

**TRILOBITE
TESTING, INC.**

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 07 2002

CONSERVATION DIVISION

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

P.O. Box 2758

Wichita, KS 67201-2758

CONFIDENTIAL **KCC**

ATTN: Mull Drilling Co.

JAN 04 2002

21-17s-27w Lane, KS

CONFIDENTIAL

Glen Eitel #1-21

Release

Start Date: 2001.11.14 @ 13:56:49

MAR 20 2003

End Date: 2001.11.14 @ 21:53:43

From

Job Ticket #: 15003

DST #: 1

Confidential

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company


Glen Eitel #1-21

21-17s-27w Lane, KS

DST # 1

KC "r" 160

2001.11.14

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Mull Drilling Company P.O. Box 2758 Wichita, KS 67201-2758 ATTN: Mull Drilling Co.	Glen Eitel #1-21 21-17s-27w Lane, Ks Job Ticket: 15003 DST#: 1 Test Start: 2001.11.14 @ 13:56:49

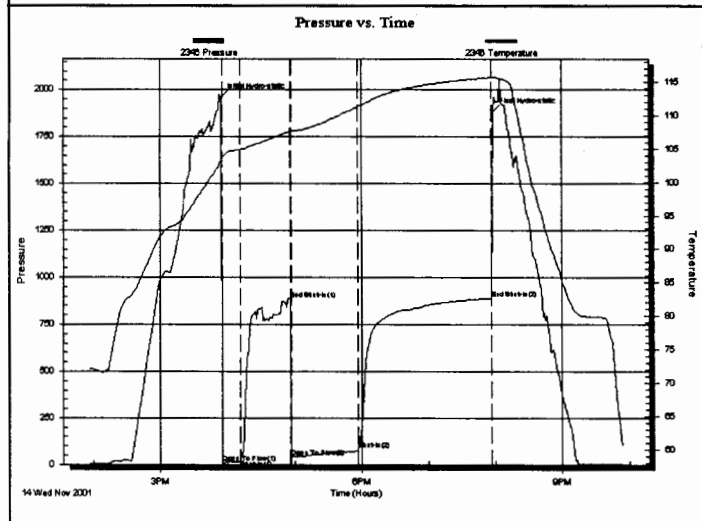
GENERAL INFORMATION:

Formation: KC "I" 160	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole
Time Tool Opened: 15:55:44	Time Test Ended: 21:53:43	Tester: Shane McBride
Interval: 4100.00 ft (KB) To 4160.00 ft (KB) (TVD)		Unit No: 15
Total Depth: 4160.00 ft (KB) (TVD)		Reference Elevations: 2655.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Fair		2647.00 ft (CF)
		KB to GR/CF: 8.00 ft

Serial #: 2346

Press@RunDepth: 80.10 psig @ 4101.00 ft (KB)	Capacity: 7000.00 psig
Start Date: 2001.11.14 End Date: 2001.11.14	Last Calib.: 1899.12.30
Start Time: 13:56:49 End Time: 21:53:43	Time On Btm: 2001.11.14 @ 15:54:44
	Time Off Btm: 2001.11.14 @ 19:57:43

TEST COMMENT: 1/4" in @ open , built to 2 1/2" in.
 No return
 Surface blow built to 8 1/2" in.
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.80	103.37	Initial Hydro-static
1	10.21	103.70	Open To Flow (1)
17	22.91	104.88	Shut-In(1)
61	882.19	107.56	End Shut-In(1)
62	40.07	107.61	Open To Flow (2)
122	80.10	111.28	Shut-In(2)
242	890.23	115.71	End Shut-In(2)
243	1881.93	115.74	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1.00	free oil	0.01
101.00	o c m 15%o 85%m	1.42

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758
ATTN: Mull Drilling Co.

Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15003 **DST#: 1**
Test Start: 2001.11.14 @ 13:56:49

Tool Information

Drill Pipe:	Length: 4096.00 ft	Diameter: 3.80 inches	Volume: 57.46 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	4100.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

CONFIDENTIAL KCC
JAN 04 2002
CONFIDENTIAL ORIGINAL

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			4081.00	
S.I. Tool	5.00			4086.00	
HMV	5.00			4091.00	
Packer	5.00			4096.00	20.00 Bottom Of Top Packer
Packer	4.00			4100.00	
Stubb	1.00			4101.00	
Recorder	0.00	2346		4101.00	
Perforations	21.00			4122.00	
C.O. Sub	1.00			4123.00	
drillpipe	31.00			4154.00	
C.O. Sub	1.00			4155.00	
Recorder	0.00	11057		4155.00	
Bullnose	5.00			4160.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758

ATTN: Mull Drilling Co.

Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15003 **DST#: 1**
Test Start: 2001.11.14 @ 13:56:49

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: 7.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

JAV

Recovery Table

Length ft	Description	Volume bbl
1.00	free oil	0.014
101.00	o c m 15%o 85%m	1.417

Total Length: 102.00 ft Total Volume: 1.431 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

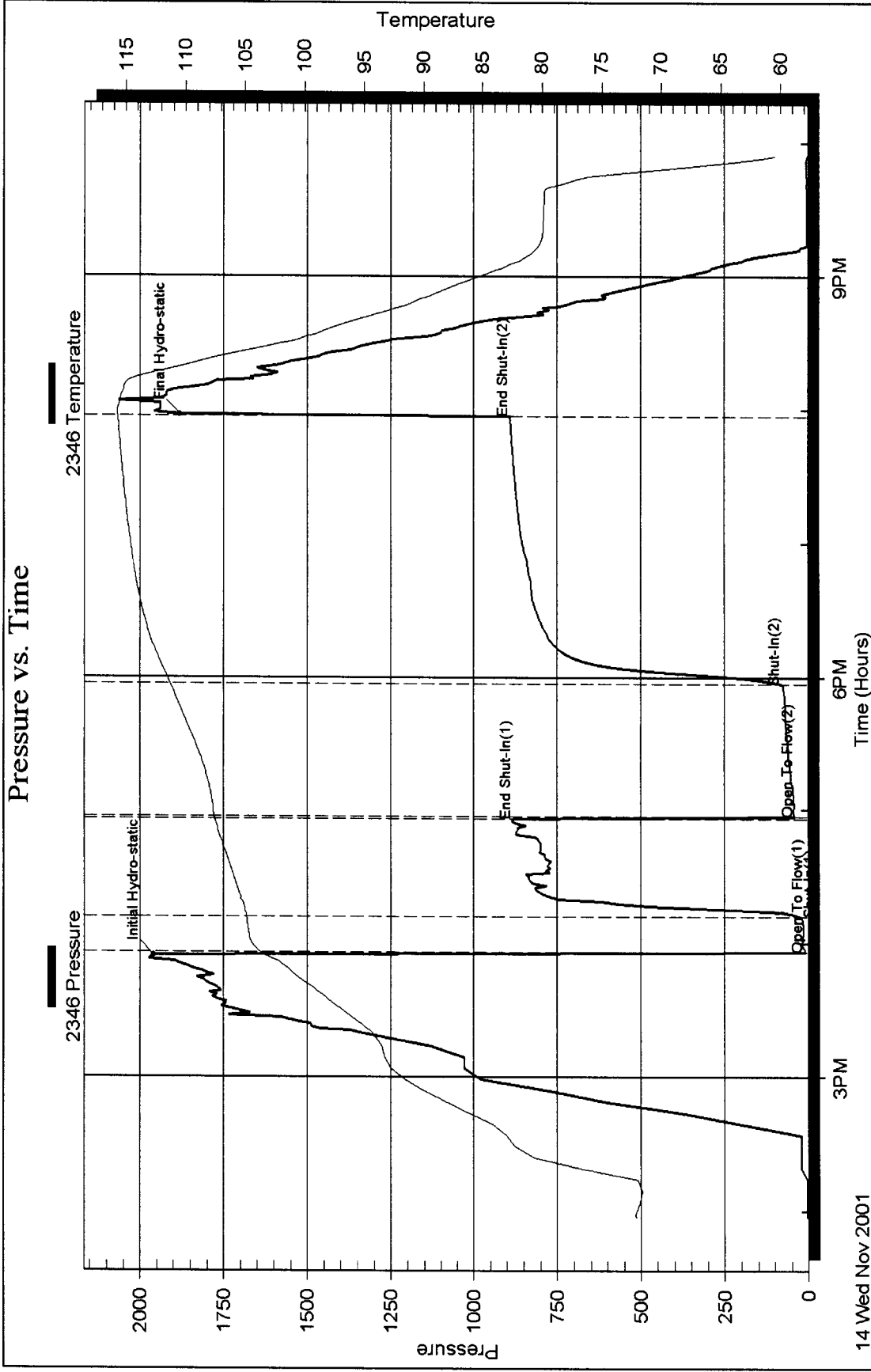
Serial #: 2346

Mull Drilling Company

21-17s-27w Lane, Ks

DST Test Number: 1

Pressure vs. Time



14 Wed Nov 2001

3PM

6PM

9PM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

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

ATTN: Mull Drilling Co.

