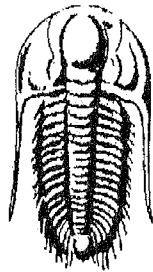


15-185-23304

11-21s-13w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

CONFIDENTIAL

P.O. Box 2758
Wichita, Kansas.
67201-2758

ORIGINAL

ATTN: Roger Martin

11-21S-13W

KCC
MAY 06 2005

Hall "G" #1-11

CONFIDENTIAL

Start Date: 2005.03.26 @ 14:46:55

End Date: 2005.03.26 @ 21:45:10

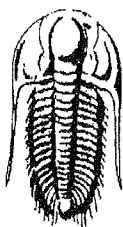
Job Ticket #: 19983

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758
ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19983

DST#: 1

Test Start: 2005.03.26 @ 14:46:55

GENERAL INFORMATION:

Formation: **Lansing A-D**

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

Time Tool Opened: 16:34:40

Time Test Ended: 21:45:10

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **3262.00 ft (KB) To 3337.00 ft (KB) (TVD)**

Total Depth: **3337.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1872.00 ft (KB)**

1863.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: **8017**

Inside

Press@RunDepth: **43.52 psig @ 3271.00 ft (KB)**

Start Date: **2005.03.26**

End Date:

2005.03.26

Capacity: **7000.00 psig**

Last Calib.: **2005.03.26**

Start Time: **14:46:56**

End Time:

21:45:10

Time On Btm: **2005.03.26 @ 16:33:55**

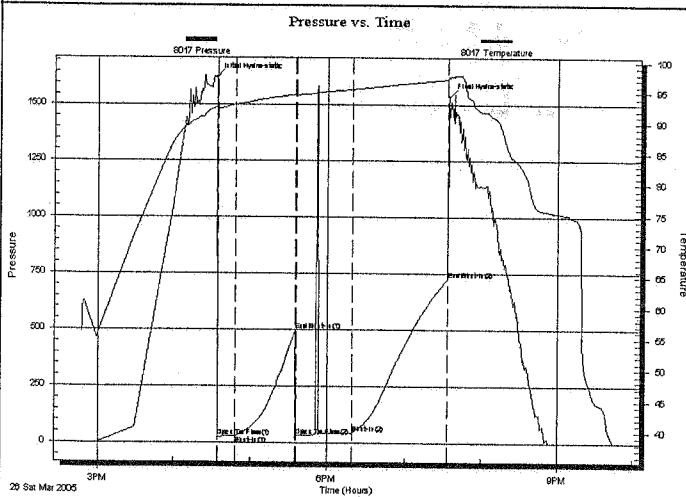
Time Off Btm: **2005.03.26 @ 19:34:25**

TEST COMMENT: IF: Weak blow built to 1" in H2O bucket.

IS: Bled down for 1 min. no blow back.

FF: Dead blow wait 10 mins flush tool weak surface blow.

FS: No blow back.



PRESSURE SUMMARY

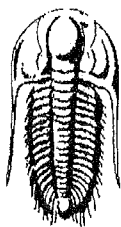
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.55	92.61	Initial Hydro-static
1	25.49	92.32	Open To Flow (1)
15	29.44	93.02	Shut-In(1)
61	493.93	94.68	End Shut-In(1)
62	31.33	94.59	Open To Flow (2)
106	43.52	95.53	Shut-In(2)
180	725.11	97.19	End Shut-In(2)
181	1539.36	97.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
30.00	SGCM 10% gas 90% mud	0.15
0.00	trace of oil	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19983

DST#: 1

67201-2758

Test Start: 2005.03.26 @ 14:46:55

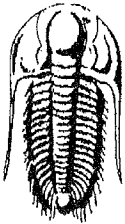
ATTN: Roger Martin

Tool Information

Drill Pipe:	Length: 2991.00 ft	Diameter: 3.80 inches	Volume: 41.96 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 43.18 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3262.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	104.00 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			3234.00	
Shut In Tool	5.00			3239.00	
Hydraulic tool	5.00			3244.00	
Jars	5.00			3249.00	
Safety Joint	3.00			3252.00	
Packer	5.00			3257.00	29.00 Bottom Of Top Packer
Packer	5.00			3262.00	
Stubb	1.00			3263.00	
Perforations	8.00			3271.00	
Recorder	0.00	8017	Inside	3271.00	
Blank Spacing	63.00			3334.00	
Recorder	0.00	10332	Outside	3334.00	
Bullnose	3.00			3337.00	75.00 Bottom Packers & Anchor

Total Tool Length: 104.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758

11-21S-13W

Job Ticket: 19983

DST#: 1

ATTN: Roger Martin

Test Start: 2005.03.26 @ 14:46:55

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.15 in³

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
30.00	SGCM 10%gas 90%mud	0.148
0.00	trace of oil	0.000

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8017

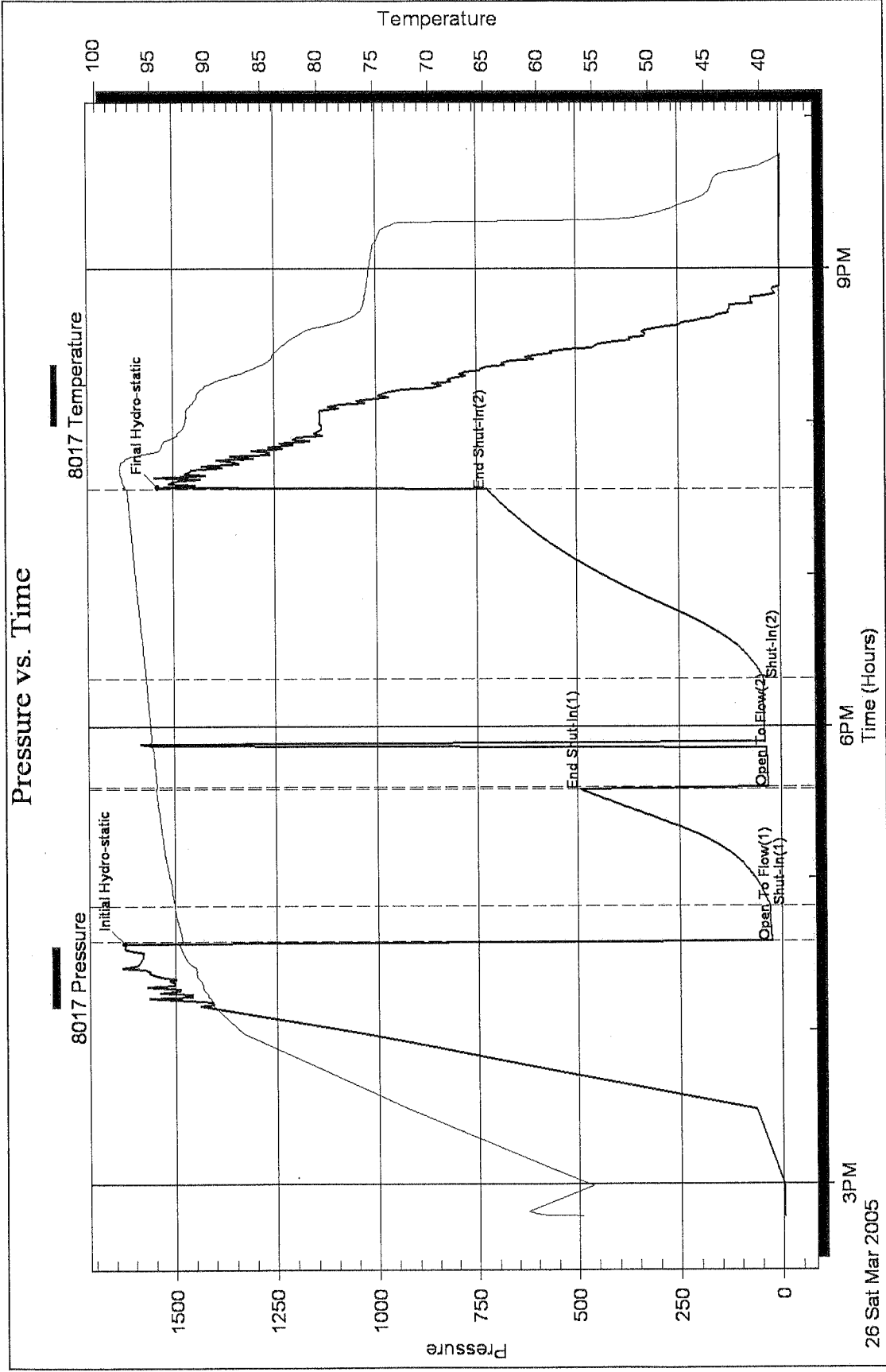
Inside

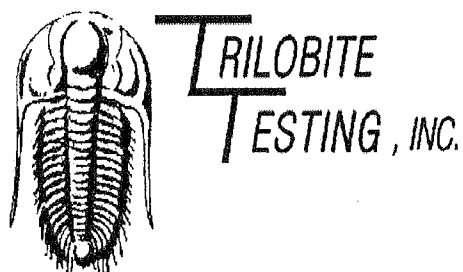
Mull Drilling company, Inc

11-21S-13W

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita,Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

