



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

36-11s-22w Trego, KS

North Fork Farms #36-1

Start Date: 2014.11.12 @ 17:45:00

End Date: 2014.11.13 @ 03:28:30

Job Ticket #: 62481 DST #: 1

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

Printed: 2014.11.17 @ 16:46:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62481

DST#: 1

Test Start: 2014.11.12 @ 17:45:00

GENERAL INFORMATION:

Formation: **L.K.C. " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:14:30

Time Test Ended: 03:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

Interval: 3730.00 ft (KB) To 3746.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 3746.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772

Inside

Press@RunDepth: 14.34 psig @ 3733.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.12

End Date:

2014.11.13

Last Calib.: 2014.11.13

Start Time: 17:45:05

End Time:

03:28:30

Time On Btm: 2014.11.12 @ 23:14:00

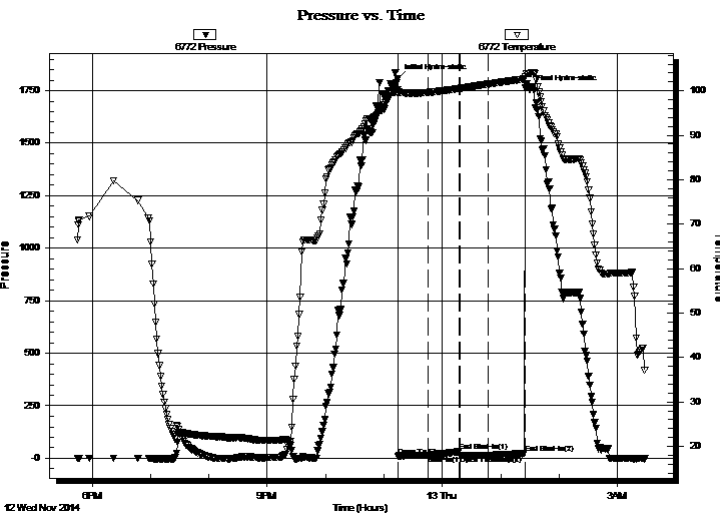
Time Off Btm: 2014.11.13 @ 01:29:15

TEST COMMENT: I.F. - 30 - Weak blow built to 1"

I.S.I. -30 - No blow back

F.F. - 30 - Weak surface blow throughout

F.S.I. -30 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1807.83	100.29	Initial Hydro-static
1	10.81	99.45	Open To Flow (1)
32	13.34	99.64	Shut-In(1)
64	31.56	100.53	End Shut-In(1)
64	13.60	100.53	Open To Flow (2)
93	14.34	101.51	Shut-In(2)
131	22.63	102.68	End Shut-In(2)
136	1757.38	103.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	S,O,S,M, 100%M FEW OIL SPECS	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62481

DST#: 1

Test Start: 2014.11.12 @ 17:45:00

GENERAL INFORMATION:

Formation: **L.K.C. " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:14:30

Time Test Ended: 03:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

Interval: 3730.00 ft (KB) To 3746.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 3746.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Outside

Press@RunDepth: psig @ 3733.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.12

End Date:

2014.11.13

Last Calib.:

2014.11.13

Start Time:

17:45:05

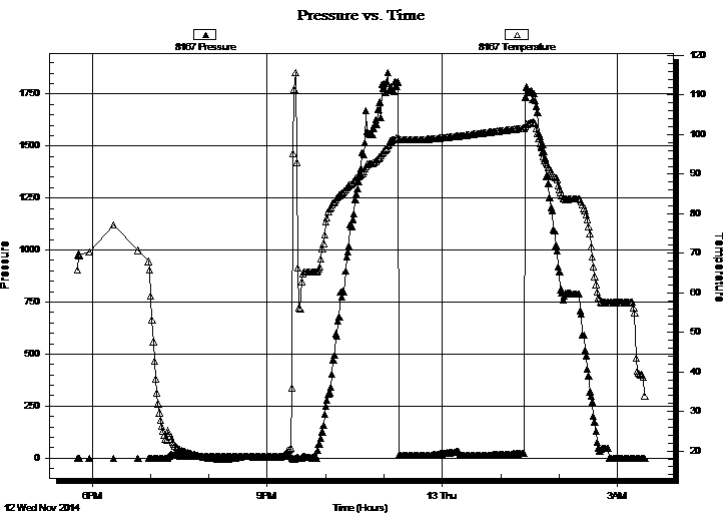
End Time:

03:28:15

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 30 - Weak blow built to 1"
I.S.I. - 30 - No blow back
F.F. - 30 - Weak surface blow throughout
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	S,O,S,M, 100%M FEW OIL SPECS	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62481

DST#: 1

ATTN: Mark Downing

Test Start: 2014.11.12 @ 17:45:00

Tool Information

Drill Pipe:	Length: 3695.00 ft	Diameter: 3.80 inches	Volume: 51.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3730.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3711.00	
Shut In Tool	5.00			3716.00	
Hydraulic tool	5.00			3721.00	
Packer	5.00			3726.00	20.00 Bottom Of Top Packer
Packer	4.00			3730.00	
Stubb	1.00			3731.00	
Perforations	2.00			3733.00	
Recorder	0.00	6772	Inside	3733.00	
Recorder	0.00	8167	Outside	3733.00	
Perforations	10.00			3743.00	
Bullnose	3.00			3746.00	16.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62481

DST#: 1

ATTN: Mark Downing

Test Start: 2014.11.12 @ 17:45:00

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:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	S,O,S,M, 100%M FEW OIL SPECS	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

