-19

Start Date: 2008.03.13 @ 00:45:00

End Date: 2008.03.13 @ 08:06:50

Job Ticket #: 31603 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green-O'Brien #8-19

19 5 29W Decatur KS

Job Ticket: 31603

DST#: 3

Test Start: 2008.03.13 @ 00:45:00

GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:58:30

Time Test Ended: 08:06:50

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4008.00 ft (KB) To 4102.00 ft (KB) (TVD)**

Total Depth: 4102.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2839.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Inside

Press@RunDepth: 24.44 psig @ 4009.00 ft (KB)

Start Date: 2008.03.13

End Date:

2008.03.13

Start Time: 00:45:02

End Time:

08:06:49

Capacity: 7000.00 psig

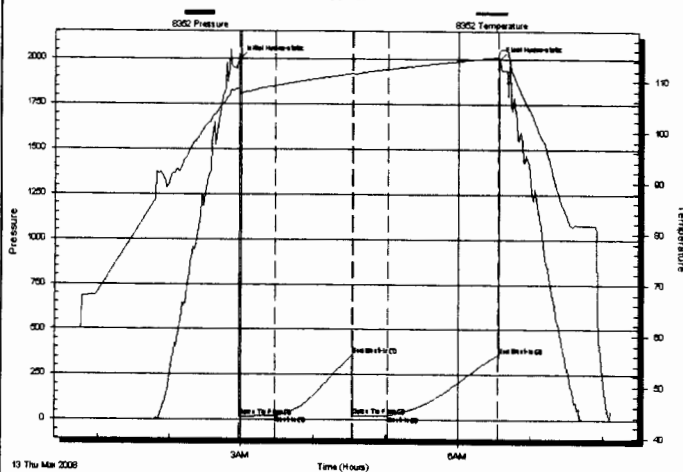
Last Calib.: 2008.03.13

Time On Btm: 2008.03.13 @ 02:58:20

Time Off Btm: 2008.03.13 @ 06:33:30

TEST COMMENT: IF Very weak blow built to 1" in bucket
ISI Bled off no blow back.
FF No blow
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.19	108.32	Initial Hydro-static
1	17.26	107.64	Open To Flow (1)
30	20.51	109.07	Shut-In (1)
94	359.15	111.47	End Shut-In (1)
94	23.00	111.41	Open To Flow (2)
124	24.44	112.26	Shut-In (2)
215	360.90	114.76	End Shut-In (2)
216	1996.69	115.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 2%O 98%M	0.07

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green-O'Brien #8-19

19 5 29W Decatur KS

Job Ticket: 31603

DST#: 3

Test Start: 2008.03.13 @ 00:45:00

Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 68000.00 lb
		Total Volume: 54.63 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4008.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3990.00	
Hydraulic tool	5.00			3995.00	
Safety Joint	3.00			3998.00	
Packer	5.00			4003.00	23.00 Bottom Of Top Packer
Packer	5.00			4008.00	
Stubb	1.00			4009.00	
Recorder	0.00	6799	Inside	4009.00	
Recorder	0.00	8352	Inside	4009.00	
Perforations	24.00			4033.00	
Blank Spacing	66.00			4099.00	
Bullnose	3.00			4102.00	94.00 Bottom Packers & Anchor

Total Tool Length: 117.00

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 07 2008

CONSERVATION DIVISION



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Green-O'Brien #8-19

250 N Water Ste 300
Wichita KS 67202

19 5 29W Decatur KS

Job Ticket: 31603

DST#: 3

ATTN: Dave Goldak

Test Start: 2008.03.13 @ 00:45:00

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:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM 2%O 98%M	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

