



KANSAS CORPORATION COMMISSION 1057499  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34309  
Name: Wood Energy, Inc.  
Address 1: 3007 Broadway  
Address 2: PO Box 828  
City: Mount Vernon State: IL Zip: 62864  
Contact Person: Tom Pronold  
Phone: (618) 242-1600  
CONTRACTOR: License # 34233  
Name: Maverick Drilling LLC  
Wellsite Geologist: Tom Pronold  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
05/09/2011    05/22/2011    05/23/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-119-21290-00-00  
Spot Description: \_\_\_\_\_  
NW SE SE SW Sec. 22 Twp. 30 S. R. 26  East  West  
369 Feet from  North /  South Line of Section  
2149 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Meade  
Lease Name: Goetz Well #: 22-1  
Field Name: Unnamed  
Producing Formation: NA  
Elevation: Ground: 2539 Kelly Bushing: 2551  
Total Depth: 5480 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 1058 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: 34500 ppm Fluid volume: 1800 bbbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 106/15/2011



1057499

Operator Name: Wood Energy, Inc. Lease Name: Goetz Well #: 22-1  
 Sec. 22 Twp. 30 S. R. 26  East  West County: Meade

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log    Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>4315</td> <td>-1775</td> </tr> <tr> <td>Lansing</td> <td>4438</td> <td>-1898</td> </tr> <tr> <td>Marmaton</td> <td>4966</td> <td>-2426</td> </tr> <tr> <td>Morrow Shale</td> <td>5261</td> <td>-2721</td> </tr> <tr> <td>St. Genevieve</td> <td>5274</td> <td>-2734</td> </tr> <tr> <td>St. Louis</td> <td>5406</td> <td>-2866</td> </tr> </table>	Name	Top	Datum	Heebner	4315	-1775	Lansing	4438	-1898	Marmaton	4966	-2426	Morrow Shale	5261	-2721	St. Genevieve	5274	-2734	St. Louis	5406	-2866
Name	Top	Datum																				
Heebner	4315	-1775																				
Lansing	4438	-1898																				
Marmaton	4966	-2426																				
Morrow Shale	5261	-2721																				
St. Genevieve	5274	-2734																				
St. Louis	5406	-2866																				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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 Pipe	12.25	8.625	23	1058	Comm	230	

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	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:    Size:    Set At:    Packer At:    Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil    Bbls.    Gas    Mcf    Water    Bbls.    Gas-Oil Ratio    Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Wood Energy, Inc.
Well Name	Goetz 22-1
Doc ID	1057499

All Electric Logs Run

Dual Spaced Neutron
Array Compensated True Resistivity
Microlog
Sonic



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 01692 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <i>5-11-11</i> DISTRICT <i>1717</i>	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <i>Wood Energy</i>	LEASE <i>Goetz</i> WELL NO. <i>221</i>							
ADDRESS	COUNTY <i>Meddc</i> STATE <i>Ks</i>							
CITY STATE	SERVICE CREW <i>Cochran/Medboza/Ortiz/Canada</i>							
AUTHORIZED BY <i>Bennett IRB</i>	JOB TYPE: <i>Z 42 5077 Surface</i>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
<i>21755</i>	<i>5.5</i>	<i>33021</i>	<i>5.5</i>				<i>5-11</i>	<i>05:30</i>
<i>27901</i>	<i>5.5</i>	<i>33016</i>	<i>5.5</i>			ARRIVED AT JOB	<i>5-11</i>	<i>18:30</i>
<i>19553</i>	<i>5.5</i>					START OPERATION	<i>5-11</i>	<i>21:40</i>
<i>19827</i>	<i>5.5</i>					FINISH OPERATION	<i>5-11</i>	<i>23:00</i>
<i>19566</i>	<i>5.5</i>					RELEASED	<i>5-12</i>	<i>00:00</i>
						MILES FROM STATION TO WELL	<i>57</i>	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED *Paul E. Farmer*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL101	'A-con' Blend	sk	230		4278 00
CL110	Premium Plus	sk	150		2445 00
CC102	Cello Flake	lb	96		355 20
CC109	Calcium Chloride	lb	933		979 65
CC170	C-51	lb	44		1100 00
CF253	Guide shoe	ea	1		380 00
CF1453	Insert	ea	1		280 00
CF1773	Centralizer	ea	4		580 00
CF1903	Basket	ea	1		315 00
CF105	Top Plug	ea	1		225 00
E101	Heavy Equip. Mileage	mi	150		1050 00
CE240	Blending + Mixing Serv. Chrgs	sk	380		532 00
E163	Bulk Delivery	TM	895		1432 00
CE202	Depth Chrg 1001'-2000'	4hr	1		1500 00
CE574	Plug Container	job	1		250 00
E100	Pick-up Mileage	mi	50		212 50
3005	Service Supervisor	ea	1		175 00

SUB TOTAL *11,815 73*

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE *Mike Cook* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Paul E. Farmer*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.





