



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co
 225 N Market
 STE 300
 Wichita, Ks. 67202
 ATTN: Jamie Hess

20-7s-17w Rooks
Kriley "B" #5
 Job Ticket: 47344 **DST#: 1**
 Test Start: 2012.06.07 @ 21:54:05

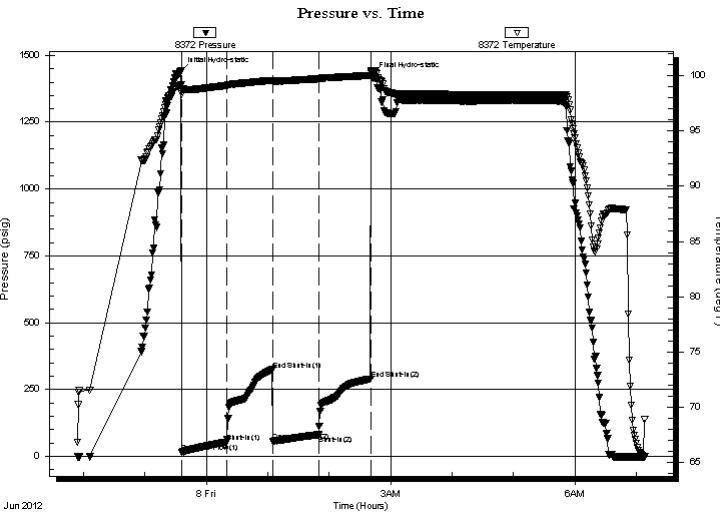
GENERAL INFORMATION:

Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:35:40
 Time Test Ended: 07:08:20
 Interval: **3050.00 ft (KB) To 3154.00 ft (KB) (TVD)**
 Total Depth: 3154.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1773.00 ft (KB)
 1768.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 81.19 psig @ 3055.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.07 End Date: 2012.06.08 Last Calib.: 2012.06.08
 Start Time: 21:54:05 End Time: 07:08:20 Time On Btm: 2012.06.07 @ 23:34:20
 Time Off Btm: 2012.06.08 @ 02:41:20

TEST COMMENT: IF:(45min) Weak surface blow
 IS:(45min) No Return
 FF:(45min) Weak surface blow
 FS:(45min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1438.43	99.09	Initial Hydro-static
2	15.84	98.30	Open To Flow (1)
46	54.03	99.10	Shut-In(1)
91	324.50	99.55	End Shut-In(1)
91	56.84	99.45	Open To Flow (2)
136	81.19	99.69	Shut-In(2)
186	289.74	99.99	End Shut-In(2)
187	1420.65	100.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW w / oil slight oil spks in tool	0.64

Gas Rates

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



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FLUID SUMMARY

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225 N Market
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ATTN: Jamie Hess

20-7s-17w Rooks
Kriley "B" #5
Job Ticket: 47344 **DST#: 1**
Test Start: 2012.06.07 @ 21:54:05

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: 16000 ppm	
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

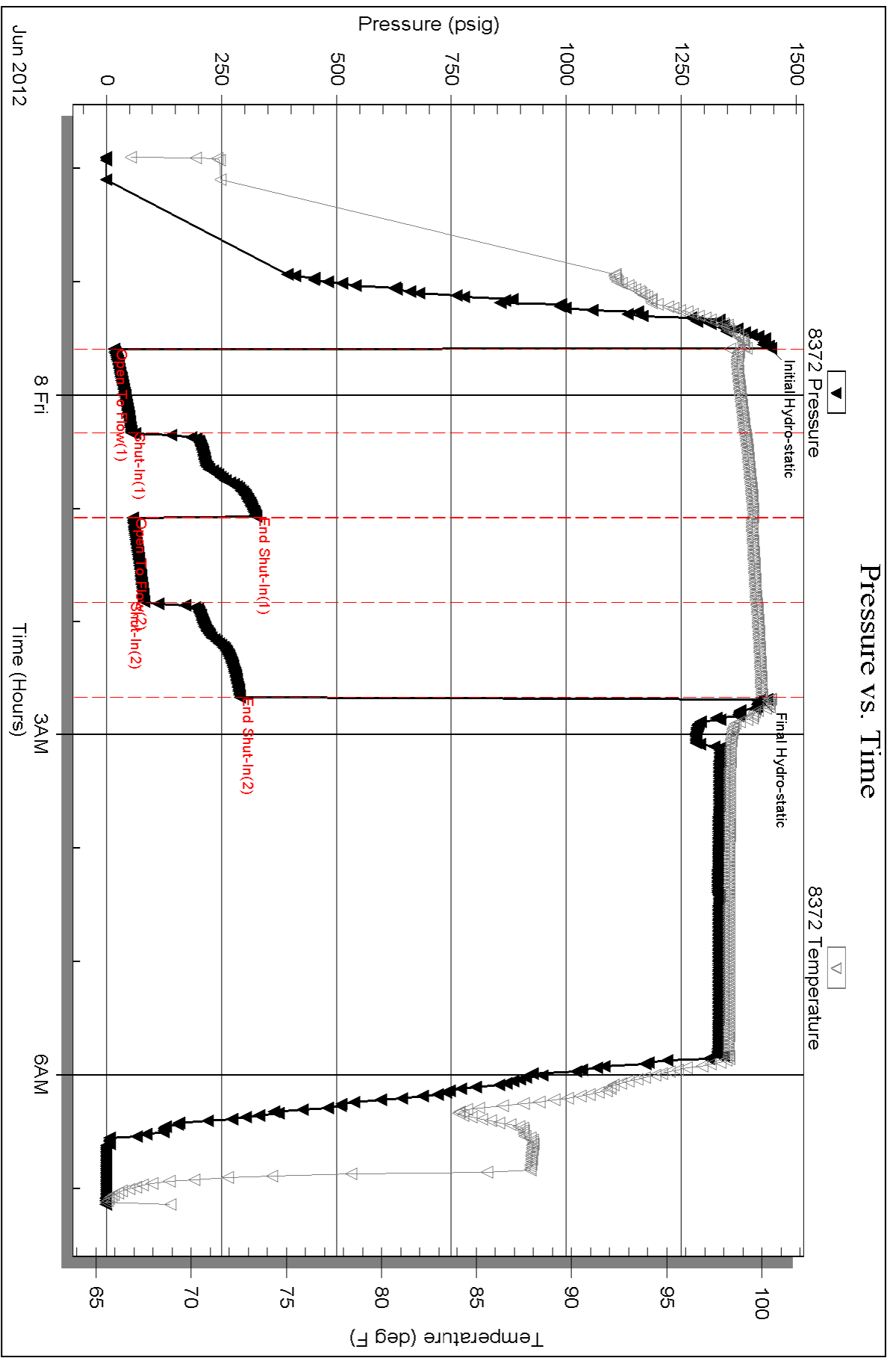
Length ft	Description	Volume bbl
130.00	MW w / oil slight oil spks in tool	0.639

