

15-063-21658

32-15s-26w

ks

MD



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

32 15 26 Gove KS

Cheney #1-32

Start Date: 2007.05.06 @ 05:20:03

End Date: 2007.05.06 @ 12:11:12

Job Ticket #: 27671 DST #: 1

KCC
AUG 27 2007
CONFIDENTIAL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company Inc

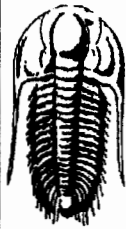
Cheney #1-32

32 15 26 Gove KS

USI # 1

Lansing

4001.0000



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company Inc

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Cheney #1-32

32 15 26 Gove KS

Job Ticket: 27671

DST#: 1

Test Start: 2007.05.06 @ 05:20:03

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:59:28

Time Test Ended: 12:11:12

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **4080.00 ft (KB) To 4105.00 ft (KB) (TVD)**

Total Depth: 4105.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2617.00 ft (KB)

2612.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 15.01 psig @ 4081.00 ft (KB)

Start Date: 2007.05.06

End Date:

2007.05.06

Start Time: 05:20:03

End Time:

12:11:12

Capacity: 7000.00 psig

Last Calib.: 2007.05.06

Time On Btm: 2007.05.06 @ 07:54:13

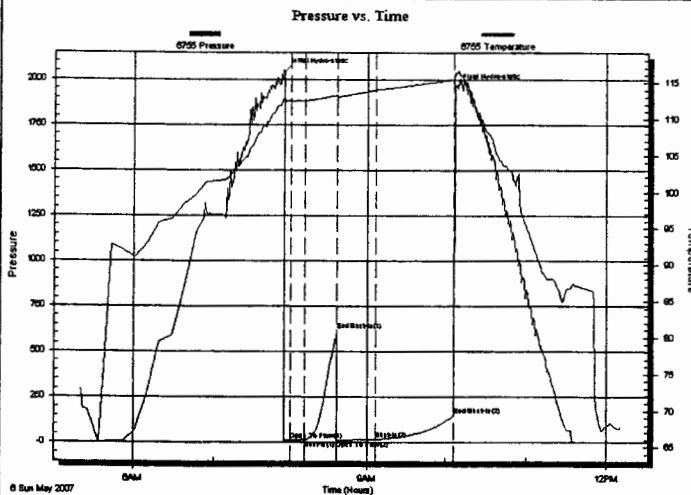
Time Off Btm: 2007.05.06 @ 10:06:27

TEST COMMENT: IF Built to 1/2 inch died in 8 mins.

IS No return

FF No blow

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.25	112.92	Initial Hydro-static
6	12.07	112.51	Open To Flow (1)
17	12.77	112.50	Shut-In(1)
42	617.77	113.27	End Shut-In(1)
42	13.05	112.87	Open To Flow (2)
73	15.01	113.99	Shut-In(2)
132	152.14	115.40	End Shut-In(2)
133	1955.06	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	O spotted M 100%M	0.02

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

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27671

DST#: 1

ATTN: Phil Askey

Test Start: 2007.05.06 @ 05:20:03

Tool Information

Drill Pipe:	Length: 3941.00 ft	Diameter: 3.80 inches	Volume: 55.28 bbl	Tool Weight:	1500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	55.89 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4080.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4061.00	
Shut In Tool	5.00			4066.00	
Hydraulic tool	5.00			4071.00	
Packer	5.00			4076.00	20.00 Bottom Of Top Packer
Packer	4.00			4080.00	
Stubb	1.00			4081.00	
Recorder	0.00	6755	Inside	4081.00	
Perforations	19.00			4100.00	
Recorder	0.00	2607	Inside	4100.00	
Bullnose	5.00			4105.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27671

DST#: 1

ATTN: Phil Askey

Test Start: 2007.05.06 @ 05:20:03

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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.71 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	O spotted M 100%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

