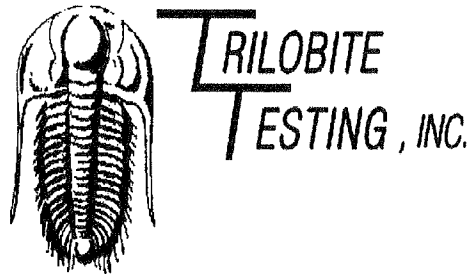


15-051-25767

Moore Farm 1

4-15s-19w



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

*all
my
7/15/08*

1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

4 15S 19W Ellis KS

More Farm # 1

Start Date: 2008.04.22 @ 14:54:23

End Date: 2008.04.22 @ 21:10:53

Job Ticket #: 30384

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

More Farm # 1

4 15S 19W Ellis KS

Job Ticket: 30384

DST#: 1

Test Start: 2008.04.22 @ 14:54:23

GENERAL INFORMATION:

Formation: **L.Kc.-C to F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:49:53

Time Test Ended: 21:10:53

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3386.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Total Depth: 3470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2075.00 ft (KB)

2070.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8369** Inside

Press@RunDepth: 76.21 psig @ 3390.00 ft (KB)

Start Date: 2008.04.22

End Date: 2008.04.22

Start Time: 14:54:28

End Time: 21:10:52

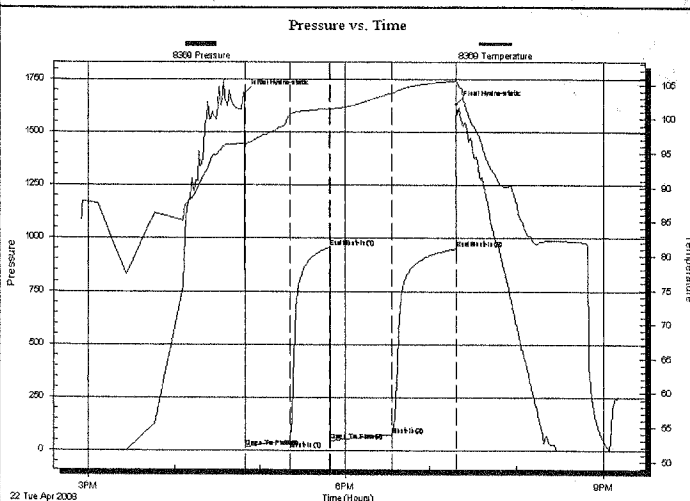
Capacity: 7000.00 psig

Last Calib.: 2008.04.22

Time On Btm: 2008.04.22 @ 16:49:23

Time Off Btm: 2008.04.22 @ 19:18:53

TEST COMMENT: IF Weak to fair built to 6 "
ISI Dead
FF Weak to fair built to 7 "
FSI Dead



PRESSURE SUMMARY

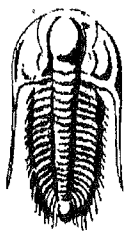
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.65	96.47	Initial Hydro-static
1	16.65	96.07	Open To Flow (1)
32	47.58	100.58	Shut-In(1)
60	956.57	101.53	End Shut-In(1)
61	48.01	101.42	Open To Flow(2)
104	76.21	103.77	Shut-In(2)
149	950.03	105.56	End Shut-In(2)
150	1629.65	105.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
136.00	MSWw/Oscum on top	1.91

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc

1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

More Farm # 1

4 15S 19W Ellis KS

Job Ticket: 30384

DST#: 1

Test Start: 2008.04.22 @ 14:54:23

Tool Information

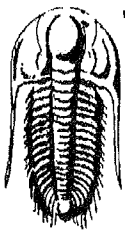
Drill Pipe:	Length: 3370.00 ft	Diameter: 3.80 inches	Volume: 47.27 bbl	Tool Weight:	2200.00 lb		
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb		
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb		
			Total Volume:	47.27 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	38000.00 lb	Final	39000.00 lb
Depth to Top Packer:	3386.00 ft						
Depth to Bottom Packer:	ft						
Interval between Packers:	84.00 ft						
Tool Length:	104.00 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			3367.00	
Shut In Tool	5.00			3372.00	
Hydraulic tool	5.00			3377.00	
Packer	4.00			3381.00	20.00 Bottom Of Top Packer
Packer	5.00			3386.00	
Stubb	1.00			3387.00	
Perforations	2.00			3389.00	
Change Over Sub	1.00			3390.00	
Recorder	0.00	8369	Inside	3390.00	
Recorder	0.00	6669	Outside	3390.00	
Blank Spacing	63.00			3453.00	
Change Over Sub	1.00			3454.00	
Perforations	13.00			3467.00	
Bullnose	3.00			3470.00	84.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

