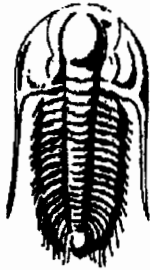


36-4s-30w



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Great Plains Energy**

429 N Linden  
Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**36-4s-30w Decatur**

**Wasson Brothers Farms #3**

Start Date: 2006.02.10 @ 18:23:53

End Date: 2006.02.11 @ 01:30:47

Job Ticket #: 23188                      DST #: 1

15-039-20962-00-00

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Great Plains Energy

Wasson Brothers Farms #3

36-4s-30w Decatur

DST # 1

LKC "A"

2006.02.10





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Great Plains Energy

Wasson Brothers Farms #3

429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**36-4s-30w Decatur**  
Job Ticket: 23188      DST#: 1  
Test Start: 2006.02.10 @ 18:23:53

**Tool Information**

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.80 inches	Volume: 53.15 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.75 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3917.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3895.00	
Shut in Tool	5.00			3900.00	
Hydraulic tool	5.00			3905.00	
Jars	5.00			3910.00	
Safety Joint	2.00			3912.00	
Packer	5.00			3917.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			3921.00	
Stubb	1.00			3922.00	
Recorder	0.00	6772	Inside	3922.00	
Perforations	16.00			3938.00	
Recorder	0.00	7437	Outside	3938.00	
Bullnose	5.00			3943.00	26.00 Anchor Tool

**Total Tool Length: 49.00**

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

Wasson Brothers Farms #3

429 N Linden

36-4s-30w Decatur

Box 292

Job Ticket: 23188

DST#: 1

Wahoo NE 68066

ATTN: Richard Bell

Test Start: 2006.02.10 @ 18:23:53

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
308.00	mcw 95%w 5%m	3.209
185.00	mcw 90%w 10%m	2.595
1.00	Free oil 100%o	0.014

