

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

10-34s-11w Barber,KS

Medicine River Ranch D-3

Start Date: 2011.11.22 @ 06:04:57
End Date: 2011.11.22 @ 14:05:57
Job Ticket #: 44107 DST #: 1

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

Printed: 2011.12.01 @ 13:56:41

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44107 **DST#: 1**

Test Start: 2011.11.22 @ 06:04:57

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:08:42
Time Test Ended: 14:05:57

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Staats
Unit No: 34

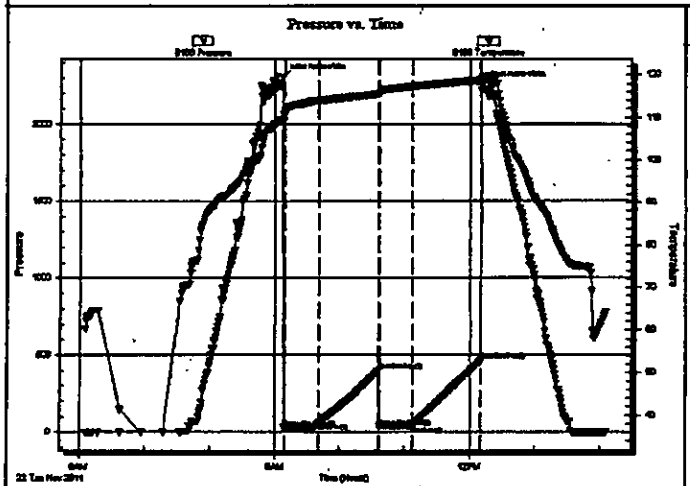
Interval: **4560.00 ft (KB) To 4625.00 ft (KB) (TVD)**
Total Depth: 4625.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1380.00 ft (KB)
1370.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 40.37 psig @ 4561.00 ft (KB)
Start Date: 2011.11.22 End Date: 2011.11.22
Start Time: 06:05:02 End Time: 14:05:56

Capacity: 8000.00 psig
Last Calib.: 2011.11.22
Time On Btm: 2011.11.22 @ 09:06:57
Time Off Btm: 2011.11.22 @ 12:12:12

TEST COMMENT: IF: Strong blow BOB 4 min
ISI: Weak blow back 3 1/2"
FF: Strong blow BOB 30 sec
FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.85	109.36	Initial Hydro-static
2	24.42	110.62	Open To Flow (1)
34	56.57	113.91	Shut-In(1)
90	399.06	115.53	End Shut-In(1)
91	34.75	115.53	Open To Flow (2)
121	40.37	117.24	Shut-In(2)
184	460.67	118.71	End Shut-In(2)
186	2254.66	119.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	900' GIP	0.00
60.00	Gassy Mud 2% gas 98% mud	0.30

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44107 **DST#: 1**

Test Start: 2011.11.22 @ 06:04:57

Tool Information

Drill Pipe:	Length:	4426.00 ft	Diameter:	3.80 inches	Volume:	62.09 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 inches	Volume:	0.58 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	62.67 bbl	Tool Chased		4.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		4560.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		65.00 ft							
Tool Length:		86.00 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			4540.00		
Shut In Tool	5.00			4545.00		
Hydraulic tool	5.00			4550.00		
Packer	5.00			4555.00	21.00	Bottom Of Top Packer
Packer	5.00			4560.00		
Stubb	1.00			4561.00		
Recorder	0.00	6773	Outside	4561.00		
Recorder	0.00	8166	Outside	4561.00		
Perforations	5.00			4566.00		
Change Over Sub	0.50			4566.50		
Drill Pipe	30.00			4596.50		
Change Over Sub	0.50			4597.00		
Perforations	25.00			4622.00		
Bullnose	3.00			4625.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**86.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44107 **DST#: 1**

Test Start: 2011.11.22 @ 06:04:57

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	0.00 ohmm	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	900' GIP	0.000
60.00	Gassy Mud 2% gas 98% mud	0.295

