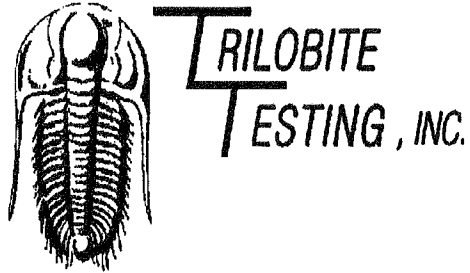


15-033-21550

33-32s-20w
CONFIDENTIAL

JUN 22 2009

KCC



DRILL STEM TEST REPORT

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

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

ATTN: Jeff Christian

33 32 20 Comanche KS

Shrauner A # 1-33

Start Date: 2009.03.21 @ 23:53:08

End Date: 2009.03.22 @ 09:10:08

Job Ticket #: 32990 DST #: 1

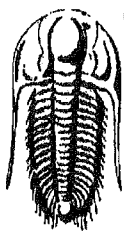
KANSAS CORPORATION COMMISSION

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: Jeff Christian

Shrauner A # 1-33

33 32 20 Comanche KS

Job Ticket: 32990

DST#:1

Test Start: 2009.03.21 @ 23:53:08

GENERAL INFORMATION:

Formation: **Lansing ' H '**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:38

Time Test Ended: 09:10:08

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **4565.00 ft (KB) To 4601.00 ft (KB) (TVD)**

Total Depth: 4601.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1849.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798 Inside

Press@RunDepth: 1513.93 psig @ 4566.00 ft (KB)

Start Date: 2009.03.21 End Date: 2009.03.22

Start Time: 23:53:09 End Time: 09:10:08

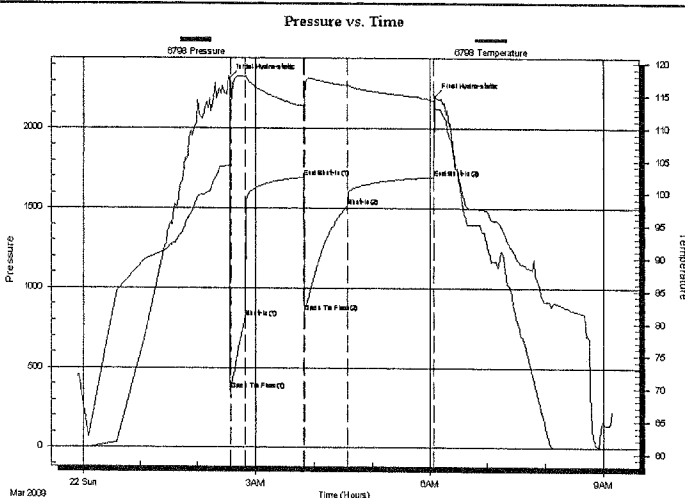
Capacity: 7000.00 psig

Last Calib.: 2009.03.22

Time On Btm: 2009.03.22 @ 02:32:38

Time Off Btm: 2009.03.22 @ 06:05:38

TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs.
IS: Weak to fair blow . B.O.B. in 31 mins. GTS in 12 mins. on shut in.
FF: Strong blow . B.O.B. in 1 min.
FS: Weak blow . Built to 4 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.32	104.29	Initial Hydro-static
1	357.89	111.77	Open To Flow (1)
16	811.24	117.82	Shut-In (1)
77	1695.71	113.40	End Shut-In (1)
78	848.45	114.73	Open To Flow (2)
121	1513.93	116.59	Shut-In (2)
212	1697.30	114.28	End Shut-In (2)
213	2200.54	113.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2858.00	SMCW 95%w 5%m	38.42
180.00	SG&WCM 10%g 15%w 75%m	2.52
0.00	1525' GIP	0.00
0.00	RW = .075 @ 61 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.50	5.95
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

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32990

DST#: 1

ATTN: Jeff Christian

Test Start: 2009.03.21 @ 23:53:08

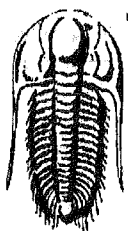
Tool Information

Drill Pipe:	Length: 4380.00 ft	Diameter: 3.80 inches	Volume: 61.44 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: 22000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 62.34 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4565.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	56.00 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			4550.00	
Hydraulic tool	5.00			4555.00	
Packer	5.00			4560.00	20.00 Bottom Of Top Packer
Packer	5.00			4565.00	
Stubb	1.00			4566.00	
Recorder	0.00	6798	Inside	4566.00	
Recorder	0.00	8367	Inside	4566.00	
Perforations	32.00			4598.00	
Bullnose	3.00			4601.00	36.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32990