More Farm # 1
4 15S 19W Ellis KS
Job Ticket: 30384 DST#: 1
Test Start: 2008.04.22 @ 14:54:23

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

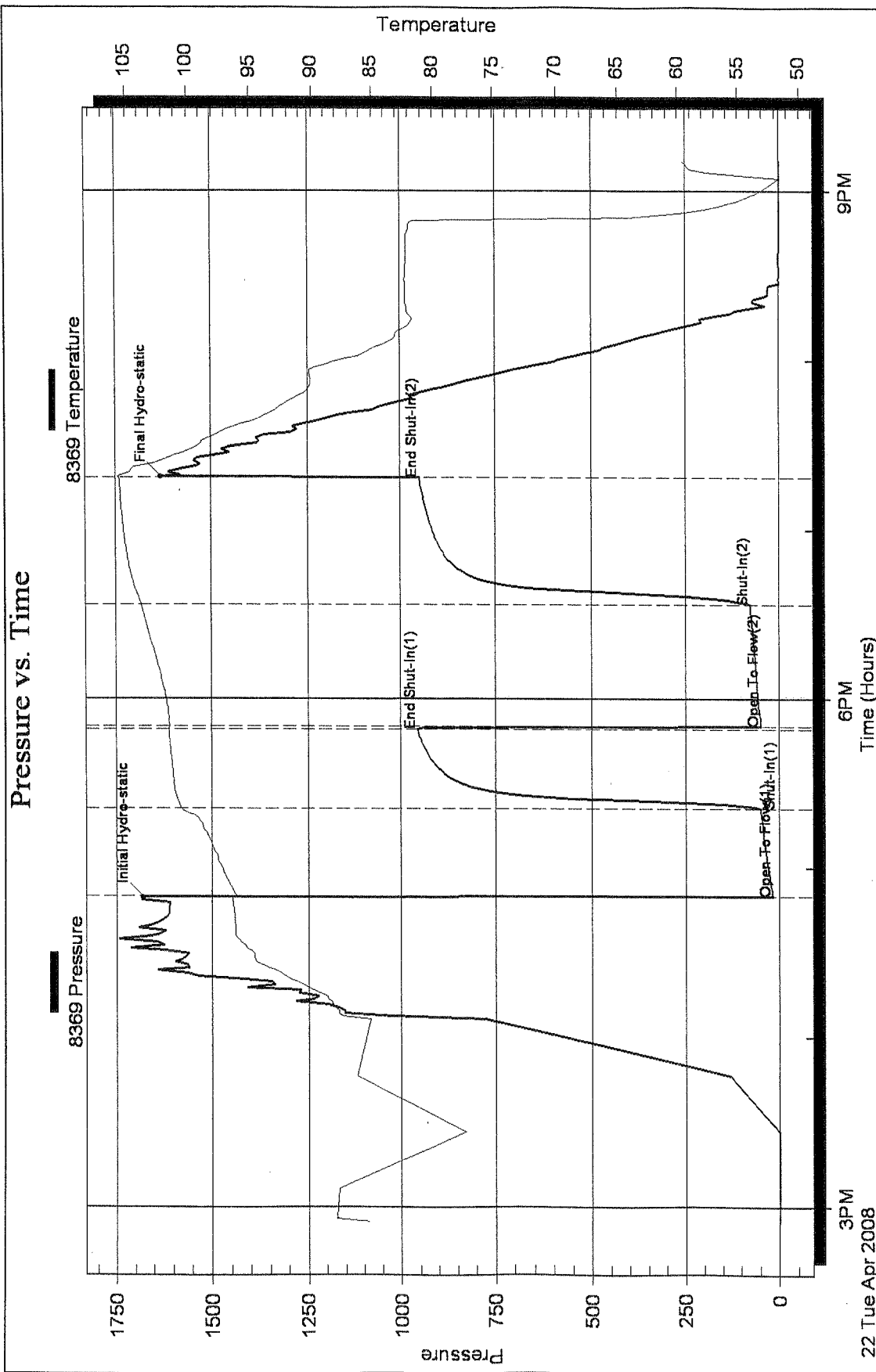
Recovery Information

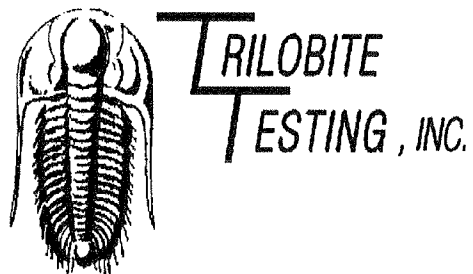
Recovery Table

Length ft	Description	Volume bbl
136.00	MSWw/Oscum on top	1.908

Total Length: 136.00 ft Total Volume: 1.908 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: **TDI Inc**