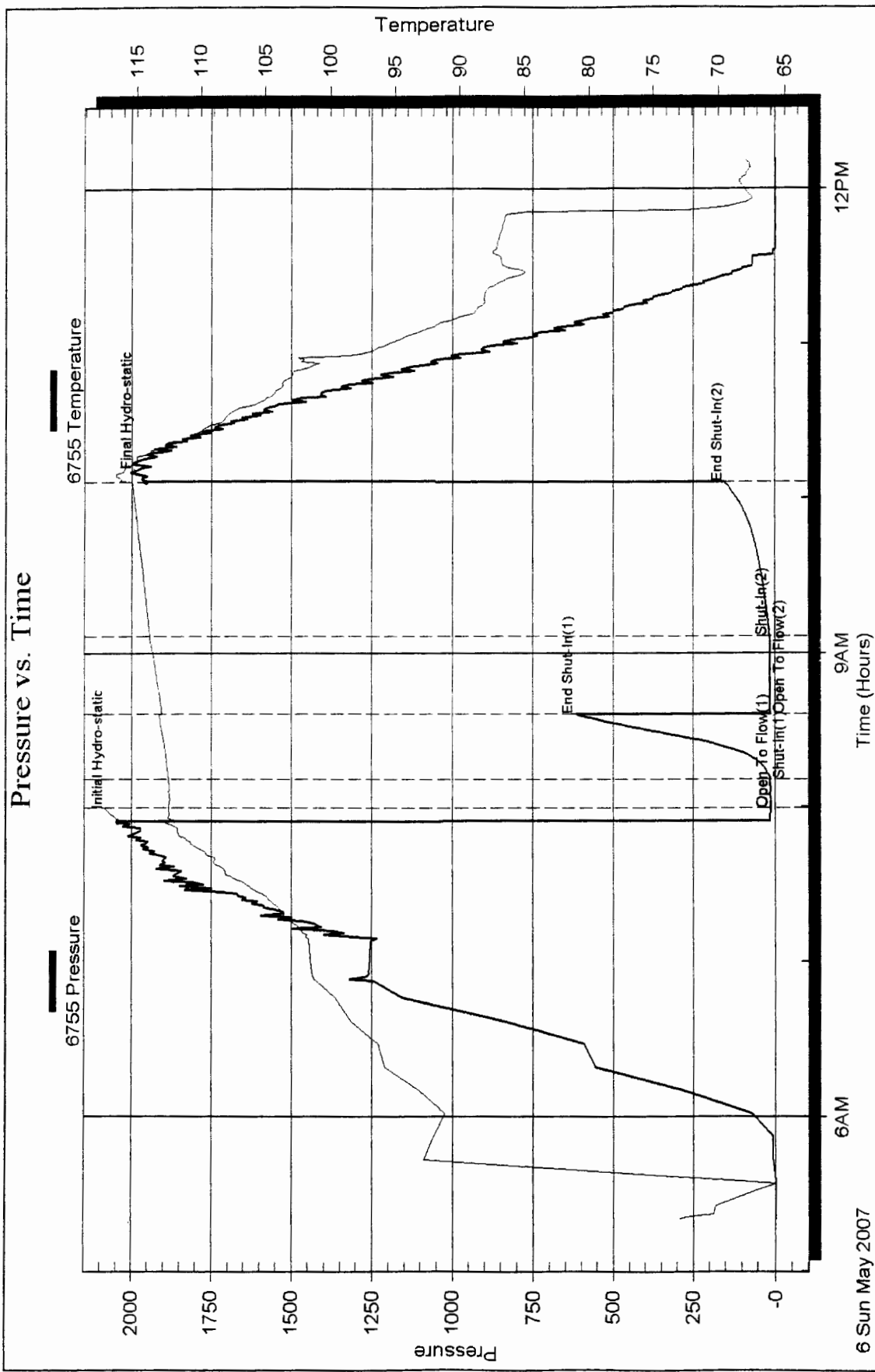
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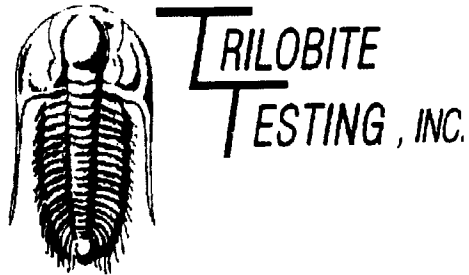
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

32 15 26 Gove KS

Cheney #1-32

Start Date: 2007.05.06 @ 20:19:52

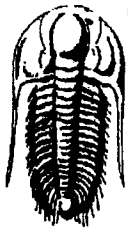
End Date: 2007.05.07 @ 02:43:16

Job Ticket #: 27672 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

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Cheney #1-32

32 15 26 Gove KS

Job Ticket: 27672

DST#: 2

Test Start: 2007.05.06 @ 20:19:52

GENERAL INFORMATION:

Formation: **Lansing**

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

Time Tool Opened: 22:24:02

Time Test Ended: 02:43:16

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **4121.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Total Depth: **4140.00 ft (KB) (TVD)**

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

Reference Elevations: **2617.00 ft (KB)**

2612.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: **31.49 psig @ 4122.00 ft (KB)**

Start Date: **2007.05.06**

End Date:

2007.05.07

Capacity: **7000.00 psig**

Last Calib.: **2007.05.07**

Start Time: **20:19:52**

End Time:

02:43:16

Time On Btm: **2007.05.06 @ 22:23:47**

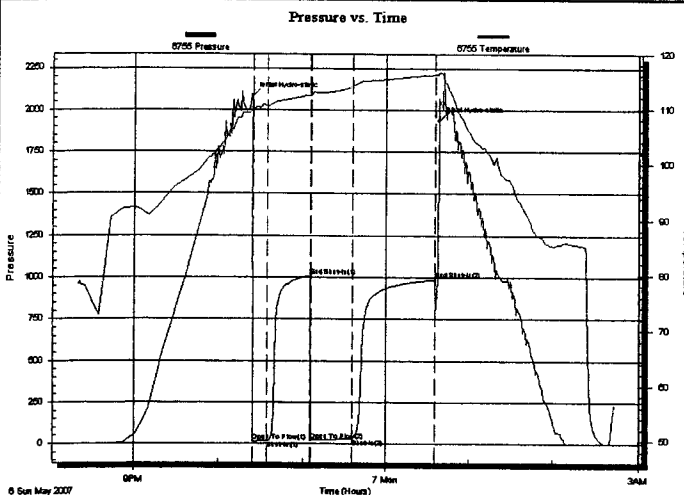
Time Off Btm: **2007.05.07 @ 00:38:01**

TEST COMMENT: IF 1/2 inch died in 7 mins.

IS No return

FF Built to 1/2 inch.

