CORRECTION #1

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1199244

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 # 33770
Name: ARES Energy, LTD
Address 1: 405 N. MARIENFELD SUITE 250
Address 2:
City: MIDLAND State: TX Zip: 79701 + __ __ __ __
Contact Person: Henry Clanton
Phone: (432) 685-1960
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: Justin Carter
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 #:

1/21/2014	1/30/2014	3/11/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23841-00-00
Spot Description:
NE - NE - NE - NW Sec. 15 Twp. 25 S. R. 13 ☐ East ☑ West
229 Feet from ☑ North / ☐ South Line of Section
2449 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Stafford
Lease Name: McCandless Well #: 15-3
Field Name:
Producing Formation: Simpson
Elevation: Ground: 1926 Kelly Bushing: 1934
Total Vertical Depth: 4300 Plug Back Total Depth: 4240
Amount of Surface Pipe Set and Cemented at: 337 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: 8700 ppm Fluid volume: 1040 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Bob's Hauling Service, Inc.
Lease Name: HYTER A2 License #: 33779
Quarter NE Sec. 12 Twp. 24 S. R. 15 ☐ East ☑ West
County: Stafford Permit #: D19913.0

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: 04/10/2014
☑ **Confidential Release Date:** 04/09/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 04/11/2014

CORRECTION #1
Page Two

[redacted]

1199244

Operator Name: ARES Energy, LTD Lease Name: McCandless Well #: 15-3

Sec. 15 Twp. 25 S. R. 13 ☐ East ☑ West County: Stafford

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner Shale	3480	-1546
Lansing	3652	-1718
Mississippi	4024	-2090
Viola	4065	-2131
Simpson	4198	-2264
Arbuckle	4250	-2316

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	337	common	450	3%CC 2% gel
Production	7.875	5.5	15.5	4307.98	EA-2	250	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
4	4255-4262		
4	4198-4210		

TUBING RECORD: Size: 2.375 Set At: 4235 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 3/11/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	62	0	0		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
Simpson

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	McCandless 15-3
Doc ID	1199244

All Electric Logs Run

Dual induction log with GR/SP
Compensated Sonic log with GR/CAL
Dual compensated Neutron Litho-Density log with GR/CAL
Microresistivity log with GR/CAL

Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	McCandless 15-3
Doc ID	1199244

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	337	common	450	3%CC 2% gel
Production	7.875	5.5	15.5	4307.98	EA-2	250	

Summary of Changes

Lease Name and Number: McCandless 15-3

API/Permit #: 15-185-23841-00-00

Doc ID: 1199244

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/10/2014	04/11/2014
Producing Formation	Arbuckle	Simpson
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1196421	../../kcc/detail/operatorEditDetail.cfm?docID=1199244

Confidentiality Requested:
☑ Yes ☐ No

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1196421

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 # 33770
Name: ARES Energy, LTD
Address 1: 405 N. MARIENFELD SUITE 250
Address 2:
City: MIDLAND State: TX Zip: 79701 + ____
Contact Person: Henry Clanton
Phone: (432) 685-1960
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: Justin Carter
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 #:

1/21/2014	1/30/2014	3/11/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23841-00-00
Spot Description:
NE - NE - NE - NW Sec. 15 Twp. 25 S. R. 13 ☐ East ☑ West
229 Feet from ☑ North / ☐ South Line of Section
2449 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Stafford
Lease Name: McCandless Well #: 15-3
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1926 Kelly Bushing: 1934
Total Vertical Depth: 4300 Plug Back Total Depth: 4240
Amount of Surface Pipe Set and Cemented at: 337 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: 8700 ppm Fluid volume: 1040 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Bob's Hauling Service, Inc.
Lease Name: HYTER A2 License #: 33779
Quarter NE Sec. 12 Twp. 24 S. R. 15 ☐ East ☑ West
County: Stafford Permit #: D19913.0

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: 04/10/2014
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/10/2014

Operator Name: ARES Energy, LTD Lease Name: McCandless Well #: 15-3

Sec. 15 Twp. 25 S. R. 13 ☐ East ☑ West County: Stafford

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner Shale	3480	-1546
Lansing	3652	-1718
Mississippi	4024	-2090
Viola	4065	-2131
Simpson	4198	-2264
Arbuckle	4250	-2316

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	337	common	450	3%CC 2% gel
Production	7.875	5.5	15.5	4307.98	EA-2	250	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection: 3/11/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	62	0	0		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
Simpson	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4					
4					

TUBING RECORD: Size: 2.375 Set At: 4235 Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	McCandless 15-3
Doc ID	1196421

All Electric Logs Run

Dual induction log with GR/SP
Compensated Sonic log with GR/CAL
Dual compensated Neutron Litho-Density log with GR/CAL
Microresistivity log with GR/CAL

Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	McCandless 15-3
Doc ID	1196421

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4255-4262		
4	4198-4210		

Form	ACO1 - Well Completion
Operator	ARES Energy, LTD
Well Name	McCandless 15-3
Doc ID	1196421

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	337	common	450	3%CC 2% gel
Production	7.875	5.5	15.5	4307.98	EA-2	250	

BASIC ENERGY SERVICES

RECEIVED
JAN 28 2014
By

PAGE	CUST NO	INVOICE DATE
1 of 1	1008415	01/22/2014

INVOICE NUMBER
1718 - 91391300

Pratt (620) 672-1201

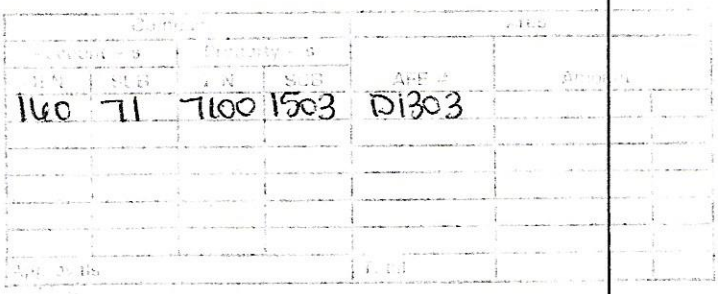
BILL TO
ARES ENERGY LTD
405 NORTH MARIENFELD
MIDLAND
TX US 79701

ATTN: ACCOUNTS PAYABLE

JOB SITE
LEASE NAME McCandless 15-3
LOCATION
COUNTY Stafford
STATE KS
JOB DESCRIPTION Cement-New Well Casing/Pi
JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40683887	19843		Net - 30 days	02/21/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 01/21/2014 to 01/21/2014				
0040683887				
171809876A Cement-New Well Casing/Pi 01/21/2014				
Cement 8 5/8" Surface				
Common Cement	450.00	EA	12.00	5,400.00 T
Celloflake	88.00	EA	2.78	244.20 T
Calcium Chloride	987.00	EA	0.79	777.26 T
Cement Gel	658.00	EA	0.19	123.38 T
Calcium Chloride	160.00	EA	0.79	126.00 T
"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	423.00	EA	1.20	507.60
Depth Charge; 0-500'	1.00	EA	750.00	750.00
Blending & Mixing Service Charge	450.00	BAG	1.05	472.50
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



PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	9,218.44
TAX	476.97
INVOICE TOTAL	9,695.41

PAGE	CUST NO	INVOICE DATE
1 of 1	1008415	01/31/2014

INVOICE NUMBER
1718 - 91402097

BASIC ENERGY SERVICES

Pratt (620) 672-1201

BILL TO
ARES ENERGY LTD
405 NORTH MARIENFELD
MIDLAND
TX US 79701
ATTN: ACCOUNTS PAYABLE

RECEIVED FEB 4 2014 By______

JOB SITE

LEASE NAME	McCandless 15-3
LOCATION	
COUNTY	Stafford
STATE	KS
JOB DESCRIPTION	Cement-New Well Casing/Pi
JOB CONTACT	

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40687340	19905		Net - 30 days	03/02/2014

For Service Dates: 01/30/2014 to 01/30/2014

0040687340

171809852A Cement-New Well Casing/Pi 01/30/2014
Cement 5 1/2" Longstring

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
AA2 Cement	175.00	EA	12.75	2,231.25 T
60/40 POZ	50.00	EA	9.00	450.00 T
C-41P	42.00	EA	3.00	126.00 T
Salt	883.00	EA	0.37	331.12 T
Cement Friction Reducer	83.00	EA	4.50	373.50 T
Mud Flush	500.00	EA	0.65	322.50 T
Gilsonite	875.00	EA	0.50	439.69 T
"Latch Down Plug & Baffle, 5 1/2"" (Blu	1.00	EA	300.00	300.00
"Auto Fill Float Shoe 5 1/2"" (Blue)"	1.00	EA	270.00	270.00
"Turbolizer, 5 1/2"" (Blue)"	8.00	EA	82.50	660.00
"5 1/2"" Basket (Blue)"	1.00	EA	217.50	217.50
"Unit Mileage Chg (PU, cars one way)"	20.00	MI	3.19	63.75
Heavy Equipment Mileage	40.00	MI	5.25	210.00
"Proppant & Bulk Del. Chgs., per ton mil	208.00	EA	1.20	249.60
Depth Charge; 4001'-5000'	1.00	EA	1,890.00	1,890.00
Blending & Mixing Service Charge	225.00	BAG	1.05	236.25
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

Account #'s				AFE #	Amount
GEN	SUB		SUB		
160	70	7100	1503	D1303	

Approvals | Total

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	**8,689.91**
TAX	**305.60**
INVOICE TOTAL	**8,995.51**

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ares Energy**

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

McCandless 15-3

15-23S-13W Stafford

Start Date: 2014.01.26 @ 04:11:49
End Date: 2014.01.26 @ 14:35:34
Job Ticket #: 51951 DST #: 1

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

Printed: 2014.01.26 @ 18:23:53

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51951 **DST#: 1**

Test Start: 2014.01.26 @ 04:11:49

GENERAL INFORMATION:

Formation: **Lansing KC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:08:49
Time Test Ended: 14:35:34

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 3892.00 ft (KB) To 3916.00 ft (KB) (TVD)
Total Depth: 3916.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

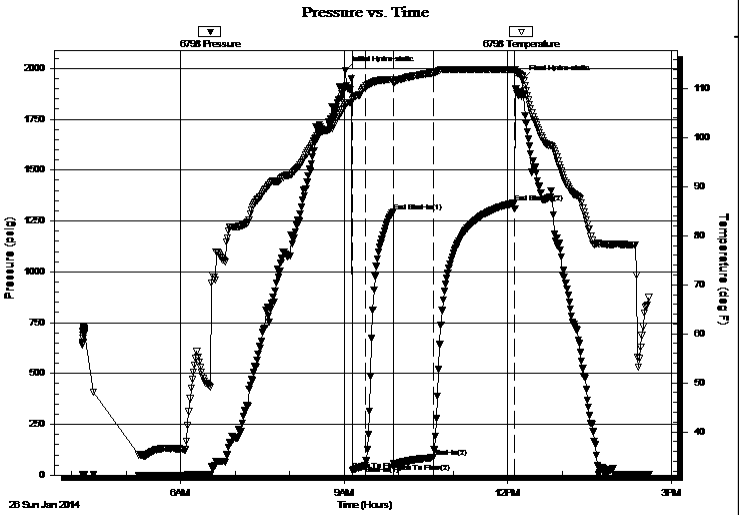
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 86.94 psig @ 3893.00 ft (KB)
Start Date: 2014.01.26 End Date: 2014.01.26
Start Time: 04:11:50 End Time: 14:35:34

Capacity: 8000.00 psig
Last Calib.: 2014.01.26
Time On Btm: 2014.01.26 @ 09:01:19
Time Off Btm: 2014.01.26 @ 12:15:49

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 90 seconds
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.44	106.63	Initial Hydro-static
8	23.58	107.74	Open To Flow (1)
22	47.00	110.34	Shut-In(1)
53	1294.74	111.87	End Shut-In(1)
53	57.50	111.27	Open To Flow (2)
97	86.94	113.27	Shut-In(2)
186	1338.27	113.87	End Shut-In(2)
195	1944.77	112.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2911 GIP	0.00
191.00	10%G 20%O 70%M	1.15

Gas Rates

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

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51951 **DST#: 1**

Test Start: 2014.01.26 @ 04:11:49

GENERAL INFORMATION:

Formation: **Lansing KC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:08:49
Time Test Ended: 14:35:34

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 3892.00 ft (KB) To 3916.00 ft (KB) (TVD)
Total Depth: 3916.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

