

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Hartmen Oil Co, Inc**

10500 E Berkeley Sq Pkwy  
STE 300  
Wichita, KS 67206

ATTN: Kitt Noah

**23 10s 33w Thomas,KS**

**Nollette Trust #1-23**

Start Date: 2011.09.17 @ 02:42:00

End Date: 2011.09.17 @ 10:25:30

Job Ticket #: 44480                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

**ORIGINAL**

Printed: 2011.10.05 @ 12:15:01

Hartmen Oil Co, Inc

Nollette Trust #1-23

23 10s 33w Thomas,KS

DST # 1

Myric Station

2011.09.17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hartmen Oil Co, Inc  
10500 E Berkeley Sq Pkwy  
STE 300  
Wichuta, KS 67206  
ATTN: Kitt Noah

**Nollette Trust #1-23**  
**23 10s 33w Thomas,KS**  
Job Ticket: 44480      **DST#: 1**  
Test Start: 2011.09.17 @ 02:42:00

## GENERAL INFORMATION:

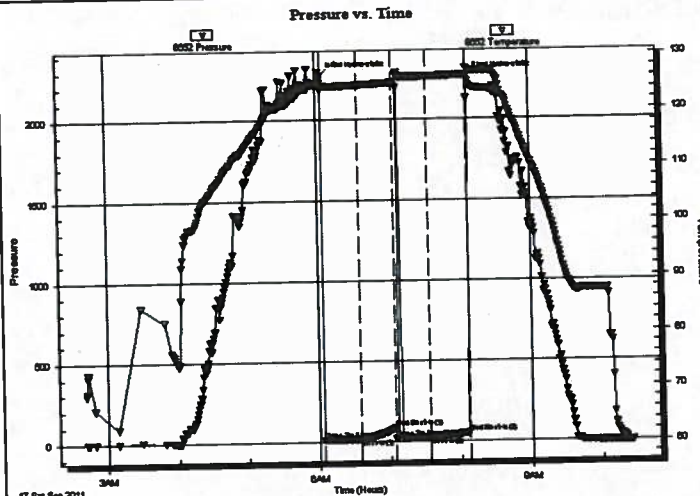
Formation: **Myric Station**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 06:04:00  
Time Test Ended: 10:25:30  
Interval: **4525.00 ft (KB) To 4554.00 ft (KB) (TVD)**  
Total Depth: 4554.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Bradley Walter  
Unit No: 40  
Reference Elevations: 3153.00 ft (KB)  
3142.00 ft (CF)  
KB to GR/CF: 11.00 ft

## Serial #: 8652

Inside

Press@RunDepth: 27.05 psig @ 4526.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.09.17      End Date: 2011.09.17      Last Calib.: 2011.09.17  
Start Time: 02:42:05      End Time: 10:25:29      Time On Btm: 2011.09.17 @ 06:03:45  
Time Off Btm: 2011.09.17 @ 08:08:15

TEST COMMENT: IF: Surface blow, died @ 7 minutes.  
IS: No return.  
FF: No blow, Flushed tool. No blow  
FSI: No blow.



## PRESSURE SUMMARY

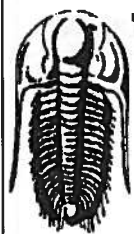
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.22	124.93	Initial Hydro-static
1	14.98	123.52	Open To Flow (1)
31	17.06	124.52	Shut-In(1)
61	85.78	124.90	End Shut-In(1)
61	19.11	124.84	Open To Flow (2)
90	27.05	126.01	Shut-In(2)
124	52.76	126.23	End Shut-In(2)
125	2262.04	127.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m(oil specks)	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Hartmen Oil Co, Inc  
10500 E Berkeley Sq Flwy  
STE 300  
Wichita, KS 67206  
ATTN: Kitt Noah

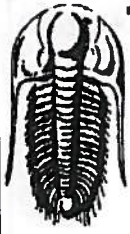
**Nollette Trust #1-23**  
**23 10s 33w Thomas,KS**  
Job Ticket: 44480      DST#: 1  
Test Start: 2011.09.17 @ 02:42:00

### Tool Information

Drill Pipe:	Length: 4332.00 ft	Diameter: 3.20 inches	Volume: 43.09 bbl	Tool Weight: 1500.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 43.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4525.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	50.00 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			4505.00	
Shut In Tool	5.00			4510.00	
Hydraulic tool	5.00			4515.00	
Packer	5.00			4520.00	21.00      Bottom Of Top Packer
Packer	5.00			4525.00	
Stubb	1.00			4526.00	
Recorder	0.00	8360	Outside	4526.00	
Recorder	0.00	8652	Inside	4526.00	
Perforations	25.00			4551.00	
Bullnose	3.00			4554.00	29.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Hartmen Oil Co, Inc  
10500 E Berkeley Sq Rwy  
STE 300  
Wichita, KS 67206  
ATTN: Kitt Noah