Total Length: 130.00 ft Total Volume: 0.639 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





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Hess Oil Co
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20-7s-17w Rooks

Kriley "B" #5

Job Ticket: 47345

DST#: 2

Test Start: 2012.06.08 @ 20:44:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:36:00

Time Test Ended: 01:18:39

Interval: 3184.00 ft (KB) To 3274.00 ft (KB) (TVD)

Total Depth: 3274.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Reference Elevations: 1773.00 ft (KB)

1768.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 22.94 psig @ 3189.00 ft (KB)

Start Date: 2012.06.08

End Date:

2012.06.09

Start Time: 20:44:05

End Time:

01:18:40

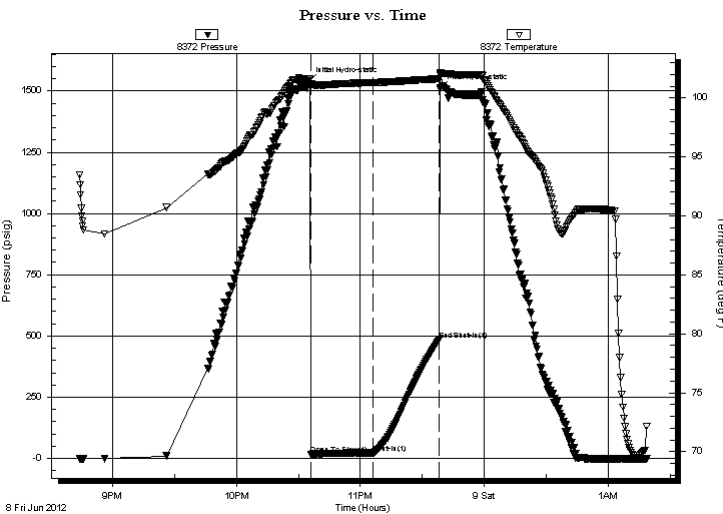
Capacity: 8000.00 psig

Last Calib.: 2012.06.09

Time On Btm: 2012.06.08 @ 22:34:50

Time Off Btm: 2012.06.08 @ 23:38:30

TEST COMMENT: IF:(30min) Surface blow, died in 1 min.
 IS:(30min) No Return Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.13	101.61	Initial Hydro-static
2	17.65	100.98	Open To Flow (1)
32	22.94	101.31	Shut-In(1)
64	484.73	101.63	End Shut-In(1)
64	1508.51	102.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spks in tool	0.02

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co
225 N Market
STE 300
Wichita, Ks. 67202
ATTN: Jamie Hess

20-7s-17w Rooks
Kriley "B" #5
Job Ticket: 47345 **DST#: 2**
Test Start: 2012.06.08 @ 20:44:05

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: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spks in tool	0.025

