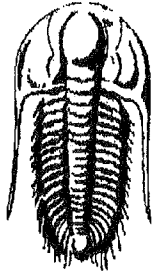


15-101-22063

9-19s-28w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

9 19 28 Lane KS

Hineman Farms #1-9

Start Date: 2007.11.21 @ 17:09:05

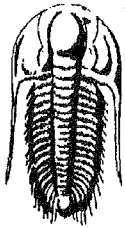
End Date: 2007.11.21 @ 23:01:44

Job Ticket #: 29509 DST #: 1

Mull Drilling Co Inc
Hineman Farms #1-9
9 19 28 Lane KS
DST # 1
2007.11.21

CONFIDENTIAL
FEB 28 2008
KCC

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 Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29509

DST#: 1

ATTN: Phil Askey

Test Start: 2007.11.21 @ 17:09:05

GENERAL INFORMATION:

Formation: I
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:45:00
Time Test Ended: 23:01:44

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: **4204.00 ft (KB) To 4240.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

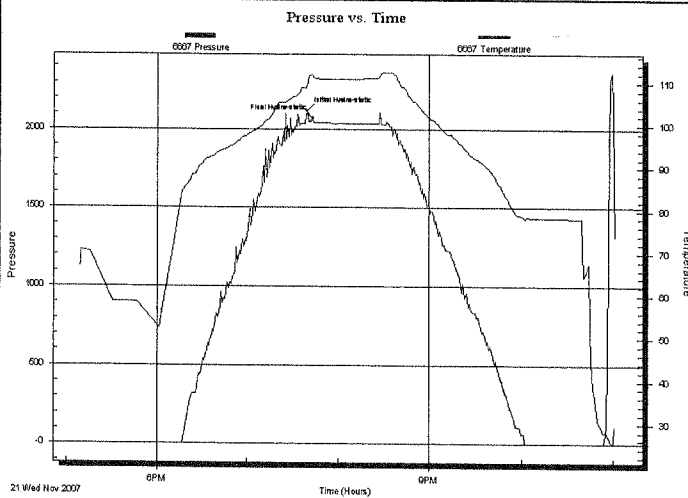
Reference Elevations: 2767.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 Inside

Press@RunDepth: psig @ 4205.00 ft (KB)
Start Date: 2007.11.21 End Date: 2007.11.21
Start Time: 17:09:05 End Time: 23:01:44

Capacity: 7000.00 psig
Last Calib.: 2007.11.21
Time On Btm: 2007.11.21 @ 19:39:30
Time Off Btm: 2007.11.21 @ 19:43:15

TEST COMMENT: Packers failed @ open reset failed again pull tool



PRESSURE SUMMARY

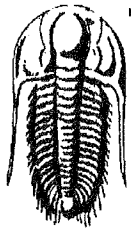
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.48	109.47	Initial Hydro-static
4	2069.08	111.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	100%M	1.82

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc
PO Box 2758
Wichita KS 67201
ATTN: Phil Askey

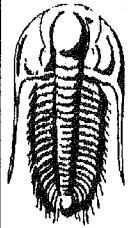
Hineman Farms #1-9
9 19 28 Lane KS
Job Ticket: 29509 **DST#: 1**
Test Start: 2007.11.21 @ 17:09:05

Tool Information

Drill Pipe:	Length: 4067.00 ft	Diameter: 3.80 inches	Volume: 57.05 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: 47000.00 lb
			<u>Total Volume: 57.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4204.00 ft			Final 47000.00 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
Change Over Sub	1.00			4185.00	
Shut In Tool	5.00			4190.00	
Hydraulic tool	5.00			4195.00	
Packer	5.00			4200.00	20.00 Bottom Of Top Packer
Packer	4.00			4204.00	
Stubb	1.00			4205.00	
Recorder	0.00	6667	Inside	4205.00	
Recorder	0.00	6771	Outside	4205.00	
Perforations	30.00			4235.00	
Bullnose	5.00			4240.00	36.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29509

DST#: 1

ATTN: Phil Askey

Test Start: 2007.11.21 @ 17:09:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	100%M	1.816