Hall "G"#1-11

Start Date: 2005.03.27 @ 07:19:56

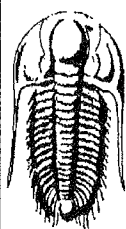
End Date: 2005.03.27 @ 14:53:26

Job Ticket #: 19984 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

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas,
67201-2758

ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19984

DST#: 2

Test Start: 2005.03.27 @ 07:19:56

GENERAL INFORMATION:

Formation: **Lansing F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:11

Time Test Ended: 14:53:26

Interval: **3328.00 ft (KB) To 3368.00 ft (KB) (TVD)**

Total Depth: **3368.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Darren I. Amerine

Unit No: 30

Reference Elevations: 1872.00 ft (KB)

1863.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8017**

Inside

Press@RunDepth: 56.60 psig @ 3334.00 ft (KB)

Start Date: 2005.03.27

End Date:

2005.03.27

Start Time: 07:19:57

End Time:

14:53:26

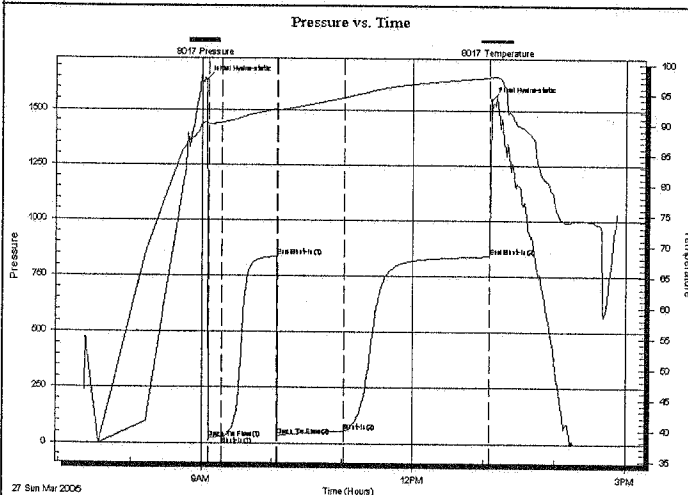
Capacity: 7000.00 psig

Last Calib.: 2005.03.27

Time On Btmr: 2005.03.27 @ 09:03:56

Time Off Btmr: 2005.03.27 @ 13:06:41

TEST COMMENT: IF: Weak blow built to 1-1/2" in H₂O.
IS: Bled down for 8 mins. no blow back.
FF: Weak surface blow built to 1-1/4" in H₂O.
FS: Bled down for 2 mins. no blow back.



PRESSURE SUMMARY

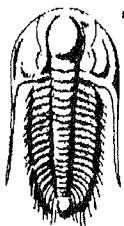
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.94	90.35	Initial Hydro-static
2	20.34	90.02	Open To Flow (1)
13	28.47	90.26	Shut-In (1)
60	838.85	92.49	End Shut-In (1)
61	34.62	92.33	Open To Flow (2)
118	56.60	94.42	Shut-In (2)
242	839.39	97.84	End Shut-In (2)
243	1546.34	98.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
80.00	G&OCVM 10% gas 10% oil 10% w ater 70% 0.39d	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758

11-21S-13W

Job Ticket: 19984

DST #: 2

ATTN: Roger Martin

Test Start: 2005.03.27 @ 07:19:56

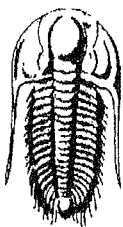
Tool Information

Drill Pipe:	Length: 3055.00 ft	Diameter: 3.80 inches	Volume: 42.85 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	44.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3328.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	69.00 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			3300.00		
Shut In Tool	5.00			3305.00		
Hydraulic tool	5.00			3310.00		
Jars	5.00			3315.00		
Safety Joint	3.00			3318.00		
Packer	5.00			3323.00	29.00	Bottom Of Top Packer
Packer	5.00			3328.00		
Stubb	1.00			3329.00		
Anchor	5.00			3334.00		
Recorder	0.00	8017	Inside	3334.00		
Blank Spacing	31.00			3365.00		
Recorder	0.00	10332	Outside	3365.00		
Bullnose	3.00			3368.00	40.00	Bottom Packers & Anchor

Total Tool Length: 69.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19984

DST #: 2

67201-2758

Test Start: 2005.03.27 @ 07:19:56

ATTN: Roger Martin

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
80.00	G&OCWM 10%gas 10%oil 10%water 70%mu	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

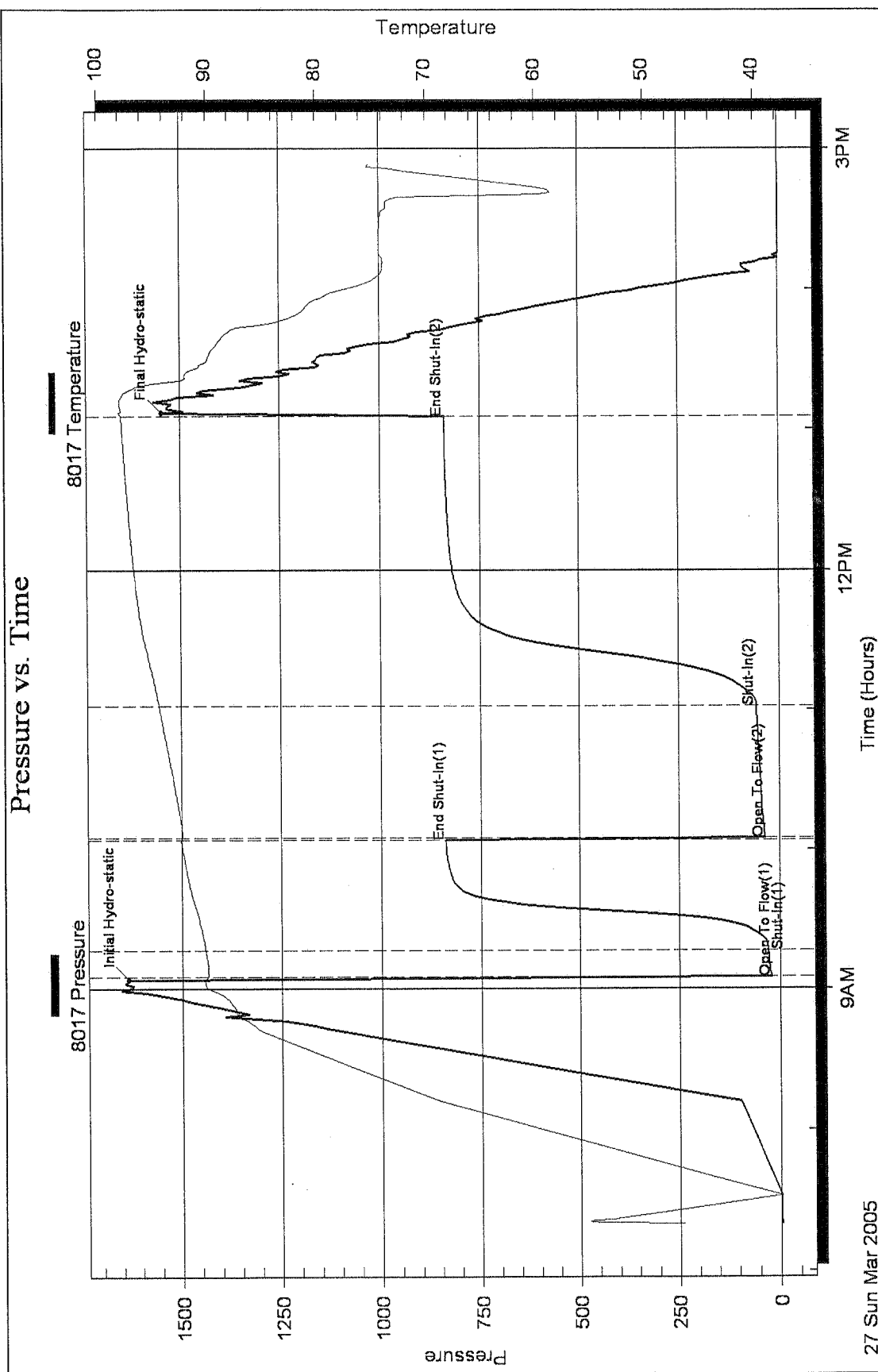
Serial #:

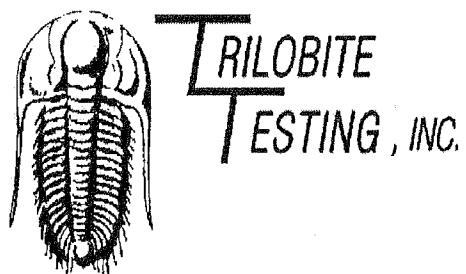
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita,Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

Hall "G"#1-11

Start Date: 2005.03.27 @ 23:54:29

End Date: 2005.03.28 @ 08:00:13

Job Ticket #: 19985 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

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758

ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19985

DST #: 3

Test Start: 2005.03.27 @ 23:54:29

GENERAL INFORMATION:

Formation: **Lansing H-I**

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

Time Tool Opened: 02:16:58

Time Test Ended: 08:00:13

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **3388.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Total Depth: **3430.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1872.00 ft (KB)**

1863.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 8017

Inside

Press@RunDepth: **27.60 psig @ 3396.00 ft (KB)**

Start Date: **2005.03.27**

End Date:

2005.03.28

Start Time: **23:54:29**

End Time:

08:00:13

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2005.03.28 @ 02:15:58**

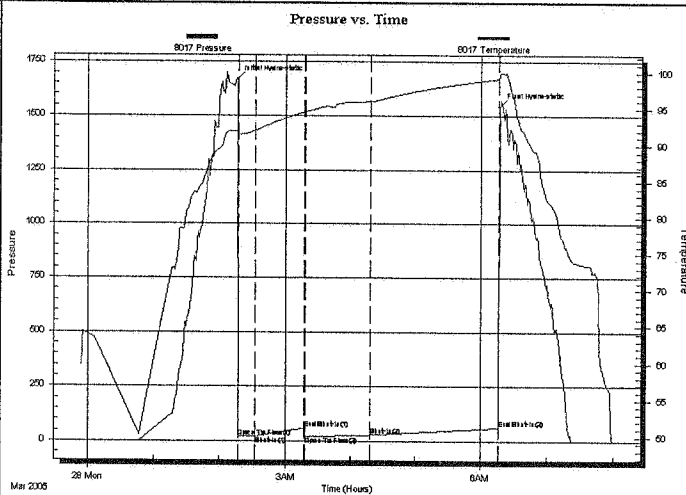
Time Off Btm: **2005.03.28 @ 06:16:28**

TEST COMMENT: IF: Weak surface blow built to 1/4" in H₂O.

IS: No blow back.

FF: Weak surface blow died in 25 mins. flush tool weak blow 1/4".

FSt: No blw back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.65	91.89	Initial Hydro-static
1	19.09	91.55	Open To Flow (1)
17	21.07	92.08	Shut-In(1)
61	58.84	94.55	End Shut-In(1)
62	22.37	94.57	Open To Flow (2)
122	27.60	95.97	Shut-In(2)
240	61.18	99.15	End Shut-In(2)
241	1543.82	99.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
30.00	SGCM 10% gas 90% mud	0.15

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19985

DST#: 3

67201-2758

Test Start: 2005.03.27 @ 23:54:29

ATTN: Roger Martin

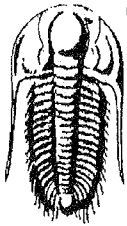
Tool Information

Drill Pipe:	Length: 3117.00 ft	Diameter: 3.80 inches	Volume: 43.72 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 44.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3388.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	71.00 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			3360.00	
Shut In Tool	5.00			3365.00	
Hydraulic tool	5.00			3370.00	
Jars	5.00			3375.00	
Safety Joint	3.00			3378.00	
Packer	5.00			3383.00	29.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Anchor	7.00			3396.00	
Recorder	0.00	8017	Inside	3396.00	
Drill Pipe	31.00			3427.00	
Recorder	0.00	10332	Outside	3427.00	
Bullnose	3.00			3430.00	42.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758

11-21S-13W

Job Ticket: 19985

DST#: 3

ATTN: Roger Martin

Test Start: 2005.03.27 @ 23:54:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 9.17 in³

Resistivity: 0.90 ohm.m

Salinity: 8500.00 ppm

Filter Cake: 0.32 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
30.00	SGCM 10%gas 90%mud	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

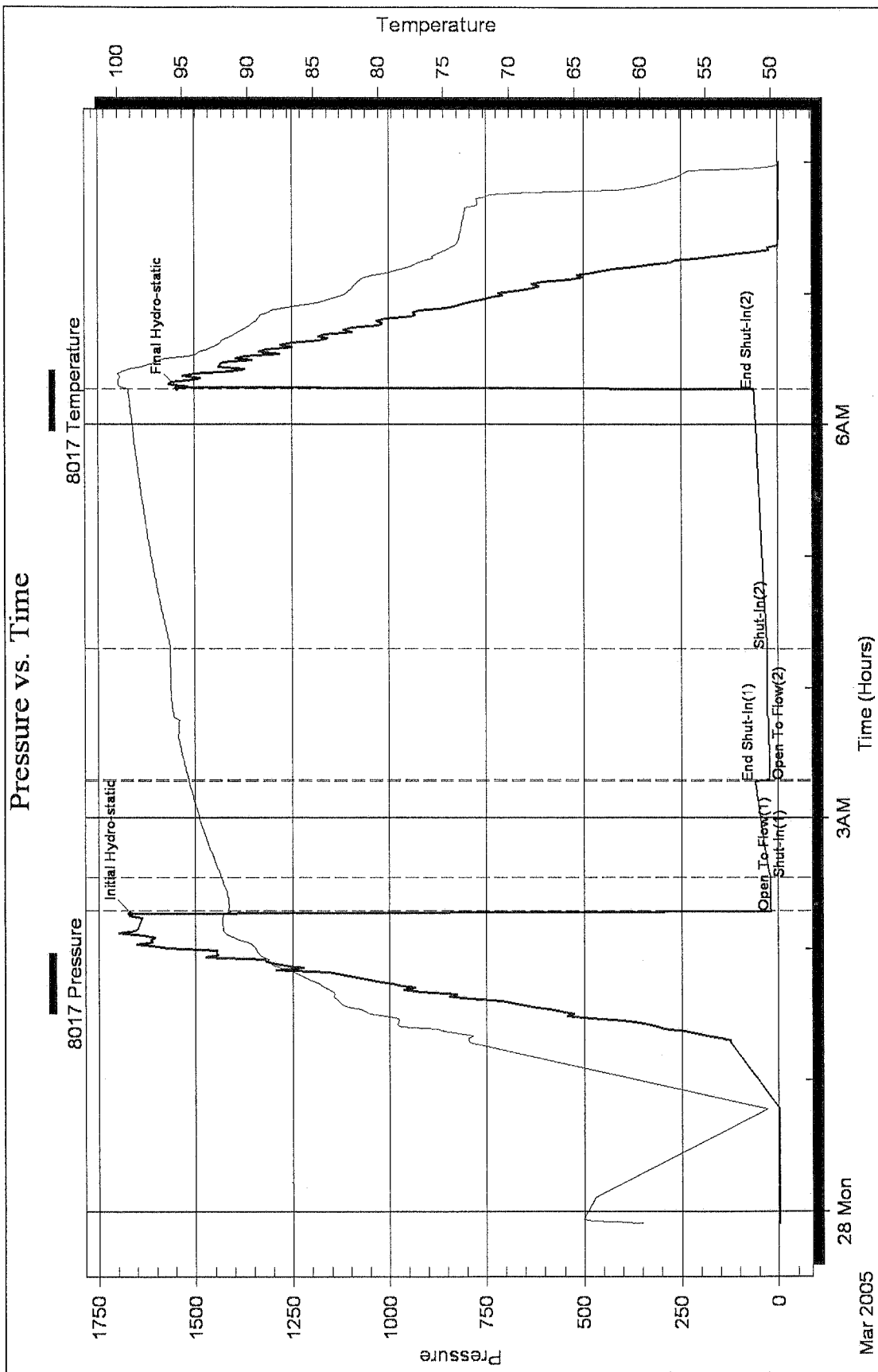
Serial #:

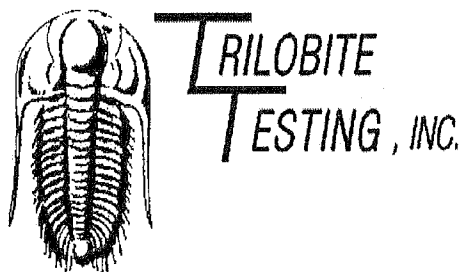
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita,Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

Hall "G"#1-11

Start Date: 2005.03.28 @ 19:02:21

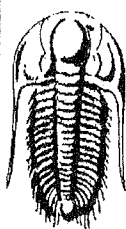
End Date: 2005.03.29 @ 03:12:51

Job Ticket #: 19986 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

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758

ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19986

DST#: 4

Test Start: 2005.03.28 @ 19:02:21

GENERAL INFORMATION:

Formation: **Lansing J-K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:55:21

Time Test Ended: 03:12:51

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 30

Interval: **3421.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Total Depth: **3520.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **1872.00 ft (KB)**

1863.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 8017

Outside

Press@RunDepth: **47.06 psig @ 3430.00 ft (KB)**

Start Date: **2005.03.28**

End Date:

2005.03.29

Start Time: **19:02:22**

End Time:

03:12:51

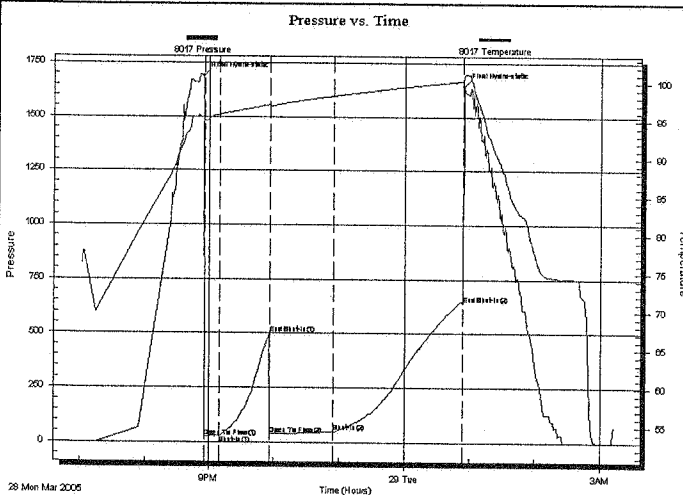
Capacity: **7000.00 psig**

Last Calib.: **2005.03.29**

Time On Btm: **2005.03.28 @ 20:55:06**

Time Off Btm: **2005.03.29 @ 00:54:21**

TEST COMMENT: IF: Weak blow built to 1-1/4" in H₂O
IS: Bled down for 5 mins. no blow back.
FF: Weak blow built to 1-1/4" in H₂O.
FS: Bled down for 5 mins. no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.96	95.45	Initial Hydro-static
1	23.13	94.97	Open To Flow (1)
15	29.56	95.81	Shut-In(1)
61	499.74	97.07	End Shut-In(1)
62	34.17	96.90	Open To Flow (2)
121	47.06	98.22	Shut-In(2)
239	639.86	100.20	End Shut-In(2)
240	1643.87	100.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
65.00	G&OCM 20% gas 20% oil 60% mud	0.32

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19986

DST#: 4

67201-2758

Test Start: 2005.03.28 @ 19:02:21

ATTN: Roger Martin

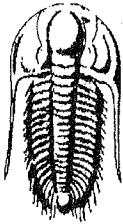
Tool Information

Drill Pipe:	Length: 3177.00 ft	Diameter: 3.80 inches	Volume: 44.56 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 45.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3421.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	99.00 ft				
Tool Length:	128.00 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			3393.00	
Shut In Tool	5.00			3398.00	
Hydraulic tool	5.00			3403.00	
Jars	5.00			3408.00	
Safety Joint	3.00			3411.00	
Packer	5.00			3416.00	29.00 Bottom Of Top Packer
Packer	5.00			3421.00	
Stubb	2.00			3423.00	
Perforations	7.00			3430.00	
Recorder	0.00	8017	Outside	3430.00	
Perforations	24.00			3454.00	
Drill Pipe	63.00			3517.00	
Recorder	0.00	10332	Outside	3517.00	
Bullnose	3.00			3520.00	99.00 Bottom Packers & Anchor

Total Tool Length: 128.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758

11-21S-13W

Job Ticket: 19986

DST#: 4

ATTN: Roger Martin

Test Start: 2005.03.28 @ 19:02:21

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.70 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
65.00	G&OCM 20%gas 20%oil 60%mud	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

