



## DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd.  
Hays, KS 67601

ATTN: Herb Dienes

### **Bieker #2**

### **24-15s-19w Ellis,KS**

Start Date: 2012.07.16 @ 01:15:30

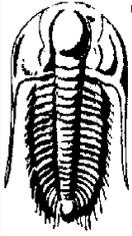
End Date: 2012.07.16 @ 07:58:00

Job Ticket #: 47966                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.24 @ 10:16:21

TDI Inc. 24-15s-19w Ellis,KS Bieker #2 DST # 1 LKC "H,I,&J" 2012.07.16



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

TDI Inc.  
1310 Bison Rd.  
Hays, KS 67601  
ATTN: Herb Dienes

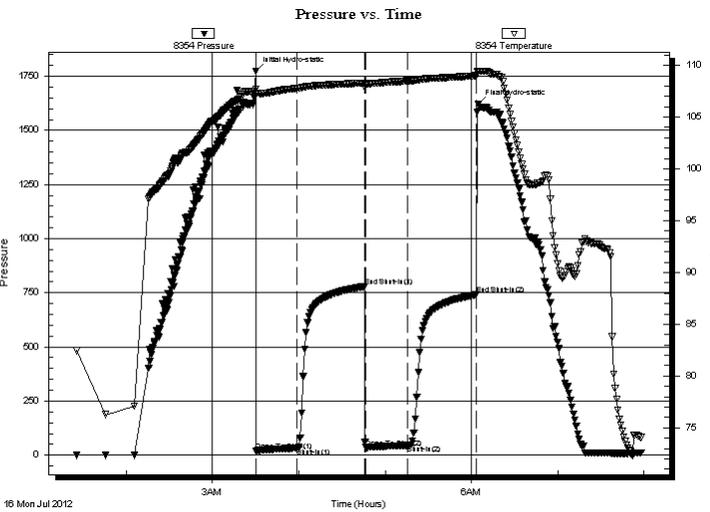
**24-15s-19w Ellis, KS**  
**Bieker #2**  
Job Ticket: 47966 **DST#: 1**  
Test Start: 2012.07.16 @ 01:15:30

## GENERAL INFORMATION:

Formation: **LKC "H,I,&J"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:30:30  
Time Test Ended: 07:58:00  
Interval: **3386.00 ft (KB) To 3475.00 ft (KB) (TVD)**  
Total Depth: 3475.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Rash  
Unit No: 38  
Reference Elevations: 1989.00 ft (KB)  
1980.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8354 Inside**  
Press @ RunDepth: 45.50 psig @ 3457.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.07.16 End Date: 2012.07.16 Last Calib.: 2012.07.16  
Start Time: 01:25:30 End Time: 07:58:00 Time On Btm: 2012.07.16 @ 03:30:00  
Time Off Btm: 2012.07.16 @ 06:05:00

**TEST COMMENT:** IF-Very weak building blow . Built to 1&1/2 inches.  
ISI-No Return.  
FF-Very weak surface blow . Built to 1/4 inch.  
FSI-No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.38	107.69	Initial Hydro-static
1	20.71	107.33	Open To Flow (1)
29	32.49	107.80	Shut-In(1)
76	778.85	108.30	End Shut-In(1)
77	35.45	108.19	Open To Flow (2)
106	45.50	108.52	Shut-In(2)
154	741.83	109.01	End Shut-In(2)
155	1619.68	109.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	100%Mud	0.70

## 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 67601  
ATTN: Herb Dienes

**24-15s-19w Ellis,KS**  
**Bieker #2**  
Job Ticket: 47966 **DST#: 1**  
Test Start: 2012.07.16 @ 01:15:30

**Tool Information**

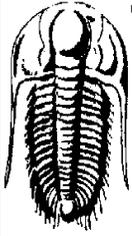
Drill Pipe:	Length: 3393.00 ft	Diameter: 3.80 inches	Volume: 47.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 47.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3386.00 ft			Final 32000.00 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:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3367.00	
Shut In Tool	5.00			3372.00	
Hydraulic tool	5.00			3377.00	
Packer	5.00			3382.00	20.00 Bottom Of Top Packer
Packer	4.00			3386.00	
Stubb	1.00			3387.00	
Perforations	5.00			3392.00	
Change Over Sub	1.00			3393.00	
Drill Pipe	63.00			3456.00	
Change Over Sub	1.00			3457.00	
Recorder	0.00	8354	Inside	3457.00	
Recorder	0.00	8520	Outside	3457.00	
Perforations	15.00			3472.00	
Bullnose	3.00			3475.00	89.00 Bottom Packers & Anchor

**Total Tool Length: 109.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc. **24-15s-19w Ellis,KS**  
 1310 Bison Rd. **Bieker #2**  
 Hays, KS 67601 Job Ticket: 47966 **DST#: 1**  
 ATTN: Herb Dienes Test Start: 2012.07.16 @ 01:15:30