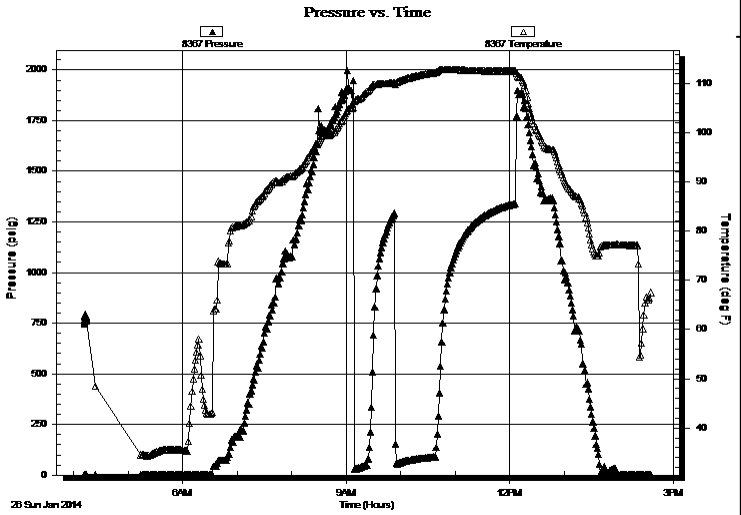
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 3893.00 ft (KB)
Start Date: 2014.01.26 End Date: 2014.01.26
Start Time: 04:11:50 End Time: 14:35:19

Capacity: 8000.00 psig
Last Calib.: 2014.01.26
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 90 seconds
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2911 GIP	0.00
191.00	10%G 20%O 70%M	1.15

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51951 **DST#: 1**

Test Start: 2014.01.26 @ 04:11:49

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4700.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2911 GIP	0.000
191.00	10%G 20%O 70%M	1.153

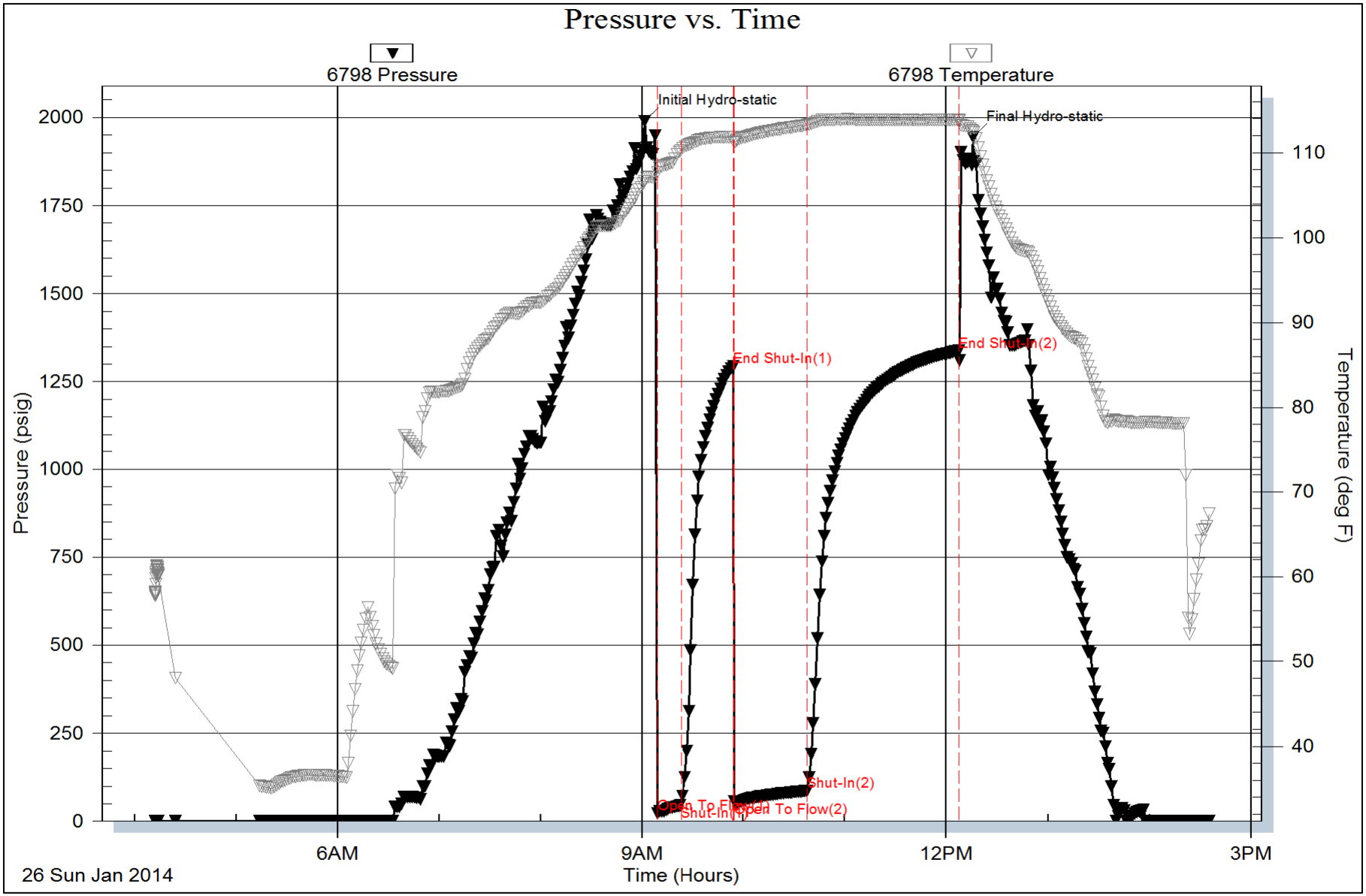
Total Length: 191.00 ft Total Volume: 1.153 bbl

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

Laboratory Name: Laboratory Location:

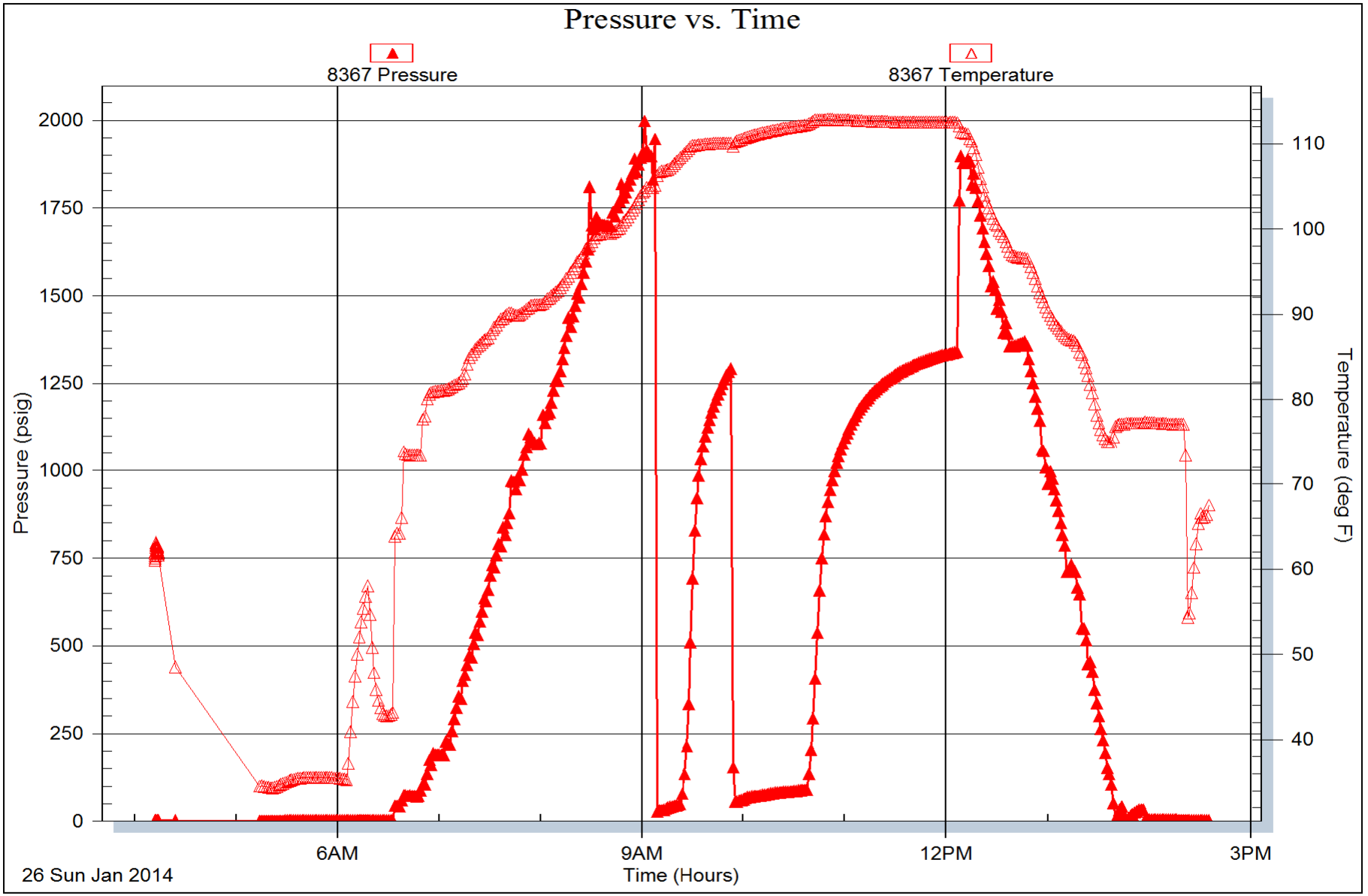
Recovery Comments:

Serial #: 6798 **Inside** Ares Energy McCandless 15-3 DST Test Number: 1

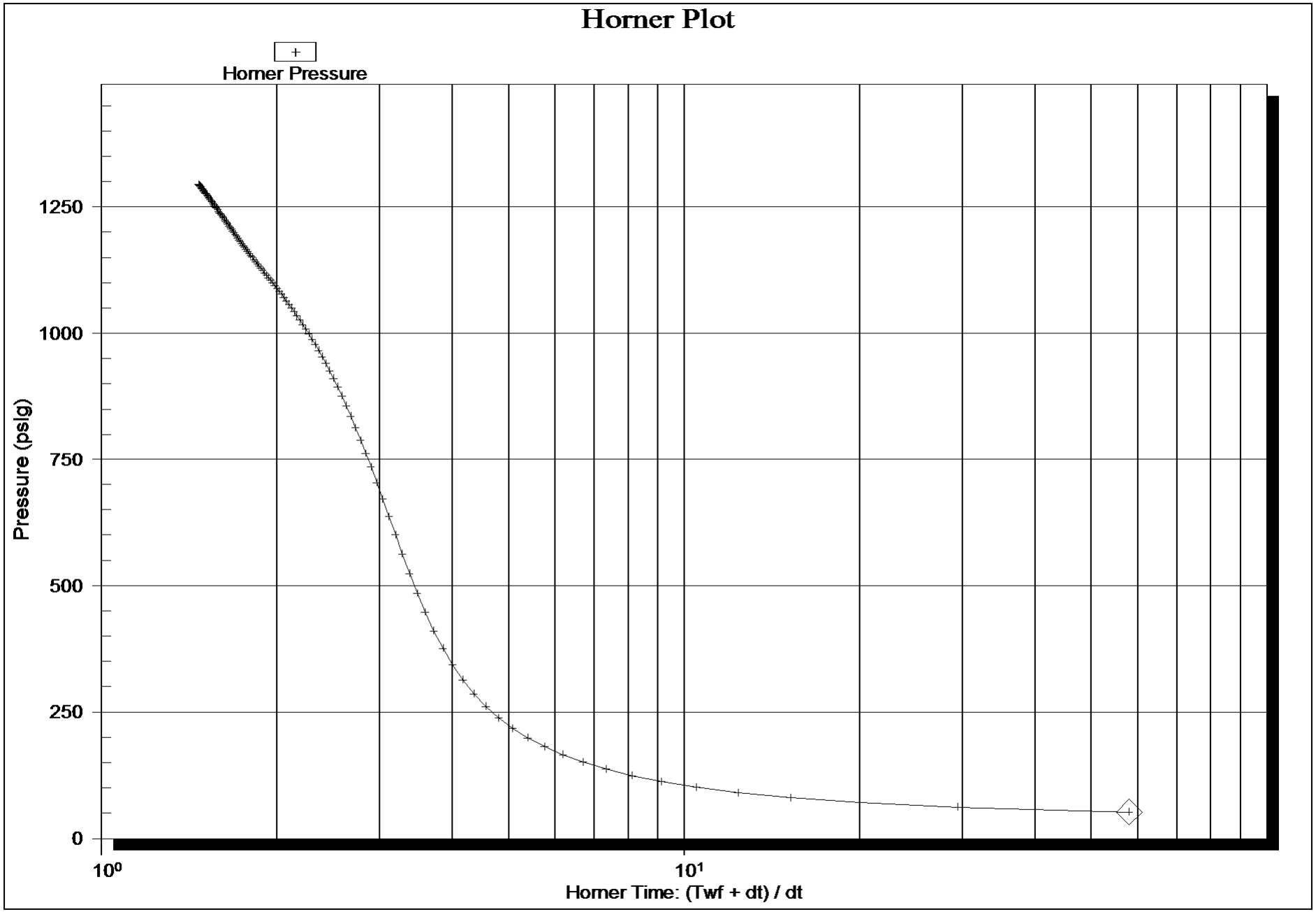


Trilobite Testing, Inc Ref. No: 51951 Printed: 2014.01.26 @ 18:23:54

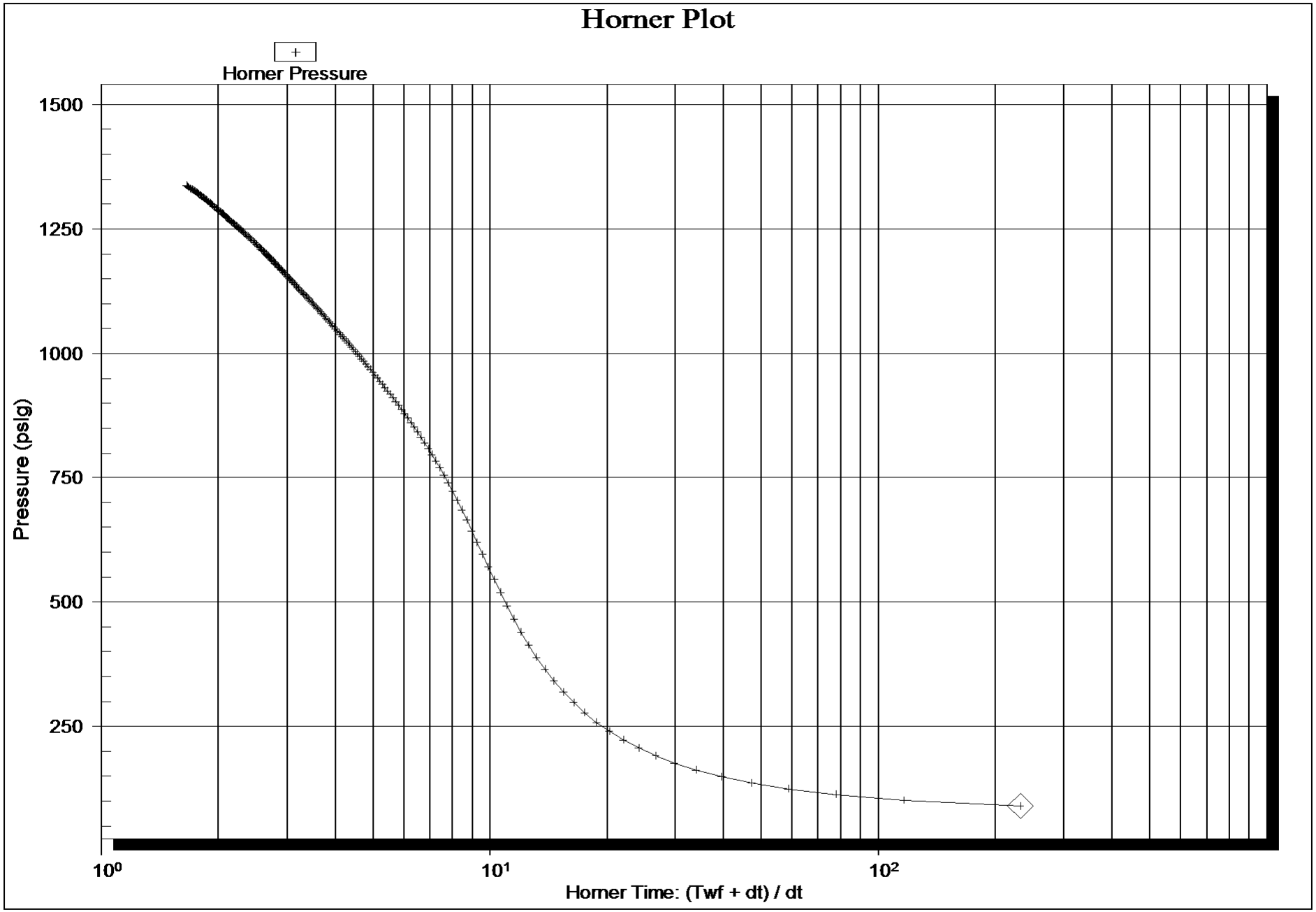
Serial #: 8367 **Outside** Ares Energy McCandless 15-3 DST Test Number: 1



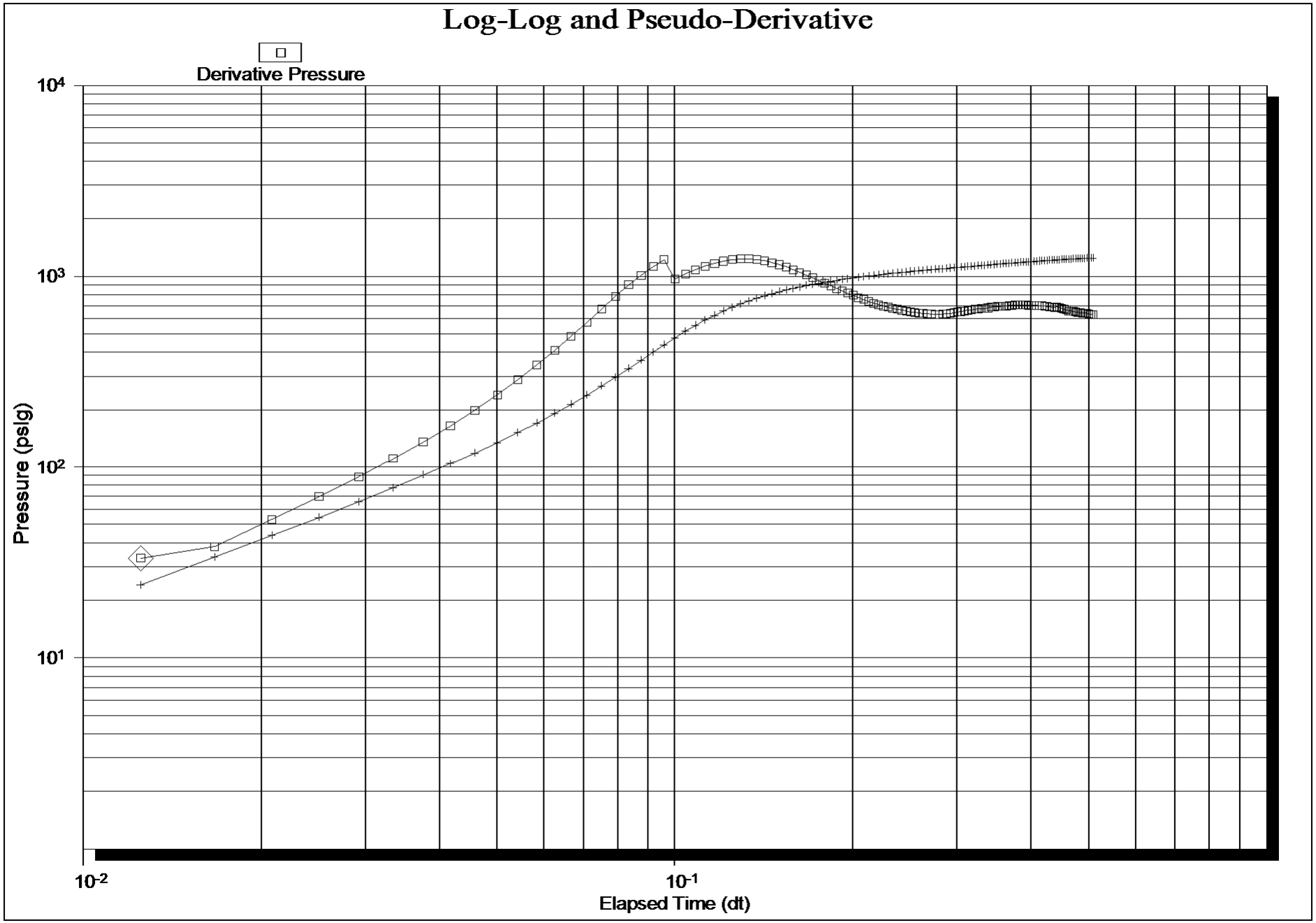
Trilobite Testing, Inc Ref. No: 51951 Printed: 2014.01.26 @ 18:23:54

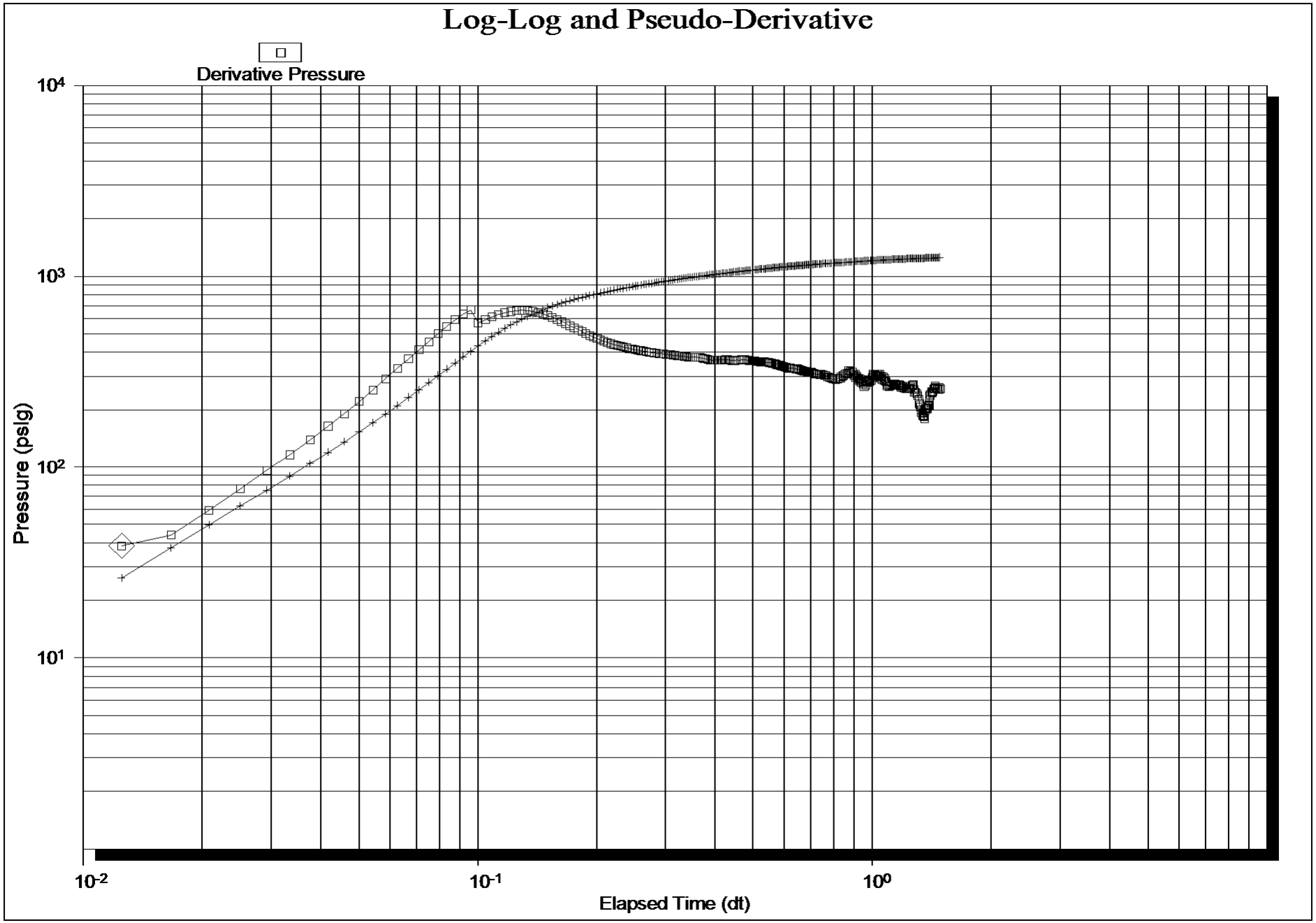


Serial Number: 6798 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 6798 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig)
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (pslg)
10^-2
10^-1
10^0
Elapsed Time (dt)

DRILL STEM TEST REPORT

Prepared For: **Ares Energy**

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

McCandless 15-3

15-23S-13W Stafford

Start Date: 2014.01.27 @ 05:03:14

End Date: 2014.01.27 @ 17:35:29

Job Ticket #: 51952 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.27 @ 17:56:15

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51952 **DST#: 2**

Test Start: 2014.01.27 @ 05:03:14

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:44:59
Time Test Ended: 17:35:29

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4066.00 ft (KB) To 4098.00 ft (KB) (TVD)
Total Depth: 4098.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