Total Length: 494.00 ft

Total Volume: 5.818 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

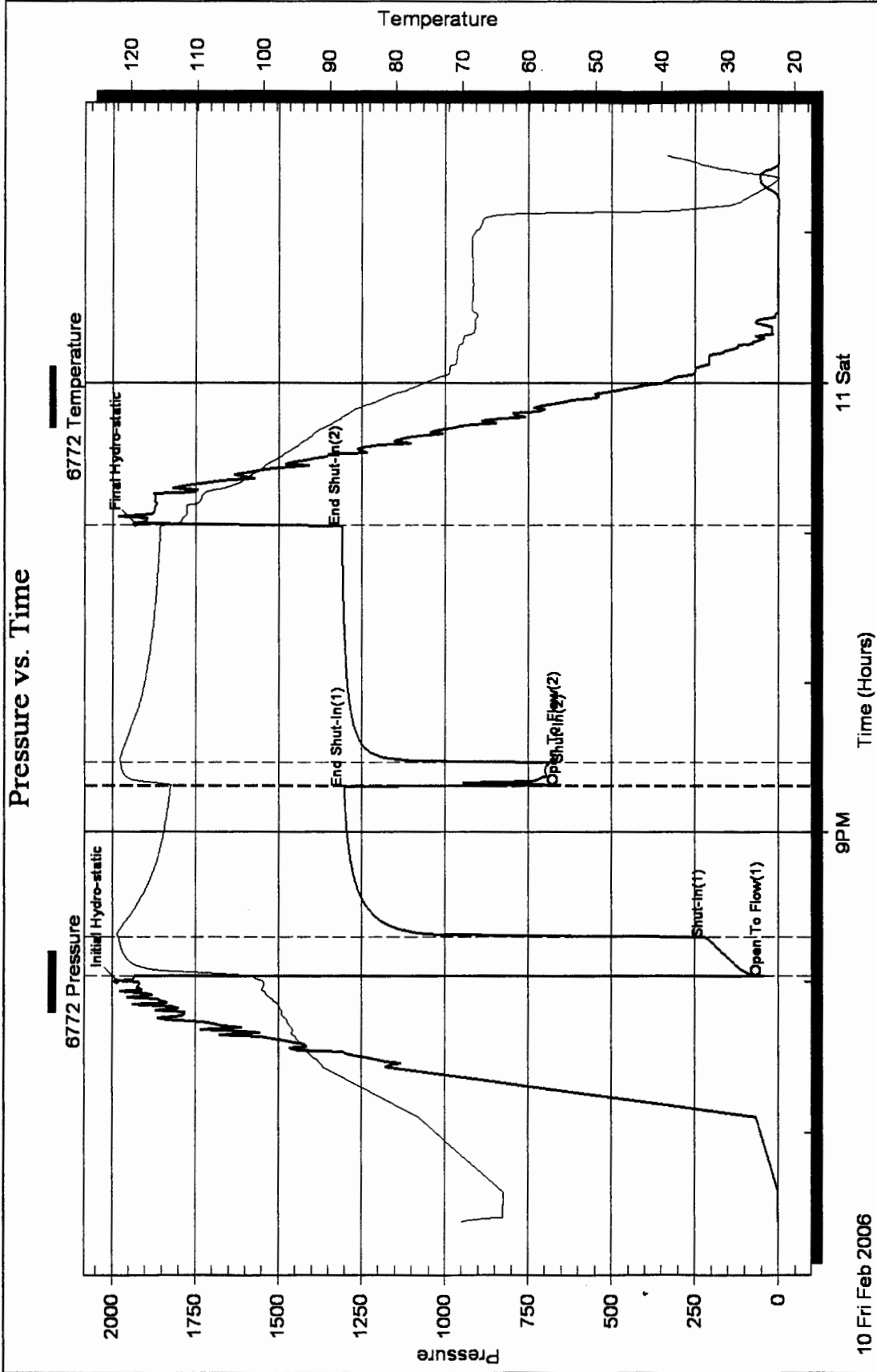
Inside

Great Plains Energy

36-4s-30w Decatur

DST Test Number: 1

### Pressure vs. Time



10 Fri Feb 2006

9PM

Time (Hours)

11 Sat

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Emphite Testing, Inc

Ref. No: 23188

Printed: 2006.02.20 @ 13:39:41 Page 5



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden  
Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**36-4s-30w Decatur**

**Wasson Brothers Farms #3**

Start Date: 2006.02.11 @ 12:49:35

End Date: 2006.02.11 @ 19:13:44

Job Ticket #: 23189                      DST #: 2

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

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Energy  
429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**Wasson Brothers Farms #3**  
**36-4s-30w Decatur**  
Job Ticket: 23189      **DST#: 2**  
Test Start: 2006.02.11 @ 12:49:35

### GENERAL INFORMATION:

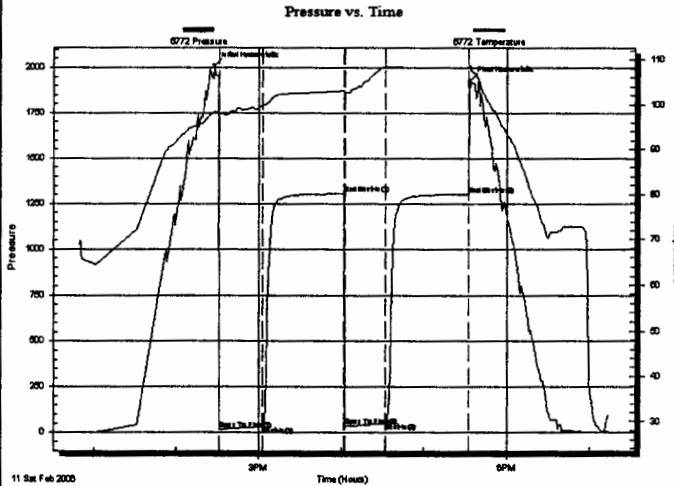
Formation: LKC C-D-E  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:31:30  
Time Test Ended: 19:13:44  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Interval: 3956.00 ft (KB) To 3986.00 ft (KB) (TVD)  
Reference Elevations: 2844.00 ft (KB)  
Total Depth: 3986.00 ft (KB) (TVD)      2839.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 5.00 ft