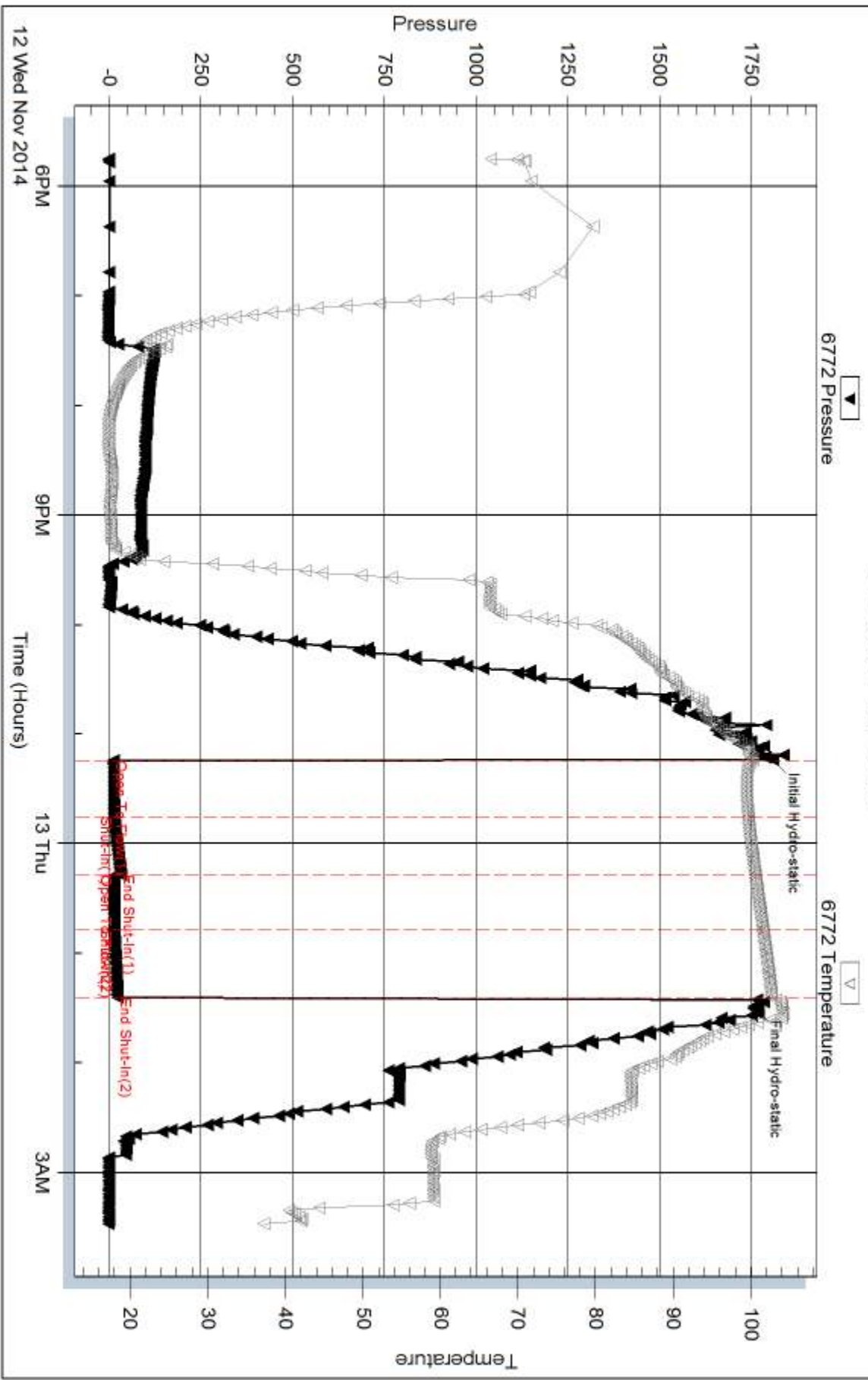
Inside

H&C Oil Operating

36-11s-22w Trego,KS

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62481

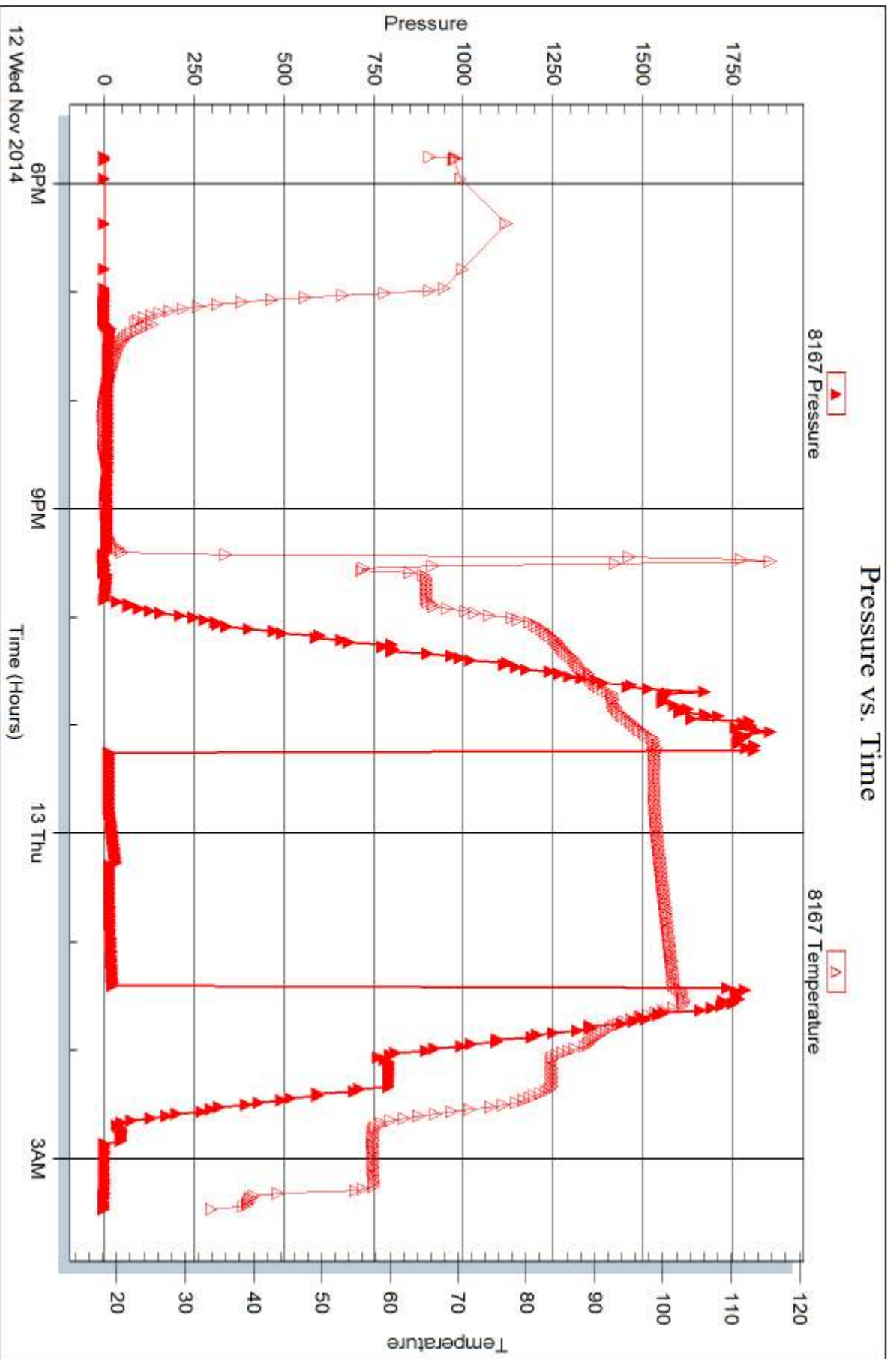
Printed: 2014.11.17 @ 16:46:33

Serial #: 8167

Outside H&C Oil Operating

36-11s-22w Trego,KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62481

Printed: 2014.11.17 @ 16:46:33



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

36-11s-22w Trego,KS

North Fork Farms #36-1

Start Date: 2014.11.13 @ 18:45:00

End Date: 2014.11.14 @ 02:28:15

Job Ticket #: 62482 DST #: 2

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

Printed: 2014.11.17 @ 16:46:09

H&C Oil Operating

North Fork Farms #36-1

36-11s-22w Trego,KS

DST # 2

LKC " J-K "

2014.11.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62482

DST#: 2

Test Start: 2014.11.13 @ 18:45:00

GENERAL INFORMATION:

Formation: **LKC " J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:27:45

Time Test Ended: 02:28:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 3838.00 ft (KB) To 3879.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 3879.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press@RunDepth: 27.53 psig @ 3842.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.13

End Date:

2014.11.14

Last Calib.: 2014.11.14

Start Time: 18:45:05

End Time:

02:28:14

Time On Btm: 2014.11.13 @ 21:27:00

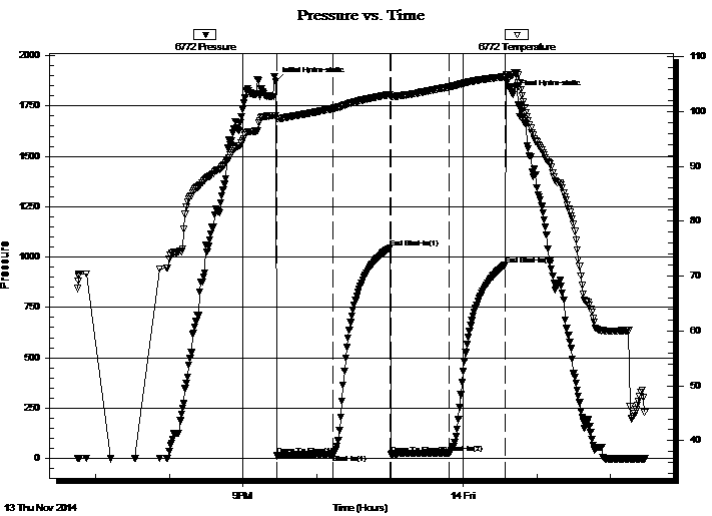
Time Off Btm: 2014.11.14 @ 00:40:30

TEST COMMENT: I.F. - 45 - Weak blow built to 2"

I.S.I. - 45 - No blow back

F.F. - 45 - Weak blow built to 1 1/4"

F.S.I. - 45 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.56	99.17	Initial Hydro-static
1	13.85	98.71	Open To Flow (1)
47	20.94	100.50	Shut-In(1)
93	1045.85	103.06	End Shut-In(1)
94	22.51	102.71	Open To Flow (2)
142	27.53	104.45	Shut-In(2)
187	960.50	106.31	End Shut-In(2)
194	1807.62	106.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

North Fork Farms #36-1

36-11s-22w Trego, KS

Job Ticket: 62482

DST#: 2

Test Start: 2014.11.13 @ 18:45:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:27:45
 Time Test Ended: 02:28:15
 Interval: **3838.00 ft (KB) To 3879.00 ft (KB) (TVD)**
 Total Depth: 3879.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 72
 Reference Elevations: 2371.00 ft (KB)
 2364.00 ft (CF)
 KB to GR/CF: 7.00 ft

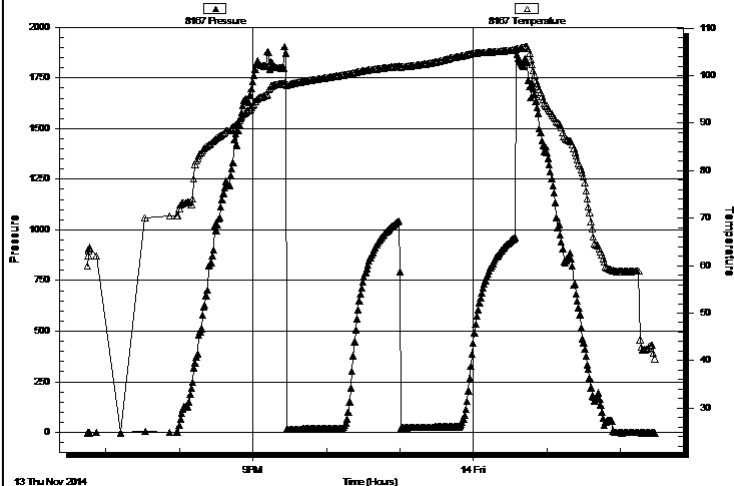
Serial #: 8167

Outside

Press@RunDepth: psig @ 3842.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.13 End Date: 2014.11.14 Last Calib.: 2014.11.14
 Start Time: 18:45:05 End Time: 02:28:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: I.F. - 45 - Weak blow built to 2"
 I.S.I. - 45 - No blow back
 F.F. - 45 - Weak blow built to 1 1/4"
 F.S.I. - 45 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62482

DST#: 2

ATTN: Mark Downing

Test Start: 2014.11.13 @ 18:45:00

Tool Information

Drill Pipe:	Length: 3821.00 ft	Diameter: 3.80 inches	Volume: 53.60 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 53.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3838.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3819.00	
Shut In Tool	5.00			3824.00	
Hydraulic tool	5.00			3829.00	
Packer	5.00			3834.00	20.00 Bottom Of Top Packer
Packer	4.00			3838.00	
Stubb	1.00			3839.00	
Perforations	2.00			3841.00	
Change Over Sub	1.00			3842.00	
Recorder	0.00	6772	Inside	3842.00	
Recorder	0.00	8167	Outside	3842.00	
Drill Pipe	32.00			3874.00	
Change Over Sub	1.00			3875.00	
Perforations	1.00			3876.00	
Bullnose	3.00			3879.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62482

DST#: 2

ATTN: Mark Downing

Test Start: 2014.11.13 @ 18:45:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