**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 01671 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 5-12-11	DISTRICT 1717	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER Wood Energy		LEASE Goetz #22-1				WELL NO.	
ADDRESS		COUNTY Meade		STATE KS			
CITY		STATE		SERVICE CREW T. Gibson, J. Ortiz			
AUTHORIZED BY J. Bennett JRB		JOB TYPE: 245-Whipstock Plug					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE & TIME
34726	3						5-12-11 8:00 AM
30463-	2					ARRIVED AT JOB	11:00 AM
19843-	1					START OPERATION	11:15 AM
14355	2					FINISH OPERATION	11:30 AM
14284-	1					RELEASED	11:45 AM
						MILES FROM STATION TO WELL	50 mi

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Paul E. Farmer  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CL100	Premium/Common	sk	180		2880 00	
CC109	Calcium Chloride	lb	340		357 00	
CC112	Cement Friction Reducer	lb	85		510 00	
SY161	Pro Gel LG 200	gal	462		87 78	
E101	Heavy Equipment Mileage	mi	100		700 00	
CE240	Blending & Mixing Service	sk	180		252 00	
E113	Proppant & Bulk Delivery	cu/yd	425		680 00	
CE202	Pump Depth 1001-2000'	ea	1		1500 00	
CE504	Plug Container	ea	0			
E100	Light Mileage	mi	50		212 50	
S003	Service Supervisor	ea	1		175 00	
					SUB TOTAL	\$5515.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: Del Arroyo THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Paul E. Farmer

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



### Cement Report

Customer	Wood Energy	Lease No.		Date	5-12-11
Lease	Groetz	Well #	22-1	Service Receipt	01671
Casing	4 1/2" D.P.	Depth	1250'	County	Meade
Job Type	245 - Whipstock Plug	Legal Description	22-30-26		

Pipe Data		Perforating Data		Cement Data
Casing size	4 1/2" P.P.	Tubing Size		Lead 180 sk
Depth	1250'	Depth		Premium/Common
Volume		From	To	w/ 2% CC, 5% FR
Max Press		From	To	Tail in
Well Connection		From	To	
Plug Depth		From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00					on loc-site assessment
11:05					spot trucks - rig up
11:15					safety meeting / SSA
11:17					circ @ 1250'
11:20	50		10	3	pump 10 bbl of gel ahead
11:30	50		32	3	mix + pump 180 sk Premium / Common w/ 2% CC, 5% FR
					1.00 ft <sup>3</sup> /sk 3.76 gal/sk @ 170ppg
11:30	50		1	3	pump 1 bbl gel behind
11:36	50		14	3	disp balanced plug
					job complete
					- d.p. @ 1250', 202' of open hole (12 1/4") ± 60' inside surface, loc @ ± 988'

Service Units	34726	30463-1983	14355-14354	
Driver Names	A. Oliver	T. Gibson	T. Gatz	

L. Forner Customer Representative     
 T. Bennett Station Manager     
 A. Oliver Cementer







# Cement Report

Customer <b>Wood Energy</b>	Lease No.	Date <b>5-23-11</b>
Lease <b>Goetz</b>	Well # <b>22-1</b>	Service Receipt <b>1650A</b>
Casing	Depth	County <b>Meade</b> State <b>Ks</b>
Job Type <b>2-44 PTA</b>	Formation	Legal Description

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size	Shots/Ft		Lead
Depth	Depth	From	To	<b>60'40 ppg</b>
Volume	Volume	From	To	
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	Tail in

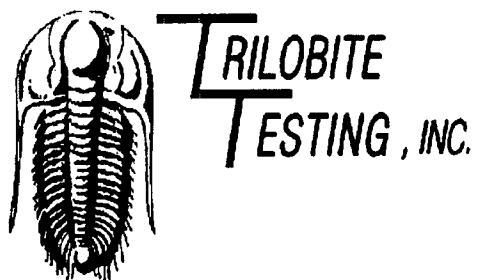
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
330					ON location safety mtg
430					Rigged up wait on Rig to Logdown
715					pressure Test IRON
720		6	14.	2.0	Run 1st plug @ 13.5 ppg @ 1450ft
730		0	0	0	shut down
758		0	13.7	2.5	Run 2nd plug @ 13.5 ppg @ 1080ft
804		0	15	2.5	displacement
810		0	0	0	shut down
847		0	13.4	2.5	start 3rd plug 13.5 ppg @ 470ft
853		0	6	2.5	displacement
856		0	0	0	shut down
915		0	5	2	Run 4th plug 13.5 ppg @ 60ft
918		0	0	0	shut down
930		0	8	2	plug Bat Hole
935		0	6	2	plug mouse Hole
938		0	0	0	shut down / Rig down
<b>Thanks for the Business</b>					

Service Units	30463	19843	19828	19883	
Driver Names	TJ	Gibson	Hector	Esqueda	

Carl E. Farmer  
Customer Representative

Station Manager

Rublo  
Cementer



## DRILL STEM TEST REPORT

Prepared For: **Wood Energy Inc.**  
3007 Broadway  
Mount Vernon, IL 62864

ATTN: Tom Pronhold

**22-30-26 Meade,KS**

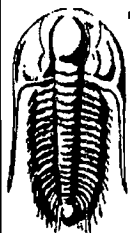
**Goetz 22-1**

Start Date: 2011.05.16 @ 21:00:00

End Date: 2011.05.17 @ 03:19:00

Job Ticket #: 39428                      DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