**Nollette Trust #1-23**  
**23 10s 33w Thomas,KS**  
Job Ticket: 44480      DST#: 1  
Test Start: 2011.09.17 @ 02:42:00

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.97 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 0 deg API  
Water Salinity: 0 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m(oil specks)	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 8652

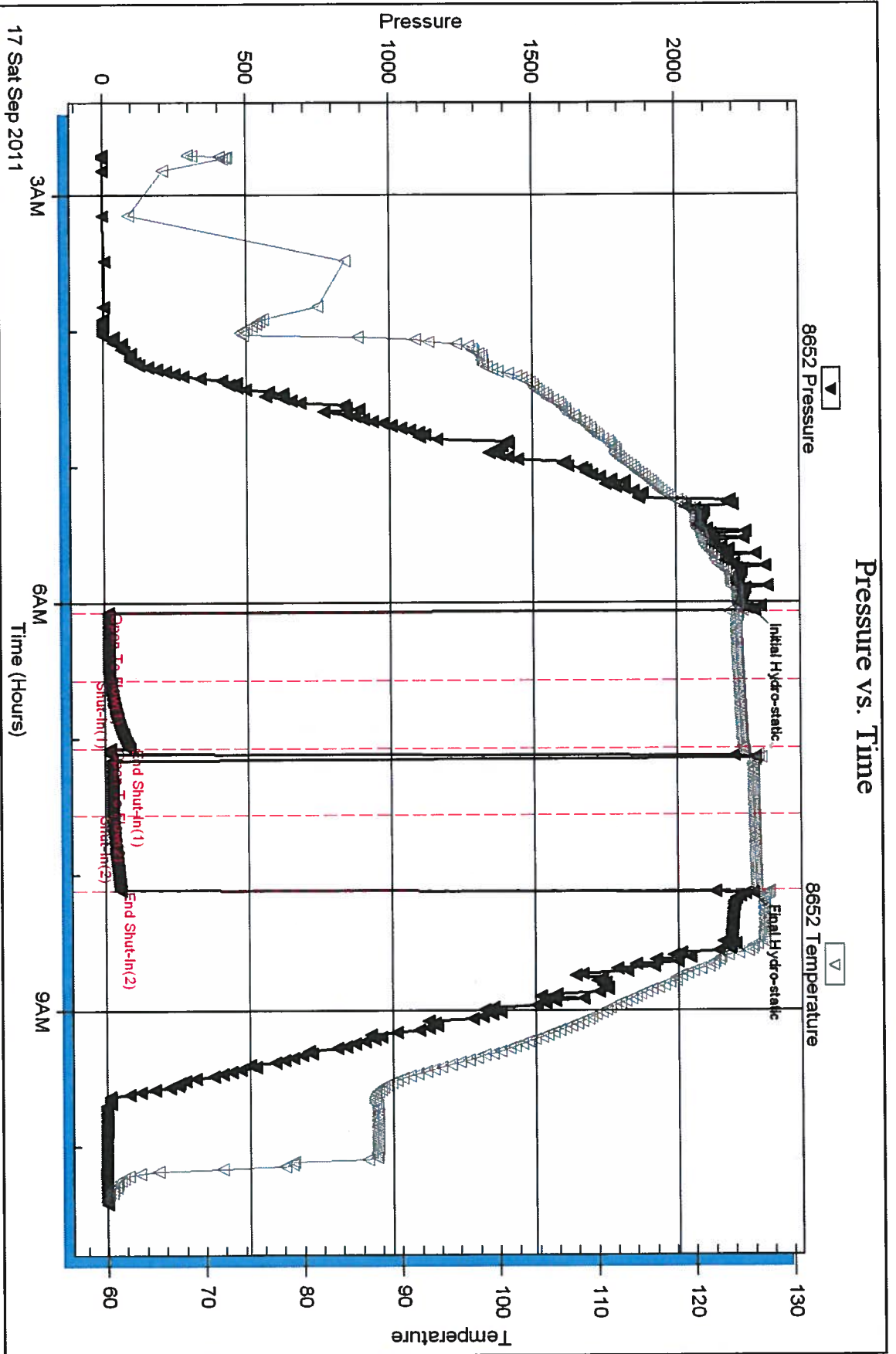
Inside

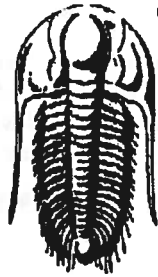
Hartman Oil Co., Inc

23 10s 33w Thomas, KS

DST Test Number: 1

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Hartmen Oil Co, Inc**

10500 E Berkeley Sq Pkwy  
STE 300  
Wichita, KS 67206

ATTN: Kitt Noah

**23 10s 33w Thomas,KS**

**Nollette Trust #1-23**

Start Date: 2011.09.18 @ 04:26:00

End Date: 2011.09.18 @ 11:15:00

Job Ticket #: 44481                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.05 @ 12:15:23

