

DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS 67601

ATTN: Jeff Lawler

Beiker #1

24-15s-19w Ellis,KS

Start Date: 2011.11.24 @ 08:29:46

End Date: 2011.11.24 @ 16:08:46

Job Ticket #: 44694 DST #: 1

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

Printed: 2011.11.30 @ 15:04:27

TDI Inc.
24-15s-19w Ellis,KS
Beiker #1
DST # 1
LKC B-D
2011.11.24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

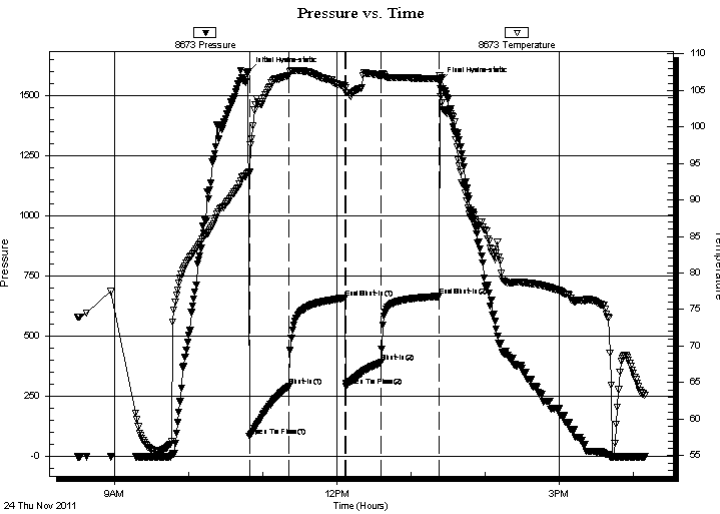
24-15s-19w Ellis, KS
Beiker #1
Job Ticket: 44694 **DST#: 1**
Test Start: 2011.11.24 @ 08:29:46

GENERAL INFORMATION:

Formation: **LKC B-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:48:46
Time Test Ended: 16:08:46
Interval: **3284.00 ft (KB) To 3240.00 ft (KB) (TVD)**
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 1988.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8673 Inside
Press @ RunDepth: 392.78 psig @ 3322.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.24 End Date: 2011.11.24 Last Calib.: 2011.11.24
Start Time: 08:29:48 End Time: 16:08:46 Time On Btm: 2011.11.24 @ 10:48:01
Time Off Btm: 2011.11.24 @ 13:22:46

TEST COMMENT: IFP-Strong, BOB in 2 Min.
ISI-Blow back BOB in 15 Min.
FFP-Strong, BOB in 2 Min., Gas To Surface in 25 Min.
FSI-Blow back BOB in 5 Min.



PRESSURE SUMMARY

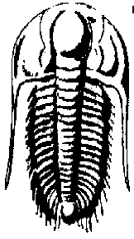
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.90	93.73	Initial Hydro-static
1	85.85	93.81	Open To Flow (1)
33	291.56	107.04	Shut-In(1)
79	660.13	105.67	End Shut-In(1)
79	293.60	104.72	Open To Flow (2)
108	392.78	107.01	Shut-In(2)
155	666.33	106.59	End Shut-In(2)
155	1557.12	107.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM-10%O-90%M	0.84
720.00	Muddy Oil-97%O-3%M	10.10
150.00	Muddy Water-95%W-5%M	2.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis,KS
Beiker #1
Job Ticket: 44694 **DST#: 1**
Test Start: 2011.11.24 @ 08:29:46

Tool Information

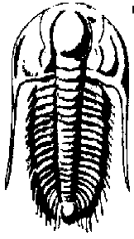
Drill Pipe:	Length: 3268.00 ft	Diameter: 3.80 inches	Volume: 45.84 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 45.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3284.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3264.00	
Shut In Tool	5.00			3269.00	
Hydraulic tool	5.00			3274.00	
Packer	5.00			3279.00	21.00 Bottom Of Top Packer
Packer	5.00			3284.00	
Stubb	1.00			3285.00	
Perforations	4.00			3289.00	
Change Over Sub	1.00			3290.00	
Blank Spacing	31.00			3321.00	
Change Over Sub	1.00			3322.00	
Recorder	0.00	8673	Inside	3322.00	
Recorder	0.00	6755	Outside	3322.00	
Perforations	15.00			3337.00	
Bullnose	3.00			3340.00	56.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.

24-15s-19w Ellis, KS

1310 Bison Road
Hays, KS 67601

Beiker #1

Job Ticket: 44694

DST#: 1

ATTN: Jeff Lawler

Test Start: 2011.11.24 @ 08:29:46

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:

46000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCM-10%O-90%M	0.842
720.00	Muddy Oil-97%O-3%M	10.100
150.00	Muddy Water-95%W-5%M	2.104