DST#: 1

ATTN: Jeff Christian

Test Start: 2009.03.21 @ 23:53:08

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: 130000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2858.00	SMCW 95%w 5%m	38.423
180.00	SG&WCM 10%g 15%w 75%m	2.525
0.00	1525' GIP	0.000
0.00	RW = .075 @ 61 deg.	0.000

Total Length: 3038.00 ft

Total Volume: 40.948 bbl

Num Fluid Samples: 0

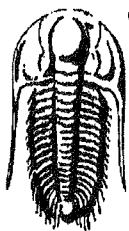
Num Gas Bombs: 1

Serial #: GA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32990

DST#: 1

ATTN: Jeff Christian

Test Start: 2009.03.21 @ 23:53:08

Gas Rates Information

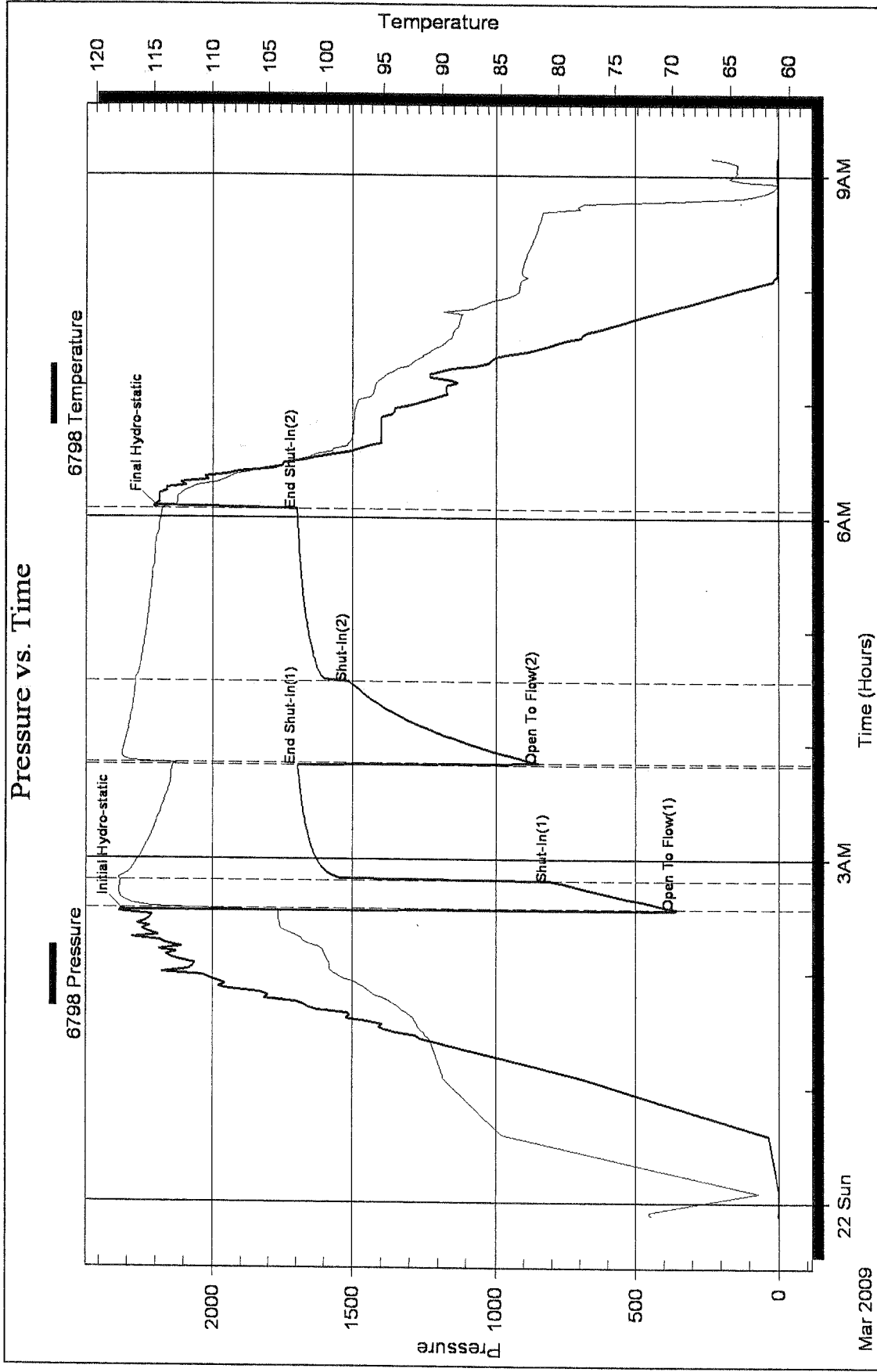
Temperature: 59 deg C

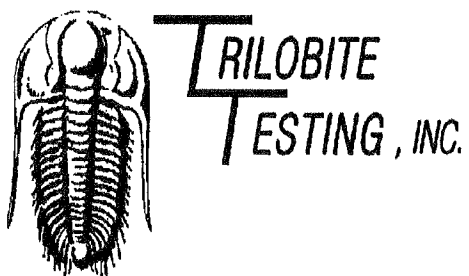
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	10	0.13	1.50	5.95
2	10	0.13	1.50	5.95
2	20	0.13	3.00	6.51
2	30	0.13	3.00	6.51
2	40	0.13	3.00	6.51