Total Length: 210.00 ft

Total Volume: 1.816 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

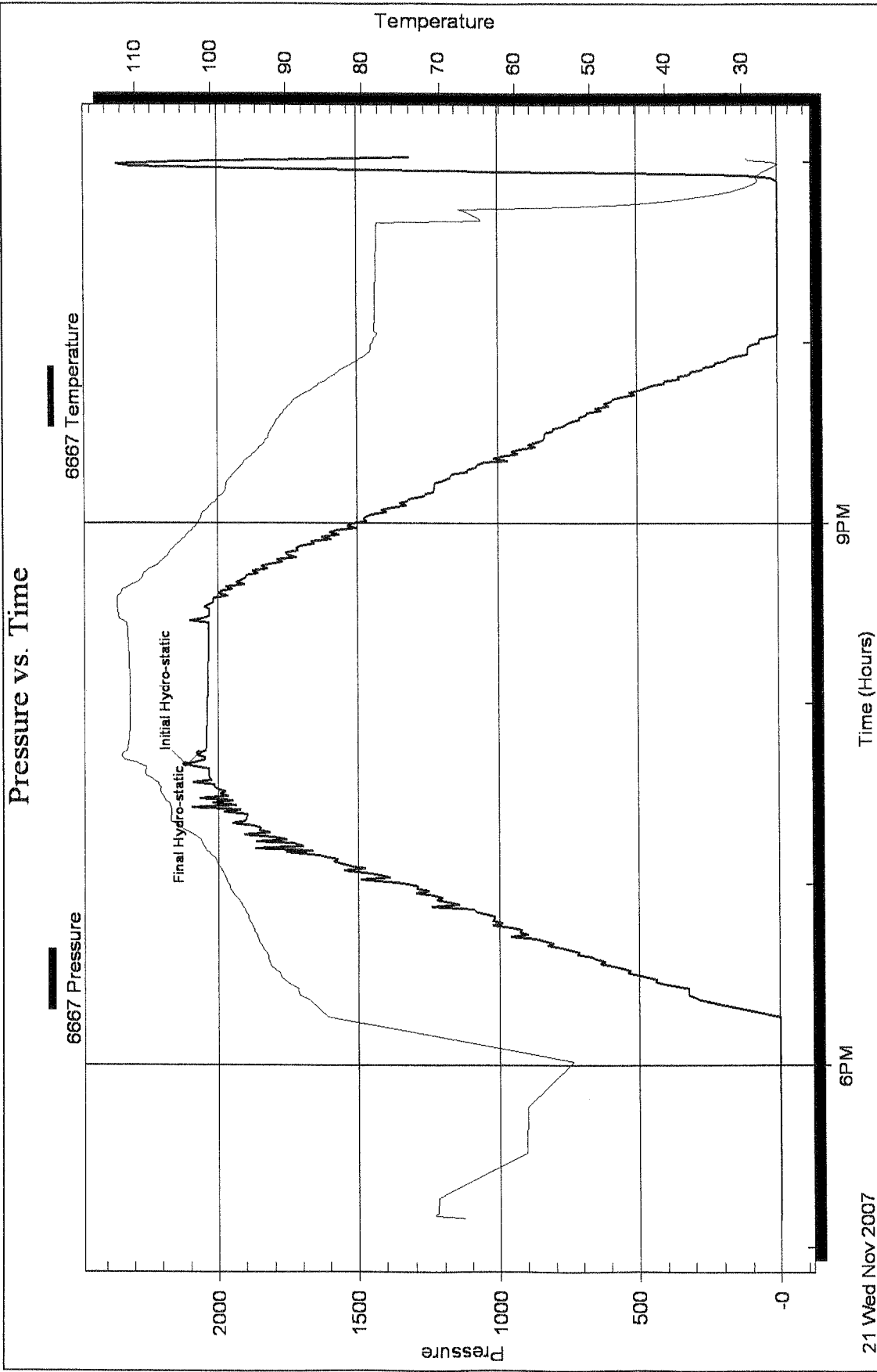
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

