



## DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison RD  
Hays KS 67601-9696

ATTN: Tom Denning Herb Dei

### **Virginia #2**

#### **16-15s-19w Ellis,KS**

Start Date: 2017.07.15 @ 11:16:04

End Date: 2017.07.15 @ 16:21:58

Job Ticket #: 63975                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.07.17 @ 10:42:19

TDI Inc  
16-15s-19w Ellis,KS  
Virginia #2  
DST # 1  
LKC-C-D  
2017.07.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

TDI Inc  
 1310 Bison RD  
 Hays KS 67601-9696  
 ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
 Job Ticket: 63975 **DST#: 1**  
 Test Start: 2017.07.15 @ 11:16:04

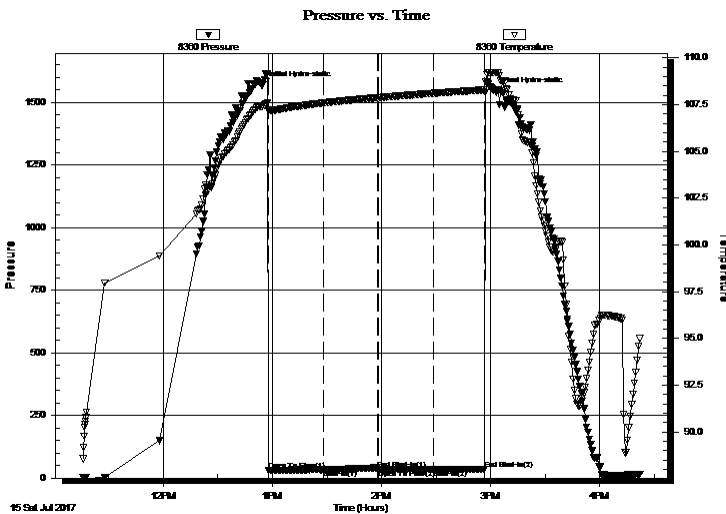
## GENERAL INFORMATION:

Formation: **LKC C-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:57:44  
 Time Test Ended: 16:21:58  
 Interval: **3305.00 ft (KB) To 3375.00 ft (KB) (TVD)**  
 Total Depth: 3375.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2019.00 ft (KB)  
 2009.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8360** **Inside**  
 Press@RunDepth: 34.50 psig @ 3309.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.07.15 End Date: 2017.07.15 Last Calib.: 2017.07.15  
 Start Time: 11:16:04 End Time: 16:21:58 Time On Btm: 2017.07.15 @ 12:54:44  
 Time Off Btm: 2017.07.15 @ 15:02:44

TEST COMMENT: 30-IFP-w k bl died in 15 min  
 30-ISIP-no bl  
 30-FFP-no bl  
 30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.79	107.42	Initial Hydro-static
3	32.31	107.16	Open To Flow (1)
34	33.77	107.58	Shut-In(1)
64	35.66	107.87	End Shut-In(1)
64	35.60	107.87	Open To Flow (2)
94	34.50	108.10	Shut-In(2)
122	35.39	108.29	End Shut-In(2)
128	1544.27	109.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

## 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 67601-9696  
ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
Job Ticket: 63975      **DST#: 1**  
Test Start: 2017.07.15 @ 11:16:04

**Tool Information**

Drill Pipe:	Length: 3298.00 ft	Diameter: 3.80 inches	Volume: 46.26 bbl	Tool Weight:	22000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 46.26 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3305.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	91.00 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			3285.00	
Shut In Tool	5.00			3290.00	
Hydraulic tool	5.00			3295.00	
Packer	5.00			3300.00	21.00      Bottom Of Top Packer
Packer	5.00			3305.00	
Stubb	1.00			3306.00	
Perforations	3.00			3309.00	
Recorder	0.00	8360	Inside	3309.00	
Recorder	0.00	6751	Outside	3309.00	
Blank Spacing	63.00			3372.00	
Bullnose	3.00			3375.00	70.00      Bottom Packers & Anchor

**Total Tool Length: 91.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc **16-15s-19w Ellis,KS**  
 1310 Bison RD **Virginia #2**  
 Hays KS 67601-9696 Job Ticket: 63975 **DST#: 1**  
 ATTN: Tom Denning Herb Dei Test Start: 2017.07.15 @ 11:16:04