21-17s-27w Lane, Ks

Glen Eitel #1-21

Start Date: 2001.11.15 @ 10:06:57

End Date: 2001.11.15 @ 17:08:51

Job Ticket #: 15004 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company

Glen Eitel #1-21

21-17s-27w Lane, Ks

DST # 2

KC K 200

2001.11.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758

ATTN: Mull Drilling Co.

Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15004 **DST#: 2**
Test Start: 2001.11.15 @ 10:06:57

Tool Information

Drill Pipe:	Length: 4187.00 ft	Diameter: 3.80 inches	Volume: 58.73 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4200.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4181.00	
S.I. Tool	5.00			4186.00	
HMV	5.00			4191.00	
Packer	5.00			4196.00	20.00 Bottom Of Top Packer
Packer	4.00			4200.00	
Stubb	1.00			4201.00	
Recorder	0.00	2346		4201.00	
Perforations	21.00			4222.00	
Recorder	0.00	11057		4222.00	
Bullnose	5.00			4227.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758
ATTN: Mull Drilling Co.

Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15004 **DST#: 2**
Test Start: 2001.11.15 @ 10:06:57

Mud and Cushion Information

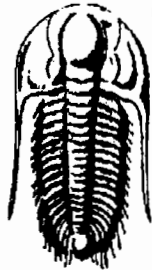
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	WCM Trace of oil 40%w ater 60%mud	0.561
	.247 @ 71 F	

Total Length: 40.00 ft Total Volume: 0.561 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

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

ATTN: Mull Drilling Co.

21-17s-27w Lane, Ks

Glen Eitel #1-21

Start Date: 2001.11.16 @ 10:08:57

End Date: 2001.11.16 @ 15:48:56

Job Ticket #: 15005 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company

Glen Eitel #1-21

21-17s-27w Lane, Ks

DST # 3

KC-L-220-pleas-marm

2001.11.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758
ATTN: Mull Drilling Co.

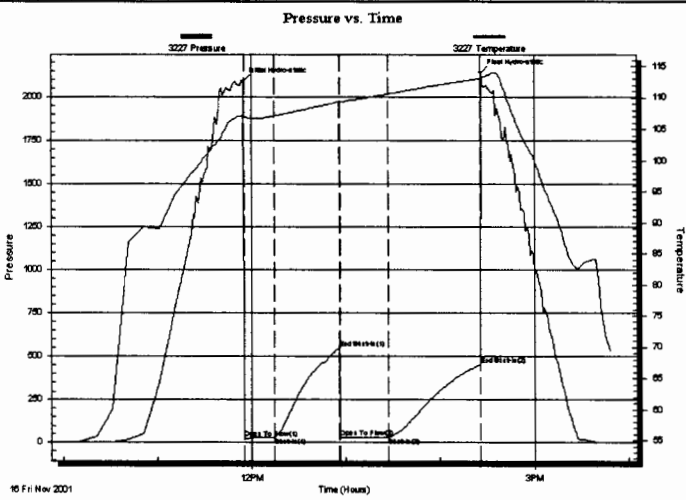
Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15005 **DST#: 3**
Test Start: 2001.11.16 @ 10:08:57

GENERAL INFORMATION:

Formation: **KC-L-220-pleas-marm**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:54:56
Time Test Ended: 15:48:56
Interval: **4235.00 ft (KB) To 4325.00 ft (KB) (TVD)**
Total Depth: 4325.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 15
Reference Elevations: 2655.00 ft (KB)
2647.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3227 Inside
Press@RunDepth: 30.51 psig @ 4236.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.11.16 End Date: 2001.11.16 Last Calib.: 1899.12.30
Start Time: 10:08:57 End Time: 15:48:56 Time On Btm: 2001.11.16 @ 11:54:26
Time Off Btm: 2001.11.16 @ 14:25:56

TEST COMMENT: 1/4" in. @ open , died back to a weak surface
No return
No blow , flush tool after 6 min. , good surge , No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.76	107.08	Initial Hydro-static
1	27.25	106.89	Open To Flow (1)
20	29.65	107.02	Shut-in(1)
61	548.44	109.30	End Shut-in(1)
62	27.73	109.29	Open To Flow (2)
92	30.51	110.55	Shut-in(2)
151	454.47	113.01	End Shut-in(2)
152	2141.64	113.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling mud w/oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758
ATTN: Mull Drilling Co.

Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15005 **DST#: 3**
Test Start: 2001.11.16 @ 10:08:57

Tool Information


Drill Pipe:	Length: 4247.00 ft	Diameter: 3.80 inches	Volume: 59.57 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4235.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4215.00	
S.I. Tool	5.00			4220.00	
HMV	5.00			4225.00	
Packer	5.00			4230.00	21.00 Bottom Of Top Packer
Packer	5.00			4235.00	
Stubb	1.00			4236.00	
Recorder	0.00	3227	Inside	4236.00	
Perforations	20.00			4256.00	
C.O. Sub	1.00			4257.00	
drillpipe	62.00			4319.00	
C.O. Sub	1.00			4320.00	
Recorder	0.00	11057	Outside	4320.00	
Bullnose	5.00			4325.00	90.00 Bottom Packers & Anchor

Total Tool Length: 111.00

 TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT		FLUID SUMMARY							
		Mull Drilling Company		Glen Eitel #1-21							
P.O. Box 2758 Wichita, KS 67201-2758		21-17s-27w Lane, Ks		Job Ticket: 15005 DST#: 3							
ATTN: Mull Drilling Co.		Test Start: 2001.11.16 @ 10:08:57									
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:	51.00 sec/qt	Cushion Volume:	bbl								
Water Loss:	7.92 in ³	Gas Cushion Type:									
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig								
Salinity:	3000.00 ppm										
Filter Cake:	1.00 inches										
Recovery Information											
Recovery Table											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 55%;">Description</th> <th style="width: 30%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5.00</td> <td>Drilling mud w /oil spots</td> <td style="text-align: center;">0.070</td> </tr> </tbody> </table>						Length ft	Description	Volume bbl	5.00	Drilling mud w /oil spots	0.070
Length ft	Description	Volume bbl									
5.00	Drilling mud w /oil spots	0.070									
Total Length:	5.00 ft	Total Volume:	0.070 bbl								
Num Fluid Samples:	0	Num Gas Bombs:	0	Serial #:							
Laboratory Name:		Laboratory Location:									
Recovery Comments:											