DRILL STEM TEST REPORT

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

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

ATTN: Jeff Christian

33 32 20 Comanche KS

Shrauner A # 1-33

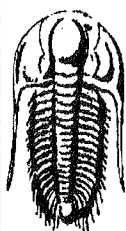
Start Date: 2009.03.23 @ 17:14:24

End Date: 2009.03.24 @ 01:43:54

Job Ticket #: 32991 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: Jeff Christian

Shrauner A # 1-33

33 32 20 Comanche KS

Job Ticket: 32991

DST#: 2

Test Start: 2009.03.23 @ 17:14:24

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:51:54

Time Test Ended: 01:43:54

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **5098.00 ft (KB) To 5150.00 ft (KB) (TVD)**

Total Depth: 5150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1849.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press@RunDepth: 667.45 psig @ 5110.00 ft (KB)

Start Date: 2009.03.23

End Date:

2009.03.24

Start Time: 17:14:25

End Time:

01:43:54

Capacity: 7000.00 psig

Last Calib.: 2009.03.24

Time On Btm: 2009.03.23 @ 19:49:54

Time Off Btm: 2009.03.23 @ 23:24:24

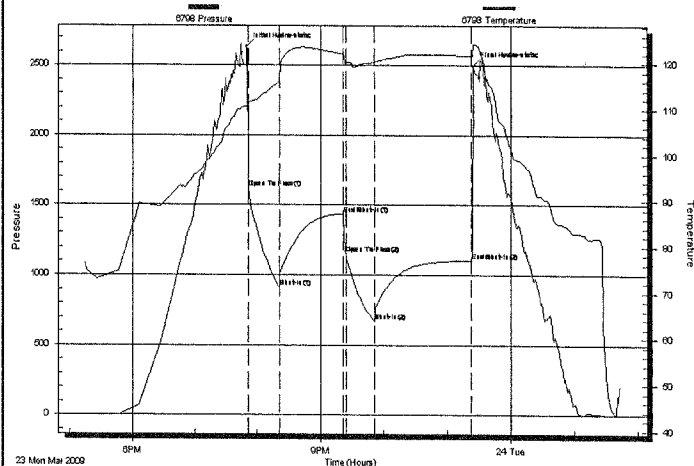
TEST COMMENT: IF: Very strong blow . B.O.B. immediately. GTS in 1 1/2 mins. (see gas flow report.)

ISI: Weak blow . Built to 4".

FF: Very strong blow . B.O.B. immediately.

FSI: Weak blow . Built to 4".

Pressure vs. Time



PRESSURE SUMMARY

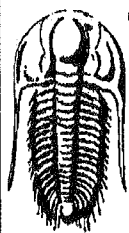
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2634.49	110.71	Initial Hydro-static
2	1623.38	111.27	Open To Flow (1)
31	911.11	115.99	Shut-In(1)
92	1437.24	122.10	End Shut-In(1)
94	1149.70	120.29	Open To Flow (2)
122	667.45	120.24	Shut-In(2)
213	1105.64	121.78	End Shut-In(2)
215	2498.39	124.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SG&WCM 10%g 5%w 85% m	0.10
0.00	5076' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	200.00	6163.75
Last Gas Rate	1.00	110.00	3576.35
Max. Gas Rate	1.00	200.00	6163.75



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32991

DST#: 2

ATTN: Jeff Christian

Test Start: 2009.03.23 @ 17:14:24

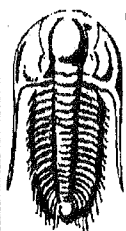
Tool Information

Drill Pipe:	Length: 4913.00 ft	Diameter: 3.80 inches	Volume: 68.92 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 69.82 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	5098.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			5083.00	
Hydraulic tool	5.00			5088.00	
Packer	5.00			5093.00	20.00 Bottom Of Top Packer
Packer	5.00			5098.00	
Stubb	1.00			5099.00	
Perforations	10.00			5109.00	
Change Over Sub	1.00			5110.00	
Recorder	0.00	6798	Inside	5110.00	
Recorder	0.00	8367	Inside	5110.00	
Blank Spacing	32.00			5142.00	
Change Over Sub	1.00			5143.00	
Perforations	4.00			5147.00	
Bullnose	3.00			5150.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32991