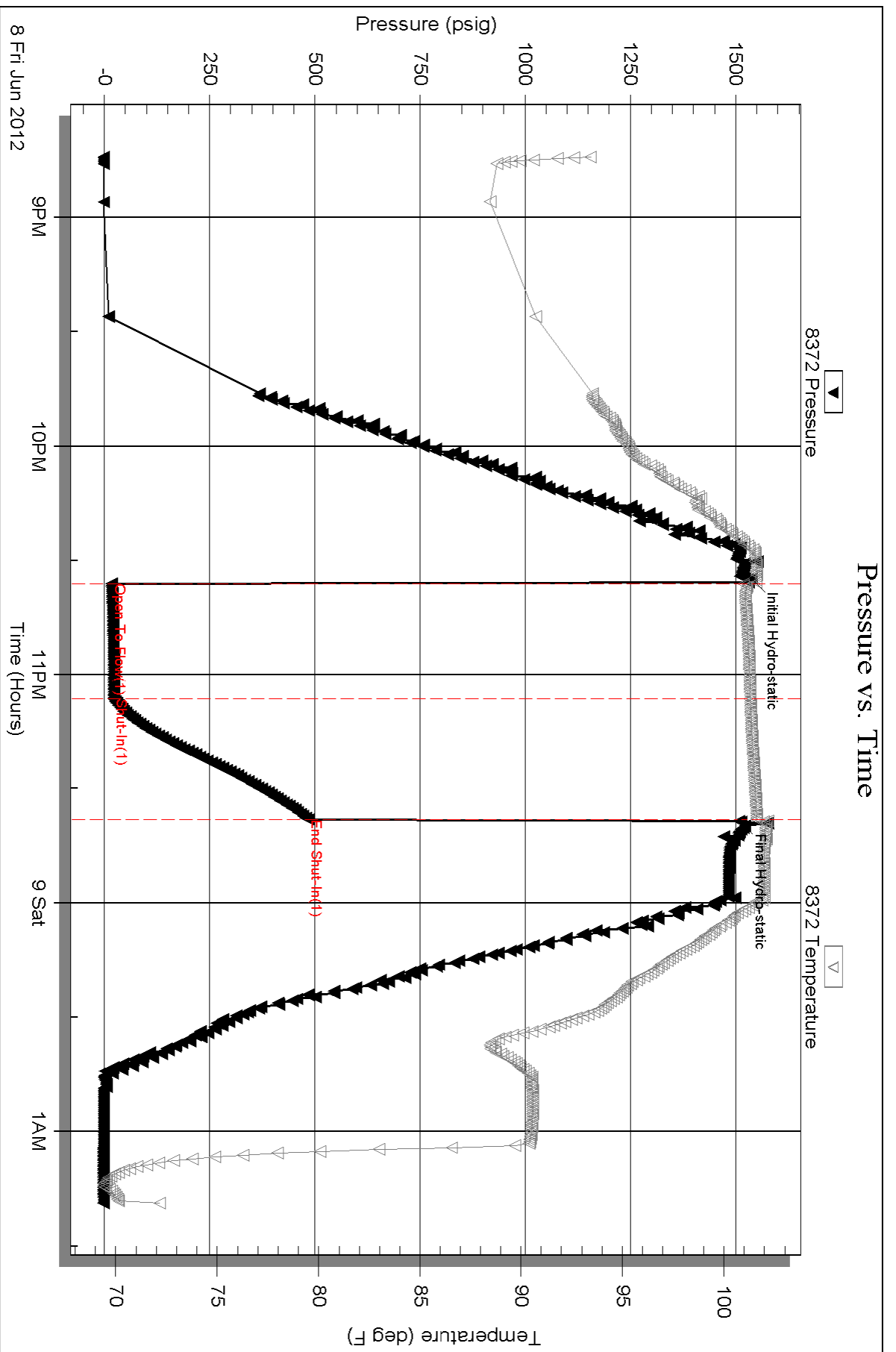
Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8372

Outside Hess Oil Co

Kriley "B" #5

DST Test Number: 2



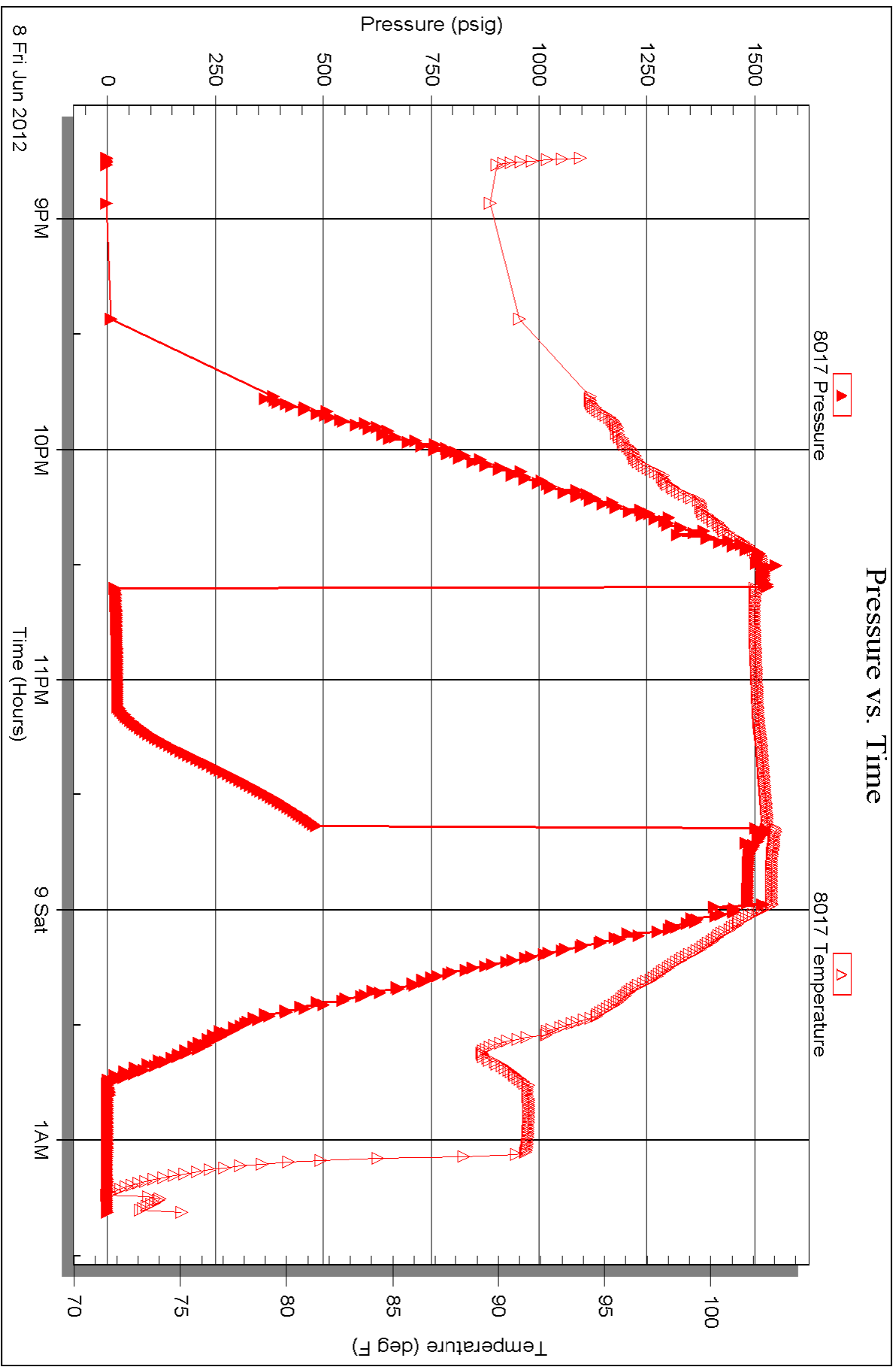
Serial #: 8017

Inside

Hess Oil Co

Kriley "B" #5

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co
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 STE 300
 Wichita, Ks. 67202
 ATTN: Jamie Hess