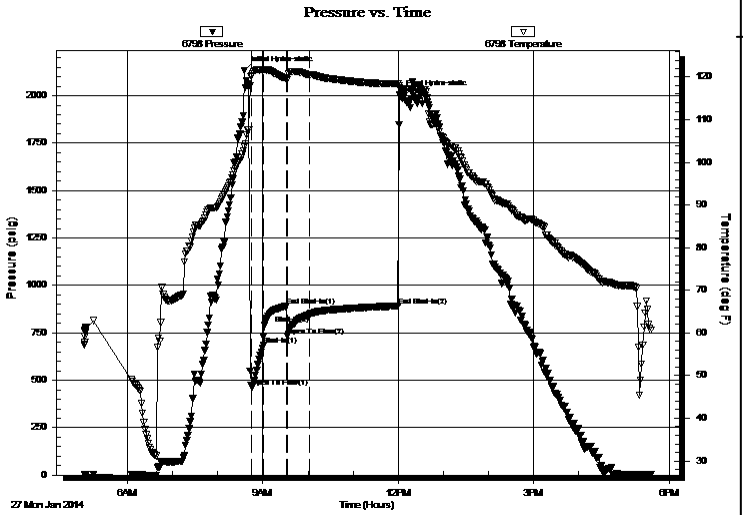
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 843.71 psig @ 4067.00 ft (KB)
Start Date: 2014.01.27 End Date: 2014.01.27
Start Time: 05:03:15 End Time: 17:35:29

Capacity: 8000.00 psig
Last Calib.: 2014.01.27
Time On Btm: 2014.01.27 @ 08:35:29
Time Off Btm: 2014.01.27 @ 12:01:29

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 5 minutes, Caught Sample, TSTM
FSI: Blow Back Built to BOB in 4 minutes
FF: Strong Blow , BOB in 30 seconds, GTS Immediate, TSTM
FSI: Blow Back Built to BOB in 4 minutes, OTS in 60 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.56	103.68	Initial Hydro-static
10	465.57	120.37	Open To Flow (1)
25	683.07	121.71	Shut-In(1)
56	890.46	119.64	End Shut-In(1)
57	732.31	119.46	Open To Flow (2)
87	843.71	120.51	Shut-In(2)
205	891.45	118.40	End Shut-In(2)
206	2007.07	117.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 GIP	0.00
1866.00	GSY MCO 30%G 20%M 50%O	18.34
1953.00	Gassy Oil 10%G 90%O	20.04

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51952 **DST#: 2**

Test Start: 2014.01.27 @ 05:03:14

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:44:59
Time Test Ended: 17:35:29

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4066.00 ft (KB) To 4098.00 ft (KB) (TVD)
Total Depth: 4098.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

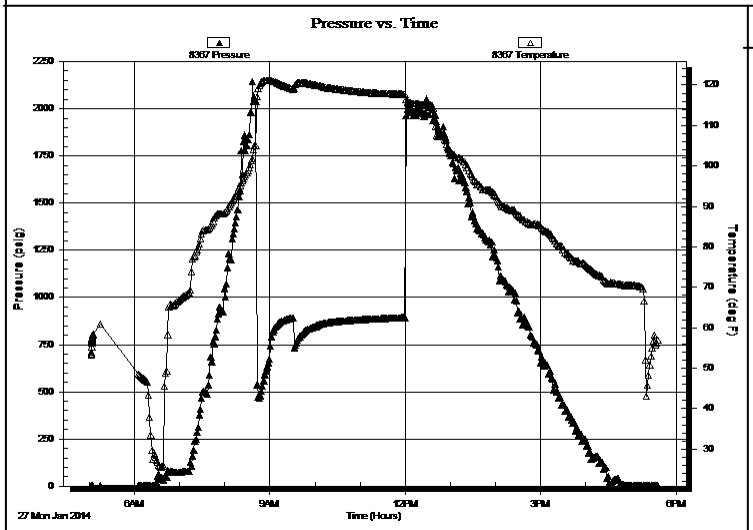
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 4067.00 ft (KB)
Start Date: 2014.01.27 End Date: 2014.01.27
Start Time: 05:03:15 End Time: 17:35:29

Capacity: 8000.00 psig
Last Calib.: 2014.01.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 5 minutes, Caught Sample, TSTM
FSI: Blow Back Built to BOB in 4 minutes
FF: Strong Blow , BOB in 30 seconds, GTS Immediate, TSTM
FSI: Blow Back Built to BOB in 4 minutes, OTS in 60 minutes



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 GIP	0.00
1866.00	GSY MCO 30%G 20%M 50%O	18.34
1953.00	Gassy Oil 10%G 90%O	20.04

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51952 **DST#: 2**

Test Start: 2014.01.27 @ 05:03:14

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	40.6 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5200.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	252 GIP	0.000
1866.00	GSY MCO 30%G 20%M 50%O	18.340
1953.00	Gassy Oil 10%G 90%O	20.039

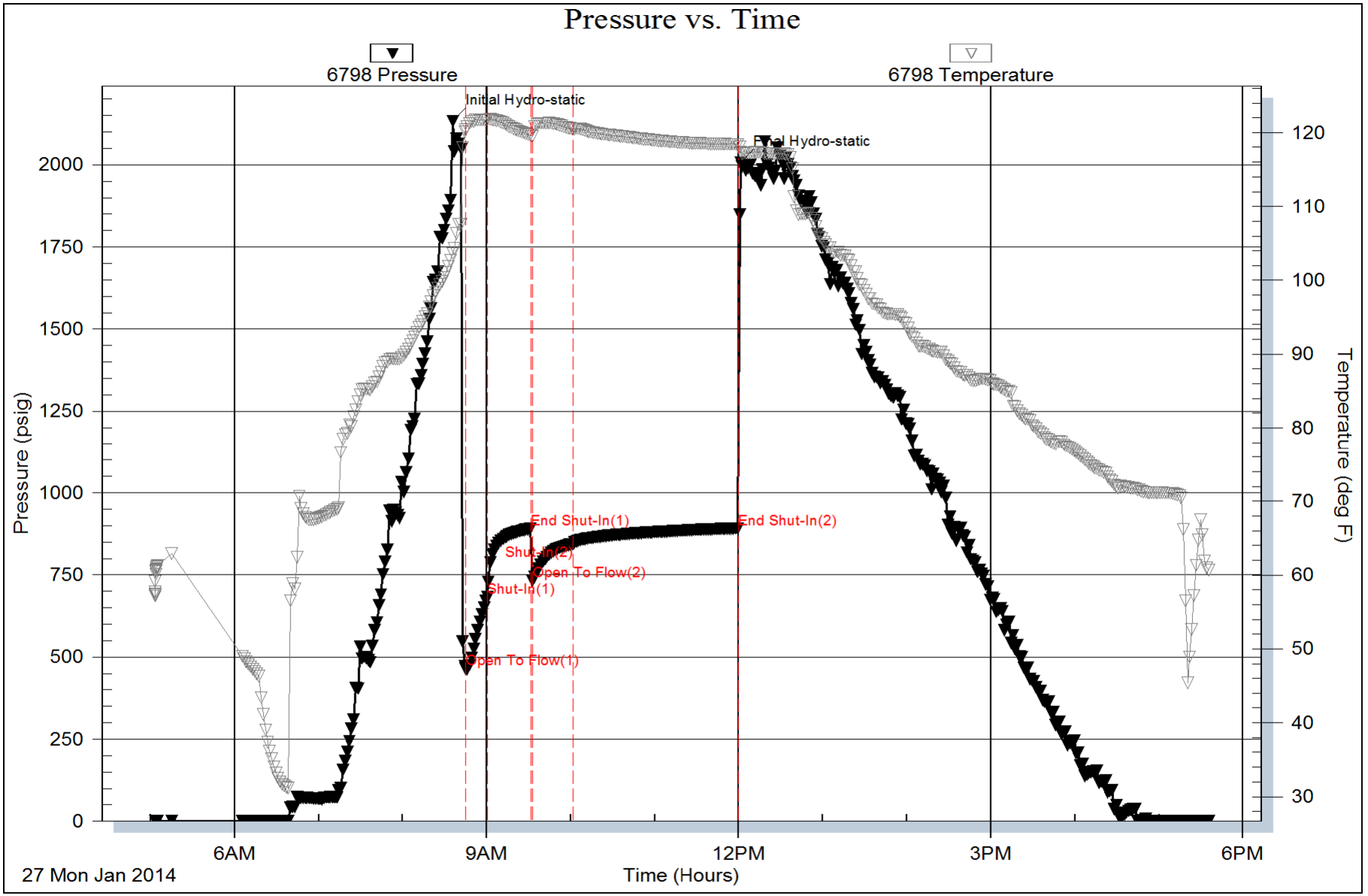
Total Length: 3819.00 ft Total Volume: 38.379 bbl

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

Laboratory Name: Laboratory Location:

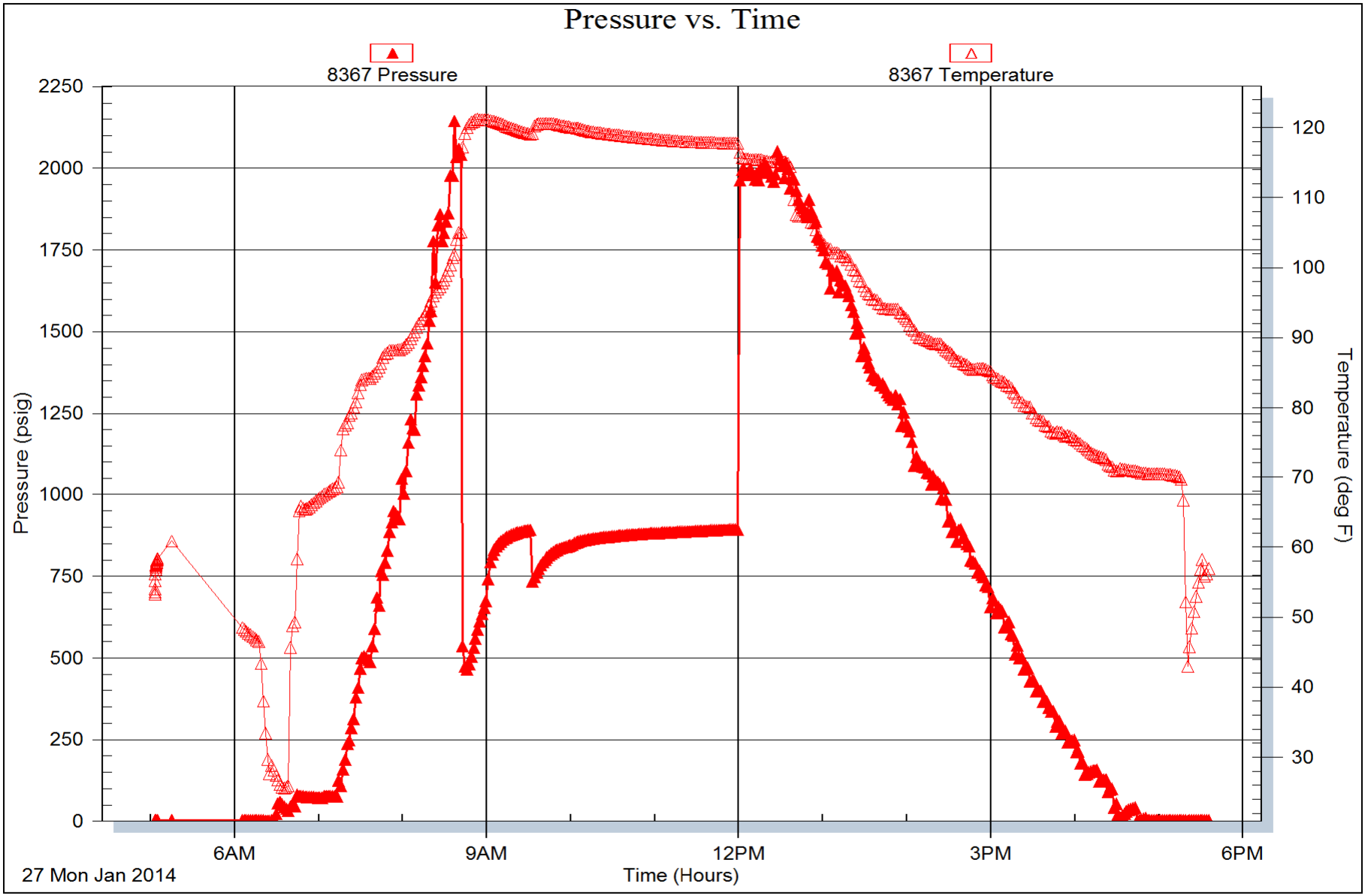
Recovery Comments: Gravity Was 38.2 @ 36 degrees