## Mud and Cushion Information

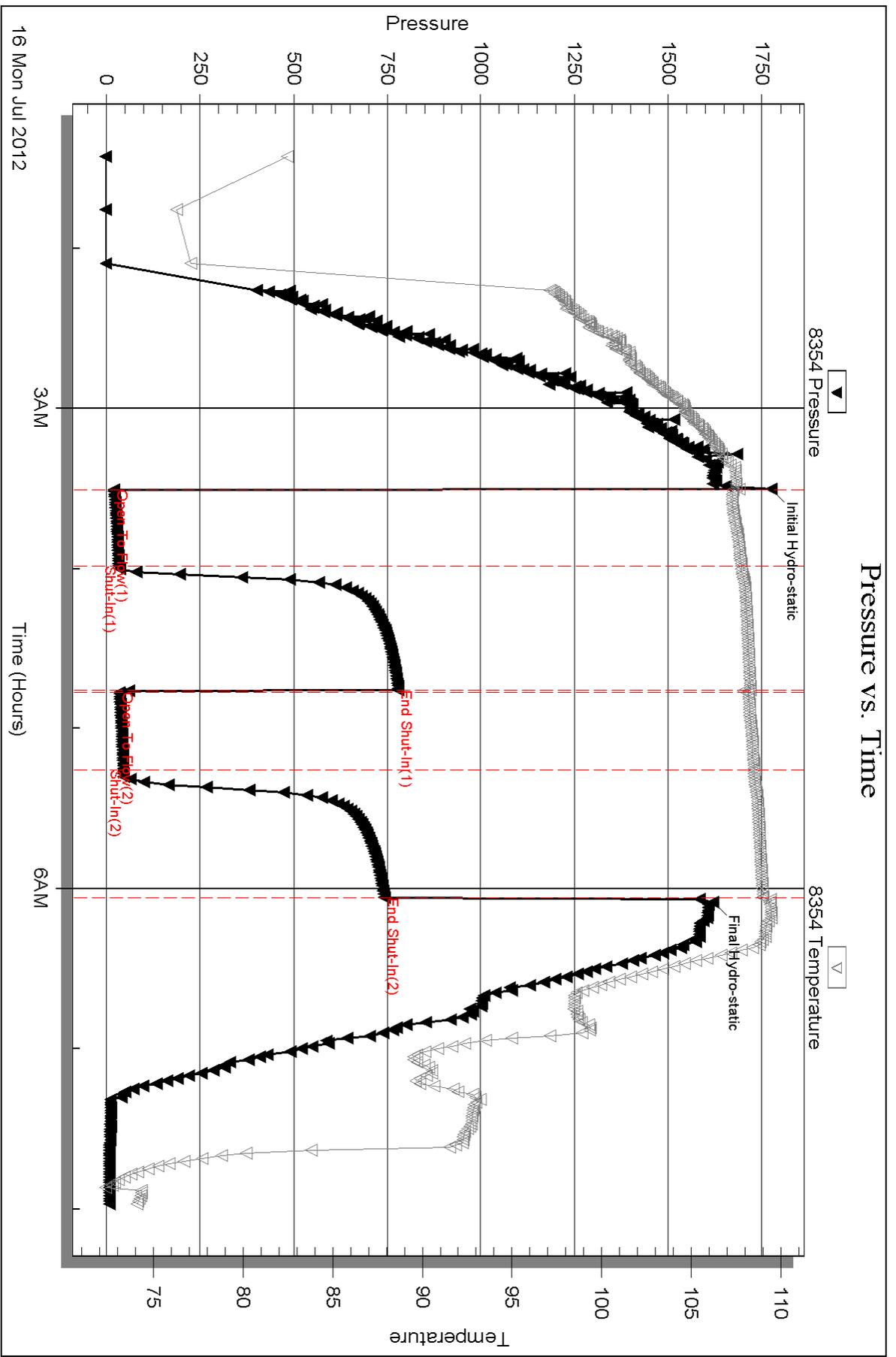
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

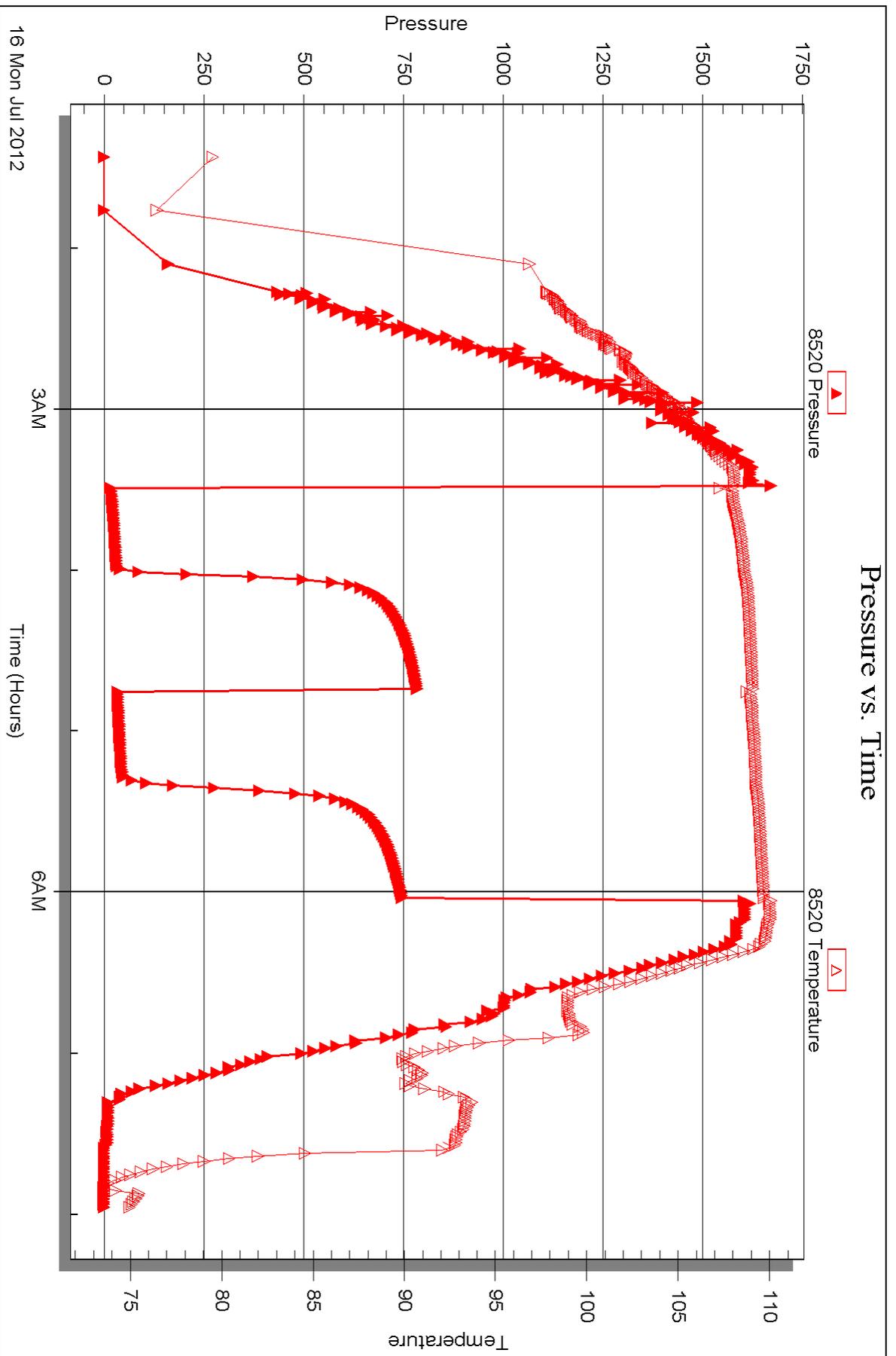
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	100%Mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl  
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:  
 Laboratory Name: Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd.  
Hays, KS 67601

