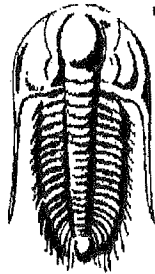


15-135-24598

8-18s-22w

KCS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling CO**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

8 18 22 Ness KS

Sekavec # 1-8

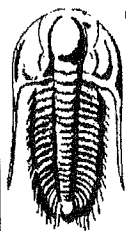
Start Date: 2007.02.22 @ 01:45:55

End Date: 2007.02.22 @ 10:18:55

Job Ticket #: 28226 DST #: 1

KCC
MAY 03 2007
CONFIDENTIAL

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

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Sekavec # 1-8

8 18 22 Ness KS

Job Ticket: 28226

DST#: 1

Test Start: 2007.02.22 @ 01:45:55

GENERAL INFORMATION:

Formation: **CHER Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:40

Time Test Ended: 10:18:55

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 24

Interval: **4188.00 ft (KB) To 4252.00 ft (KB) (TVD)**

Reference Elevations: 2231.00 ft (KB)

Total Depth: 4252.00 ft (KB) (TVD)

2226.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 132.54 psig @ 4192.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.02.22

End Date:

2007.02.22

Last Calib.: 2007.02.22

Start Time: 01:45:57

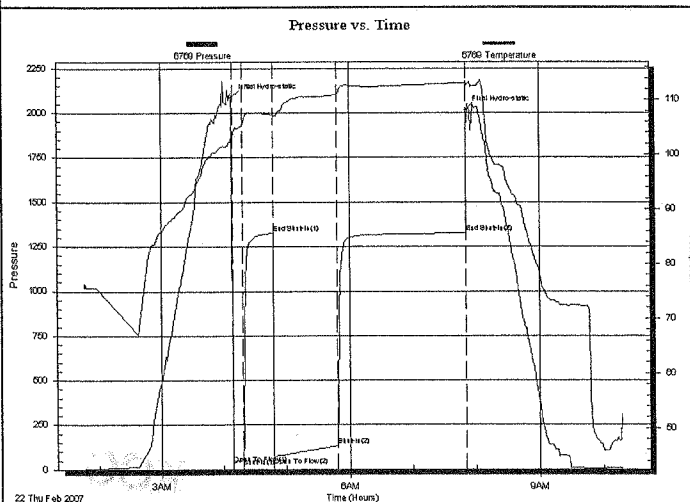
End Time:

10:18:55

Time On Btm: 2007.02.22 @ 04:08:25

Time Off Btm: 2007.02.22 @ 07:50:55

TEST COMMENT: IF Slowly Built to 2 1/2
ISI Dead
FF Built slowly to B of B 40 m
FSI Dead



PRESSURE SUMMARY

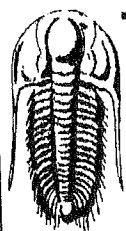
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.25	103.54	Initial Hydro-static
1	29.11	103.01	Open To Flow (1)
10	65.33	105.48	Shut-In(1)
39	1326.10	107.31	End Shut-In(1)
40	69.86	106.95	Open To Flow (2)
101	132.54	110.98	Shut-In(2)
223	1325.14	113.11	End Shut-In(2)
223	2015.82	113.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Clean Oil 5%G 95%O	0.10
240.00	GOcutM 5%G 35%O 60%M	2.42

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 CO

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Sekavec # 1-8

8 18 22 Ness KS

Job Ticket: 28226

DST#: 1

Test Start: 2007.02.22 @ 01:45:55

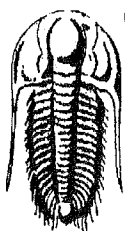
Tool Information

Drill Pipe:	Length: 4053.00 ft	Diameter: 3.80 inches	Volume: 56.85 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	57.46 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4188.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.02 ft				
Tool Length:	89.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4168.00	
Hydraulic tool	5.00			4173.00	
Jars	5.00			4178.00	
Packer	5.00			4183.00	25.00 Bottom Of Top Packer
Packer	5.00			4188.00	
Stubb	1.00			4189.00	
Perforations	2.00			4191.00	
Change Over Sub	1.00			4192.00	
Recorder	0.01	6769	Inside	4192.01	
Blank Spacing	31.00			4223.01	
Change Over Sub	1.00			4224.01	
Perforations	25.00			4249.01	
Recorder	0.01	13548	Outside	4249.02	
Bullnose	3.00			4252.02	64.02 Bottom Packers & Anchor

Total Tool Length: 89.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Sekavec # 1-8

