



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1116753  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1116753

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	Lewis 14-7
Doc ID	1116753

All Electric Logs Run

Dual induction log with GR/SP
Compensated Sonic log with GR/CAL
Dual compensated porosity log with GR/CAL
Microresistivity log with GR/CAL

Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	Lewis 14-7
Doc ID	1116753

Tops

Name	Top	Datum
Stone Coral	740	1188
Indian Cove	2703	-777
Howard	3030	-1104
Topeka	3118	-1192
Heebner	3462	-1536
Lansing	3632	-1706
Mississippi	3995	-2069
Viola	4056	-2130
Simpson	4174	-2248
Arbuckle	4249	-2323

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 15, 2013

Henry N. Clanton  
ARES Energy, LTD  
405 N. MARIENFELD, STE 250  
MIDLAND, TX 79701

Re: ACO1  
API 15-185-23777-00-00  
Lewis 14-7  
NE/4 Sec.14-25S-13W  
Stafford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Henry N. Clanton

Bob's Hauling Service Inc.

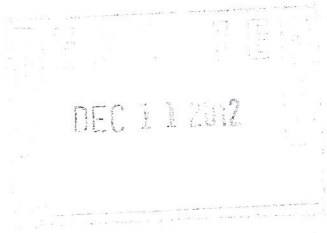
Invoice

P.O. Box 277

St John ,Ks. 67576

Phone 1-620-549-3228-Office

Phone 1-620-793-4017 -Bob's Mobil



Date	Invoice #
12/5/2012	16570

Bill To
Ares Energy LTD 405 N. Marienfeld, Ste. 250 Midland , TX.79701

P.O. No.	Terms	Project
Lewis1-14	Net 30	

Item	Qty	Description	Rate	Amount
Vac Truck	10.5	Haul 7 loads water from reserve pit to SWD - Service date 11-25-12	87.50	918.75
SWD Charge	7	SWD Charge	20.00	140.00
Vac Truck	10.5	Haul 7 loads water from reserve pit to SWD - Service date 11-26-12	87.50	918.75
SWD Charge	7	SWD Charge	20.00	140.00
Vac Truck	2	Finish empty pit after rig moved - Service date 12-04-12	87.50	175.00

*Thanks  
Bob*

Company				Ares	
Account #'s		Property #'s		PERMIT DOC. # D22209	
GEN	SUB	GEN	SUB	APP #	Amount
1160	130	7100	1407	D1002	OPERATOR LIC. 33779
					LEGAL-NW4 13-22-12
					SIEFKES
Approvals				Total	

Thank you for your business.

**Total**

\$2,292.50



RECEIVED

DEC 03 2012

PAGE	CUST NO	INVOICE DATE
1 of 1	1008415	11/28/2012
<b>INVOICE NUMBER</b>		
<b>1718 - 91060157</b>		

**Pratt** (620) 672-1201

B ARES ENERGY LTD  
 I 405 NORTH MARIENFELD  
 L MIDLAND  
 L TX US 79701  
 T  
 O **ATTN:** ACCOUNTS PAYABLE

**LEASE NAME** Lewis 14-7  
**LOCATION**  
**COUNTY** Stafford  
**STATE** KS  
**JOB DESCRIPTION** Cement-New Well Casing/Pi  
**JOB CONTACT**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40538557	20920		Net - 30 days	12/28/2012

**For Service Dates: 11/21/2012 to 11/21/2012**

0040538557

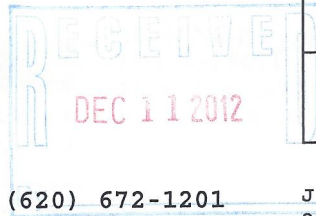
171807408A Cement-New Well Casing/Pi 11/21/2012  
 Cement 8 5/8" Surface

DESCRIPTION	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Common Cement	350.00	EA	12.00	4,200.00
Celloflake	63.00	EA	2.77	174.82
Calcium Chloride	987.00	EA	0.79	777.26
Cement Gel	470.00	EA	0.19	88.13
"Wooden Cmt Plug, 8 5/8""	1.00	EA	120.00	120.00
"Unit Mileage Chg (PU, cars one way)"	20.00	MI	3.19	63.75
Heavy Equipment Mileage	60.00	MI	5.25	315.00
"Proppant & Bulk Del. Chgs., per ton mil	329.00	EA	1.20	394.80
Depth Charge; 0-500'	1.00	EA	750.00	750.00
Blending & Mixing Service Charge	350.00	BAG	1.05	367.50
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

Company				Ares	
Account #'s		Property #'s		AFE #	Amount
GEN	SUB	GEN	SUB		
1100	71	7100	1407	D1902	
Approvals				Total	
<i>HNC</i>					

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	7,570.01
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	382.54
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	7,952.55
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		

A/P PROCESSED



PAGE 1 of 1	CUST NO 1008415	INVOICE DATE 12/04/2012
INVOICE NUMBER <b>1718 - 91065754</b>		

Pratt (620) 672-1201  
 B ARES ENERGY LTD  
 I 405 NORTH MARIENFELD  
 L MIDLAND  
 L TX US 79701  
 T  
 O ATTN: ACCOUNTS PAYABLE

JOB LEASE NAME Lewis 14-7  
 OB LOCATION  
 COUNTY Stafford  
 STATE KS  
 JOB DESCRIPTION Cement-New Well Casing/Pi  
 JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40541152	20920		Net - 30 days	01/03/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/02/2012 to 12/02/2012</i>				
0040541152				
171807046A Cement-New Well Casing/Pi 12/02/2012				
Cement 5 1/2" Longstring				
AA2 Cement	300.00	EA	12.79	3,837.50 T
C-41P	71.00	EA	3.01	213.70 T
Salt	1,509.00	EA	0.38	567.73 T
Cement Friction Reducer	141.00	EA	4.51	636.58 T
Mud Flush	500.00	EA	0.65	323.55 T
Gilsonite	1,500.00	EA	0.50	756.22 T
Claymax KCL Substitute	4.00	EA	26.34	105.34 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	300.98	300.98
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	270.88	270.88
"Turbolizer, 5 1/2" (Blue)"	7.00	EA	82.77	579.39
"Unit Mileage Chg (PU, cars one way)"	20.00	MI	3.20	63.96
Heavy Equipment Mileage	40.00	MI	5.27	210.69
"Proppant & Bulk Del. Chgs., per ton mil	282.00	EA	1.20	339.51
Depth Charge; 4001'-5000'	1.00	EA	1,896.18	1,896.18
Blending & Mixing Service Charge	300.00	BAG	1.05	316.03
Plug Container Util. Chg.	1.00	EA	188.11	188.11
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.68	131.68

Company				Ares	
Account #'s		Property #'s		AFE #	Amount
GEN	SUB	GEN	SUB		
1160	70	1100	1407	D1202	
Approvals				Total	

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,738.03
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	470.17
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,208.20
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

**A/P PROCESSED**





## DRILL STEM TEST REPORT

Prepared For: **Ares Energy,LTD**

405 N. Marienfeld,Ste.250  
Midland Tx.79701

ATTN: Justin Carter

### **Lewis #14-7**

#### **14-25s-13w Stafford Ks.**

Start Date: 2012.11.26 @ 19:03:52

End Date: 2012.11.27 @ 04:30:07

Job Ticket #: 49737                      DST #: 1

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

Printed: 2012.11.27 @ 04:54:40



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ares Energy, LTD  
 405 N. Marienfeld, Ste.250  
 Midland Tx.79701  
 ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
 Job Ticket: 49737 **DST#: 1**  
 Test Start: 2012.11.26 @ 19:03:52

## GENERAL INFORMATION:

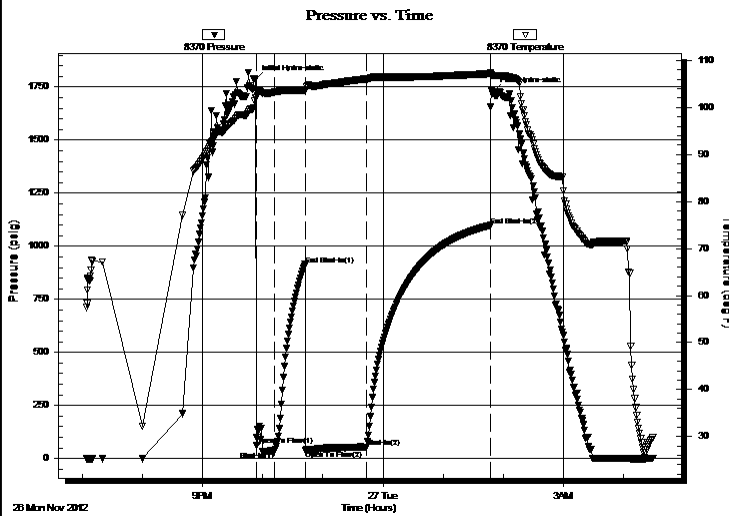
Formation: **LKC B**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:54:07  
 Time Test Ended: 04:30:07  
 Interval: **3652.00 ft (KB) To 3666.00 ft (KB) (TVD)**  
 Total Depth: 3666.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gary Pevoteaux  
 Unit No: 56  
 Reference Elevations: 1926.00 ft (KB)  
 1918.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8370

Inside

Press @ Run Depth: 53.93 psig @ 3653.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.26 End Date: 2012.11.27 Last Calib.: 2012.11.27  
 Start Time: 19:03:57 End Time: 04:30:07 Time On Btm: 2012.11.26 @ 21:52:37  
 Time Off Btm: 2012.11.27 @ 01:50:22

TEST COMMENT: IF: Fair blow . 2 - 5 1/2". 12 ft. of fill on btm. Slid tool 10 ft.  
 IS: No blow .  
 FF: Weak blow . 1/2 - 3 1/2".  
 FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.27	102.07	Initial Hydro-static
2	63.17	102.99	Open To Flow (1)
20	36.45	103.28	Shut-In(1)
50	914.27	103.69	End Shut-In(1)
50	39.96	103.65	Open To Flow (2)
111	53.93	106.03	Shut-In(2)
235	1098.71	107.14	End Shut-In(2)
238	1730.06	106.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCWM 6%o 32%w 62%m	0.32
0.00	Rw .28 ohms @ 38deg	0.00
0.00	180 ft.of GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ares Energy, LTD  
 405 N. Marienfeld, Ste.250  
 Midland Tx.79701  
 ATTN: Justin Carter

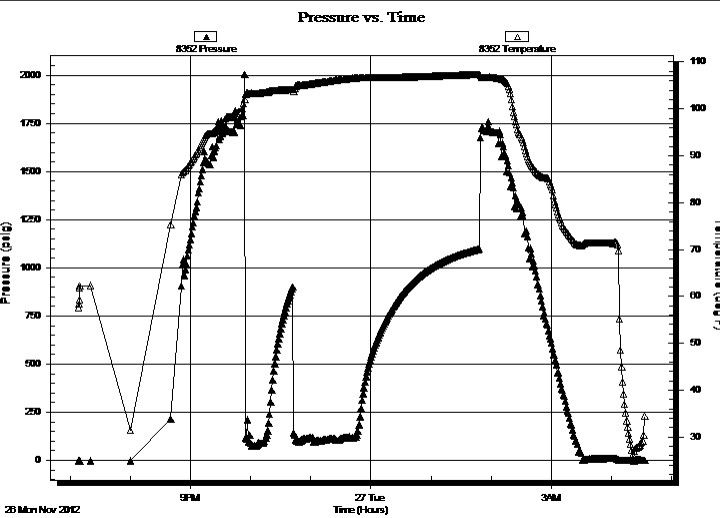
**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
 Job Ticket: 49737 **DST#: 1**  
 Test Start: 2012.11.26 @ 19:03:52

## GENERAL INFORMATION:

Formation: **LKC B**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:54:07 Tester: Gary Pevoteaux  
 Time Test Ended: 04:30:07 Unit No: 56  
 Interval: **3652.00 ft (KB) To 3666.00 ft (KB) (TVD)** Reference Elevations: 1926.00 ft (KB)  
 Total Depth: 3666.00 ft (KB) (TVD) 1918.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

**Serial #: 8352 Outside**  
 Press @ Run Depth: psig @ 3653.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.26 End Date: 2012.11.27 Last Calib.: 2012.11.27  
 Start Time: 19:08:32 End Time: 04:33:42 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Fair blow . 2 - 5 1/2". 12 ft. of fill on btm. Slid tool 10 ft.  
 IS: No blow .  
 FF: Weak blow . 1/2 - 3 1/2".  
 FS: No blow .



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
65.00	OCWM 6%o 32%w 62% m	0.32
0.00	Rw .28 ohms @ 38deg	0.00
0.00	180 ft.of GIP	0.00

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ares Energy, LTD  
405 N. Marienfeld, Ste.250  
Midland Tx.79701  
ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
Job Ticket: 49737      **DST#: 1**  
Test Start: 2012.11.26 @ 19:03:52

**Tool Information**

Drill Pipe:	Length: 3520.00 ft	Diameter: 3.80 inches	Volume: 49.38 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 49.98 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3652.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			3625.00	
Shut in tool	5.00			3630.00	
HMV	5.00			3635.00	
Jars	5.00			3640.00	
Safety Joint	3.00			3643.00	
Packer	4.00			3647.00	28.00      Bottom Of Top Packer
Packer	5.00			3652.00	
Stubb	1.00			3653.00	
Recorder	0.00	8370	Inside	3653.00	
Recorder	0.00	8352	Outside	3653.00	
Perforations	8.00			3661.00	
Bullnose	5.00			3666.00	14.00      Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ares Energy, LTD

**14-25s-13w Stafford Ks.**

405 N. Marienfeld, Ste.250  
Midland Tx.79701

**Lewis #14-7**

Job Ticket: 49737

**DST#: 1**

ATTN: Justin Carter

Test Start: 2012.11.26 @ 19:03:52

## 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:

49000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OCWM 6%o 32%w 62%m	0.320
0.00	Rw .28 ohms @ 38deg	0.000
0.00	180 ft.of GIP	0.000