## Mud and Cushion Information

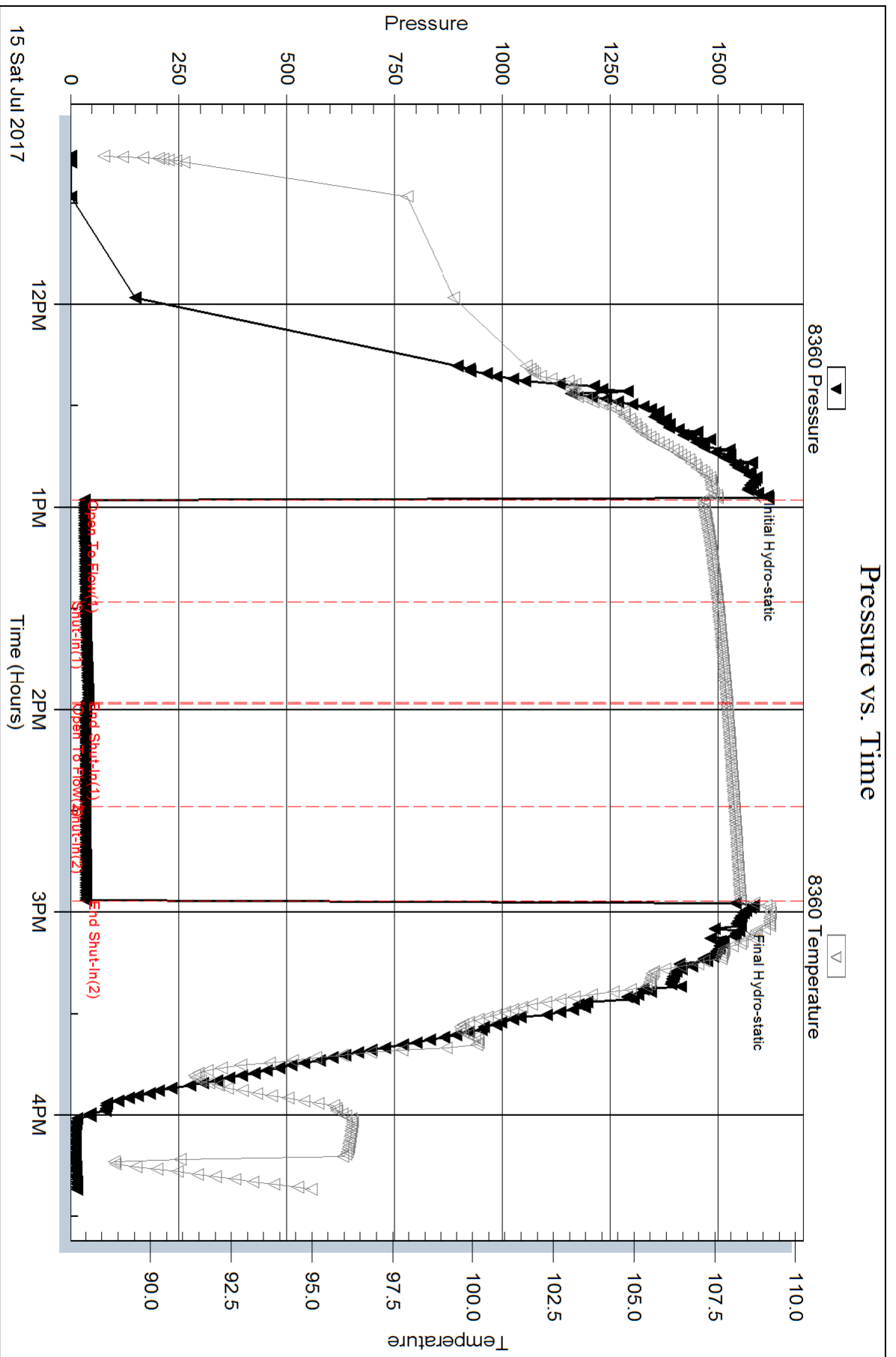
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

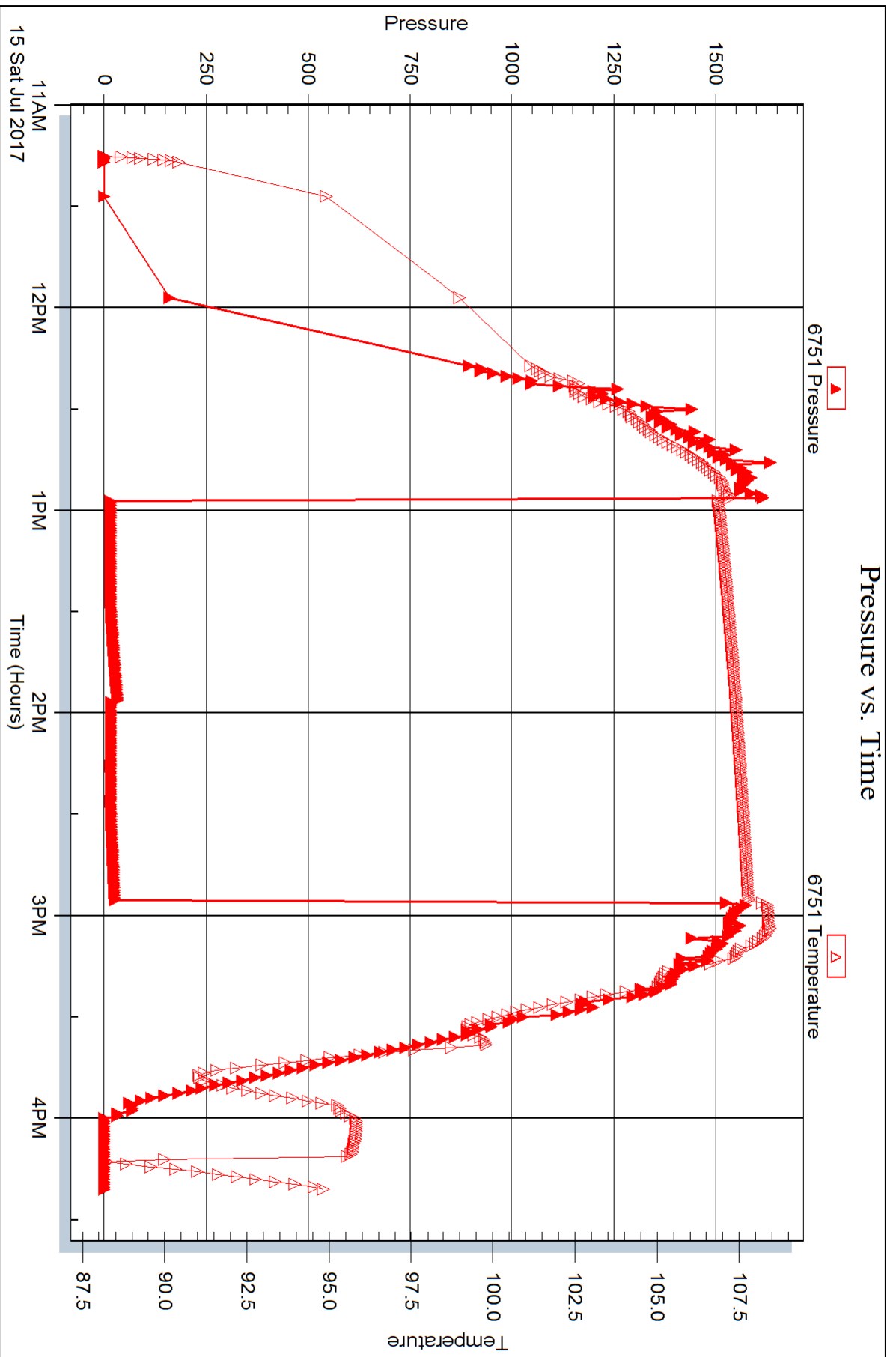
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	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:







## DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison RD  
Hays KS 67601-9696

ATTN: Tom Denning Herb Dei

### **Virginia #2**

### **16-15s-19w Ellis,KS**

Start Date: 2017.07.16 @ 07:50:09

End Date: 2017.07.16 @ 12:39:18

Job Ticket #: 63001                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.07.17 @ 10:41:48

TDI Inc  
16-15s-19w Ellis,KS  
Virginia #2  
DST # 2  
LKC J-K  
2017.07.16





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

TDI Inc  
 1310 Bison RD  
 Hays KS 67601-9696  
 ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
 Job Ticket: 63001 **DST#: 2**  
 Test Start: 2017.07.16 @ 07:50:09

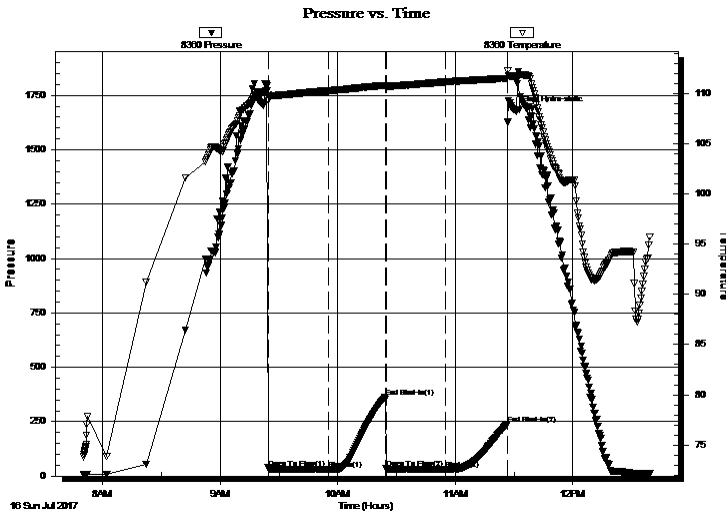
## GENERAL INFORMATION:

Formation: **LKC J-K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:24:34  
 Time Test Ended: 12:39:18  
 Interval: **3486.00 ft (KB) To 3535.00 ft (KB) (TVD)**  
 Total Depth: 3535.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2019.00 ft (KB)  
 2009.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8360 Inside**  
 Press@RunDepth: 32.16 psig @ 3499.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.07.16 End Date: 2017.07.16 Last Calib.: 2017.07.16  
 Start Time: 07:50:09 End Time: 12:39:18 Time On Btm: 2017.07.16 @ 09:22:04  
 Time Off Btm: 2017.07.16 @ 11:30:49

TEST COMMENT: 30-IFP-surface bl, died in 12 min  
 30-ISIP-no bl  
 30-FFP-no bl  
 30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1703.45	110.14	Initial Hydro-static
3	34.84	109.78	Open To Flow (1)
34	32.23	110.27	Shut-In(1)
62	362.93	110.80	End Shut-In(1)
63	34.08	110.70	Open To Flow (2)
93	32.16	111.14	Shut-In(2)
125	238.49	111.51	End Shut-In(2)
129	1680.93	111.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 1% O99%M	0.07

\* 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 RD  
Hays KS 67601-9696  
ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
Job Ticket: 63001      **DST#: 2**  
Test Start: 2017.07.16 @ 07:50:09