20-7s-17w Rooks

Kriley "B" #5

Job Ticket: 47346

DST#: 3

Test Start: 2012.06.09 @ 09:32:05

GENERAL INFORMATION:

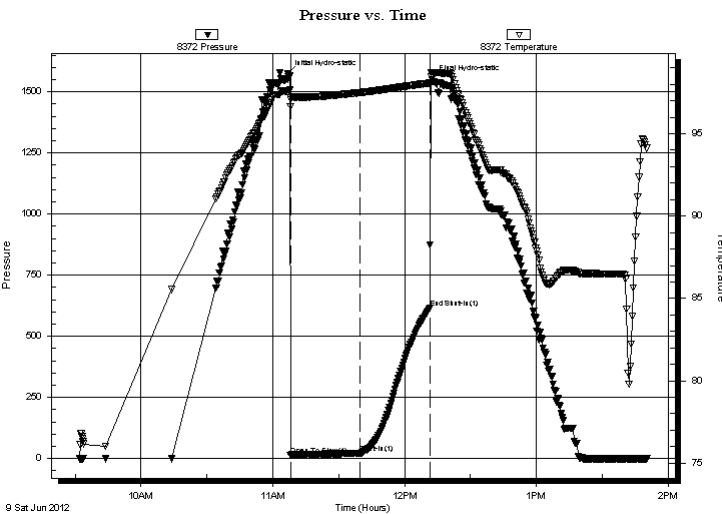
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:08:00
 Time Test Ended: 13:50:20
 Interval: **3250.00 ft (KB) To 3285.00 ft (KB) (TVD)**
 Total Depth: 3285.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1773.00 ft (KB)
 1768.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372

Outside

Press @ Run Depth: 21.06 psig @ 3251.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.09 End Date: 2012.06.09 Last Calib.: 2012.06.09
 Start Time: 09:32:05 End Time: 13:50:20 Time On Btm: 2012.06.09 @ 11:06:50
 Time Off Btm: 2012.06.09 @ 12:12:30

TEST COMMENT: IF:(30min) Surface blow, died in 5 min.
 IS:(30min) No Return, Pulled Tool.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.27	97.54	Initial Hydro-static
2	13.78	96.66	Open To Flow (1)
33	21.06	97.50	Shut-In(1)
65	614.89	98.08	End Shut-In(1)
66	1549.51	98.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil spks in tool	0.05