ATTN: Herb Dienes

### **Bieker #2**

### **24-15s-19w Ellis,KS**

Start Date: 2012.07.16 @ 19:10:30

End Date: 2012.07.17 @ 01:06:00

Job Ticket #: 47967                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.24 @ 10:14:39



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

TDI Inc.  
1310 Bison Rd.  
Hays, KS 67601  
ATTN: Herb Dienes

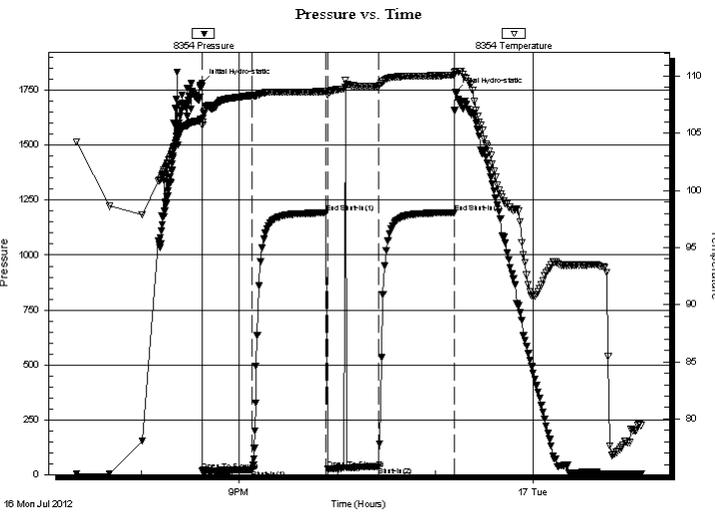
**24-15s-19w Ellis, KS**  
**Bieker #2**  
Job Ticket: 47967 **DST#: 2**  
Test Start: 2012.07.16 @ 19:10:30

## GENERAL INFORMATION:

Formation: **Cong. Sand**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:37:30  
Time Test Ended: 01:06:00  
Interval: **3575.00 ft (KB) To 3592.00 ft (KB) (TVD)**  
Total Depth: 3592.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Rash  
Unit No: 38  
Reference Elevations: 1989.00 ft (KB)  
1980.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8354 Inside**  
Press @ Run Depth: 36.80 psig @ 3577.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.07.16 End Date: 2012.07.17 Last Calib.: 2012.07.17  
Start Time: 19:20:30 End Time: 01:06:00 Time On Btm: 2012.07.16 @ 20:37:20  
Time Off Btm: 2012.07.16 @ 23:12:30

**TEST COMMENT:** IF-Very weak building blow . Built to 2 inches.  
IS-No Return.  
FF-No Blow . Flushed tool. Very weak building blow . Built to 1 inches.  
FSI-No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.94	106.27	Initial Hydro-static
1	17.76	105.71	Open To Flow (1)
31	22.79	108.34	Shut-In(1)
76	1192.19	108.68	End Shut-In(1)
77	25.05	108.37	Open To Flow (2)
108	36.80	109.14	Shut-In(2)
155	1193.34	110.10	End Shut-In(2)
156	1742.03	110.46	Final Hydro-static

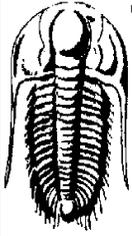
## Recovery

Length (ft)	Description	Volume (bbl)
20.00	30%Oil/70%Mud	0.28
47.00	60%Gas/40%Oil	0.66