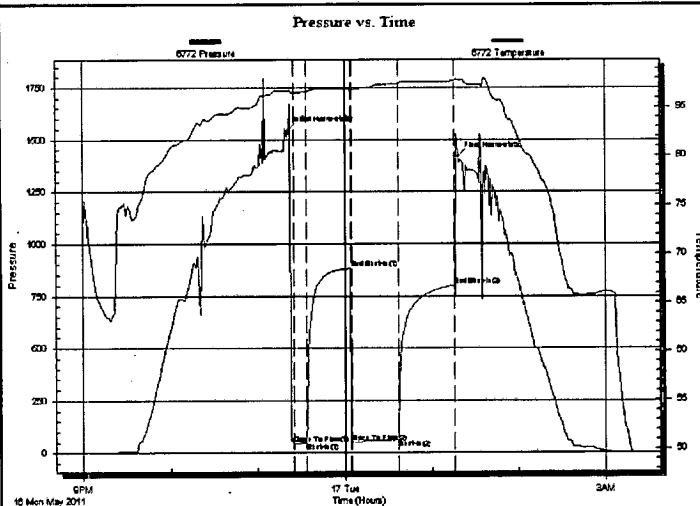
**Goetz 22-1**  
**22-30-26 Meade, KS**  
Job Ticket: 39428      **DST#: 1**  
Test Start: 2011.05.16 @ 21:00:00

### GENERAL INFORMATION:

Formation: **Ft. Riley**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 23:25:00  
Time Test Ended: 03:19:00  
Interval: **2895.00 ft (KB) To 2953.00 ft (KB) (TVD)**  
Total Depth: 2953.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Reference Elevations: 2549.00 ft (KB)  
2539.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6772      Outside**  
Press@RunDepth: 61.53 psig @ 2897.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.16      End Date: 2011.05.17      Last Calib.: 2011.05.17  
Start Time: 21:00:05      End Time: 03:18:59      Time On Btm: 2011.05.16 @ 23:21:00  
Time Off Btm: 2011.05.17 @ 01:18:00

**TEST COMMENT:** IF- Weak blow 1" into bucket.  
IS- No blow back.  
FF- Weak blow 1" into bucket.  
FS- No blow back.



### PRESSURE SUMMARY

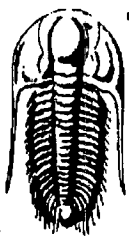
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1544.53	86.77	Initial Hydro-static
4	44.91	86.48	Open To Flow (1)
13	48.82	86.60	Shut-In(1)
43	882.37	86.95	End Shut-In(1)
44	50.41	86.78	Open To Flow (2)
76	61.53	87.45	Shut-In(2)
115	801.88	87.68	End Shut-In(2)
117	1417.61	87.84	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
62.00	100% mud	0.87

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

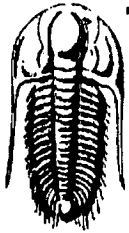
**Goetz 22-1**  
**22-30-26 Meade, KS**  
Job Ticket: 39428      **DST#: 1**  
Test Start: 2011.05.16 @ 21:00:00

### Tool Information

Drill Pipe:	Length: 2895.00 ft	Diameter: 3.80 inches	Volume: 40.61 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 40.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	2895.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 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			2868.00	
Shut In Tool	5.00			2873.00	
Hydraulic tool	5.00			2878.00	
Jars	5.00			2883.00	
Safety Joint	3.00			2886.00	
Packer	5.00			2891.00	28.00      Bottom Of Top Packer
Packer	4.00			2895.00	
Stubb	1.00			2896.00	
Perforations	1.00			2897.00	
Recorder	0.00	8355	Inside	2897.00	
Recorder	0.00	6772	Outside	2897.00	
Change Over Sub	1.00			2898.00	
Perforations	31.00			2929.00	
Change Over Sub	1.00			2930.00	
Perforations	20.00			2950.00	
Bullnose	3.00			2953.00	58.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>86.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39428      **DST#: 1**  
Test Start: 2011.05.16 @ 21:00:00