Total Length: 930.00 ft

Total Volume: 13.046 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

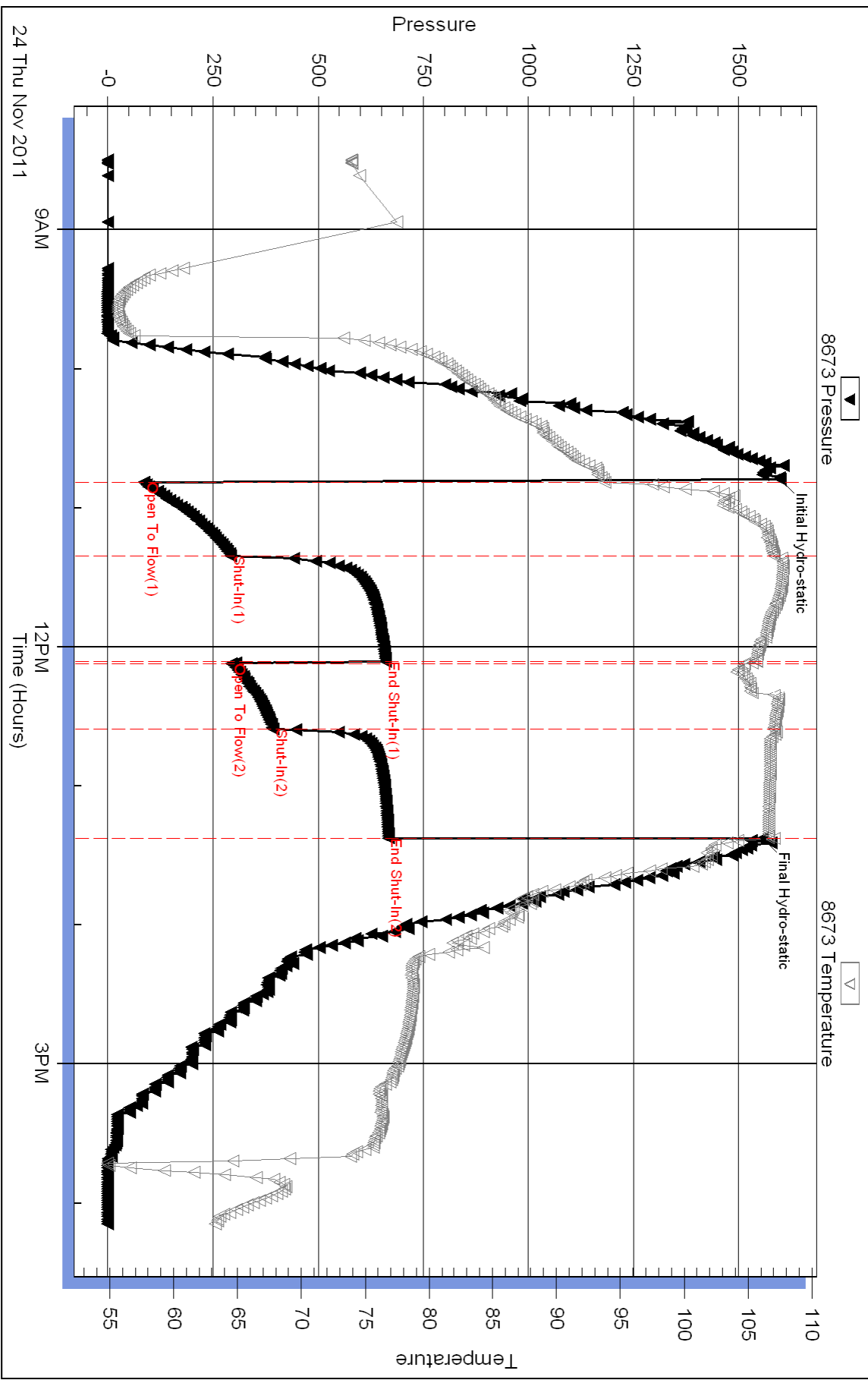
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