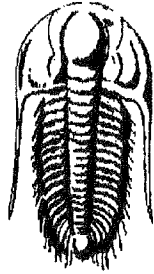
Pressure vs. Time



21 Wed Nov 2007

6PM

9PM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

9 19 28 Lane KS

Hineman Farms #1-9

Start Date: 2007.11.21 @ 23:12:05

End Date: 2007.11.22 @ 03:45:14

Job Ticket #: 29510 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co Inc

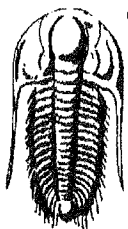
Hineman Farms #1-9

9 19 28 Lane KS

DST # 2

1

2007.11.21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co Inc

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Hineman Farms #1-9

9 19 28 Lane KS

Job Ticket: 29510

DST#: 2

Test Start: 2007.11.21 @ 23:12:05

GENERAL INFORMATION:

Formation: I
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:00:00
Time Test Ended: 03:45:14

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: **4191.00 ft (KB) To 4240.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2767.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 Inside

Press@RunDepth: psig @ 4192.00 ft (KB)

Start Date: 2007.11.21

End Date: 2007.11.22

Capacity: 7000.00 psig

Start Time: 23:12:05

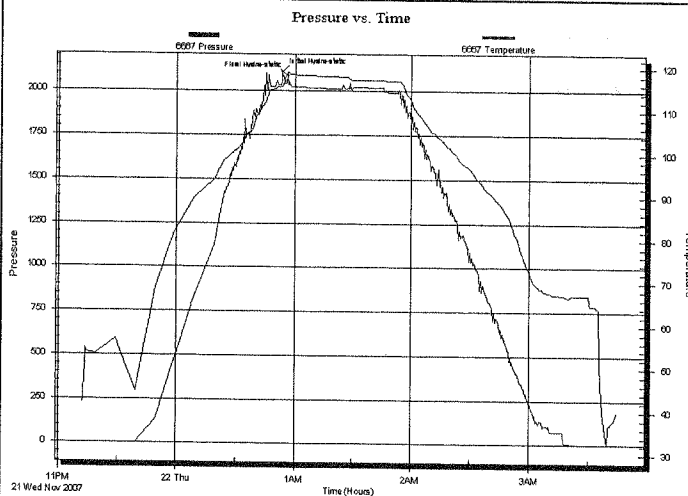
End Time: 03:45:14

Last Calib.: 2007.11.22

Time On Btm: 2007.11.22 @ 00:53:30

Time Off Btm: 2007.11.22 @ 00:56:30

TEST COMMENT: Packers failed @ open reset failed again pull tool



PRESSURE SUMMARY

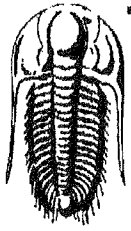
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.61	115.63	Initial Hydro-static
3	2085.95	118.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbt)
150.00	100%M	0.97

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29510

DST#: 2

ATTN: Phil Askey

Test Start: 2007.11.21 @ 23:12:05

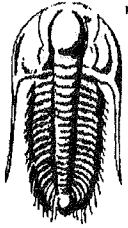
Tool Information

Drill Pipe:	Length: 4067.00 ft	Diameter: 3.80 inches	Volume: 57.05 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: 47000.00 lb
			<u>Total Volume: 57.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4191.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 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			4172.00	
Shut In Tool	5.00			4177.00	
Hydraulic tool	5.00			4182.00	
Packer	5.00			4187.00	20.00 Bottom Of Top Packer
Packer	4.00			4191.00	
Stubb	1.00			4192.00	
Recorder	0.00	6667	Inside	4192.00	
Recorder	0.00	6771	Outside	4192.00	
Perforations	10.00			4202.00	
Change Over Sub	1.00			4203.00	
Drill Pipe	31.00			4234.00	
Change Over Sub	1.00			4235.00	
Bullnose	5.00			4240.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29510

DST#: 2

ATTN: Phil Askey

Test Start: 2007.11.21 @ 23:12:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	100%M	0.975

