

DRILL STEM TEST REPORT

Prepared For: **Wood Energy Inc**
PO Box 828
Mount Vernon IL 62864

ATTN: Tom Pronold

Miller #9-1

9-19s-33w Scott,KS

Start Date: 2012.05.29 @ 03:40:00
End Date: 2012.05.29 @ 12:34:30
Job Ticket #: 46077 DST #: 1

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

Printed: 2012.05.31 @ 15:56:37

Wood Energy Inc 9-19s-33w Scott,KS Miller #9-1 DST # 1 Morrow Sand 2012.05.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Wood Energy Inc
PO Box 828
Mount Vernon IL 62864
ATTN: Tom Pronold

9-19s-33w Scott, KS
Miller #9-1
Job Ticket: 46077 DST#: 1
Test Start: 2012.05.29 @ 03:40:00

Tool Information

Drill Pipe:	Length: 4605.00 ft	Diameter: 3.80 inches	Volume: 64.60 bbl	Tool Weight: 2600.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 69000.00 lb
			Total Volume: 64.60 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			
Depth to Top Packer:	4610.00 ft			
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4585.00	
Sampler	2.00			4587.00	
Hydraulic tool	5.00			4592.00	
Jars	5.00			4597.00	
Safety Joint	3.00			4600.00	
Packer	5.00			4605.00	30.00 Bottom Of Top Packer
Packer	5.00			4610.00	
Stubb	1.00			4611.00	
Perforations	2.00			4613.00	
Change Over Sub	1.00			4614.00	
Recorder	0.00	8791	Inside	4614.00	
Recorder	0.00	8673	Outside	4614.00	
Drill Pipe	31.00			4645.00	
Change Over Sub	1.00			4646.00	
Perforations	15.00			4661.00	
Bullnose	3.00			4664.00	54.00 Bottom Packers & Anchor
Total Tool Length:	84.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Wood Energy Inc

9-19s-33w Scott, KS

PO Box 828
Mount Vernon IL 62864

Miller #9-1

Job Ticket: 46077

DST#: 1

ATTN: Tom Pronold

Test Start: 2012.05.29 @ 03:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.18 in³

Resistivity: ohm.m

Salinity: 6700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1674.00	water-100%	23.482
372.00	vsocm-3%o97%m	5.218