Gas Rates

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

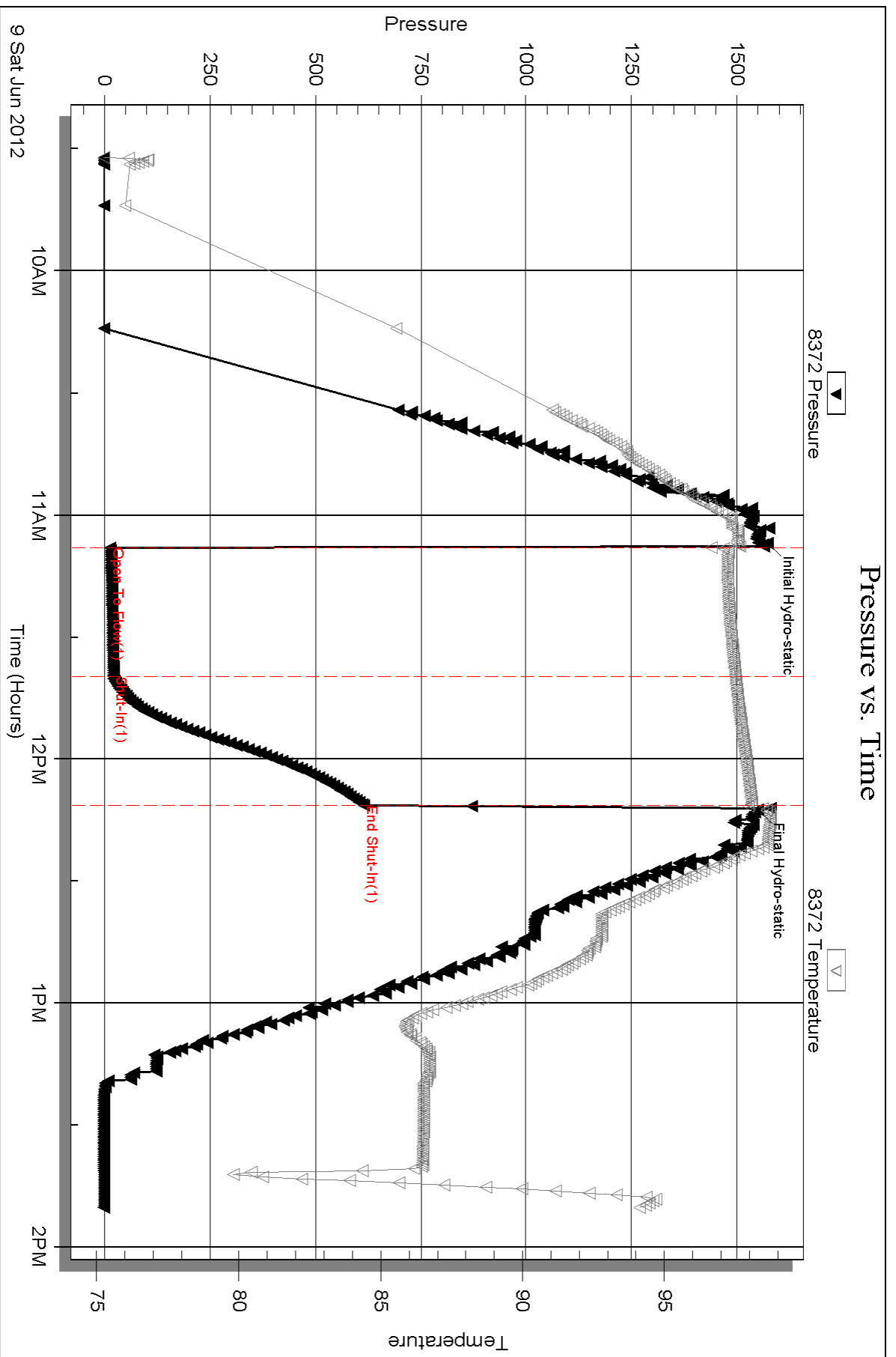
* Recovery from multiple tests

Serial #: 8372

Outside Hess Oil Co

Kriley "B" #5

DST Test Number: 3



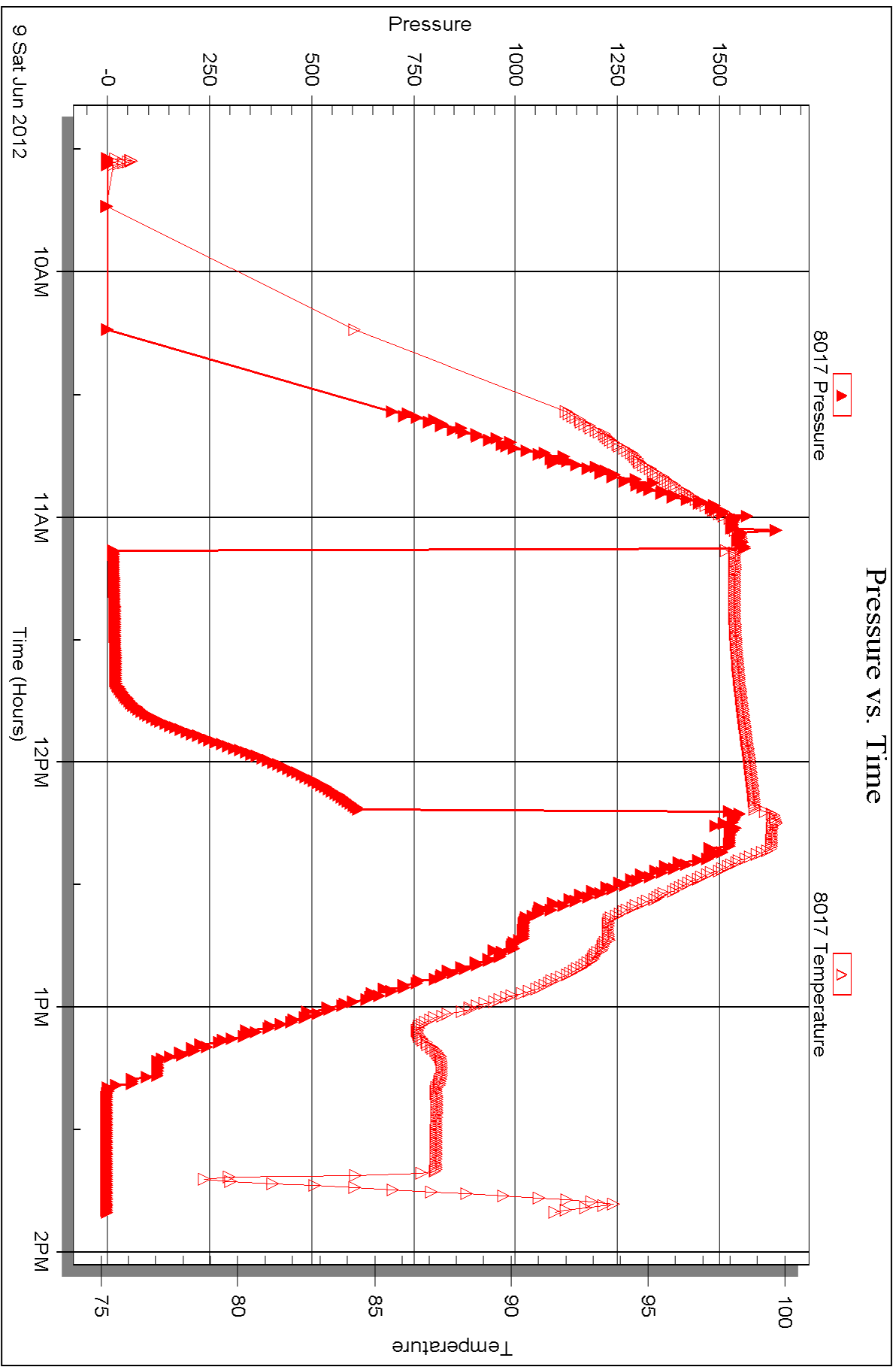
Serial #: 8017

Inside

Hess Oil Co

Kriley "B" #5

DST Test Number: 3





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ATTN: Jamie Hess

20-7s-17w Rooks

Kriley "B" #5

Job Ticket: 47347

DST#: 4

Test Start: 2012.06.09 @ 18:03:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:56:00
 Time Test Ended: 22:33:29
 Interval: **3285.00 ft (KB) To 3296.00 ft (KB) (TVD)**
 Total Depth: 3296.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1773.00 ft (KB)
 1768.00 ft (CF)
 KB to GR/CF: 5.00 ft

