



## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**26 4 30W Decatur KS**

**Sauvage #4**

Start Date: 2006.08.31 @ 20:17:00

End Date: 2006.09.01 @ 03:39:45

Job Ticket #: 25598                      DST #: 1

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Energy Inc

PO Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**Sauvage #4**

**26 4 30W Decatur KS**

Job Ticket: 25598

DST#: 1

Test Start: 2006.08.31 @ 20:17:00

### GENERAL INFORMATION:

Formation: **Toronto**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 21:44:00

Time Test Ended: 03:39:45

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **3892.00 ft (KB) To 3931.00 ft (KB) (TVD)**

Total Depth: **3931.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2852.00 ft (KB)**

**2847.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8017**

**Inside**

Press@RunDepth: **123.77 psig @ 3894.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2006.08.31**

End Date: **2006.09.01**

Last Calib.: **2006.09.01**

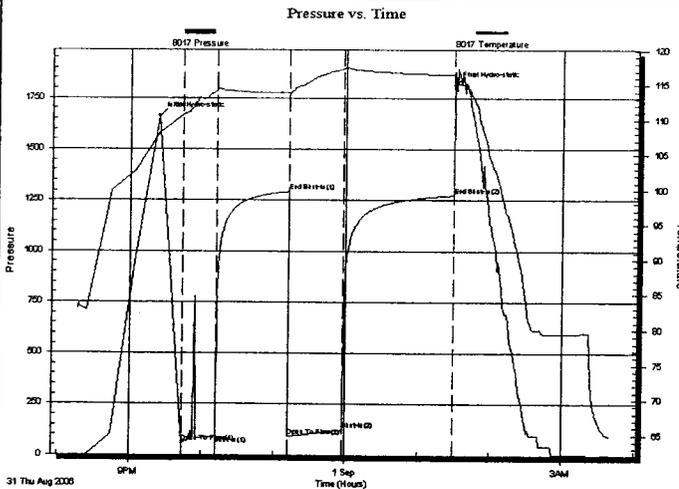
Start Time: **20:17:01**

End Time: **03:39:45**

Time On Btm: **2006.08.31 @ 21:24:00**

Time Off Btm: **2006.09.01 @ 01:30:15**

TEST COMMENT: IF Surface blow built to 4 "  
ISI No return  
FF Surface blow after 10 min. built to 2 1/4 "  
FSI No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.95	108.21	Initial Hydro-static
20	60.02	110.86	Open To Flow (1)
48	91.96	114.16	Shut-In (1)
108	1291.49	114.00	End Shut-In (1)
109	92.61	113.70	Open To Flow (2)
154	123.77	117.33	Shut-In (2)
246	1274.15	116.49	End Shut-In (2)
247	1811.94	116.90	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 10%M 90%W	0.63
102.00	MCW 50%M 50%W	1.43

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

ATTN: Richard Bell

Job Ticket: 25598

**DST#: 1**

Test Start: 2006.08.31 @ 20:17:00

**Tool Information**

Drill Pipe:	Length: 3747.00 ft	Diameter: 3.80 inches	Volume: 52.56 bbl	Tool Weight: 1800.00 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
		<b>Total Volume:</b>	<b>53.16 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3892.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Tool slid about 10 feet.

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3865.00	
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Jars	5.00			3880.00	
Safety Joint	3.00			3883.00	
Packer	5.00			3888.00	28.00 Bottom Of Top Packer
Packer	4.00			3892.00	
Stubb	1.00			3893.00	
Perforations	1.00			3894.00	
Recorder	0.00	8017	Inside	3894.00	
Change Over Sub	1.00			3895.00	
Drill Pipe	30.00			3925.00	
Change Over Sub	1.00			3926.00	
Recorder	0.00	13276	Inside	3926.00	
Bullnose	5.00			3931.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

ATTN: Richard Bell

Job Ticket: 25598      DST#: 1

Test Start: 2006.08.31 @ 20:17:00

### 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: 20000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCW 10%M 90%W	0.628
102.00	MCW 50%M 50%W	1.431

Total Length: 226.00 ft      Total Volume: 2.059 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