Total Length: 2046.00 ft Total Volume: 28.700 bbl

Num Fluid Samples: 0

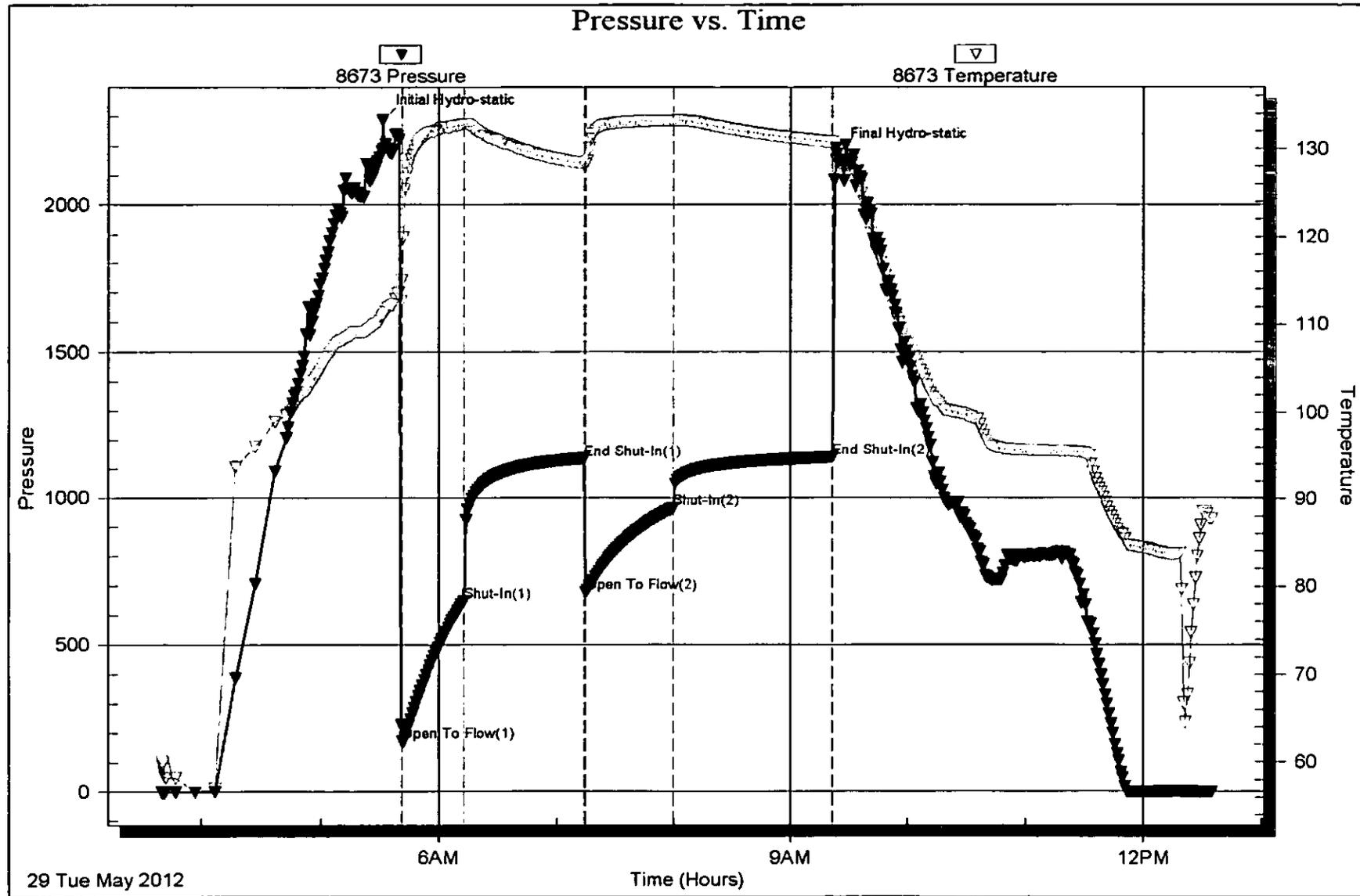
Num Gas Bombs: 0

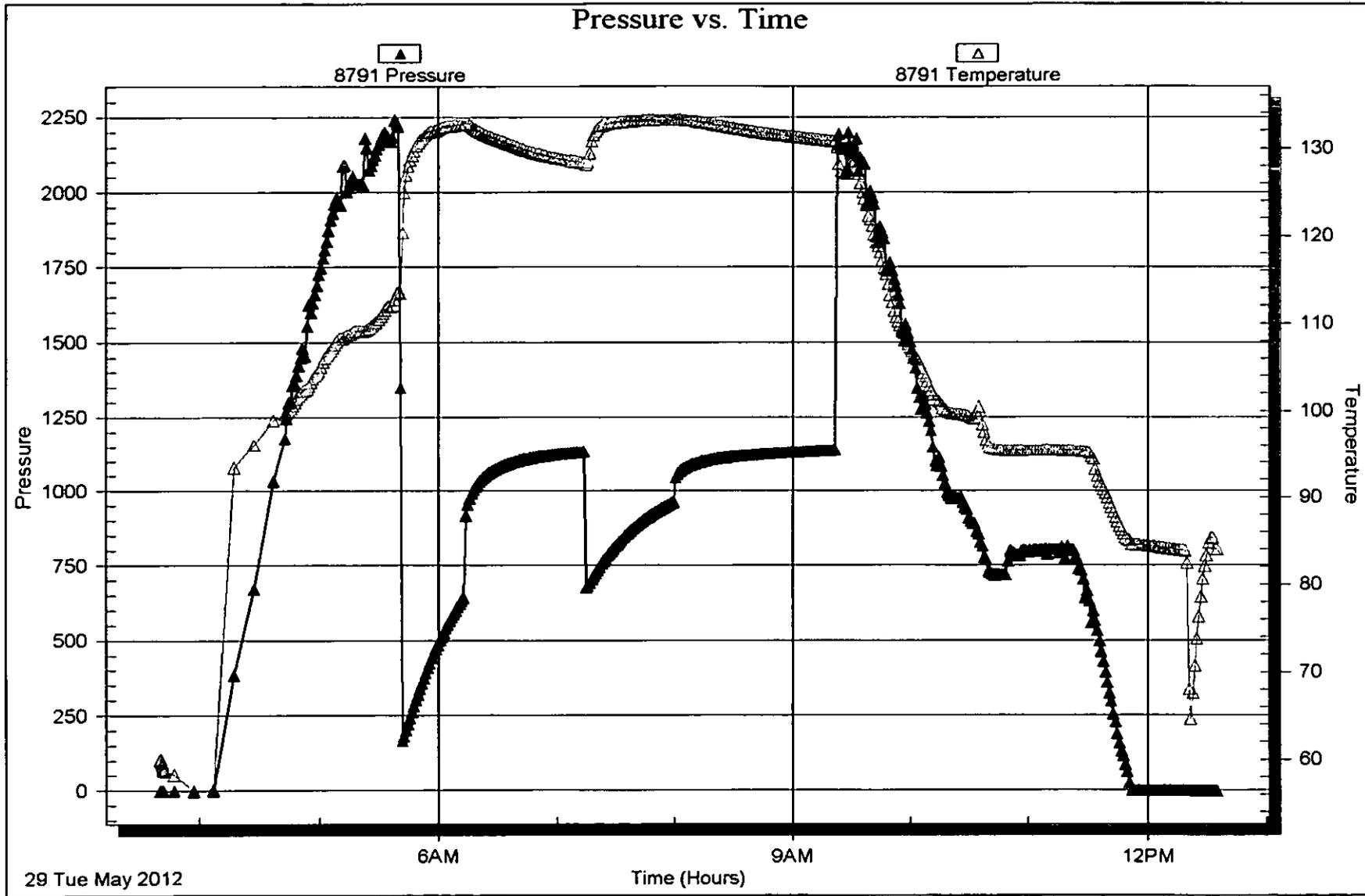
Serial #:

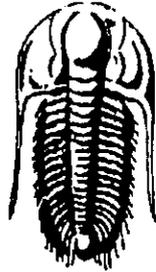
Laboratory Name:

Laboratory Location:

Recovery Comments:







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TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Wood Energy Inc**

PO Box 828
Mount Vernon IL 62864

ATTN: Tom Pronold

Miller #9-1

9-19s-33w Scott,KS

Start Date: 2012.05.30 @ 18:15:00

End Date: 2012.05.31 @ 02:10:30

Job Ticket #: 45974 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.31 @ 15:54:47

Wood Energy Inc 9-19s-33w Scott,KS Miller #9-1 DST # 2 Marnaton 2012.05.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Wood Energy Inc
PO Box 828
Mount Vernon IL 62864
ATTN: Tom Pronold

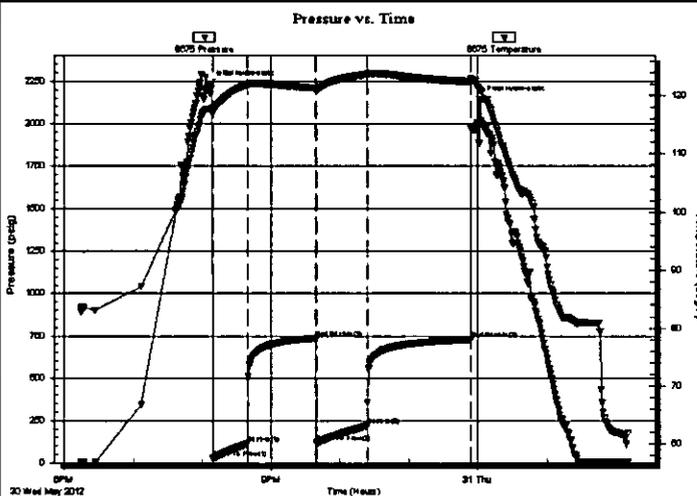
9-19s-33w Scott,KS
Miller #9-1
Job Ticket: 45974 **DST#: 2**
Test Start: 2012.05.30 @ 18:15:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:09:00
 Time Test Ended: 02:10:30
 Interval: **4375.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Total Depth: 4800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 2668.00 ft (KB)
 2658.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8675 **Inside**
 Press@RunDepth: 219.06 psig @ 4376.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.30 End Date: 2012.05.31 Last Calib.: 2012.05.31
 Start Time: 18:15:01 End Time: 02:10:30 Time On Btm: 2012.05.30 @ 20:06:45
 Time Off Btm: 2012.05.31 @ 00:02:00