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

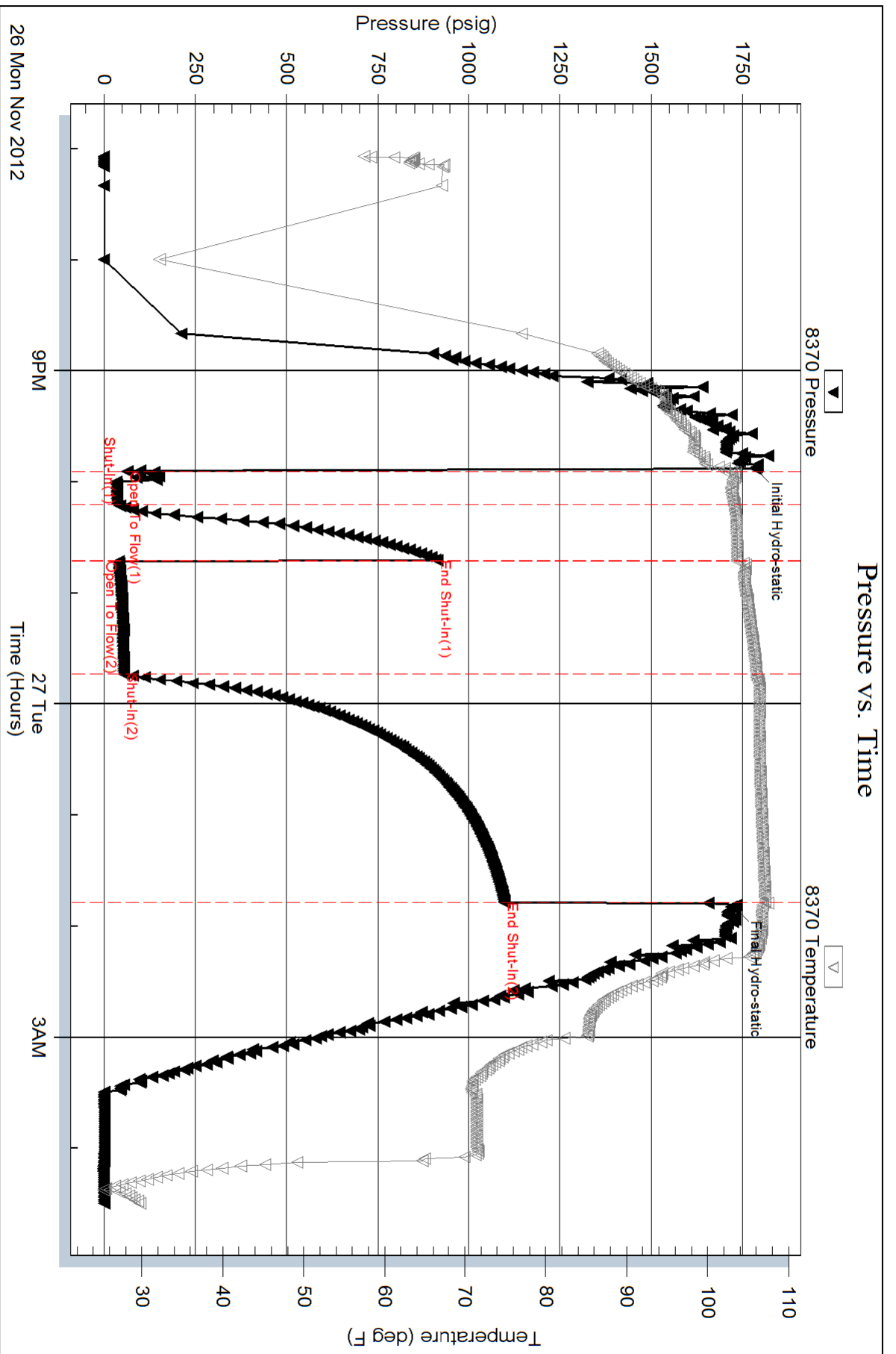
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

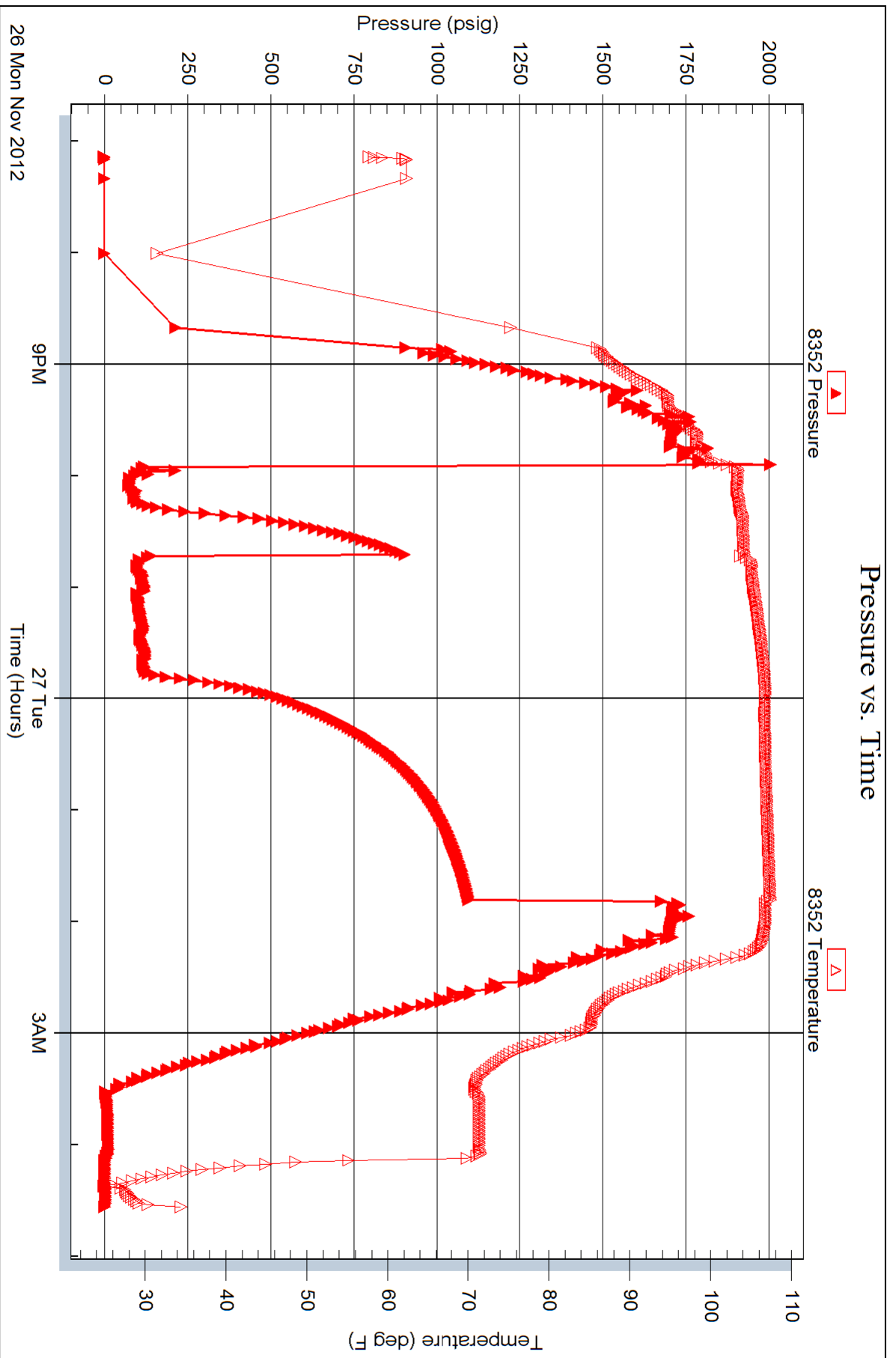


Serial #: 8352

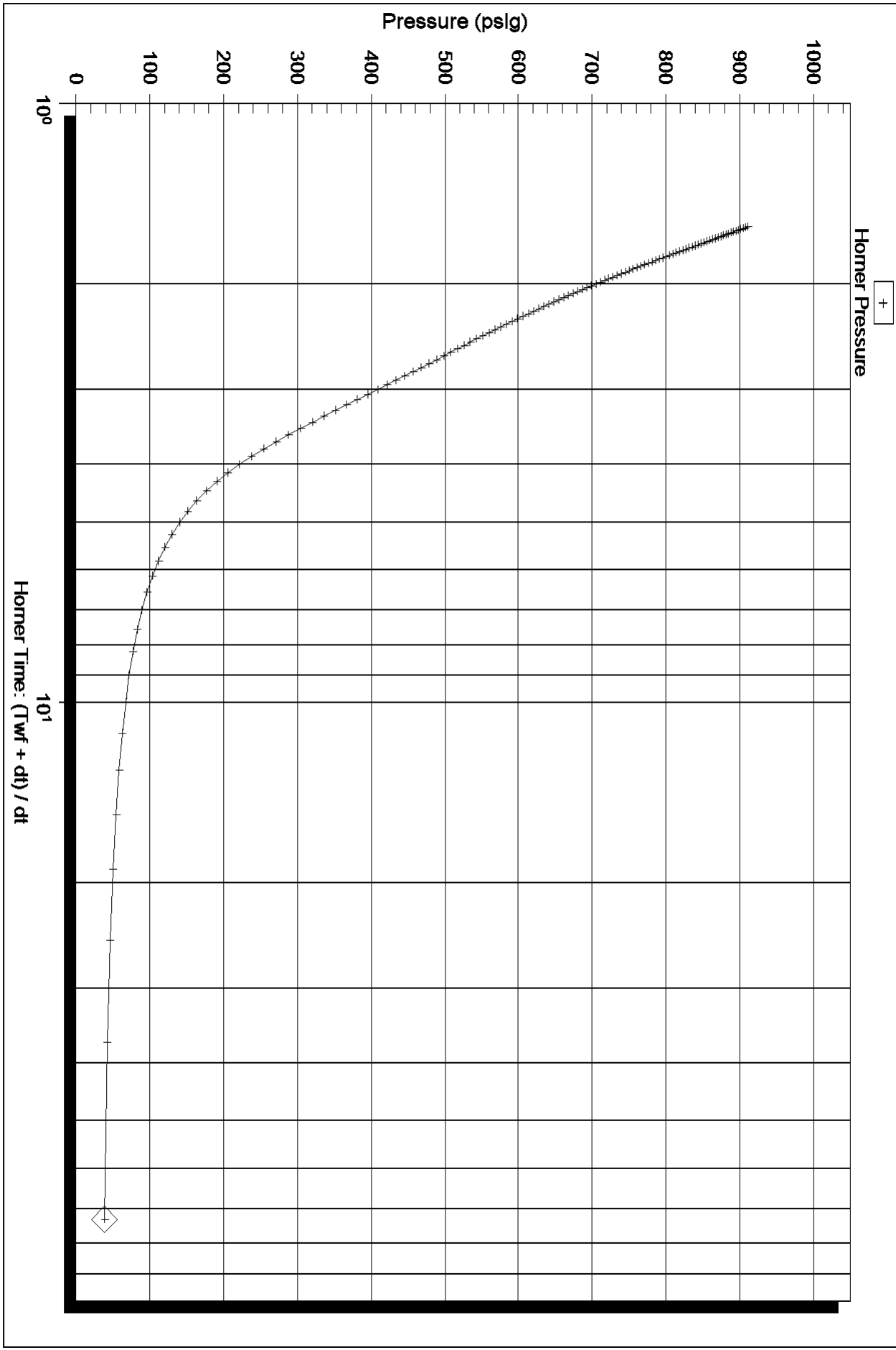
Outside Ares Energy, LTD

Lewis #14-7

DST Test Number: 1



# Horner Plot



Serial Number: 8370 (Inside)

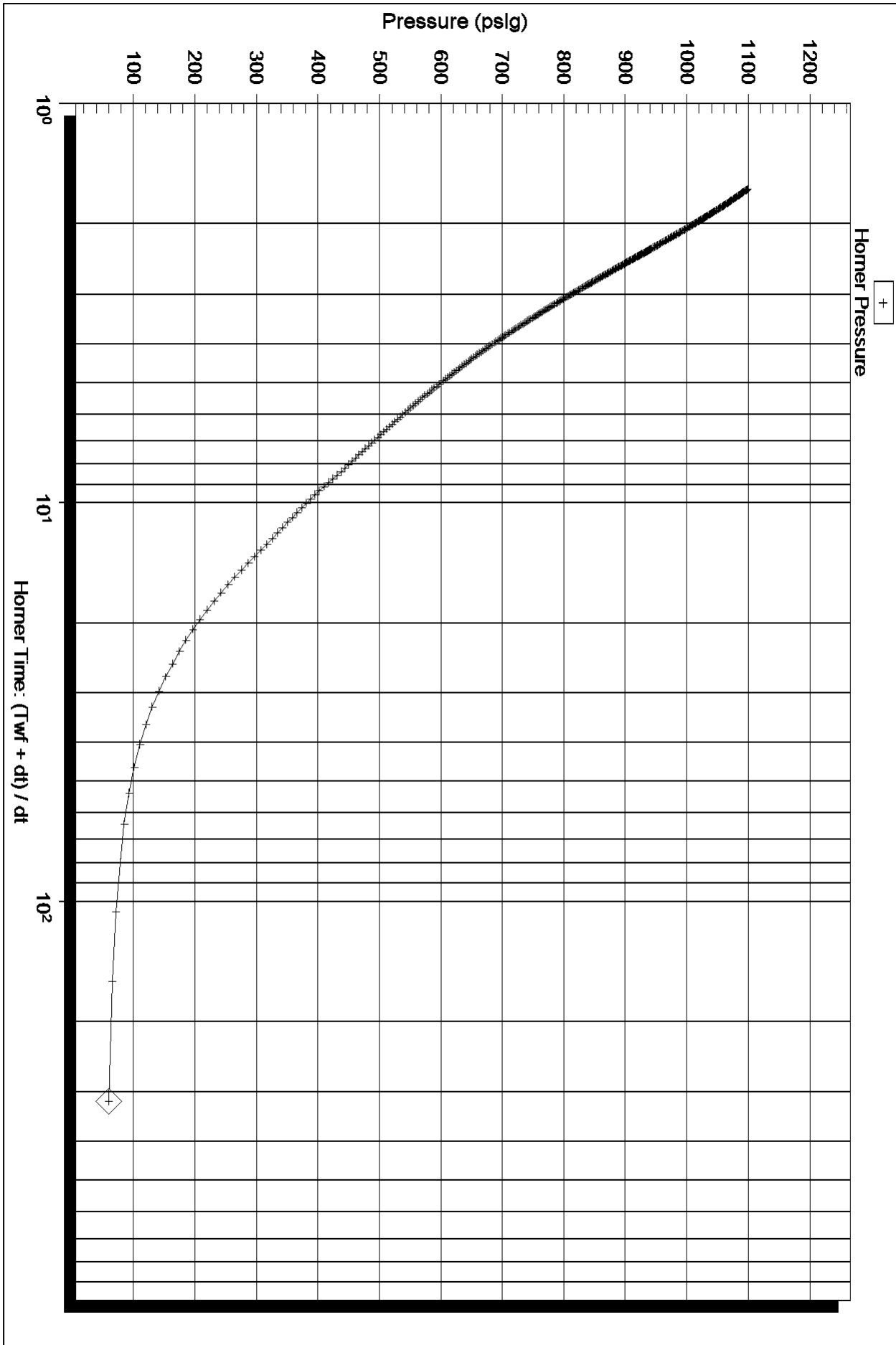
P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1