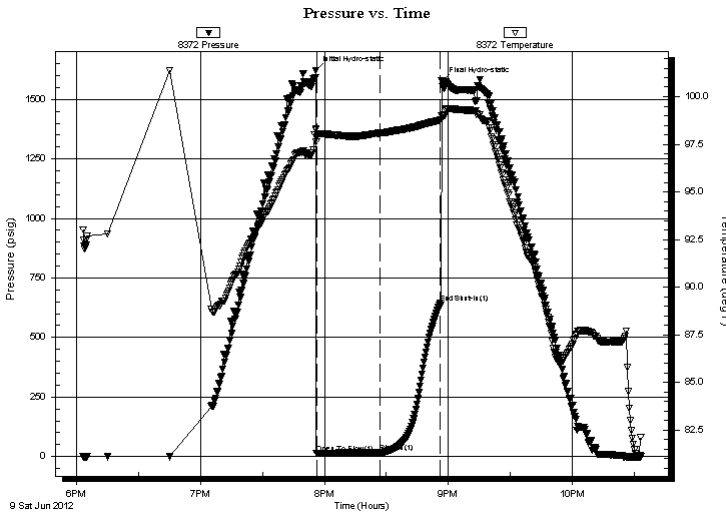
Serial #: 8372

Outside

Press @ Run Depth: 15.90 psig @ 3286.00 ft (KB)
 Start Date: 2012.06.09 End Date: 2012.06.09
 Start Time: 18:03:05 End Time: 22:33:29
 Capacity: 8000.00 psig
 Last Calib.: 2012.06.09
 Time On Btm: 2012.06.09 @ 19:55:50
 Time Off Btm: 2012.06.09 @ 20:56:50

TEST COMMENT: IF:(30min) Blow died in 2 min.
 IS:(30min) No Return, Pulled Tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.74	98.30	Initial Hydro-static
1	14.07	97.65	Open To Flow (1)
32	15.90	98.09	Shut-In(1)
61	643.71	98.76	End Shut-In(1)
61	1575.97	98.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud w / oil spks in tool	0.01

Gas Rates

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

* Recovery from multiple tests



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20-7s-17w Rooks
Kriley "B" #5
Job Ticket: 47347 **DST#: 4**
Test Start: 2012.06.09 @ 18:03:05

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

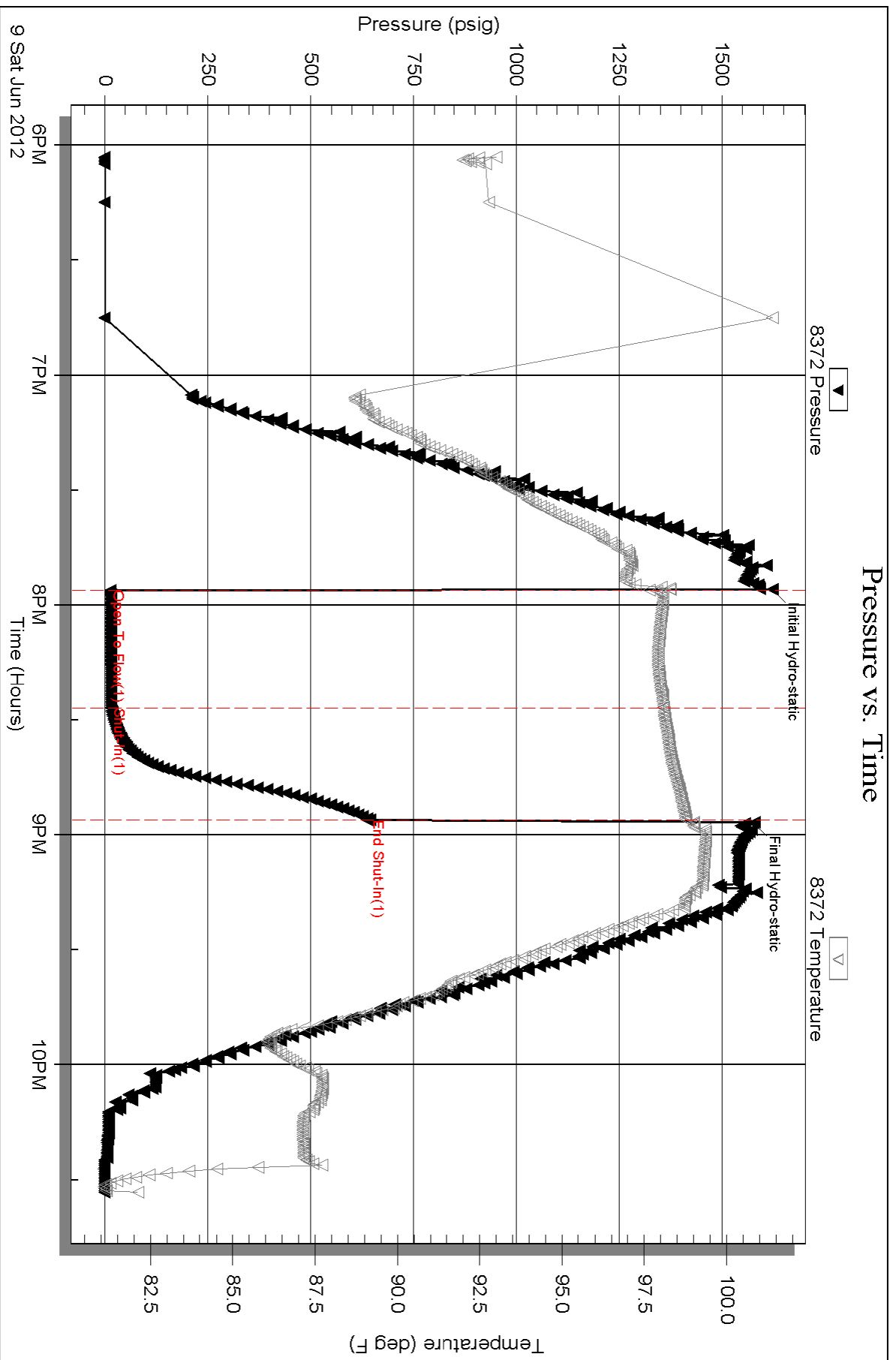
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud w / oil spks in tool	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