PO Box 2758
Wichita KS 67201

8 18 22 Ness KS

Job Ticket: 28226

DST#: 1

ATTN: Phil Askey

Test Start: 2007.02.22 @ 01:45:55

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Clean Oil 5%G 95%O	0.098
240.00	GOcutM 5%G 35%O 60%M	2.419

Total Length: 260.00 ft

Total Volume: 2.517 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

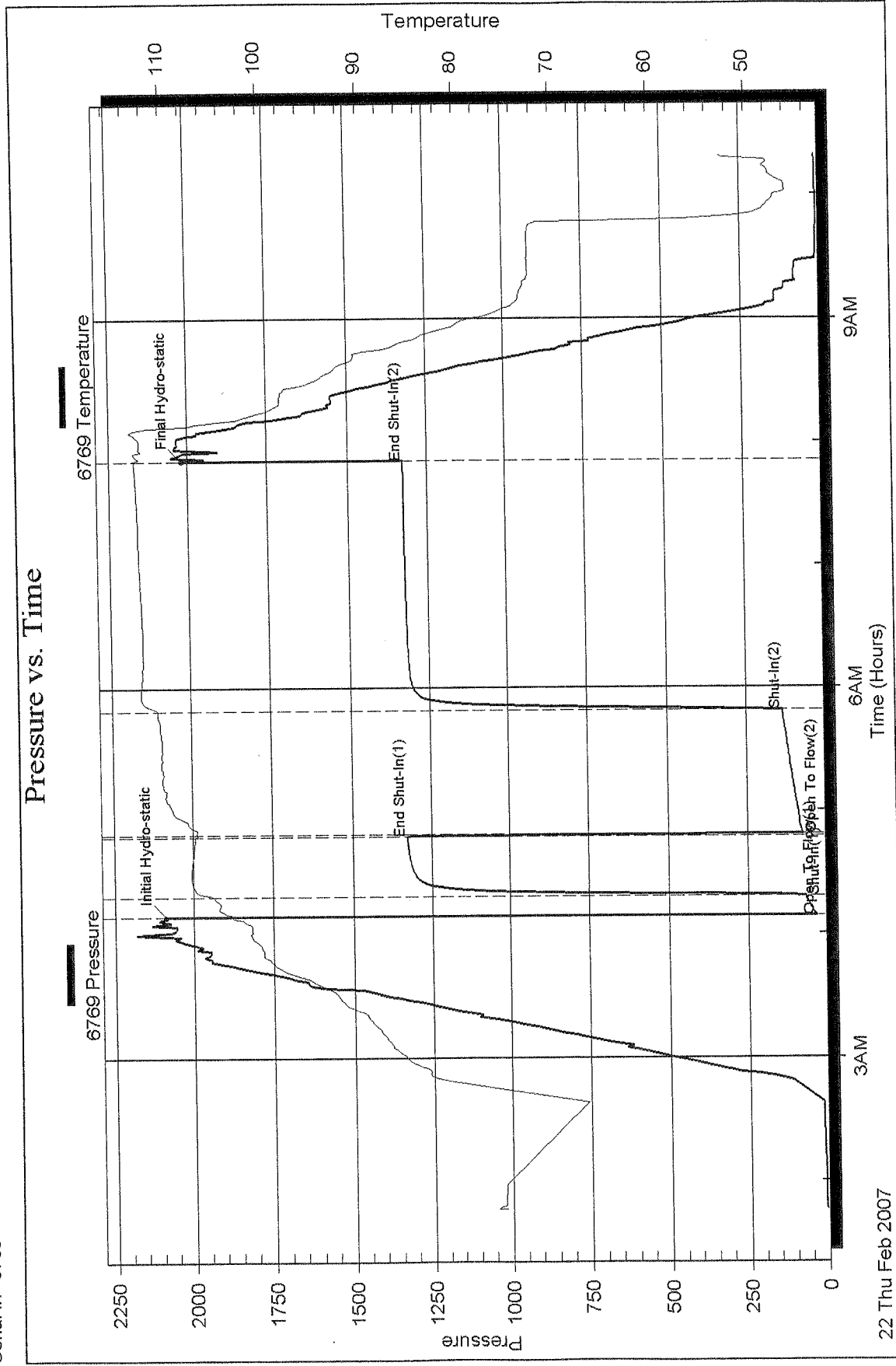
8 18 22 Ness KS

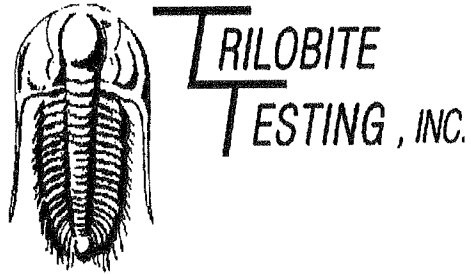
Mull Drilling CO

Inside

Serial #: 6769

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling CO**

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

8 18 22 Ness KS

Sekavec # 1-8

Start Date: 2007.02.22 @ 17:25:18

End Date: 2007.02.23 @ 01:45:03

Job Ticket #: 28227 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 CO

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Sekavec # 1-8

8 18 22 Ness KS

Job Ticket: 28227

DST#: 2

Test Start: 2007.02.22 @ 17:25:18

GENERAL INFORMATION:

Formation: **Cher Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:15:48

Time Test Ended: 01:45:03

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 24

Interval: **4187.00 ft (KB) To 4258.00 ft (KB) (TVD)**

Reference Elevations: 2231.00 ft (KB)

Total Depth: 4258.00 ft (KB) (TVD)

2226.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 200.65 psig @ 4191.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.02.22

End Date:

2007.02.23

Last Calib.: 2007.02.23

Start Time: 17:25:20

End Time:

01:45:03

Time On Btm: 2007.02.22 @ 19:15:18

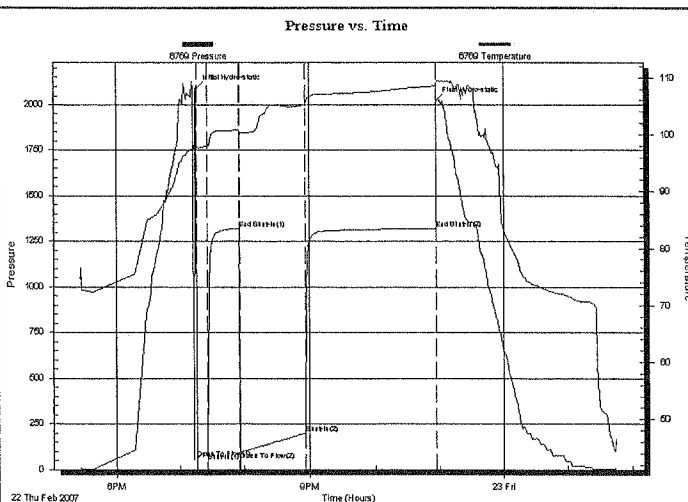
Time Off Btm: 2007.02.22 @ 22:56:33

TEST COMMENT: IF Built to 6 "

ISI Dead

FF B of B 20 M

FSI Surface blow back died 20 M



PRESSURE SUMMARY

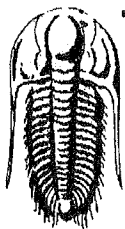
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.88	99.11	Initial Hydro-static
1	63.31	98.17	Open To Flow (1)
11	95.93	97.99	Shut-In (1)
40	1322.64	100.79	End Shut-In (1)
41	97.87	100.36	Open To Flow (2)
101	200.65	105.22	Shut-In (2)
221	1320.46	108.61	End Shut-In (2)
222	2022.99	108.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	SGMcutO 5%G 10%M 85%O	2.03
200.00	SGM&O 5%G 40%M 55%O	2.81
0.00	120 GIP	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 CO

PO Box 2758
Wichita KS 67201

ATTN: Phil Askey

Sekavec # 1-8

8 18 22 Ness KS

Job Ticket: 28227

DST#: 2

Test Start: 2007.02.22 @ 17:25:18

Tool Information

Drill Pipe:	Length: 4053.00 ft	Diameter: 3.80 inches	Volume: 56.85 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	57.46 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4187.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.02 ft				
Tool Length:	96.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4167.00	
Hydraulic tool	5.00			4172.00	
Jars	5.00			4177.00	
Packer	5.00			4182.00	25.00 Bottom Of Top Packer
Packer	5.00			4187.00	
Stubb	1.00			4188.00	
Perforations	2.00			4190.00	
Change Over Sub	1.00			4191.00	
Recorder	0.01	6769	Inside	4191.01	
Blank Spacing	62.00			4253.01	
Change Over Sub	1.00			4254.01	
Perforations	1.00			4255.01	
Recorder	0.01	13548	Outside	4255.02	
Bullnose	3.00			4258.02	71.02 Bottom Packers & Anchor

Total Tool Length: 96.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Sekavec # 1-8

PO Box 2758
Wichita KS 67201

8 18 22 Ness KS

Job Ticket: 28227

DST#: 2

ATTN: Phil Askey

Test Start: 2007.02.22 @ 17:25:18

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: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
225.00	SGMcutO 5%G 10%M 85%O	2.027
200.00	SGM&O 5%G 40%M 55%O	2.805
0.00	120 GIP	0.000

Total Length: 425.00 ft

Total Volume: 4.832 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