# Horner Plot



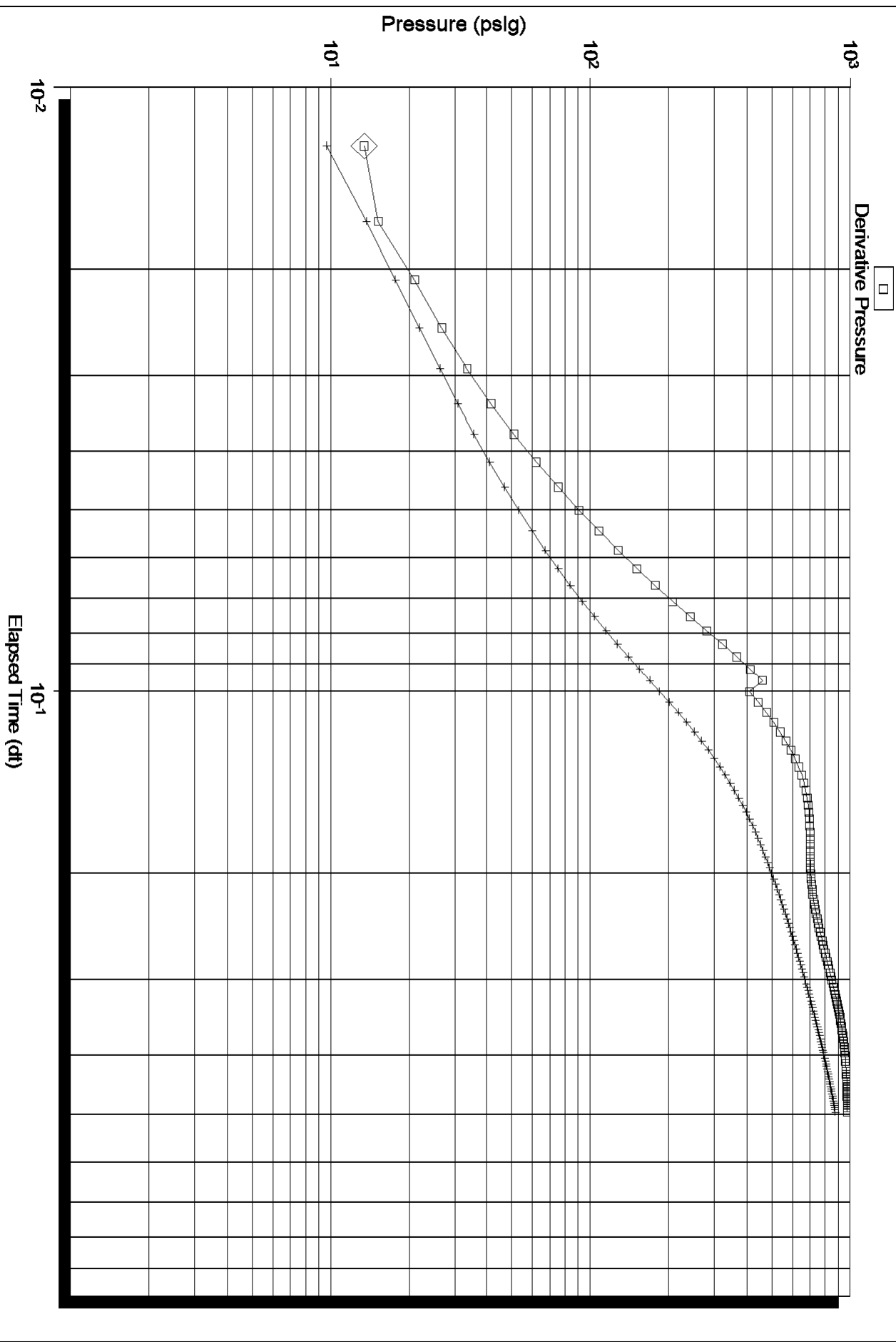
Serial Number: 8370 (Inside)

P\* :

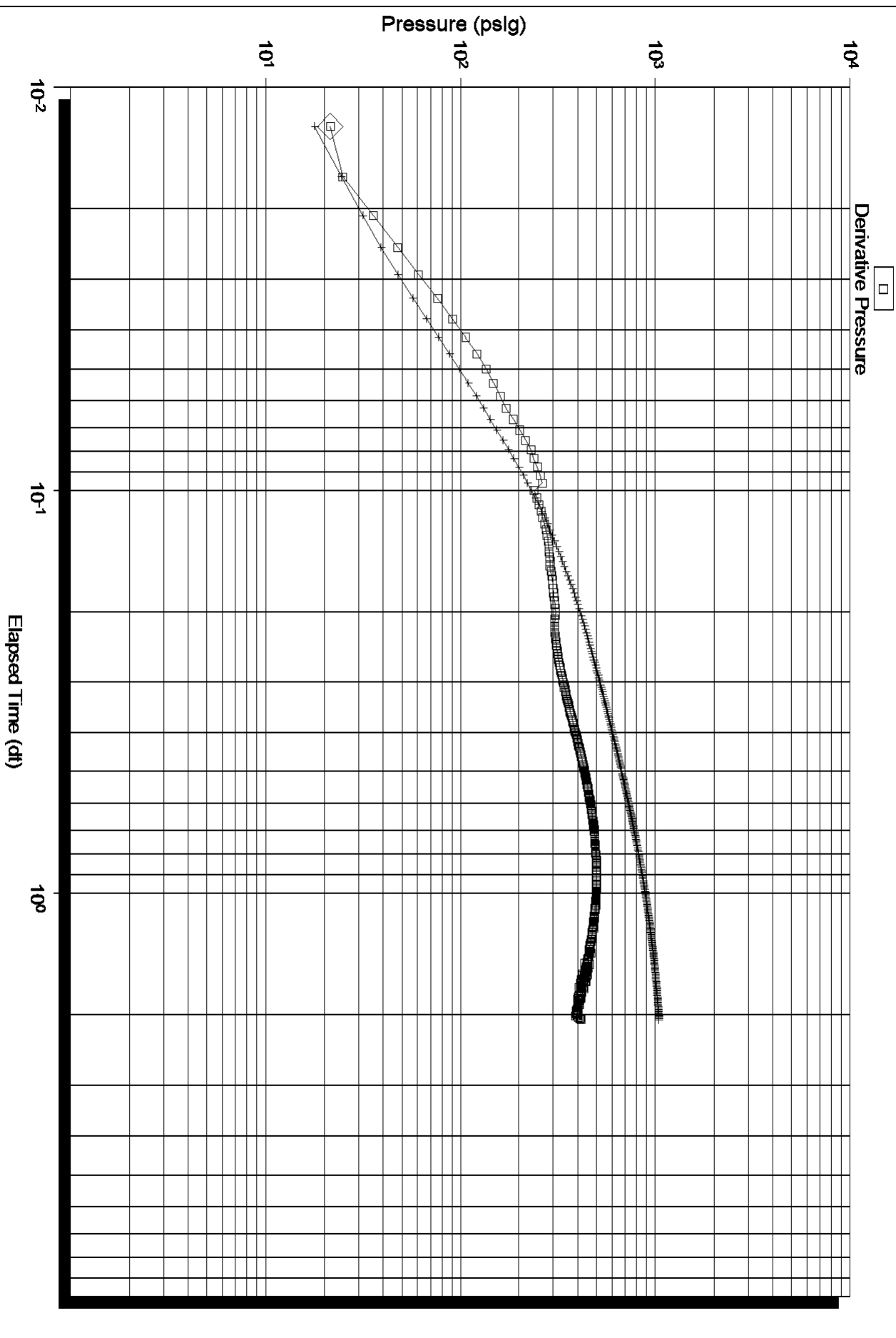
Slope (m) : kpa/log cycle

Flow Cycle: 2

# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Ares Energy,LTD**

405 N. Marienfeld,Ste.250  
Midland Tx.79701

ATTN: Justin Carter

### **Lewis #14-7**

#### **14-25s-13w Stafford Ks.**

Start Date: 2012.11.28 @ 04:25:07

End Date: 2012.11.28 @ 13:04:37

Job Ticket #: 49738                      DST #: 2

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

Printed: 2012.11.28 @ 14:12:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ares Energy, LTD  
 405 N. Marienfeld, Ste.250  
 Midland Tx.79701  
 ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
 Job Ticket: 49738 **DST#: 2**  
 Test Start: 2012.11.28 @ 04:25:07

## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:06:07  
 Time Test Ended: 13:04:37  
 Interval: **3836.00 ft (KB) To 3860.00 ft (KB) (TVD)**  
 Total Depth: 3860.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Gary Pevoteaux  
 Unit No: 56  
 Reference Elevations: 1926.00 ft (KB)  
 1918.00 ft (CF)  
 KB to GR/CF: 8.00 ft

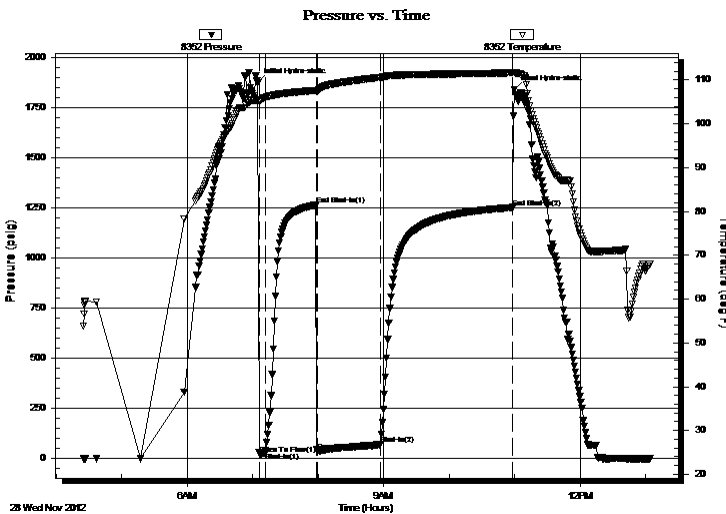
## Serial #: 8352

Outside

Press @ Run Depth: 70.97 psig @ 3837.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28  
 Start Time: 04:25:12 End Time: 13:04:37 Time On Btm: 2012.11.28 @ 07:04:52  
 Time Off Btm: 2012.11.28 @ 10:59:52

TEST COMMENT: IF: Strong blow . B.O.B. in 8 mins.  
 IS: No blow .  
 FF: Strong blow . B.O.B. in 20 secs.  
 FS: Weak blow . 1/4 - 1/2".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1878.15	105.51	Initial Hydro-static
2	23.71	105.17	Open To Flow (1)
7	28.96	105.97	Shut-In(1)
54	1266.28	107.66	End Shut-In(1)
55	38.09	107.37	Open To Flow (2)
112	70.97	110.59	Shut-In(2)
234	1253.38	111.65	End Shut-In(2)
235	1842.20	111.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
98.00	GOCWM 20%g 24%o 25%w 31%m	0.48
0.00	Rw .3 ohms @43 deg	0.00
32.00	CGO 7%g 93%o	0.23
0.00	2520 ft.of 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**

Ares Energy, LTD  
405 N. Marienfeld, Ste. 250  
Midland Tx. 79701  
ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
Job Ticket: 49738      **DST#: 2**  
Test Start: 2012.11.28 @ 04:25:07

**Tool Information**

Drill Pipe:	Length: 3711.00 ft	Diameter: 3.80 inches	Volume: 52.06 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 52.66 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3836.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			3809.00	
Shut in tool	5.00			3814.00	
HMV	5.00			3819.00	
Jars	5.00			3824.00	
Safety Joint	3.00			3827.00	
Packer	4.00			3831.00	28.00      Bottom Of Top Packer
Packer	5.00			3836.00	
Stubb	1.00			3837.00	
Recorder	0.00	8370	Inside	3837.00	
Recorder	0.00	8352	Outside	3837.00	
Perforations	18.00			3855.00	
Bullnose	5.00			3860.00	24.00      Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ares Energy, LTD

**14-25s-13w Stafford Ks.**

405 N. Marienfeld, Ste.250  
Midland Tx.79701

**Lewis #14-7**

Job Ticket: 49738

**DST#: 2**

ATTN: Justin Carter

Test Start: 2012.11.28 @ 04:25:07

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
98.00	GOCWM 20%g 24%o 25%w 31%m	0.482
0.00	Rw .3 ohms @43 deg	0.000
32.00	CGO 7%g 93%o	0.230
0.00	2520 ft.of GIP	0.000

Total Length: 130.00 ft

Total Volume: 0.712 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

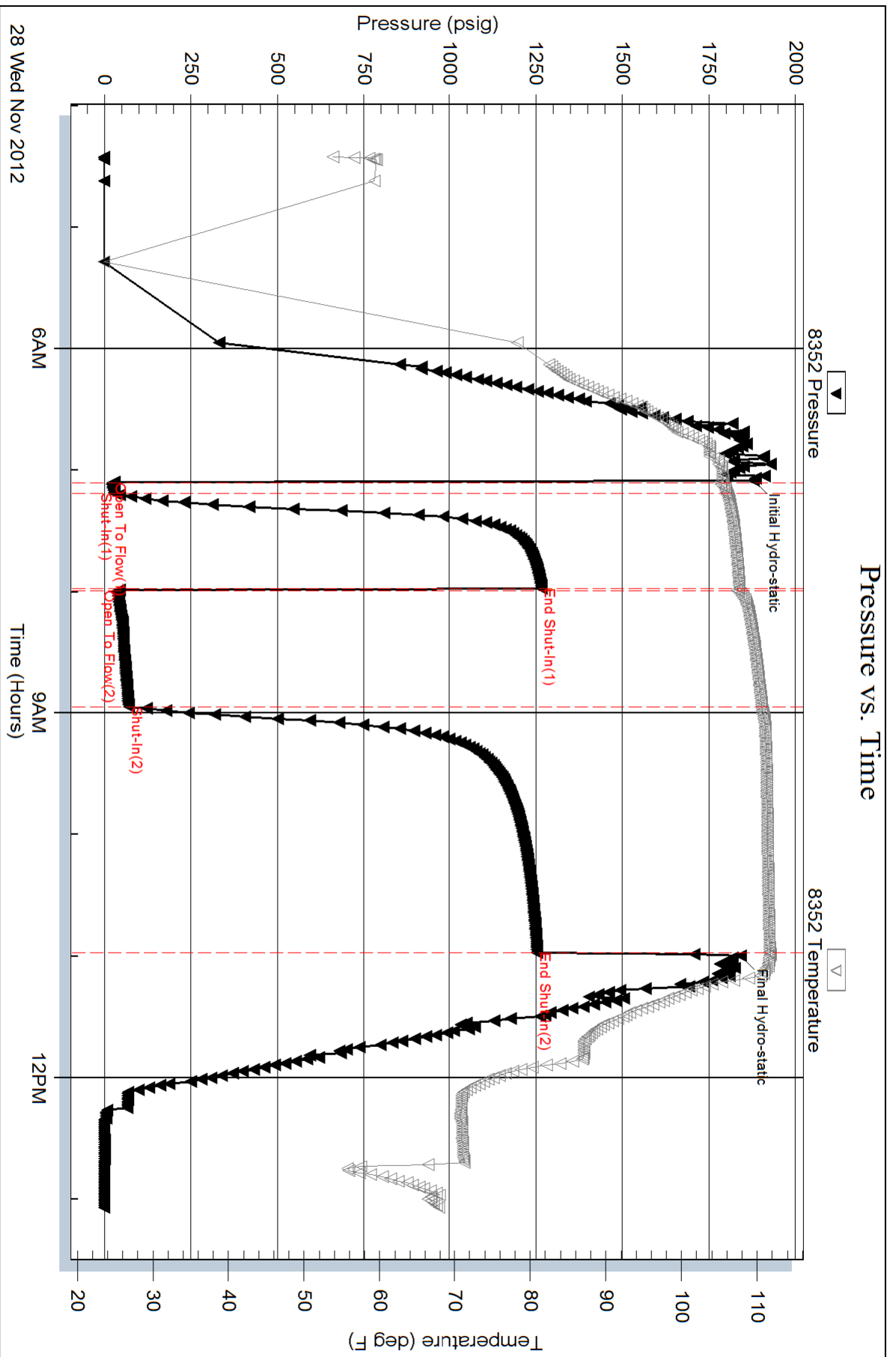
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