**Mud and Cushion Information**

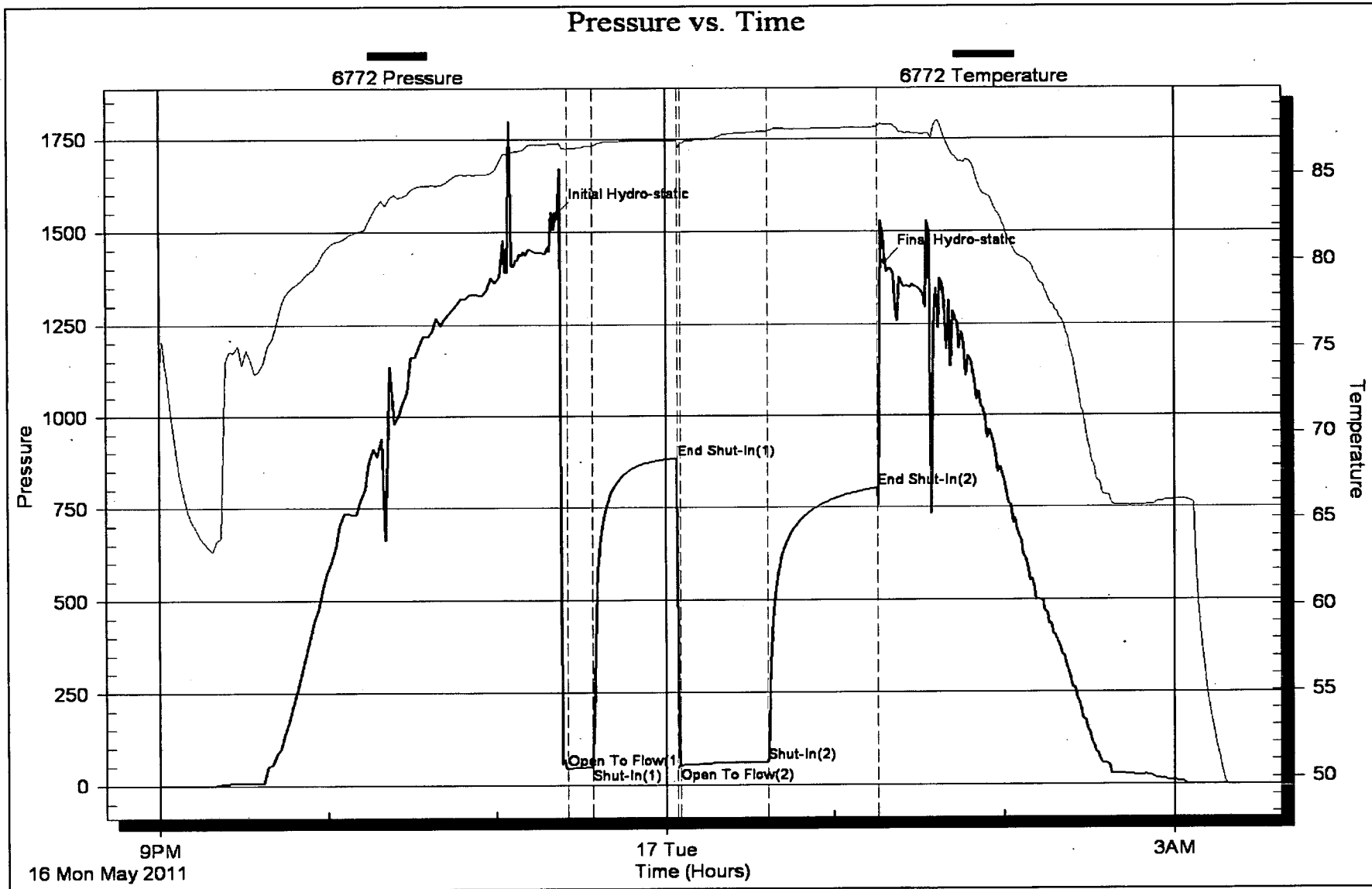
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 28.00 sec/qt	Cushion Volume: bbl		
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 61000.00 ppm			
Filter Cake: inches			

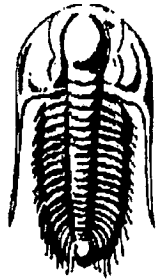
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
62.00	100% mud	0.870

Total Length: 62.00 ft      Total Volume: 0.870 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Wood Energy Inc.**

3007 Broadway  
Mount Vernon, IL 62864

ATTN: Tom Pronhold

**22-30-26 Meade,KS**

**Goetz 22-1**

Start Date: 2011.05.17 @ 17:00:00

End Date: 2011.05.18 @ 00:23:45

Job Ticket #: 39429                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Wood Energy Inc.

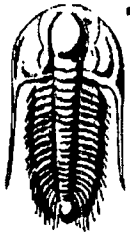
Goetz 22-1

22-30-26 Meade,KS

DST # 2

Council Grove

2011.05.17



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

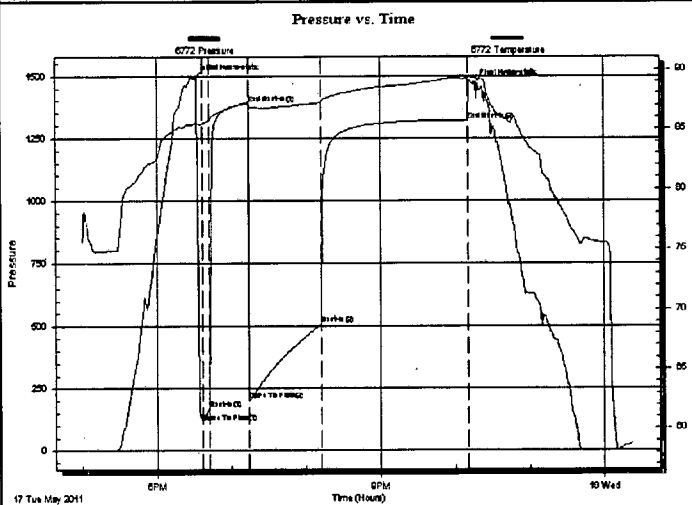
**Goetz 22-1**  
**22-30-26 Meade, KS**  
Job Ticket: 39429      **DST#: 2**  
Test Start: 2011.05.17 @ 17:00:00