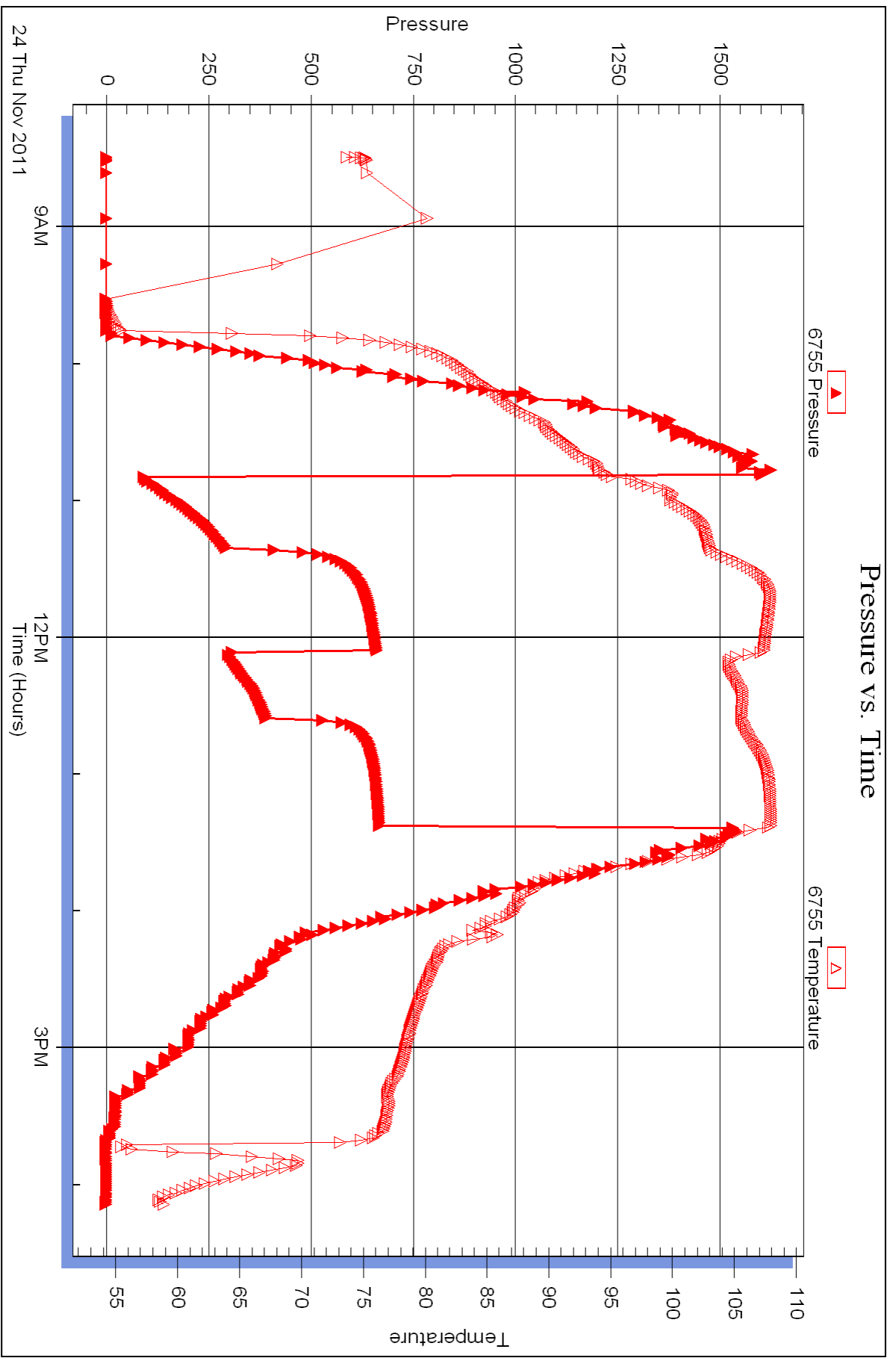


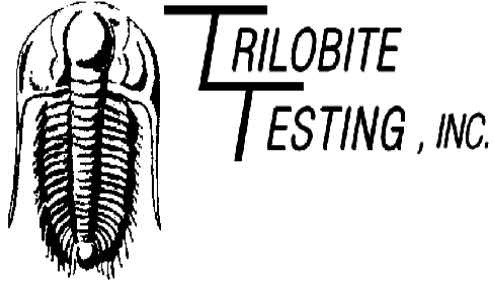
Serial #: 6755

Outside TDI Inc.

Beiker #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS 67601

ATTN: Jeff Lawler

Beiker #1

24-15s-19w Ellis,KS

Start Date: 2011.11.25 @ 02:54:32

End Date: 2011.11.25 @ 10:12:32

Job Ticket #: 44695 DST #: 2

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

Printed: 2011.11.30 @ 14:56:33

TDI Inc. 24-15s-19w Ellis,KS Beiker #1 DST # 2 LKC I-J 2011.11.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis, KS
Beiker #1
Job Ticket: 44695 **DST#: 2**
Test Start: 2011.11.25 @ 02:54:32

GENERAL INFORMATION:

Formation: **LKC I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:23:02
Time Test Ended: 10:12:32
Interval: **3428.00 ft (KB) To 3478.00 ft (KB) (TVD)**
Total Depth: 3478.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 1988.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 7.00 ft

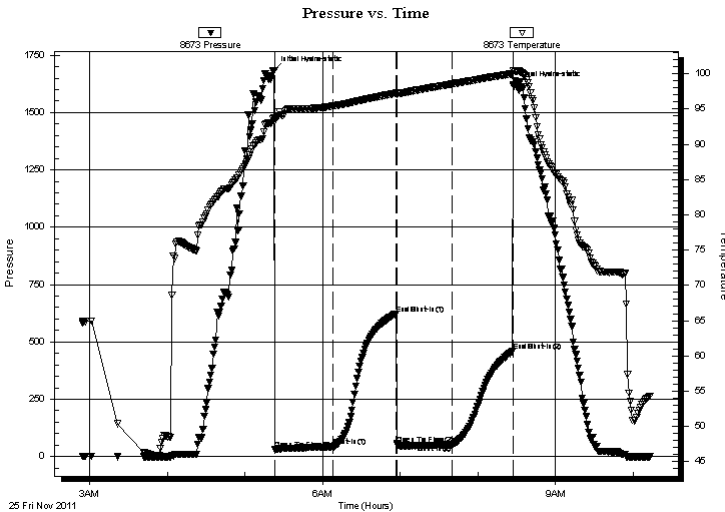
Serial #: 8673

Inside

Press @ Run Depth: 51.48 psig @ 3465.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.25 End Date: 2011.11.25 Last Calib.: 2011.11.30
Start Time: 02:54:34 End Time: 10:12:32 Time On Btm: 2011.11.25 @ 05:22:32
Time Off Btm: 2011.11.25 @ 08:27:17

TEST COMMENT: IFP-Weak Blow, Built to 4-1/2"
ISI-Dead
FFP-Weak Blow, Built to 3"
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.82	93.79	Initial Hydro-static
1	30.47	93.27	Open To Flow (1)
46	42.69	95.43	Shut-In(1)
95	623.00	97.25	End Shut-In(1)
95	55.22	97.10	Open To Flow (2)
138	51.48	98.54	Shut-In(2)
185	458.93	100.01	End Shut-In(2)
185	1619.33	100.47	Final Hydro-static

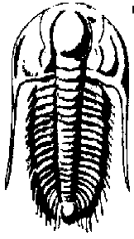
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Free Oil	0.07
45.00	Muddy Water-60%W-40%M	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis,KS
Beiker #1
Job Ticket: 44695 **DST#: 2**
Test Start: 2011.11.25 @ 02:54:32