### Serial #: 6772

Inside

Press@RunDepth: 51.61 psig @ 3961.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.02.11      End Date: 2006.02.11      Last Calib.: 1899.12.30  
Start Time: 12:49:35      End Time: 19:13:44      Time On Btm: 2006.02.11 @ 14:27:45  
Time Off Btm: 2006.02.11 @ 17:33:29

TEST COMMENT: IF: Surface blow died in 11 min.  
IS: No return.  
FF: No blow.  
FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.09	98.47	Initial Hydro-static
4	15.61	97.83	Open To Flow (1)
35	33.85	99.90	Shut-In(1)
94	1304.14	103.08	End Shut-In(1)
95	35.74	102.76	Open To Flow (2)
125	51.61	108.51	Shut-In(2)
185	1301.51	108.23	End Shut-In(2)
186	1932.64	108.57	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud some oil spots 100% m	0.30

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Great Plains Energy

Wasson Brothers Farms #3

429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**36-4s-30w Decatur**  
Job Ticket: 23189      DST#: 2  
Test Start: 2006.02.11 @ 12:49:35

**Tool Information**

Drill Pipe:	Length: 3820.00 ft	Diameter: 3.80 inches	Volume: 53.58 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3956.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Jars	5.00			3949.00	
Safety Joint	2.00			3951.00	
Packer	5.00			3956.00	23.00      Bottom Of Top Packer
Packer - Shale	4.00			3960.00	
Stubb	1.00			3961.00	
Recorder	0.00	6772	Inside	3961.00	
Perforations	24.00			3985.00	
Recorder	0.00	7437	Outside	3985.00	
Bullnose	5.00			3990.00	34.00      Anchor Tool

**Total Tool Length: 57.00**

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy

**Wasson Brothers Farms #3**

429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**36-4s-30w Decatur**  
Job Ticket: 23189      **DST#: 2**  
Test Start: 2006.02.11 @ 12:49:35

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	mud some oil spots 100%m	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 #: 6772