TEST COMMENT: B.O.B. in 17 min.
 Bled off for 5 min. No return blow
 B.O.B. in 26 min.
 Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.89	117.73	Initial Hydro-static
3	25.57	116.79	Open To Flow (1)
33	111.11	121.84	Shut-in(1)
93	735.22	121.29	End Shut-in(1)
93	115.91	121.00	Open To Flow (2)
138	219.06	123.66	Shut-in(2)
227	727.67	122.45	End Shut-in(2)
236	2139.71	120.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
132.00	mcw 40%M 60%W	1.85
244.00	100%W	3.42

* Recovery from multiple tests

Gas Rates

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



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Wood Energy Inc
PO Box 828
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ATTN: Tom Pronold

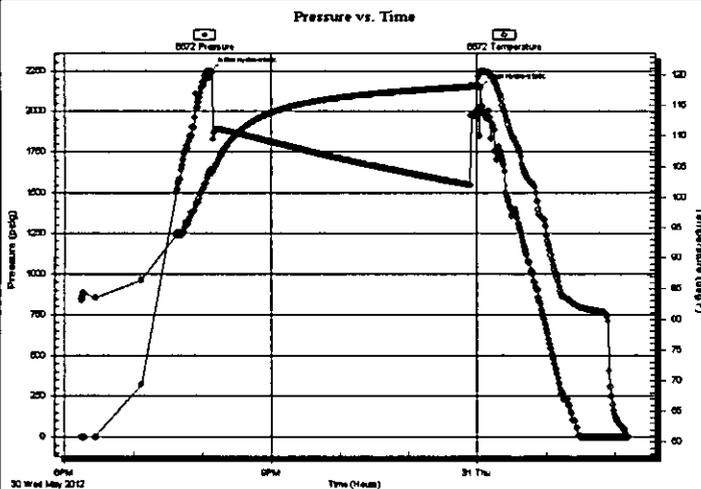
9-19s-33w Scott,KS
Miller #9-1
Job Ticket: 45974 **DST#: 2**
Test Start: 2012.05.30 @ 18:15:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 20:09:00
Time Test Ended: 02:10:30
Interval: **4375.00 ft (KB) To 4400.00 ft (KB) (TVD)**
Total Depth: 4800.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 46
Reference Elevations: 2668.00 ft (KB)
2658.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 Below (Straddle)
Press@RunDepth: psig @ 4404.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.30 End Date: 2012.05.31 Last Calib.: 2012.05.31
Start Time: 18:15:01 End Time: 02:11:45 Time On Btm: 2012.05.30 @ 20:07:15
Time Off Btm: 2012.05.31 @ 00:03:00

TEST COMMENT: B.O.B. in 17 min.
Bled off for 5 min. No return blow
B.O.B in 26 min.
Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.33	104.38	Initial Hydro-static
236	2150.23	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
132.00	mcw 40%M 60%W	1.85
244.00	100%W	3.42

* Recovery from multiple tests

Gas Rates

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



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TOOL DIAGRAM

Wood Energy Inc
PO Box 828
Mount Vernon IL 62864
ATTN: Tom Pronold

9-19s-33w Scott,KS
Miller #9-1
Job Ticket: 45974
Test Start: 2012.05.30 @ 18:15:00
DST#: 2

Tool Information

Drill Pipe:	Length: 4380.28 ft	Diameter: 3.80 inches	Volume: 61.44 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.78 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4375.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	4397.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	453.50 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4353.50	
Hydraulic tool	5.00			4358.50	
Jars	5.00			4363.50	
Safety Joint	2.50		Fluid	4366.00	
Packer	5.00			4371.00	26.50 Bottom Of Top Packer
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Recorder	0.00	8675	Inside	4376.00	
Recorder	0.00	8650	Outside	4376.00	
Perforations	0.00			4376.00	
Change Over Sub	0.00			4376.00	
drill Pipe	0.00			4376.00	
change Over Sub	0.00			4376.00	
Perforations	20.00			4396.00	
Blank Off Sub	1.00			4397.00	22.00 Tool Interval
Packer	5.00			4402.00	
Stubb	1.00			4403.00	
Change Over Sub	1.00			4404.00	
Recorder	0.00	6672	Below	4404.00	
Drill Pipe	374.00			4778.00	
Change Over Sub	1.00			4779.00	
Perforations	20.00			4799.00	
Bullnose	3.00			4802.00	405.00 Bottom Packers & Anchor
Total Tool Length:	453.50				