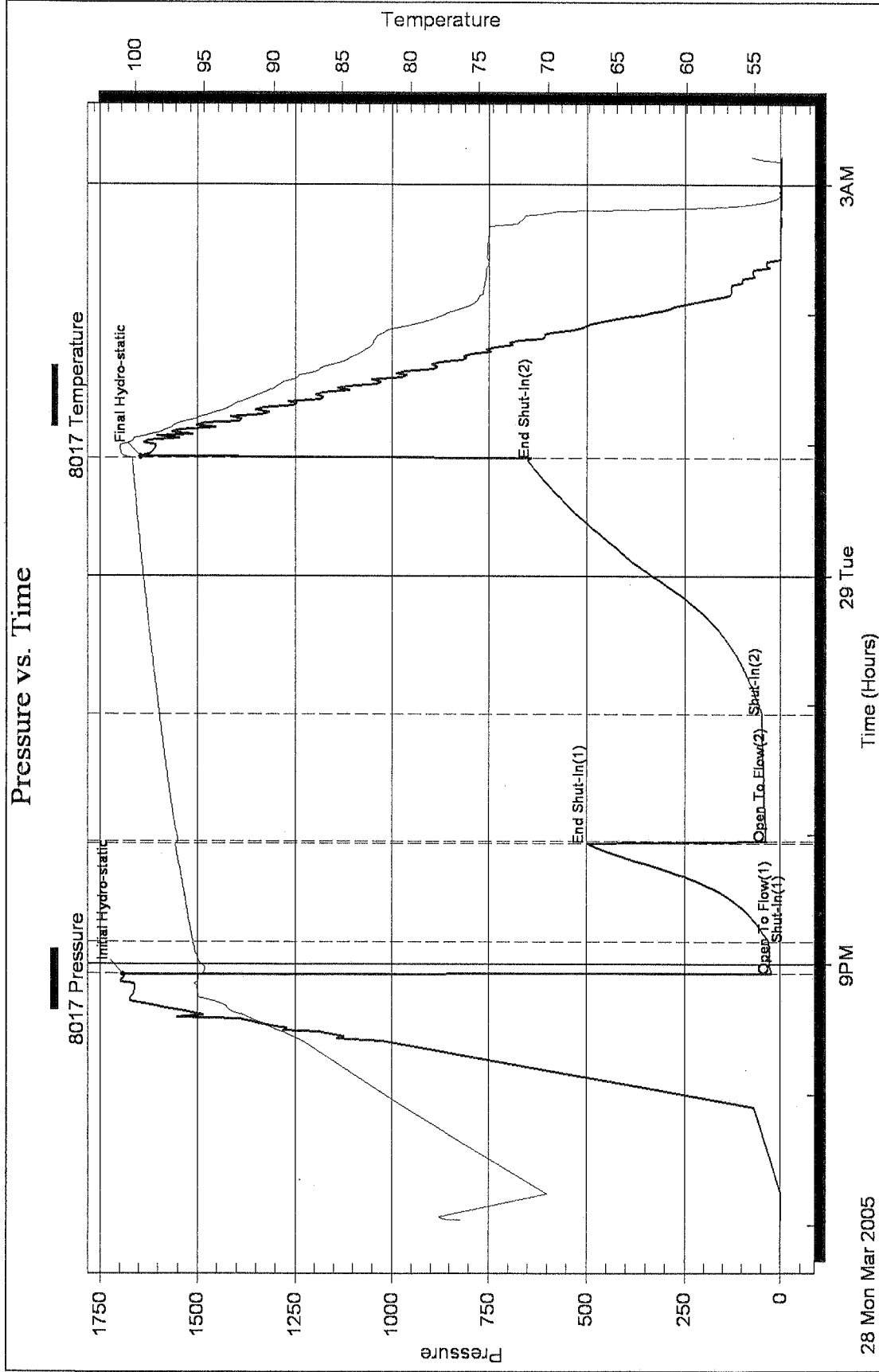
Serial #: 8017

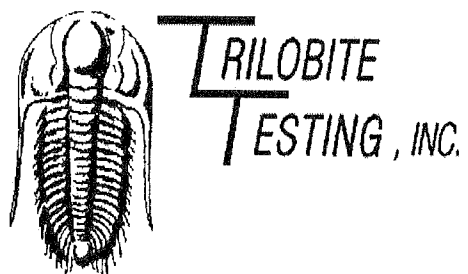
Outside Mull Drilling company, Inc

11-21S-13W

DST Test Number: 4

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita,Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

Hall "G"#1-11

Start Date: 2005.03.29 @ 11:05:32

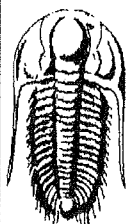
End Date: 2005.03.29 @ 19:33:32

Job Ticket #: 19987 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758
ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19987

DST#: 5

Test Start: 2005.03.29 @ 11:05:32

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:15:47
Time Test Ended: 19:33:32

Test Type: Conventional Bottom Hole
Tester: Darren L. Amerine
Unit No: 30

Interval: **3485.00 ft (KB) To 3551.00 ft (KB) (TVD)**
Total Depth: 3551.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

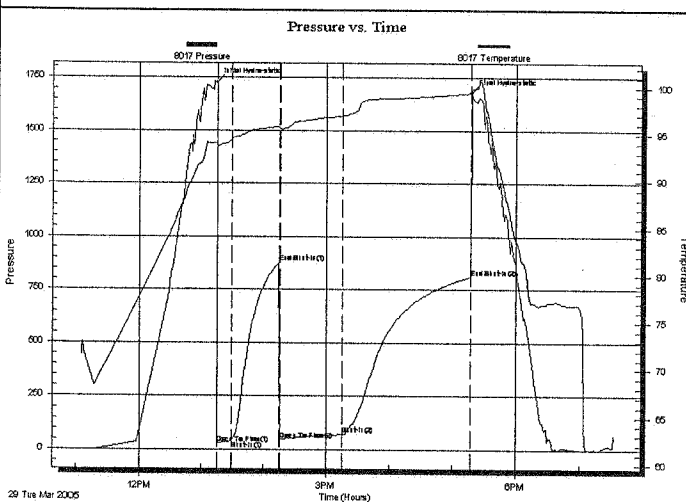
Reference Elevations: 1872.00 ft (KB)
1863.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8017 Inside

Press@RunDepth: 71.67 psig @ 3493.00 ft (KB)
Start Date: 2005.03.29 End Date: 2005.03.29
Start Time: 11:05:33 End Time: 19:33:32

Capacity: 7000.00 psig
Last Calib.: 2005.03.29
Time On Btm: 2005.03.29 @ 13:15:17
Time Off Btm: 2005.03.29 @ 17:17:47

TEST COMMENT: IF: Weak blow built to 1-1/2" in H₂O.
IS: Bled down for 2 mins. no blow back.
FF: Weak surface blow built to 2-1/4" in H₂O.
FS: Bled down for 2 mins. no blow back.



PRESSURE SUMMARY

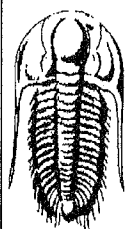
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.10	94.13	Initial Hydro-static
1	26.89	93.76	Open To Flow (1)
15	39.97	94.49	Shut-In(1)
60	877.02	95.85	End Shut-In(1)
61	46.55	95.63	Open To Flow (2)
121	71.67	96.97	Shut-In(2)
242	811.00	99.42	End Shut-In(2)
243	1681.94	99.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
1.00	free oil	0.00
123.00	HG&OCM 35%gas 18%oil 47%mud	0.60

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758

ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19987

DST#: 5

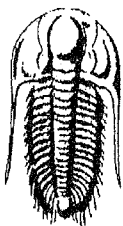
Test Start: 2005.03.29 @ 11:05:32

Tool Information

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 46.67 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3485.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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	0.00			3457.00	
Shut In Tool	5.00			3462.00	
Hydraulic tool	5.00			3467.00	
Jars	5.00			3472.00	
Safety Joint	3.00			3475.00	
Packer	5.00			3480.00	28.00 Bottom Of Top Packer
Packer	5.00			3485.00	
Stubb	2.00			3487.00	
Anchor	6.00			3493.00	
Recorder	0.00	8017	Inside	3493.00	
Perforations	24.00			3517.00	
Blank Spacing	31.00			3548.00	
Recorder	0.00	10332	Outside	3548.00	
Bullnose	3.00			3551.00	66.00 Bottom Packers & Anchor

Total Tool Length: 94.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

67201-2758

Job Ticket: 19987

DST #: 5

ATTN: Roger Martin

Test Start: 2005.03.29 @ 11:05:32

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: 11.17 in³

Gas Cushion Type:

Resistivity: 0.70 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
1.00	free oil	0.005
123.00	HG&OCM 35% gas 18% oil 47% mud	0.605