DST#: 2

ATTN: Jeff Christian

Test Start: 2009.03.23 @ 17:14:24

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SG&WCM 10%g 5%w 85%m	0.098
0.00	5076' GIP	0.000

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GA-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32991

DST#: 2

ATTN: Jeff Christian

Test Start: 2009.03.23 @ 17:14:24

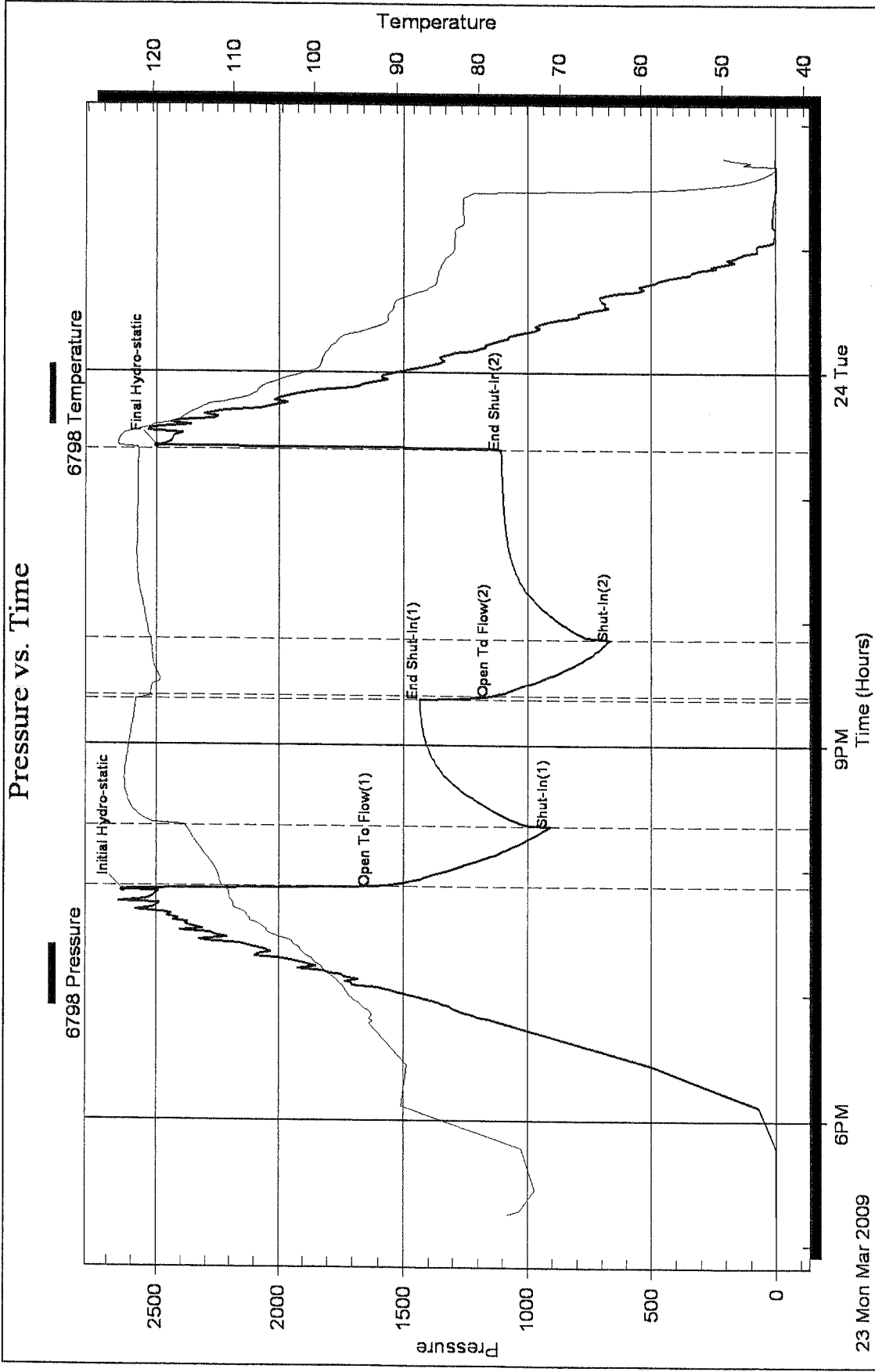
Gas Rates Information

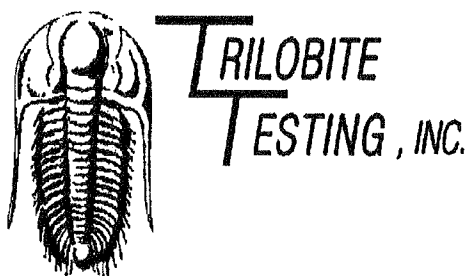
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	1.00	200.00	6163.75
1	10	1.00	200.00	6163.75
1	20	1.00	180.00	5588.77
1	30	1.00	150.00	4726.31
2	10	1.00	160.00	5013.79
2	30	1.00	110.00	3576.35