## 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 67601  
ATTN: Herb Dienes

**24-15s-19w Ellis,KS**  
**Bieker #2**  
Job Ticket: 47967      **DST#: 2**  
Test Start: 2012.07.16 @ 19:10:30

**Tool Information**

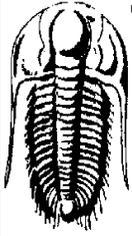
Drill Pipe:	Length: 3579.00 ft	Diameter: 3.80 inches	Volume: 50.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 50.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3575.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3556.00	
Shut In Tool	5.00			3561.00	
Hydraulic tool	5.00			3566.00	
Packer	5.00			3571.00	20.00      Bottom Of Top Packer
Packer	4.00			3575.00	
Stubb	1.00			3576.00	
Perforations	1.00			3577.00	
Recorder	0.00	8354	Inside	3577.00	
Recorder	0.00	8520	Outside	3577.00	
Perforations	12.00			3589.00	
Bullnose	3.00			3592.00	17.00      Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc. **24-15s-19w Ellis,KS**  
 1310 Bison Rd. **Bieker #2**  
 Hays, KS 67601 Job Ticket: 47967 **DST#: 2**  
 ATTN: Herb Dienes Test Start: 2012.07.16 @ 19:10:30

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2100.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	30%Oil/70%Mud	0.281
47.00	60%Gas/40%Oil	0.659

Total Length: 67.00 ft Total Volume: 0.940 bbl  
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:  
 Laboratory Name: Laboratory Location:  
 Recovery Comments:

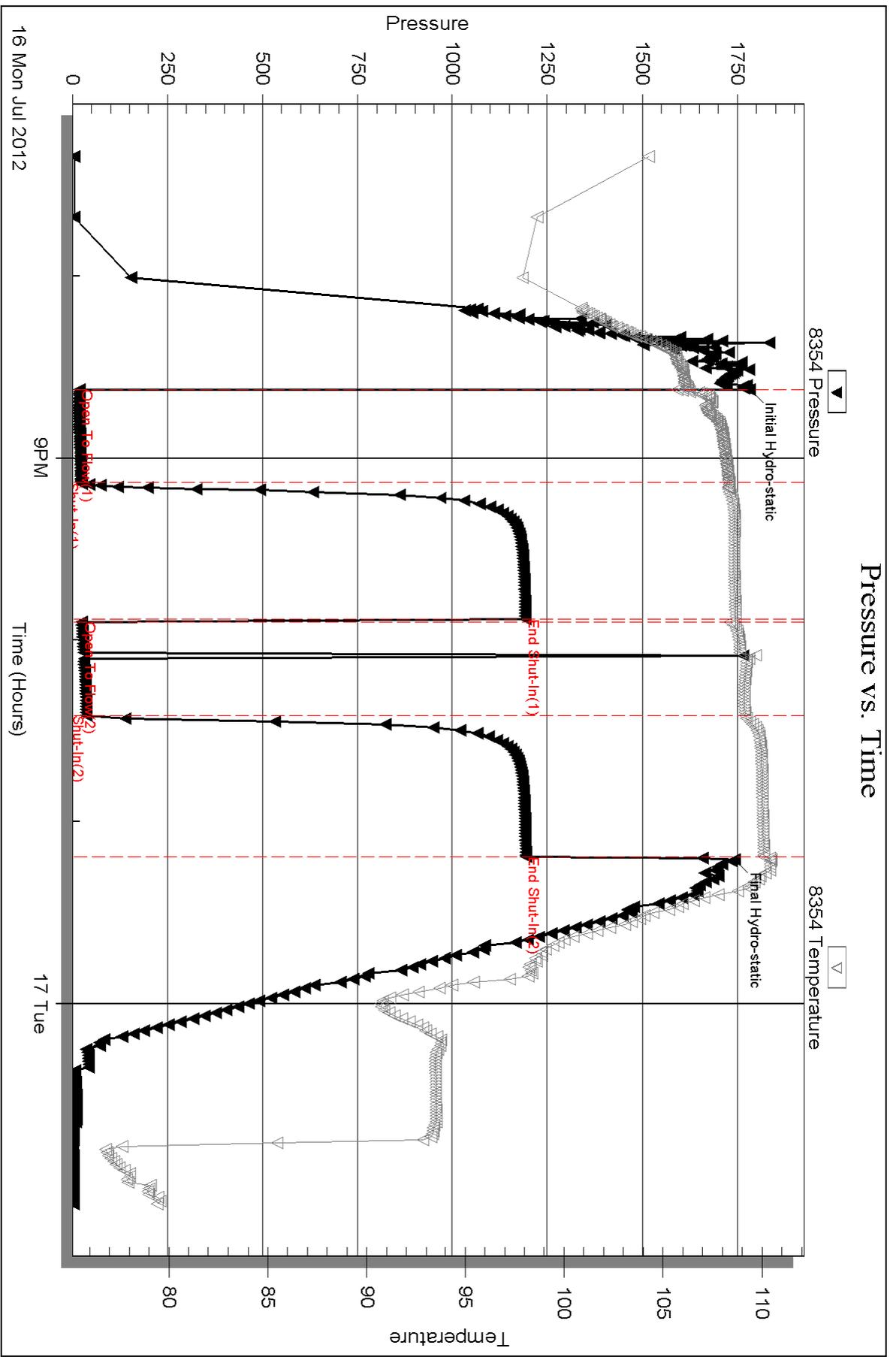
Serial #: 8354

Inside

TDI Inc.