Total Length: 124.00 ft

Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

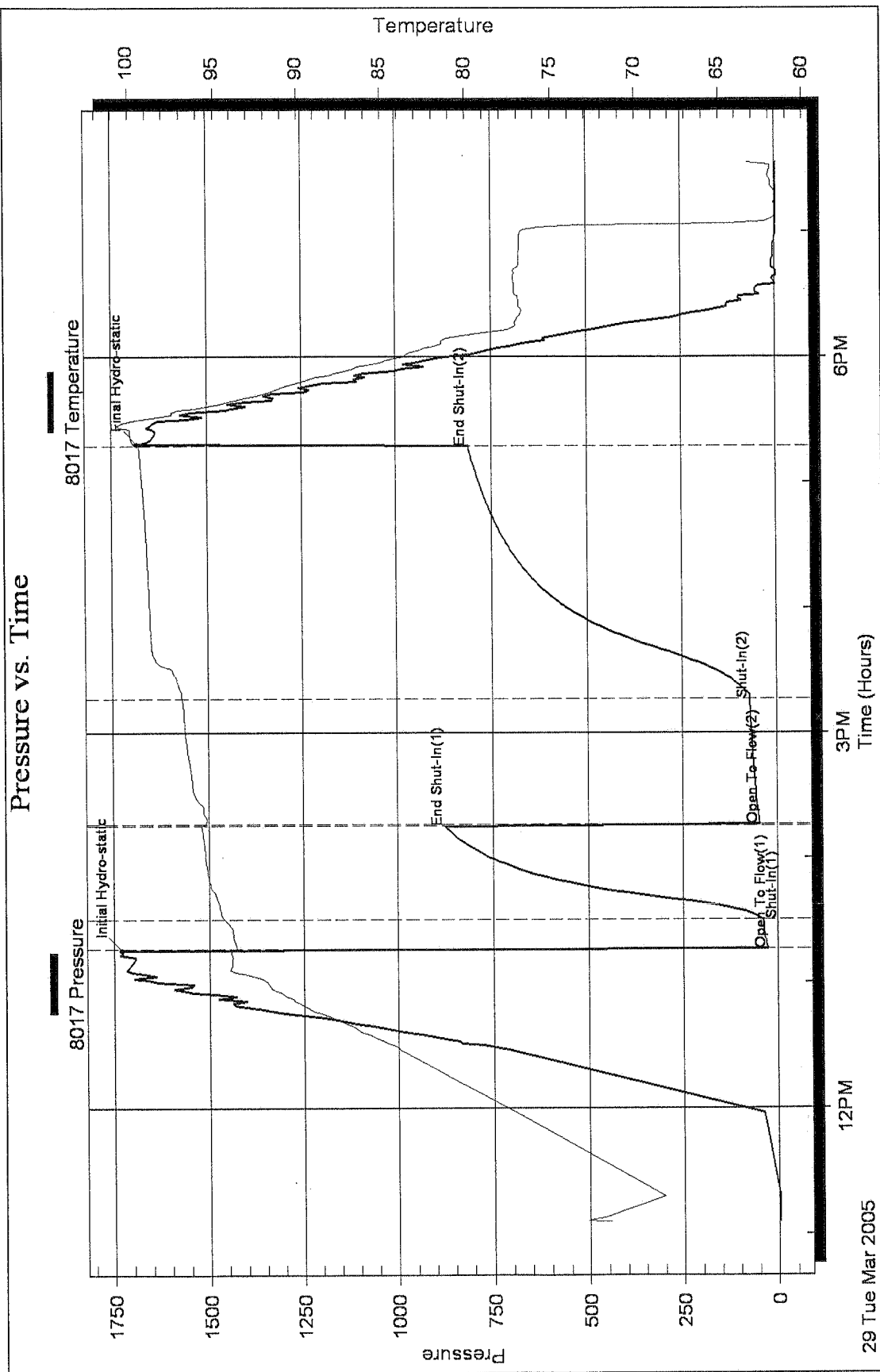
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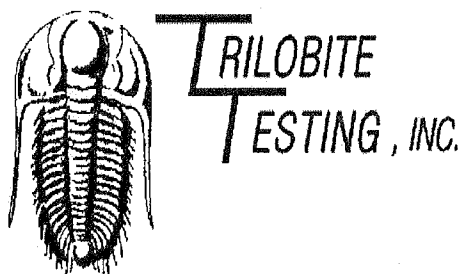
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita,Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

Hall "G"#1-11

Start Date: 2005.03.30 @ 01:42:25

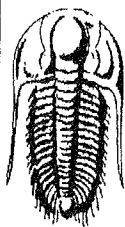
End Date: 2005.03.30 @ 12:11:10

Job Ticket #: 19988 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758

ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19988

DST#: 6

Test Start: 2005.03.30 @ 01:42:25

GENERAL INFORMATION:

Formation: **Arbuckel**

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

Time Tool Opened: 05:59:40

Time Test Ended: 12:11:10

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **3551.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Total Depth: **3565.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1872.00 ft (KB)**

1863.00 ft (CF)

KB to GRVCF: **9.00 ft**

Serial #: 8017

Inside

Press@RunDepth: **75.64 psig @ 3557.00 ft (KB)**

Start Date: **2005.03.30**

End Date: **2005.03.30**

Start Time: **01:42:26**

End Time: **12:11:10**

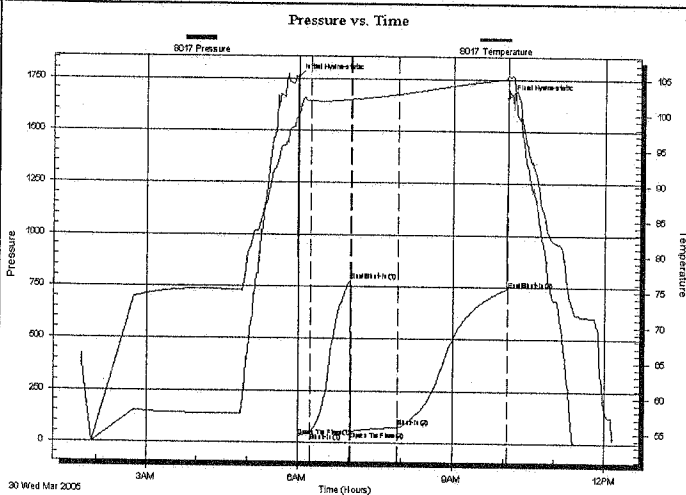
Capacity: **7000.00 psig**

Last Calib.: **2005.03.30**

Time On Btm: **2005.03.30 @ 05:58:55**

Time Off Btm: **2005.03.30 @ 10:05:40**

TEST COMMENT: IF: Weak blow built to 1-1/2" in H₂O.
IS: Bled down for 2 mins. no blow back.
FF: Weak surface blow built to 1/2" in H₂O.
FS: Bled down for 2 mins. no blow back.



PRESSURE SUMMARY

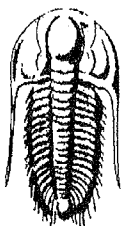
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.78	99.48	Initial Hydro-static
1	27.29	100.09	Open To Flow (1)
16	46.06	101.87	Shut-In(1)
62	776.45	102.05	End Shut-In(1)
63	53.86	101.99	Open To Flow (2)
118	75.64	102.80	Shut-In(2)
246	742.62	105.08	End Shut-In(2)
247	1658.84	105.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
61.00	HG&OCSLVM 35% gas 12% oil 3% water 0.30 mud	
62.00	HG&OCM 22% gas 28% oil 50% mud	0.30
20.00	Free oil	0.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758

11-21S-13W

Job Ticket: 19988

DST#: 6

ATTN: Roger Martin

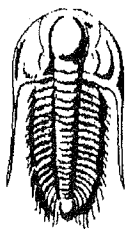
Test Start: 2005.03.30 @ 01:42:25

Tool Information

Drill Pipe:	Length: 3302.00 ft	Diameter: 3.80 inches	Volume: 46.32 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 47.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3551.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 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
Change Over Sub	1.00			3523.00	
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Jars	5.00			3538.00	
Safety Joint	3.00			3541.00	
Packer	5.00			3546.00	29.00 Bottom Of Top Packer
Packer	5.00			3551.00	
Stubb	2.00			3553.00	
Perforations	4.00			3557.00	
Recorder	0.00	8017	Inside	3557.00	
Perforations	4.00			3561.00	
Recorder	0.00	10332	Outside	3561.00	
Bullnose	4.00			3565.00	14.00 Bottom Packers & Anchor
Total Tool Length:		43.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758

11-21S-13W

Job Ticket: 19988

DST#: 6

ATTN: Roger Martin

Test Start: 2005.03.30 @ 01:42:25

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: 44.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: 0.70 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	trace of gip	0.000
61.00	HG&OCSLWM 35%gas 12%oil 3%water 50%	0.300
62.00	HG&OCM 22%gas 28%oil 50%mud	0.305
20.00	Free oil	0.098