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ATTN: Tom Pronold

9-19s-33w Scott,KS
Miller #9-1
Job Ticket: 45974 **DST#: 2**
Test Start: 2012.05.30 @ 18:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.59 in³
Resistivity: ohm.m
Salinity: 7000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 45000 ppm

Recovery Information

Recovery Table

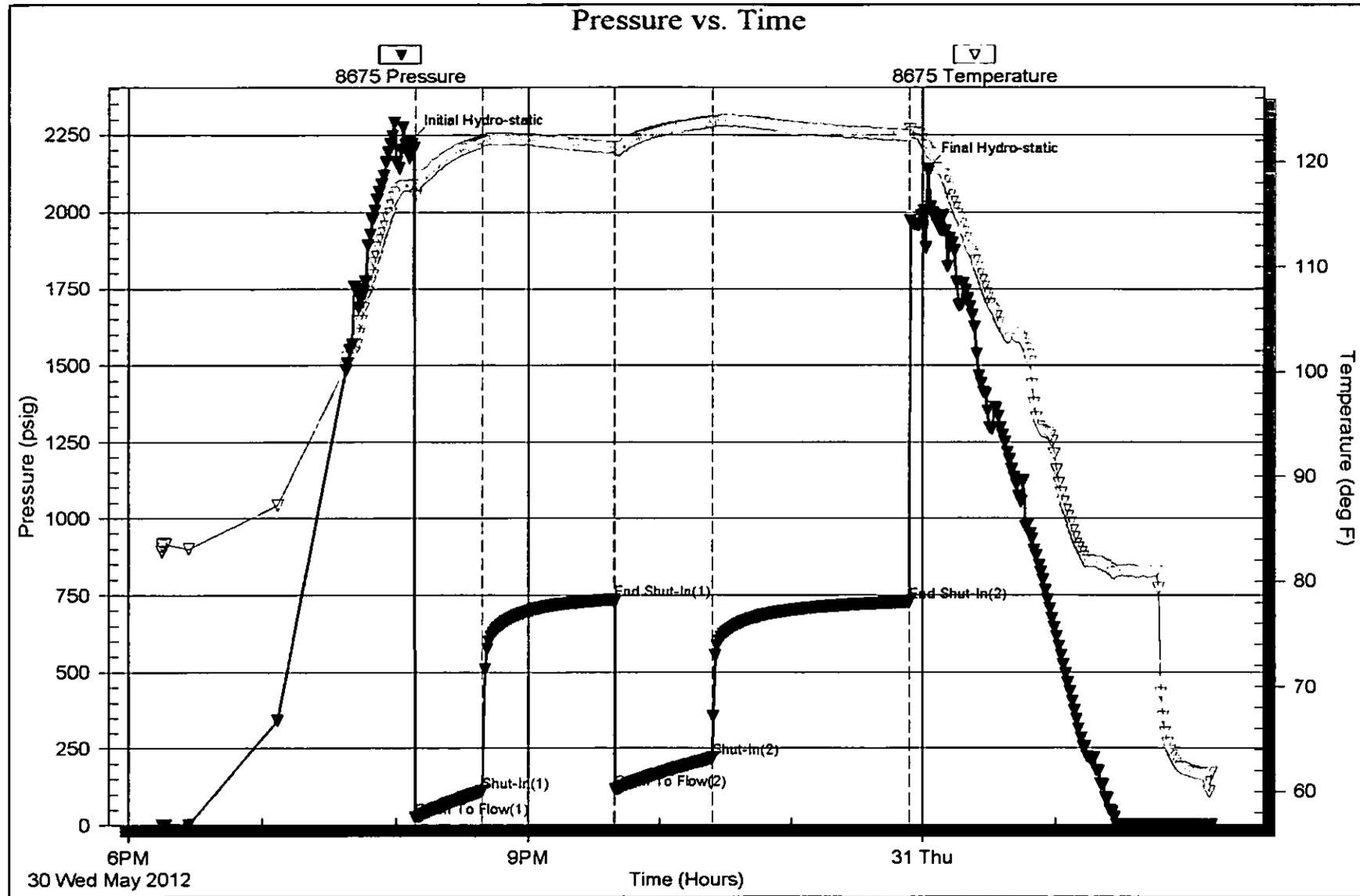
Length ft	Description	Volume bbl
132.00	mcw 40%M 60%W	1.852
244.00	100%W	3.423