Pressure vs. Time





DRILL STEM TEST REPORT

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

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

ATTN: Jeff Christian

33 32 20 Comanche KS

Shrauner A # 1-33

Start Date: 2009.03.24 @ 12:07:03

End Date: 2009.03.24 @ 23:10:03

Job Ticket #: 32992 DST #: 3

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

ATTN: Jeff Christian

33 32 20 Comanche KS

Job Ticket: 32992

DST#: 3

Test Start: 2009.03.24 @ 12:07:03

Formation: Morrow Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:01:03

Time Test Ended: 23:10:03

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: 5150.00 ft (KB) To 5170.00 ft (KB) (TVD)

Total Depth: 5170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1849.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press@RunDepth: 229.27 psig @ 5151.00 ft (KB)

Start Date: 2009.03.24

End Date: 2009.03.24

Start Time: 12:07:04

End Time: 23:10:03

Capacity: 7000.00 psig

Last Calib.: 2009.03.24

Time On Btm: 2009.03.24 @ 15:59:33

Time Off Btm: 2009.03.24 @ 19:41:03

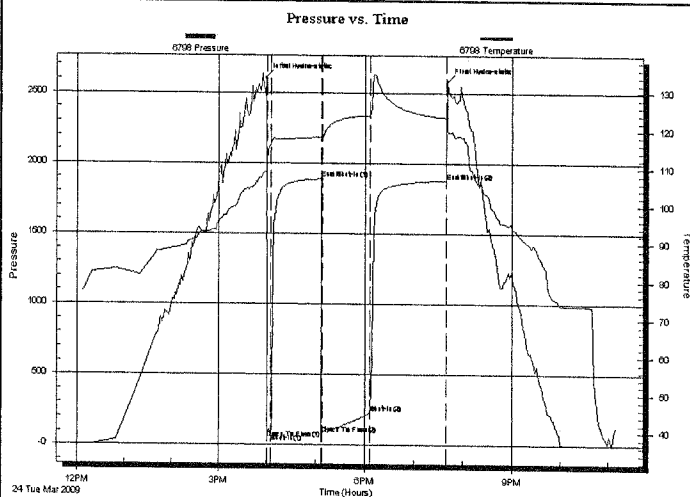
TEST COMMENT:

IF: Strongblow . BOB in 15 secs.

ISI: Very weak surface blow. Dead in 25 mins.

FF: Strong blow. BOB in 2 mins. GTS in 39 mins. (see gas flow report.)

FSt:Fair blow . Built to 9".



PRESSURE SUMMARY

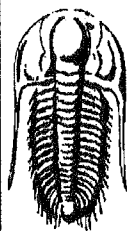
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2606.69	109.00	Initial Hydro-static
2	45.50	111.87	Open To Flow (1)
7	76.79	116.66	Shut-In(1)
68	1887.78	118.16	End Shut-In(1)
69	75.80	117.79	Open To Flow(2)
127	229.27	123.66	Shut-In(2)
220	1879.01	123.30	End Shut-In(2)
222	2580.98	120.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
376.00	MCW 75%w 25%m	3.61
62.00	SG&WCM 10%g 5%w 85%m	0.87
62.00	SGCM 10%g 90%m	0.87
0.00	4659' GIP	0.00
0.00	RW = .090 @ 46 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.50	6.70
Last Gas Rate	0.13	18.00	12.13
Max. Gas Rate	0.13	18.00	12.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

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

ATTN: Jeff Christian

Shrauner A # 1-33

33 32 20 Comanche KS

Job Ticket: 32992

DST#: 3

Test Start: 2009.03.24 @ 12:07:03

Tool Information

Drill Pipe:	Length: 4976.00 ft	Diameter: 3.80 inches	Volume: 69.80 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: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 70.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	5150.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			5135.00	
Hydraulic tool	5.00			5140.00	
Packer	5.00			5145.00	20.00 Bottom Of Top Packer
Packer	5.00			5150.00	
Stubb	1.00			5151.00	
Recorder	0.00	6798	Inside	5151.00	
Recorder	0.00	8367	Inside	5151.00	
Perforations	16.00			5167.00	
Bullnose	3.00			5170.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32992

DST#: 3

ATTN: Jeff Christian

Test Start: 2009.03.24 @ 12:07:03

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: 155000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
376.00	MCW 75%w 25%m	3.607
62.00	SG&WCM 10%g 5%w 85%m	0.870
62.00	SGCM 10%g 90%m	0.870
0.00	4659' GIP	0.000
0.00	RW = .090 @ 46 deg.	0.000

Total Length: 500.00 ft

Total Volume: 5.347 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GA-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32992