**Tool Information**

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight:	22000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 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: 48.93 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3486.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	70.00 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			3466.00	
Shut In Tool	5.00			3471.00	
Hydraulic tool	5.00			3476.00	
Packer	5.00			3481.00	21.00      Bottom Of Top Packer
Packer	5.00			3486.00	
Stubb	1.00			3487.00	
Perforations	12.00			3499.00	
Recorder	0.00	8360	Inside	3499.00	
Recorder	0.00	6751	Outside	3499.00	
Blank Spacing	33.00			3532.00	
Bullnose	3.00			3535.00	49.00      Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc **16-15s-19w Ellis,KS**  
 1310 Bison RD **Virginia #2**  
 Hays KS 67601-9696 Job Ticket: 63001 **DST#: 2**  
 ATTN: Tom Denning Herb Dei Test Start: 2017.07.16 @ 07:50:09

## Mud and Cushion Information

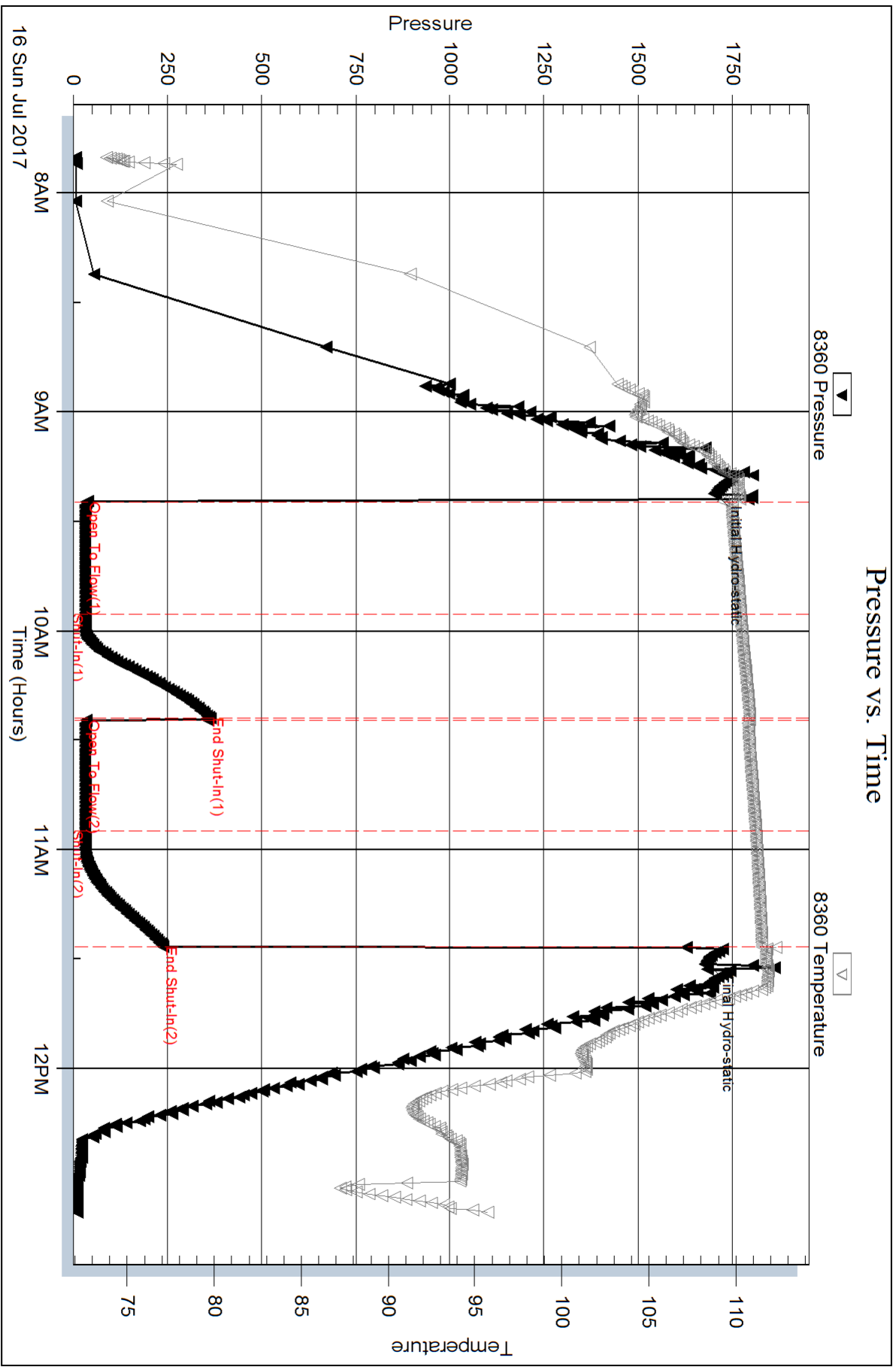
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: 1.00 inches			