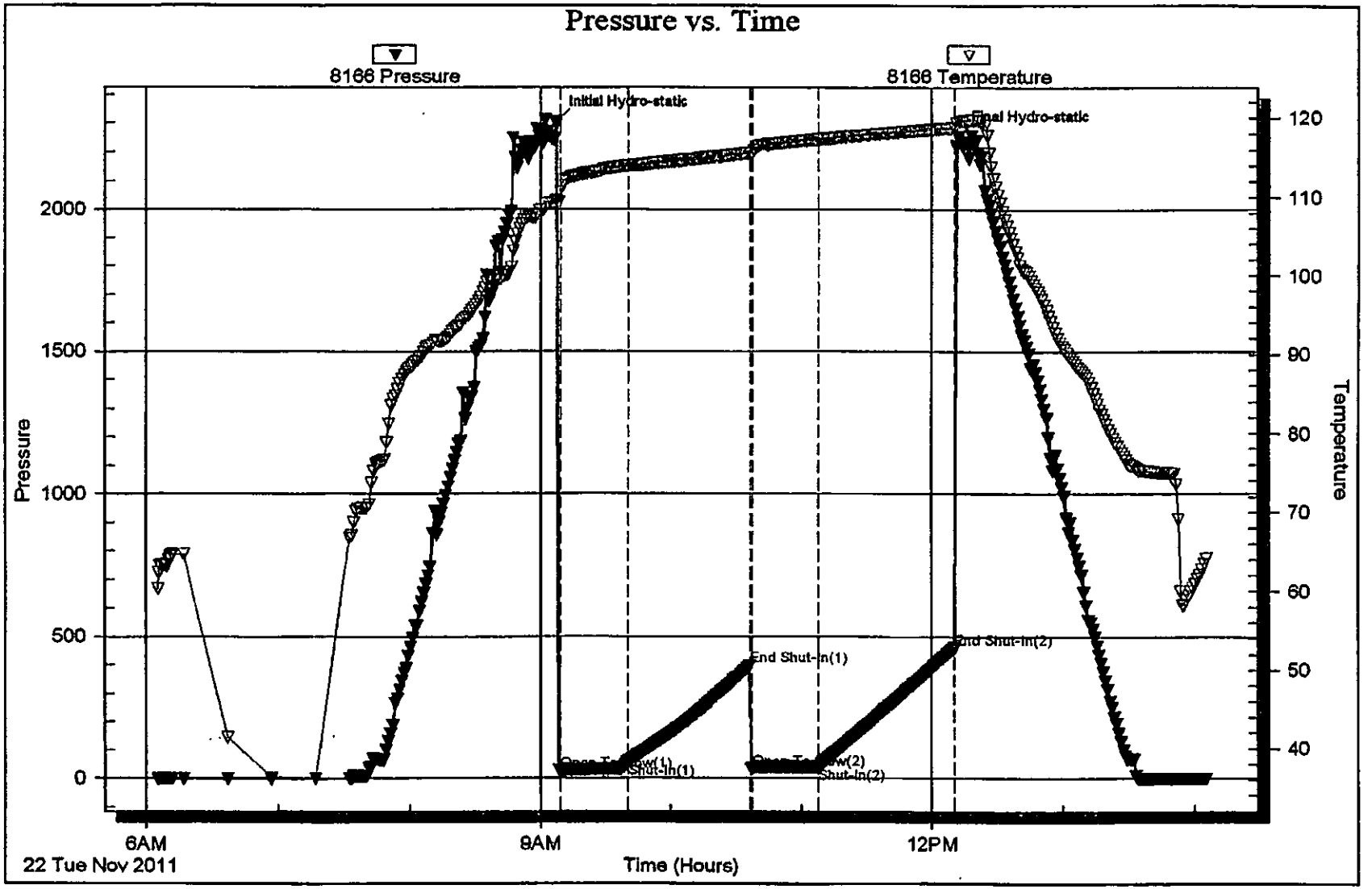
Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8166 Outside N-10 Exploration LLC 10-34s-11w Barber,KS DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44107 Printed: 2011.12.01 @ 13:56:43