Hartmen Oil Co, Inc

Nollette Trust #1-23

23 10s 33w Thomas,KS

DST # 2

Johnson

2011.09.18



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hartmen Oil Co, Inc  
10500 E Berkeley Sq Flwy  
STE 300  
Wichita, KS 67206  
ATTN: Kitt Noah

**Nollette Trust #1-23**  
**23 10s 33w Thomas,KS**  
Job Ticket: 44481      DST#: 2  
Test Start: 2011.09.18 @ 04:26:00

## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 06:58:15  
Time Test Ended: 11:15:00

Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Bradley Walter**  
Unit No: **40**

Interval: **4607.00 ft (KB) To 4658.00 ft (KB) (TVD)**  
Total Depth: **4658.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3153.00 ft (KB)**  
**3142.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

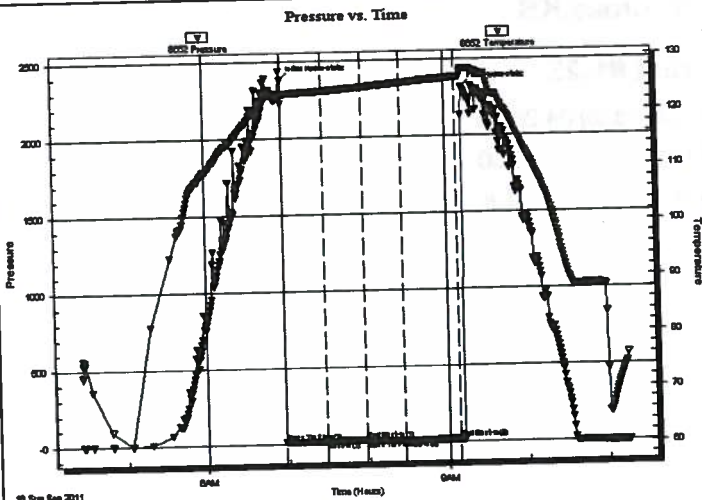
## Serial #: 8652

Inside

Press@RunDepth: **15.67 psig @ 4608.00 ft (KB)**  
Start Date: **2011.09.18**      End Date: **2011.09.18**  
Start Time: **04:26:05**      End Time: **11:14:59**

Capacity: **8000.00 psig**  
Last Calib.: **2011.09.18**  
Time On Btm: **2011.09.18 @ 06:58:00**  
Time Off Btm: **2011.09.18 @ 09:13:00**

TEST COMMENT: IF: Surface blow, died @ 11 minutes.  
ISI: No return.  
FF: No blow, Flushed tool, No blow.  
FSI: No return



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2379.62	123.40	Initial Hydro-static
1	14.31	121.76	Open To Flow (1)
31	15.13	123.89	Shut-In(1)
60	21.56	124.51	End Shut-In(1)
61	13.89	124.51	Open To Flow (2)
89	15.67	125.18	Shut-In(2)
131	18.24	126.08	End Shut-In(2)
135	2317.26	127.46	Final Hydro-static

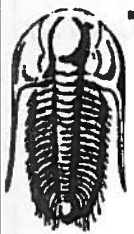
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Hartmen Oil Co, Inc  
10500 E Berkeley Sq Pkwy  
STE 300  
Wichita, KS 67206  
ATTN: Kitt Noah

**Nollette Trust #1-23**  
**23 10s 33w Thomas,KS**  
Job Ticket: 44481      DST#: 2  
Test Start: 2011.09.18 @ 04:26:00

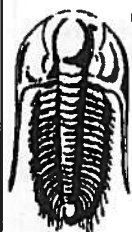
**Tool Information**

Drill Pipe:	Length: 4363.00 ft	Diameter: 3.20 inches	Volume: 43.40 bbl	Tool Weight: 1500.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 89000.00 lb
			<b>Total Volume: 44.58 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4607.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	72.00 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			4587.00	
Shut In Tool	5.00			4592.00	
Hydraulic tool	5.00			4597.00	
Packer	5.00			4602.00	21.00      Bottom Of Top Packer
Packer	5.00			4607.00	
Stubb	1.00			4608.00	
Recorder	0.00	8360	Outside	4608.00	
Recorder	0.00	8652	Inside	4608.00	
Perforations	14.00			4622.00	
Change Over Sub	1.00			4623.00	
Drill Pipe	31.00			4654.00	
Change Over Sub	1.00			4655.00	
Bullnose	3.00			4658.00	51.00      Bottom Packers & Anchor