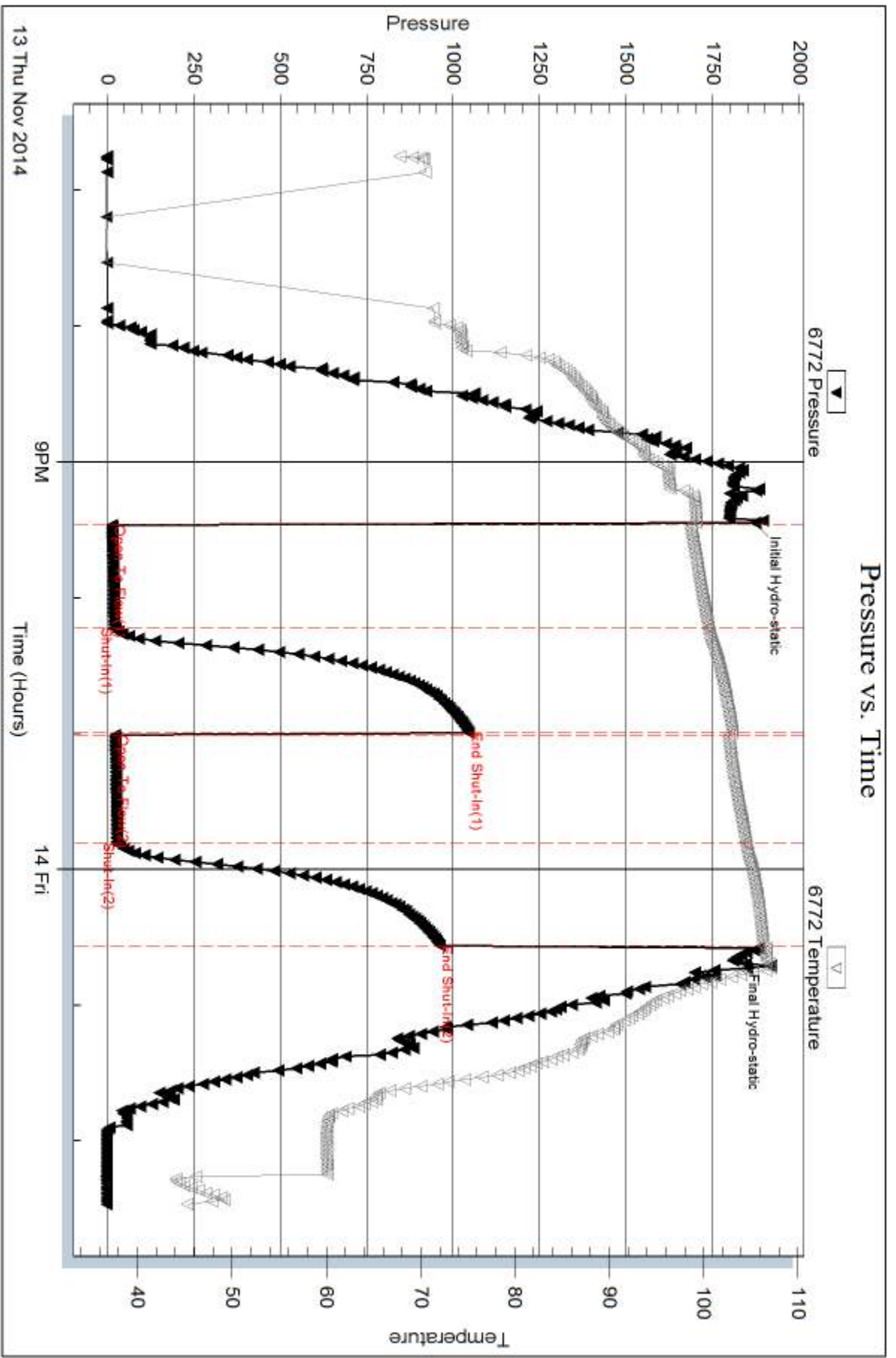
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

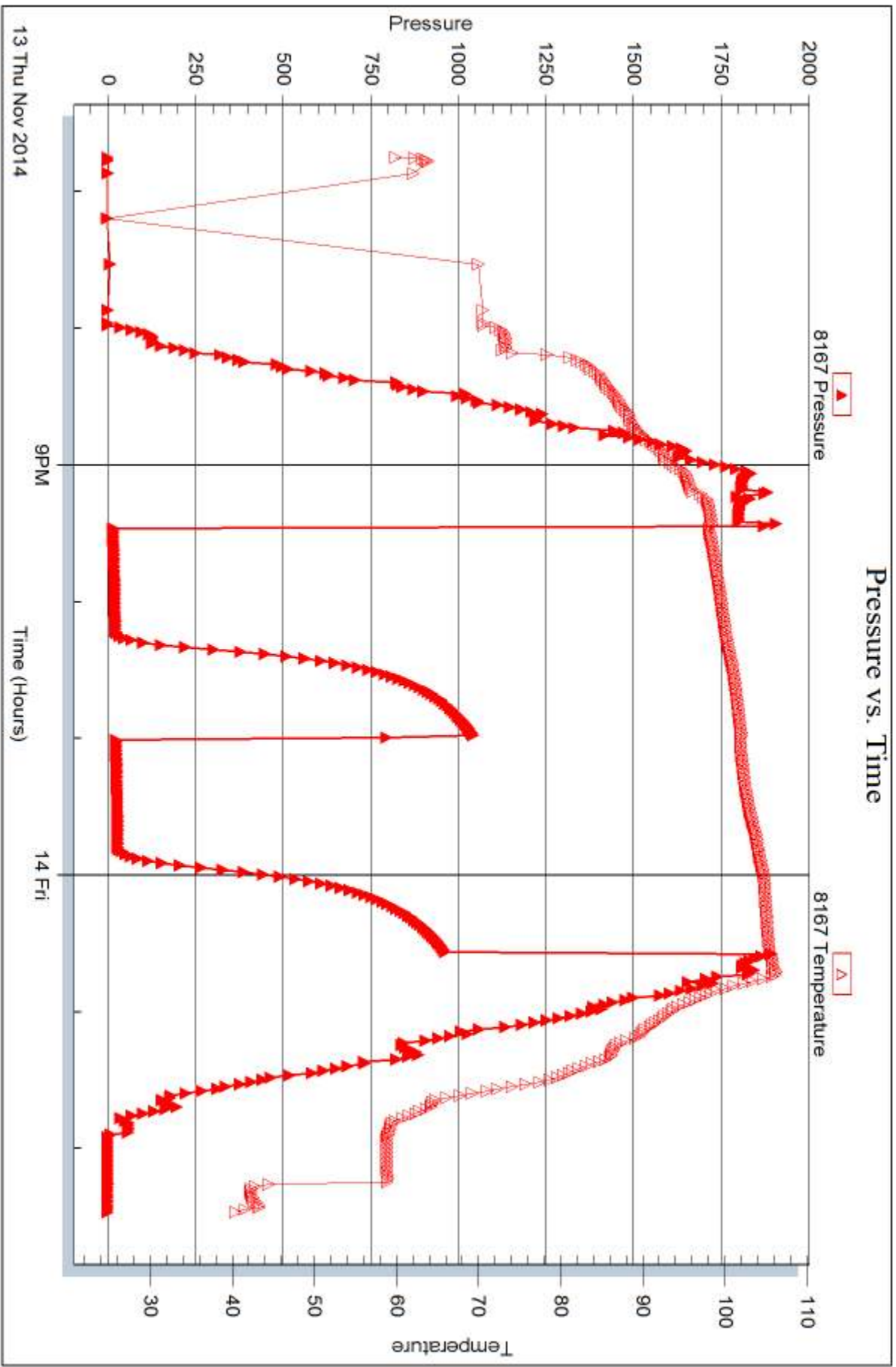


Serial #: 8167

Outside H&C Oil Operating

36-11s-22w Trego, KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

36-11s-22w Trego,KS

North Fork Farms #36-1

Start Date: 2014.11.14 @ 16:08:00

End Date: 2014.11.15 @ 00:06:00

Job Ticket #: 62483 DST #: 3

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

Printed: 2014.11.17 @ 16:45:43

H&C Oil Operating

North Fork Farms #36-1

36-11s-22w Trego,KS

DST # 3

Marmaton

2014.11.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62483

DST#: 3

Test Start: 2014.11.14 @ 16:08:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:45

Time Test Ended: 00:06:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 3983.00 ft (KB) To 4015.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 4015.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press@RunDepth: 27.78 psig @ 3986.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.14

End Date:

2014.11.15

Last Calib.: 2014.11.15

Start Time: 16:08:05

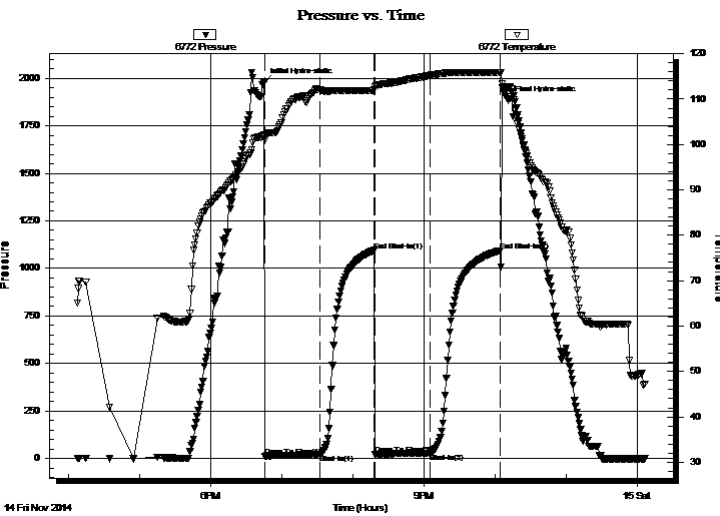
End Time:

00:05:59

Time On Btm: 2014.11.14 @ 18:45:15

Time Off Btm: 2014.11.14 @ 22:10:45

TEST COMMENT: I.F. - 45 - Weak blow built to 2"
I.S.I. - 45 - Weak surface blow back at 20 min
F.F. - 45 - Weak blow built to 1"
F.S.I. - 45 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1976.70	102.15	Initial Hydro-static
1	10.68	100.93	Open To Flow (1)
47	21.08	112.02	Shut-In(1)
93	1094.84	111.94	End Shut-In(1)
94	23.13	112.63	Open To Flow (2)
140	27.78	115.21	Shut-In(2)
199	1093.43	115.84	End Shut-In(2)
206	1885.21	112.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MUD 100%	0.58
1.00	C/O 100%	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62483

DST#: 3

Test Start: 2014.11.14 @ 16:08:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:45

Time Test Ended: 00:06:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 3983.00 ft (KB) To 4015.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 4015.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Outside

Press@RunDepth: psig @ 3986.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.14

End Date:

2014.11.15

Last Calib.:

2014.11.15

Start Time: 16:08:05

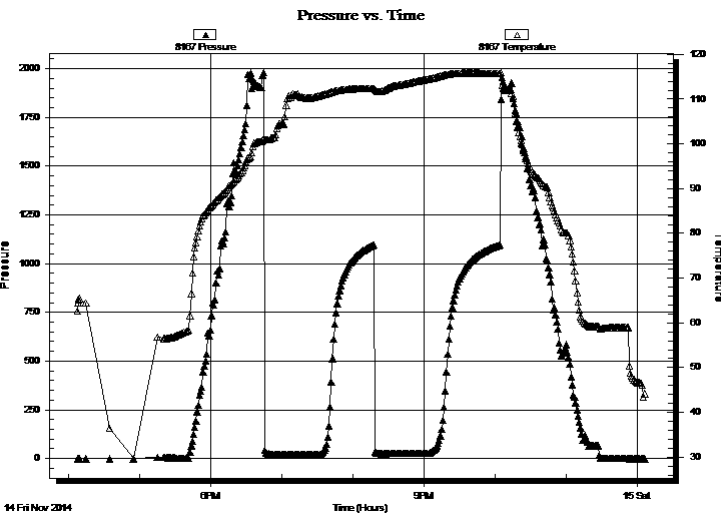
End Time:

00:05:44

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 45 - Weak blow built to 2"
I.S.I. - 45 - Weak surface blow back at 20 min
F.F. - 45 - Weak blow built to 1"
F.S.I. - 45 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MUD 100%	0.58
1.00	C/O 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62483

DST#: 3

ATTN: Mark Downing

Test Start: 2014.11.14 @ 16:08:00

Tool Information

Drill Pipe:	Length: 3948.00 ft	Diameter: 3.80 inches	Volume: 55.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3983.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3964.00	
Shut In Tool	5.00			3969.00	
Hydraulic tool	5.00			3974.00	
Packer	5.00			3979.00	20.00 Bottom Of Top Packer
Packer	4.00			3983.00	
Stubb	1.00			3984.00	
Perforations	2.00			3986.00	
Recorder	0.00	6772	Inside	3986.00	
Recorder	0.00	8167	Outside	3986.00	
Perforations	26.00			4012.00	
Bullnose	3.00			4015.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62483

DST#: 3

ATTN: Mark Downing

Test Start: 2014.11.14 @ 16:08:00

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:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	MUD 100%	0.578
1.00	C/O 100%	0.014

Total Length: 63.00 ft Total Volume: 0.592 bbl

Num Fluid Samples: 0

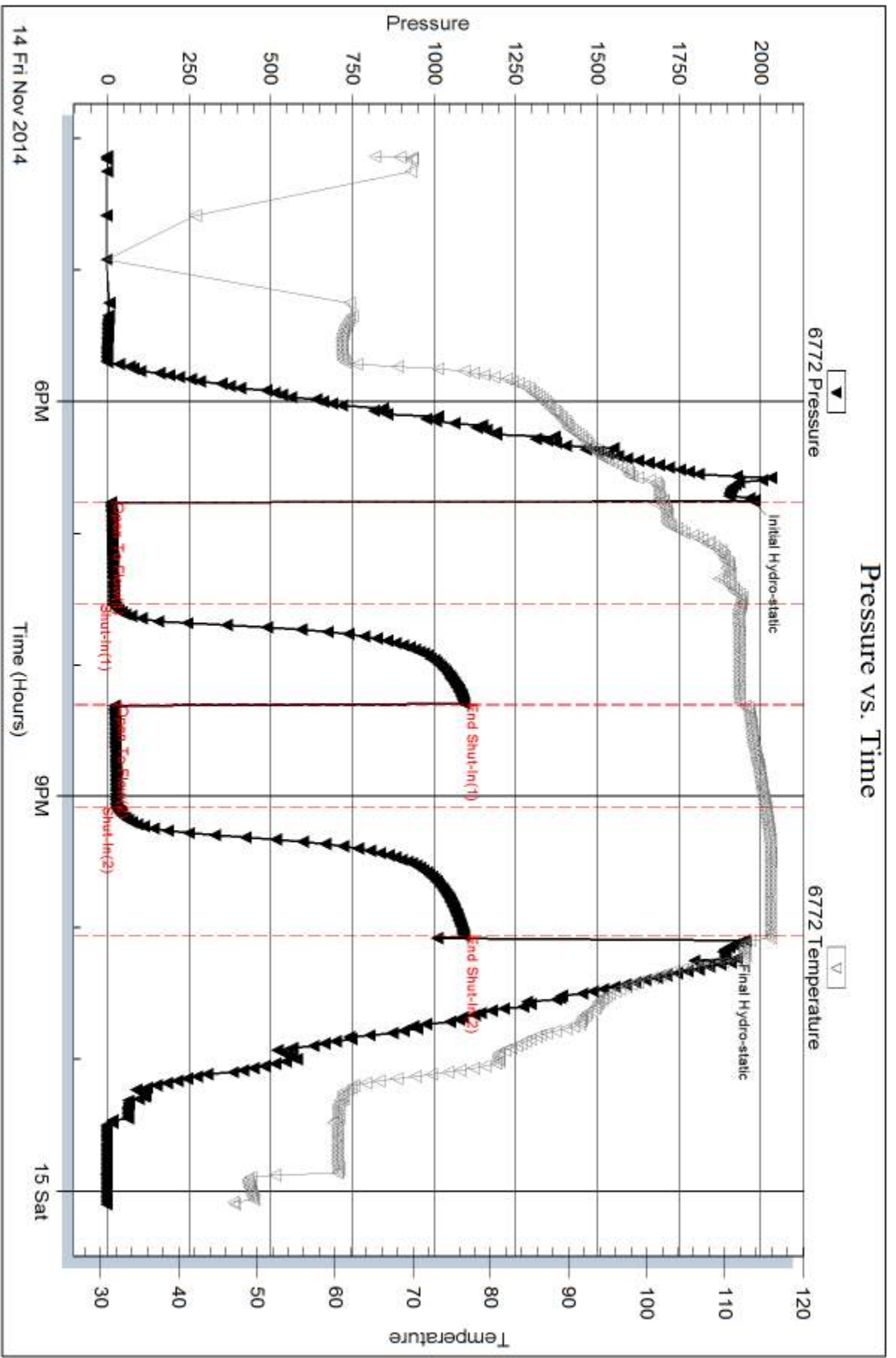
Num Gas Bombs: 0

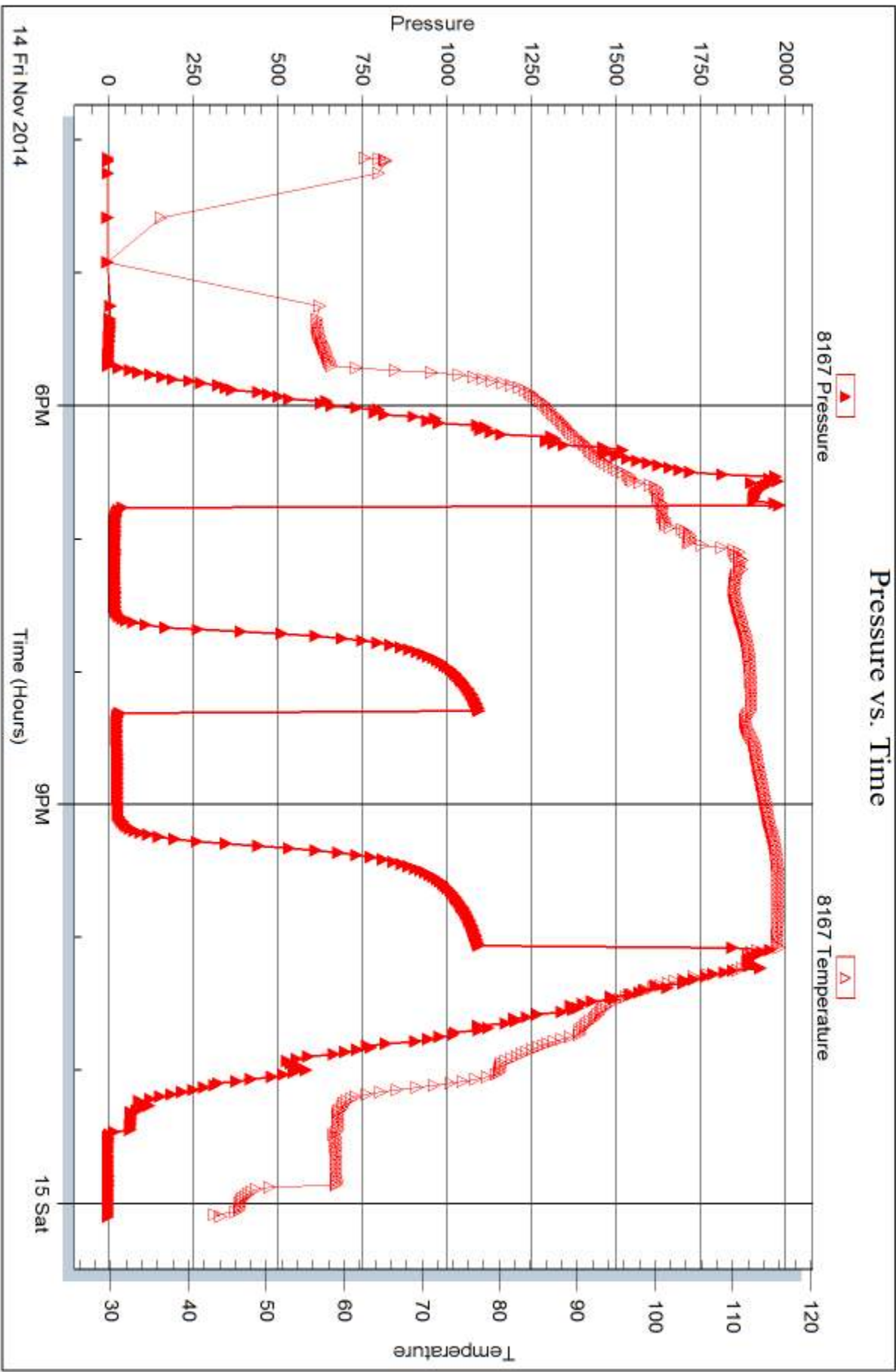
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

36-11s-22w Trego,KS

North Fork Farms #36-1

Start Date: 2014.11.15 @ 08:13:00

End Date: 2014.11.15 @ 14:49:45

Job Ticket #: 62484 DST #: 4

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

Printed: 2014.11.17 @ 16:45:20

H&C Oil Operating

North Fork Farms #36-1

36-11s-22w Trego,KS

DST # 4

Arbuckle

2014.11.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62484

DST#: 4

Test Start: 2014.11.15 @ 08:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:42:30

Time Test Ended: 14:49:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 4007.00 ft (KB) To 4065.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 4065.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press@RunDepth: 36.83 psig @ 4044.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.15 End Date: 2014.11.15