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

10-34s-11w Barber,KS

Medicine River Ranch D-3

Start Date: 2011.11.23 @ 07:46:42
End Date: 2011.11.23 @ 14:29:27
Job Ticket #: 44108 DST #: 2

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

Printed: 2011.12.01 @ 13:57:01

DRILL STEM TEST REPORT

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44108 **DST#: 2**

Test Start: 2011.11.23 @ 07:46:42

GENERAL INFORMATION:

Formation: **Misener**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:06:27
Time Test Ended: 14:29:27

Test Type: Conventional Bottom Hole (Reset)
Tester: Chris Staats
Unit No: 34

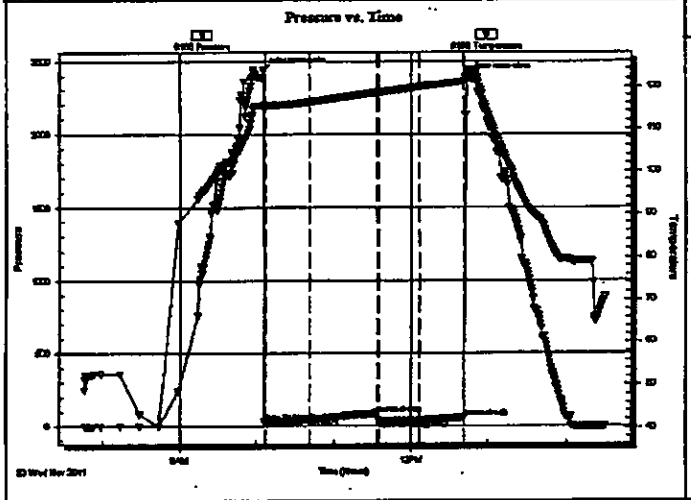
Interval: 4873.00 ft (KB) To 4900.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 Inches Hole Condition: Fair

Reference Elevations: 1380.00 ft (KB)
1370.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 Outside
Press@RunDepth: 37.99 psig @ 4874.00 ft (KB)
Start Date: 2011.11.23 End Date: 2011.11.23
Start Time: 07:46:47 End Time: 14:29:26

Capacity: 8000.00 psig
Last Calib.: 2011.11.23
Time On Btm: 2011.11.23 @ 10:05:12
Time Off Btm: 2011.11.23 @ 12:44:27

TEST COMMENT: IF: Weak blow 1 1/2" Blow died
ISI No blow back
FF:No blow
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2436.11	115.50	Initial Hydro-static
2	34.00	115.48	Open To Flow (1)
36	43.62	116.23	Shut-In(1)
89	87.92	118.48	End Shut-In(1)
90	34.03	118.52	Open To Flow (2)
121	37.99	119.81	Shut-In(2)
156	58.37	121.14	End Shut-In(2)
160	2389.32	123.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44108 DST#: 2

Test Start: 2011.11.23 @ 07:46:42

Tool Information

Drill Pipe:	Length:	4761.00 ft	Diameter:	3.80 inches	Volume:	66.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 inches	Volume:	0.58 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	67.36 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	74000.00 lb
Depth to Top Packer:		4873.00 ft					Final	74000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		27.00 ft						
Tool Length:		48.00 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			4853.00		
Shut In Tool	5.00			4858.00		
Hydraulic tool	5.00			4863.00		
Packer	5.00			4868.00	21.00	Bottom Of Top Packer
Packer	5.00			4873.00		
Stubb	1.00			4874.00		
Recorder	0.00	6773	Outside	4874.00		
Recorder	0.00	8166	Outside	4874.00		
Perforations	23.00			4897.00		
Bullnose	3.00			4900.00	27.00	Bottom Packers & Anchor
Total Tool Length:	**48.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44108 **DST#: 2**

Test Start: 2011.11.23 @ 07:46:42

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohmm	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud	0.148