Tool Information

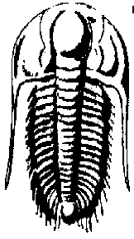
Drill Pipe:	Length: 3422.00 ft	Diameter: 3.80 inches	Volume: 48.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 48.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3428.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3408.00	
Shut In Tool	5.00			3413.00	
Hydraulic tool	5.00			3418.00	
Packer	5.00			3423.00	21.00 Bottom Of Top Packer
Packer	5.00			3428.00	
Stubb	1.00			3429.00	
Perforations	3.00			3432.00	
Change Over Sub	1.00			3433.00	
Blank Spacing	31.00			3464.00	
Change Over Sub	1.00			3465.00	
Recorder	0.00	8673	Inside	3465.00	
Recorder	0.00	6755	Outside	3465.00	
Perforations	10.00			3475.00	
Bullnose	3.00			3478.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis, KS
Beiker #1
Job Ticket: 44695 **DST#: 2**
Test Start: 2011.11.25 @ 02:54:32

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 19000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Free Oil	0.070
45.00	Muddy Water-60%W-40%M	0.631

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:

Serial #: 8673

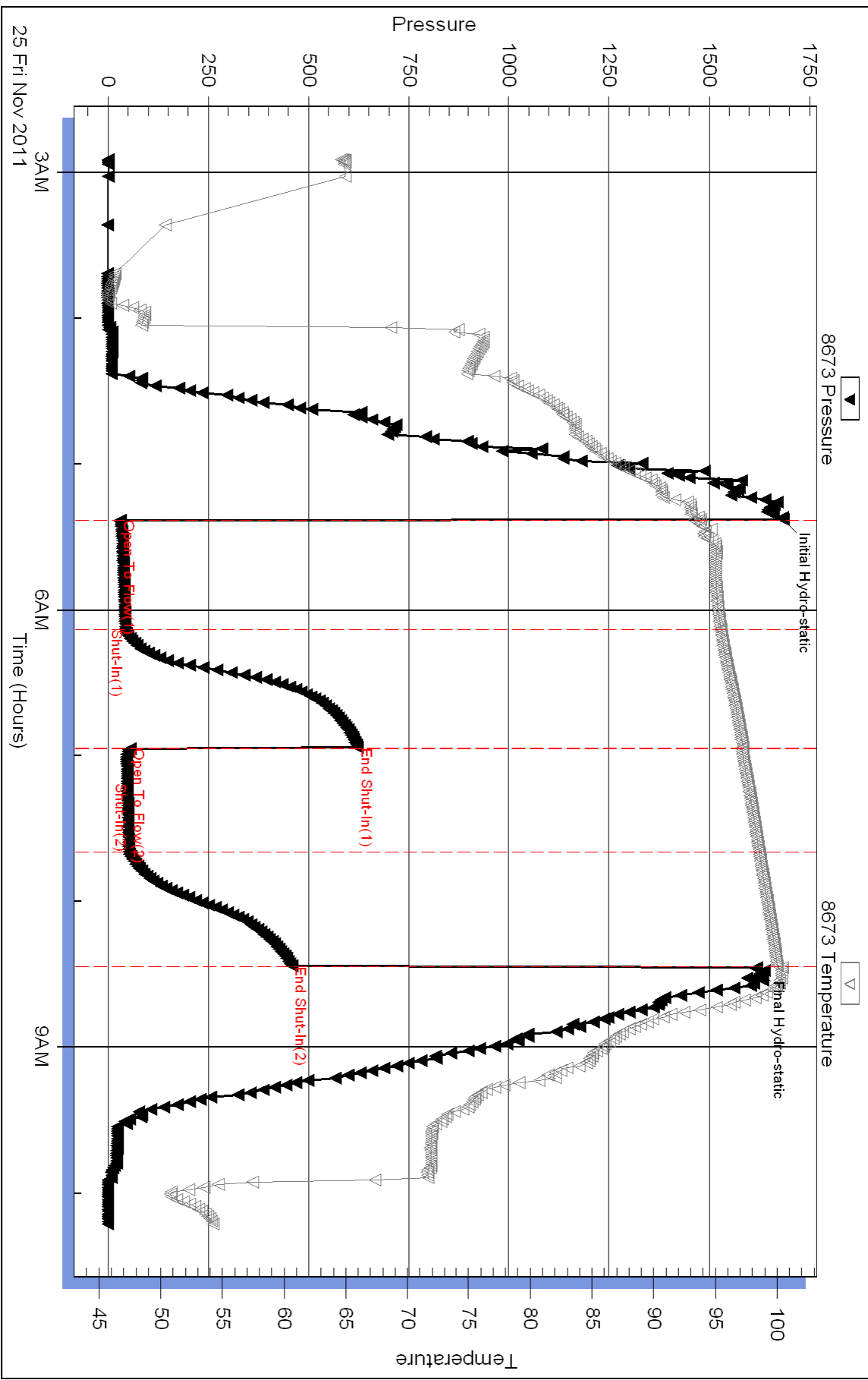
Inside

TDI Inc.