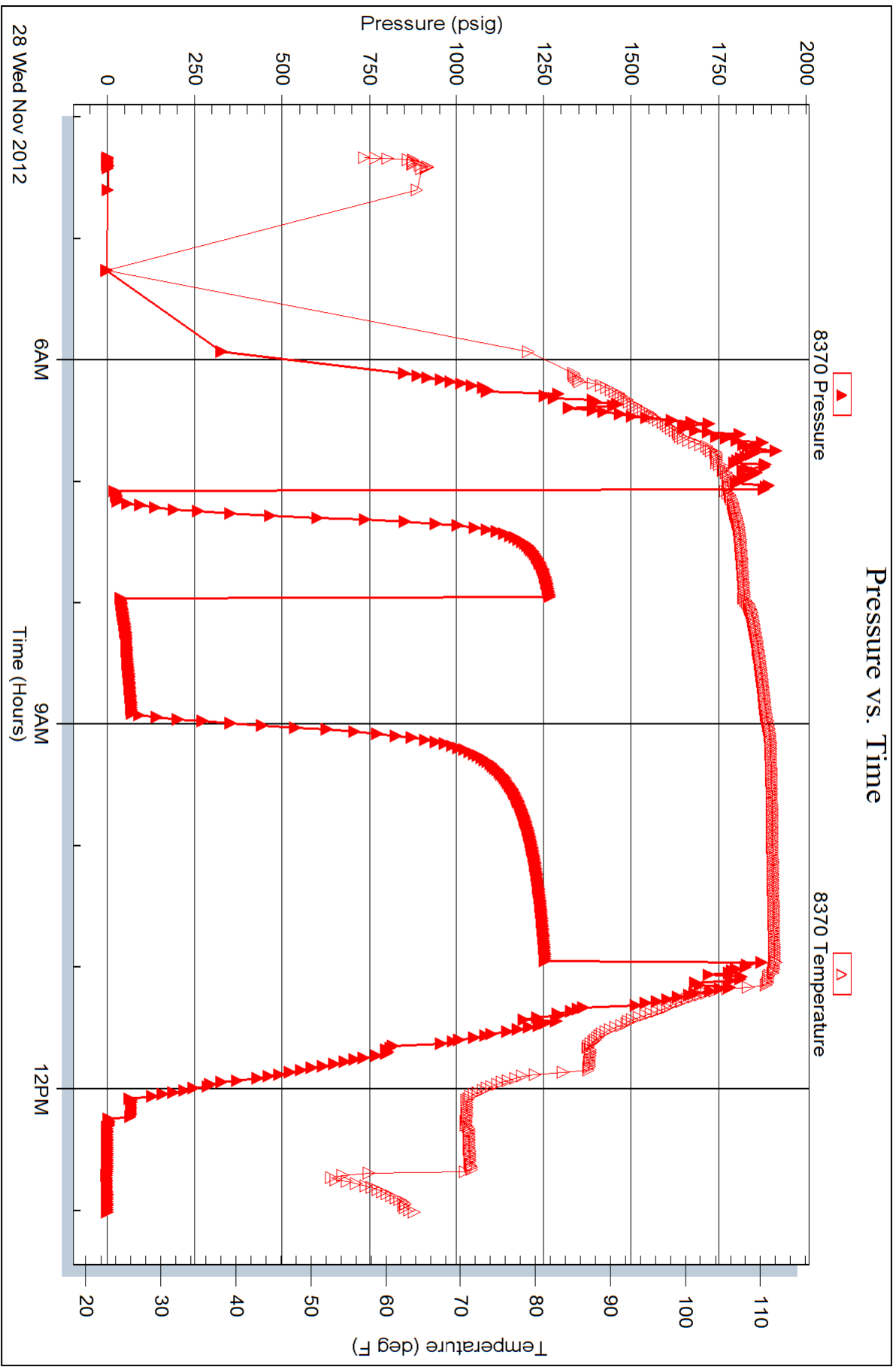
Serial #: 8370

Inside

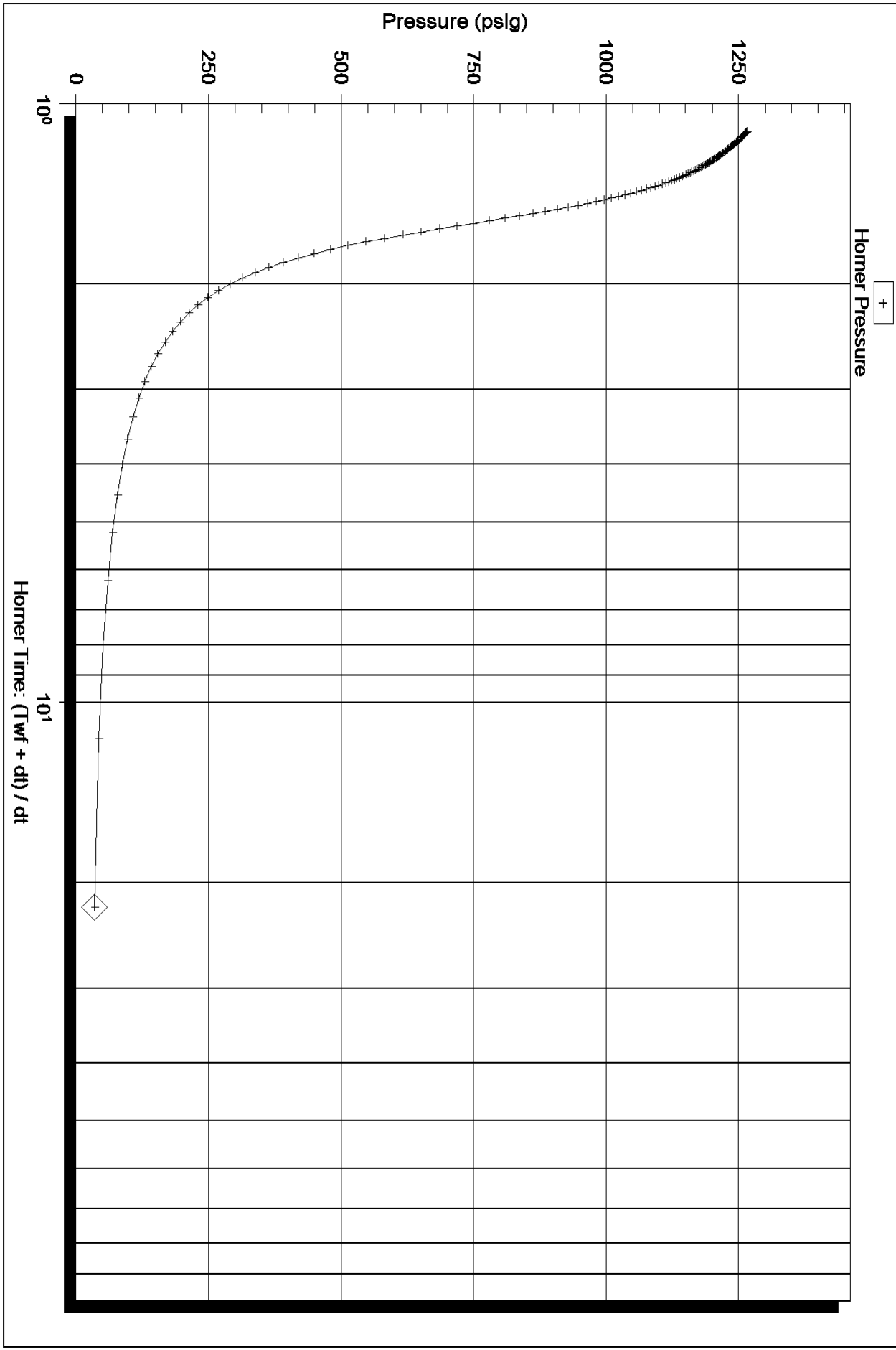
Ares Energy, LTD

Lew is #14-7

DST Test Number: 2



# Horner Plot



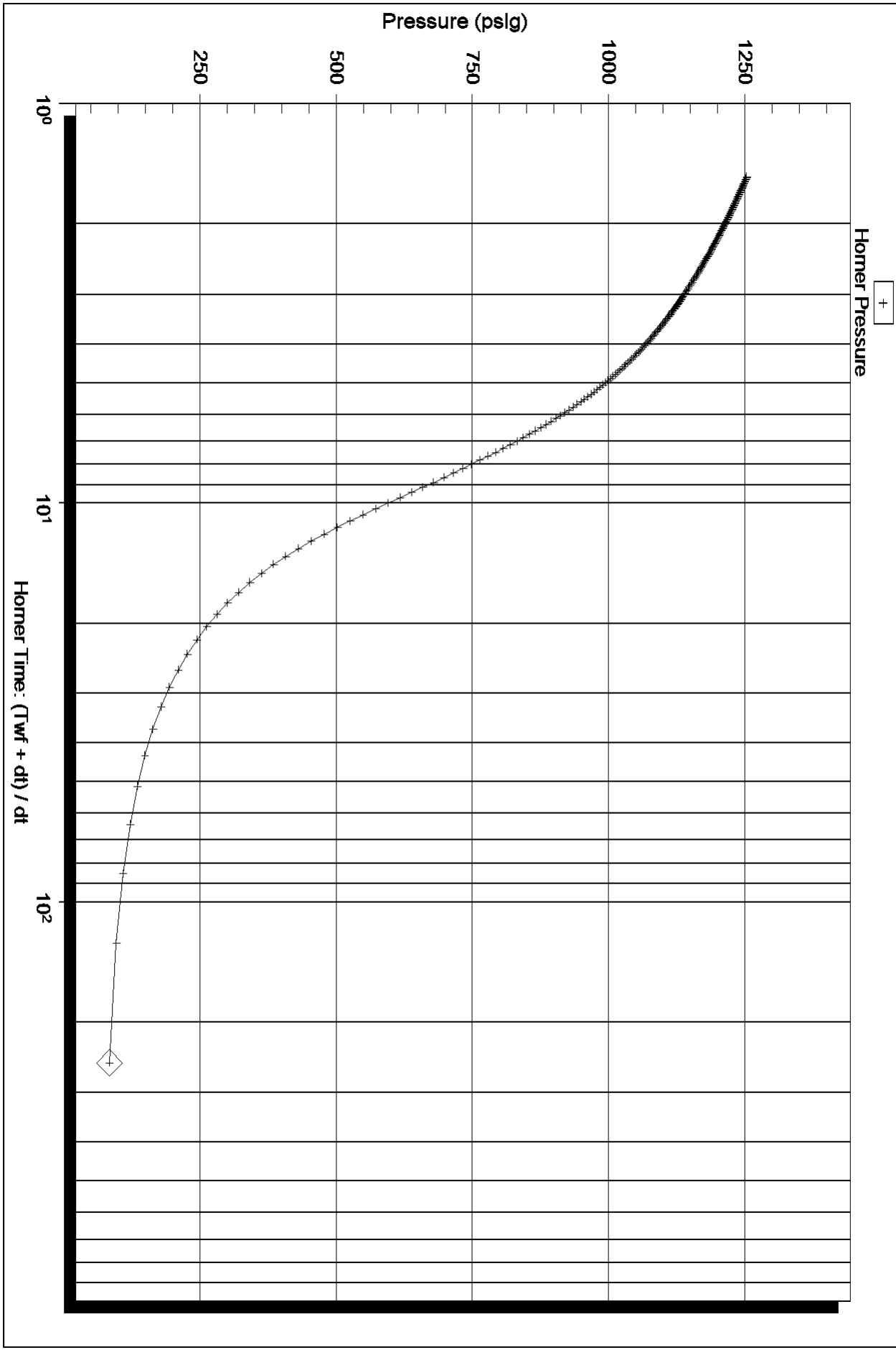
Serial Number: 8352 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