Bleker #2

DST Test Number: 2

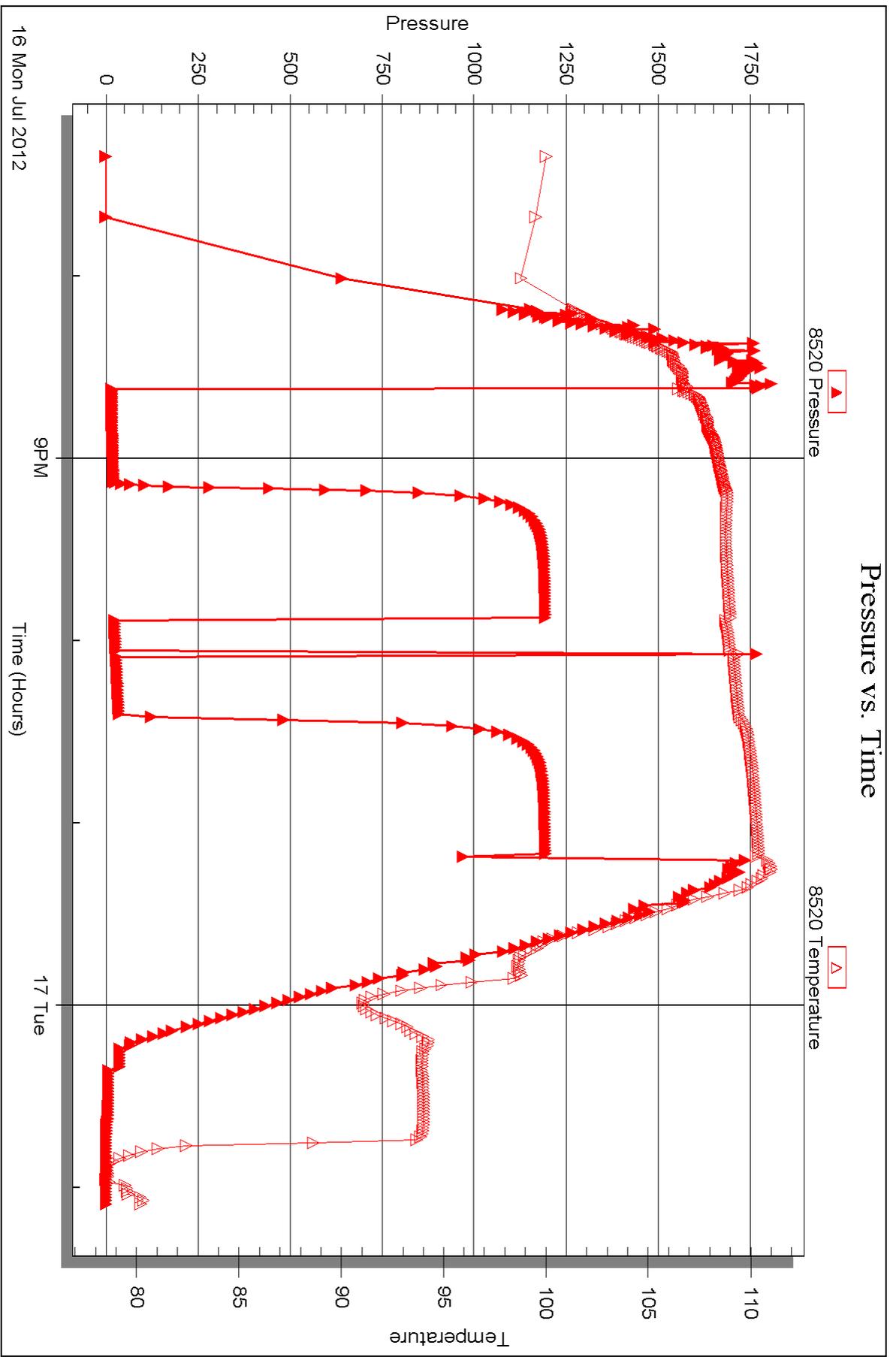


Serial #: 8520

Outside TDI Inc.

Beker #2

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd.  
Hays, KS 67601

ATTN: Herb Dienes

### **Bieker #2**

### **24-15s-19w Ellis,KS**

Start Date: 2012.07.17 @ 18:04:15

End Date: 2012.07.17 @ 21:55:15

Job Ticket #: 47968                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.24 @ 10:13:51

TDI Inc. 24-15s-19w Ellis,KS Bieker #2 DST # 3 LKC "C" 2012.07.17









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI Inc.  
1310 Bison Rd.  
Hays, KS 67601  
ATTN: Herb Dienes

**24-15s-19w Ellis,KS**  
**Bieker #2**  
Job Ticket: 47968      **DST#: 3**  
Test Start: 2012.07.17 @ 18:04:15

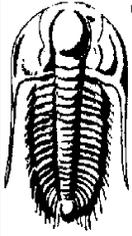
**Tool Information**

Drill Pipe:	Length: 3274.00 ft	Diameter: 3.80 inches	Volume: 45.93 bbl	Tool Weight: 2500.00 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: 5000.00 lb
			<u>Total Volume: 45.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3284.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	467.00 ft			
Tool Length:	487.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3265.00	
Shut In Tool	5.00			3270.00	
Hydraulic tool	5.00			3275.00	
Packer	5.00			3280.00	20.00      Bottom Of Top Packer
Packer	4.00			3284.00	
Stubb	1.00			3285.00	
Recorder	0.00	8354	Inside	3285.00	
Recorder	0.00	8520	Outside	3285.00	
Perforations	20.00			3305.00	
Blank Off Sub	1.00			3306.00	467.00      Tool Interval
Packer	4.00			3310.00	
Stubb	1.00			3311.00	
Change Over Sub	1.00			3312.00	
Recorder	0.00	8653	Below	3312.00	
Drill Pipe	345.00			3747.00	
Change Over Sub	1.00			3748.00	
Bullnose	3.00			3751.00	1000486.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>487.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc.

