

15-145-21582

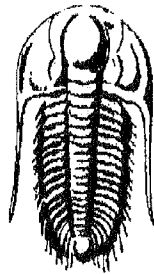
33-225-15w

CONFIDENTIAL

JUN 22 2009

KBB

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water, Ste. 300
Wichita, KS 67202

ATTN: Terry McLeod

33 22 15 Pawnee KS

Fisher 'C' # 1-33

Start Date: 2009.03.11 @ 19:38:00

End Date: 2009.03.12 @ 04:20:30

Job Ticket #: 32988 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

KANSAS CORPORATION COMMISSION

JUN 23 2009

RECEIVED

Murfin Drilling Company, Inc

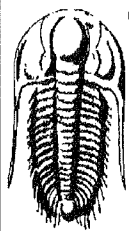
Fisher 'C' # 1-33

33 22 15 Pawnee KS

DST # 1

Lansing 'F'

2009.03.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc

250 N. Water, Ste. 300
Wichita, KS 67202

ATTN: Terry McLeod

Fisher 'C' # 1-33

33 22 15 Pawnee KS

Job Ticket: 32988

DST#: 1

Test Start: 2009.03.11 @ 19:38:00

GENERAL INFORMATION:

Formation: **Lansing 'F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:04:00

Time Test Ended: 04:20:30

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **3630.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Total Depth: 3650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2008.00 ft (KB)

2003.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 161.77 psig @ 3631.00 ft (KB)

Start Date: 2009.03.11

End Date:

2009.03.12

Start Time: 19:38:01

End Time:

04:20:30

Capacity: 7000.00 psig

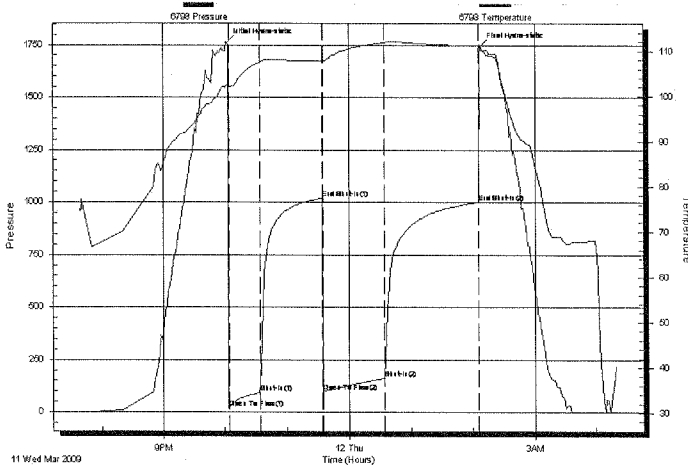
Last Calib.: 2009.03.12

Time On Btm: 2009.03.11 @ 22:02:30

Time Off Btm: 2009.03.12 @ 02:07:00

TEST COMMENT: IF: Fair blow . B.O.B. in 17 mins.
IS: Weak blow . Steady at 1/2".
FF: Fair blow . B.O.B. in 20 mins.
FSI: Weak blow . Steady at 1/2".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.51	102.56	Initial Hydro-static
2	21.01	102.08	Open To Flow (1)
32	93.10	107.45	Shut-In(1)
91	1019.55	107.88	End Shut-In(1)
92	97.17	107.54	Open To Flow (2)
152	161.77	111.87	Shut-In(2)
243	1000.75	111.13	End Shut-In(2)
245	1743.96	110.47	Final Hydro-static

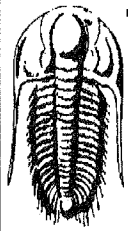
Recovery

Length (ft)	Description	Volume (bbl)
122.00	SMCW 90%w 10%m	0.60
190.00	HMCW w/ oil scum 60%w 40%m	2.67
3.00	Clean oil 100%o	0.04
0.00	RW= .151 @ 26 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JUN 22 2009


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Fisher 'C' # 1-33

 250 N. Water, Ste. 300
Wichita, KS 67202

33 22 15 Pawnee KS

Job Ticket: 32988

DST#: 1

ATTN: Terry McLeod

Test Start: 2009.03.11 @ 19:38:00

Tool Information

Drill Pipe:	Length: 3497.00 ft	Diameter: 3.80 inches	Volume: 49.05 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: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 49.65 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3630.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			3612.00	
Hydraulic tool	5.00			3617.00	
Safety Joint	3.00			3620.00	
Packer	5.00			3625.00	23.00 Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Recorder	0.00	6798	Inside	3631.00	
Recorder	0.00	8367	Inside	3631.00	
Perforations	16.00			3647.00	
Bullnose	3.00			3650.00	20.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc

Fisher 'C' # 1-33

250 N. Water, Ste. 300
Wichita, KS 67202

33 22 15 Pawnee KS

Job Ticket: 32988

DST#: 1

ATTN: Terry McLeod

Test Start: 2009.03.11 @ 19:38:00

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: 160000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	SMCW 90%w 10%m	0.600
190.00	HMCW w/ oil scum 60%w 40%m	2.665
3.00	Clean oil 100%o	0.042
0.00	RVW= .151 @ 26 deg.	0.000

Total Length: 315.00 ft

Total Volume: 3.307 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

JUN 22 2009

DST Test Number: 1

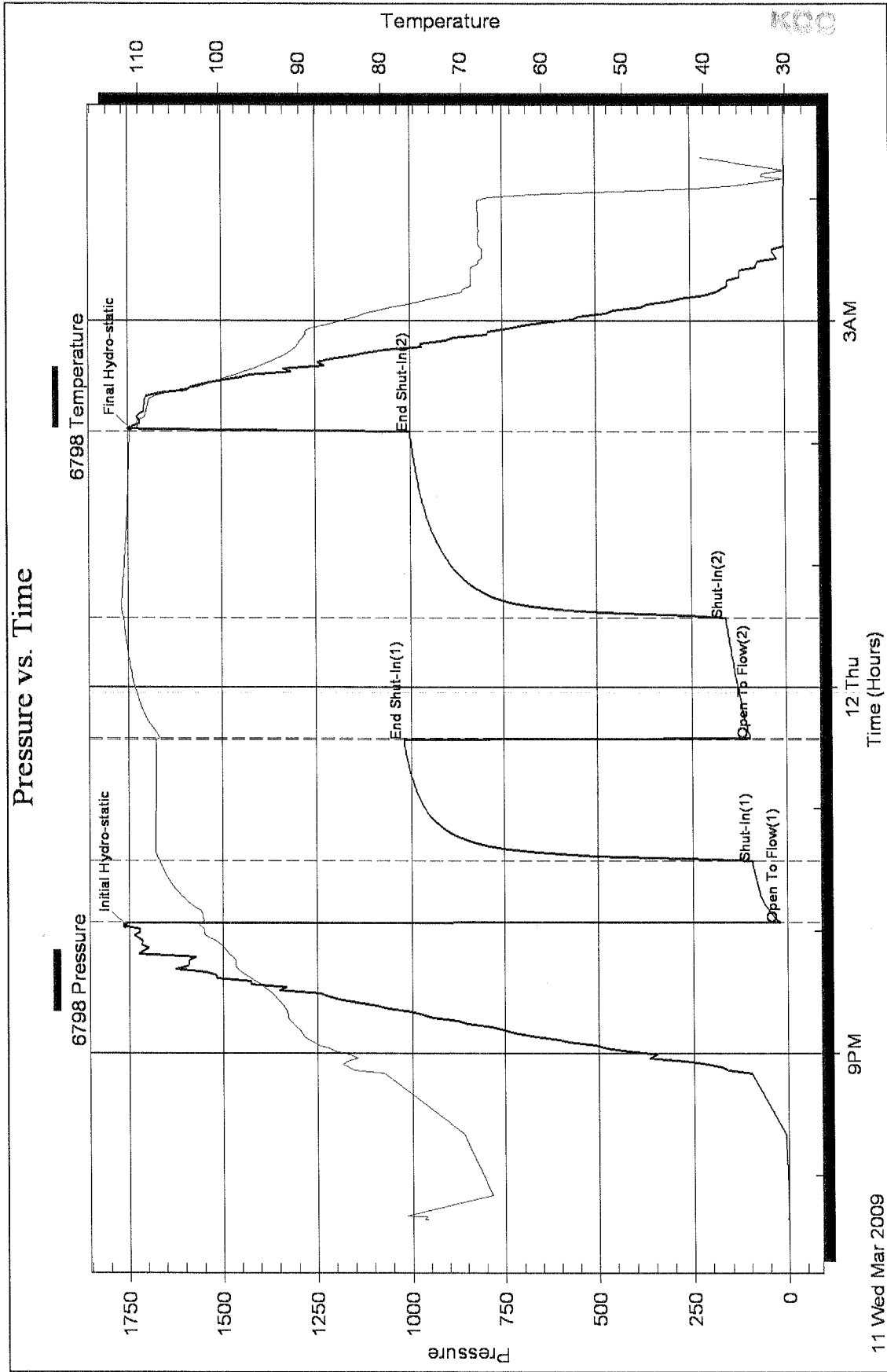
33 22 15 Pawnee KS

Murfin Drilling Company, Inc

Inside

Serial #: 6798

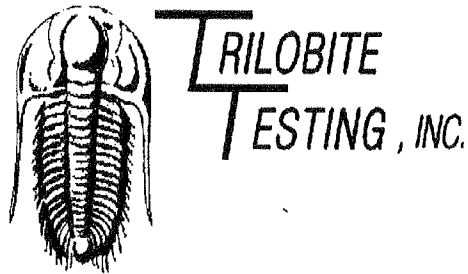
Pressure vs. Time



CONFIDENTIAL

JUN 23 2009

KCC



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water, Ste. 300
Wichita, KS 67202