Beiker #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44695

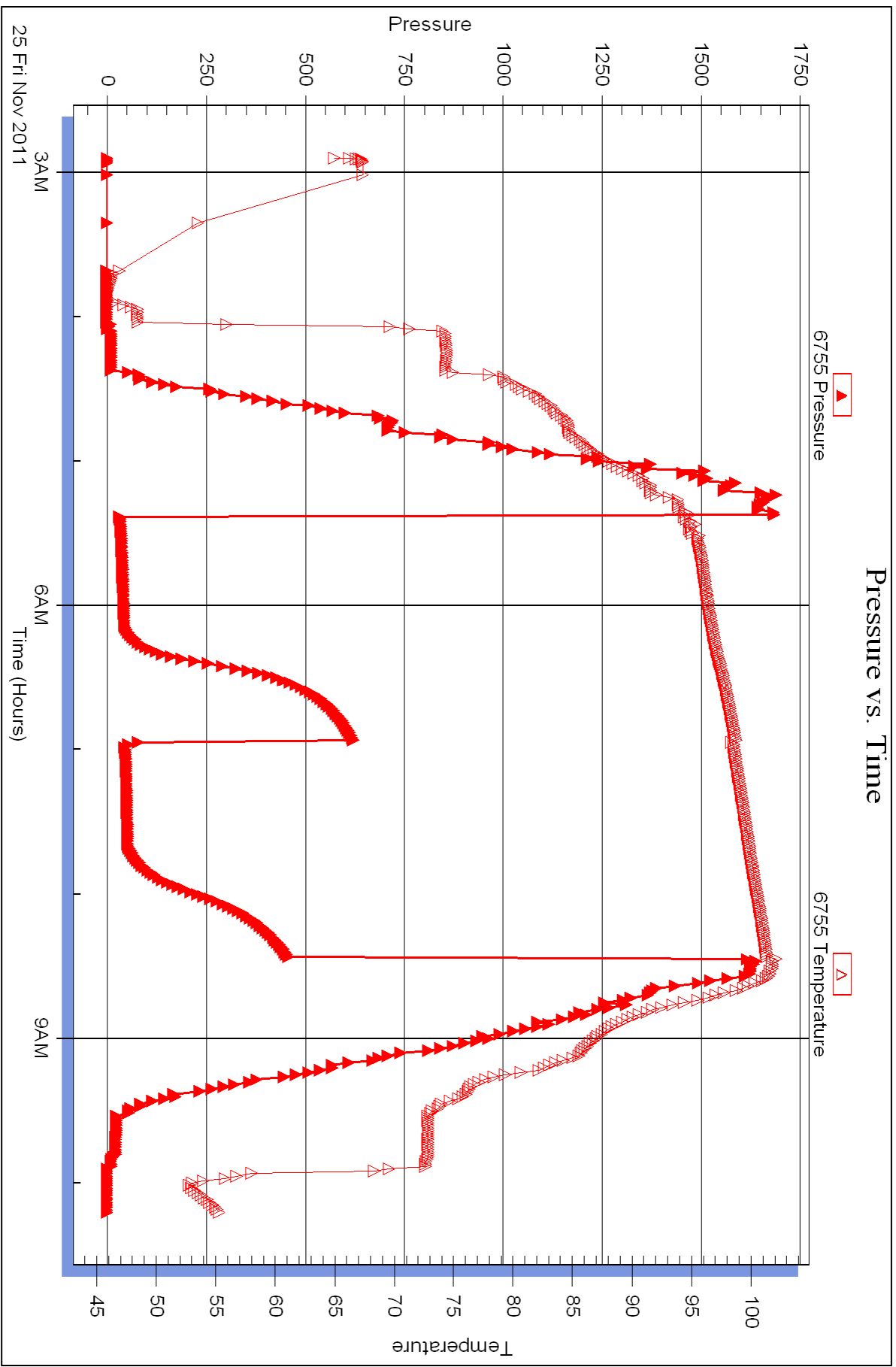
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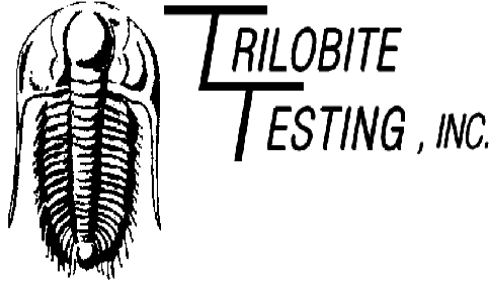
Serial #: 6755

Outside TDI Inc.

Beiker #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS 67601

ATTN: Jeff Lawler

Beiker #1

24-15s-19w Ellis,KS

Start Date: 2011.11.26 @ 00:26:54

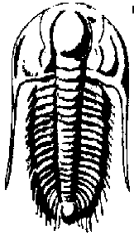
End Date: 2011.11.26 @ 06:54:09

Job Ticket #: 44696 DST #: 3

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

Printed: 2011.11.30 @ 14:55:46

TDI Inc.
24-15s-19w Ellis,KS
Beiker #1
DST # 3
LKC K-Conglomerate S
2011.11.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis, KS
Beiker #1
Job Ticket: 44696 **DST#: 3**
Test Start: 2011.11.26 @ 00:26:54

GENERAL INFORMATION:

Formation: **LKC K-Conglomerate S**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:22:09
Time Test Ended: 06:54:09
Interval: **3470.00 ft (KB) To 3605.00 ft (KB) (TVD)**
Total Depth: 3605.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 1988.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 7.00 ft