# Horner Plot



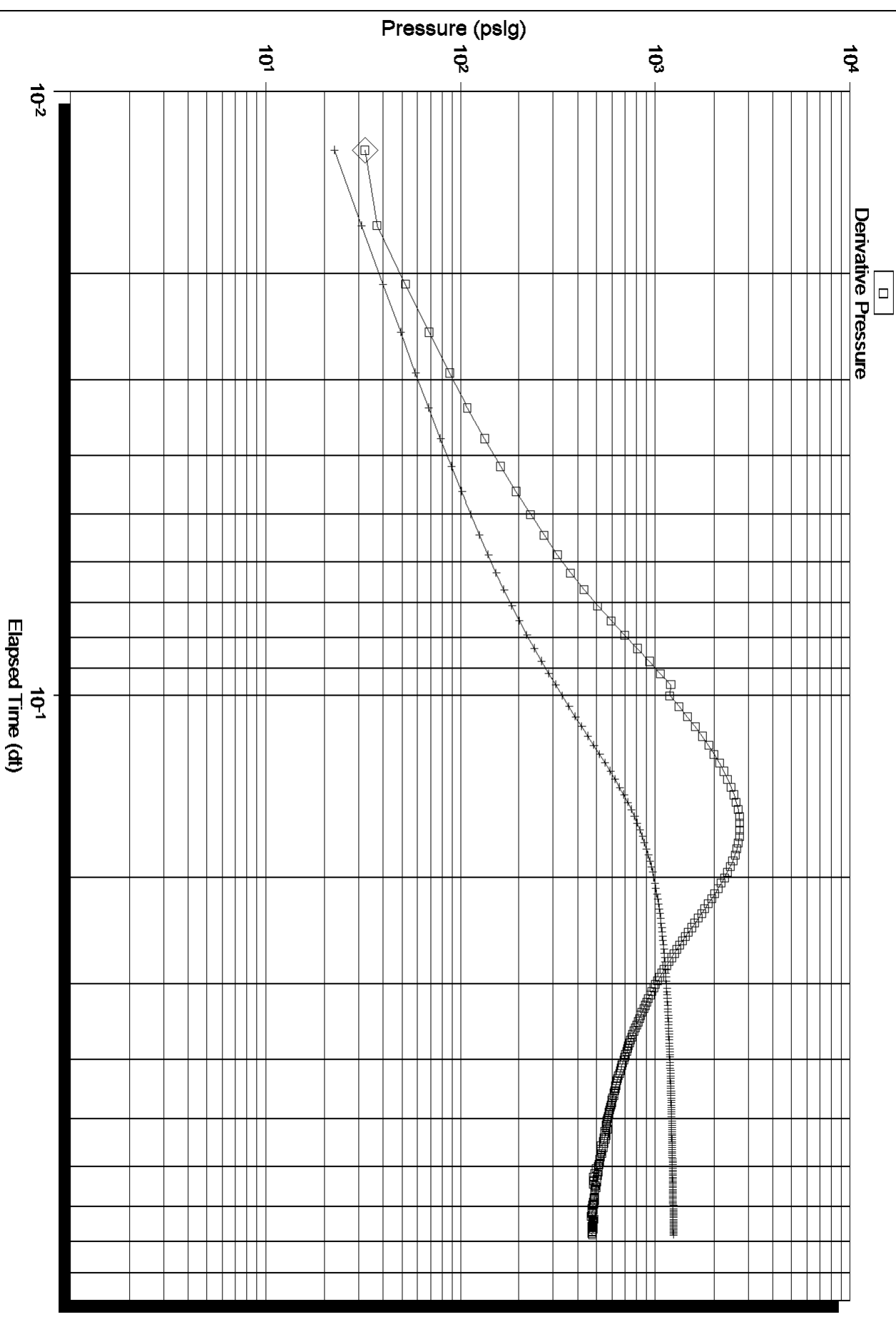
Serial Number: 8352 (Outside)

P\* :

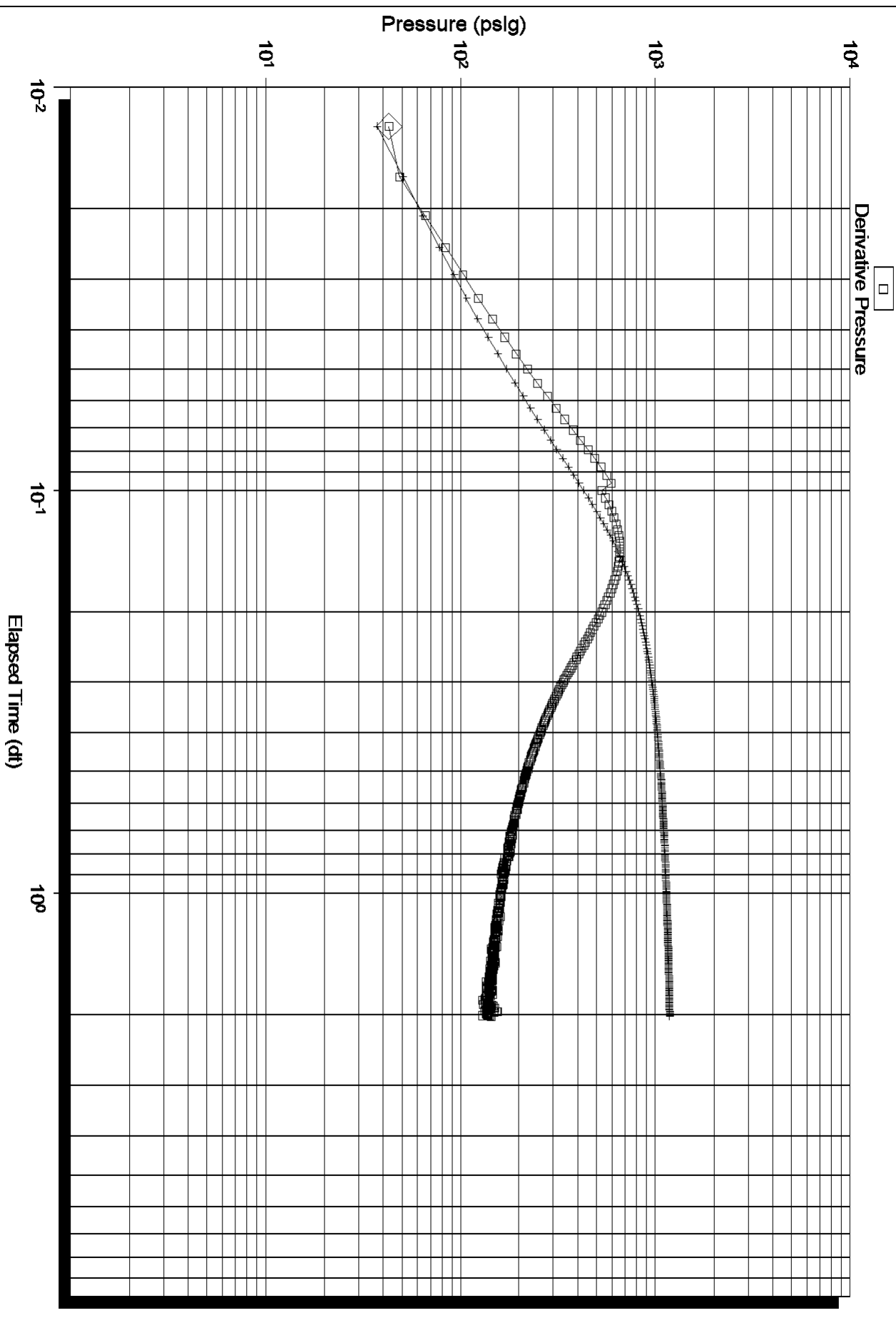
Slope (m) : kpa/log cycle

Flow Cycle: 2

# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Ares Energy,LTD**

405 N. Marienfeld,Ste.250  
Midland Tx.79701

ATTN: Justin Carter

### **Lewis #14-7**

#### **14-25s-13w Stafford Ks.**

Start Date: 2012.11.28 @ 22:29:59

End Date: 2012.11.29 @ 07:28:14

Job Ticket #: 49739                      DST #: 3

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

Printed: 2012.11.29 @ 07:58:19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ares Energy, LTD  
 405 N. Marienfeld, Ste.250  
 Midland Tx.79701  
 ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
 Job Ticket: 49739 **DST#: 3**  
 Test Start: 2012.11.28 @ 22:29:59

## GENERAL INFORMATION:

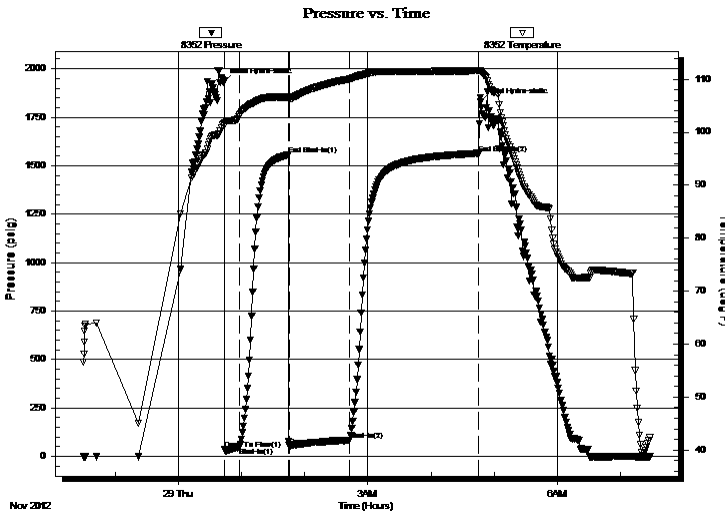
Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:43:59 Tester: Gary Pevoteaux  
 Time Test Ended: 07:28:14 Unit No: 56  
 Interval: **3876.00 ft (KB) To 3897.00 ft (KB) (TVD)** Reference Elevations: 1926.00 ft (KB)  
 Total Depth: 3897.00 ft (KB) (TVD) 1918.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8352 Outside

Press @ Run Depth: 84.56 psig @ 3877.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.28 End Date: 2012.11.29 Last Calib.: 2012.11.29  
 Start Time: 22:30:04 End Time: 07:28:14 Time On Btm: 2012.11.29 @ 00:42:59  
 Time Off Btm: 2012.11.29 @ 04:46:59

**TEST COMMENT:** IF: Strong blow . B.O.B. in 4 1/2 mins.  
 IS: No blow .  
 FF: Strong blow . B.O.B. in 5 secs.  
 FS: Weak blow . 1/4 - 1/2".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.83	101.70	Initial Hydro-static
1	35.08	101.25	Open To Flow (1)
16	46.90	103.20	Shut-In(1)
62	1556.33	106.60	End Shut-In(1)
63	54.33	106.34	Open To Flow (2)
120	84.56	110.05	Shut-In(2)
243	1563.99	111.58	End Shut-In(2)
244	1827.76	111.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 31%g 24%m 45%o	0.30
105.00	CGO 27%g 73%o	0.91
35.00	OCGM 12%o 38%g 50%m	0.49
0.00	2450 ft.of 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**

Ares Energy, LTD  
405 N. Marienfeld, Ste.250  
Midland Tx.79701  
ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
Job Ticket: 49739      **DST#: 3**  
Test Start: 2012.11.28 @ 22:29:59

**Tool Information**

Drill Pipe:	Length: 3743.00 ft	Diameter: 3.80 inches	Volume: 52.50 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	73000.00 lb
			<u>Total Volume: 53.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3876.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	49.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			3849.00	
Shut in tool	5.00			3854.00	
HMV	5.00			3859.00	
Jars	5.00			3864.00	
Safety Joint	3.00			3867.00	
Packer	4.00			3871.00	28.00      Bottom Of Top Packer
Packer	5.00			3876.00	
Stubb	1.00			3877.00	
Recorder	0.00	8370	Inside	3877.00	
Recorder	0.00	8352	Outside	3877.00	
Perforations	15.00			3892.00	
Bullnose	5.00			3897.00	21.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ares Energy, LTD

**14-25s-13w Stafford Ks.**

405 N. Marienfeld, Ste.250  
Midland Tx.79701

**Lewis #14-7**

Job Ticket: 49739

**DST#: 3**

ATTN: Justin Carter

Test Start: 2012.11.28 @ 22:29:59

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21.3 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9100 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GMCO 31%g 24%m 45%o	0.295
105.00	CGO 27%g 73%o	0.908
35.00	OCGM 12%o 38%g 50%m	0.491
0.00	2450 ft.of GIP	0.000

Total Length: 200.00 ft

Total Volume: 1.694 bbl

Num Fluid Samples: 0

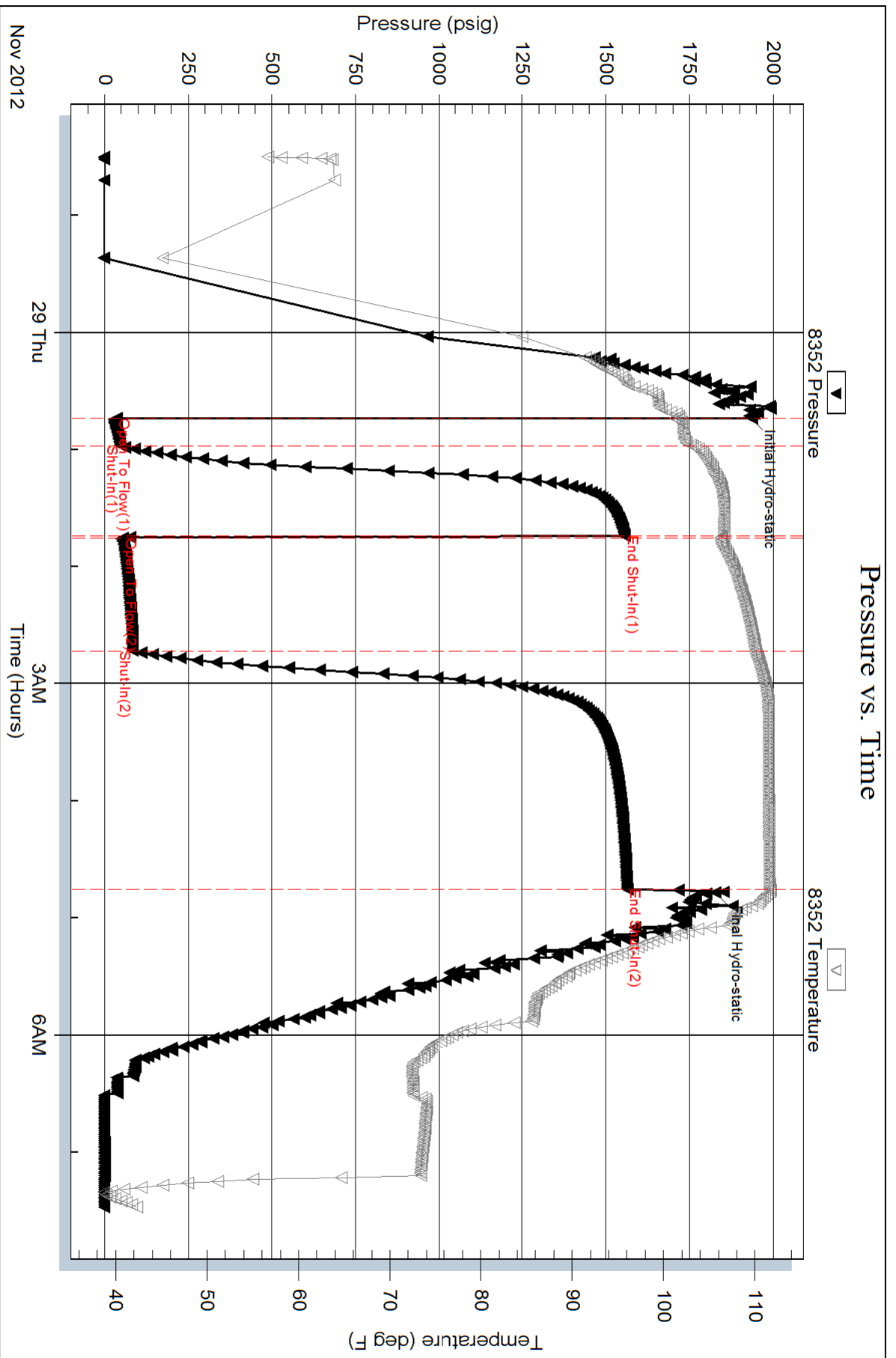
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