Serial #: 6798 **Inside** Ares Energy McCandless 15-3 DST Test Number: 2

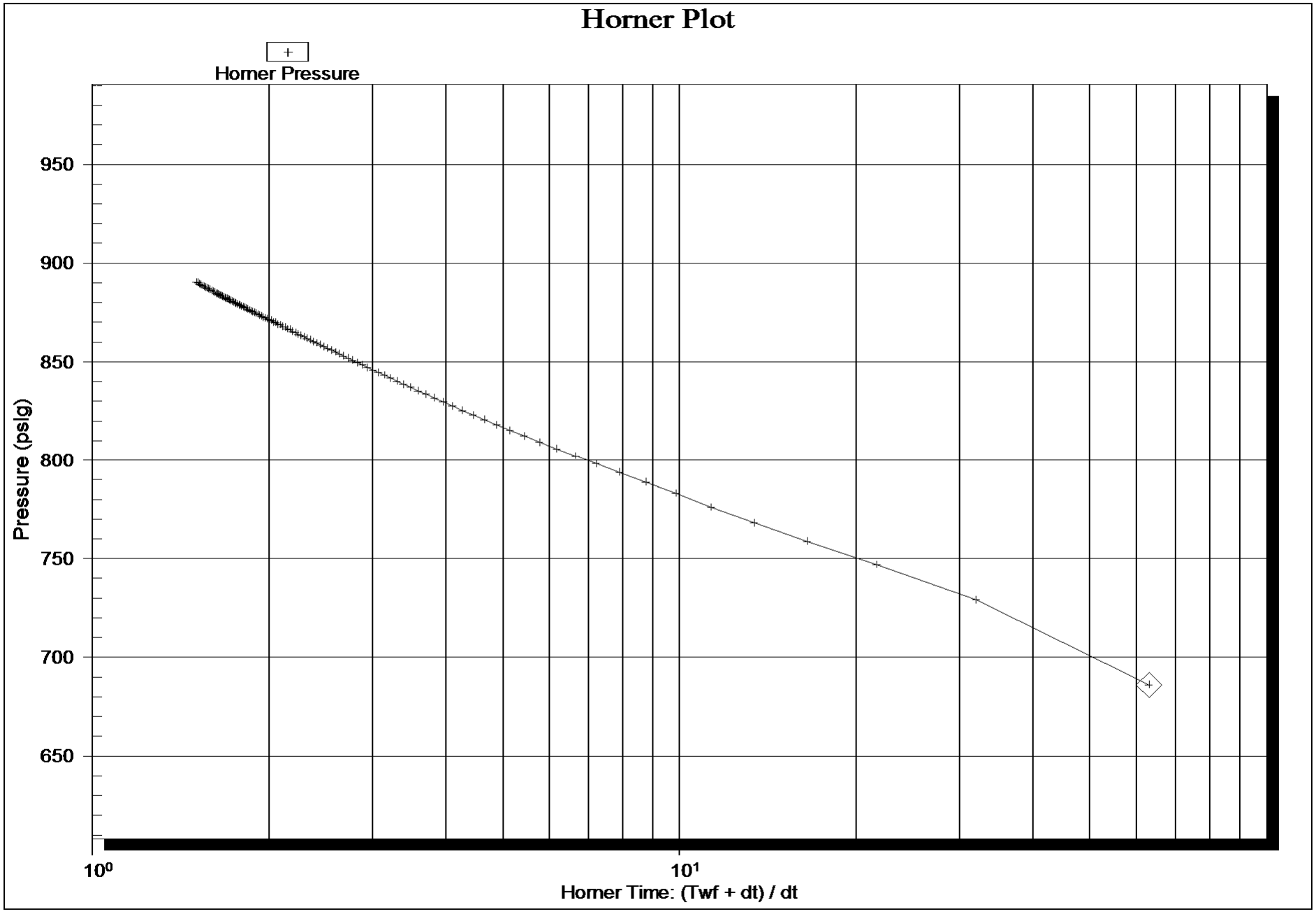


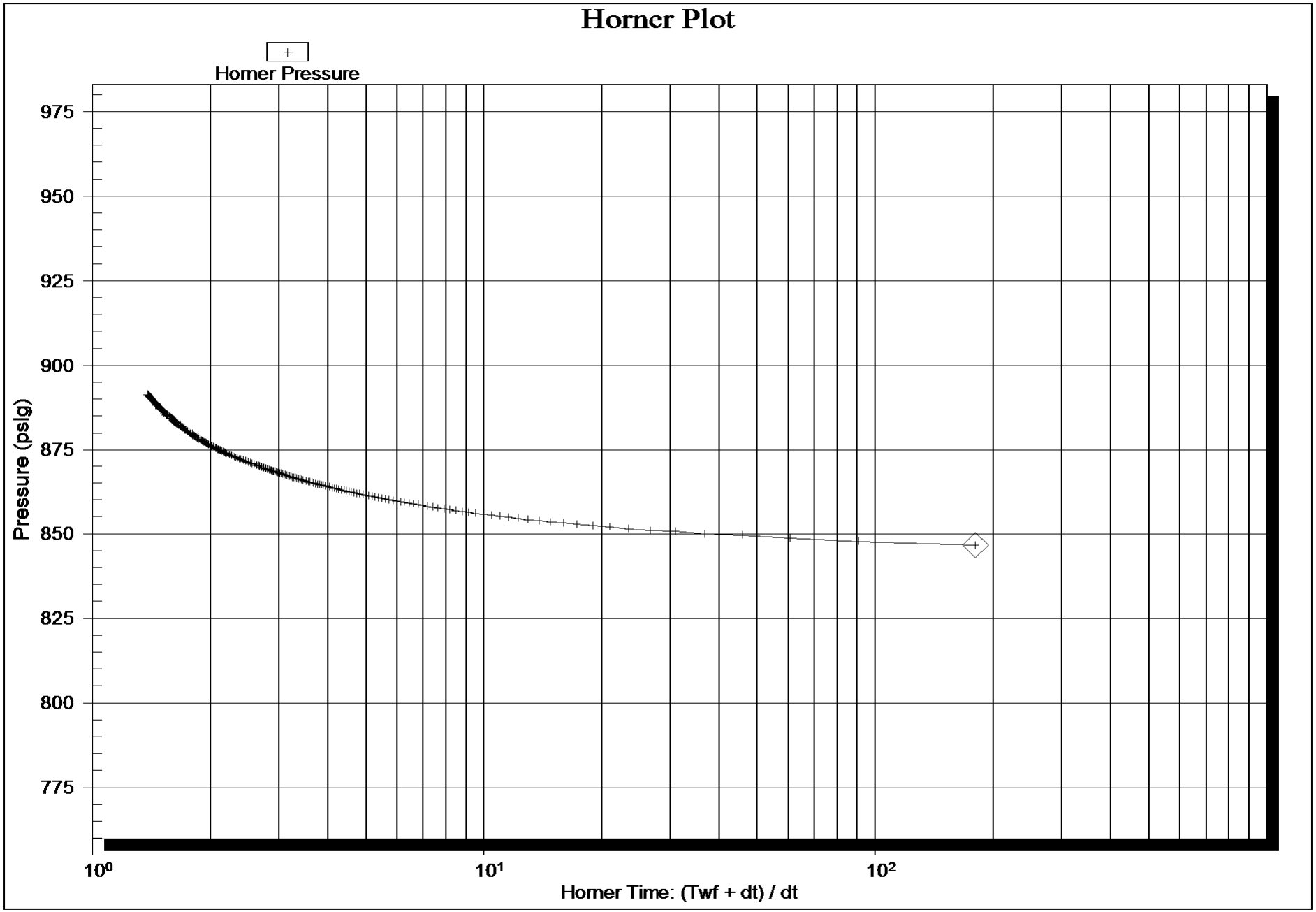
Trilobite Testing, Inc Ref. No: 51952 Printed: 2014.01.27 @ 17:56:16