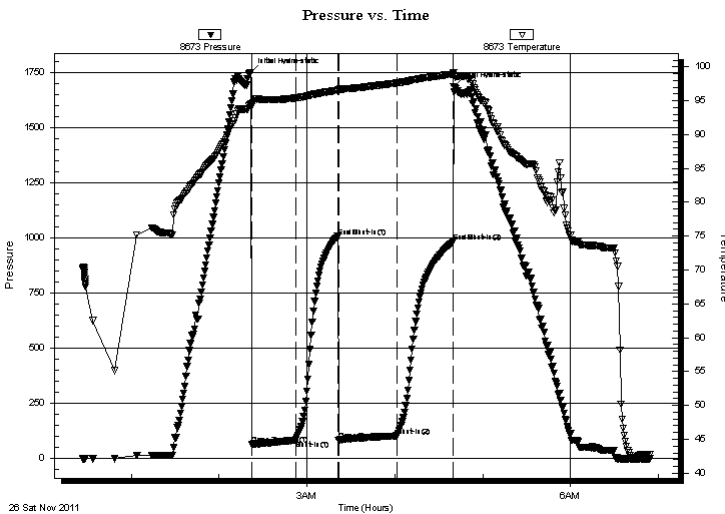
Serial #: 8673

Inside

Press @ Run Depth: 103.44 psig @ 3572.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.26 End Date: 2011.11.26 Last Calib.: 2011.11.26
Start Time: 00:26:56 End Time: 06:54:09 Time On Btm: 2011.11.26 @ 02:21:39
Time Off Btm: 2011.11.26 @ 04:40:09

TEST COMMENT: IFP-Good Blow, BOB in 10 Min
ISI-Dead
FFP-Good Blow, BOB in 7 Min.
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.79	94.54	Initial Hydro-static
1	64.26	94.13	Open To Flow (1)
31	83.59	95.39	Shut-In(1)
60	1008.85	96.52	End Shut-In(1)
60	83.25	96.59	Open To Flow (2)
100	103.44	97.61	Shut-In(2)
138	982.74	98.93	End Shut-In(2)
139	1689.52	99.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Free Oil	0.70
60.00	Mud Cut Oil-30%G-40%O-30%M	0.84
0.00	360' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis,KS
Beiker #1
Job Ticket: 44696 **DST#: 3**
Test Start: 2011.11.26 @ 00:26:54

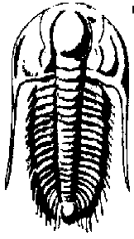
Tool Information

Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 48.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3470.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	135.00 ft				
Tool Length:	156.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3450.00	
Shut In Tool	5.00			3455.00	
Hydraulic tool	5.00			3460.00	
Packer	5.00			3465.00	21.00 Bottom Of Top Packer
Packer	5.00			3470.00	
Stubb	1.00			3471.00	
Perforations	5.00			3476.00	
Change Over Sub	1.00			3477.00	
Blank Spacing	94.00			3571.00	
Change Over Sub	1.00			3572.00	
Recorder	0.00	8673	Inside	3572.00	
Recorder	0.00	6755	Outside	3572.00	
Perforations	30.00			3602.00	
Bullnose	3.00			3605.00	135.00 Bottom Packers & Anchor

Total Tool Length: 156.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Road
Hays, KS 67601
ATTN: Jeff Lawler

24-15s-19w Ellis,KS
Beiker #1
Job Ticket: 44696 **DST#: 3**
Test Start: 2011.11.26 @ 00:26:54

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Free Oil	0.701
60.00	Mud Cut Oil-30%G-40%O-30%M	0.842
0.00	360' Gas In Pipe	0.000

Total Length: 110.00 ft Total Volume: 1.543 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