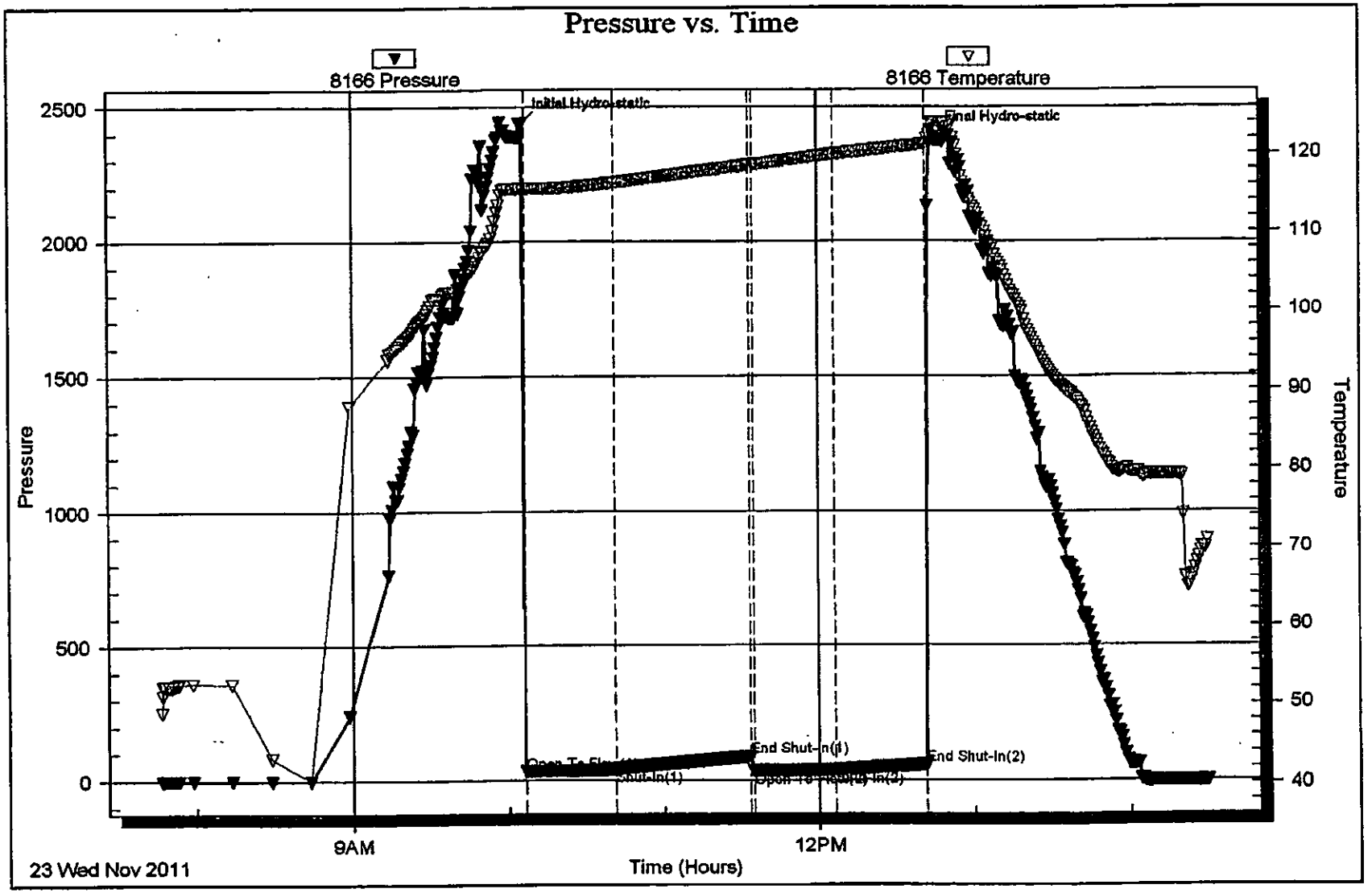
Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8166 Outside N-10 Exploration LLC 10-34s-11w Barber,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 44108 Printed: 2011.12.01 @ 13:57:02

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

10-34s-11w Barber,KS

Medicine River Ranch D-3

Start Date: 2011.11.24 @ 01:21:37
End Date: 2011.11.24 @ 11:19:37
Job Ticket #: 44109 DST #: 3