Last Calib.: 2014.11.15

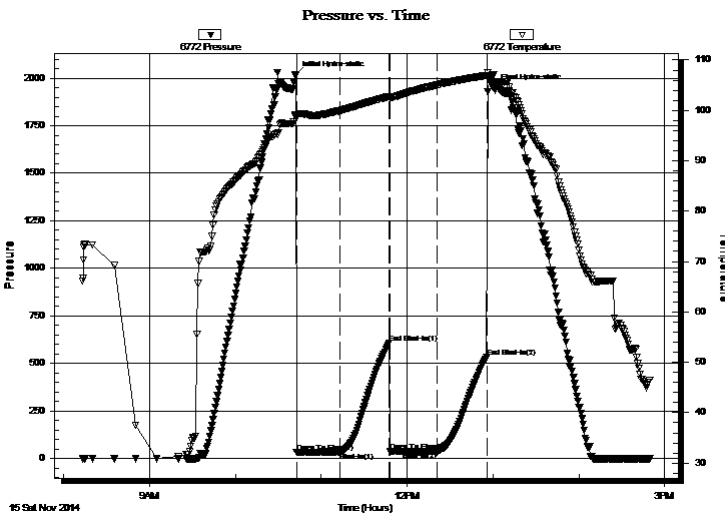
Start Time: 08:13:05 End Time: 14:49:44

Time On Btm: 2014.11.15 @ 10:41:45

Time Off Btm: 2014.11.15 @ 13:00:30

TEST COMMENT: I.F. - 30 - Weak blow built to 1"
I.S.I. - 30 - No blow back
F.F. - 30 - Weak blow built to 3/4"
F.S.I. - 30 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.86	99.11	Initial Hydro-static
1	33.23	98.65	Open To Flow (1)
32	34.40	99.93	Shut-In(1)
66	606.05	102.76	End Shut-In(1)
67	37.15	102.54	Open To Flow (2)
99	36.83	105.04	Shut-In(2)
134	532.68	106.93	End Shut-In(2)
139	1943.96	107.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	H ₂ O,C,M, 20% O 80% M	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

North Fork Farms #36-1

36-11s-22w Trego, KS

Job Ticket: 62484

DST#: 4

Test Start: 2014.11.15 @ 08:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:42:30

Time Test Ended: 14:49:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 4007.00 ft (KB) To 4065.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 4065.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Outside

Press@RunDepth: psig @ 4044.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.15 End Date: 2014.11.15

Last Calib.: 2014.11.15

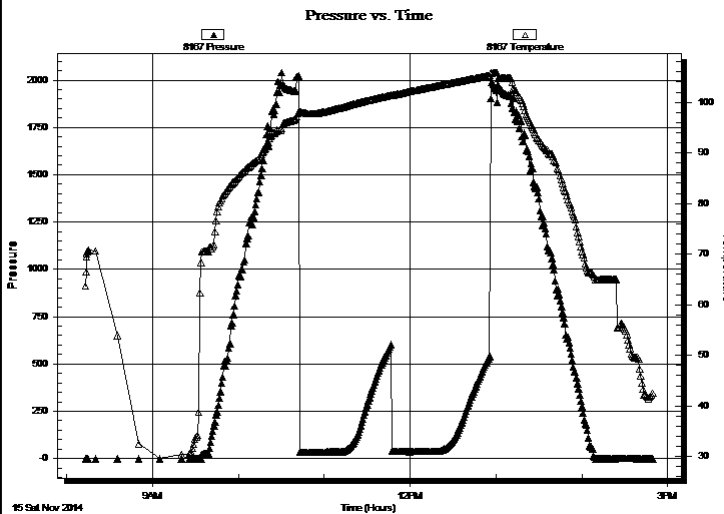
Start Time: 08:13:05 End Time: 14:49:29

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 30 - Weak blow built to 1"
I.S.I. - 30 - No blow back
F.F. - 30 - Weak blow built to 3/4"
F.S.I. - 30 - No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
4.00	H ₂ O, C, M, 20% O 80% M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62484

DST#: 4

ATTN: Mark Downing

Test Start: 2014.11.15 @ 08:13:00

Tool Information

Drill Pipe:	Length: 3972.00 ft	Diameter: 3.80 inches	Volume: 55.72 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 55.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4007.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3988.00	
Shut In Tool	5.00			3993.00	
Hydraulic tool	5.00			3998.00	
Packer	5.00			4003.00	20.00 Bottom Of Top Packer
Packer	4.00			4007.00	
Stubb	1.00			4008.00	
Perforations	2.00			4010.00	
Change Over Sub	1.00			4011.00	
Drill Pipe	32.00			4043.00	
Change Over Sub	1.00			4044.00	
Recorder	0.00	6772	Inside	4044.00	
Recorder	0.00	8167	Outside	4044.00	
Perforations	18.00			4062.00	
Bullnose	3.00			4065.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62484

DST#: 4

ATTN: Mark Downing

Test Start: 2014.11.15 @ 08:13:00

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: 8.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	H ₂ O,C,M, 20% O 80% M	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbl

Num Fluid Samples: 0

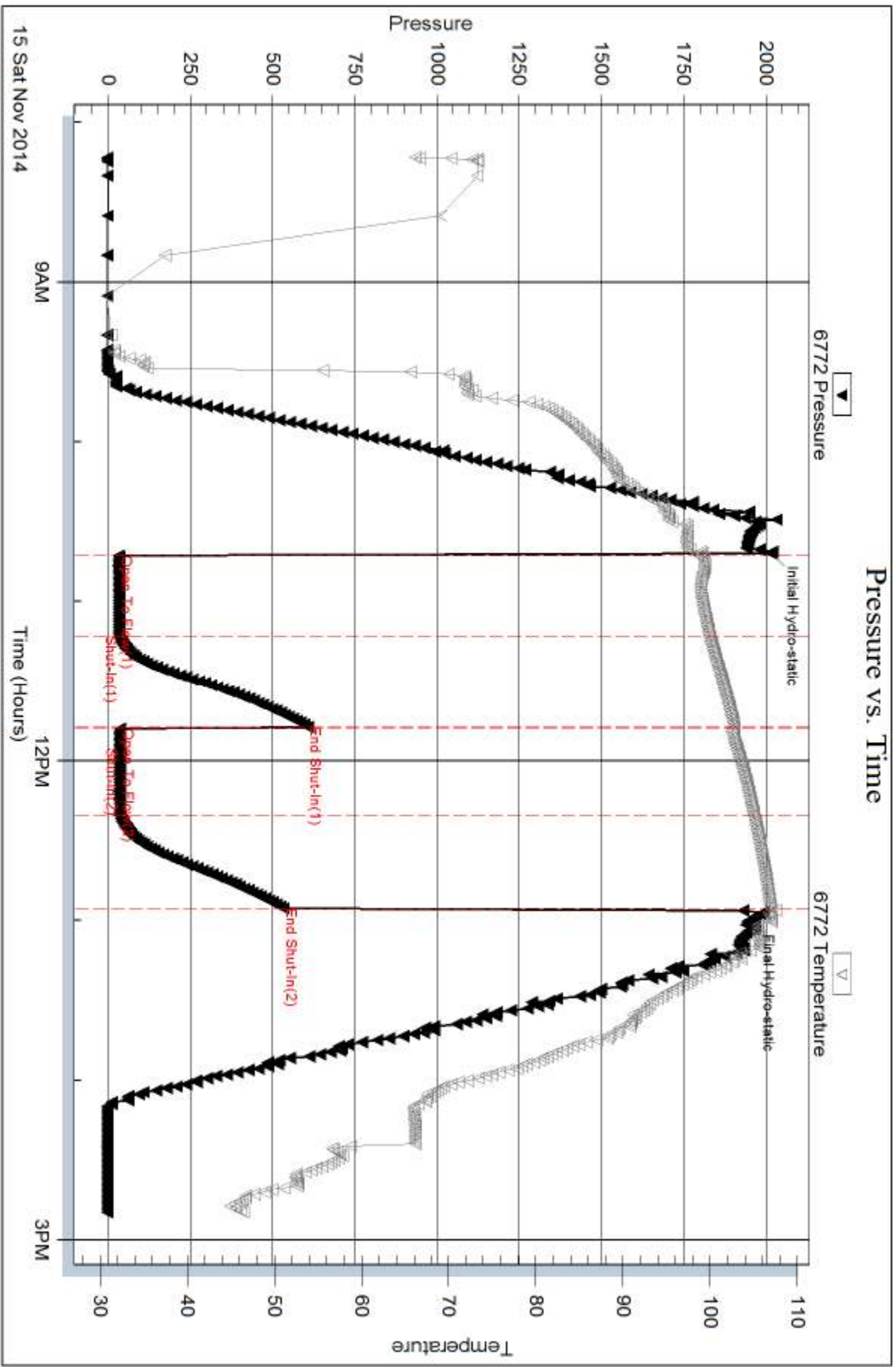
Num Gas Bombs: 0

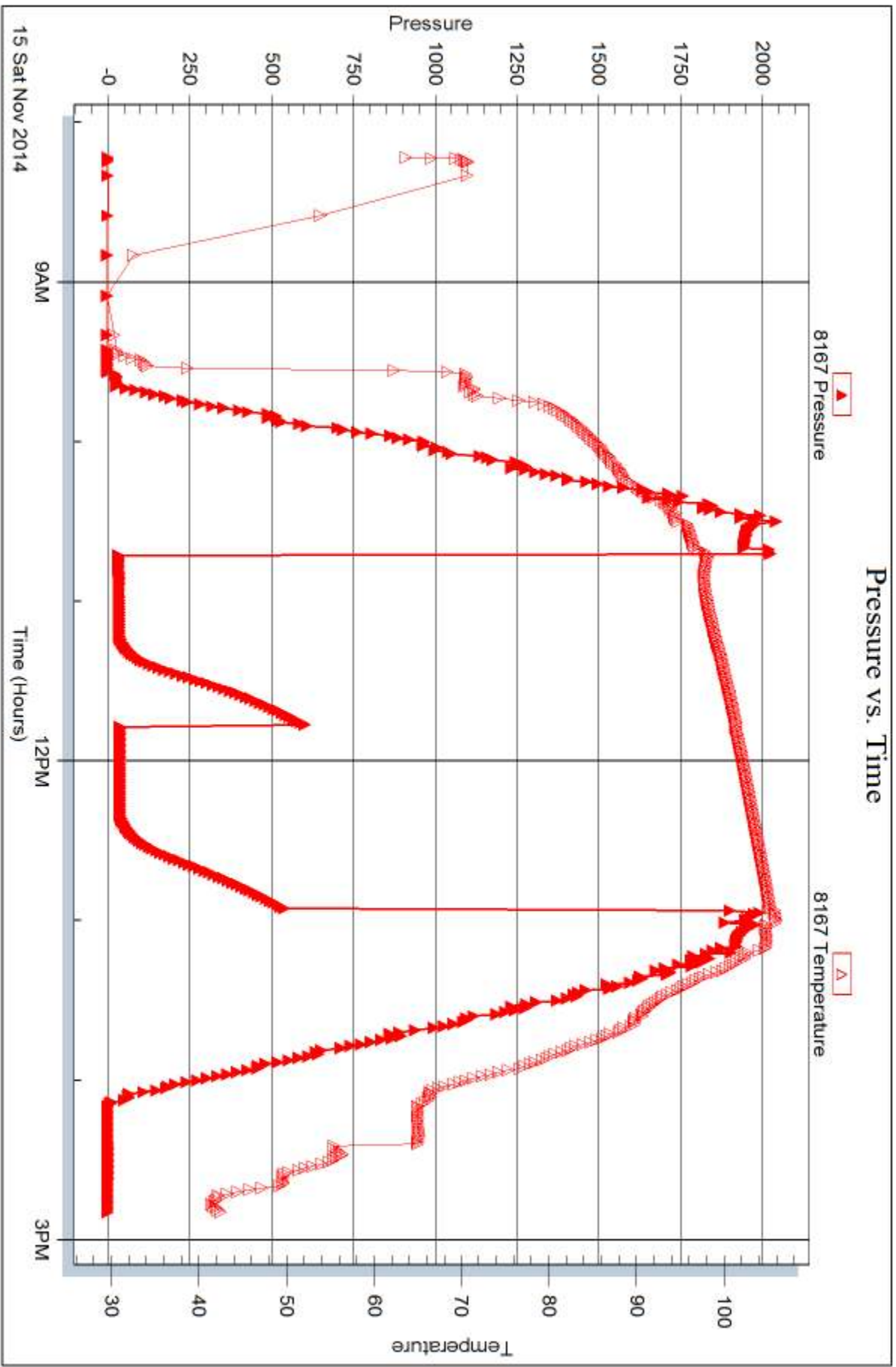
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Mark Downing

36-11s-22w Trego,KS

North Fork Farms #36-1

Start Date: 2014.11.16 @ 09:14:00

End Date: 2014.11.16 @ 15:47:00

Job Ticket #: 62485 DST #: 5

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

Printed: 2014.11.17 @ 16:44:47

H&C Oil Operating

North Fork Farms #36-1

36-11s-22w Trego,KS

DST # 5

Arbuckle

2014.11.16



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

ATTN: Mark Downing

Job Ticket: 62485

DST#: 5

Test Start: 2014.11.16 @ 09:14:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:06:15

Time Test Ended: 15:47:00

Test Type: Conventional Straddle (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 4064.00 ft (KB) To 4096.00 ft (KB) (TVD)

Reference Elevations: 2371.00 ft (KB)

Total Depth: 4154.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Outside

Press@RunDepth: 298.31 psig @ 4065.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.16

End Date:

2014.11.16

Last Calib.: 2014.11.16

Start Time: 09:14:05

End Time:

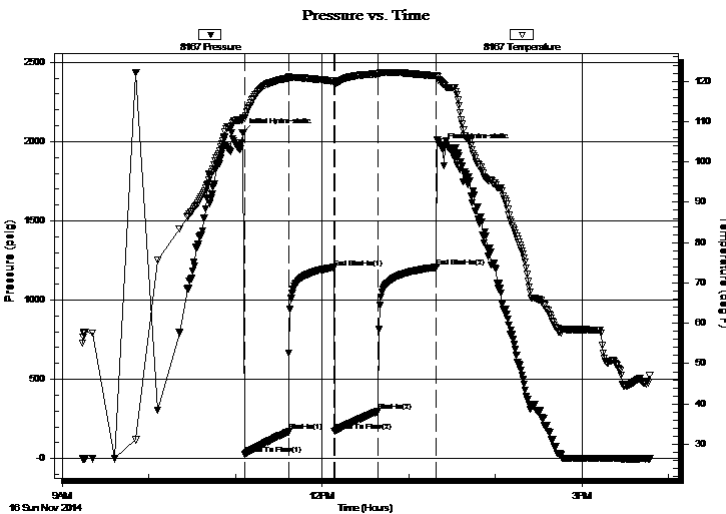
15:46:59

Time On Btm: 2014.11.16 @ 11:05:15

Time Off Btm: 2014.11.16 @ 13:22:15

TEST COMMENT: I.F. - 30 - BOB in 8 min
I.S.I. - 30 - No blow back
F.F. - 30 - BOB in 8 1/2 min
F.S.I. - 30 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.40	110.89	Initial Hydro-static
1	24.79	110.77	Open To Flow (1)
32	169.45	120.78	Shut-In(1)
63	1205.59	120.00	End Shut-In(1)
64	174.07	119.67	Open To Flow (2)
94	298.31	121.82	Shut-In(2)
134	1206.87	121.31	End Shut-In(2)
137	1964.41	119.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
756.00	M,C,W, 10%M 90%W	10.31
3.00	S,O,C,M,W, 10%O 40%M 50%W	0.04

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville,KS 67663

36-11s-22w Trego,KS

ATTN: Mark Downing

Job Ticket: 62485

DST#: 5

Test Start: 2014.11.16 @ 09:14:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:06:15

Time Test Ended: 15:47:00

Test Type: Conventional Straddle (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: **4064.00 ft (KB) To 4096.00 ft (KB) (TVD)**

Reference Elevations: 2371.00 ft (KB)

Total Depth: 4154.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772

Inside

Press@RunDepth: psig @ 4065.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.16

End Date:

2014.11.16

Last Calib.:

2014.11.16

Start Time: 09:14:05

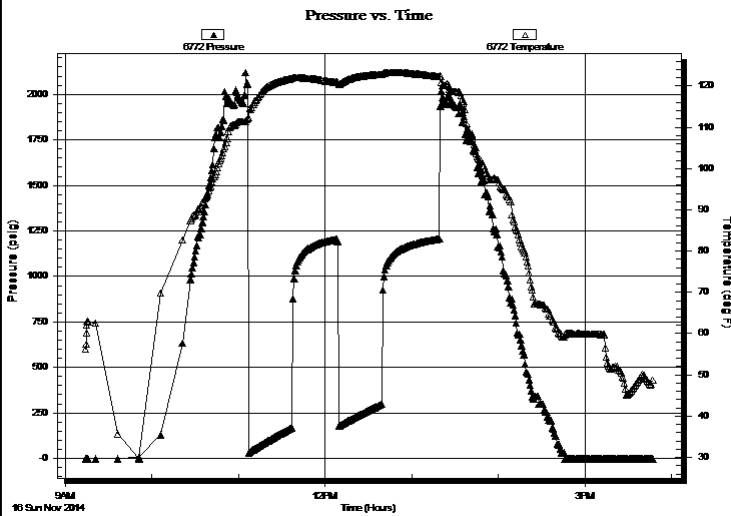
End Time:

15:47:14

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 30 - BOB in 8 min
I.S.I. - 30 - No blow back
F.F. - 30 - BOB in 8 1/2 min
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
756.00	M,C,W, 10%M 90%W	10.31
3.00	S,O,C,M,W, 10%O 40%M 50%W	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62485

DST#: 5

ATTN: Mark Downing

Test Start: 2014.11.16 @ 09:14:00

Tool Information

Drill Pipe:	Length: 4027.00 ft	Diameter: 3.80 inches	Volume: 56.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4064.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	4096.00 ft			
Interval between Packers:	32.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4045.00	
Shut In Tool	5.00			4050.00	
Hydraulic tool	5.00			4055.00	
Packer	5.00			4060.00	20.00 Bottom Of Top Packer
Packer	4.00			4064.00	
Stubb	1.00			4065.00	
Recorder	0.00	6772	Inside	4065.00	
Recorder	0.00	8167	Outside	4065.00	
Perforations	11.00			4076.00	
Perforations	15.00			4091.00	
Blank Off Sub	1.00			4092.00	
Top of straddle packer	4.00			4096.00	32.00 Tool Interval
Packer	0.00			4096.00	
Stubb	1.00			4097.00	
Perforations	19.00			4116.00	
Change Over Sub	1.00			4117.00	
Recorder	0.00	8845	Below	4117.00	
Drill Pipe	32.00			4149.00	
Change Over Sub	1.00			4150.00	
Bullnose	3.00			4153.00	57.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

North Fork Farms #36-1

PO Box 86
Plainville, KS 67663

36-11s-22w Trego, KS

Job Ticket: 62485

DST#: 5

ATTN: Mark Downing

Test Start: 2014.11.16 @ 09:14:00

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:

39000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
756.00	M,C,W, 10%M 90%W	10.313
3.00	S,O,C,M,W, 10%O 40%M 50%W	0.042

Total Length: 759.00 ft Total Volume: 10.355 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