### GENERAL INFORMATION:

Formation: **Council Grove**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 18:36:30  
Time Test Ended: 00:23:45  
Interval: **3020.00 ft (KB) To 3095.00 ft (KB) (TVD)**  
Total Depth: 3095.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Reference Elevations: 2549.00 ft (KB)  
2539.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6772      Outside**  
Press@RunDepth: 507.20 psig @ 3022.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.17      End Date: 2011.05.18      Last Calib.: 2011.05.18  
Start Time: 17:00:05      End Time: 00:23:44      Time On Btm: 2011.05.17 @ 18:30:30  
Time Off Btm: 2011.05.17 @ 22:15:15

**TEST COMMENT:** IF- Strong blow BOB ASAO, No GTS.  
IS- No blow back.  
FF- Strong blow BOB 5min. No GTS.  
FS- No blow back.



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1491.23	85.47	Initial Hydro-static
6	114.43	85.40	Open To Flow (1)
12	169.91	85.66	Shut-In(1)
44	1389.78	87.31	End Shut-In(1)
44	205.18	86.97	Open To Flow (2)
102	507.20	87.22	Shut-In(2)
220	1321.71	89.22	End Shut-In(2)
225	1468.93	89.27	Final Hydro-static

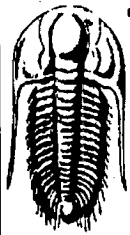
### Recovery

Length (ft)	Description	Volume (bbl)
1150.00	100% w ater	16.13

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

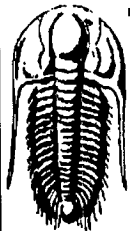
**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39429      **DST#: 2**  
Test Start: 2011.05.17 @ 17:00:00

**Tool Information**

Drill Pipe:	Length: 3017.00 ft	Diameter: 3.80 inches	Volume: 42.32 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 42.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3020.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 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			2993.00	
Shut In Tool	5.00			2998.00	
Hydraulic tool	5.00			3003.00	
Jars	5.00			3008.00	
Safety Joint	3.00			3011.00	
Packer	5.00			3016.00	28.00      Bottom Of Top Packer
Packer	4.00			3020.00	
Stubb	1.00			3021.00	
Perforations	1.00			3022.00	
Recorder	0.00	8355	Inside	3022.00	
Recorder	0.00	6772	Outside	3022.00	
Change Over Sub	1.00			3023.00	
Drill Pipe	62.00			3085.00	
Change Over Sub	1.00			3086.00	
Perforations	6.00			3092.00	
Bullnose	3.00			3095.00	75.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>103.00</b>				



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39429      **DST#: 2**  
Test Start: 2011.05.17 @ 17:00:00

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 28.00 sec/qt  
Water Loss: in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 61000.00 ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: 13000 ppm