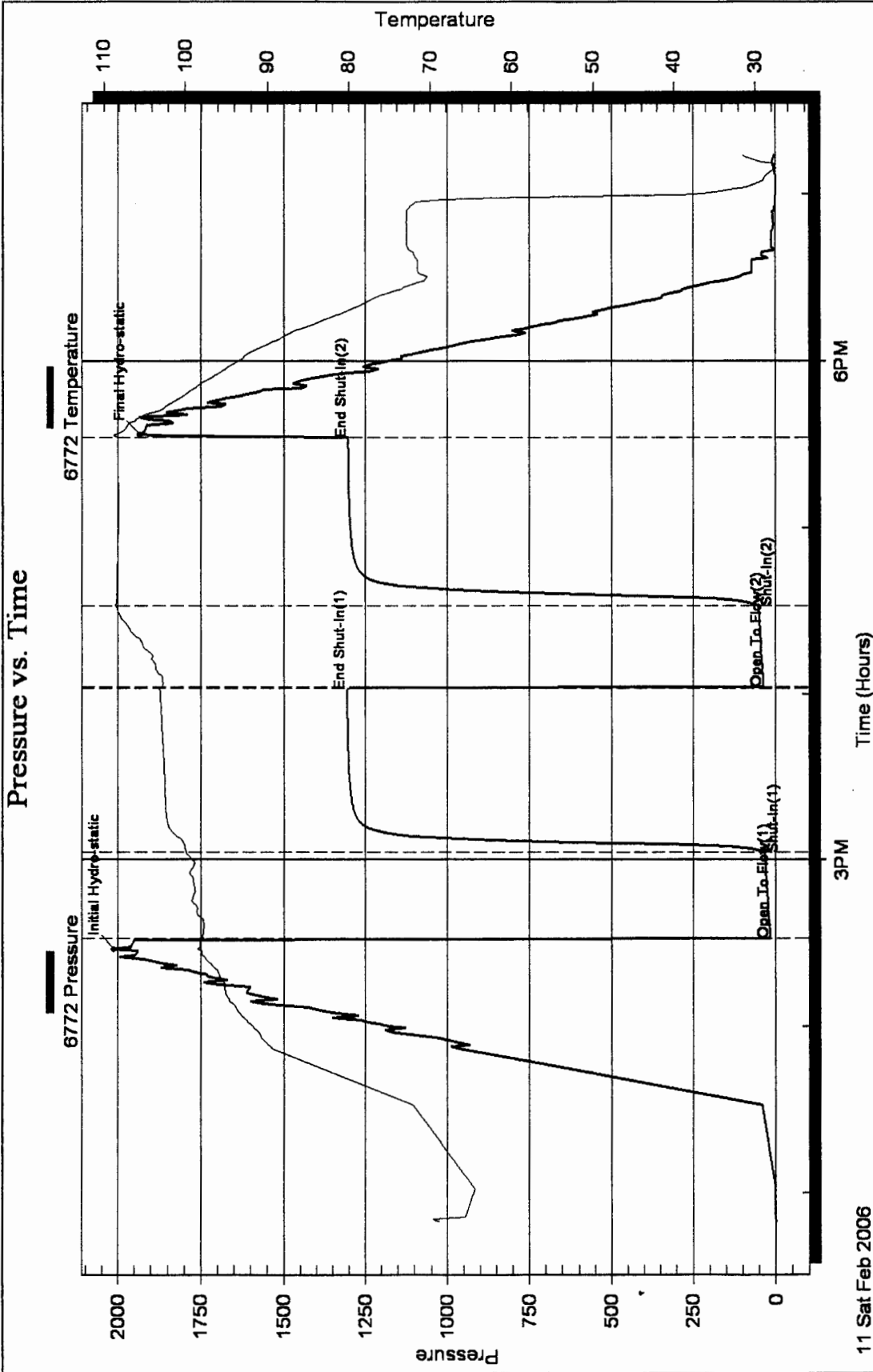
Inside

Great Plains Energy

36-4s-30w Decatur

DST Test Number: 2

### Pressure vs. Time



11 Sat Feb 2006

Time (Hours)

6PM

3PM

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Tribolite Testing, Inc

Ref. No: 23189

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## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden  
Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**36-4s-30w Decatur**

**Wasson Brothers Farms #3**

Start Date: 2006.02.12 @ 04:18:21

End Date: 2006.02.12 @ 10:28:30

Job Ticket #: 23190                      DST #: 3

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

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Great Plains Energy

Wasson Brothers Farms #3

36-4s-30w Decatur

DST # 3

LKC-G

2006.02.12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Energy  
429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**Wasson Brothers Farms #3**  
**36-4s-30w Decatur**  
Job Ticket: 23190      **DST#: 3**  
Test Start: 2006.02.12 @ 04:18:21

### GENERAL INFORMATION:

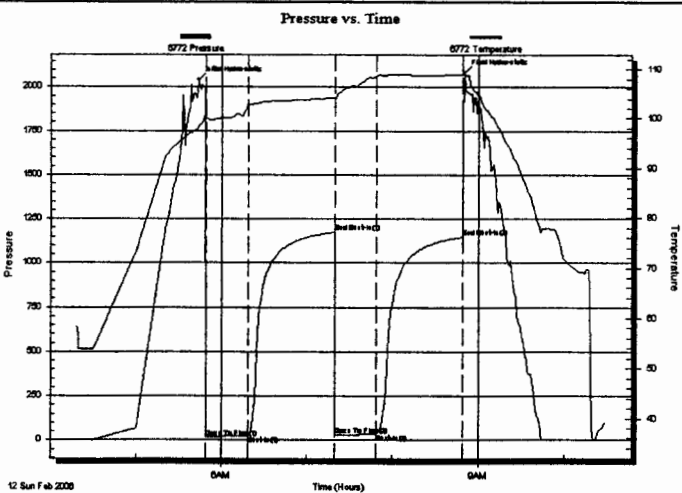
Formation: **LKC- G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:49:01  
 Time Test Ended: 10:28:30  
 Interval: **4003.00 ft (KB) To 4028.00 ft (KB) (TVD)**  
 Total Depth: **4028.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Brandon Turley  
 Unit No: 35  
 Reference Elevations: 2844.00 ft (KB)  
 2839.00 ft (CF)  
 KB to GR/CF: 5.00 ft