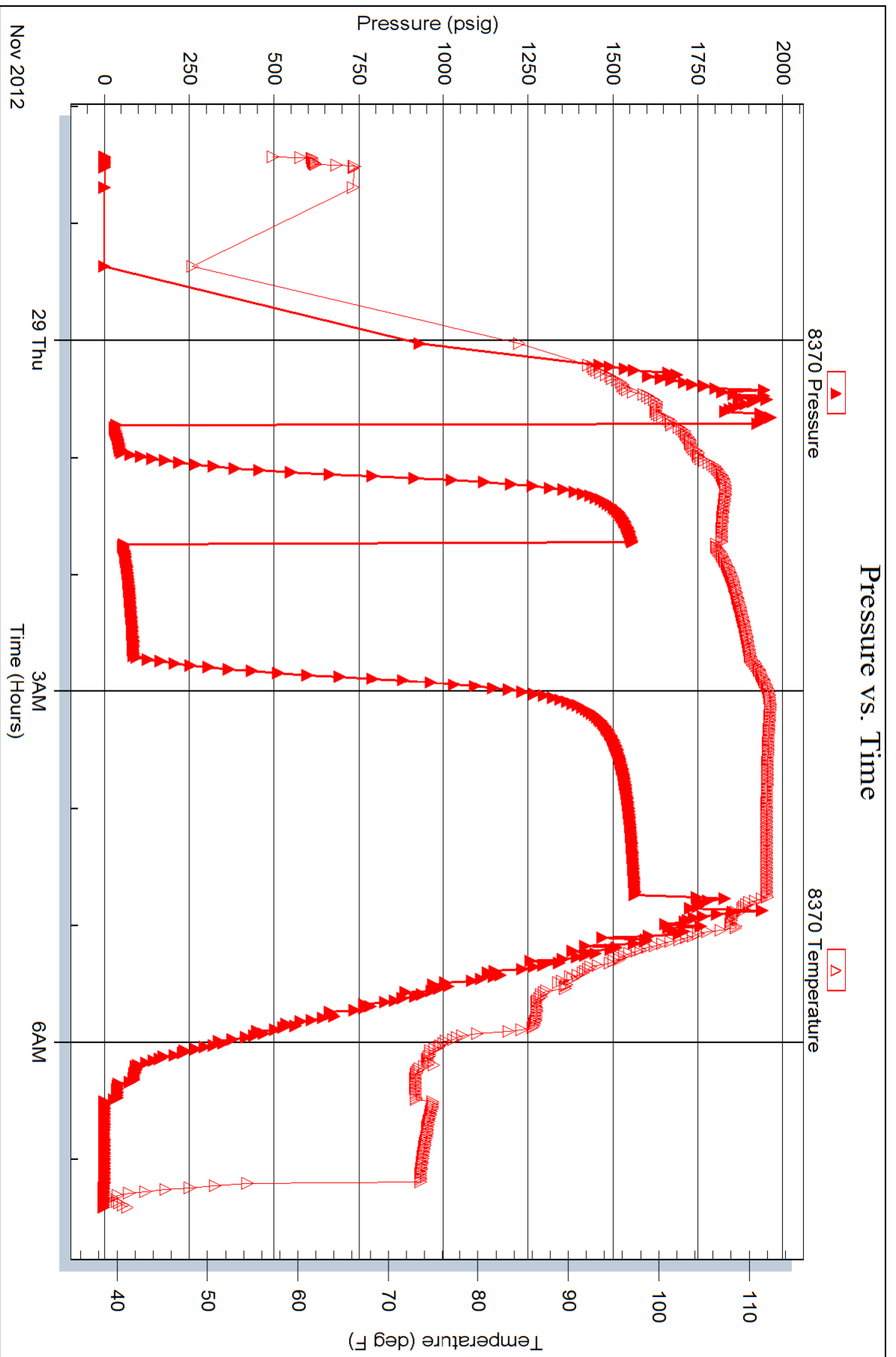
Serial #: 8370

Inside

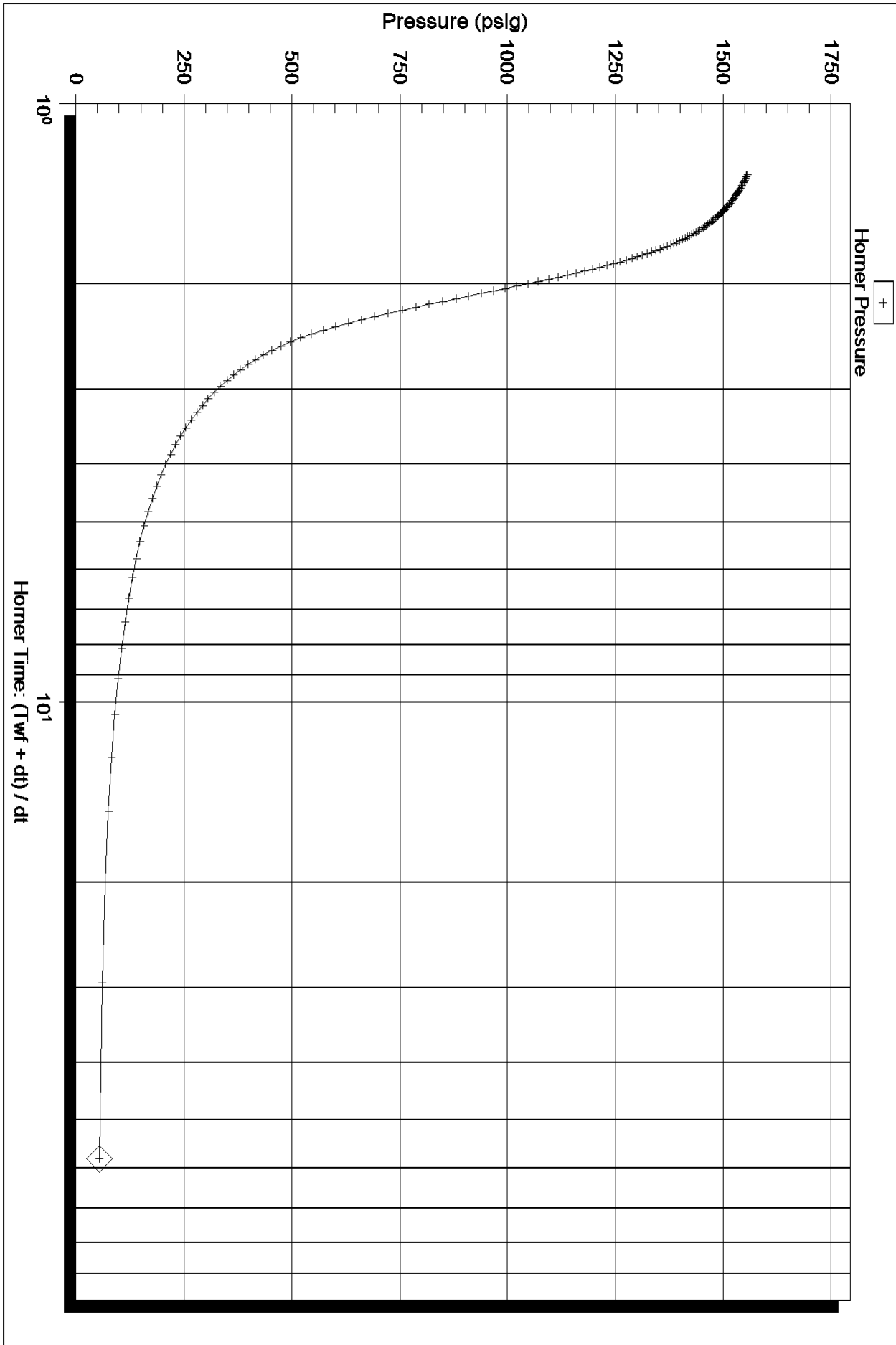
Ares Energy, LTD

Lew is #14-7

DST Test Number: 3



# Horner Plot



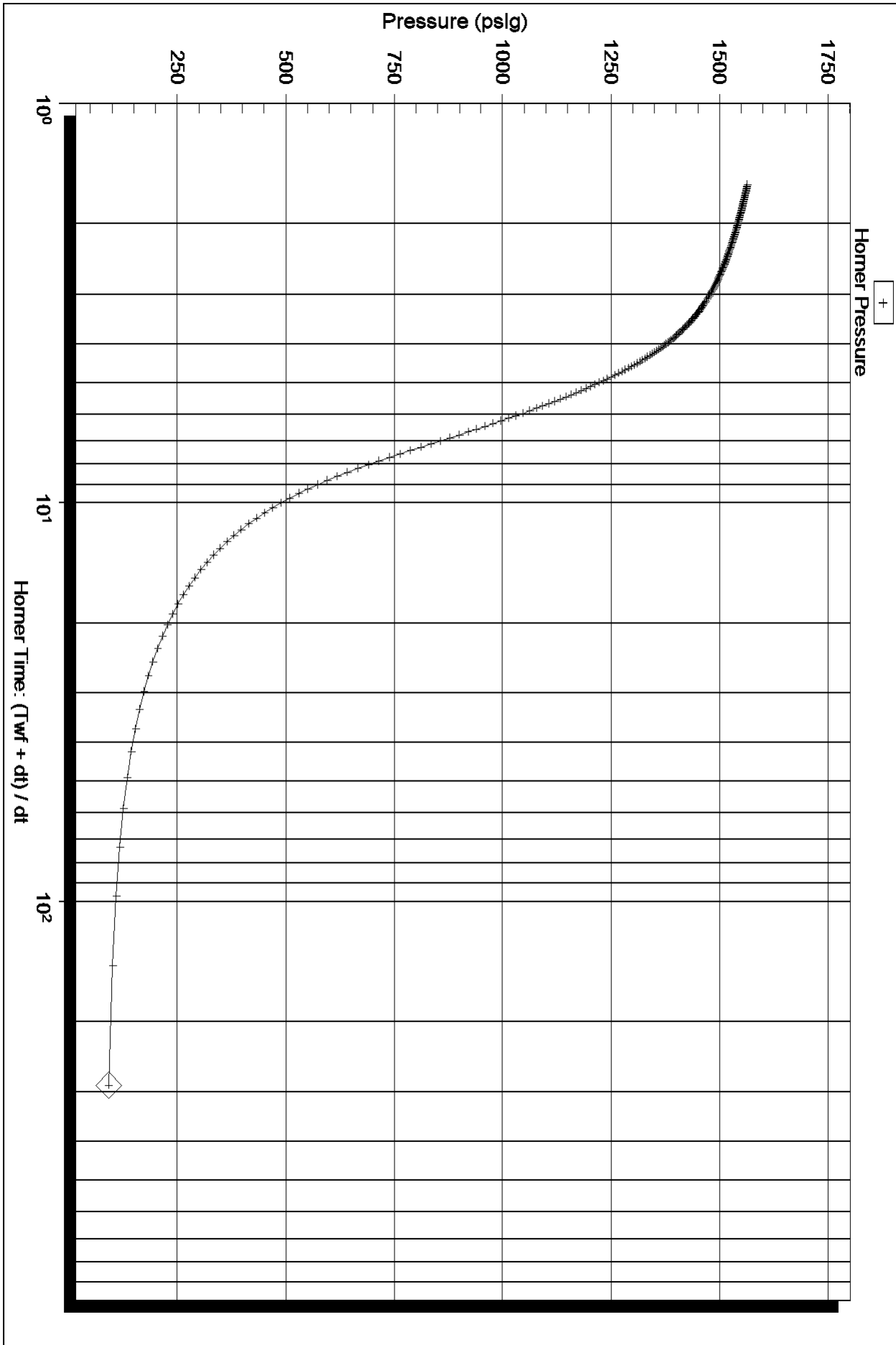
Serial Number: 8352 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

# Horner Plot



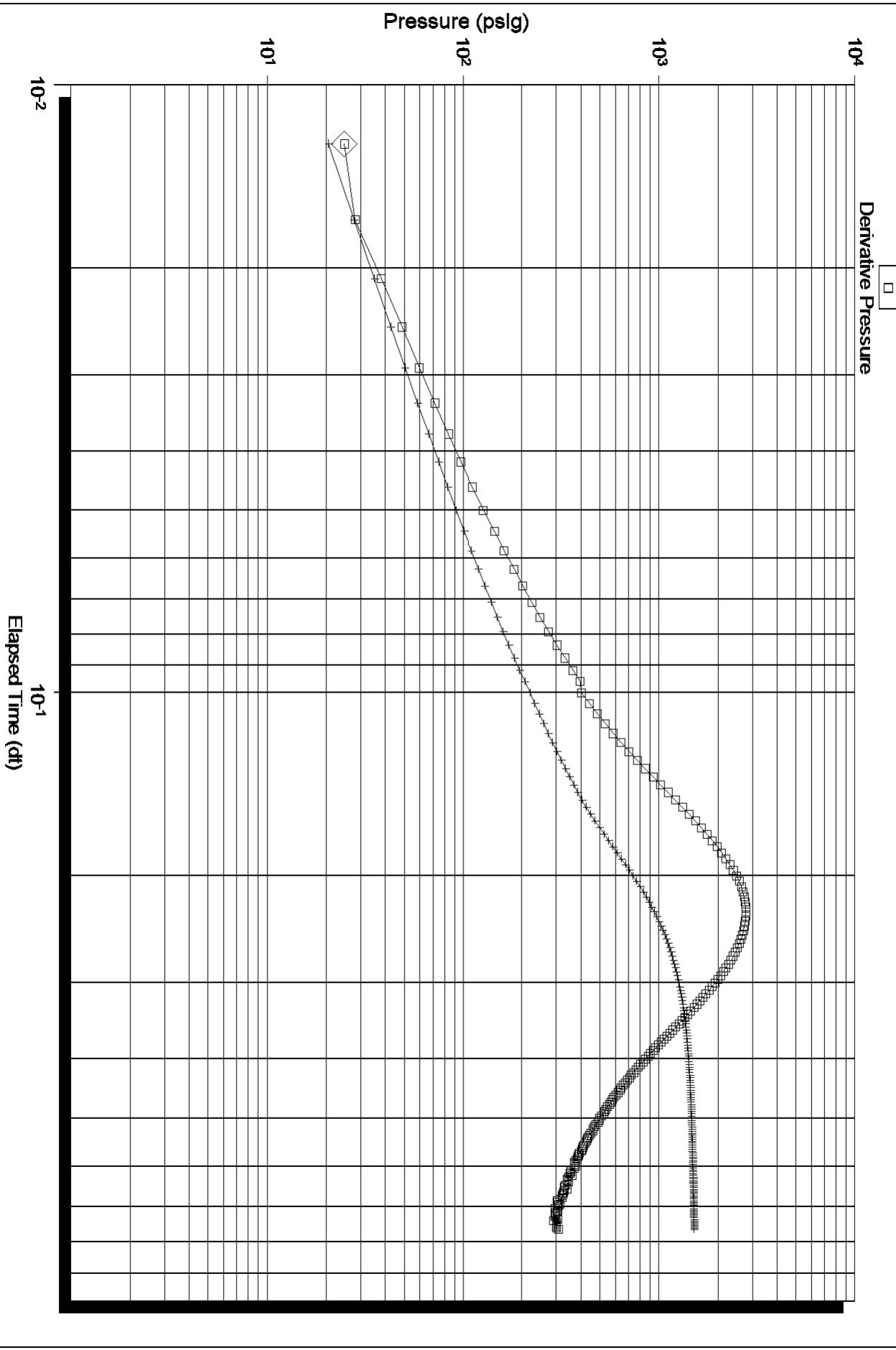
Serial Number: 8352 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