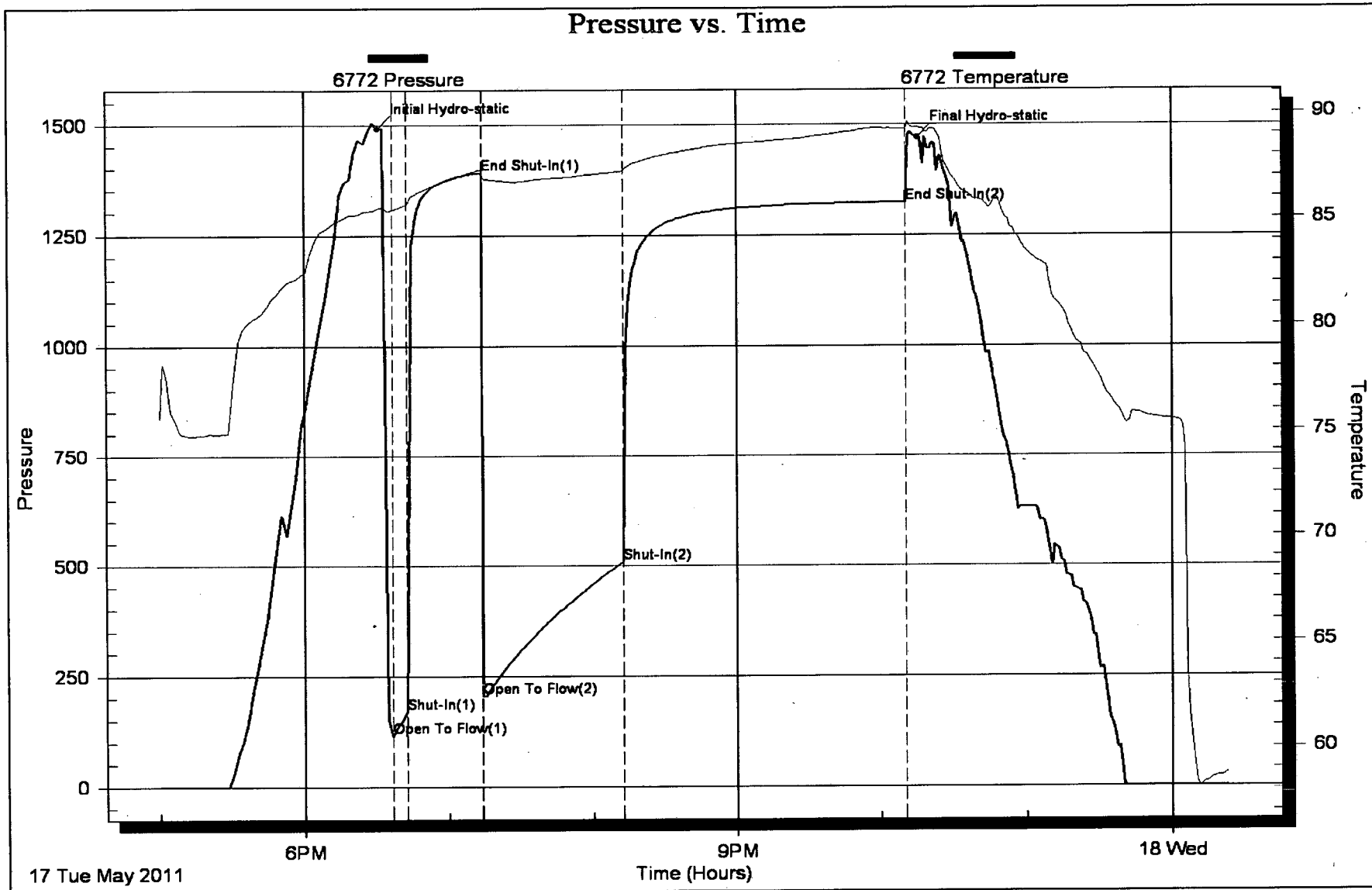
**Recovery Information**

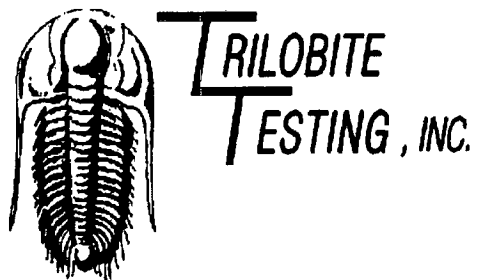
Recovery Table

Length ft	Description	Volume bbl
1150.00	100% water	16.131

Total Length: 1150.00 ft      Total Volume: 16.131 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW .55 @ 65= 13000 ppm





## DRILL STEM TEST REPORT

Prepared For: **Wood Energy Inc.**  
3007 Broadway  
Mount Vernon, IL 62864

ATTN: Tom Pronhold

**22-30-26 Meade,KS**

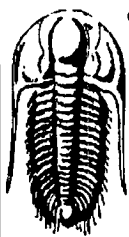
**Goetz 22-1**

Start Date: 2011.05.18 @ 20:45:00

End Date: 2011.05.19 @ 00:56:45

Job Ticket #: 39430                      DST #: 3

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

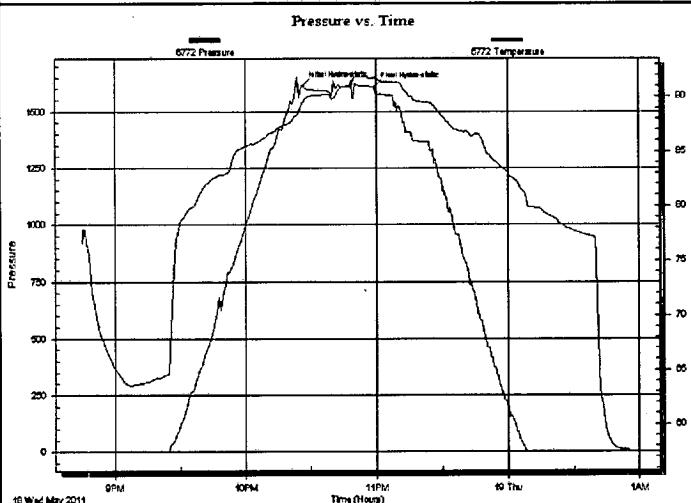
**Goetz 22-1**  
**22-30-26 Meade, KS**  
Job Ticket: 39430      **DST#: 3**  
Test Start: 2011.05.18 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Wab.**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened:  
Time Test Ended: 00:56:45  
Interval: **3525.00 ft (KB) To 3574.00 ft (KB) (TVD)**  
Total Depth: 3574.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Reference Elevations: 2549.00 ft (KB)  
2539.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6772      Outside**  
Press@RunDepth:      psig @ 3528.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.18      End Date: 2011.05.19      Last Calib.: 2011.05.19  
Start Time: 20:45:05      End Time: 00:56:45      Time On Btm: 2011.05.18 @ 22:26:30  
Time Off Btm: 2011.05.18 @ 22:59:00

TEST COMMENT: Miss Run



## PRESSURE SUMMARY

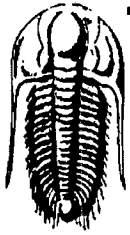
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.57	89.49	Initial Hydro-static
33	1609.24	91.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Miss run	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

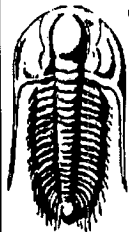
**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39430      **DST#: 3**  
Test Start: 2011.05.18 @ 20:45:00