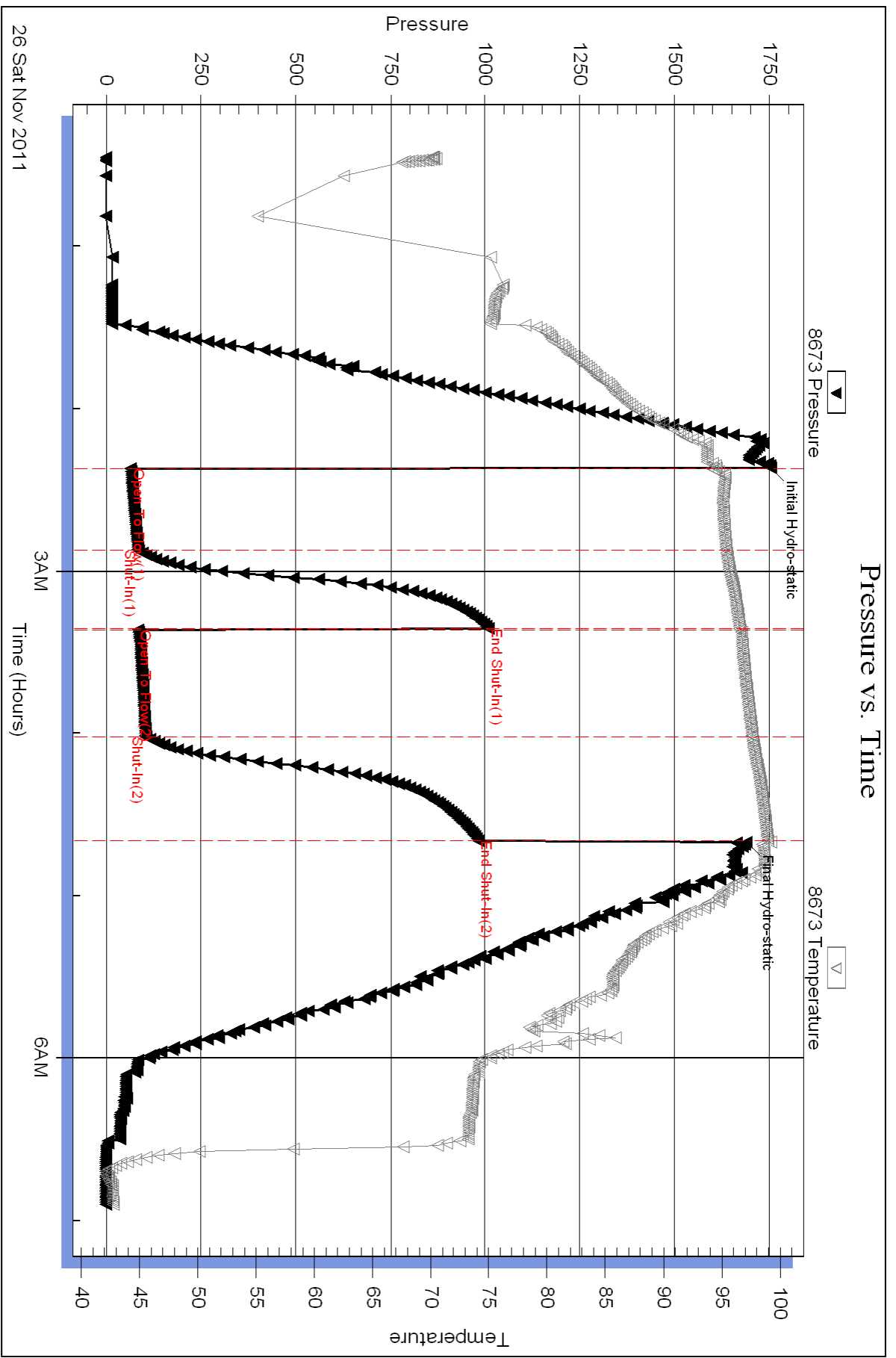
Serial #: 8673

Inside

TDI Inc.

Beiker #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 44696

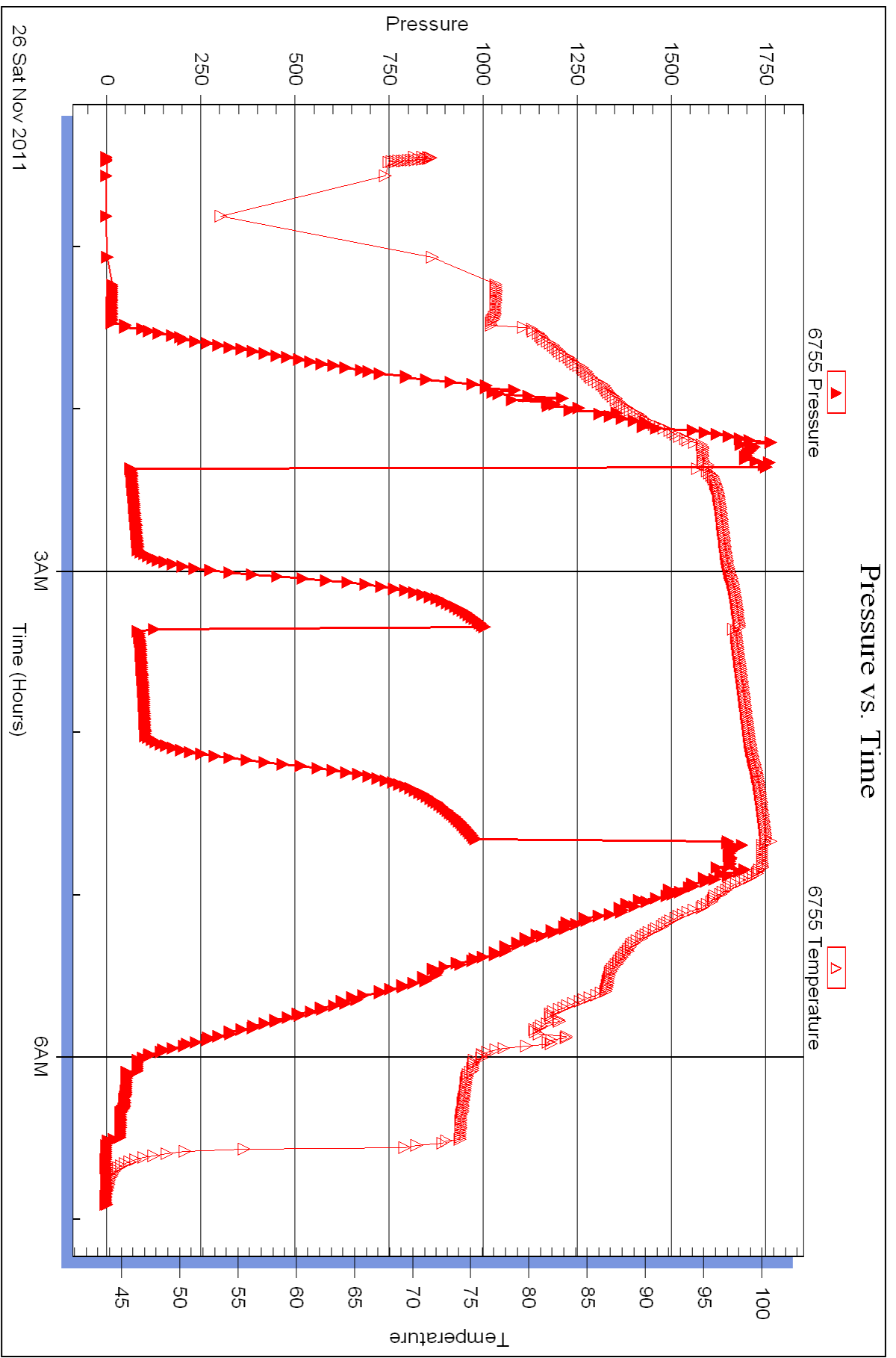
Printed: 2011.11.30 @ 14:55:49

Serial #: 6755

Outside TDI Inc.