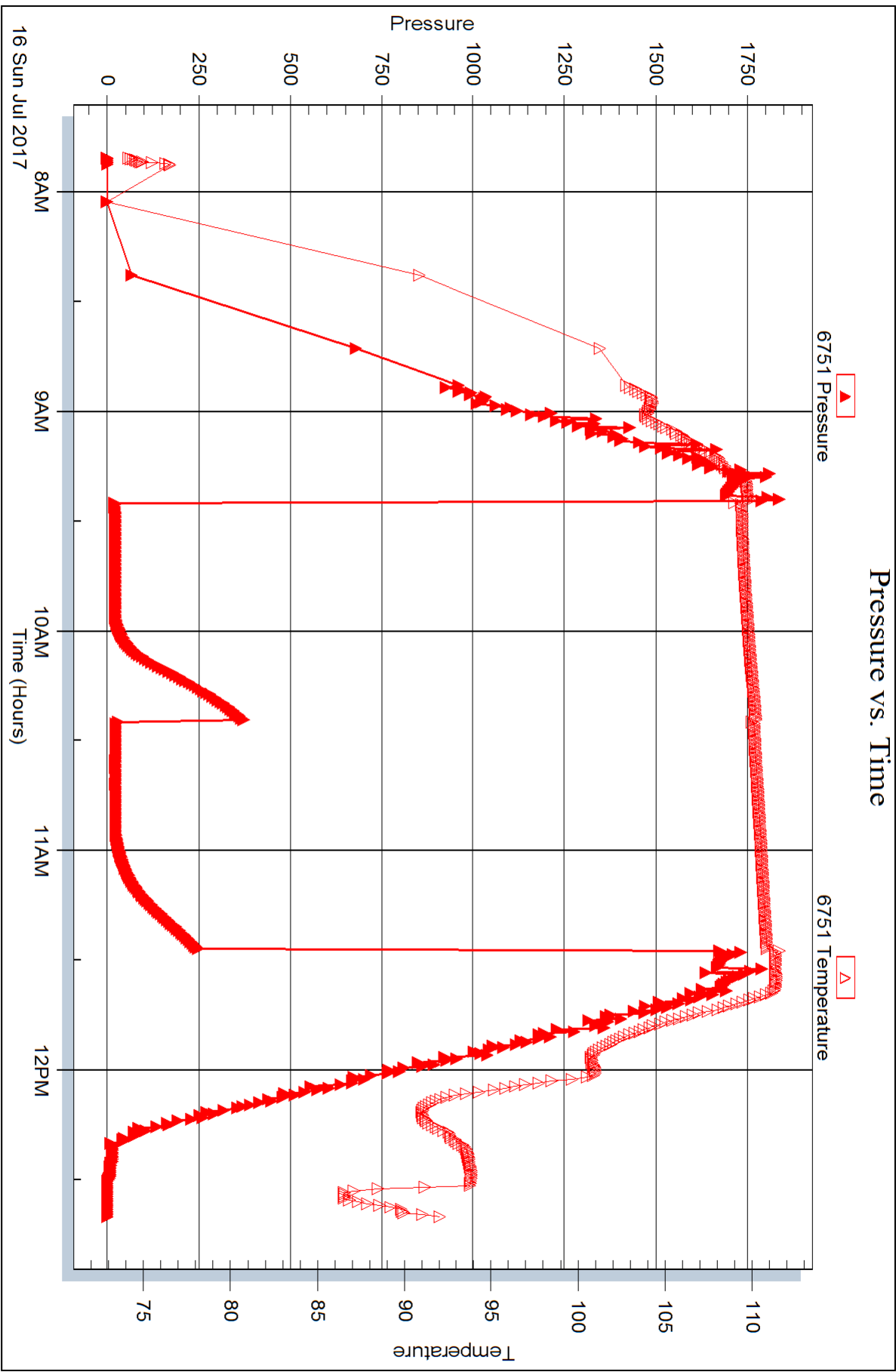
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 1%O99%M	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:







## DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison RD  
Hays KS 67601-9696

ATTN: Tom Denning Herb Dei

### **Virginia #2**

#### **16-15s-19w Ellis,KS**

Start Date: 2017.07.16 @ 22:05:54

End Date: 2017.07.17 @ 03:42:03

Job Ticket #: 63002                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.07.17 @ 10:41:15



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TDI Inc  
1310 Bison RD  
Hays KS 67601-9696  
ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
Job Ticket: 63002 **DST#: 3**  
Test Start: 2017.07.16 @ 22:05:54

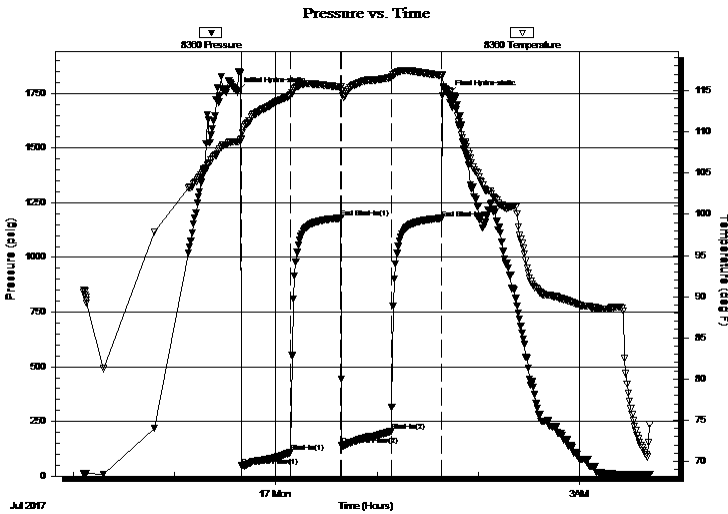
## GENERAL INFORMATION:

Formation: **Congl Sd**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:39:34  
Time Test Ended: 03:42:03  
Interval: **3618.00 ft (KB) To 3638.00 ft (KB) (TVD)**  
Total Depth: 3638.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 77  
Reference Elevations: 2019.00 ft (KB)  
2009.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8360** **Inside**  
Press@RunDepth: 205.82 psig @ 3619.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2017.07.16 End Date: 2017.07.17 Last Calib.: 2017.07.17  
Start Time: 22:05:54 End Time: 03:42:03 Time On Btm: 2017.07.16 @ 23:37:04  
Time Off Btm: 2017.07.17 @ 01:42:34

TEST COMMENT: 30-IFP-BOB in 7 min  
30-ISIP-1 1/2"bl bk  
30-FFP-BOB in 7 min  
30-FSIP-1/2" bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.13	108.78	Initial Hydro-static
3	46.30	109.10	Open To Flow (1)
32	109.56	114.44	Shut-In(1)
62	1179.97	115.42	End Shut-In(1)
62	140.13	114.93	Open To Flow (2)
92	205.82	116.63	Shut-In(2)
121	1178.79	116.86	End Shut-In(2)
126	1742.08	114.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
390.00	CO	5.47
124.00	GMO 20%G30%M50%O	1.74
0.00	100' GIP	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 RD  
Hays KS 67601-9696  
ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
Job Ticket: 63002      **DST#: 3**  
Test Start: 2017.07.16 @ 22:05:54

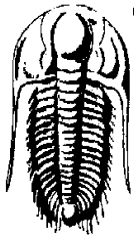
**Tool Information**

Drill Pipe:	Length: 3613.00 ft	Diameter: 3.80 inches	Volume: 50.68 bbl	Tool Weight: 22000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3618.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 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			3598.00	
Shut In Tool	5.00			3603.00	
Hydraulic tool	5.00			3608.00	
Packer	5.00			3613.00	21.00      Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Recorder	0.00	8360	Inside	3619.00	
Recorder	0.00	6751	Outside	3619.00	
Perforations	16.00			3635.00	
Bullnose	3.00			3638.00	20.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TDI Inc  
1310 Bison RD  
Hays KS 67601-9696  
ATTN: Tom Denning Herb Dei

**16-15s-19w Ellis,KS**  
**Virginia #2**  
Job Ticket: 63002  
Test Start: 2017.07.16 @ 22:05:54

**DST#: 3**

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5700.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

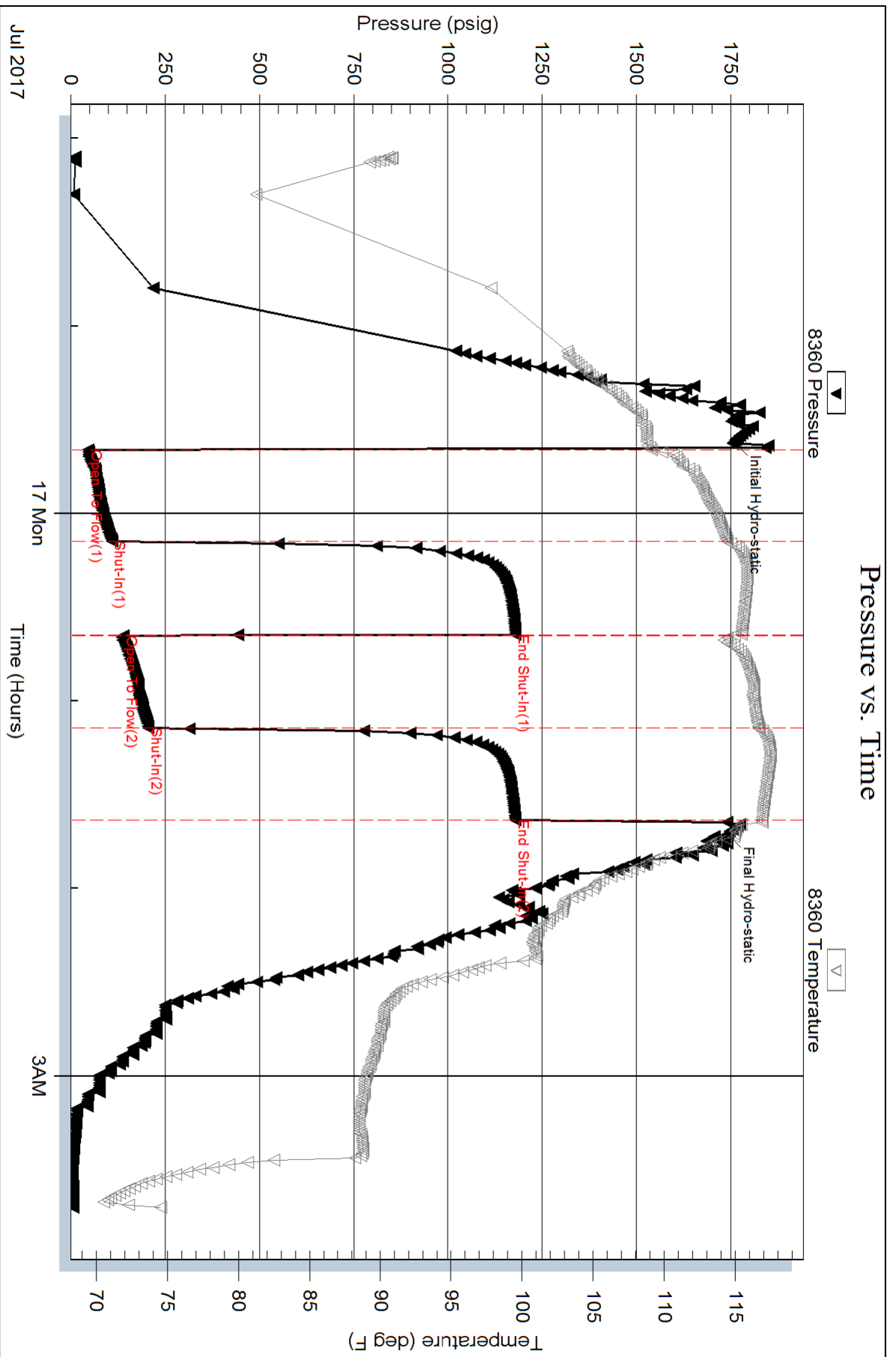
Length ft	Description	Volume bbl
390.00	CO	5.471
124.00	GMO 20%G30%M50%O	1.739
0.00	100' GIP	0.000