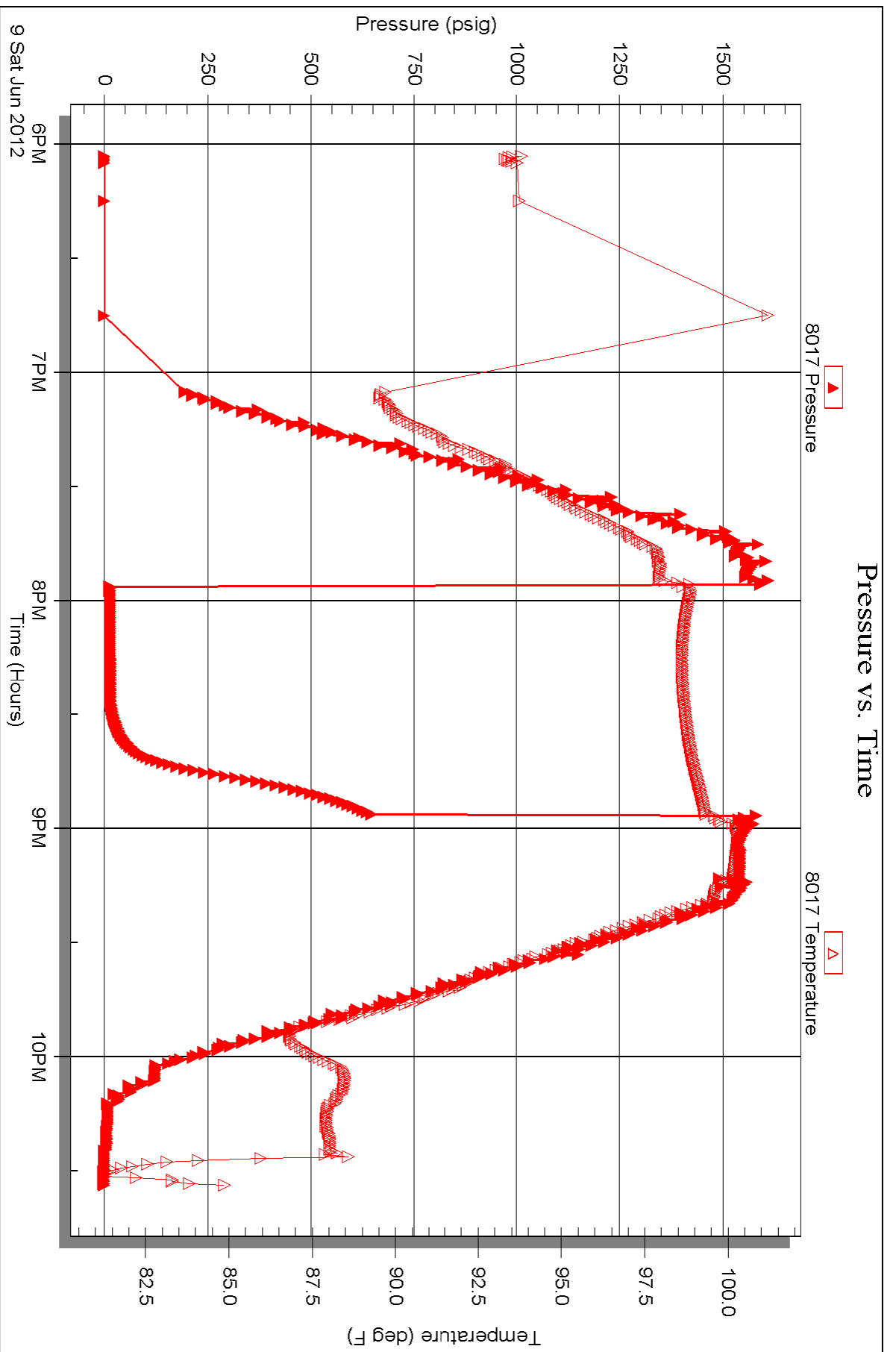
Serial #: 8017

Inside

Hess Oil Co

Kriley "B" #5

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 47347

Printed: 2012.06.10 @ 06:14:12



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DRILL STEM TEST REPORT

Hess Oil Co
225 N Market
STE 300
Wichita, Ks. 67202
ATTN: Jamie Hess

20-7s-17w Rooks

Kriley "B" #5

Job Ticket: 47348

DST#: 5

Test Start: 2012.06.10 @ 03:23:05

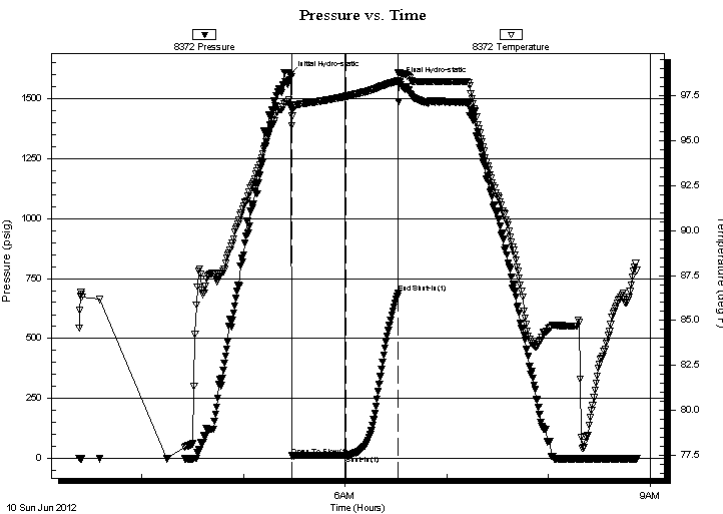
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:28:40
 Time Test Ended: 08:52:29
 Interval: **3294.00 ft (KB) To 3306.00 ft (KB) (TVD)**
 Total Depth: 3306.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1773.00 ft (KB)
 1768.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 13.43 psig @ 3295.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.10 End Date: 2012.06.10 Last Calib.: 2012.06.10