1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

4 15S 19W Ellis KS

More Farm # 1

Start Date: 2008.04.23 @ 17:49:52

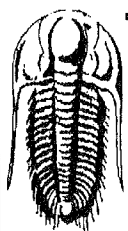
End Date: 2008.04.23 @ 23:38:22

Job Ticket #: 30385 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDL Inc
1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

More Farm # 1

4 15S 19W Ellis KS

Job Ticket: 30385

DST#: 2

Test Start: 2008.04.23 @ 17:49:52

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:21:52

Time Test Ended: 23:38:22

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3605.00 ft (KB) To 3701.00 ft (KB) (TVD)**

Total Depth: 3701.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2075.00 ft (KB)

2070.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8369

Inside

Press@RunDepth: 127.05 psig @ 3609.00 ft (KB)

Start Date: 2008.04.23

End Date:

2008.04.23

Capacity: 7000.00 psig

Last Calib.: 2008.04.23

Start Time: 17:49:57

End Time:

23:38:21

Time On Btm: 2008.04.23 @ 19:20:52

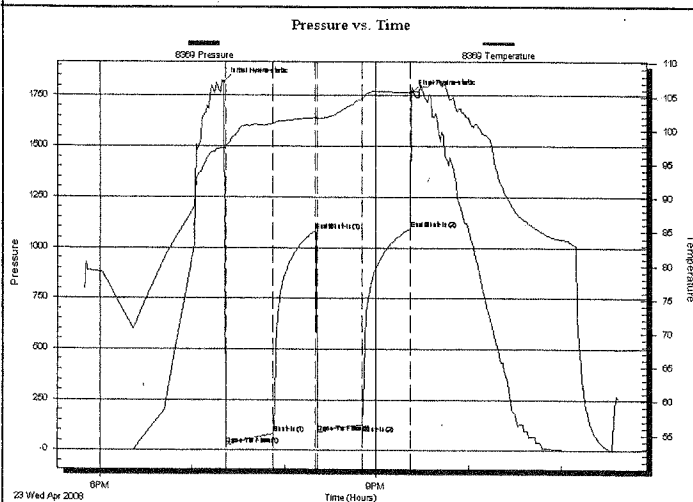
Time Off Btm: 2008.04.23 @ 21:22:52

TEST COMMENT: IF Strong BOB in 14 min.

ISI Weak Surface

FF Strong BOB in 18 min.

FSI Weak Surface



PRESSURE SUMMARY

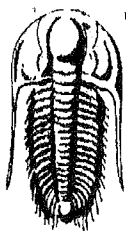
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.02	97.46	Initial Hydro-static
1	23.22	97.33	Open To Flow (1)
32	81.26	101.02	Shut-In (1)
60	1082.19	101.92	End Shut-In (1)
61	86.40	101.67	Open To Flow (2)
91	127.05	104.68	Shut-In (2)
122	1092.24	105.60	End Shut-In (2)
122	1760.10	105.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	MCO 40%M 60%O	3.53
20.00	Clean O	0.28

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc

1310 Bison Rd
Hays KS 67501+9696

ATTN: Tom Denning

More Farm # 1

4 15S 19W Ellis KS

Job Ticket: 30385

DST#: 2

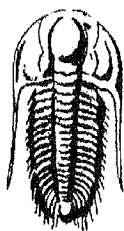
Test Start: 2008.04.23 @ 17:49:52

Tool Information

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 bbl	Tool Weight:	2200.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb	
			Total Volume:	50.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	40000.00 lb	
Depth to Top Packer:	3605.00 ft			Final	42000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	96.00 ft					
Tool Length:	116.00 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			3586.00	
Shut In Tool	5.00			3591.00	
Hydraulic tool	5.00			3596.00	
Packer	4.00			3600.00	20.00 Bottom Of Top Packer
Packer	5.00			3605.00	
Stubb	1.00			3606.00	
Perforations	2.00			3608.00	
Change Over Sub	1.00			3609.00	
Recorder	0.00	8369	Inside	3609.00	
Recorder	0.00	6669	Outside	3609.00	
Blank Spacing	63.00			3672.00	
Change Over Sub	1.00			3673.00	
Perforations	25.00			3698.00	
Bullnose	3.00			3701.00	96.00 Bottom Packers & Anchor
Total Tool Length:		116.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67501+9696
ATTN: Tom Denning

More Farm # 1
4 15S 19W Ellis KS
Job Ticket: 30385 DST#: 2
Test Start: 2008.04.23 @ 17:49:52

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 9.19 in³
Resistivity: ohm.m
Salinity: ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: 33 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	MCO 40%M 60%O	3.535
20.00	Clean O	0.281

Total Length: 272.00 ft Total Volume: 3.816 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