DST#: 3

ATTN: Jeff Christian

Test Start: 2009.03.24 @ 12:07:03

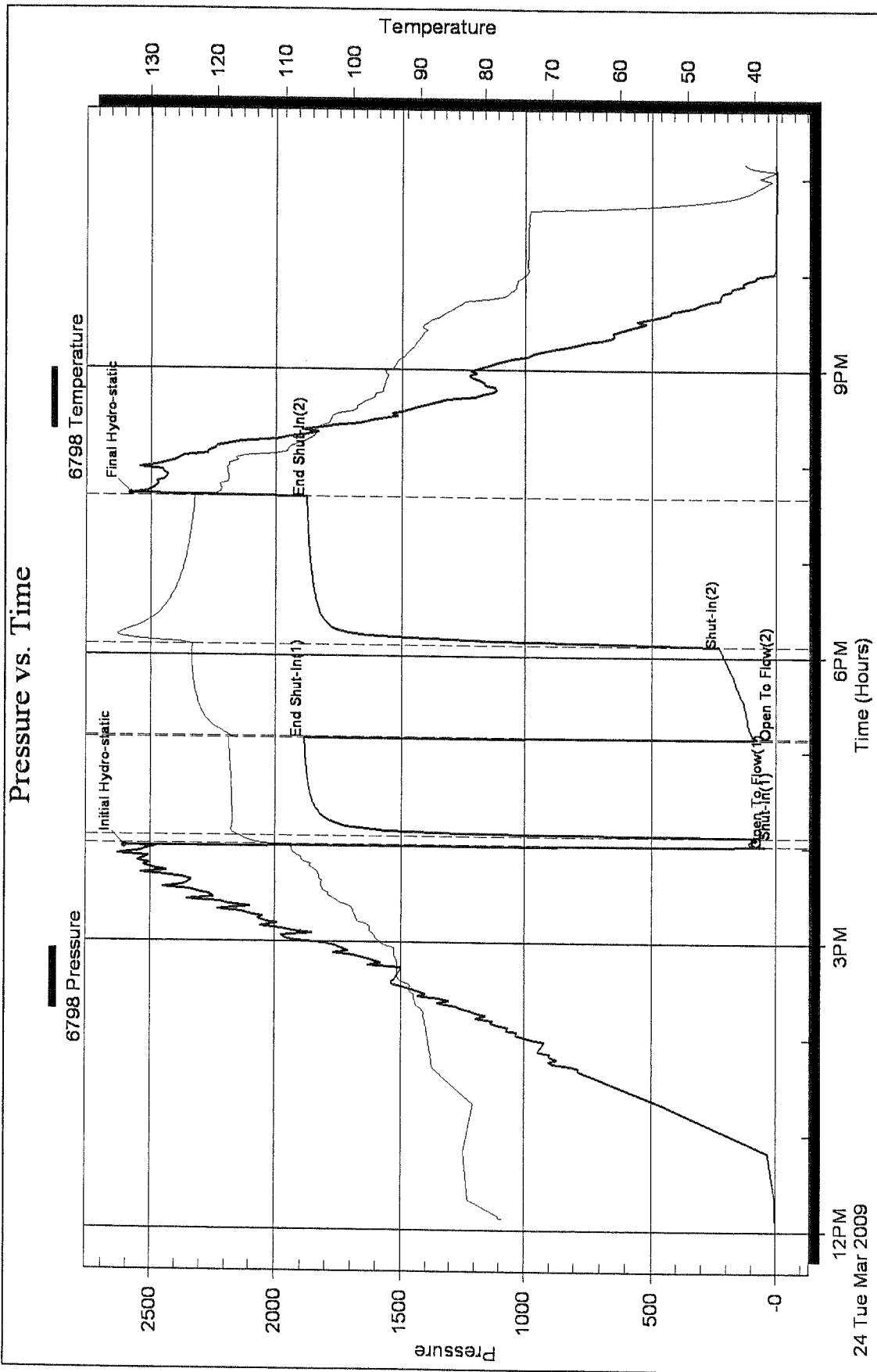
Gas Rates Information

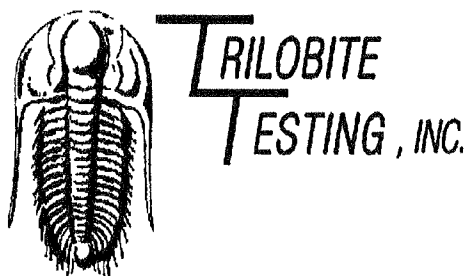
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	45	0.13	3.50	6.70
2	50	0.13	7.50	8.20
2	55	0.13	12.00	9.88
2	60	0.13	18.00	12.13