Serial #: 3227

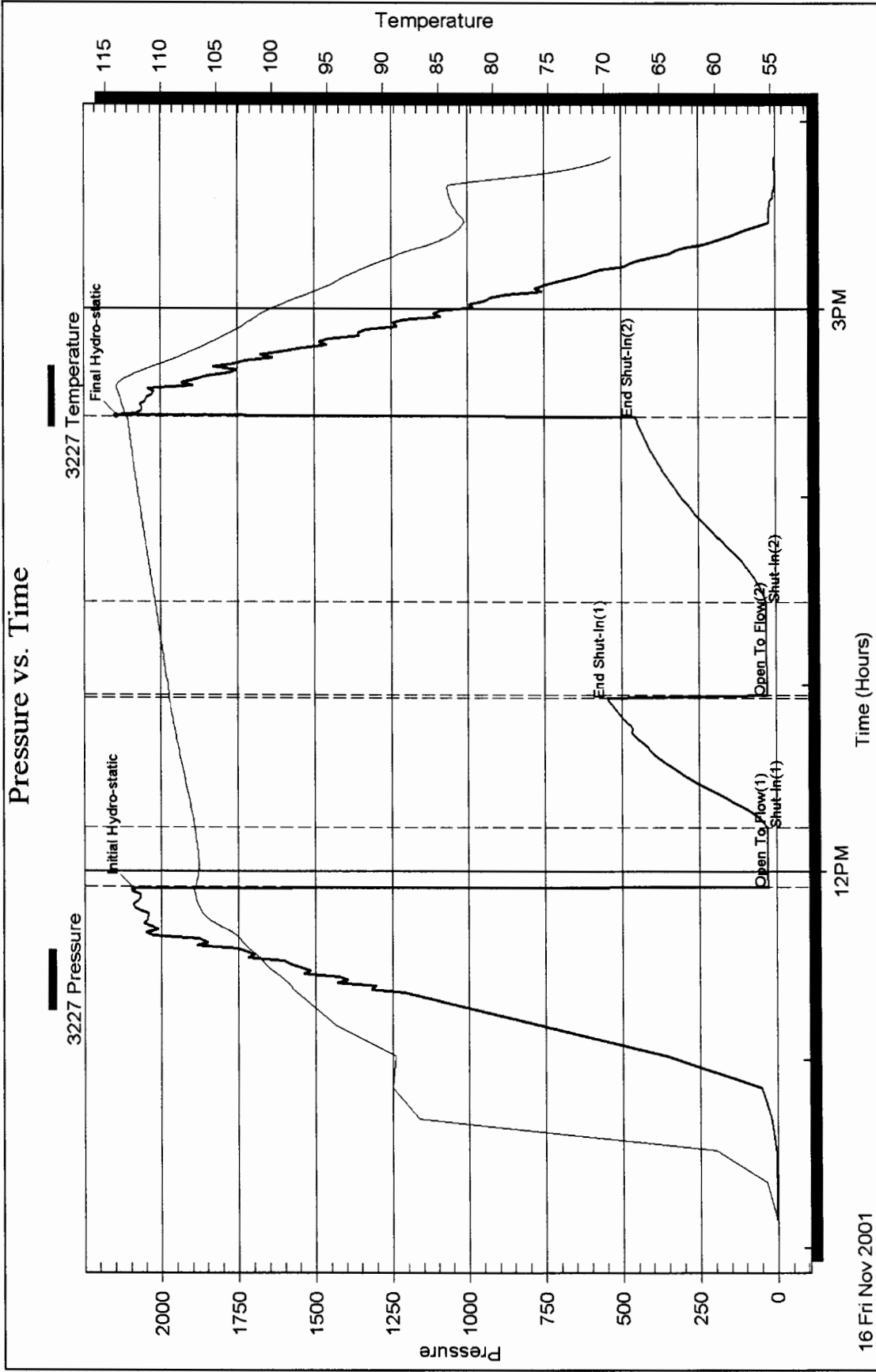
Inside

Mull Drilling Company

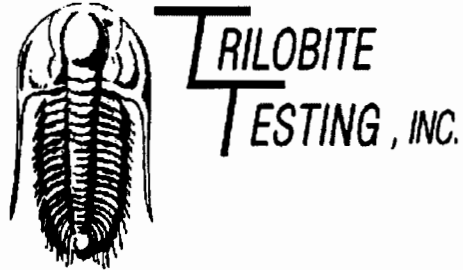
21-17s-27w Lane, Ks

DST Test Number: 3

Pressure vs. Time



16 Fri Nov 2001



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

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

ATTN: Mull Drilling Co.

21-17s-27w Lane, Ks


Glen Eitel #1-21

Start Date: 2001.11.17 @ 15:21:46

End Date: 2001.11.17 @ 21:56:15

Job Ticket #: 15006 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 P.O. Box 2758 Wichita, KS 67201-2758 ATTN: Mull Drilling Co.	Glen Eitel #1-21 21-17s-27w Lane, Ks Job Ticket: 15006 DST#: 4 Test Start: 2001.11.17 @ 15:21:46

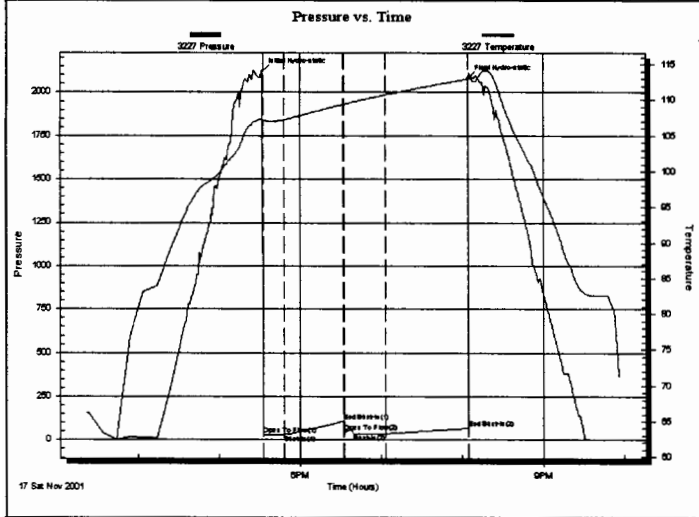
GENERAL INFORMATION:

Formation: marm-chokeee (Lm)	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Shane McBride
Time Tool Opened: 17:32:45	Unit No: 15
Time Test Ended: 21:56:15	Reference Elevations: 2655.00 ft (KB)
Interval: 4312.00 ft (KB) To 4522.00 ft (KB) (TVD)	2647.00 ft (CF)
Total Depth: 4522.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 3227

Press@RunDepth: 35.76 psig @ 4313.00 ft (KB)	Capacity: 7000.00 psig
Start Date: 2001.11.17 End Date: 2001.11.17	Last Calib.: 1899.12.30
Start Time: 15:21:46 End Time: 21:56:15	Time On Btm: 2001.11.17 @ 17:32:15
	Time Off Btm: 2001.11.17 @ 20:04:45

TEST COMMENT: 1/4" in. @ open built to 1/2" in.
 No return
 No blow, flush tool after 6 min.-good surge-no blow
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.19	107.34	Initial Hydro-static
1	28.25	107.13	Open To Flow (1)
16	29.83	107.18	Shut-In(1)
60	109.32	109.40	End Shut-In(1)
61	44.77	109.41	Open To Flow (2)
91	35.76	110.71	Shut-In(2)
152	67.30	112.91	End Shut-In(2)
153	2081.52	113.17	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	drilling mud 100% mud	0.28

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company
 P.O. Box 2758
 Wichita, KS 67201-2758
 ATTN: Mull Drilling Co.

Glen Eitel #1-21
21-17s-27w Lane, Ks
 Job Ticket: 15006 **DST#: 4**
 Test Start: 2001.11.17 @ 15:21:46


Tool Information

Drill Pipe:	Length: 4314.00 ft	Diameter: 3.80 inches	Volume: 60.51 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4312.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	210.00 ft			
Tool Length:	230.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4293.00	
S.I. Tool	5.00			4298.00	
HMV	5.00			4303.00	
Packer	5.00			4308.00	20.00 Bottom Of Top Packer
Packer	4.00			4312.00	
Stubb	1.00			4313.00	
Recorder	0.00	3227		4313.00	
Perforations	16.00			4329.00	
C.O. Sub	1.00			4330.00	
drillpipe	186.00			4516.00	
C.O. Sub	1.00			4517.00	
Recorder	0.00	11057		4517.00	
Bullnose	5.00			4522.00	210.00 Bottom Packers & Anchor

Total Tool Length: 230.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Mull Drilling Company P.O. Box 2758 Wichita, KS 67201-2758 ATTN: Mull Drilling Co.	Glen Eitel #1-21 21-17s-27w Lane, Ks Job Ticket: 15006 DST#: 4 Test Start: 2001.11.17 @ 15:21:46	

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	drilling mud 100% mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