Total Length: 143.00 ft

Total Volume: 0.703 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

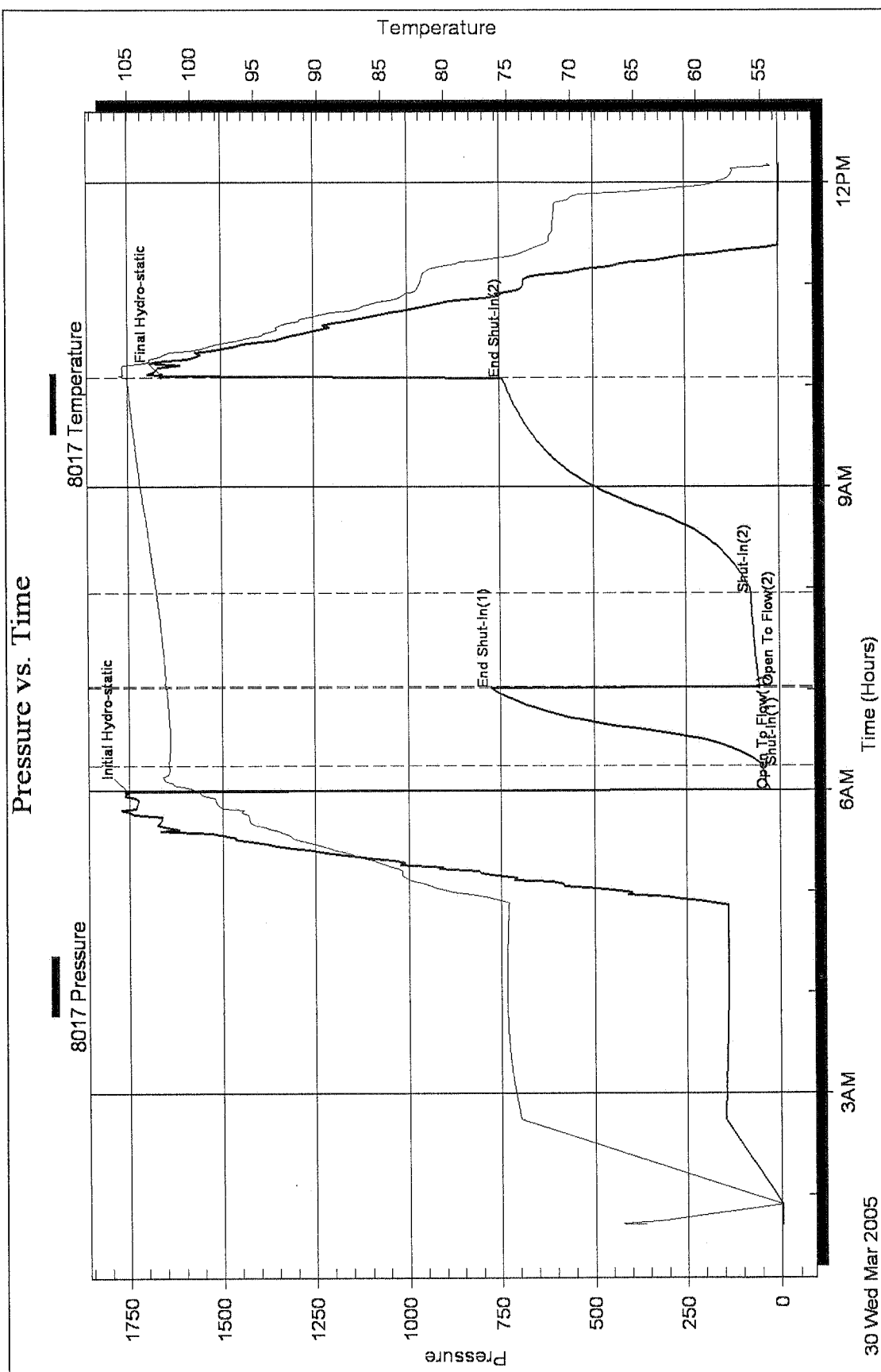
Serial #:

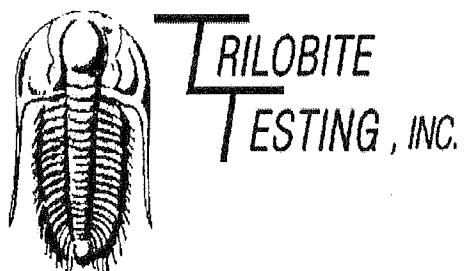
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita, Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

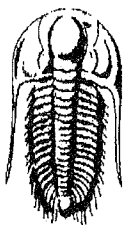
Hall "G" #1-11

Start Date: 2005.03.30 @ 22:18:13

End Date: 2005.03.31 @ 07:04:43

Job Ticket #: 19989 DST #: 7

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758
Wichita, Kansas.
67201-2758
ATTN: Roger Martin

11-21S-13W

Job Ticket: 19989

DST #: 7

Test Start: 2005.03.30 @ 22:18:13

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:27:28
Time Test Ended: 07:04:43

Test Type: Conventional Bottom Hole
Tester: Darren L. Amerine
Unit No: 30

Interval: **3565.00 ft (KB) To 3580.00 ft (KB) (TVD)**
Total Depth: 3580.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1872.00 ft (KB)
1863.00 ft (CF)
KB to GR/CF: 9.00 ft

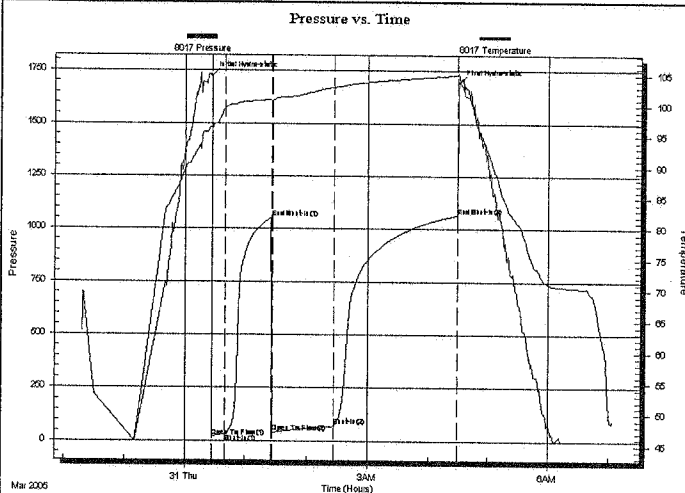
Serial #: 8017

Inside

Press@RunDepth: 69.97 psig @ 3567.00 ft (KB)
Start Date: 2005.03.30 End Date: 2005.03.31
Start Time: 22:18:14 End Time: 07:04:43

Capacity: 7000.00 psig
Last Calib.: 2005.03.31
Time On Btm: 2005.03.31 @ 00:26:58
Time Off Btm: 2005.03.31 @ 04:30:43

TEST COMMENT: IF: Weak blow built to 2" in H₂O.
IS: Bled down n for 2 mins. no blow back.
FF: Fair blow built to 4" in H₂O.
FS: Bled down n for 5 mins. no blow back.



PRESSURE SUMMARY

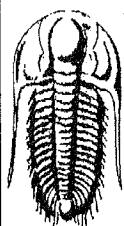
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.22	96.53	Initial Hydro-static
1	17.46	96.06	Open To Flow (1)
14	32.75	99.62	Shut-In(1)
59	1052.57	100.96	End Shut-In(1)
60	38.54	100.66	Open To Flow (2)
120	69.97	102.98	Shut-In(2)
242	1066.11	105.03	End Shut-In(2)
244	1694.35	104.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
61.00	G&OCWM 25% gas 12% oil 21% water 42% 30d	
64.00	Free oil	0.31

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19989

DST #: 7

67201-2758

Test Start: 2005.03.30 @ 22:18:13

ATTN: Roger Martin

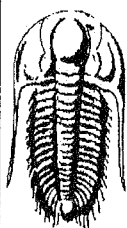
Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 47.73 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3565.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 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
Change Over Sub	1.00			3537.00	
Shut In Tool	5.00			3542.00	
Hydraulic tool	5.00			3547.00	
Jars	5.00			3552.00	
Safety Joint	3.00			3555.00	
Packer	5.00			3560.00	29.00 Bottom Of Top Packer
Packer	5.00			3565.00	
Stubb	2.00			3567.00	
Recorder	0.00	8017	Inside	3567.00	
Anchor	10.00			3577.00	
Recorder	0.00		Outside	3577.00	
Bullnose	3.00			3580.00	15.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

Wichita, Kansas.