Pressure vs. Time





DRILL STEM TEST REPORT

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

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

ATTN: Jeff Christian

33 32 20 Comanche KS

Shrauner A # 1-33

Start Date: 2009.03.26 @ 02:02:19

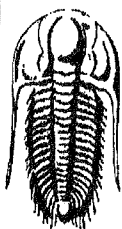
End Date: 2009.03.26 @ 11:05:19

Job Ticket #: 32993 DST #: 4

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: Jeff Christian

Shrauner A # 1-33

33 32 20 Comanche KS

Job Ticket: 32993

DST#: 4

Test Start: 2009.03.26 @ 02:02:19

GENERAL INFORMATION:

Formation: **Morrow Sand/Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:36:49

Time Test Ended: 11:05:19

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **5187.00 ft (KB) To 5300.00 ft (KB) (TVD)**

Total Depth: 5300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1849.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798 Inside

Press@RunDepth: 197.47 psig @ 5194.00 ft (KB)

Start Date: 2009.03.26

End Date:

2009.03.26

Start Time: 02:02:20

End Time:

11:05:19

Capacity: 7000.00 psig

Last Calib.: 2009.03.26

Time On Btm: 2009.03.26 @ 04:35:19

Time Off Btm: 2009.03.26 @ 08:13:19

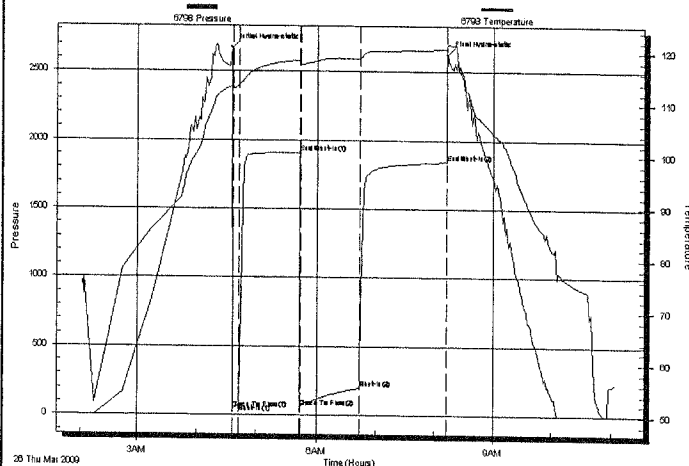
TEST COMMENT: IF: Strong blow . BOB in 30 secs.

IS: Fair blow . Built to 9".

FF: Strong blow . BOB immediately . GTS in 7 mins. (see gas flow report.)

FSI: Fair blow . BOB in 75 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2673.35	113.56	Initial Hydro-static
2	45.76	113.11	Open To Flow (1)
8	75.68	113.70	Shut-In(1)
67	1909.30	118.45	End Shut-In(1)
69	61.00	117.74	Open To Flow (2)
128	197.47	118.75	Shut-In(2)
217	1841.82	120.61	End Shut-In(2)
218	2625.90	121.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
183.00	SMCW 90%w 10%m	0.90
247.00	HG&WCM 15%g 15%w 70%m	3.46
20.00	SGCM 4%g 96%m	0.28
0.00	4740' GIP	0.00
0.00	RW = .088 @ 49 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	25.00	62.50
Max. Gas Rate	0.25	25.00	62.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32993

DST#: 4

ATTN: Jeff Christian

Test Start: 2009.03.26 @ 02:02:19

Tool Information

Drill Pipe:	Length: 5007.00 ft	Diameter: 3.80 inches	Volume: 70.24 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:	20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 71.14 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	5187.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	113.00 ft				
Tool Length:	133.00 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			5172.00	
Hydraulic tool	5.00			5177.00	
Packer	5.00			5182.00	20.00 Bottom Of Top Packer
Packer	5.00			5187.00	
Stubb	1.00			5188.00	
Perforations	5.00			5193.00	
Change Over Sub	1.00			5194.00	
Recorder	0.00	6798	Inside	5194.00	
Recorder	0.00	8367	Inside	5194.00	
Blank Spacing	94.00			5288.00	
Change Over Sub	1.00			5289.00	
Perforations	8.00			5297.00	
Bullnose	3.00			5300.00	113.00 Bottom Packers & Anchor

Total Tool Length: 133.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32993

DST#: 4

ATTN: Jeff Christian

Test Start: 2009.03.26 @ 02:02:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.15 in³

Resistivity: 0.00 ohm.m

Salinity: 8500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 160000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	SMCW 90%w 10%m	0.900
247.00	HG&WCM 15%g 15%w 70%m	3.465
20.00	SGCM 4%g 96%m	0.281
0.00	4740' GIP	0.000
0.00	RW = .088 @ 49 deg.	0.000