**24-15s-19w Ellis,KS**

1310 Bison Rd.  
Hays, KS 67601

**Bieker #2**

Job Ticket: 47968

**DST#: 3**

ATTN: Herb Dienes

Test Start: 2012.07.17 @ 18:04:15

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

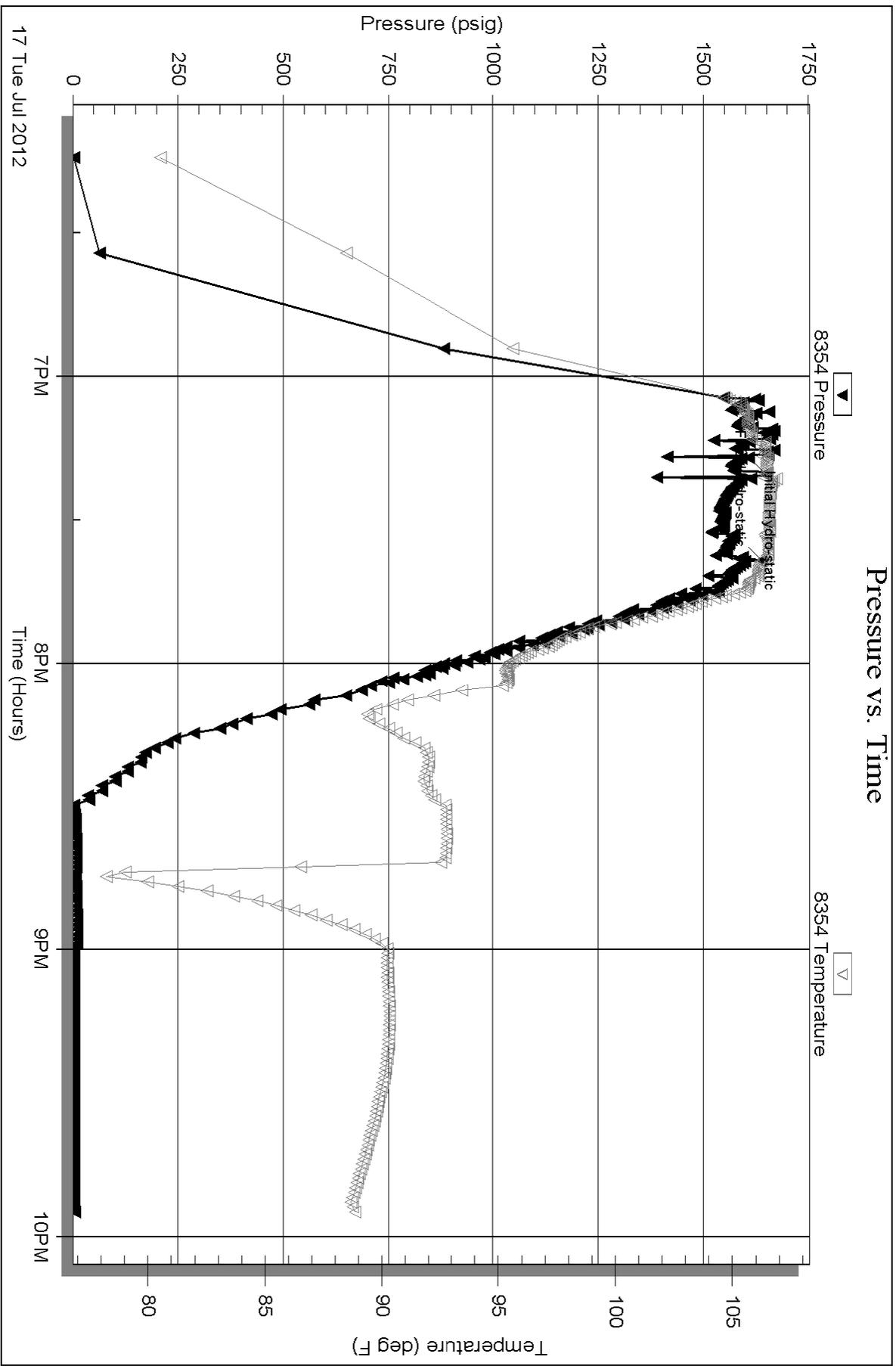
Serial #: 8354

Inside

TDI Inc.