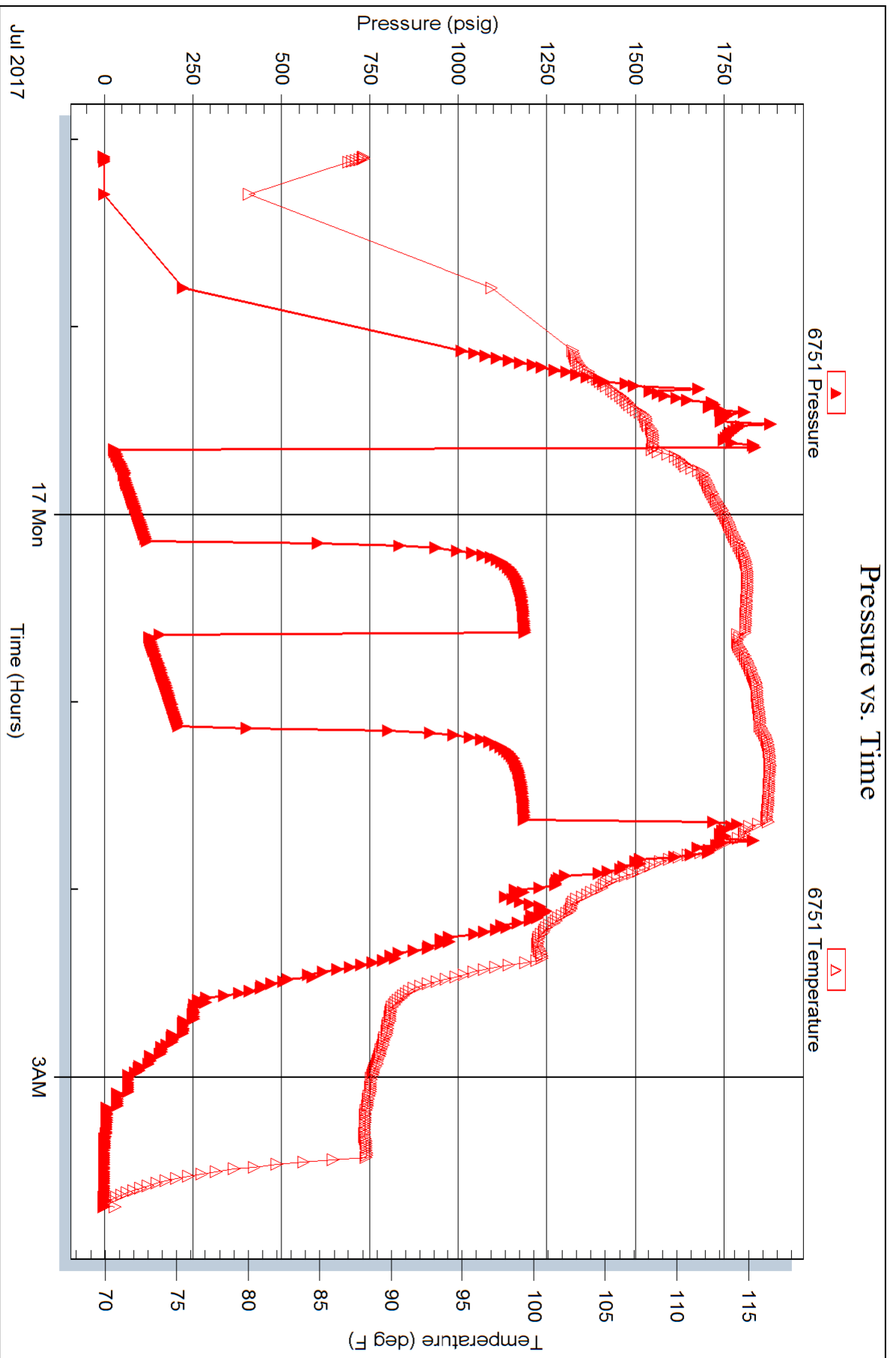
Total Length: 514.00 ft      Total Volume: 7.210 bbl

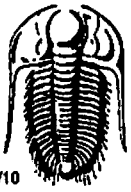
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63975