### Serial #: 6772

Inside

Press@RunDepth: 34.71 psig @ 4008.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.02.12      End Date: 2006.02.12      Last Calib.: 1899.12.30  
 Start Time: 04:18:21      End Time: 10:28:30      Time On Btm: 2006.02.12 @ 05:43:46  
 Time Off Btm: 2006.02.12 @ 08:50:15

**TEST COMMENT:** F: Surface blow that never built.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.03	98.33	Initial Hydro-static
6	15.41	99.80	Open To Flow (1)
36	25.43	102.92	Shut-In(1)
96	1174.01	104.14	End Shut-In(1)
97	27.47	103.82	Open To Flow (2)
125	34.71	108.47	Shut-In(2)
185	1146.71	108.88	End Shut-In(2)
187	2083.73	109.18	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%rn	0.07

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy  
429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**Wasson Brothers Farms #3**  
**36-4s-30w Decatur**  
Job Ticket: 23190      **DST#: 3**  
Test Start: 2006.02.12 @ 04:18:21

### Tool Information

Drill Pipe:	Length: 3882.00 ft	Diameter: 3.80 inches	Volume: 54.45 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.05 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4003.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 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
Stubb	1.00			3981.00	
Shut In Tool	5.00			3986.00	
Hydraulic tool	5.00			3991.00	
Jars	5.00			3996.00	
Safety Joint	2.00			3998.00	
Packer	5.00			4003.00	23.00      Bottom Of Top Packer
Packer - Shale	4.00			4007.00	
Stubb	1.00			4008.00	
Recorder	0.00	6772	Inside	4008.00	
Perforations	19.00			4027.00	
Recorder	0.00	7437	Outside	4027.00	
Bullnose	5.00			4032.00	29.00      Anchor Tool

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy  
429 N Linden  
Box 292  
Wahoo NE 68066  
ATTN: Richard Bell

**Wasson Brothers Farms #3**  
**36-4s-30w Decatur**  
Job Ticket: 23190      **DST#: 3**  
Test Start: 2006.02.12 @ 04:18:21

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
 Num Fluid Samples: 0      Num Gas Borrs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6772