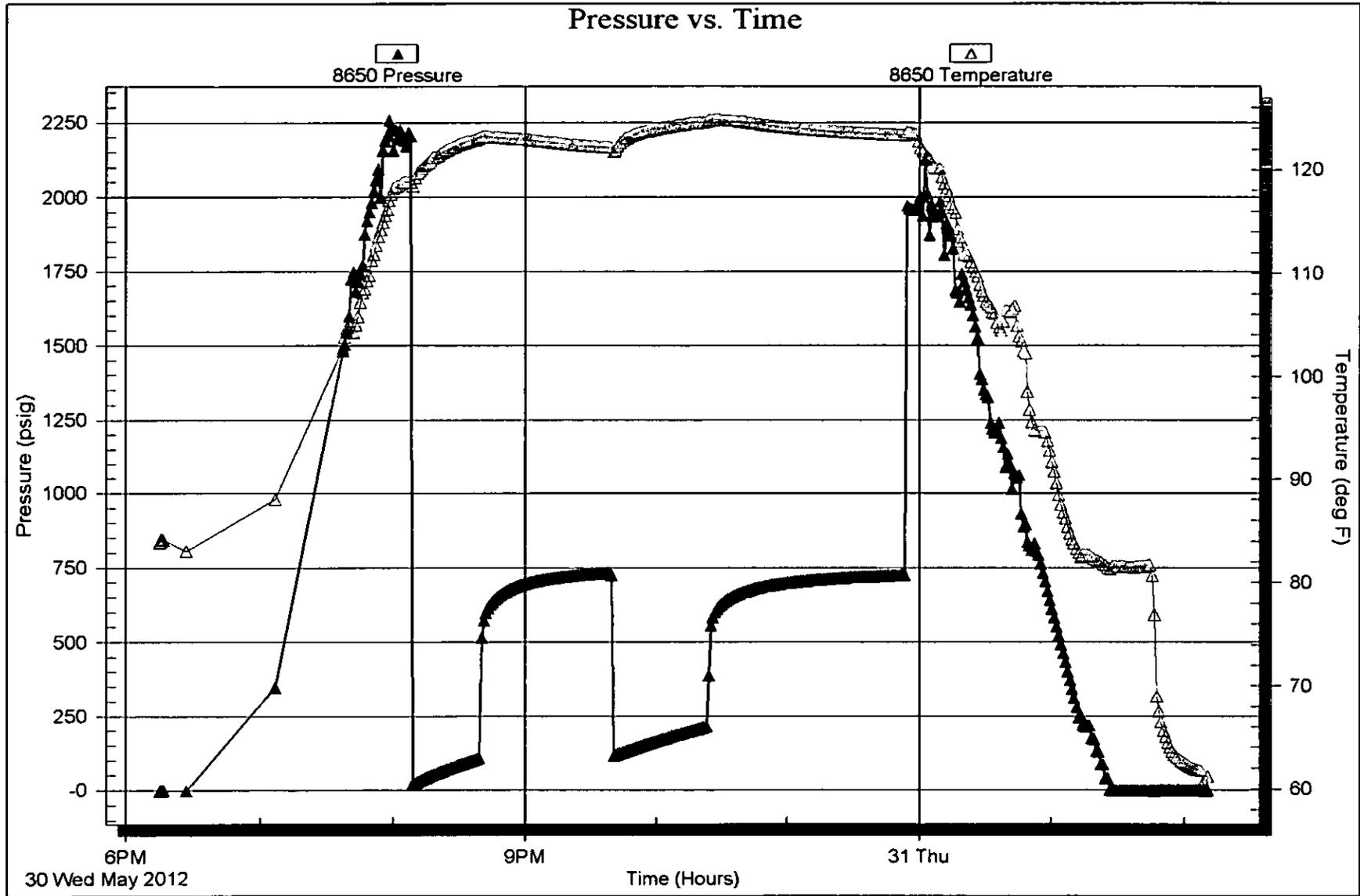
Total Length: 376.00 ft Total Volume: 5.275 bbl