Well Name & No. VIRGINIA #2 Test No. 1 Date 7-15-17  
 Company TOT, Inc Elevation 2019 KB 2009 GL  
 Address 1310 Bison Rd Hays, Ks 67601-9696  
 Co. Rep / Geo. Herb Ornes Rig Southwind rig  
 Location: Sec. 16 Twp. 15<sup>s</sup> Rge. 19<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3305-3375 Zone Tested LKC C-0  
 Anchor Length 70 Drill Pipe Run 3298 Mud Wt. 9.1  
 Top Packer Depth 3300 Drill Collars Run - Vis 54  
 Bottom Packer Depth 3305 Wt. Pipe Run - WL 6.8  
 Total Depth 3375 Chlorides 6000 ppm System LCM 2#

Blow Description I FP - Weak Blow, died in 15 min  
TSTP - NO Blow  
FFP - NO Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 5 BHT 108 Gravity - API RW @ F Chlorides - ppm

- (A) Initial Hydrostatic 1567
- (B) First Initial Flow 32
- (C) First Final Flow 33
- (D) Initial Shut-In 35
- (E) Second Initial Flow 35
- (F) Second Final Flow 34
- (G) Final Shut-In 35
- (H) Final Hydrostatic 1544

- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 34 RT 25.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 1015  
 T-Started 1115  
 T-Open 1255  
 T-Pulled 1455  
 T-Out 1621

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1075.50  
 MP/DST Disc't \_\_\_\_\_

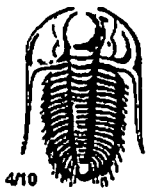
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1075.50

Approved By \_\_\_\_\_

Our Representative Ray Schwager Thank you

Triobite 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63001

Well Name & No. VIRGINIA #2 Test No. 2 Date 7-16-17  
 Company TOI Inc Elevation 2019 KB 2009 GL  
 Address 1310 Bison Rd. Hays Ks 67601-9696  
 Co. Rep / Geo. Herb Deines Rig Southwind rig 1  
 Location: Sec. 16 Twp. 15<sup>s</sup> Rge. 19<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3486-3535 Zone Tested LKC J-K  
 Anchor Length 49 Drill Pipe Run 3488 Mud Wt. 9.1  
 Top Packer Depth 3481 Drill Collars Run - Vis 52  
 Bottom Packer Depth 3486 Wt. Pipe Run - WL 6.8  
 Total Depth 3535 Chlorides 5700 ppm System LCM 2#  
 Blow Description IFP - SURFACE Blow, died in 12 min  
ISTP - NO Blow  
FFP - NO Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>50 CM</u>		<u>1</u>		<u>99</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 5 BHT 111 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1703  Test 1050 T-On Location 0655  
 (B) First Initial Flow 34  Jars \_\_\_\_\_ T-Started 0750  
 (C) First Final Flow 32  Safety Joint \_\_\_\_\_ T-Open 0925  
 (D) Initial Shut-In 362  Circ Sub \_\_\_\_\_ T-Pulled 1125  
 (E) Second Initial Flow 34  Hourly Standby \_\_\_\_\_ T-Out 1239  
 (F) Second Final Flow 32  Mileage 34 RT 25.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 238  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1680  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1075.50

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

Sub Total 0  
 Total 1075.50  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER Thank you



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63002

Well Name & No. Virginia #2 Test No. 3 Date 7-16-12  
 Company TDI Inc Elevation 2019 KB 2009 GL  
 Address 1310 Bison Rd Hays, Ks 67601-9696  
 Co. Rep / Geo. Herb Deines Rig Southwind rig 1  
 Location: Sec. 16 Twp. 15<sup>s</sup> Rge. 19<sup>w</sup> Co. Ellis State Ks

Interval Tested 3618-3638 Zone Tested Conglo. sd.  
 Anchor Length 20 Drill Pipe Run 3613 Mud Wt. 9.2  
 Top Packer Depth 3613 Drill Collars Run - Vis 48  
 Bottom Packer Depth 3618 Wt. Pipe Run - WL 6.8  
 Total Depth 3638 Chlorides 5700 ppm System LCM 2<sup>#</sup>

Blow Description TFP - BOB IN 7 MIN  
ISIP - 1 1/2" BLOW BACK  
FFP - BOB IN 7 MIN  
FSIP - 1/2" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>GTP</u>				
<u>390</u>	<u>CO</u>				
<u>124</u>	<u>GMO</u>	<u>20</u>	<u>50</u>		<u>30</u>

Rec Total 514 BHT \_\_\_\_\_ Gravity 30 API RW - @ - °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 1759
- (B) First Initial Flow 46
- (C) First Final Flow 109
- (D) Initial Shut-In 1179
- (E) Second Initial Flow 140
- (F) Second Final Flow 205
- (G) Final Shut-In 1178
- (H) Final Hydrostatic 1742

- Test 1050
- Jars \_\_\_\_\_
- Safety Joint \_\_\_\_\_
- Circ Sub \_\_\_\_\_
- Hourly Standby \_\_\_\_\_
- Mileage 34 RT 25.50
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_
- Sub Total 1075.50

T-On Location 2140  
 T-Started 2205  
 T-Open 2340  
 T-Pulled 0140  
 T-Out 0342

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1075.50  
 MP/DST Disc't \_\_\_\_\_

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

Approved By \_\_\_\_\_

Our Representative Ray Schwager Thank you