Bleker #2

DST Test Number: 3

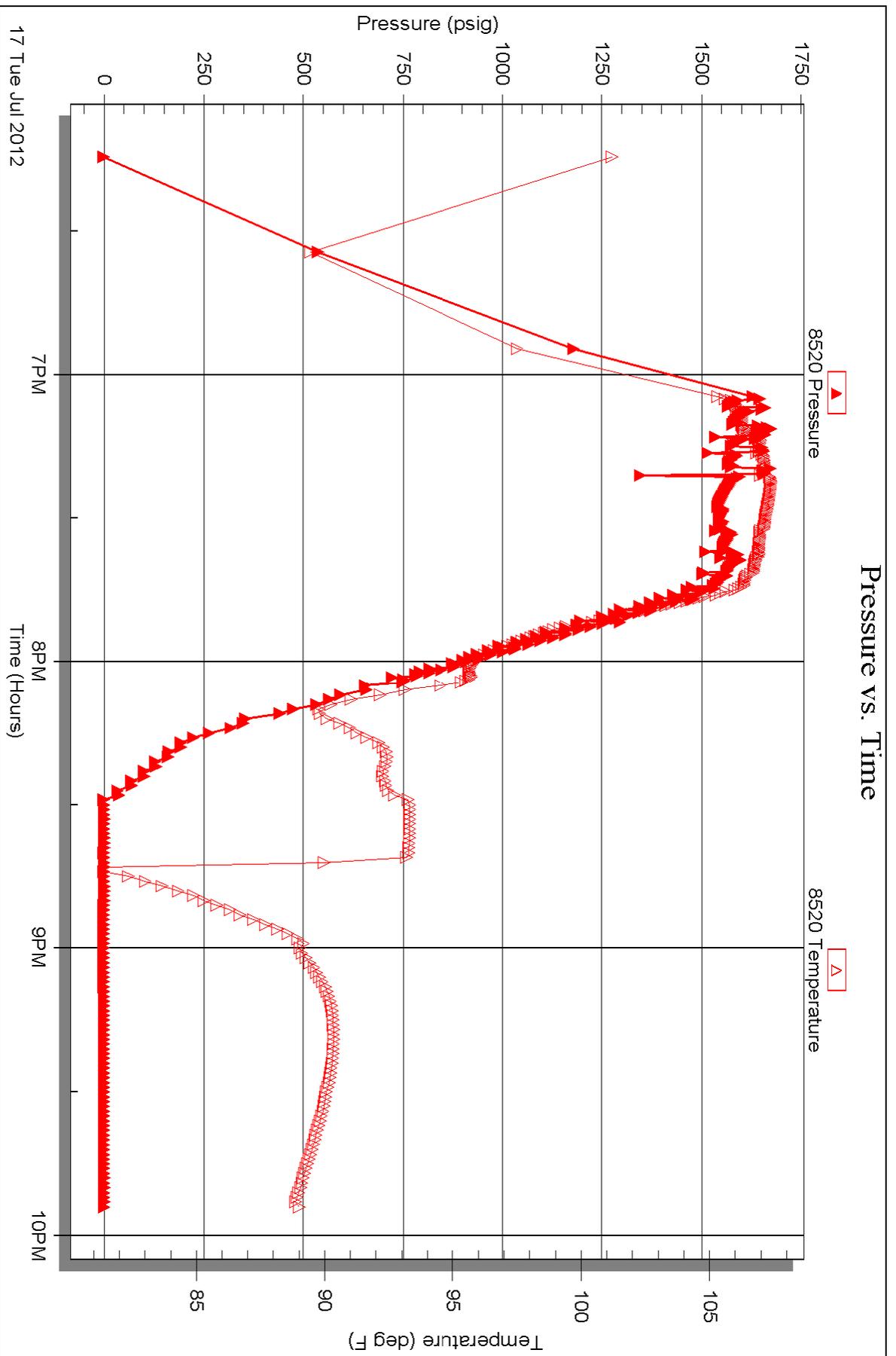


Serial #: 8520

Outside TDI Inc.