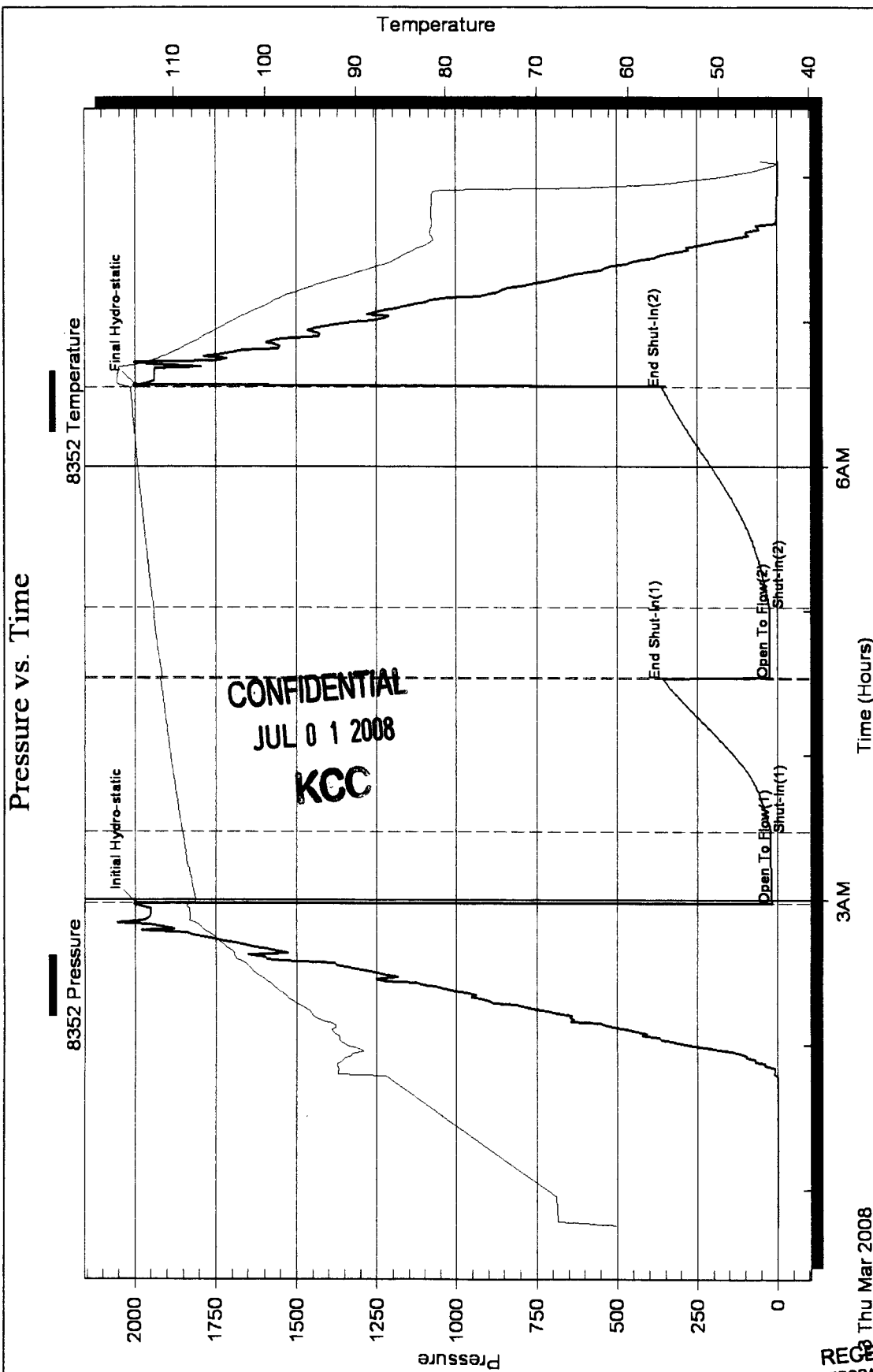
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



JUL 0 7 2008

CONSERVATION DIVISION
WICHITA, KS

RECEIVED
KANSAS CORPORATION COMMISSION
Mobile Testing, Inc

Ref. No: 31603