Total Length: 150.00 ft

Total Volume: 0.975 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

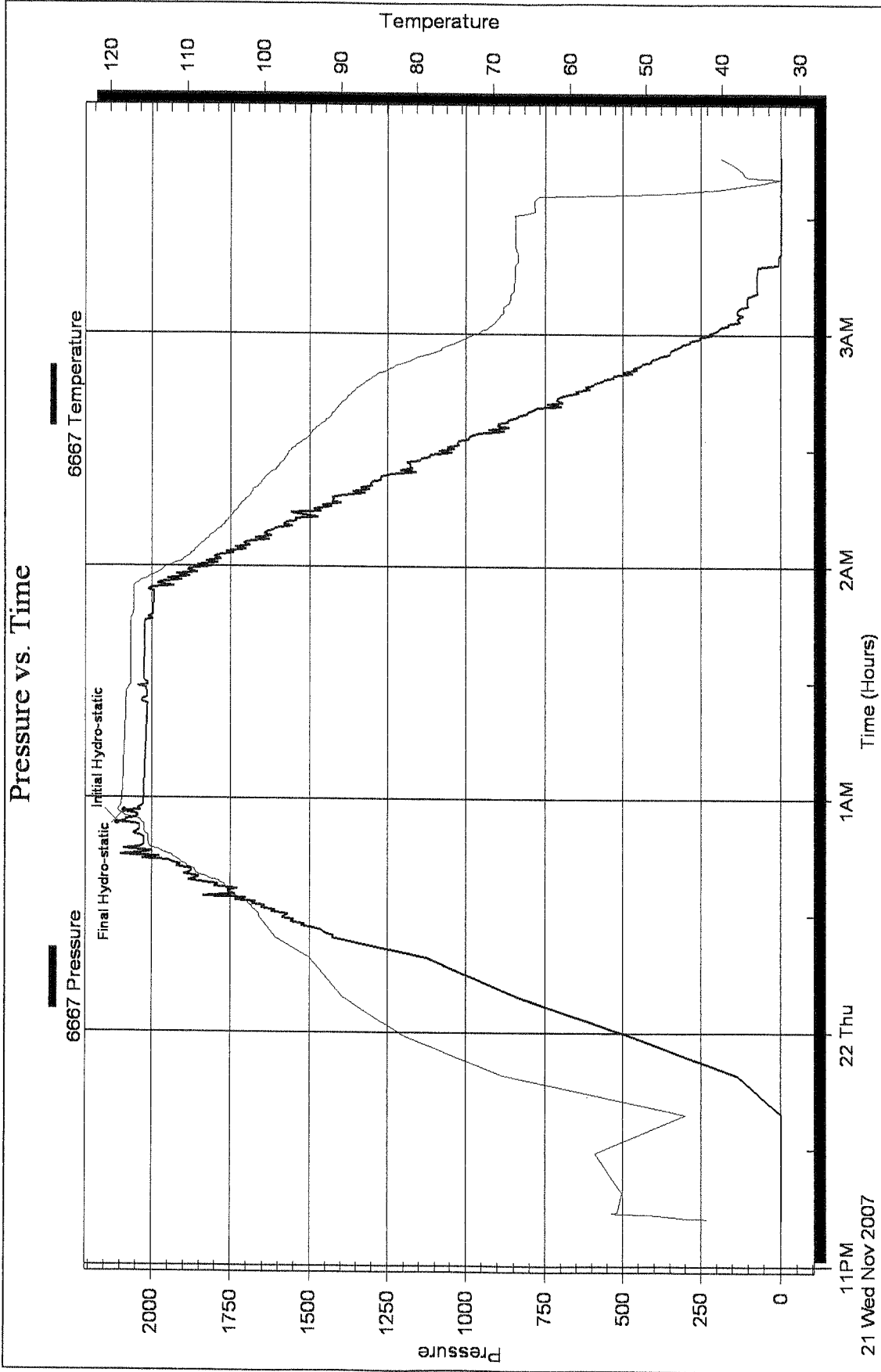
Inside

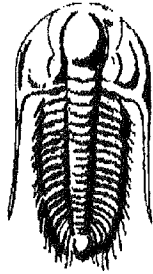
Mull Drilling Co Inc

9 19 28 Lane KS

DST Test Number: 2

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

9 19 28 Lane KS

Hineman Farms #1-9

Start Date: 2007.11.22 @ 03:54:05

End Date: 2007.11.22 @ 08:51:44

Job Ticket #: 29511 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co Inc

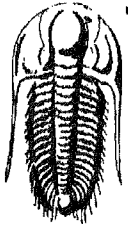
Hineman Farms #1-9

9 19 28 Lane KS

DST # 3

1

2007.11.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co Inc
PO Box 2758
Wichita KS 67201
ATTN: Phil Askey