67201-2758

ATTN: Roger Martin

11-21S-13W

Job Ticket: 19989

DST#: 7

Test Start: 2005.03.30 @ 22:18:13

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 9.98 in³

Resistivity: 0.70 ohm.m

Salinity: 12500.00 ppm

Filter Cake: 0.32 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
0.00	trace of gip	0.000
61.00	G&OC/M 25%gas 12%oil 21%water 42%mu	0.300
64.00	Free oil	0.315

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

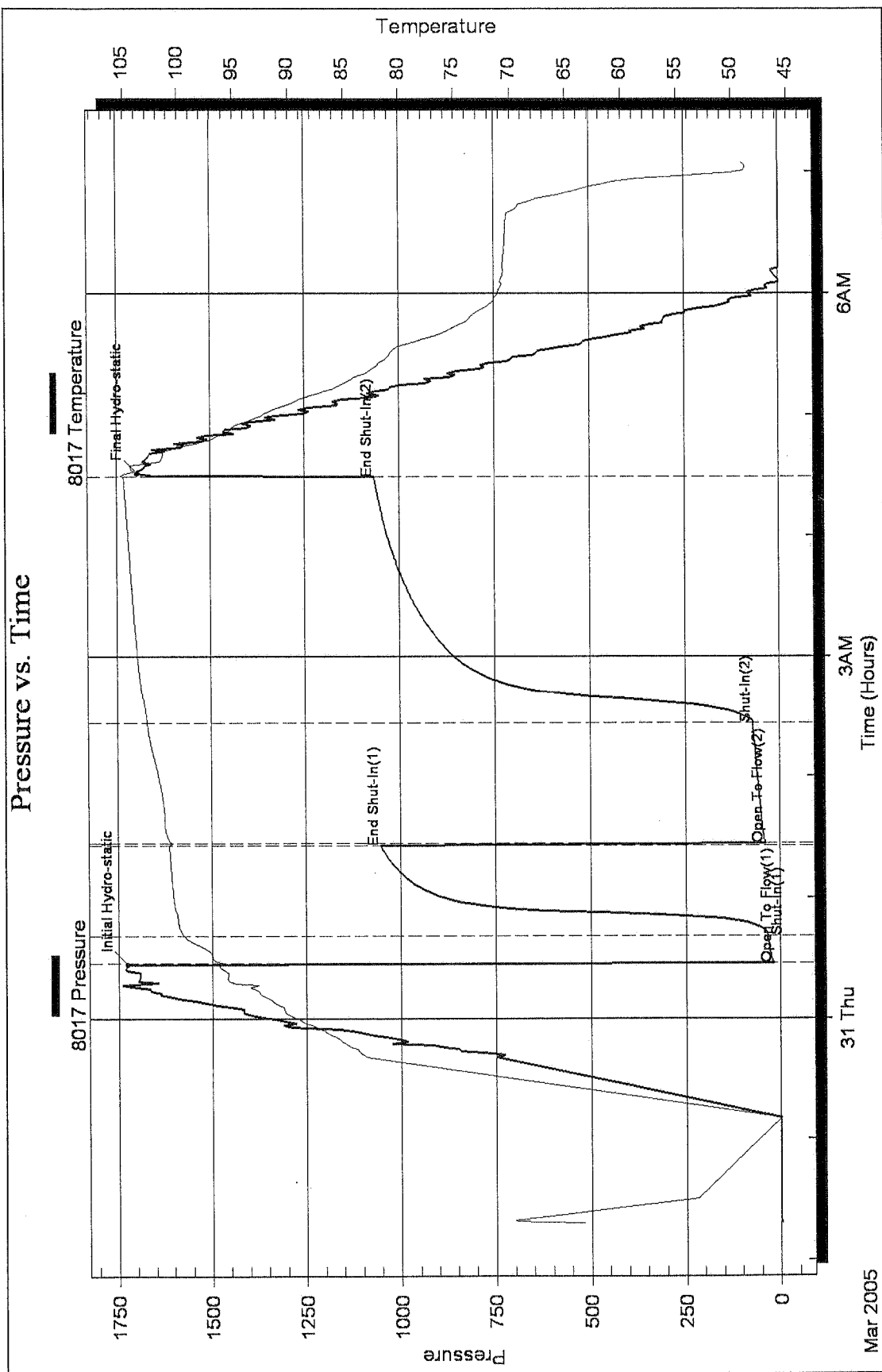
Serial #:

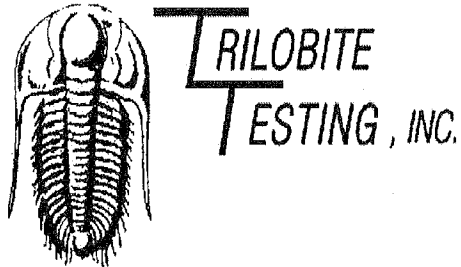
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling,company,Inc**

P.O.Box 2758
Wichita,Kansas.
67201-2758

ATTN: Roger Martin

11-21S-13W

Hall "G"#1-11

Start Date: 2005.03.31 @ 13:50:13

End Date: 2005.03.31 @ 21:51:28

Job Ticket #: 19990 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling, company, Inc

P.O.Box 2758
Wichita, Kansas.
67201-2758

ATTN: Roger Martin

Hall "G" #1-11

11-21S-13W

Job Ticket: 19990

DST#: 8

Test Start: 2005.03.31 @ 13:50:13

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:30:13

Time Test Ended: 21:51:28

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 30

Interval: **3580.00 ft (KB) To 3595.00 ft (KB) (TVD)**

Total Depth: 3595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1872.00 ft (KB)

1863.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8017

Inside

Press@RunDepth: 161.73 psig @ 3586.00 ft (KB)

Start Date: 2005.03.31

End Date:

2005.03.31

Capacity: 7000.00 psig

Last Calib.: 2005.03.31

Start Time: 13:50:14

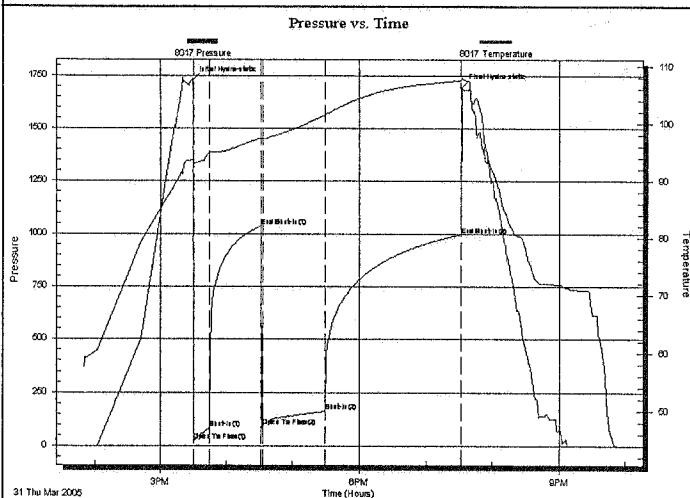
End Time:

21:51:28

Time On Btm: 2005.03.31 @ 15:29:43

Time Off Btm: 2005.03.31 @ 19:32:28

TEST COMMENT: IF: Fair blow built to 4" in H₂O bucket.
IS: Bled down for 5 mins. no blow back.
FF: Weak blow built to 10-3/4" in H₂O bucket.
FS: Bled down for 5 mins. no blow back.



PRESSURE SUMMARY

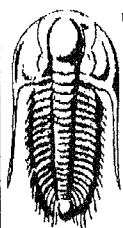
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.97	93.51	Initial Hydro-static
1	21.18	92.98	Open To Flow (1)
15	82.46	94.78	Shut-In(1)
62	1036.36	97.51	End Shut-In(1)
64	90.93	97.48	Open To Flow (2)
120	161.73	101.49	Shut-In(2)
243	992.27	107.52	End Shut-In(2)
243	1693.53	108.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Salt water	1.22
93.00	MCW 75% Water 25% mud	1.30
0.00	trace of oil	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19990

DST#: 8

67201-2758

Test Start: 2005.03.31 @ 13:50:13

ATTN: Roger Martin

Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	47.96 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3580.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 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
Change Over Sub	1.00			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Jars	5.00			3567.00	
Safety Joint	3.00			3570.00	
Packer	5.00			3575.00	29.00 Bottom Of Top Packer
Packer	5.00			3580.00	
Stubb	2.00			3582.00	
Perforations	4.00			3586.00	
Recorder	0.00	8017	Inside	3586.00	
Perforations	6.00			3592.00	
Recorder	0.00	13266	Outside	3592.00	
Bullnose	3.00			3595.00	15.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling, company, Inc

Hall "G" #1-11

P.O.Box 2758

11-21S-13W

Wichita, Kansas.

Job Ticket: 19990

DST#: 8

67201-2758

Test Start: 2005.03.31 @ 13:50:13

ATTN: Roger Martin

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.57 in³

Gas Cushion Type:

Resistivity: 0.60 ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Salt water	1.220
93.00	MCW 75% Water 25% mud	1.305
0.00	trace of oil	0.000

Total Length: 341.00 ft

Total Volume: 2.525 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .07@68°degrees=125000

Pressure vs. Time