ATTN: Terry McLeod

33 22 15 Pawnee KS

Fisher 'C' # 1-33

Start Date: 2009.03.12 @ 17:05:47

End Date: 2009.03.13 @ 01:05:17

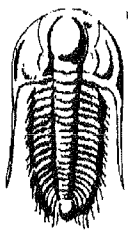
Job Ticket #: 32989 DST #: 2

KANSAS CORPORATION COMMISSION

JUN 23 2009

RECEIVED

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, Inc

250 N. Water, Ste. 300
Wichita, KS 67202

ATTN: Terry McLeod

Fisher 'C' # 1-33

33 22 15 Pawnee KS

Job Ticket: 32989

DST#: 2

Test Start: 2009.03.12 @ 17:05:47

GENERAL INFORMATION:

Formation: **Lansing 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:09:47

Time Test Ended: 01:05:17

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: 3734.00 ft (KB) To 3755.00 ft (KB) (TVD)

Total Depth: 3755.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2008.00 ft (KB)

2003.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 86.31 psig @ 3735.00 ft (KB)

Start Date: 2009.03.12

End Date:

2009.03.13

Start Time: 17:05:48

End Time:

01:05:17

Capacity: 7000.00 psig

Last Calib.: 2009.03.13

Time On Btm: 2009.03.12 @ 19:07:47

Time Off Btm: 2009.03.12 @ 23:09:17

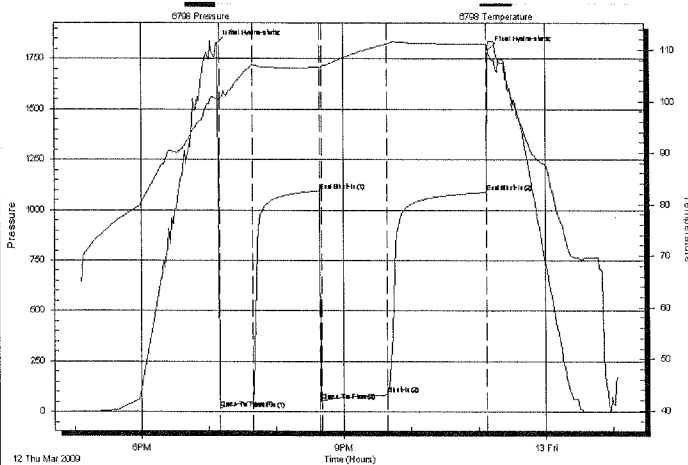
TEST COMMENT: IF: Weak blow . Built to 4 1/2".

ISI: No blow .

FF: Weak blow . Built to 5".

FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.31	100.72	Initial Hydro-static
2	16.77	100.36	Open To Flow (1)
32	51.91	107.02	Shut-In(1)
92	1095.14	106.65	End Shut-In(1)
93	55.51	106.68	Open To Flow (2)
152	86.31	111.16	Shut-In(2)
240	1088.06	111.09	End Shut-In(2)
242	1795.33	111.35	Final Hydro-static

Recovery

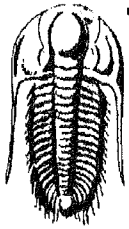
Length (ft)	Description	Volume (bbl)
150.00	SMCW 90%w 10%m	0.99
0.00	RW=.120 @ 40 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JUN 22 2009

TOOL DIAGRAM


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc

Fisher 'C' # 1-33

250 N. Water, Ste. 300
Wichita, KS 67202

33 22 15 Pawnee KS

Job Ticket: 32989

DST#: 2

ATTN: Terry McLeod

Test Start: 2009.03.12 @ 17:05:47

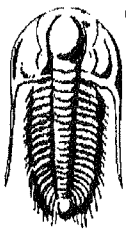
Tool Information

Drill Pipe:	Length: 3622.00 ft	Diameter: 3.80 inches	Volume: 50.81 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: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 72000.00 lb
			Total Volume: 51.41 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3734.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3716.00	
Hydraulic tool	5.00			3721.00	
Safety Joint	3.00			3724.00	
Packer	5.00			3729.00	23.00 Bottom Of Top Packer
Packer	5.00			3734.00	
Stubb	1.00			3735.00	
Recorder	0.00	6798	Inside	3735.00	
Recorder	0.00	8367	Inside	3735.00	
Perforations	17.00			3752.00	
Bullnose	3.00			3755.00	21.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc

Fisher 'C' # 1-33

250 N. Water, Ste. 300
Wichita, KS 67202

33 22 15 Pawnee KS

Job Ticket: 32989

DST#: 2

ATTN: Terry McLeod

Test Start: 2009.03.12 @ 17:05:47

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: 125000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 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
150.00	SMCW 90%w 10%m	0.993
0.00	RW= .120 @ 40 deg.	0.000

Total Length: 150.00 ft

Total Volume: 0.993 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