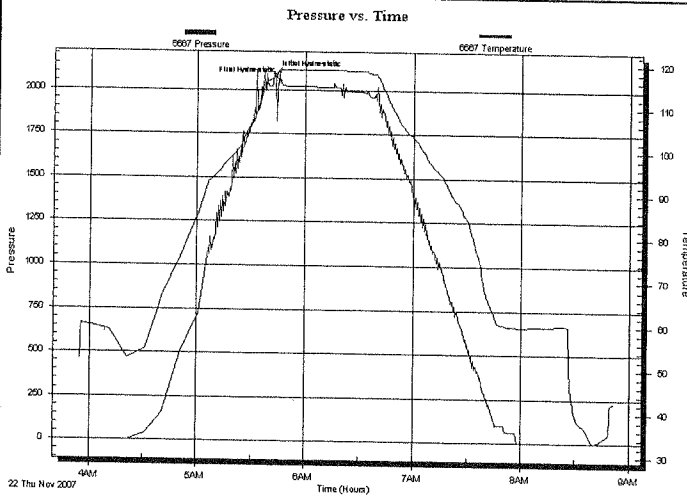
Hineman Farms #1-9
9 19 28 Lane KS
Job Ticket: 29511 **DST#: 3**
Test Start: 2007.11.22 @ 03:54:05

GENERAL INFORMATION:

Formation: **I**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 05:45:00
Time Test Ended: 08:51:44
Interval: **4164.00 ft (KB) To 4240.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40
Reference Elevations: 2767.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: psig @ 4165.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2007.11.22 End Date: 2007.11.22 Last Calib.: 2007.11.22
Start Time: 03:54:05 End Time: 08:51:44 Time On Btm: 2007.11.22 @ 05:43:15
Time Off Btm: 2007.11.22 @ 05:46:45

TEST COMMENT: Packers failed @ open reset failed again pull tool



PRESSURE SUMMARY

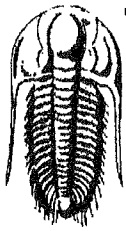
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.07	116.97	Initial Hydro-static
4	2051.23	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	100%M	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29511

DST#: 3

ATTN: Phil Askey

Test Start: 2007.11.22 @ 03:54:05

Tool Information

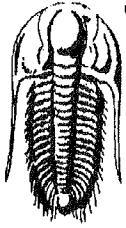
Drill Pipe:	Length: 4037.00 ft	Diameter: 3.80 inches	Volume: 56.63 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	47000.00 lb
		Total Volume: 57.24 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	4164.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	96.00 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			4145.00	
Shut In Tool	5.00			4150.00	
Hydraulic tool	5.00			4155.00	
Packer	5.00			4160.00	20.00 Bottom Of Top Packer
Packer	4.00			4164.00	
Stubb	1.00			4165.00	
Recorder	0.00	6667	Inside	4165.00	
Recorder	0.00	6771	Outside	4165.00	
Perforations	5.00			4170.00	
Change Over Sub	1.00			4171.00	
Drill Pipe	63.00			4234.00	
Change Over Sub	1.00			4235.00	
Bullnose	5.00			4240.00	76.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29511

DST#: 3

ATTN: Phil Askey

Test Start: 2007.11.22 @ 03:54:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
180.00	100%M	1.395