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.90	109.59	Initial Hydro-static
1	11.79	108.92	Open To Flow (1)
11	19.49	110.51	Shut-In(1)
41	1008.29	112.43	End Shut-In(1)
42	21.38	112.34	Open To Flow(2)
72	31.49	114.18	Shut-In(2)
132	986.22	116.22	End Shut-In(2)
135	1935.46	116.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	O spotted WCM 10%W 90%M	0.05
10.00	WCM 60%W 40%M	0.05

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

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27672

DST#: 2

ATTN: Phil Askey

Test Start: 2007.05.06 @ 20:19:52

Tool Information

Drill Pipe:	Length: 4004.00 ft	Diameter: 3.80 inches	Volume: 56.17 bbl	Tool Weight:	1500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	56.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4121.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	39.00 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			4102.00	
Shut In Tool	5.00			4107.00	
Hydraulic tool	5.00			4112.00	
Packer	5.00			4117.00	20.00 Bottom Of Top Packer
Packer	4.00			4121.00	
Stubb	1.00			4122.00	
Recorder	0.00	6755	Inside	4122.00	
Perforations	13.00			4135.00	
Recorder	0.00	2607	Inside	4135.00	
Bullnose	5.00			4140.00	19.00 Bottom Packers & Anchor
Total Tool Length:		39.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27672

DST#: 2

ATTN: Phil Askey

Test Start: 2007.05.06 @ 20:19:52

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:

23000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	O spotted WCM 10%W 90%M	0.049
10.00	WCM 60%W 40%M	0.049

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

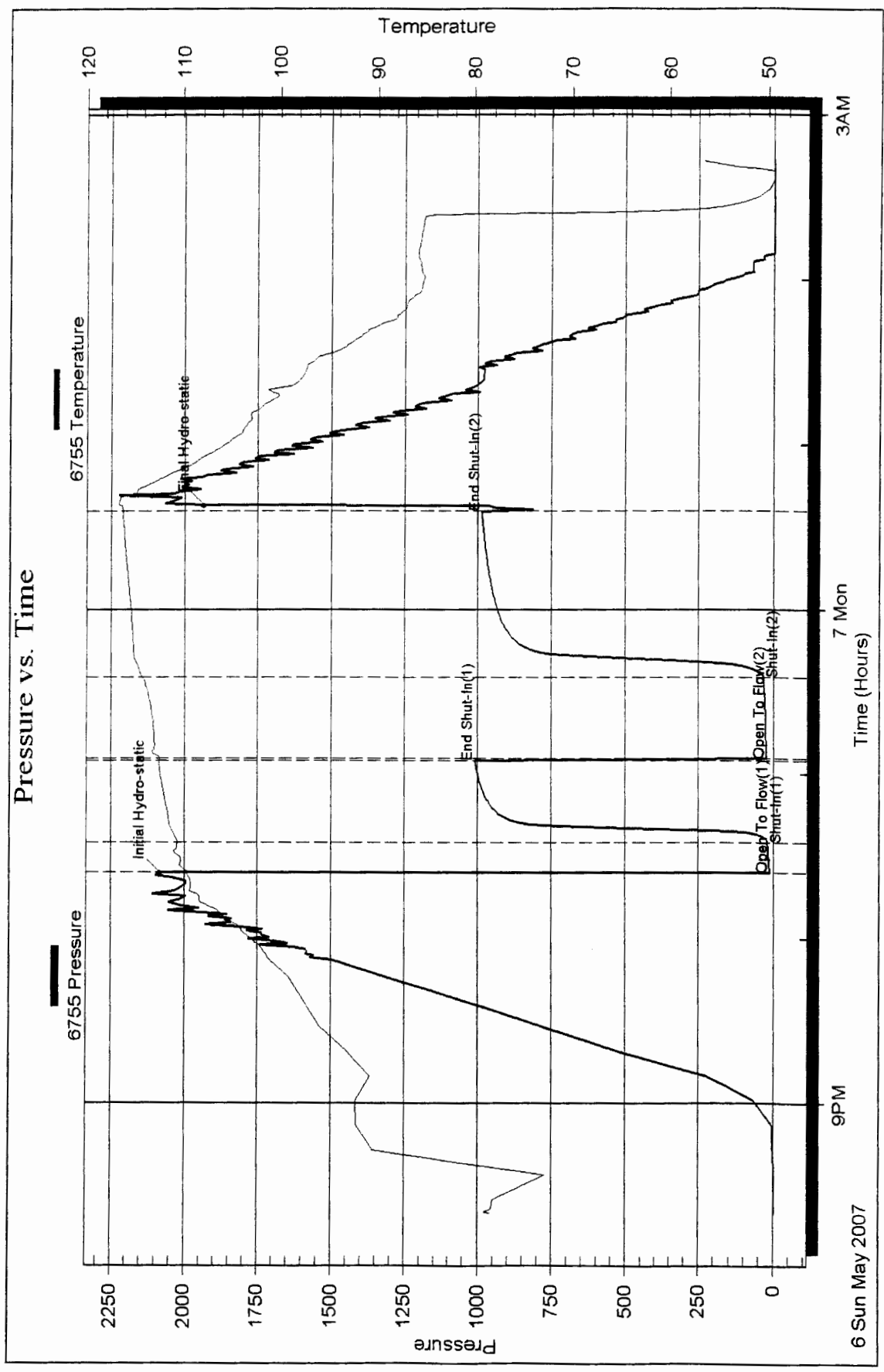
Serial #: 6755

Inside

Mull Drilling Company Inc

32 15 26 Gove KS

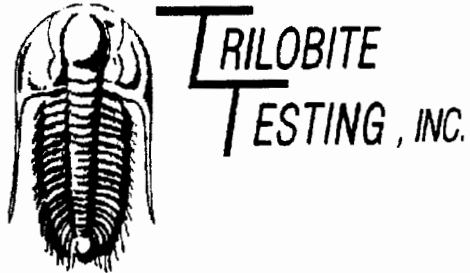
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 27672