Bleker #2

DST Test Number: 3

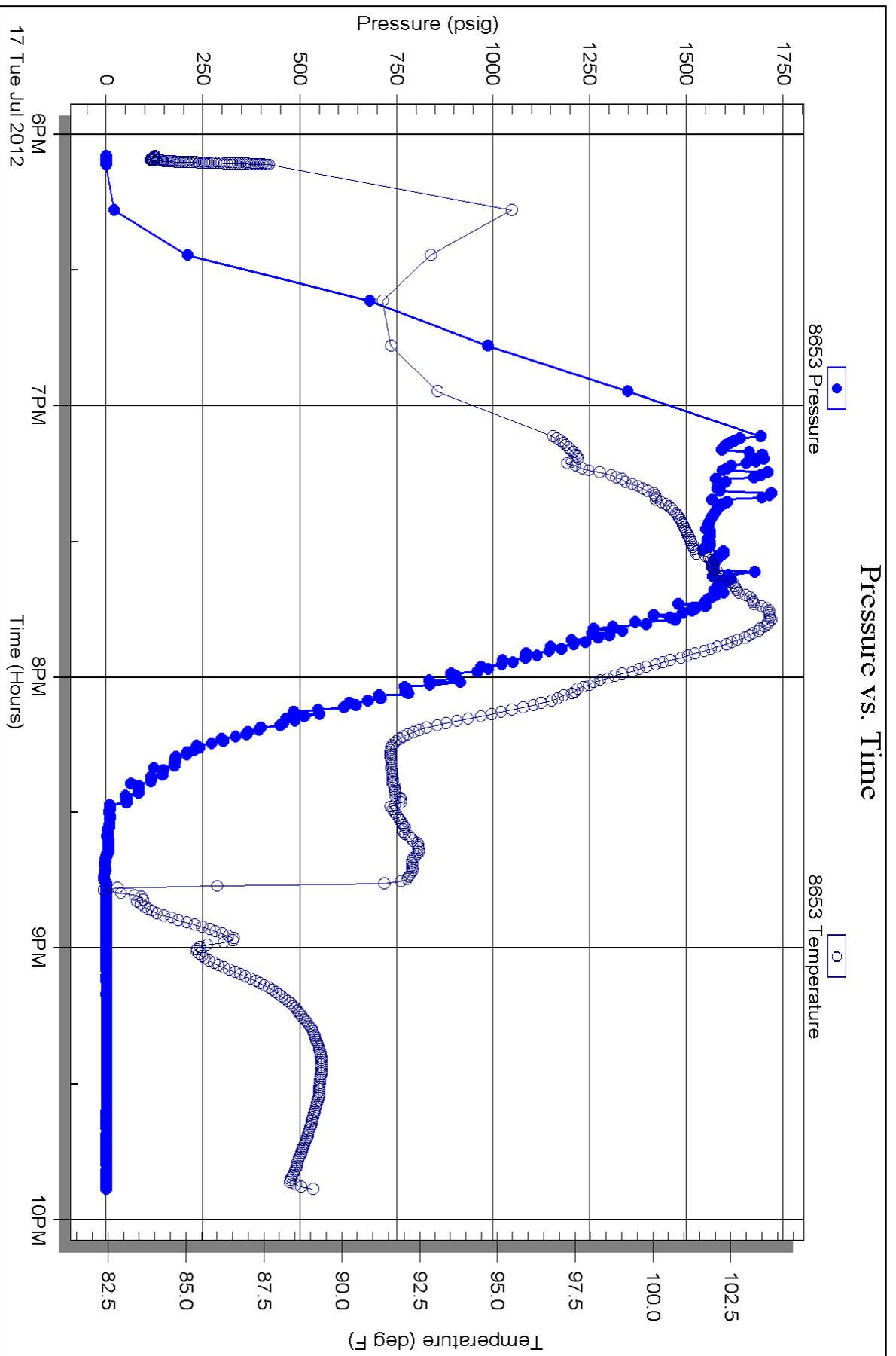


Serial #: 8653

Below (Straddling)

Bleker #2

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47966

Well Name & No. Bieber #2 Test No. 2 Date 7-16-12  
 Company TOT, Inc. Elevation 1989 KB 1980 GL  
 Address 1310 Bison Rd. Hays, KS 67601  
 Co. Rep / Geo. Herb Dienes Rig Southward 1  
 Location: Sec. 24 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3386-3475 Zone Tested LKC "H,I,J"  
 Anchor Length 89' Drill Pipe Run 3393 Mud Wt. 8.7  
 Top Packer Depth 3381 Drill Collars Run 0 Vis 44  
 Bottom Packer Depth 3386 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3475 Chlorides 2100 ppm System LCM 1#

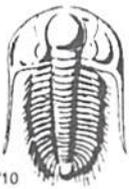
Blow Description IF - Very weak building blow, Built to 1 1/2 inches,  
ISI - No Return,  
FF - Very weak surface blow, Built to 1/4 inch,  
FBI - No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1774  Test 1150 T-On Location 0015  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started 0130  
 (C) First Final Flow 32  Safety Joint \_\_\_\_\_ T-Open 0330  
 (D) Initial Shut-In 779  Circ Sub \_\_\_\_\_ T-Pulled 0605  
 (E) Second Initial Flow 35  Hourly Standby \_\_\_\_\_ T-Out 0800  
 (F) Second Final Flow 46  Mileage 14X2 43.40 Comments Bot - 0115  
 (G) Final Shut-In 742  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1620  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1193.40  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1193.40

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47967

Well Name & No. Bieker #2 Test No. 2 Date 7-16-12  
 Company TAT, Inc. Elevation 1989 KB 1980 GL  
 Address 1310 Bison Rd. Hays, KS 67601  
 Co. Rep / Geo. Herb Dienes Rig Southward 1  
 Location: Sec. 24 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3575-3592 Zone Tested Cong. Sand  
 Anchor Length 17' Drill Pipe Run 3579 Mud Wt. 9.0  
 Top Packer Depth 3570 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3575 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3592 Chlorides 2100 ppm System LCM 1

Blow Description IF - Very weak building blow, Built to 2 inches, ISE - No Return.  
FF - No Blow, Flushed rod, Very weak building blow, Built to 1 inch, FSI - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>47</u>	<u>Gassy Oil</u>	<u>60</u>	<u>40</u>		
<u>20</u>	<u>HOCM</u>		<u>30</u>		<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 67 BHT 110 Gravity 39 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 Test 1150  
 Jars  
 Safety Joint  
 Circ Sub  
 Hourly Standby  
 Mileage 1482 43.40  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

(A) Initial Hydrostatic 1782  
 (B) First Initial Flow 18  
 (C) First Final Flow 23  
 (D) Initial Shut-In 1192  
 (E) Second Initial Flow 25  
 (F) Second Final Flow 37  
 (G) Final Shut-In 1193  
 (H) Final Hydrostatic 1742

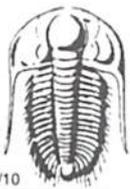
Initial Open 30  
 Initial Shut-In 4.5  
 Final Flow 30  
 Final Shut-In 4.5

T-On Location 1830  
 T-Started 1930  
 T-Open 2037  
 T-Pulled 2310  
 T-Out 0100  
 Comments Best - 1910

Sub Total 0  
 Total 1193.40

Approved By \_\_\_\_\_ Our Representative D. Rash

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47968

Well Name & No. Bieker #2 Test No. 3 Date 7-17-12  
 Company VTE, Inc. Elevation 1989 KB 1980 GL  
 Address 1310 Bison Rd. Hays, KS 67601  
 Co. Rep / Geo. Herb Dienes Rig Southwind 2  
 Location: Sec. 24 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3284-3310 Zone Tested LKC "C"  
 Anchor Length 26' Drill Pipe Run \_\_\_\_\_ Mud Wt. 92  
 Top Packer Depth 3279 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3284 SP-3310 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3750-RTD 3749-TD Chlorides 2000 ppm System LCM 2#  
 Blow Description IF- Packer Failure.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 950 T-On Location 1600  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 1815  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 2345  
 (F) Second Final Flow \_\_\_\_\_  Mileage 14X2 43.40 Comments Best-1804  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1593.40  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1593.40

Approved By \_\_\_\_\_ Our Representative D. Rash

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