Total Length: 180.00 ft

Total Volume: 1.395 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

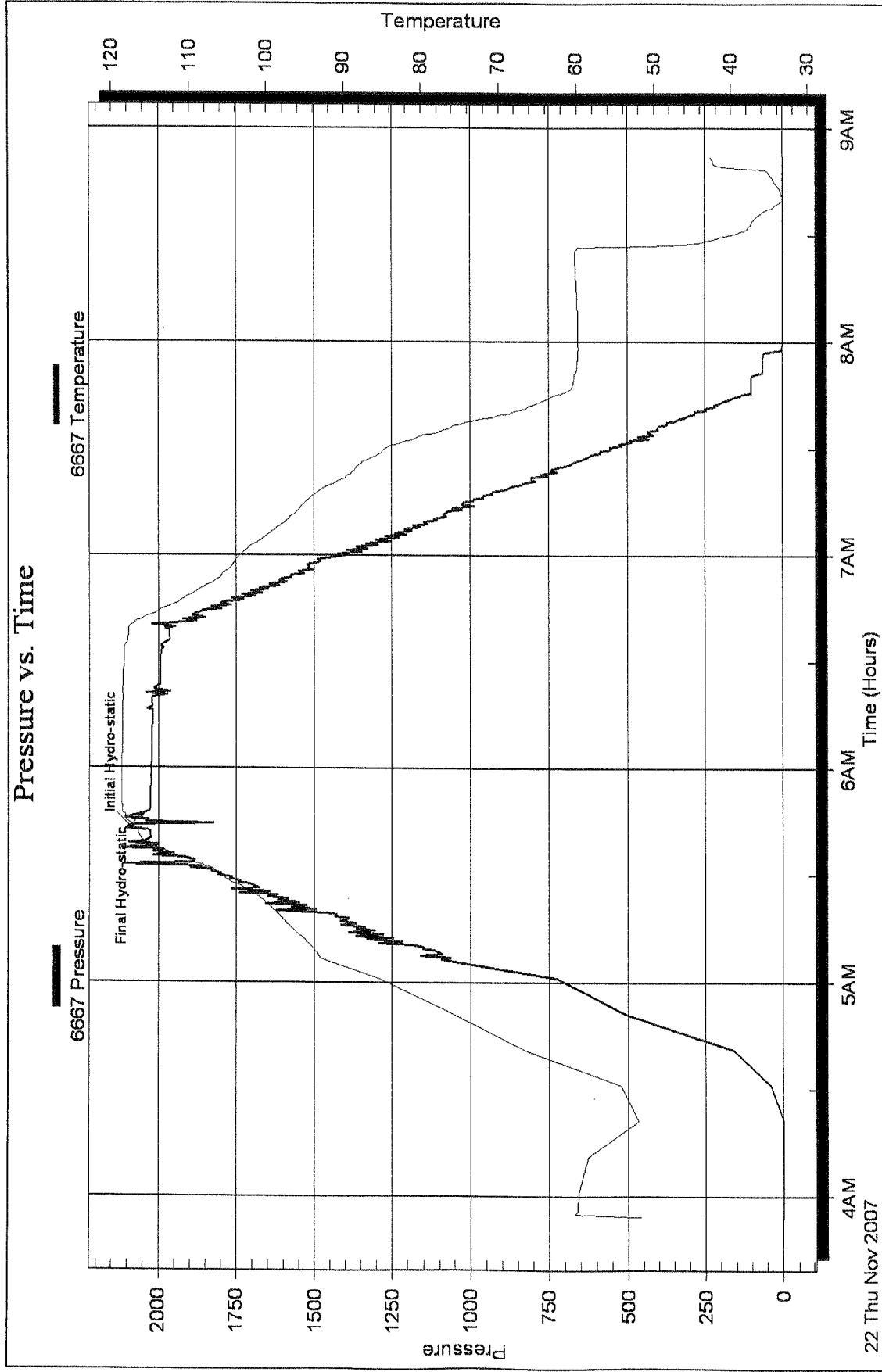
Inside

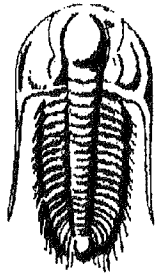
Mull Drilling Co Inc

9 19 28 Lane KS

DST Test Number: 3

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

9 19 28 Lane KS

Hineman Farms #1-9

Start Date: 2007.11.22 @ 14:28:31

End Date: 2007.11.22 @ 22:18:25

Job Ticket #: 29754 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co Inc

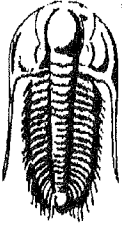
Hineman Farms #1-9

9 19 28 Lane KS

DST # 4

Lansing I

2007.11.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 PO Box 2758
 Wichita KS 67201
 ATTN: Phil Askey