Total Length: 450.00 ft

Total Volume: 4.646 bbl

Num Fluid Samples: 0

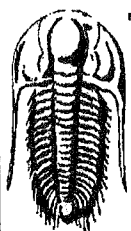
Num Gas Bombs: 1

Serial #: GA-4

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Murfin Drilling Company, Inc

Shrauner A # 1-33

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

33 32 20 Comanche KS

Job Ticket: 32993

DST#: 4

ATTN: Jeff Christian

Test Start: 2009.03.26 @ 02:02:19

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	0.25	5.00	30.78
2	10	0.25	5.00	30.78
2	20	0.25	13.00	43.47
2	30	0.25	22.00	57.75
2	40	0.25	24.00	60.92
2	60	0.25	25.00	62.50

234395

DST Test Number: 4

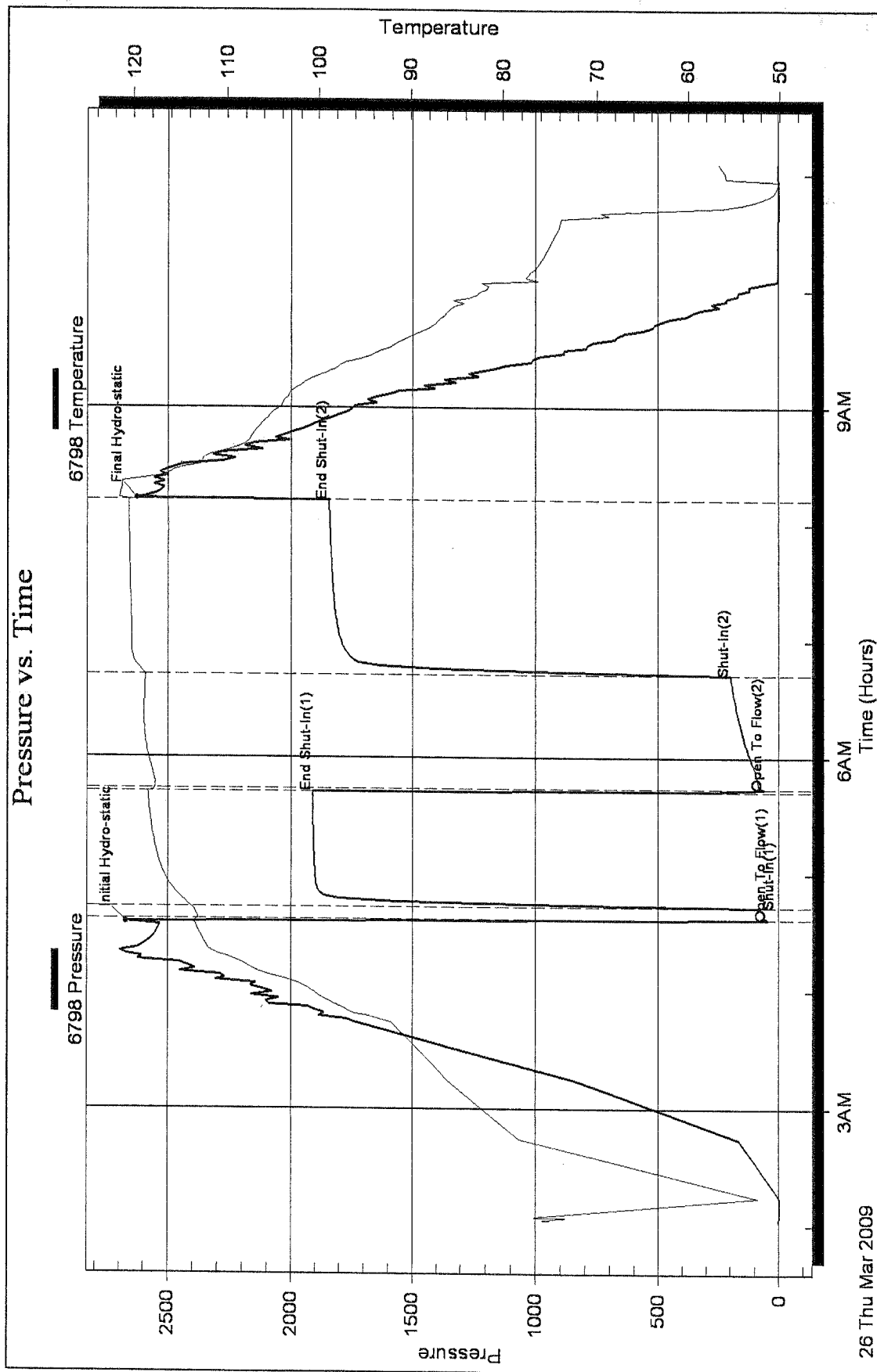
33 32 20 Comanche KS

Murfin Drilling Company, Inc

Inside

Serial #: 6798

Pressure vs. Time



Ref. No: 32993

Tribite Testing, Inc

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