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

Printed: 2011.12.01 @ 13:57:16

DRILL STEM TEST REPORT

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44109 **DST#: 3**

Test Start: 2011.11.24 @ 01:21:37

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:14:22
Time Test Ended: 11:19:37

Test Type: Conventional Bottom Hole (Reset)
Tester: Chris Staats
Unit No: 34

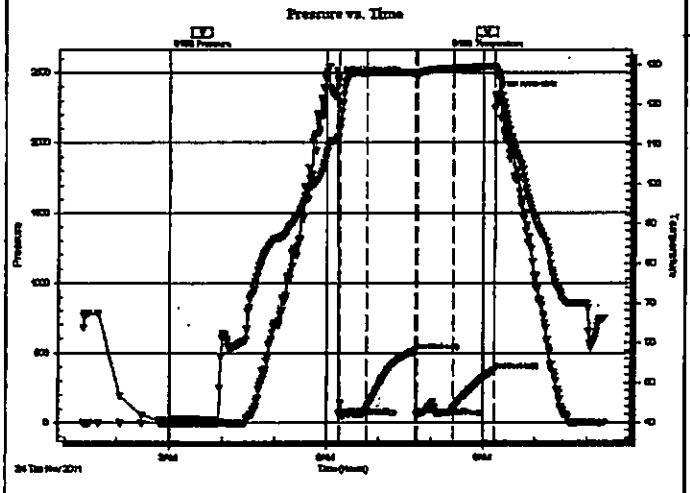
Interval: **4914.00 ft (KB) To 4934.00 ft (KB) (TVD)**
Total Depth: 4934.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1380.00 ft (KB)
1370.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 98.63 psig @ 4915.00 ft (KB)
Start Date: 2011.11.24 End Date: 2011.11.24
Start Time: 01:21:42 End Time: 11:19:37

Capacity: 8000.00 psig
Last Calib.: 2011.11.24
Time On Btm: 2011.11.24 @ 06:13:07
Time Off Btm: 2011.11.24 @ 09:14:22

TEST COMMENT: IF: Strong blow BOB 8 min
ISI: Weak surface blow back
FF: Strong blow BOB 23 min
FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2446.48	111.71	Initial Hydro-static
2	58.70	113.76	Open To Flow (1)
34	104.19	128.07	Shut-In(1)
90	512.91	128.01	End Shut-In(1)
92	58.45	126.85	Open To Flow (2)
133	98.63	129.12	Shut-In(2)
180	372.96	129.56	End Shut-In(2)
182	2342.38	129.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	310' GIP	0.00
90.00	W,M 10% water 90% mud	0.44
60.00	Slight oil cut M,W 1%oil 9%mud 90% wat	0.59

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44109 **DST#: 3**

Test Start: 2011.11.24 @ 01:21:37.

Tool Information

Drill Pipe:	Length:	4793.00 ft	Diameter:	3.80 inches	Volume:	67.23 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 inches	Volume:	0.58 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	67.81 bbl	Tool Chased	2.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	74000.00 lb
Depth to Top Packer:		4914.00 ft					Final	74000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		20.00 ft						
Tool Length:		41.00 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			4894.00		
Shut In Tool	5.00			4899.00		
Hydraulic tool	5.00			4904.00		
Packer	5.00			4909.00	21.00	Bottom Of Top Packer
Packer	5.00			4914.00		
Stubb	1.00			4915.00		
Recorder	0.00	6773	Outside	4915.00		
Recorder	0.00	8166	Outside	4915.00		
Perforations	16.00			4931.00		
Bullnose	3.00			4934.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**41.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Exploration LLC

PO Box 195
Attica KS 67009

ATTN: Randy Newberry/Tim P

Medicine River Ranch D-3

10-34s-11w Barber,KS

Job Ticket: 44109 **DST#: 3**

Test Start: 2011.11.24 @ 01:21:37

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:	39.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	310' GIP	0.000
90.00	W,M 10% water 90% mud	0.443
60.00	Slight oil cut M,W 1%oil 9%mud 90% water	0.587