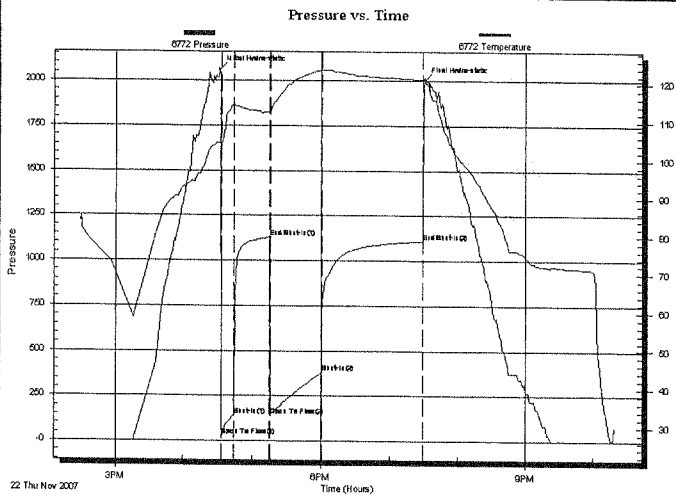
Hineman Farms #1-9
9 19 28 Lane KS
 Job Ticket: 29754 **DST#: 4**
 Test Start: 2007.11.22 @ 14:28:31

GENERAL INFORMATION:

Formation: **Lansing I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:33:56
 Time Test Ended: 22:18:25
 Interval: **4151.00 ft (KB) To 4240.00 ft (KB) (TVD)**
 Total Depth: 4240.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35
 Reference Elevations: 2767.00 ft (KB)
 2762.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6772 Outside
 Press@RunDepth: 379.62 psig @ 4152.00 ft (KB)
 Start Date: 2007.11.22 End Date: 2007.11.22
 Start Time: 14:28:31 End Time: 22:18:25
 Capacity: 7000.00 psig
 Last Calib.: 2007.11.22
 Time On Btm: 2007.11.22 @ 16:31:56
 Time Off Btm: 2007.11.22 @ 19:30:10

TEST COMMENT: IF BOB in 6 min.
 IS No return
 FF BOB in 8 min.
 FS No return



PRESSURE SUMMARY

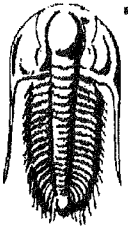
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.65	104.56	Initial Hydro-static
2	28.01	103.87	Open To Flow (1)
13	138.71	114.38	Shut-In(1)
44	1128.15	112.65	End Shut-In(1)
44	141.93	112.47	Open To Flow (2)
89	379.62	123.55	Shut-In(2)
177	1108.97	121.21	End Shut-In(2)
179	2003.19	121.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	MCW 95%W 5%M	0.60
186.00	MCW 80%W 20%M	2.61
186.00	WCM 20%W 80%M	2.61
248.00	100%M	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29754

DST#: 4

ATTN: Phil Askey

Test Start: 2007.11.22 @ 14:28:31

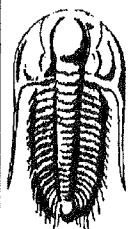
Tool Information

Drill Pipe:	Length: 4037.00 ft	Diameter: 3.80 inches	Volume: 56.63 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: 30000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
		<u>Total Volume:</u>	<u>57.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4151.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4132.00	
Shut In Tool	5.00			4137.00	
Hydraulic tool	5.00			4142.00	
Packer	5.00			4147.00	20.00 Bottom Of Top Packer
Packer	4.00			4151.00	
Stubb	1.00			4152.00	
Recorder	0.00	8353	Inside	4152.00	
Recorder	0.00	6772	Outside	4152.00	
Perforations	18.00			4170.00	
Change Over Sub	1.00			4171.00	
Drill Pipe	63.00			4234.00	
Change Over Sub	1.00			4235.00	
Bullnose	5.00			4240.00	89.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc

Hineman Farms #1-9

PO Box 2758
Wichita KS 67201

9 19 28 Lane KS

Job Ticket: 29754

DST#: 4

ATTN: Phil Askey

Test Start: 2007.11.22 @ 14:28:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
123.00	MCW 95%W 5%M	0.605
186.00	MCW 80%W 20%M	2.609
186.00	WCM 20%W 80%M	2.609
248.00	100%M	3.479

Total Length: 743.00 ft

Total Volume: 9.302 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