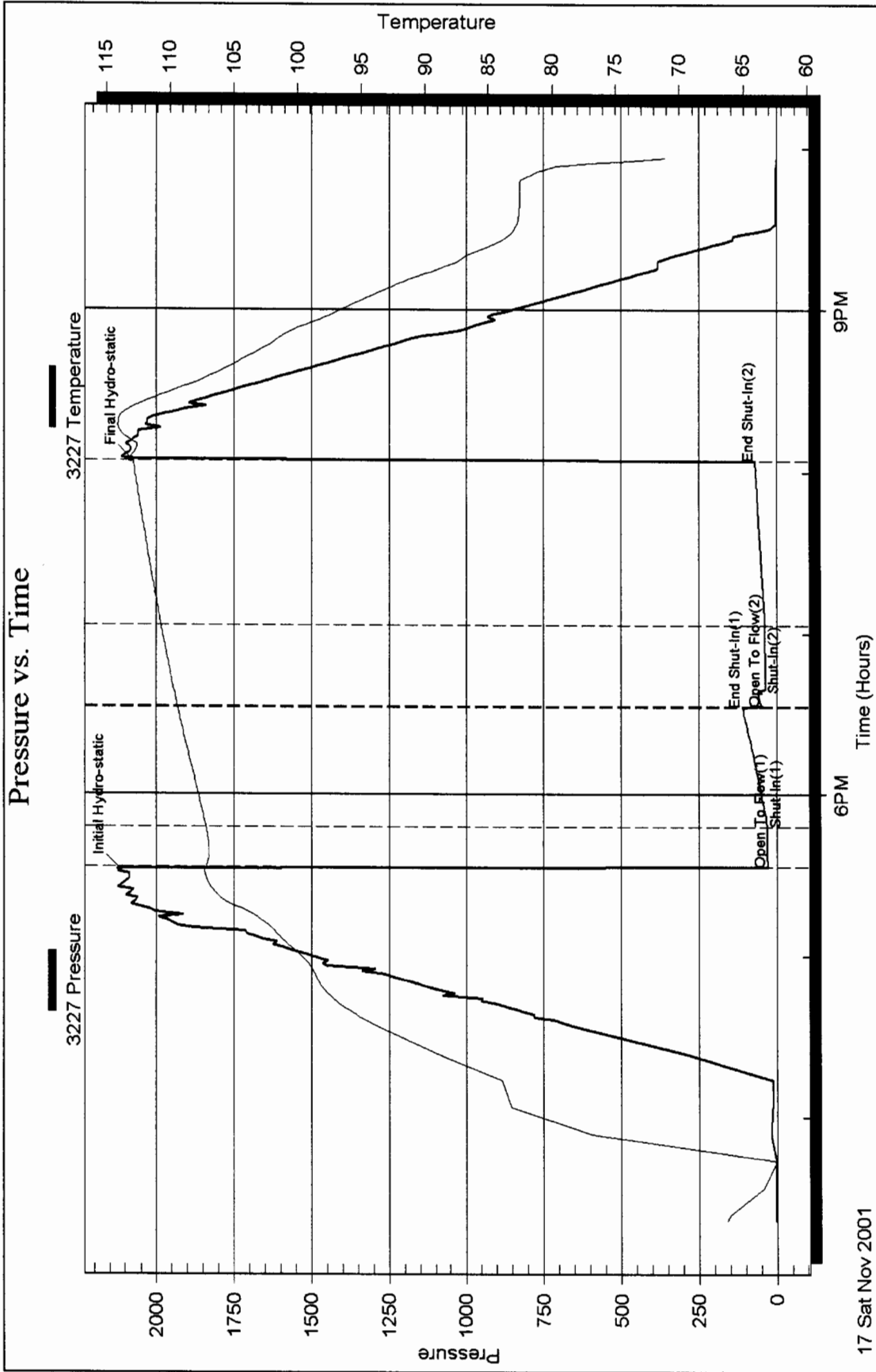
Serial #: 3227

Mull Drilling Company

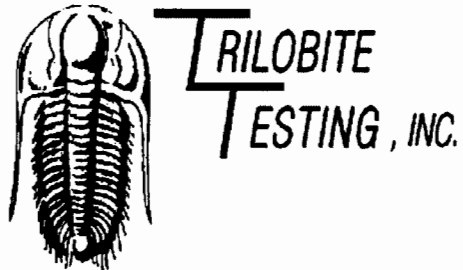
21-17s-27w Lane, Ks

DST Test Number: 4

Pressure vs. Time



17 Sat Nov 2001



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

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

ATTN: Mull Drilling Co.

21-17s-27w Lane, Ks

Glen Eitel #1-21

Start Date: 2001.11.18 @ 07:57:19

End Date: 2001.11.18 @ 13:38:48

Job Ticket #: 15007 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company
P.O. Box 2758
Wichita, KS 67201-2758
ATTN: Mull Drilling Co.


Glen Eitel #1-21
21-17s-27w Lane, Ks
Job Ticket: 15007 **DST#: 5**
Test Start: 2001.11.18 @ 07:57:19

Tool Information

Drill Pipe:	Length: 4499.00 ft	Diameter: 3.80 inches	Volume: 63.11 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 63.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4494.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4475.00	
S.I. Tool	5.00			4480.00	
HMV	5.00			4485.00	
Packer	5.00			4490.00	20.00 Bottom Of Top Packer
Packer	4.00			4494.00	
Stubb	1.00			4495.00	
Recorder	0.00	3227		4495.00	
Perforations	33.00			4528.00	
Recorder	0.00	11057		4528.00	
Bullnose	5.00			4533.00	39.00 Bottom Packers & Anchor
Total Tool Length:	59.00				

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT		FLUID SUMMARY
	Mull Drilling Company P.O. Box 2758 Wichita, KS 67201-2758 ATTN: Mull Drilling Co.	Glen Eitel #1-21 21-17s-27w Lane, Ks Job Ticket: 15007 DST#: 5 Test Start: 2001.11.18 @ 07:57:19	

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drilling mud 100% mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 3227

Mull Drilling Company

21-17s-27w Lane, Ks

DST Test Number: 5

Pressure vs. Time