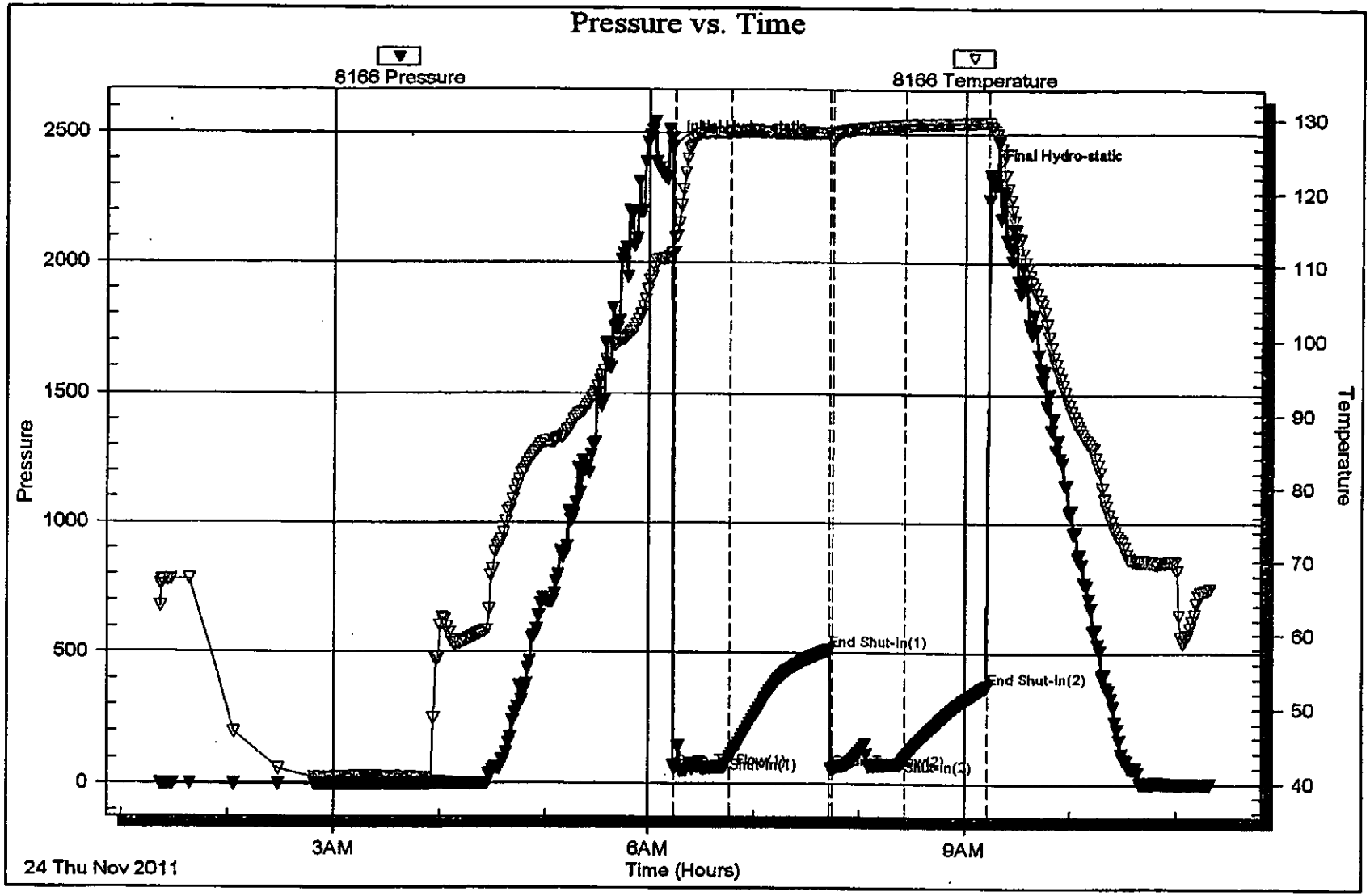
Total Length: 150.00 ft Total Volume: 1.030 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8166 Outside N-10 Exploration LLC 10-34s-11w Barber,KS DST Test Number: 3



Trilobite Testing, Inc Ref. No: 44109 Printed: 2011.12.01 @ 13:57:18