**Tool Information**

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 49.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3525.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	76.00 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			3499.00	
Shut In Tool	5.00			3504.00	
Hydraulic tool	5.00			3509.00	
Jars	5.00			3514.00	
Safety Joint	2.00			3516.00	
Packer	5.00			3521.00	27.00      Bottom Of Top Packer
Packer	4.00			3525.00	
Stubb	1.00			3526.00	
Perforations	2.00			3528.00	
Recorder	0.00	8355	Inside	3528.00	
Recorder	0.00	6772	Outside	3528.00	
Change Over Sub	1.00			3529.00	
Drill Pipe	31.00			3560.00	
Change Over Sub	1.00			3561.00	
Perforations	10.00			3571.00	
Bullnose	3.00			3574.00	49.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>76.00</b>				



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39430      **DST#: 3**  
Test Start: 2011.05.18 @ 20:45:00

**Mud and Cushion Information**

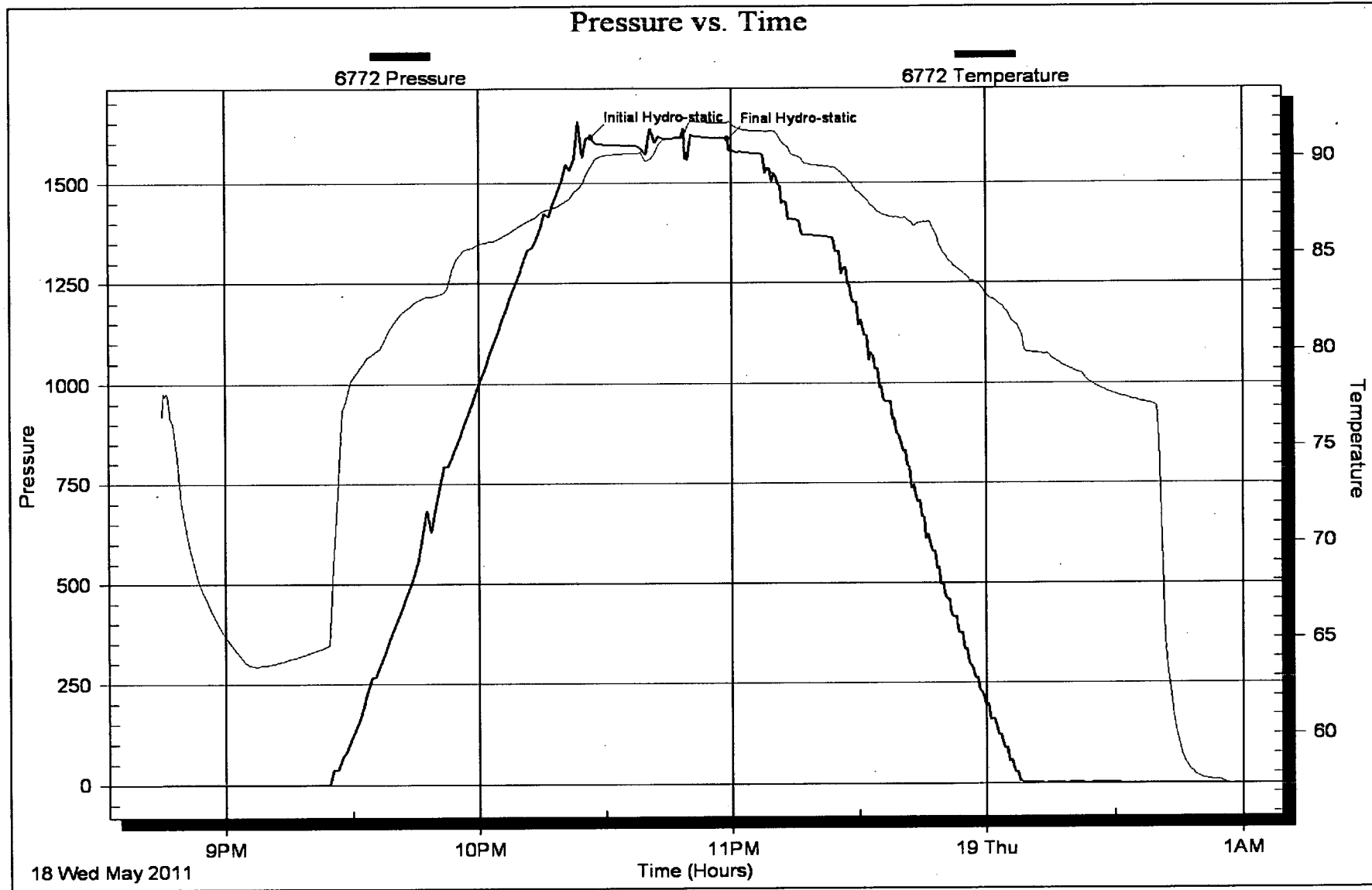
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: .	Water Salinity:	ppm
Viscosity: 42.00 sec/qt	Cushion Volume:		
Water Loss: 9.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 3300.00 ppm			
Filter Cake: inches			