# Log-Log and Pseudo-Derivative

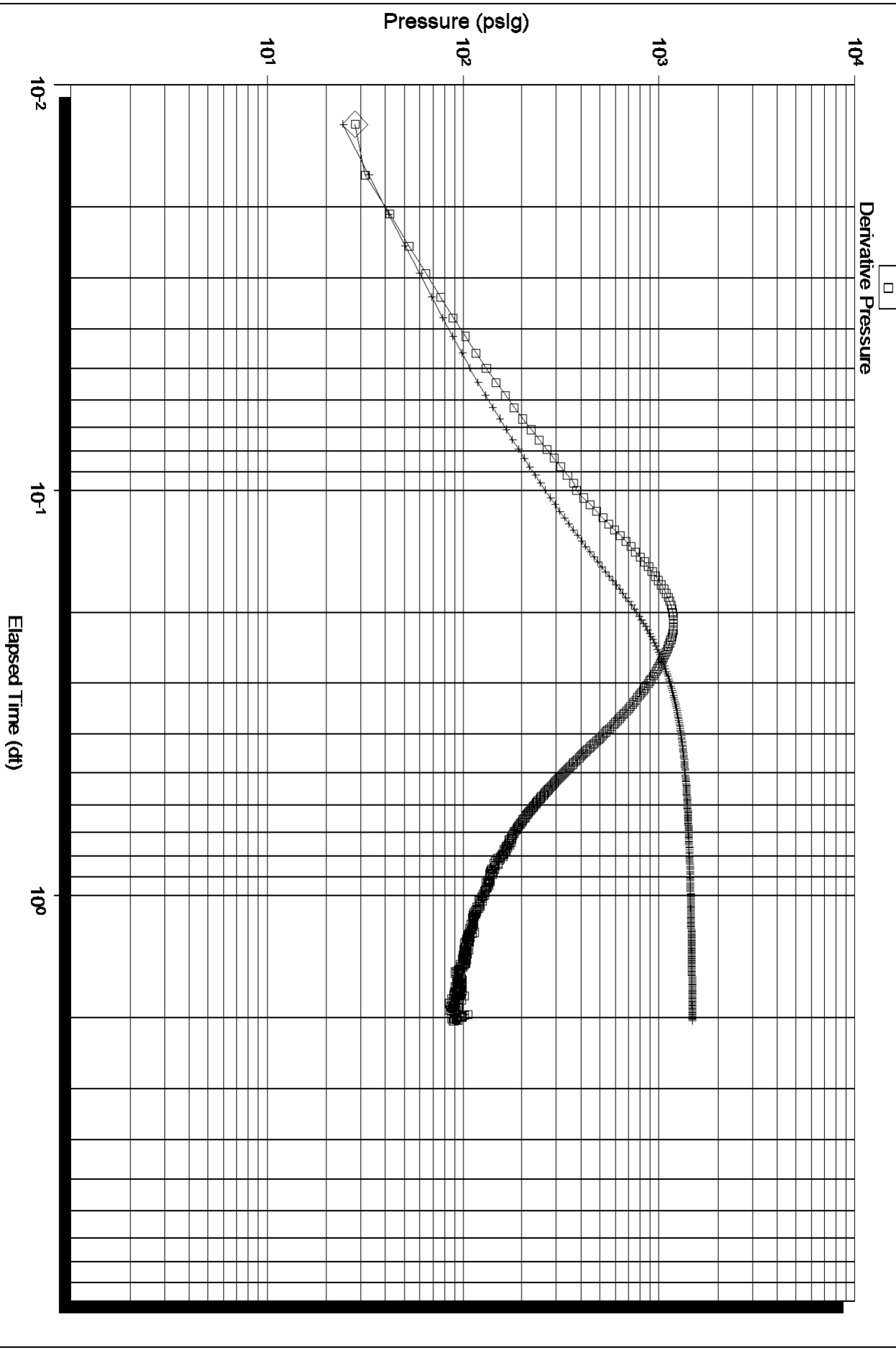


Serial Number: 8352 (Outside)

Flow Cycle: 1



# Log-Log and Pseudo-Derivative



Serial Number: 8352 (Outside)

Flow Cycle: 2



## DRILL STEM TEST REPORT

Prepared For: **Ares Energy,LTD**

405 N. Marienfeld,Ste.250  
Midland Tx.79701

ATTN: Justin Carter

### **Lewis #14-7**

#### **14-25s-13w Stafford Ks.**

Start Date: 2012.11.30 @ 12:53:20

End Date: 2012.11.30 @ 20:03:35

Job Ticket #: 49740                      DST #: 4

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

Printed: 2012.11.30 @ 20:32:36



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ares Energy, LTD  
 405 N. Marienfeld, Ste.250  
 Midland Tx.79701  
 ATTN: Justin Carter

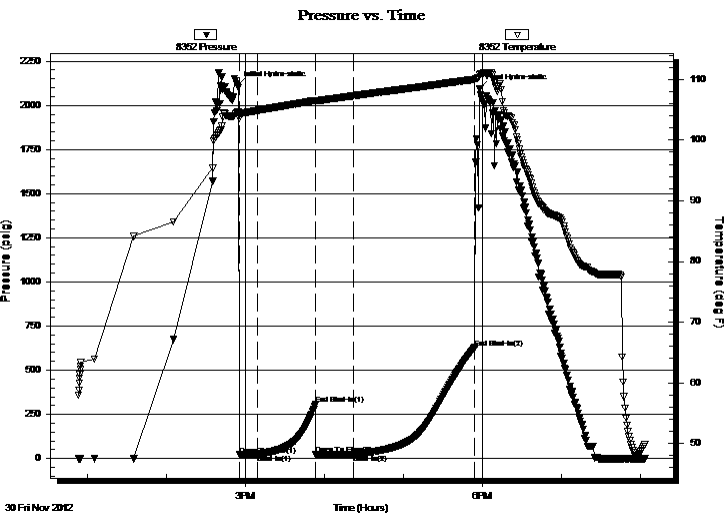
**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
 Job Ticket: 49740      **DST#: 4**  
 Test Start: 2012.11.30 @ 12:53:20

## GENERAL INFORMATION:

Formation: **Simpson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 14:55:50  
 Tester: Gary Pevoteaux  
 Time Test Ended: 20:03:35  
 Unit No: 56  
 Interval: **4146.00 ft (KB) To 4192.00 ft (KB) (TVD)**  
 Reference Elevations: 1926.00 ft (KB)  
 Total Depth: 4192.00 ft (KB) (TVD) 1918.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

**Serial #: 8352 Outside**  
 Press @ Run Depth: 25.31 psig @ 4147.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.30 End Date: 2012.11.30 Last Calib.: 2012.11.30  
 Start Time: 12:53:25 End Time: 20:03:34 Time On Btm: 2012.11.30 @ 14:53:50  
 Time Off Btm: 2012.11.30 @ 17:57:50

**TEST COMMENT:** IF:Weak blow . 1/4 1/2" decreasing. Slid tool 3 - 4 ft.to btm.  
 IS:No blow .  
 FF:No blow .  
 FS:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.08	104.62	Initial Hydro-static
2	21.65	104.32	Open To Flow (1)
16	23.34	104.88	Shut-In(1)
60	305.34	106.55	End Shut-In(1)
60	23.99	106.33	Open To Flow (2)
89	25.31	107.31	Shut-In(2)
180	627.74	109.99	End Shut-In(2)
184	2095.70	110.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM <1%o 99%m (good oder)	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**

Ares Energy, LTD  
405 N. Marienfeld, Ste.250  
Midland Tx.79701  
ATTN: Justin Carter

**14-25s-13w Stafford Ks.**  
**Lewis #14-7**  
Job Ticket: 49740      **DST#: 4**  
Test Start: 2012.11.30 @ 12:53:20

**Tool Information**

Drill Pipe:	Length: 4026.00 ft	Diameter: 3.80 inches	Volume: 56.47 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	97000.00 lb
			<u>Total Volume: 57.07 bbl</u>	Tool Chased	4.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4146.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	74.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			4119.00	
Shut in tool	5.00			4124.00	
HMV	5.00			4129.00	
Jars	5.00			4134.00	
Safety Joint	3.00			4137.00	
Packer	4.00			4141.00	28.00      Bottom Of Top Packer
Packer	5.00			4146.00	
Stubb	1.00			4147.00	
Recorder	0.00	8370	Inside	4147.00	
Recorder	0.00	8352	Outside	4147.00	
Perforations	40.00			4187.00	
Bullnose	5.00			4192.00	46.00      Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ares Energy, LTD

**14-25s-13w Stafford Ks.**

405 N. Marienfeld, Ste. 250  
Midland Tx. 79701

**Lewis #14-7**

Job Ticket: 49740

**DST#: 4**

ATTN: Justin Carter

Test Start: 2012.11.30 @ 12:53:20

## 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:

11600 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11600.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	SOCM <1%o 99%m (good oder)	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

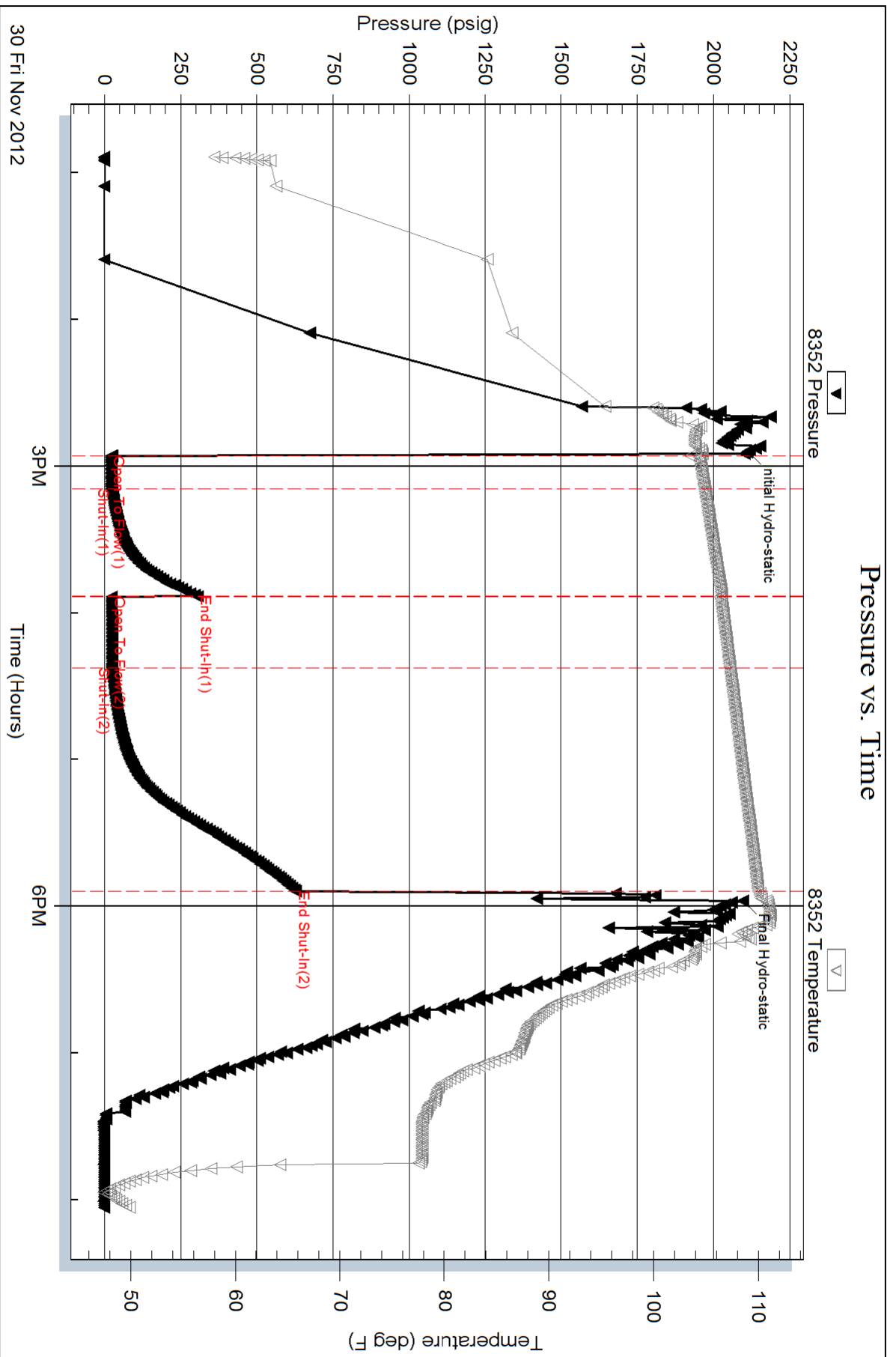
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