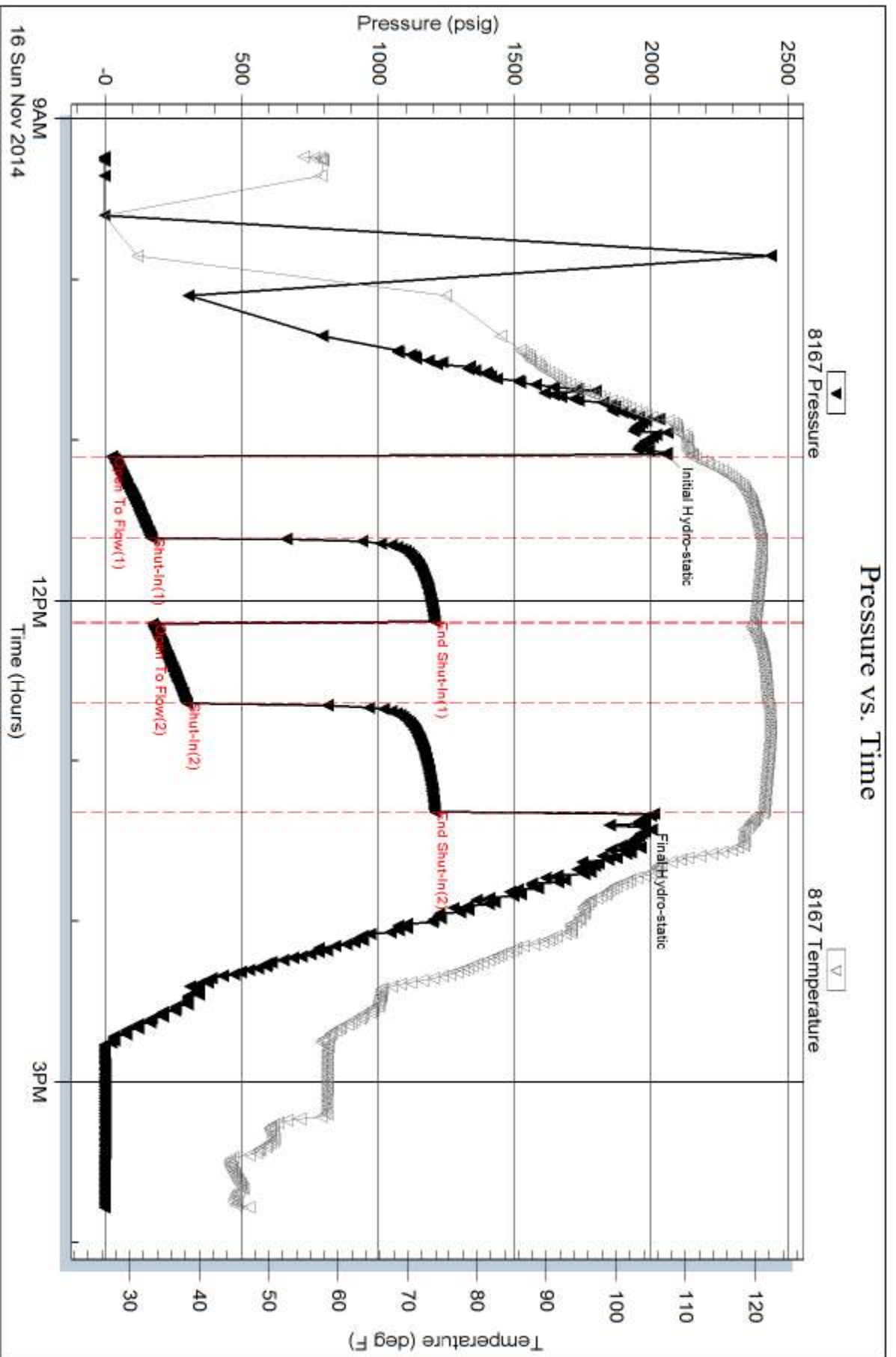
Recovery Comments: R.W. = .31 @ 45.4 DEG

Serial #: 8167

Outside H&C Oil Operating

36-11s-22w Trego,KS

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 62485

Printed: 2014.11.17 @ 16:44:48

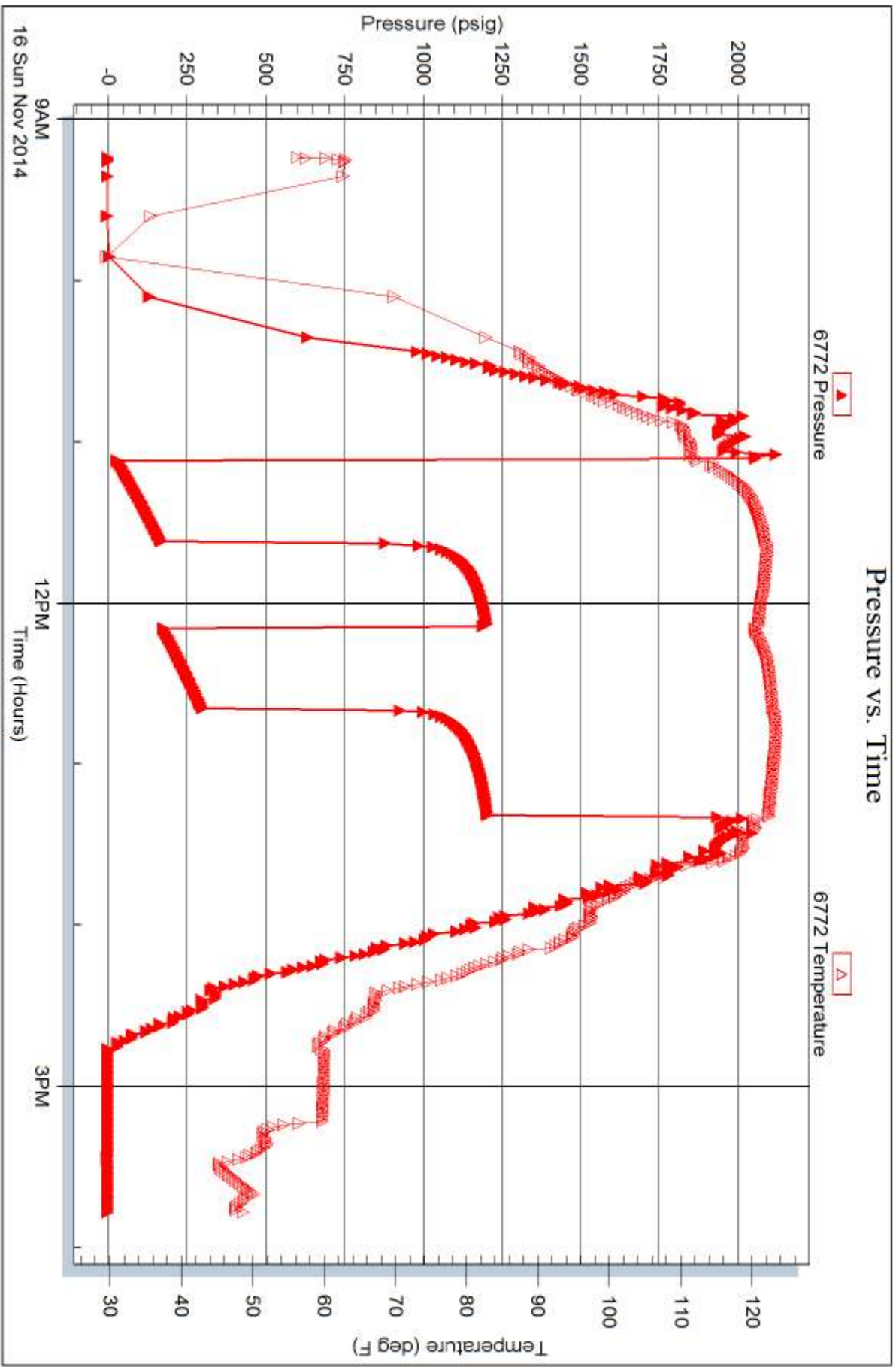
Serial #: 6772

Inside

H&C Oil Operating

36-11s-22w Trego,KS

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 62485

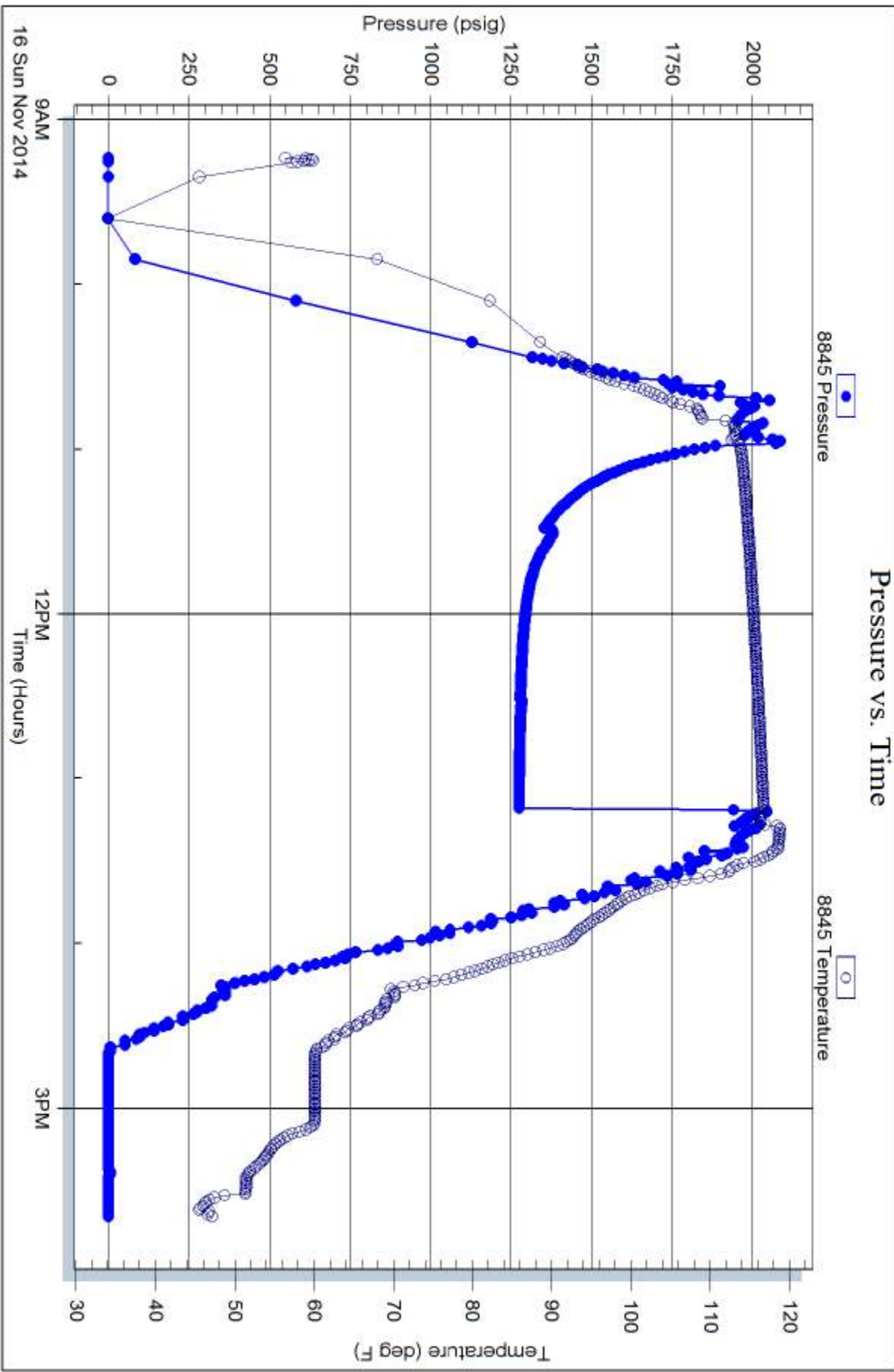
Printed: 2014.11.17 @ 16:44:49

Serial #: 8845

Below (Str 8845) Operating

36-11s-22w Trego, KS

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 62485

Printed: 2014.11.17 @ 16:44:49



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62481

Well Name & No. North Fork Farms #36-1 Test No. 1 Date 11-12 / 11-13
 Company H+C oil operating inc. Elevation 2371 KB 2364 GL
 Address P.O. Box 86 Plainville KS. 67663
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig DiSCO #1
 Location: Sec. 36 Twp. 11 S. Rge. 22 W. Co. Trego State KS.