**Recovery Information**

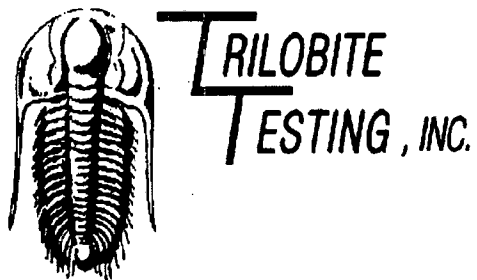
Recovery Table

Length ft	Description	Volume bbl
0.00	Miss run	0.000

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







## DRILL STEM TEST REPORT

Prepared For: **Wood Energy Inc.**  
3007 Broadway  
Mount Vernon, IL 62864

ATTN: Tom Pronhold

**22-30-26 Meade,KS**

**Goetz 22-1**

Start Date: 2011.05.19 @ 08:00:00

End Date: 2011.05.19 @ 13:43:00

Job Ticket #: 39431                      DST #: 4

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39431      **DST#: 4**  
Test Start: 2011.05.19 @ 08:00:00

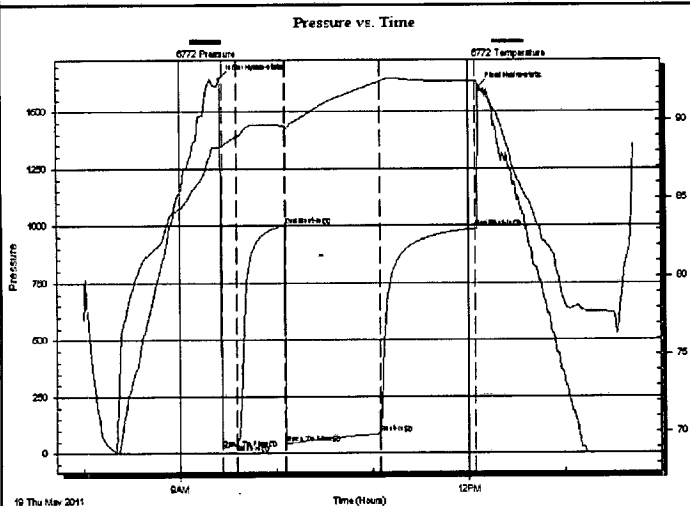
## GENERAL INFORMATION:

Formation: **Wabaunsee**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 09:26:30  
Time Test Ended: 13:43:00  
Interval: **3526.00 ft (KB) To 3574.00 ft (KB) (TVD)**  
Total Depth: 3574.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Reference Elevations: 2549.00 ft (KB)  
2539.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6772      Outside**  
Press@RunDepth: 85.83 psig @ 3529.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.19      End Date: 2011.05.19      Last Calib.: 2011.05.19  
Start Time: 08:00:05      End Time: 13:42:59      Time On Btm: 2011.05.19 @ 09:25:00  
Time Off Btm: 2011.05.19 @ 12:06:45

**TEST COMMENT:** IF- Strong blow BOB 1 min.  
IS- No blow back.  
FF- Strong blow BOB 9 min.  
FS- No blow back.



## PRESSURE SUMMARY

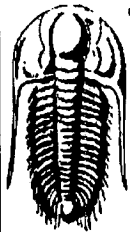
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.95	88.22	Initial Hydro-static
2	23.86	88.29	Open To Flow (1)
11	38.37	88.91	Shut-In(1)
41	1001.18	89.61	End Shut-In(1)
41	44.54	89.37	Open To Flow (2)
100	85.83	92.43	Shut-In(2)
160	987.16	92.46	End Shut-In(2)
162	1607.89	91.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	310 GIP	0.00
160.00	30% mud 70% water trace of gas	2.24

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Wood Energy Inc.

**Goetz 22-1**

3007 Broadway  
Mount Vernon, IL 62864

**22-30-26 Meade,KS**

Job Ticket: 39431

**DST#: 4**

ATTN: Tom Pronhold

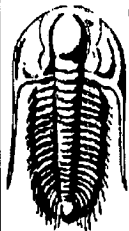
Test Start: 2011.05.19 @ 08:00:00

### Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3526.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 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			3500.00	
Shut In Tool	5.00			3505.00	
Hydraulic tool	5.00			3510.00	
Jars	5.00			3515.00	
Safety Joint	2.00			3517.00	
Packer	5.00			3522.00	27.00 Bottom Of Top Packer
Packer	4.00			3526.00	
Stubb	1.00			3527.00	
Perforations	2.00			3529.00	
Recorder	0.00	8355	Inside	3529.00	
Recorder	0.00	6772	Outside	3529.00	
Change Over Sub	1.00			3530.00	
Drill Pipe	31.00			3561.00	
Change Over Sub	1.00			3562.00	
Perforations	9.00			3571.00	
Bullnose	3.00			3574.00	48.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>75.00</b>			



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Wood Energy Inc.  
3007 Broadway  
Mount Vernon, IL 62864  
ATTN: Tom Pronhold

**Goetz 22-1**  
**22-30-26 Meade,KS**  
Job Ticket: 39431      **DST#: 4**  
Test Start: 2011.05.19 @ 08:00:00

**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: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: .inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	310 GIP	0.000
160.00	30% mud 70% w ater trace of gas	2.244

Total Length: 160.00 ft      Total Volume: 2.244 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