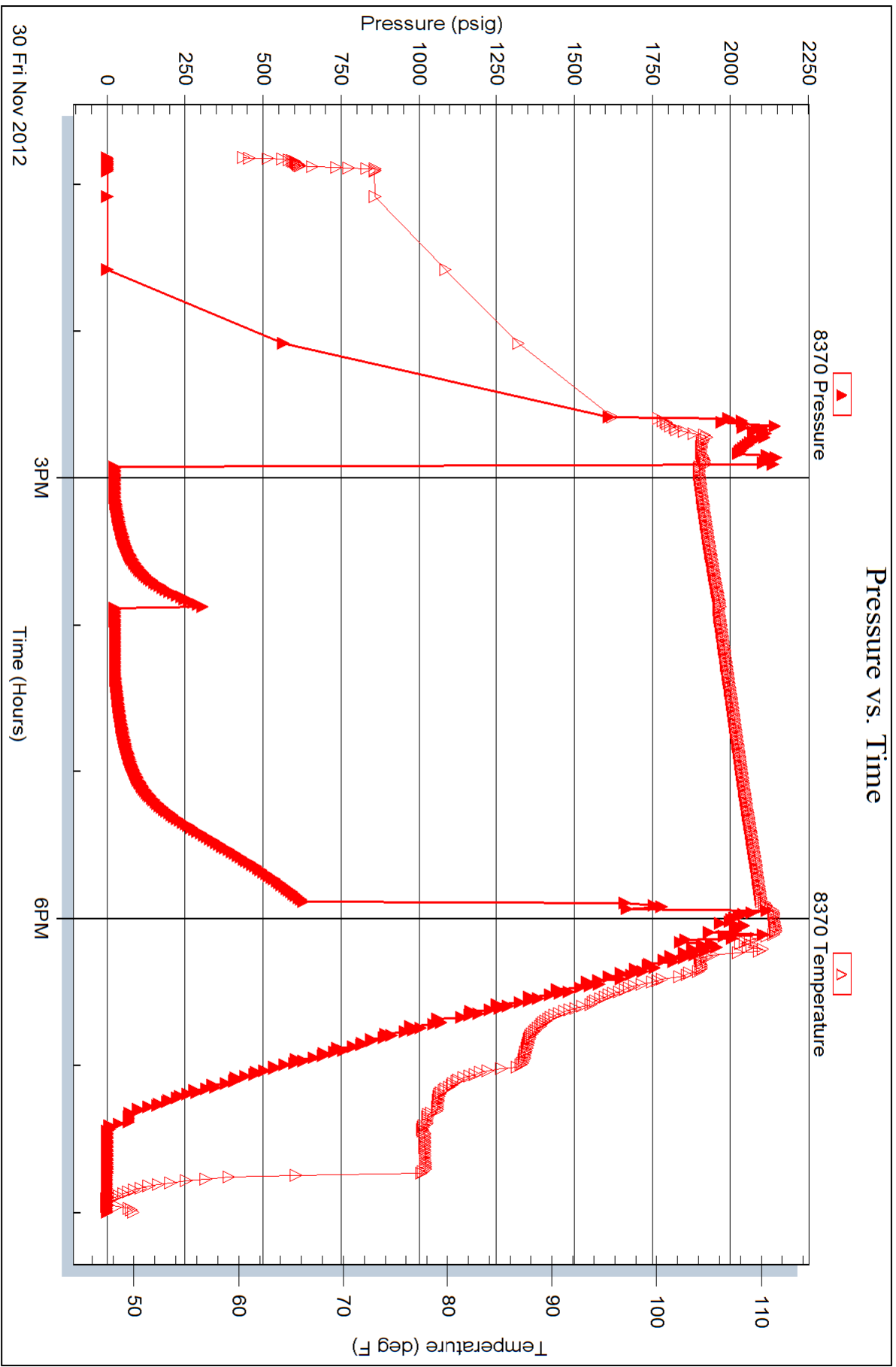
Serial #: 8370

Inside

Ares Energy, LTD

Lewis #14-7

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 49740

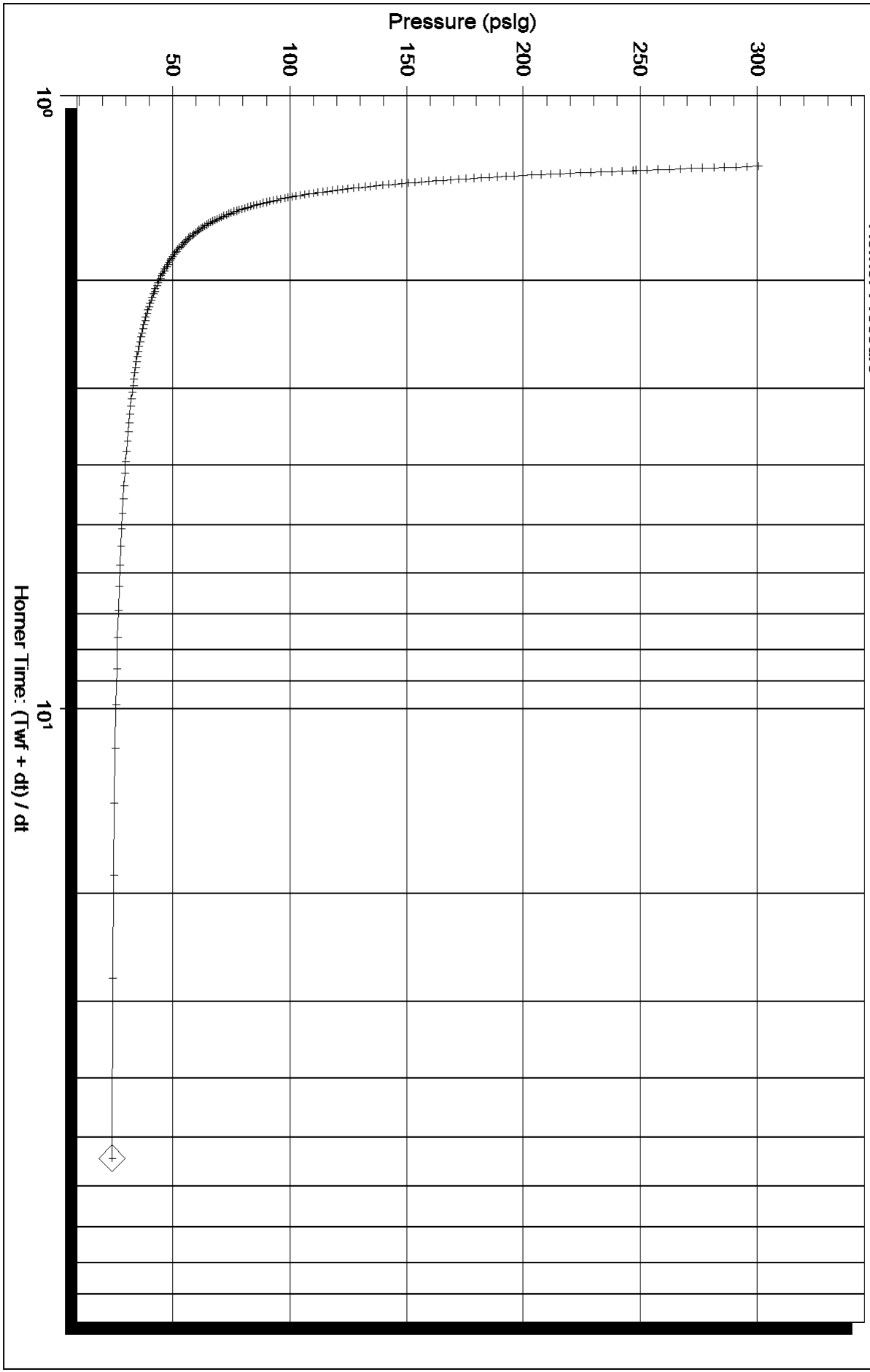
Printed: 2012.11.30 @ 20:32:37



# Horner Plot

Horner Pressure

+



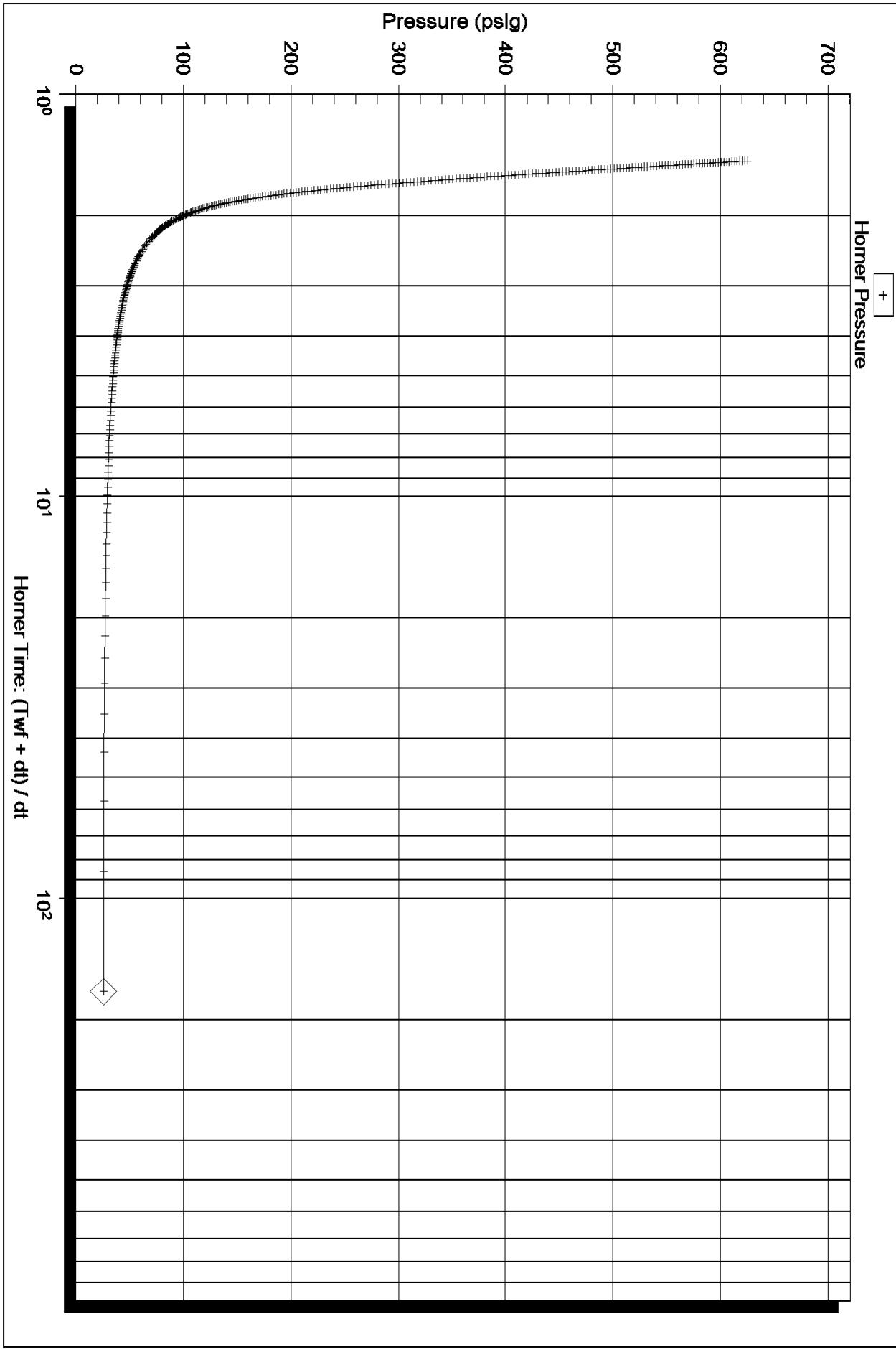
Serial Number: 8352 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

# Horner Plot



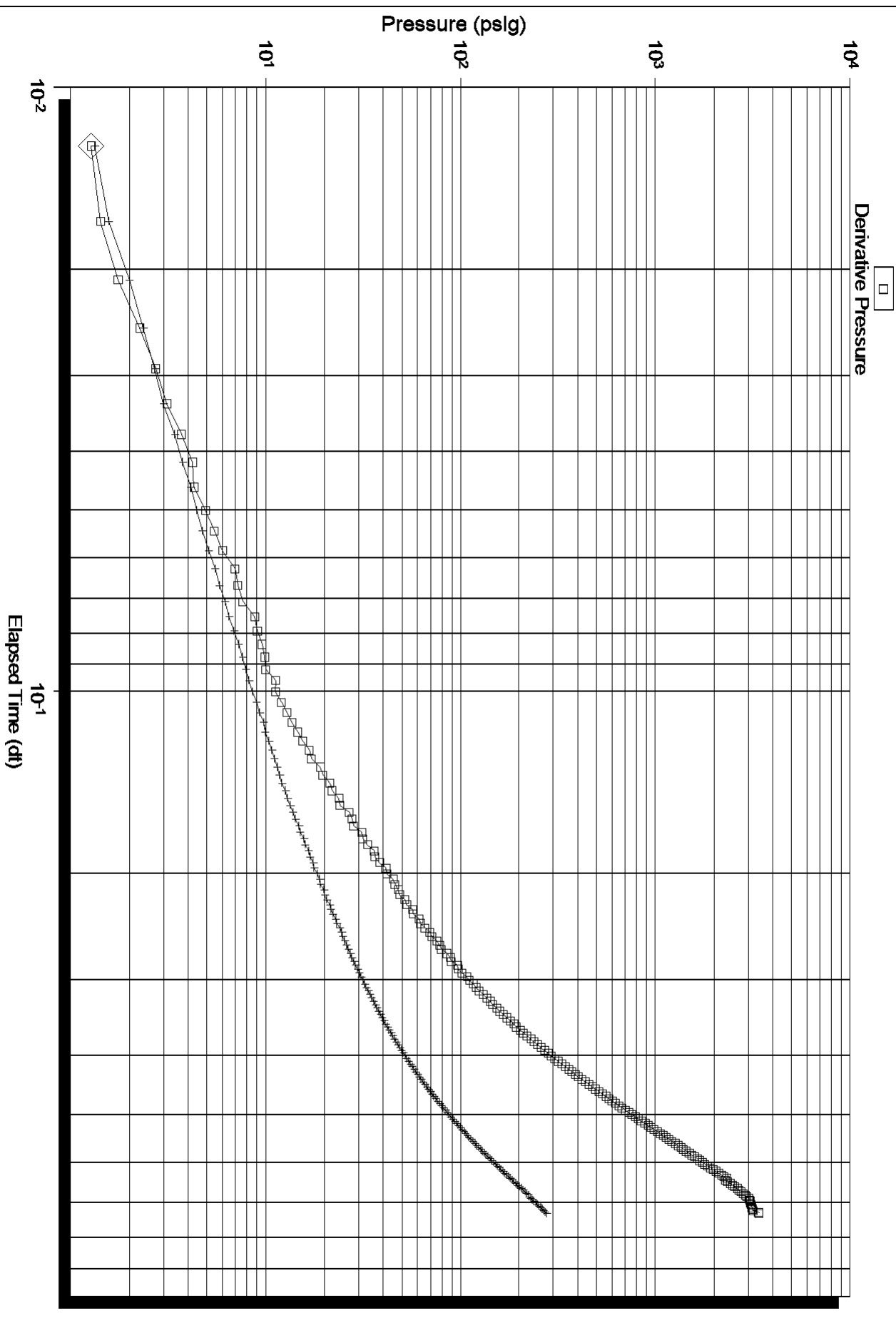
Serial Number: 8352 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

# Log-Log and Pseudo-Derivative



Serial Number: 8352 (Outside)

Flow Cycle: 1

# Log-Log and Pseudo-Derivative