Interval Tested 3730 - 46 Zone Tested L.K.C. "E"
 Anchor Length 16' Drill Pipe Run 3695 Mud Wt. 9.0
 Top Packer Depth 3725 Drill Collars Run 32' Vis 56
 Bottom Packer Depth 3730 Wt. Pipe Run — WL 8.4
 Total Depth 3746 Chlorides 500 ppm System LCM 1#

Blow Description I.F.-30-1/8" INT. Blow Built to 1"
~~IS.I-30-NO B.B.~~
~~EF.F-30-1/8" INT. Built to 1/4"~~
F.S.I-30-NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>2'</u>	Feet of <u>S, O, S, M (few oil specs)</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of <u>(Show of oil in test tools)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2' BHT 103.9 Gravity 1150 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 1,808 Test 1150 T-On Location 16:52:00
 (B) First Initial Flow 11 Jars — T-Started 17:45:00
 (C) First Final Flow 13 Safety Joint — T-Open 23:13:00
 (D) Initial Shut-In 32 Circ Sub — T-Pulled 01:13:00
 (E) Second Initial Flow 14 Hourly Standby — T-Out 03:28:30
 (F) Second Final Flow 14 Mileage 68 / R.T. 105.40 Comments —
 (G) Final Shut-In 23 Sampler — "Thank-you"
 (H) Final Hydrostatic 1,757 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Initial Open 30 Extra Recorder — Sub Total 0
 Initial Shut-In 30 Day Standby — Total 1255.40
 Final Flow 30 Accessibility — MP/DST Disc't —
 Final Shut-In 30 Sub Total 1255.40

Approved By _____ Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62482

Well Name & No. North Fork Farms #36-1 Test No. 2 Date 11-13/11-14
 Company H+C oil operating inc. Elevation 2371 KB 2364 GL
 Address P.O. Box 86 Plainville KS. 67663
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig DISCO #1
 Location: Sec. 36 Twp. 11-S. Rge. 22 W. Co. rego State KS.

Interval Tested 3838-3879 Zone Tested h.k.c. "J+K"
 Anchor Length 41 Drill Pipe Run 3821 Mud Wt. 9.1
 Top Packer Depth 3833 Drill Collars Run 32 Vis 49
 Bottom Packer Depth 3838 Wt. Pipe Run — WL 8.8
 Total Depth 3879 Chlorides 500 ppm System LCM 2

Blow Description IF-45-1/4" INT. Blow Built to 2"
I.S.I-45-No B.B.
F.F-45-1/8" INT. Blow Built to 1/4"
F.S.I-45-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10'</u>	Feet of <u>Mud</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 106.7 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1,871 Test 1150 T-On Location 18:45:00
 (B) First Initial Flow 14 Jars T-Started 19:15:00
 (C) First Final Flow 21 Safety Joint T-Open 21:57:00
 (D) Initial Shut-In 1,046 Circ Sub T-Pulled 00:57:00
 (E) Second Initial Flow 23 Hourly Standby T-Out 02:28:15
 (F) Second Final Flow 28 Mileage 68 / Ret. 105.40 Comments "thank-you"
 (G) Final Shut-In 961 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1,808 Straddle Ruined Packer
 Initial Open 45 Shale Packer Extra Copies
 Initial Shut-In 45 Extra Packer Sub Total 0
 Final Flow 45 Extra Recorder Total 1255.40
 Final Shut-In 45 Day Standby MP/DST Disc't
 Sub Total 1255.40 Accessibility

Approved By _____ Our Representative Bob Hame
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62483

Well Name & No. North Fork Farms #36-1 Test No. 3 Date 11-14
 Company HOC oil operating inc. Elevation 2371 KB 2364 GL
 Address P.O. Box 86 Plainville KS. 67663
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig Disc #1
 Location: Sec. 36 Twp. 10-S. Rge. 22-W. Co. Trego State KS

Interval Tested 3983-4015 Zone Tested Macmorton
 Anchor Length 32' Drill Pipe Run 3948 Mud Wt. 9.2
 Top Packer Depth 3978 Drill Collars Run 32 Vis 56
 Bottom Packer Depth 3983 Wt. Pipe Run --- WL 8.8
 Total Depth 4015 Chlorides 1000 ppm System LCM 1 1/2

Blow Description I.F-45-1/4 INT. Blow Built to 2"
I.S.I-45-W.S.B. Started @ 20 min. No Build
F.F-45-1/8" INT. Blow Built to 1"
F.S.I-45-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1'</u>	Feet of <u>Cl</u>		<u>100</u>		
Rec <u>62'</u>	Feet of <u>Mud</u>			<u>100</u>	
Rec _____	Feet of _____				
Rec _____	Feet of _____				

Rec Total 63' BHT 112.5 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1928 Test 1250 T-On Location 15:45:00
 (B) First Initial Flow 11 Jars _____ T-Started 16:08:00
 (C) First Final Flow 21 Safety Joint _____ T-Open 18:47:00
 (D) Initial Shut-In 1095 Circ Sub _____ T-Pulled 21:50:00
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 40:06:00
 (F) Second Final Flow 28 Mileage 68. R.T. 105.40 Comments _____
 (G) Final Shut-In 4093 Sampler _____ "Thank-you"
 (H) Final Hydrostatic 1885 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1355.40
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 _____

Sub Total 1355.40

Approved By _____ Our Representative Bob Hamel

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62484

Well Name & No. North Fork Farms #36-1 Test No. 4 Date 11-15
 Company H+C oil operations inc. Elevation 2371 KB 2364 GL
 Address Po Box 86 Plainville KS. 67663
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig Disco #1
 Location: Sec. 36 Twp. 11-S Rge. 22-W Co. Trego State KS.

Interval Tested 4007-4065 Zone Tested Arbu Chle
 Anchor Length 58' Drill Pipe Run 3972 Mud Wt. 9.2
 Top Packer Depth 4002 Drill Collars Run 32 Vis 56
 Bottom Packer Depth 4007 Wt. Pipe Run — WL 8.8
 Total Depth 4065 Chlorides 1,000 ppm System LCM 1 1/2

Blow Description IF-30-1/8" INT. Blow Built to 1"
I.S.I-30-No B.B.
E.F-30-1/8" INT. Blow Built to 3/4"
E.S.I-30-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>4'</u>	Feet of <u>H,O,C,M</u>	%gas <u>20</u>	%oil <u>80</u>	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4' BHT 107.1 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2016 Test 1250 T-On Location 07:45:00
 (B) First Initial Flow 33 Jars T-Started 08:15:00
 (C) First Final Flow 34 Safety Joint T-Open 10:42:00
 (D) Initial Shut-In 606 Circ Sub T-Pulled 12:42:00
 (E) Second Initial Flow 37 Hourly Standby T-Out 14:49:45
 (F) Second Final Flow 37 Mileage 68 / R.T. 105.40 Comments "Thank-you"
 (G) Final Shut-In 533 Sampler
 (H) Final Hydrostatic 1944 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 80 Extra Recorder Sub Total 0
 Initial Shut-In 80 Extra Recorder Total 1355.40
 Final Flow 80 Day Standby
 Final Shut-In 80 Accessibility MP/DST Disc't
 Sub Total 1355.40

Approved By _____ Our Representative Bob Howard

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62485

Well Name & No. North Fork Farms #36-1 Test No. 5 Date 11-16
 Company H&C oil generating inc. Elevation 2371 KB 2364 GL
 Address P.O. Box 86 Plainsville KS. 67663
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig Disco #1
 Location: Sec. 36 Twp. 19-S Rge. 22-W Co. rego State KS.

Interval Tested 4096-4064 Zone Tested ArbuCKTe
 Anchor Length 32' Drill Pipe Run 4027 Mud Wt. 9.2
 Top Packer Depth 4064-4059 Drill Collars Run 32 Vis 56
 Bottom Packer Depth 4096 (Shale) Wt. Pipe Run — WL 8.8
 Total Depth 4154 Chlorides 1000 ppm System LCM 1 1/2

Blow Description I.F.-30-1/2" INT. Blow Built to B.O.B in 8 min.
I.S.I.-30-No B.B.
F.F.-30-1/2" INT. Blow Built to B.O.B in 8 1/2 min.
F.S.I.-30-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>3</u>	Feet of <u>S.O.C, M, W</u>	%gas <u>10</u>	%oil <u>50</u>	%water <u>40</u>	%mud
Rec <u>756</u>	Feet of <u>MC, W</u>	%gas	%oil <u>90</u>	%water <u>10</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 759 BHT 119.7 Gravity — API RW. 31 @ 95.4 °F Chlorides 39000 ppm

(A) Initial Hydrostatic 2055 Test 1250 T-On Location 07:45:00
 (B) First Initial Flow 25 Jars T-Started 09:14:00
 (C) First Final Flow 169 Safety Joint T-Open 11:04:00
 (D) Initial Shut-In 4206 Circ Sub T-Pulled 13:04:00
 (E) Second Initial Flow 174 Hourly Standby T-Out 15:47:00
 (F) Second Final Flow 298 Mileage 68/R.T. 105.40 Comments Straddle
 (G) Final Shut-In 1207 Sampler 600 'thank you'
 (H) Final Hydrostatic 1964 Straddle 600 Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1955.40
 Accessibility MP/DST Disc't
 Sub Total 1955.40

Approved By _____ Our Representative [Signature]

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