Printed: 2007.05.14 @ 13:04:03 Page 5



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

32 15 26 Gove KS

Cheney #1-32

Start Date: 2007.05.07 @ 14:06:14

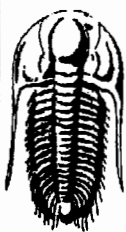
End Date: 2007.05.07 @ 21:12:53

Job Ticket #: 27673 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

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Cheney #1-32

32 15 26 Gove KS

Job Ticket: 27673

DST#: 3

Test Start: 2007.05.07 @ 14:06:14

GENERAL INFORMATION:

Formation: **Lansing**

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

Time Tool Opened: 16:47:24

Time Test Ended: 21:12:53

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **4140.00 ft (KB) To 4195.00 ft (KB) (TVD)**

Total Depth: **4195.00 ft (KB) (TVD)**

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

Reference Elevations: **2617.00 ft (KB)**

2612.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: **29.63 psig @ 4141.00 ft (KB)**

Start Date: **2007.05.07**

End Date:

2007.05.07

Capacity: **7000.00 psig**

Last Calib.: **2007.05.07**

Start Time: **14:06:14**

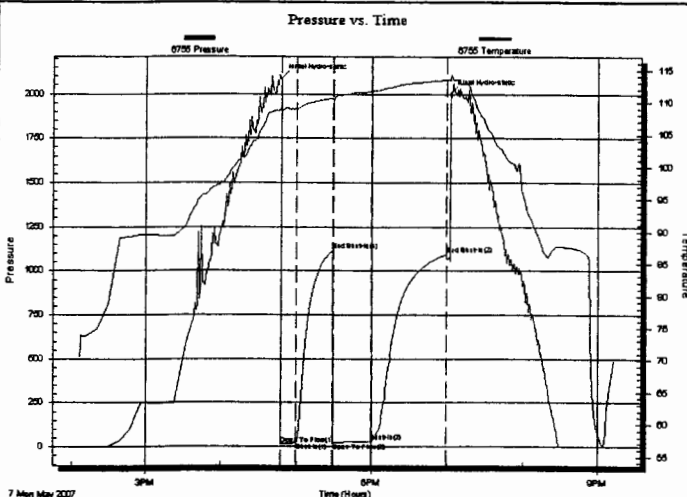
End Time:

21:12:53

Time On Btm: **2007.05.07 @ 16:47:09**

Time Off Btm: **2007.05.07 @ 19:02:38**

TEST COMMENT: IF Built to 3/4 inch died back to 1/2 inch.
IS No return
FF Built to 1/4 inch died back to surface blow.
FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.04	109.23	Initial Hydro-static
1	14.55	108.33	Open To Flow (1)
12	20.67	108.97	Shut-In (1)
42	1117.29	110.67	End Shut-In (1)
42	22.98	110.14	Open To Flow (2)
72	29.63	111.68	Shut-In (2)
132	1094.50	113.43	End Shut-In (2)
136	2002.74	113.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	O spotted M 100%M	0.05

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

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27673

DST#: 3

ATTN: Phil Askey

Test Start: 2007.05.07 @ 14:06:14

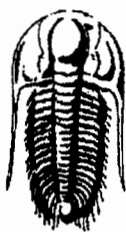
Tool Information

Drill Pipe:	Length: 4004.00 ft	Diameter: 3.80 inches	Volume: 56.17 bbl	Tool Weight:	1500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	72000.00 lb
		Total Volume:	56.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	4140.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	75.00 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			4121.00	
Shut In Tool	5.00			4126.00	
Hydraulic tool	5.00			4131.00	
Packer	5.00			4136.00	20.00 Bottom Of Top Packer
Packer	4.00			4140.00	
Stubb	1.00			4141.00	
Recorder	0.00	6755	Inside	4141.00	
Perforations	16.00			4157.00	
Change Over Sub	1.00			4158.00	
Drill Pipe	31.00			4189.00	
Change Over Sub	1.00			4190.00	
Recorder	0.00	2607	Inside	4190.00	
Bullnose	5.00			4195.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27673

DST#: 3

ATTN: Phil Askey

Test Start: 2007.05.07 @ 14:06:14

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.32 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	O spotted M 100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