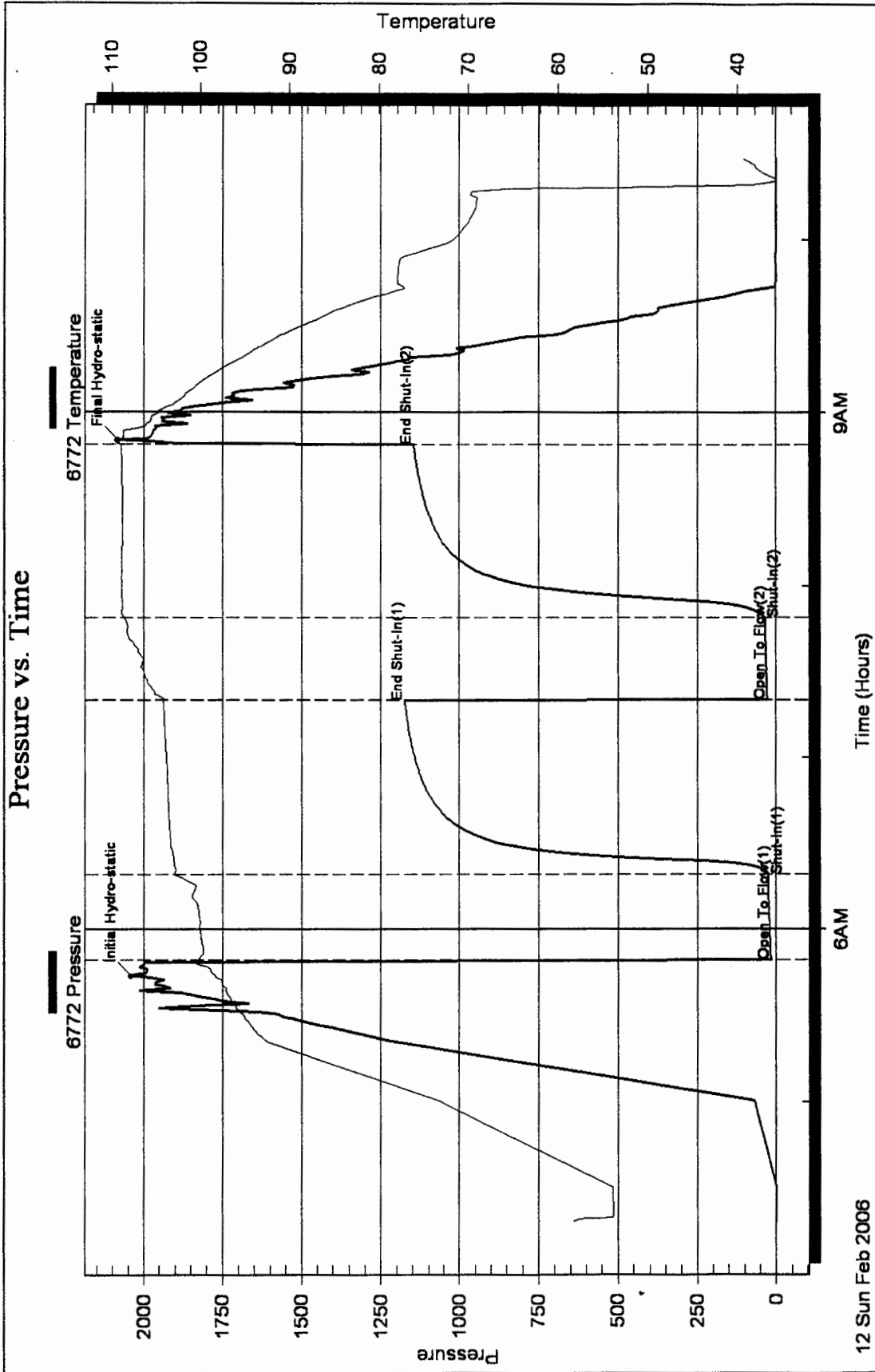
Inside

Great Plains Energy

36-4s-30w Decatur

DST Test Number: 3

### Pressure vs. Time



12 Sun Feb 2006

Time (Hours)