Serial #: 8367 **Outside** Ares Energy McCandless 15-3 DST Test Number: 2

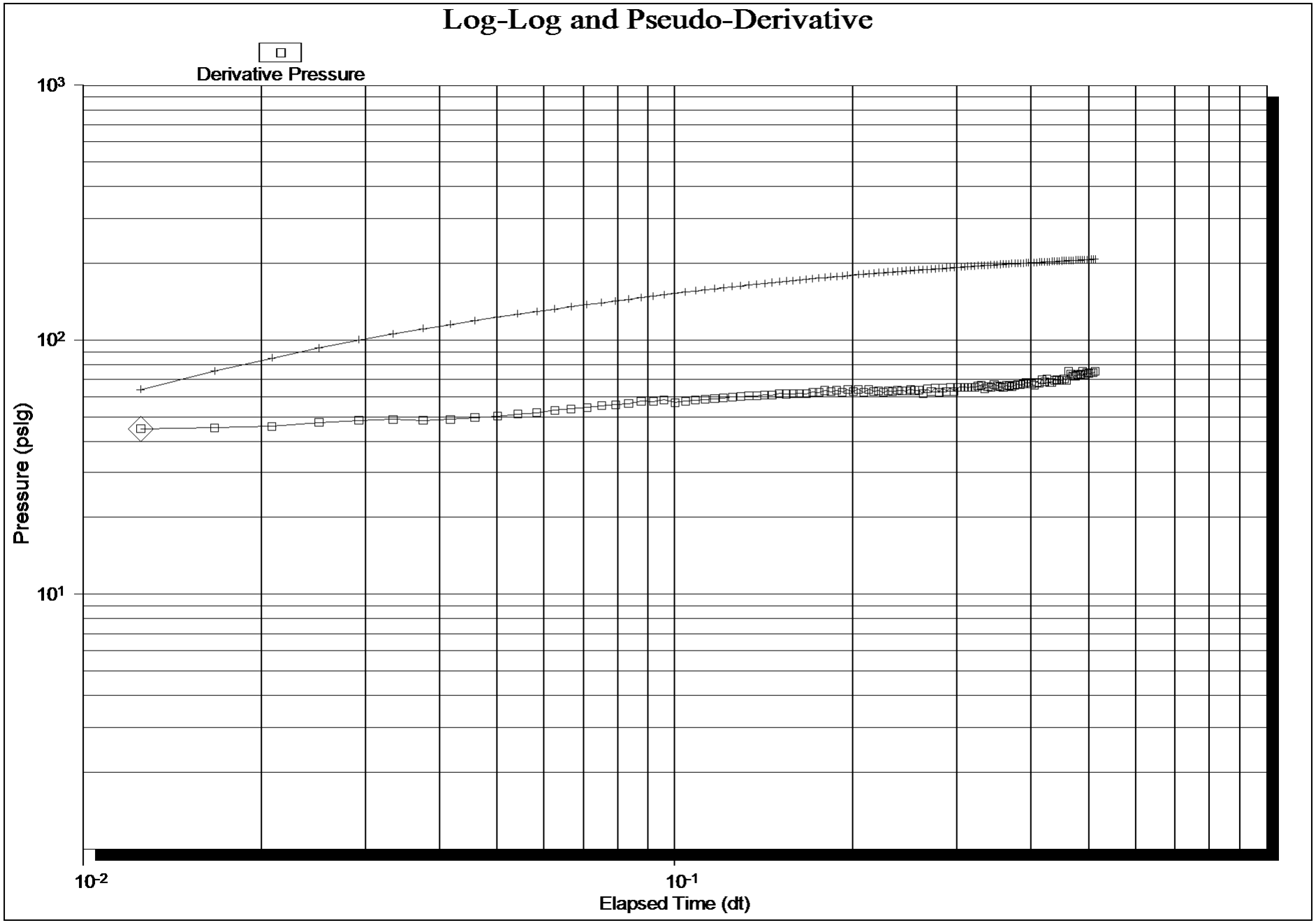


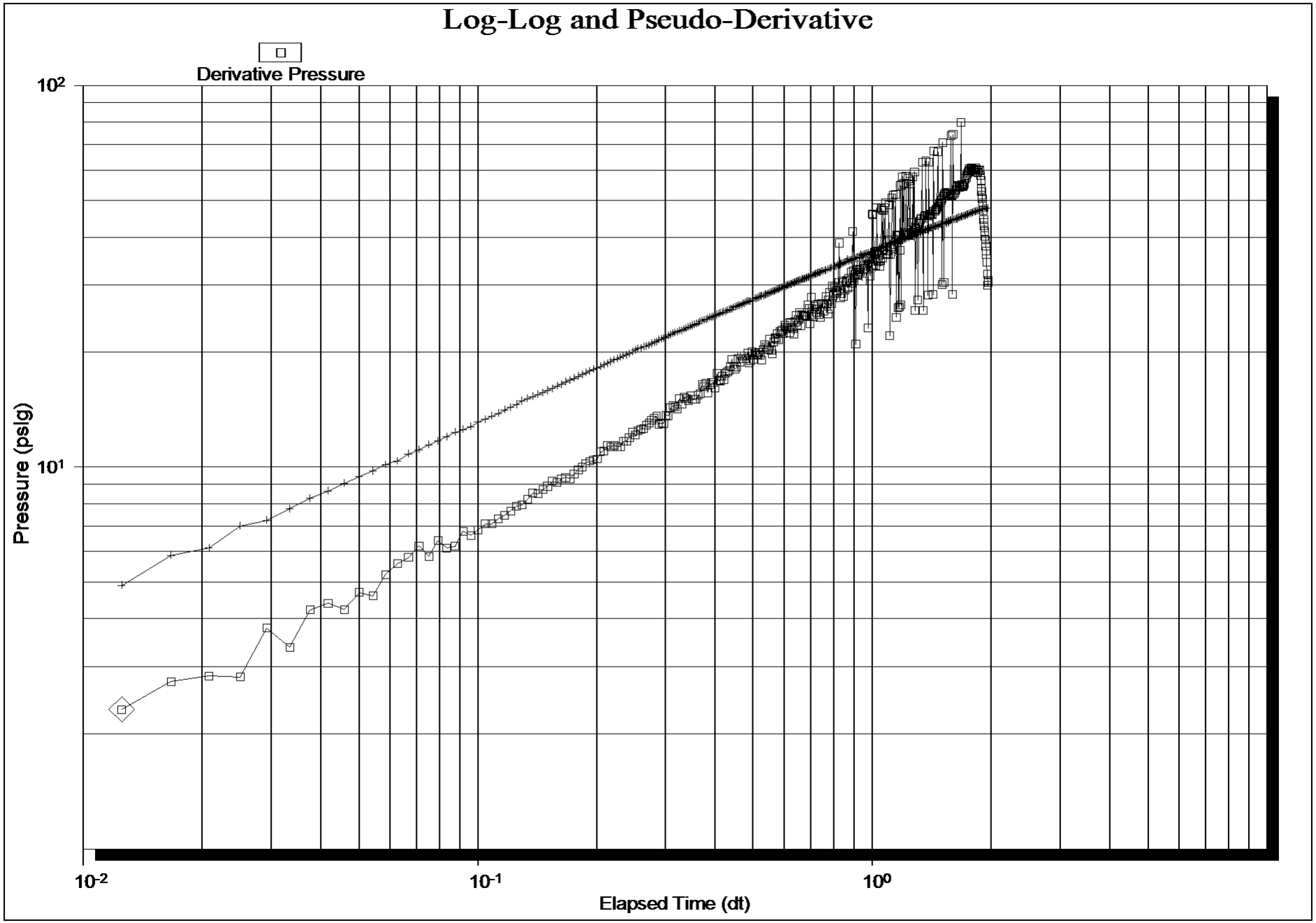
Trilobite Testing, Inc Ref. No: 51952 Printed: 2014.01.27 @ 17:56:16

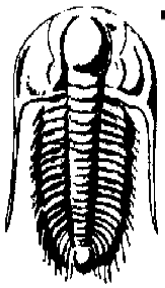

Horner Plot
Horner Pressure
950
900
850
800
750
700
650
Pressure (psig)
10⁰
10¹
Horner Time: (Twf + dt) / dt



Serial Number: 6798 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^3
10^2
10^1
Pressure (pslg)
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^2
10^1
Pressure (pslg)
10^-2
10^-1
10^0
Elapsed Time (dt)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ares Energy**

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

McCandless 15-3

15-23S-13W Stafford

Start Date: 2014.01.28 @ 09:06:30

End Date: 2014.01.28 @ 17:34:45

Job Ticket #: 51953 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.28 @ 17:51:07

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51953 **DST#: 3**

Test Start: 2014.01.28 @ 09:06:30

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:33:00
Time Test Ended: 17:34:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4176.00 ft (KB) To 4215.00 ft (KB) (TVD)
Total Depth: 4215.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

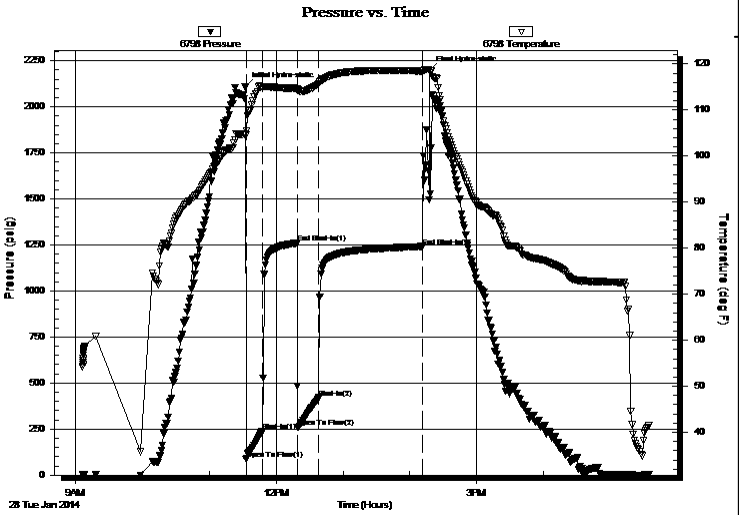
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 419.55 psig @ 4177.00 ft (KB)
Start Date: 2014.01.28 End Date: 2014.01.28
Start Time: 09:06:31 End Time: 17:34:45

Capacity: 8000.00 psig
Last Calib.: 2014.01.28
Time On Btm: 2014.01.28 @ 11:32:15
Time Off Btm: 2014.01.28 @ 14:17:45

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: Blow Back Built to BOB in 5 minutes
FF: Strong Blow , BOB in 45 seconds
FSI: Blow Back Built to 6 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.23	104.86	Initial Hydro-static
1	84.66	104.66	Open To Flow (1)
16	236.03	115.03	Shut-In(1)
47	1259.80	114.71	End Shut-In(1)
48	258.94	114.36	Open To Flow (2)
67	419.55	115.70	Shut-In(2)
160	1241.72	118.45	End Shut-In(2)
166	2198.04	118.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2590 GIP	0.00
819.00	GMCO 30%G 30%M 40%O	7.60
504.00	Gassy Oil 10%G 90%O	5.17

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51953 **DST#: 3**

Test Start: 2014.01.28 @ 09:06:30

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:33:00
Time Test Ended: 17:34:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4176.00 ft (KB) To 4215.00 ft (KB) (TVD)
Total Depth: 4215.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

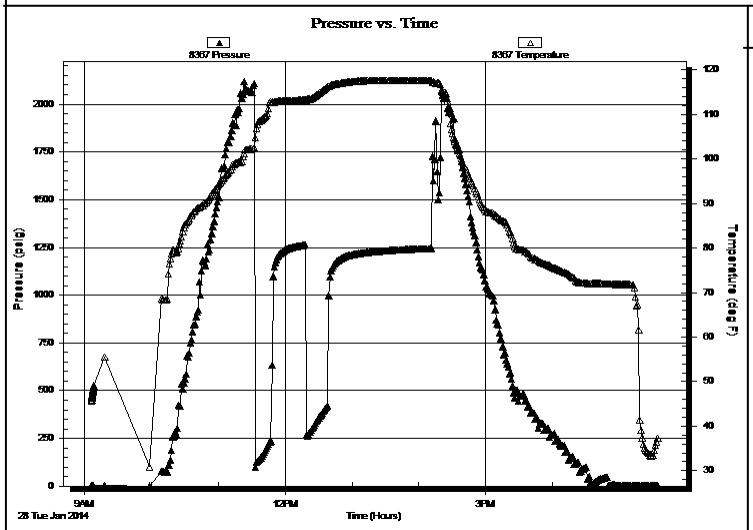
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 4177.00 ft (KB)
Start Date: 2014.01.28 End Date: 2014.01.28
Start Time: 09:06:31 End Time: 17:34:45

Capacity: 8000.00 psig
Last Calib.: 2014.01.28
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: Blow Back Built to BOB in 5 minutes
FF: Strong Blow , BOB in 45 seconds
FSI: Blow Back Built to 6 inches



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2590 GIP	0.00
819.00	GMCO 30%G 30%M 40%O	7.60
504.00	Gassy Oil 10%G 90%O	5.17

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51953 **DST#: 3**

Test Start: 2014.01.28 @ 09:06:30

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	40 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4700.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2590 GIP	0.000
819.00	GMCO 30%G 30%M 40%O	7.597
504.00	Gassy Oil 10%G 90%O	5.171

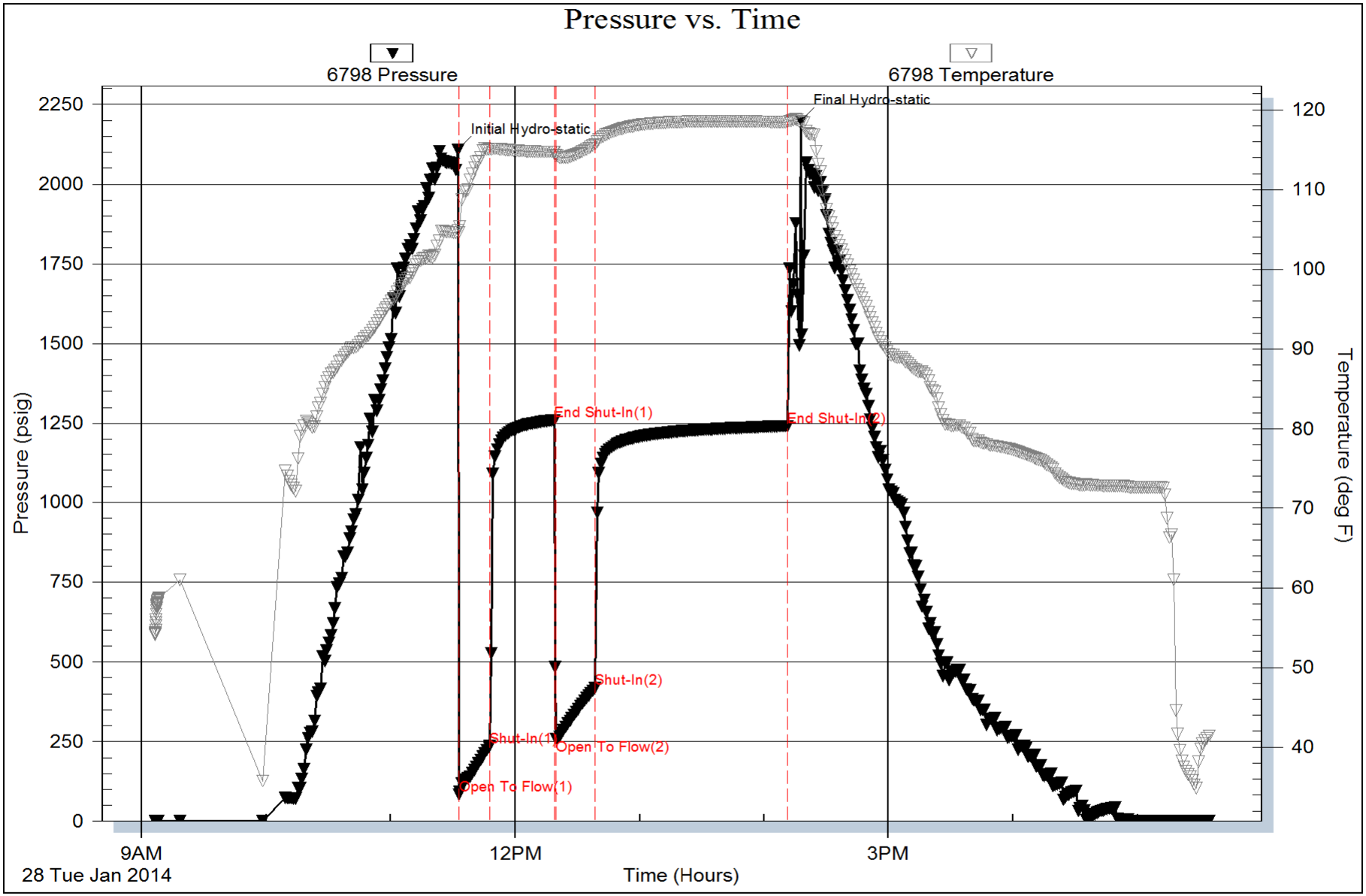
Total Length: 1323.00 ft Total Volume: 12.768 bbl

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

Laboratory Name: Laboratory Location:

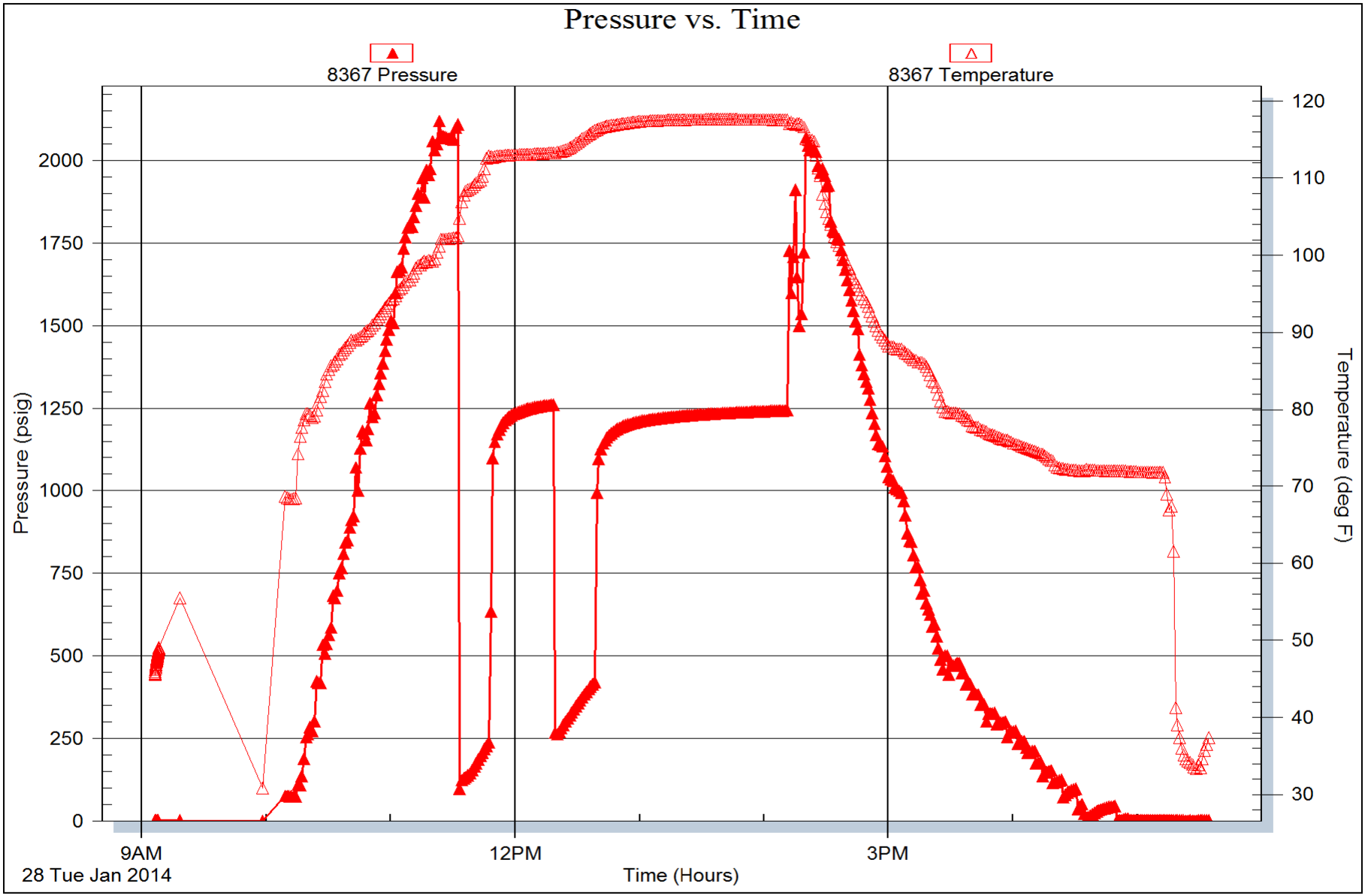
Recovery Comments: Gravity was 38.8 @ 48 degrees

Serial #: 6798 **Inside** Ares Energy McCandless 15-3 DST Test Number: 3

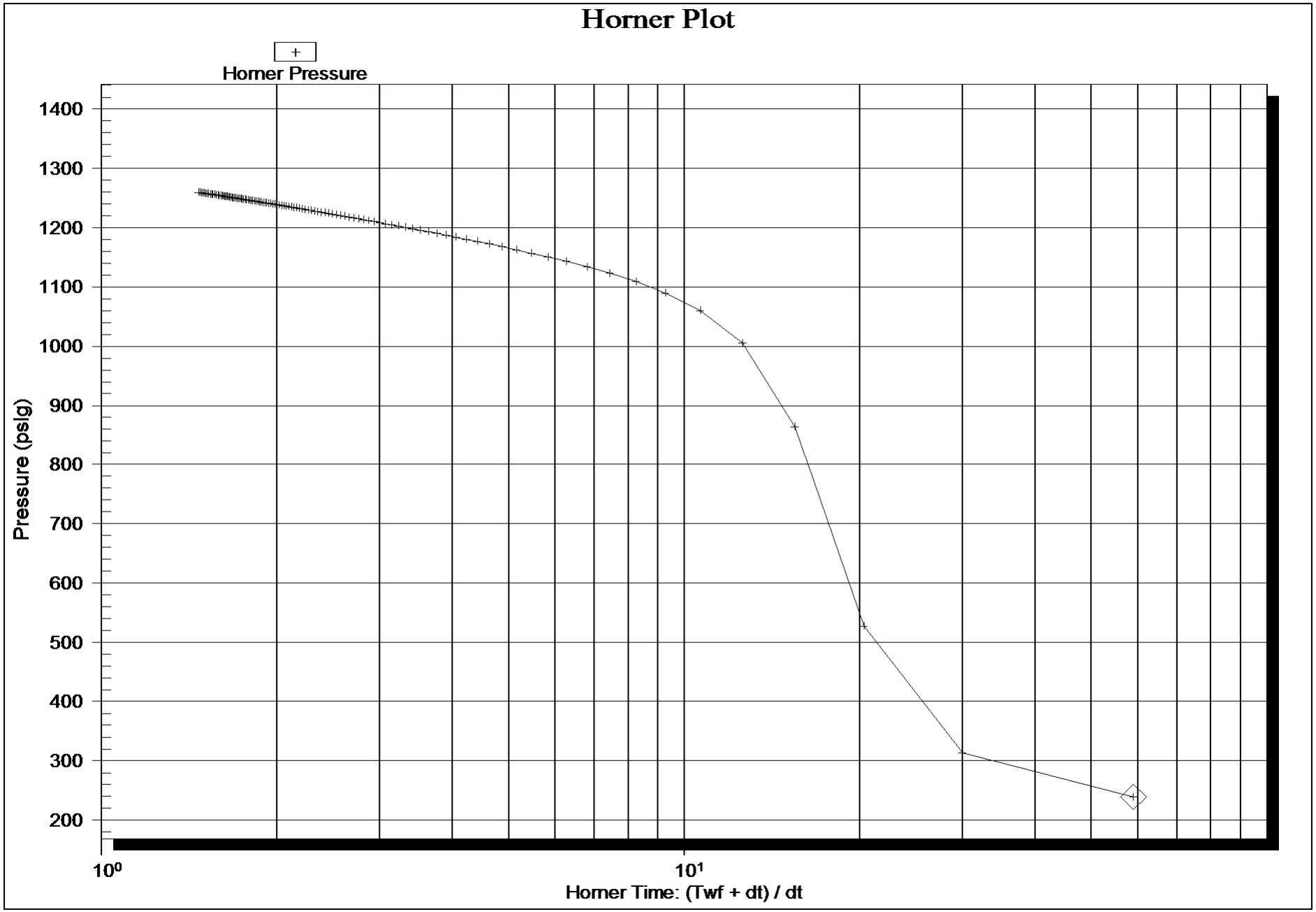


Trilobite Testing, Inc Ref. No: 51953 Printed: 2014.01.28 @ 17:51:08

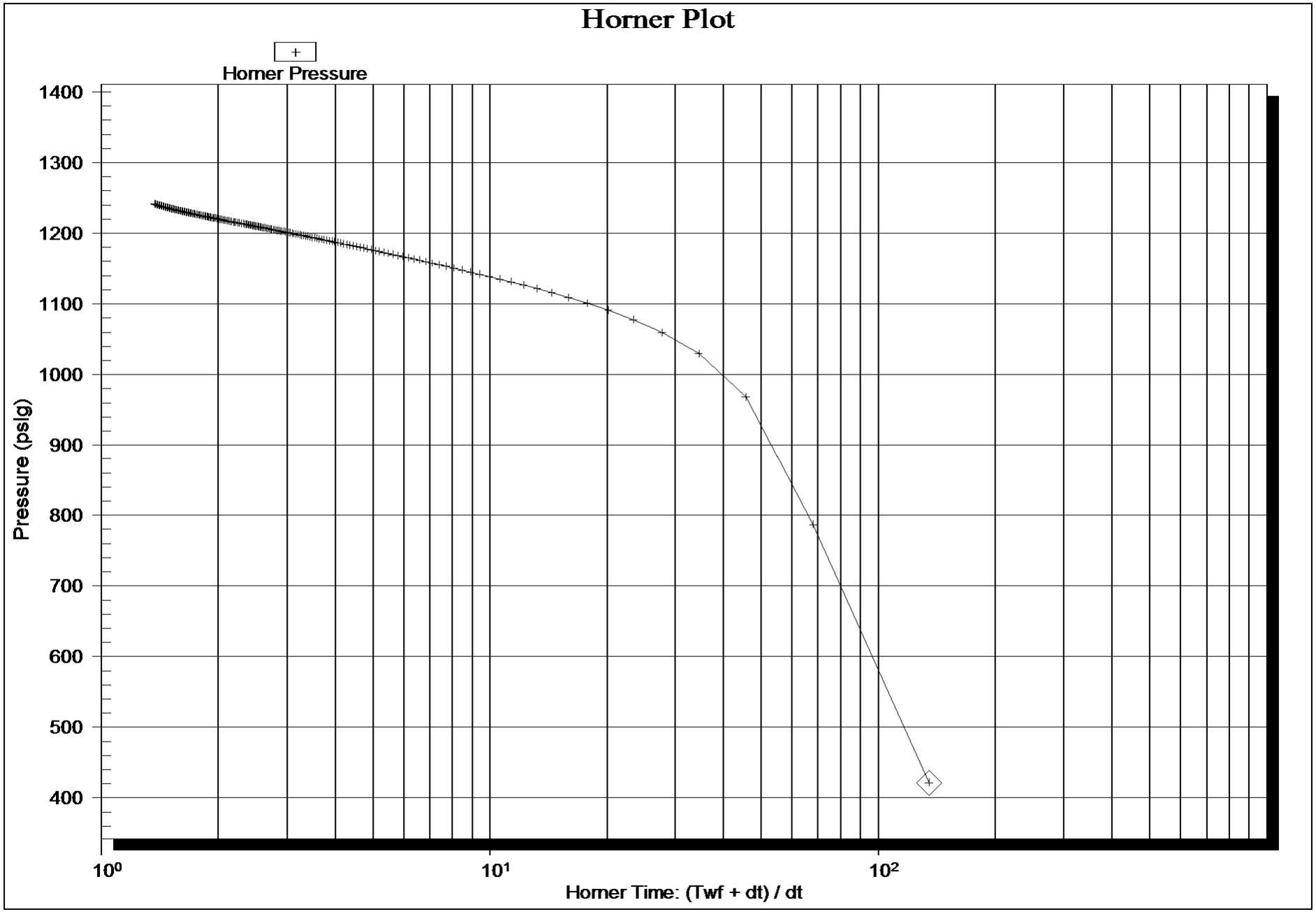
Serial #: 8367 **Outside** Ares Energy McCandless 15-3 DST Test Number: 3



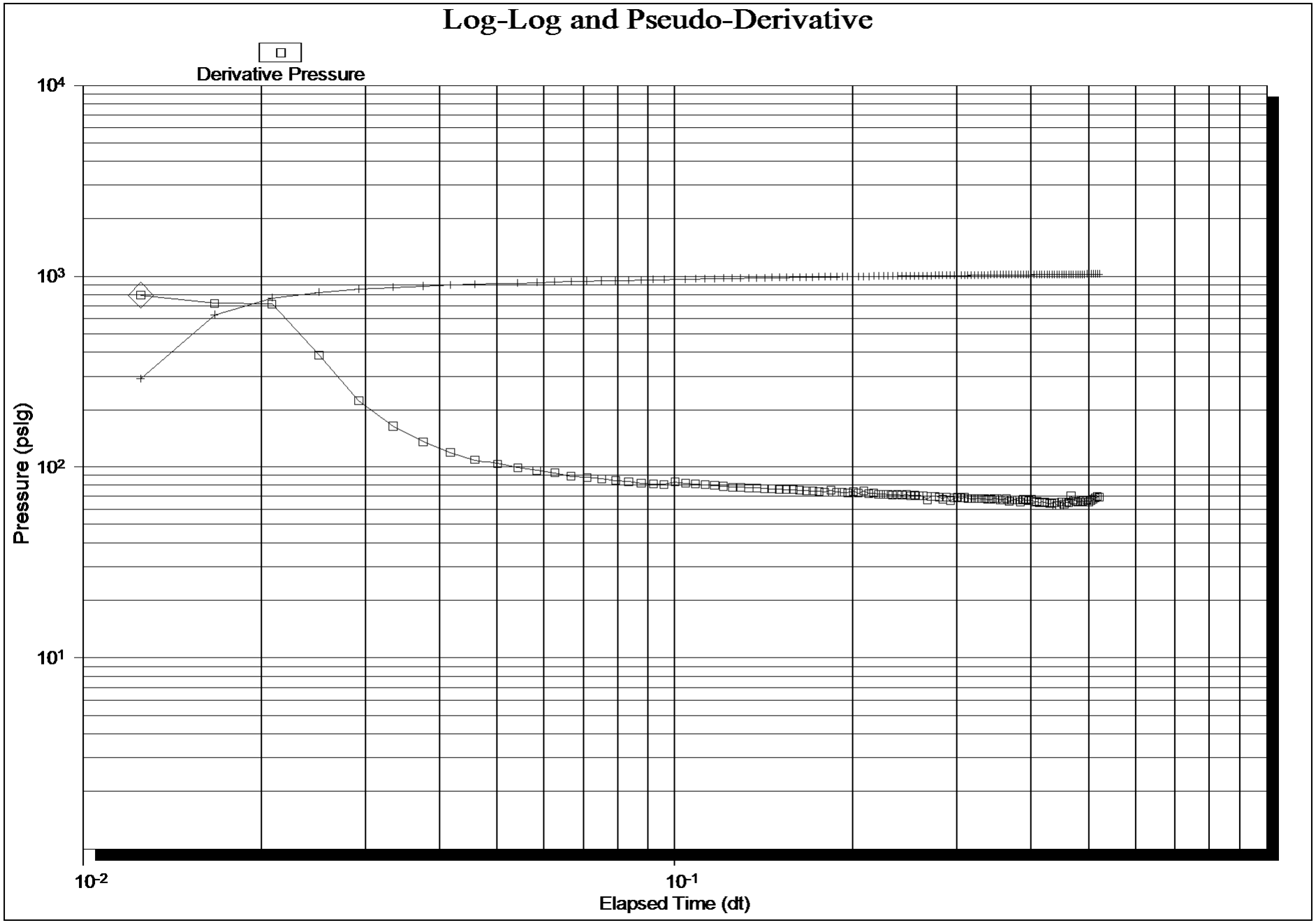
Trilobite Testing, Inc Ref. No: 51953 Printed: 2014.01.28 @ 17:51:08