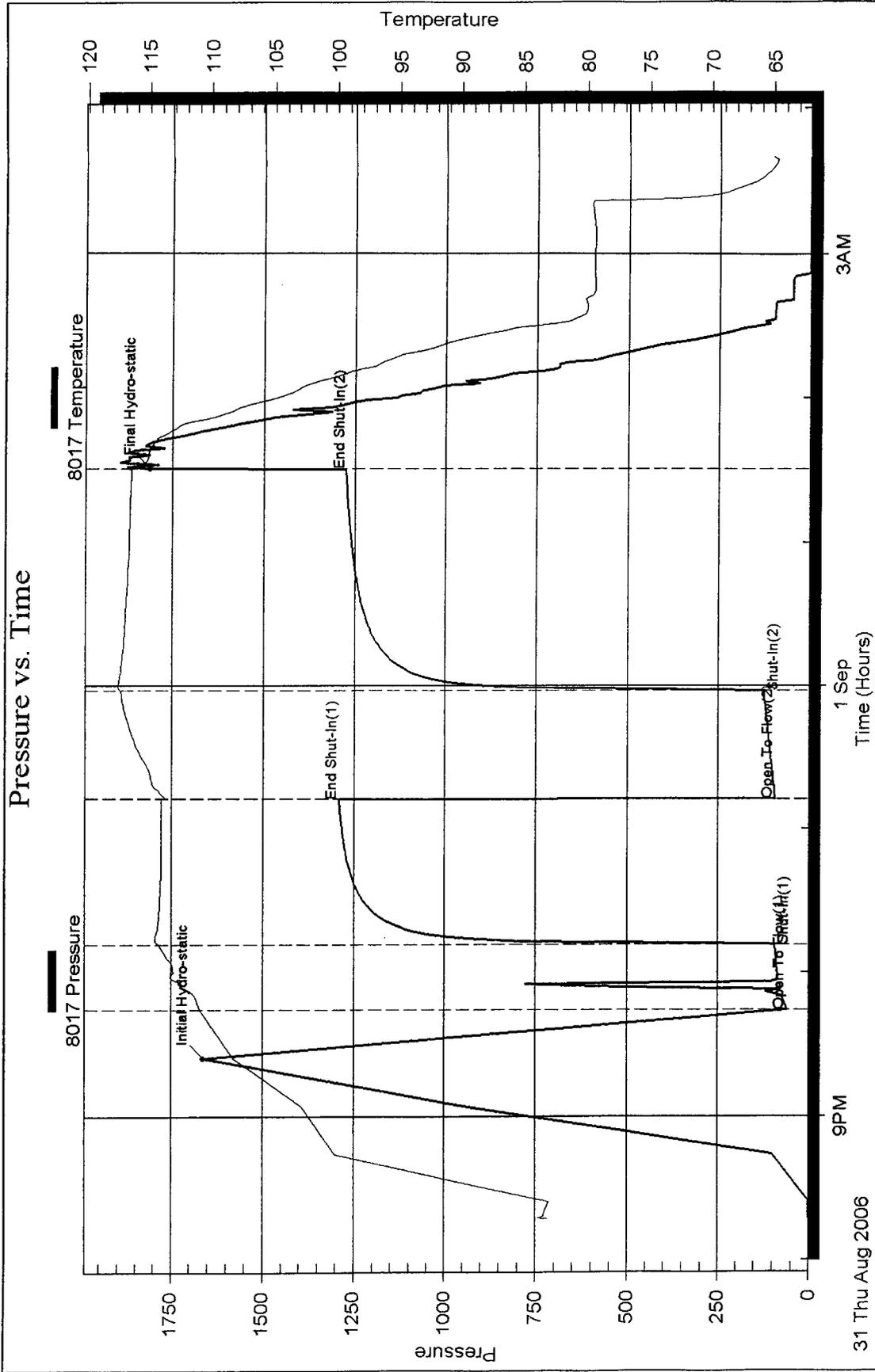
Serial #:

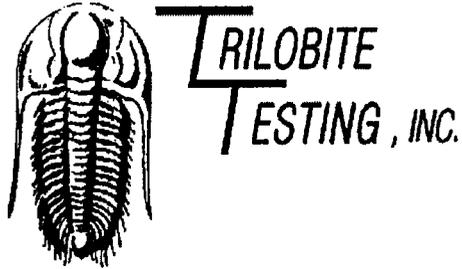
Laboratory Name:

Laboratory Location:

Recovery Comments: RW; .364 @ 67 degrees F = 20000 chlorides.