**Total Tool Length: 72.00**





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# DRILL STEM TEST REPORT

FLUID SUMMARY

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10500 E Berkeley Sq Fkwy  
STE 300  
Wichita, KS 67206  
ATTN: Kitt Noah

**Nollette Trust #1-23**  
**23 10s 33w Thomas,KS**  
Job Ticket: 44481      **DST#: 2**  
Test Start: 2011.09.18 @ 04:26:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig  
Oil API: 0 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

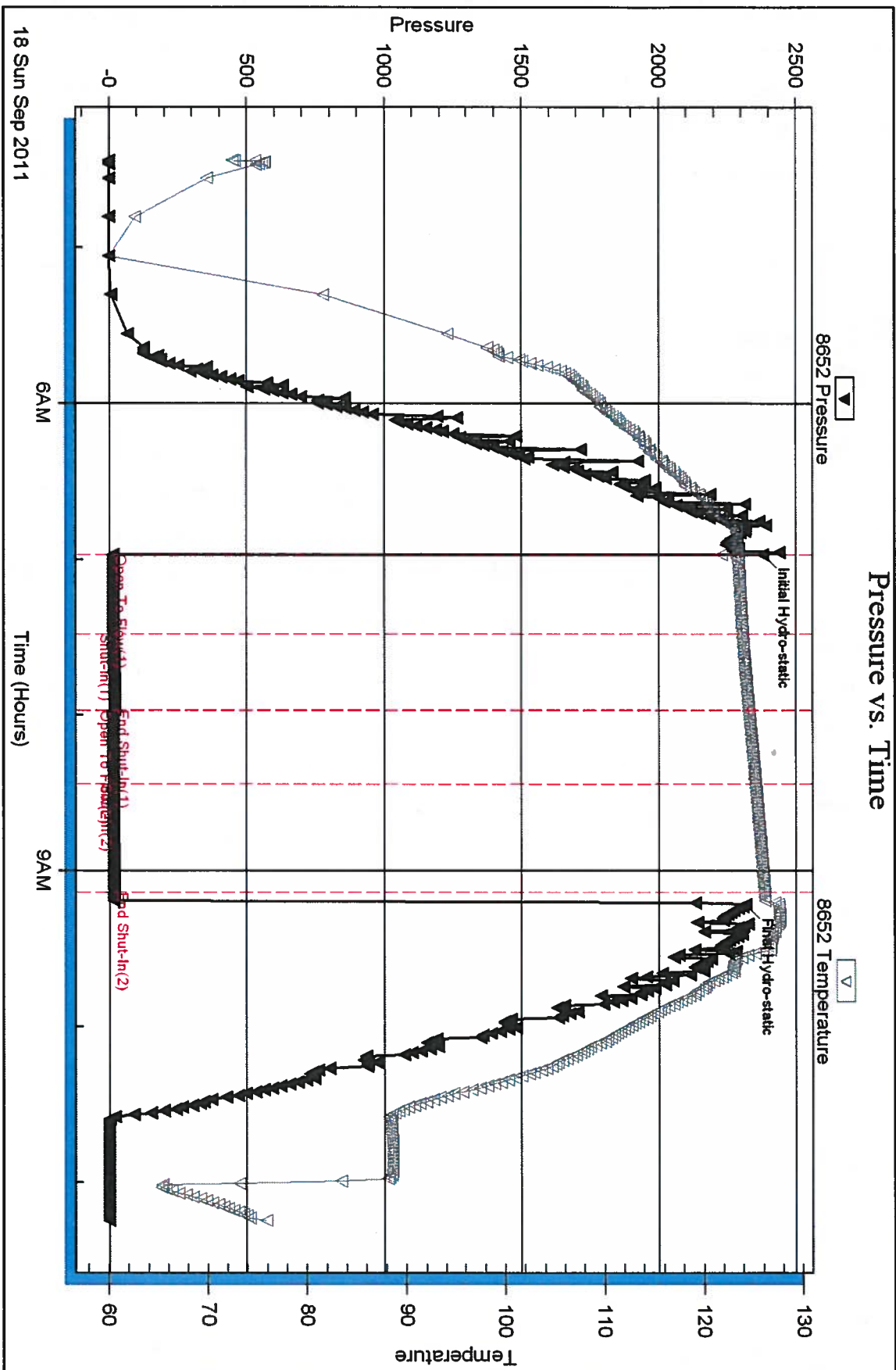
Serial #: 8652

Inside

Hartmen Oil Co, Inc

23 10s 33w Thomas, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 44481

Printed: 2011. 10.05 @ 12:15:25