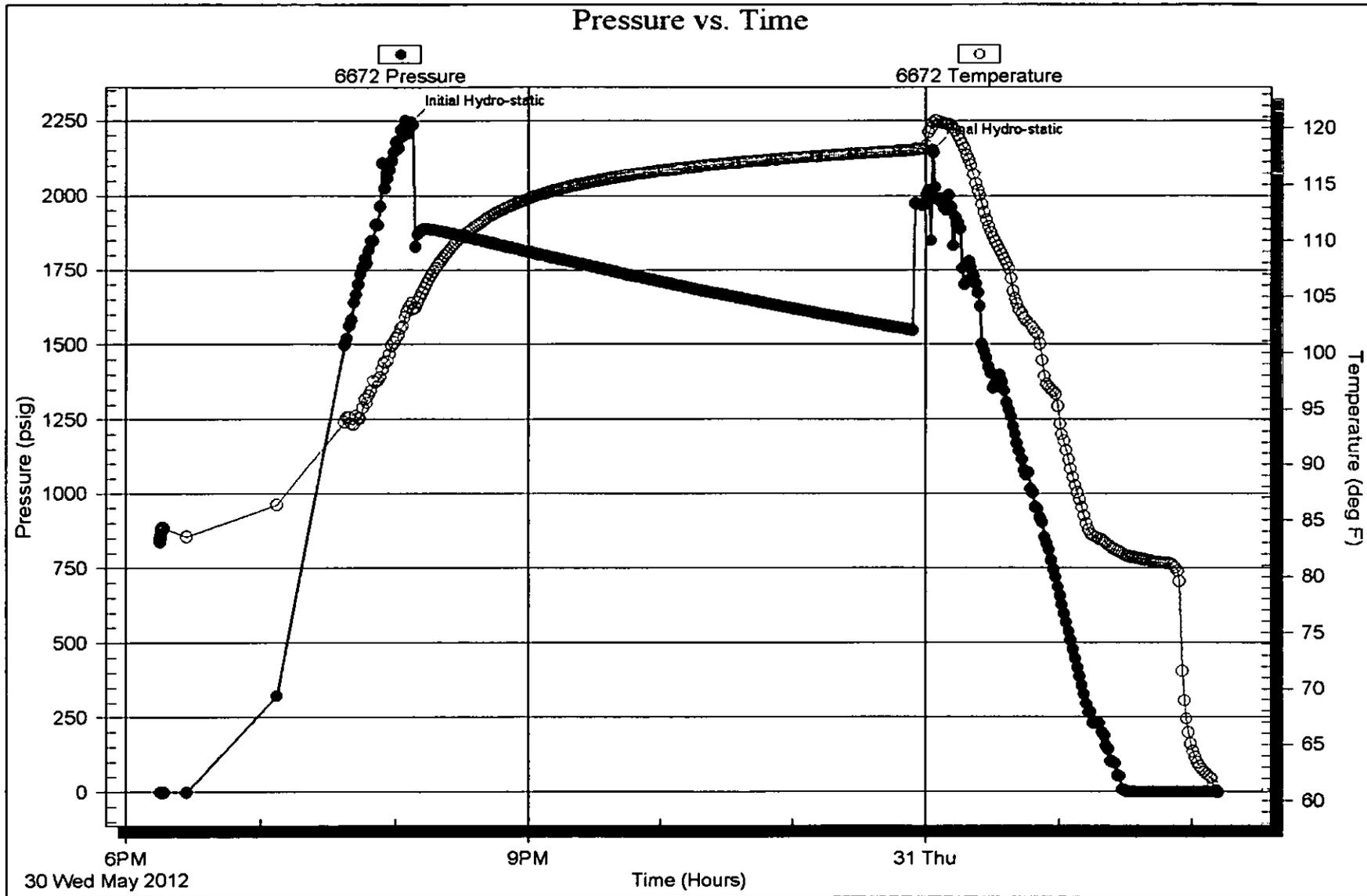
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .2 @ 55 F = 45,000









TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46077

Well Name & No. Miller 9-1 Test No. 1 Date 5-29-2012
 Company Wood energy Elevation 2668 KB 2858 GL
 Address P.O. Box 828 Mont Vernon IL 62864
 Co. Rep / Geo. Tom Pronoid Rig Duke 4
 Location: Sec. 9 Twp. 19S Rge. 33W Co. Scott State KS

Interval Tested 4610 4664 Zone Tested Marion Sand
 Anchor Length 54 Drill Pipe Run _____ Mud Wt. 8.9
 Top Packer Depth 4605 Drill Collars Run - 0 - Vis 51
 Bottom Packer Depth 4610 Wt. Pipe Run - 0 - WL 7.2
 Total Depth 4664 Chlorides 6700 ppm System LCM 3#

Blow Description IF: string blow, built to B.O.B in 1 min.
ISF: Blow Back After 10 mins. Built to 3in over 60mins
FF: string blow, built to B.O.B in 3 mins.

FSF Blow back after 8 mins built to 4 1/2 in over 90mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>372</u>	<u>Feet of vs 50' water</u>				
<u>1674</u>	<u>Feet of water</u>				
<u>0800</u>	<u>Feet of</u>				
<u> </u>	<u>Feet of</u>				
<u> </u>	<u>Feet of</u>				

Rec Total _____ BHT 130.7 Gravity _____ API RW .15 @ 80 ° F Chlorides 40,000 ppm

(A) Initial Hydrostatic <u>2286</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>3:05</u>
(B) First Initial Flow <u>172</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>3:40</u>
(C) First Final Flow <u>646</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:41</u>
(D) Initial Shut-In <u>1136</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:25</u>
(E) Second Initial Flow <u>677</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:34</u>
(F) Second Final Flow <u>965</u>	<input checked="" type="checkbox"/> Mileage <u>HS 22 = 230 + 155</u>	Comments _____
(G) Final Shut-In <u>1140</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2171</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total _____
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1606</u>	

Approved By _____ Our Representative Chuck Keuser 785-259-3188
 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45974

Well Name & No. Miller 9-1 Test No. 2 Date 5/30/12
 Company Wood Energy Elevation 2668 KB 2658 GL
 Address P.O. Box 228 Mount Vernon IL 62864
 Co. Rep / Geo. Tom Prond Rig Duke 4
 Location: Sec. 9 Twp. 19s Rge. 33w Co. Scott State KS

Interval Tested 4375 - 4400 Zone Tested Marmaton
 Anchor Length 25' 400 Tail Drill Pipe Run 4380.28 Mud Wt. 9.1
 Top Packer Depth 4370 Pipe Drill Collars Run _____ Vis 53
 Bottom Packer Depth 4375 Wt. Pipe Run _____ WL 8.6
 Total Depth 4400 4800 T.D. Chlorides 7,000 ppm System LCM 4#

Blow Description B.O.B. in 17 min.
Bled off for 5 min. No return below
B.O.B. in 26 min.
Bled off for 5 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>132</u>	<u>Feet of MCW</u>		<u>60</u>	<u>40</u>	
<u>244</u>	<u>Feet of W</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 876 BHT 123 Gravity _____ API RW 20 @ 55 °F Chlorides 45,000 ppm
 (A) Initial Hydrostatic 2,231 Test 1250 T-On Location 16:30
 (B) First Initial Flow 26 Jars 250 T-Started 18:15
 (C) First Final Flow 111 Safety Joint 75 T-Open 20:07
 (D) Initial Shut-In 735 Circ Sub N/C T-Pulled 23:54
 (E) Second Initial Flow 116 Hourly Standby _____ T-Out 2:10
 (F) Second Final Flow 219 Mileage 20 RT 31 Comments 25 Anchor
 (G) Final Shut-In 728 Sampler _____ 400 Tail Pipe
 (H) Final Hydrostatic 2,140 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total _____
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2206

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90

Approved By Tom Prond Our Representative [Signature]
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