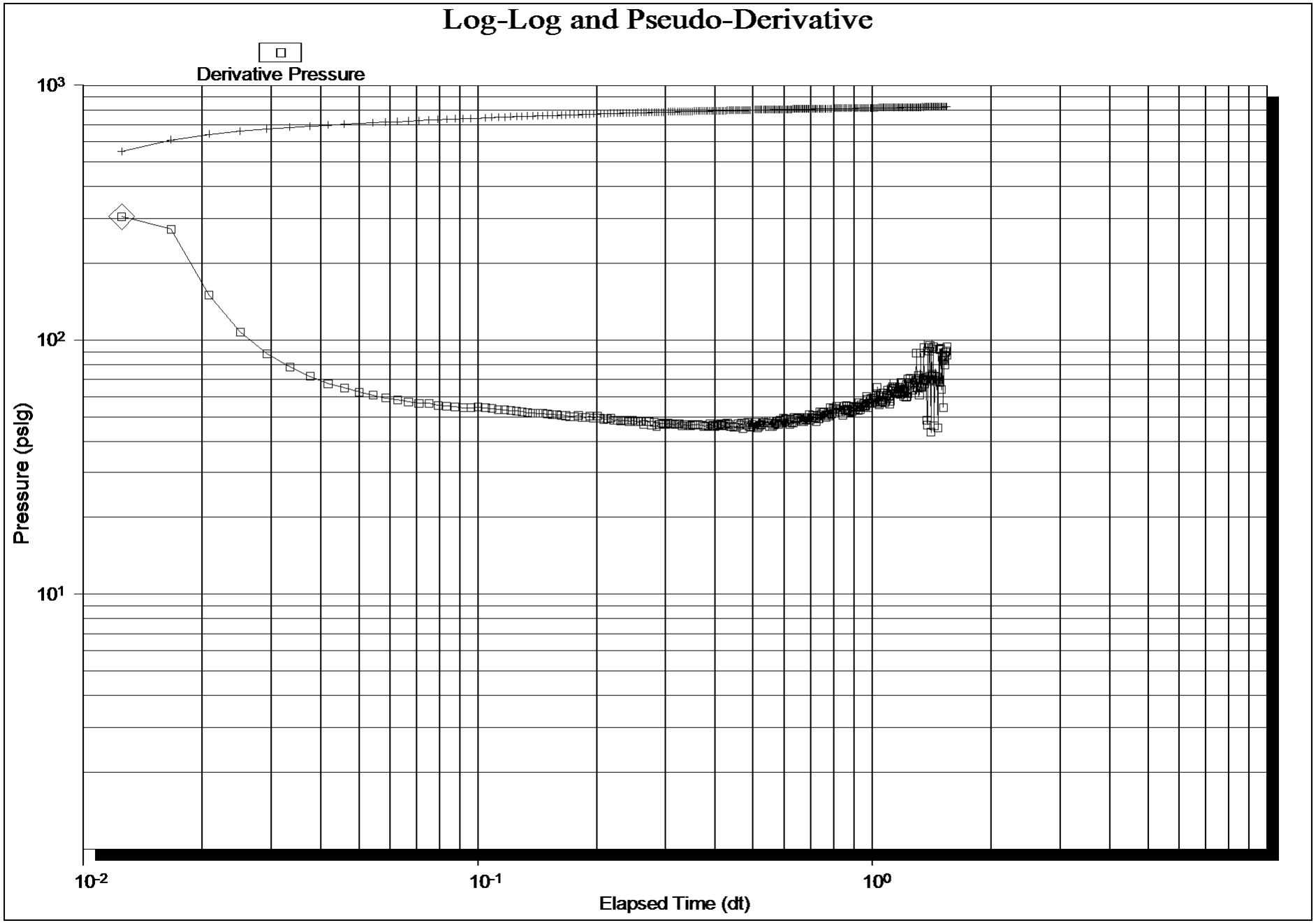


Serial Number: 6798 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 6798 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig)
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^3
10^2
10^1
Pressure (pslg)
10^-2
10^-1
10^0
Elapsed Time (dt)

DRILL STEM TEST REPORT

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51954 **DST#: 4**

Test Start: 2014.01.29 @ 03:59:53

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:28:08
Time Test Ended: 13:38:38

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4220.00 ft (KB) To 4273.00 ft (KB) (TVD)
Total Depth: 4273.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

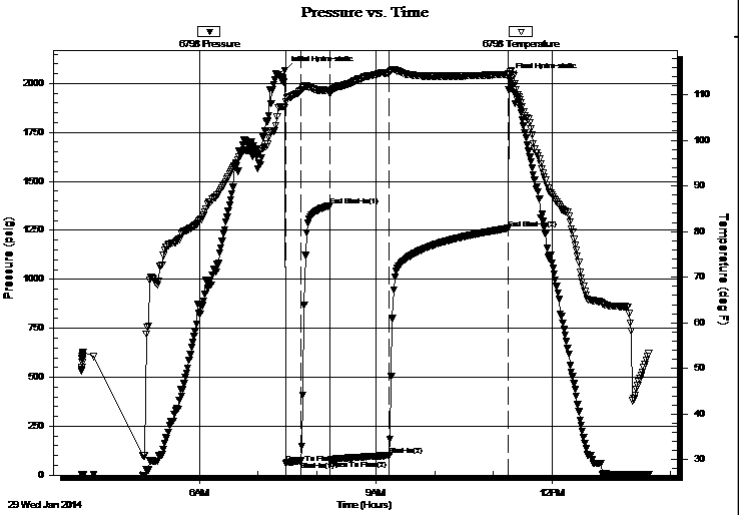
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 101.95 psig @ 4221.00 ft (KB)
Start Date: 2014.01.29 End Date: 2014.01.29
Start Time: 03:59:54 End Time: 13:38:38

Capacity: 8000.00 psig
Last Calib.: 2014.01.29
Time On Btm: 2014.01.29 @ 07:26:53
Time Off Btm: 2014.01.29 @ 11:15:53

TEST COMMENT: IF: Weak Surface Blow
ISI: No Blow Back
FF: Fair Blow , BOB in 36 minutes
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.29	107.15	Initial Hydro-static
2	62.02	108.33	Open To Flow (1)
17	72.89	110.81	Shut-In(1)
46	1376.49	110.88	End Shut-In(1)
46	76.03	110.10	Open To Flow (2)
107	101.95	114.88	Shut-In(2)
228	1260.34	114.45	End Shut-In(2)
229	2031.45	114.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	42 GIP	0.00
128.00	GOCM 10%G 10%O 80%M	0.63
62.00	GOCM 30%G 20%O 50%M	0.51
20.00	Oil	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ares Energy

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

15-23S-13W Stafford

McCandless 15-3

Job Ticket: 51954 **DST#: 4**

Test Start: 2014.01.29 @ 03:59:53

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7300.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	42 GIP	0.000
128.00	GOCM 10%G 10%O 80%M	0.629
62.00	GOCM 30%G 20%O 50%M	0.513
20.00	Oil	0.205

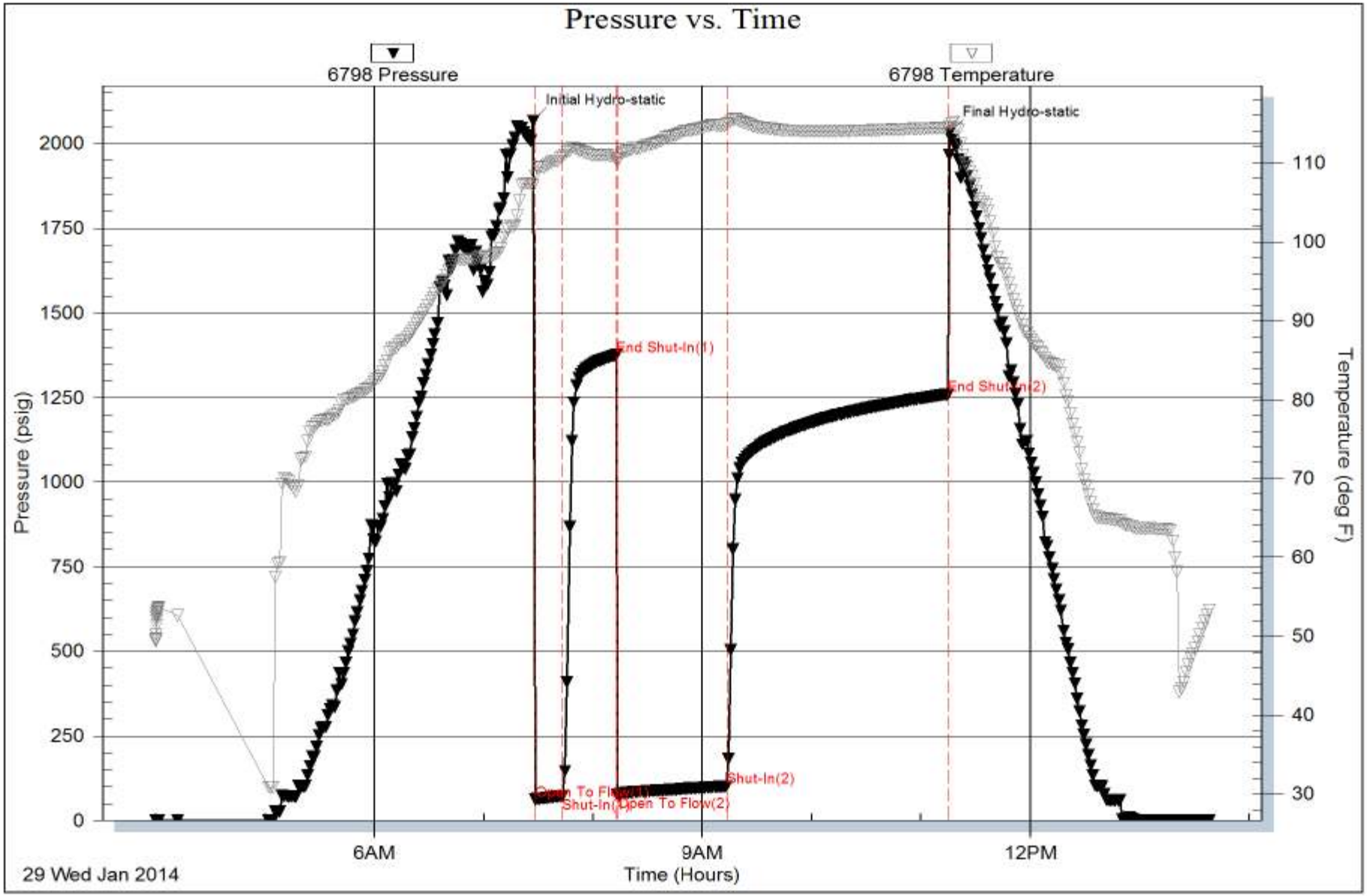
Total Length: 210.00 ft Total Volume: 1.347 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity w as 36 @ 50 degrees

Serial #: 6798 **Inside** Ares Energy McCandless 15-3 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 51954 Printed: 2014.01.29 @ 13:52:26