9AM

6AM

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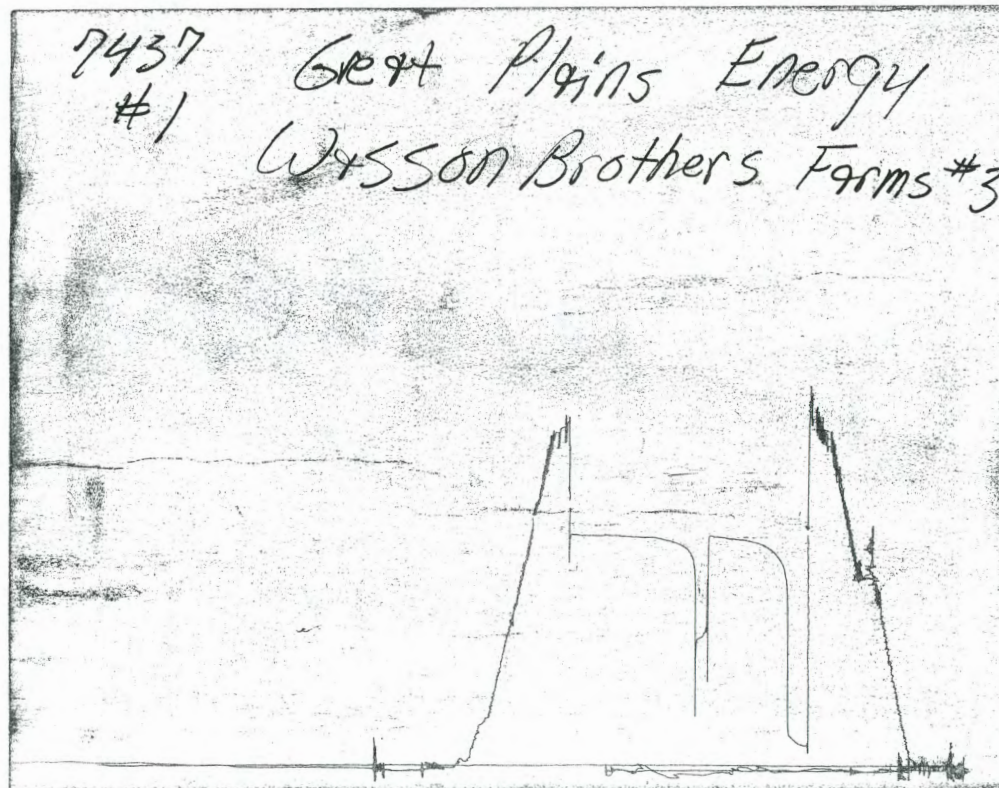
Robb Testing, Inc

Ref. No: 23190

Printed: 2006.02.20 @ 13:42:29 Page 5

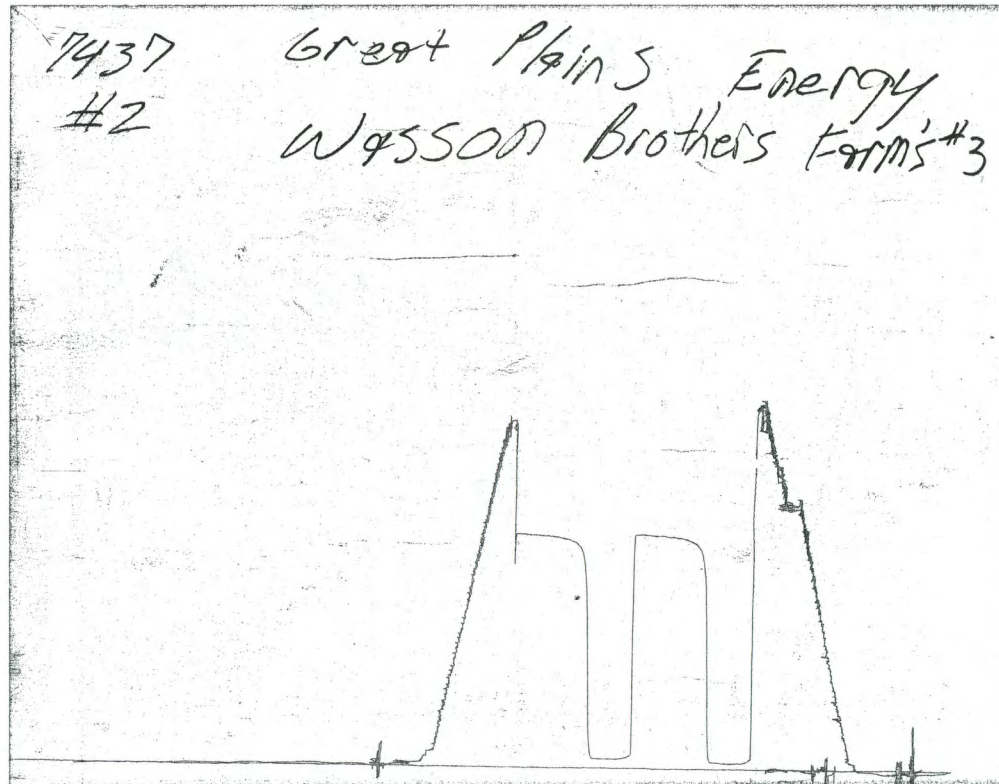
**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.



**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.



**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