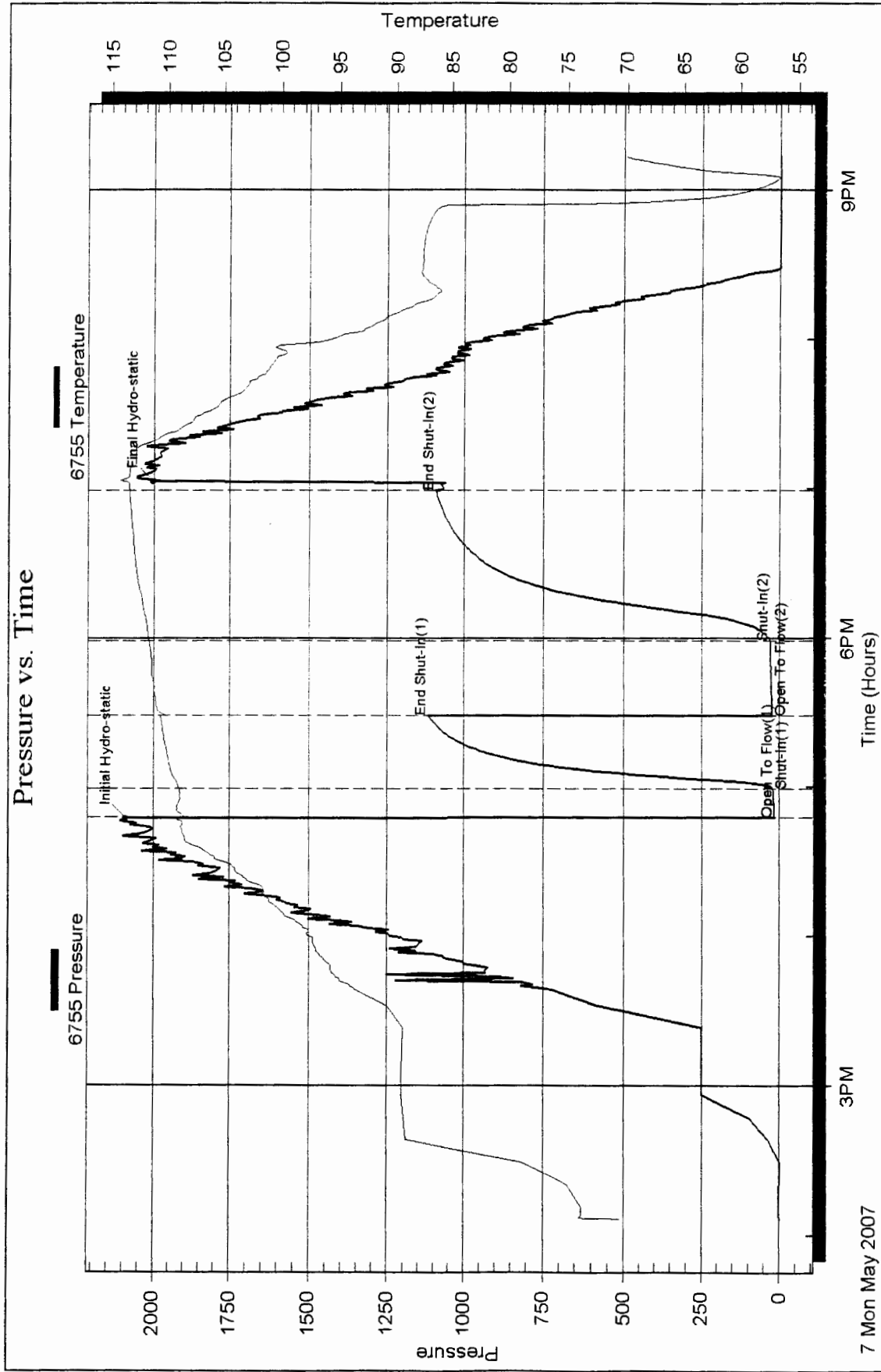
Serial #:

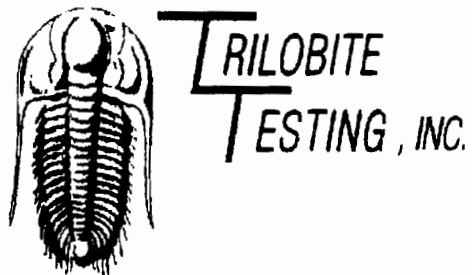
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

32 15 26 Gove KS

Cheney #1-32

Start Date: 2007.05.08 @ 18:18:21

End Date: 2007.05.09 @ 01:11:00

Job Ticket #: 27674 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Mull Drilling Company Inc

ATTN: Phil Askey

32 15 26 Gove KS

DST#:4

Test Start: 2007.05.08 @ 18:18:21

KB to GR/CF: 5.00 ft

TEST COMMENT: IF Built to 1/4 inch.
IS No return
FF Surface blow for 3 mins.
FS No return

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27674

DST#: 4

ATTN: Phil Askey

Test Start: 2007.05.08 @ 18:18:21

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight:	1500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	60.28 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4388.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	57.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4369.00	
Shut In Tool	5.00			4374.00	
Hydraulic tool	5.00			4379.00	
Packer	5.00			4384.00	20.00 Bottom Of Top Packer
Packer	4.00			4388.00	
Stubb	1.00			4389.00	
Recorder	0.00	6755	Inside	4389.00	
Perforations	31.00			4420.00	
Recorder	0.00	2607	Inside	4420.00	
Bullnose	5.00			4425.00	37.00 Bottom Packers & Anchor
Total Tool Length:		57.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27674

DST#: 4

ATTN: Phil Askey

Test Start: 2007.05.08 @ 18:18:21

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	O spotted M 100%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