Beiker #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 44696

Printed: 2011.11.30 @ 14:55:49



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket
NOV 23 2011 NO. 44694

Well Name & No. Bieker #1 Test No. 1 Date 11-24-11
 Company TDI Inc. Elevation 1988 KB 1981 GL
 Address 1310 Bison Road, Hays, KS. 67601
 Co. Rep / Geo. Jeff Lawler Rig Southwind #1
 Location: Sec. 24 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3284-3340 Zone Tested BCD
 Anchor Length 56' Drill Pipe Run 3268 Mud Wt. 9.0
 Top Packer Depth 3279 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3284 Wt. Pipe Run 0 WL 6.4
 Total Depth 3340 Chlorides 3800 ppm System LCM NIL
 Blow Description IFF - Strong Blow, BOB in 2 min.
ISI - Blowback BOB in 15 min.
IFF - Strong, BOB in 2 min., Gas To Surface in 25 min.
FSI - Blowback BOB in 5 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
<u>720</u>	<u>Muddy Oil</u>	<u>97</u>		<u>3</u>	
<u>150</u>	<u>Muddy Water</u>		<u>95</u>	<u>5</u>	

Rec Total 930 BHT 106 Gravity 39 API RW 140 @ 76 °F Chlorides 46,000 ppm
 (A) Initial Hydrostatic 1599 Test 1125 T-On Location 7:10
 (B) First Initial Flow 86 Jars _____ T-Started 8:27
 (C) First Final Flow 292 Safety Joint _____ T-Open 10:42
 (D) Initial Shut-In 660 Circ Sub _____ T-Pulled 13:12
 (E) Second Initial Flow 294 Hourly Standby _____ T-Out 16:06
 (F) Second Final Flow 393 Mileage 24.8 33.60 Comments _____
 (G) Final Shut-In 667 Sampler _____
 (H) Final Hydrostatic 1557 Straddle _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1158.60

Approved By _____ Our Representative Jason McJannet
 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

RECEIVED
NOV 23 2011

Test Ticket

NO. 44695

Well Name & No. Bieker #1 Test No. 2 Date 11-25-11
 Company TDI, Inc. Elevation 1988 KB 1981 GL
 Address 1310 Bison Road, Hays, KS, 67601
 Co. Rep / Geo. Jeff Lawler Rig Southwind #1
 Location: Sec. 24 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3428 - 3478 Zone Tested I-J
 Anchor Length 50 Drill Pipe Run 3422 Mud Wt. 9.2
 Top Packer Depth 3423 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3428 Wt. Pipe Run 0 WL 6.8
 Total Depth 3478 Chlorides 20 ppm System LCM Nil
 Blow Description IFF - Weak Blow, Built to 4 1/2"
ISI - Dead
FFP - Weak Blow, Built to 3"
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>				
<u>45</u>	<u>Muddy Water</u>		<u>60</u>	<u>40</u>	

Rec Total 50 BHT 100° Gravity 32 API RW, 543 @ 53 °F Chlorides 19,000 ppm

(A) Initial Hydrostatic 1684 Test 1125 T-On Location 2:39
 (B) First Initial Flow 30 Jars _____ T-Started 2:52
 (C) First Final Flow 43 Safety Joint _____ T-Open 5:18
 (D) Initial Shut-In 623 Circ Sub _____ T-Pulled 8:18
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 10:12
 (F) Second Final Flow 51 Mileage 4 RT 33.60 Comments _____
 (G) Final Shut-In 459 Sampler _____
 (H) Final Hydrostatic 1619 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

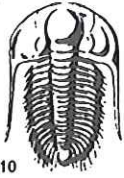
Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Sub Total 1158.60

Total 1158.60
 MP/DST Disc't _____

Approved By _____ Our Representative Jason McJemou Thank You

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 23 2011

Test Ticket

NO. 44696

4/10

BY: _____

Well Name & No. Bieker #1 Test No. 3 Date 11-25-11
 Company TDI, Inc. Elevation 2988 KB 1981 GL
 Address 1310 Bison Road, Hays, KS. 67601
 Co. Rep / Geo. Jeff Lawler Rig Southwind #1
 Location: Sec. 24 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3470 - 3605 Zone Tested K - Conglomerate Sand
 Anchor Length 135 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3465 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3470 Wt. Pipe Run 0 WL 6.8
 Total Depth 3605 Chlorides 20 ppm System LCM Nil
 Blow Description IFP - Good Blow, BOB in 10 min.
ISI - Dead
IFP - Good Blow, BOB in 7 min.
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Free oil</u>				
<u>60</u>	<u>Mud cut oil</u>	<u>30</u>	<u>40</u>		<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>3601 GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 99 Gravity 4.3 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1753 Test 125 T-On Location 23:46
 (B) First Initial Flow 64 Jars _____ T-Started 24:24
 (C) First Final Flow 84 Safety Joint _____ T-Open 2:17
 (D) Initial Shut-In 1009 Circ Sub _____ T-Pulled 4:17
 (E) Second Initial Flow 83 Hourly Standby _____ T-Out 6:55
 (F) Second Final Flow 103 Mileage Start 33.60 Comments _____
 (G) Final Shut-In 983 Sampler _____
 (H) Final Hydrostatic 1690 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1158.60
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1158.60

Approved By _____ Our Representative Jason McJannet

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Thank You