 Start Time: 03:23:05 End Time: 08:52:29 Time On Btm: 2012.06.10 @ 05:27:40
 Time Off Btm: 2012.06.10 @ 06:32:00

TEST COMMENT: IF:(30min) Blow died in 2 min
 IS:(30min) No Return Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.28	96.97	Initial Hydro-static
1	11.18	95.84	Open To Flow (1)
33	13.43	97.47	Shut-In(1)
64	688.16	98.33	End Shut-In(1)
65	1571.36	98.81	Final Hydro-static

Recovery

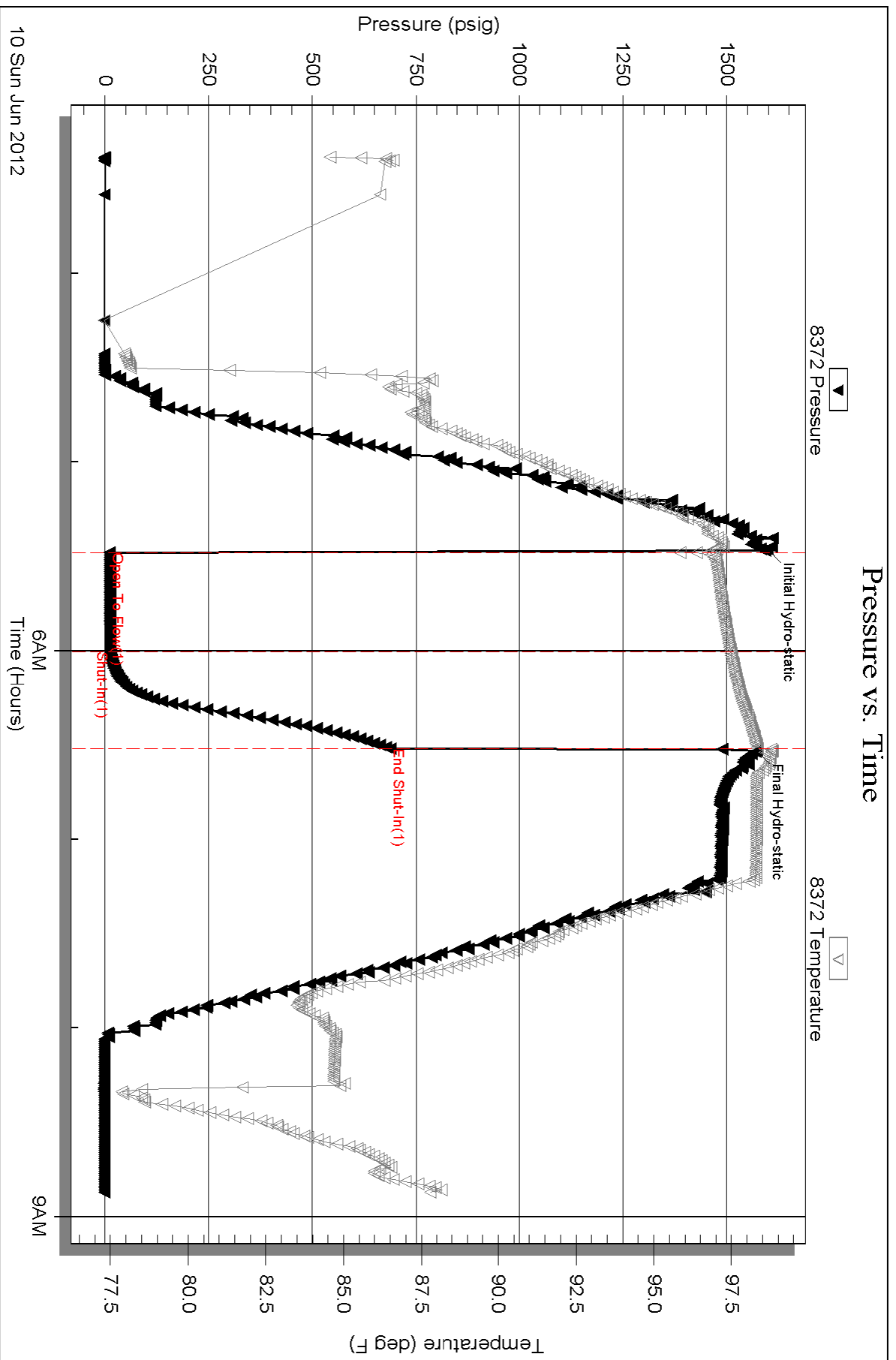
Length (ft)	Description	Volume (bbl)
1.00	Mud w / oil spks in tool	0.00

Gas Rates

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

* Recovery from multiple tests

Pressure vs. Time



Serial #: 8017

Inside

Hess Oil Co

Kriley "B" #5

DST Test Number: 5