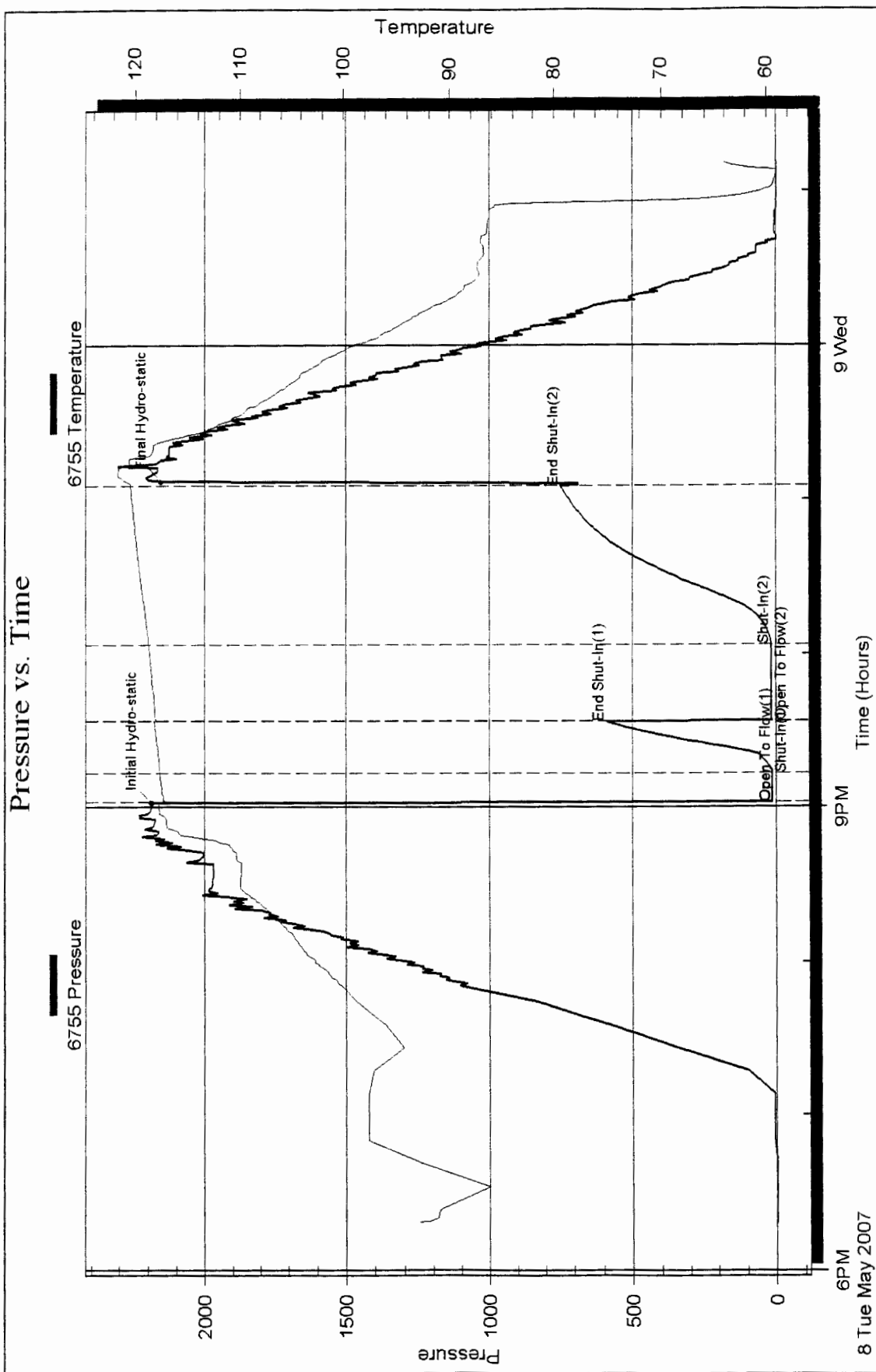
Serial #:

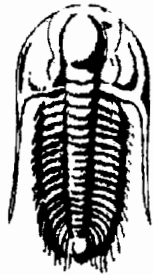
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

32 15 26 Gove KS

Cheney #1-32

Start Date: 2007.05.09 @ 13:27:31

End Date: 2007.05.09 @ 22:57:41

Job Ticket #: 27675 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

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Cheney #1-32

32 15 26 Gove KS

Job Ticket: 27675

DST#: 5

Test Start: 2007.05.09 @ 13:27:31

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 15:46:56

Time Test Ended: 22:57:41

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **4468.00 ft (KB) To 4506.00 ft (KB) (TVD)**

Total Depth: **4105.00 ft (KB) (TVD)**

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

Reference Elevations: **2617.00 ft (KB)**

2612.00 ft (CF)

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

Serial #: 6755

Inside

Press@RunDepth: **107.95 psig @ 4469.00 ft (KB)**

Start Date: **2007.05.09**

End Date:

2007.05.09

Capacity: **7000.00 psig**

Last Calib.: **2007.05.09**

Start Time: **13:27:31**

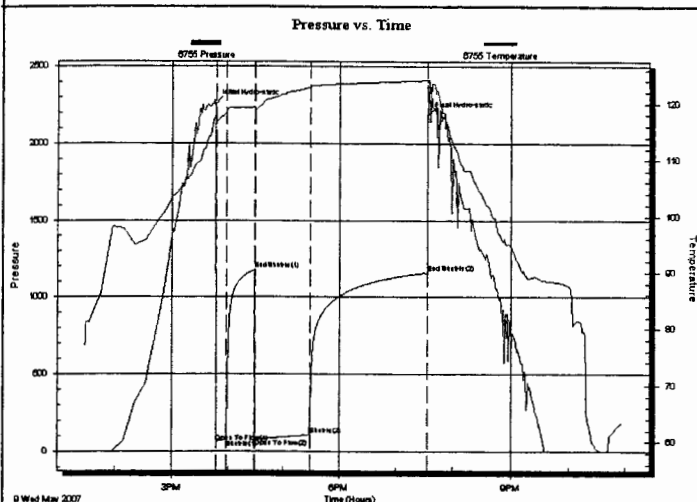
End Time:

22:57:41

Time On Btm: **2007.05.09 @ 15:46:26**

Time Off Btm: **2007.05.09 @ 19:33:40**

TEST COMMENT: IF Built to 3 3/4 inch blow.
IS Built to a weak surface blow.
FF Built to 8 inches.
FS Weak surface blow for 17 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.00	117.71	Initial Hydro-static
1	59.02	117.13	Open To Flow (1)
12	77.29	118.38	Shut-In (1)
42	1176.41	119.38	End Shut-In (1)
43	80.77	118.72	Open To Flow (2)
103	107.95	122.85	Shut-In (2)
227	1158.18	124.21	End Shut-In (2)
228	2179.62	124.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	SOCM 10%O 90%M	0.49
80.00	OCM 20%O 80%M	0.90
30.00	GCO 10%G 90%O	0.42
	GIP 30	

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

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27675

DST#: 5

ATTN: Phil Askey

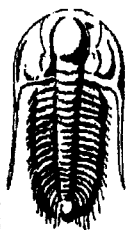
Test Start: 2007.05.09 @ 13:27:31

Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 bbl	Tool Weight:	1500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	61.60 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	4468.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	58.00 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			4449.00	
Shut In Tool	5.00			4454.00	
Hydraulic tool	5.00			4459.00	
Packer	5.00			4464.00	20.00 Bottom Of Top Packer
Packer	4.00			4468.00	
Stubb	1.00			4469.00	
Recorder	0.00	6755	Inside	4469.00	
Perforations	32.00			4501.00	
Recorder	0.00	2607	Inside	4501.00	
Bullnose	5.00			4506.00	38.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27675

DST#: 5

ATTN: Phil Askey

Test Start: 2007.05.09 @ 13:27:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	SOQM 10%O 90%M	0.492
80.00	OCM 20%O 80%M	0.904
30.00	GCO 10%G 90%O	0.421
	GIP 30	

Total Length: -999789.00 ft

Total Volume: 1.817 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

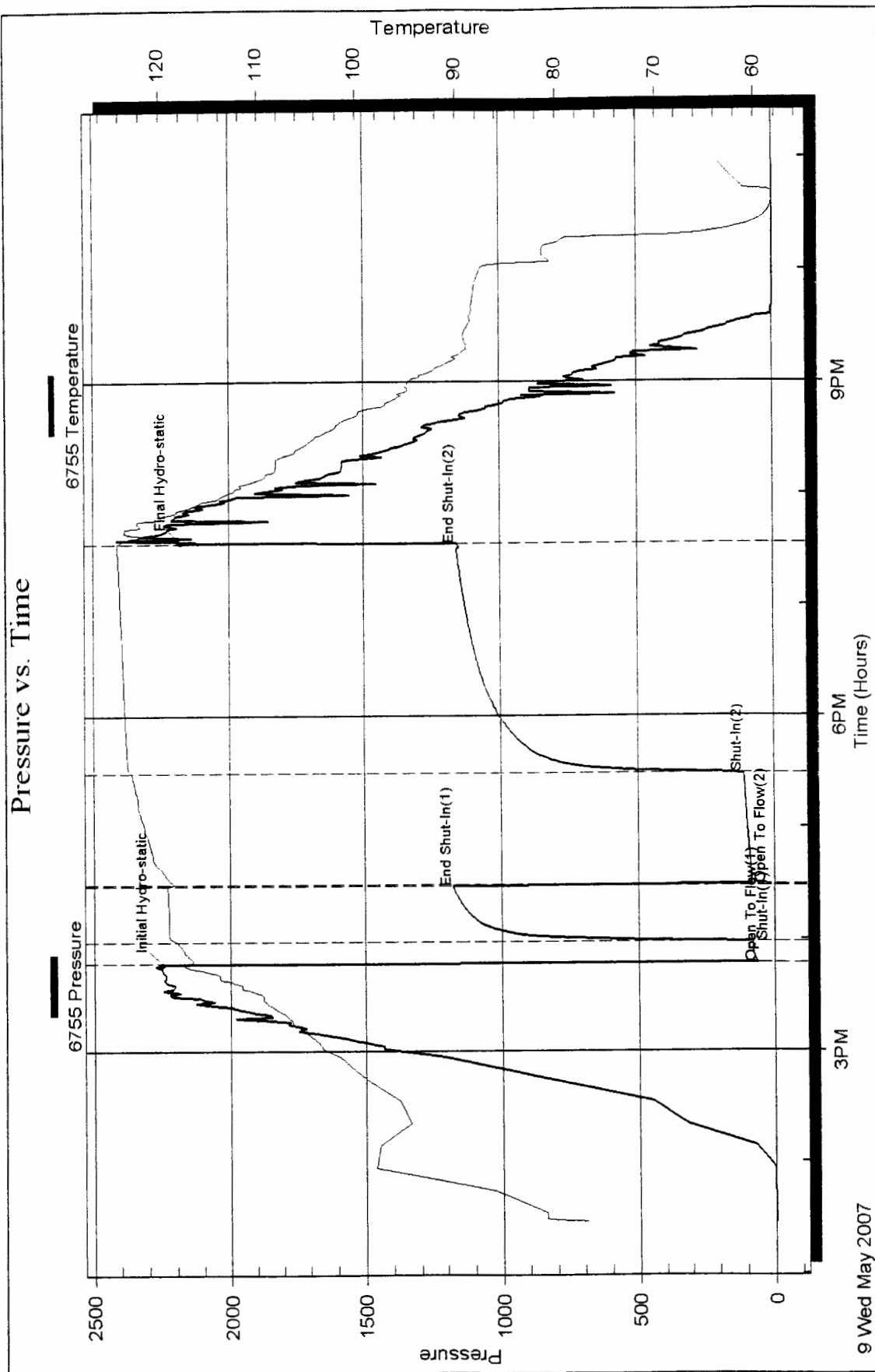
Serial #:

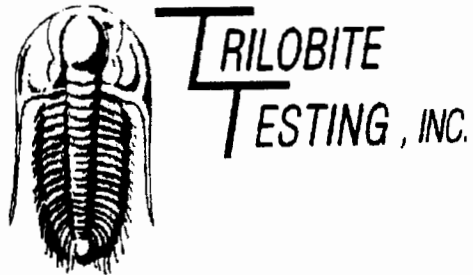
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

32 15 26 Gove KS

Cheney #1-32

Start Date: 2007.05.10 @ 06:18:25

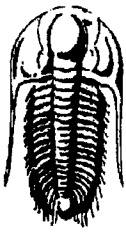
End Date: 2007.05.10 @ 14:56:20

Job Ticket #: 27751 DST #: 6

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Company Inc

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Cheney #1-32

32 15 26 Gove KS

Job Ticket: 27751

DST#: 6

Test Start: 2007.05.10 @ 06:18:25

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:36:05

Time Test Ended: 14:56:20

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **4504.00 ft (KB) To 4514.00 ft (KB) (TVD)**

Total Depth: 4514.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2617.00 ft (KB)

2612.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 264.74 psig @ 4505.00 ft (KB)

Start Date: 2007.05.10

End Date: 2007.05.10

Start Time: 06:18:25

End Time: 14:56:20

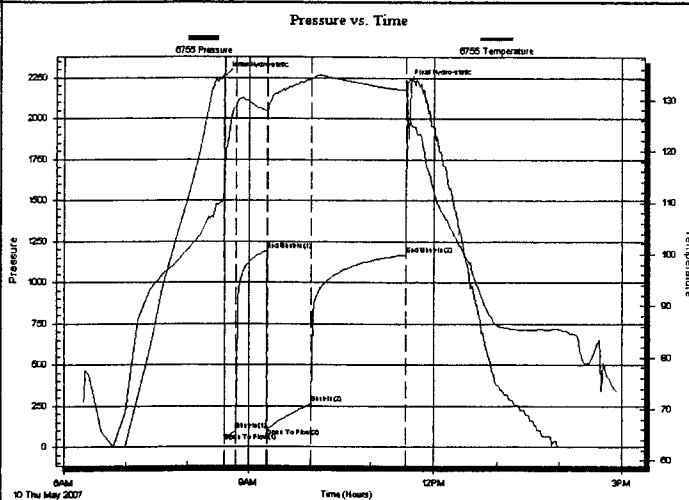
Capacity: 7000.00 psig

Last Calib.: 2007.05.10

Time On Btm: 2007.05.10 @ 08:35:50

Time Off Btm: 2007.05.10 @ 11:34:04

TEST COMMENT: IF BOB in 6 mins.
IS Surface built to 2 inch blow started to die back
FF BOB in 9 mins.
FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.69	112.12	Initial Hydro-static
1	32.17	111.71	Open To Flow (1)
12	99.37	128.85	Shut-In (1)
42	1194.43	127.78	End Shut-In (1)
42	111.04	126.81	Open To Flow (2)
86	264.74	134.05	Shut-In (2)
178	1169.55	131.88	End Shut-In (2)
179	2221.91	131.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 100%M	0.44
100.00	O&GCM 10%G 10%O 80%M	1.09
240.00	HGCO 60%G 40%O	3.37
120.00	GCO 20%G 80%O	1.68
120.00	SGCO 10%G 90%O	1.68
	GIP 170	

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

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Cheney #1-32

32 15 26 Gove KS

Job Ticket: 27751

DST#: 6

Test Start: 2007.05.10 @ 06:18:25

Tool Information

Drill Pipe:	Length: 4379.00 ft	Diameter: 3.80 inches	Volume: 61.43 bbl	Tool Weight: 1500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 62.04 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4504.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	30.00 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			4485.00	
Shut In Tool	5.00			4490.00	
Hydraulic tool	5.00			4495.00	
Packer	5.00			4500.00	20.00 Bottom Of Top Packer
Packer	4.00			4504.00	
Stubb	1.00			4505.00	
Recorder	0.00	6755	Inside	4505.00	
Perforations	4.00			4509.00	
Recorder	0.00	2607	Inside	4509.00	
Bullnose	5.00			4514.00	10.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

Cheney #1-32

PO Box 2758
Wichita KS 67201

32 15 26 Gove KS

Job Ticket: 27751

DST#: 6

ATTN: Phil Askey

Test Start: 2007.05.10 @ 06:18:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 100%M	0.443
100.00	O&GCM 10%G 10%O 80%M	1.093
240.00	HGCC 60%G 40%O	3.367
120.00	GCO 20%G 80%O	1.683
120.00	SGCO 10%G 90%O	1.683
	GIP 170	

Total Length: -999329.00 ft

Total Volume: 8.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