Spots of oil seen in all recovery.





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**26 4 30W Decatur KS**

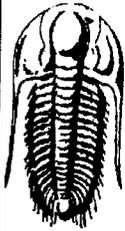
**Sauvage #4**

Start Date: 2006.09.01 @ 11:43:00

End Date: 2006.09.01 @ 17:53:15

Job Ticket #: 25600                      DST #: 2

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

ATTN: Richard Bell

Job Ticket: 25600

**DST#: 2**

Test Start: 2006.09.01 @ 11:43:00

## GENERAL INFORMATION:

Formation: **KC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:20:15

Time Test Ended: 17:53:15

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **3952.00 ft (KB) To 3975.00 ft (KB) (TVD)**

Reference Elevations: 2852.00 ft (KB)

Total Depth: 3975.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8017**

**Inside**

Press@RunDepth: 26.95 psig @ 3955.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.09.01 End Date: 2006.09.01

Last Calib.: 2006.09.01

Start Time: 11:43:01 End Time: 17:53:15

Time On Btm: 2006.09.01 @ 13:20:00

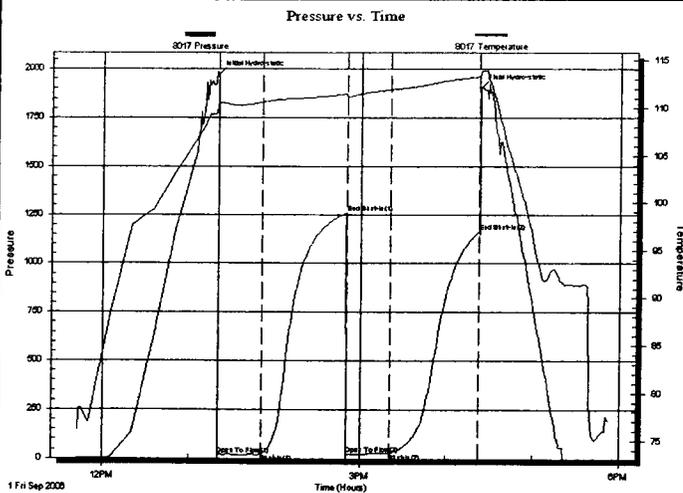
Time Off Btm: 2006.09.01 @ 16:23:15

**TEST COMMENT:** IF Surface blow built to 1/2"

ISI No return

FF No blow

FSI No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.33	110.68	Initial Hydro-static
1	19.84	110.33	Open To Flow (1)
31	21.45	110.65	Shut-In(1)
91	1258.08	111.51	End Shut-In(1)
91	25.76	111.06	Open To Flow (2)
121	26.95	111.93	Shut-In(2)
183	1163.00	113.29	End Shut-In(2)
184	1903.04	113.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 30%O 70%M	0.20

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

Job Ticket: 25600

**DST#: 2**

ATTN: Richard Bell

Test Start: 2006.09.01 @ 11:43:00

### Tool Information

Drill Pipe:	Length: 3808.00 ft	Diameter: 3.80 inches	Volume: 53.42 bbl	Tool Weight:	1800.00 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:	80000.00 lb
			<u>Total Volume: 54.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3952.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Jars	5.00			3940.00	
Safety Joint	3.00			3943.00	
Packer	5.00			3948.00	28.00 Bottom Of Top Packer
Packer	4.00			3952.00	
Stubb	1.00			3953.00	
Perforations	2.00			3955.00	
Recorder	0.00	8017	Inside	3955.00	
Perforations	15.00			3970.00	
Recorder	0.00	13276	Inside	3970.00	
Bullnose	5.00			3975.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

ATTN: Richard Bell

Job Ticket: 25600

**DST#: 2**

Test Start: 2006.09.01 @ 11:43:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 30%O 70%M	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

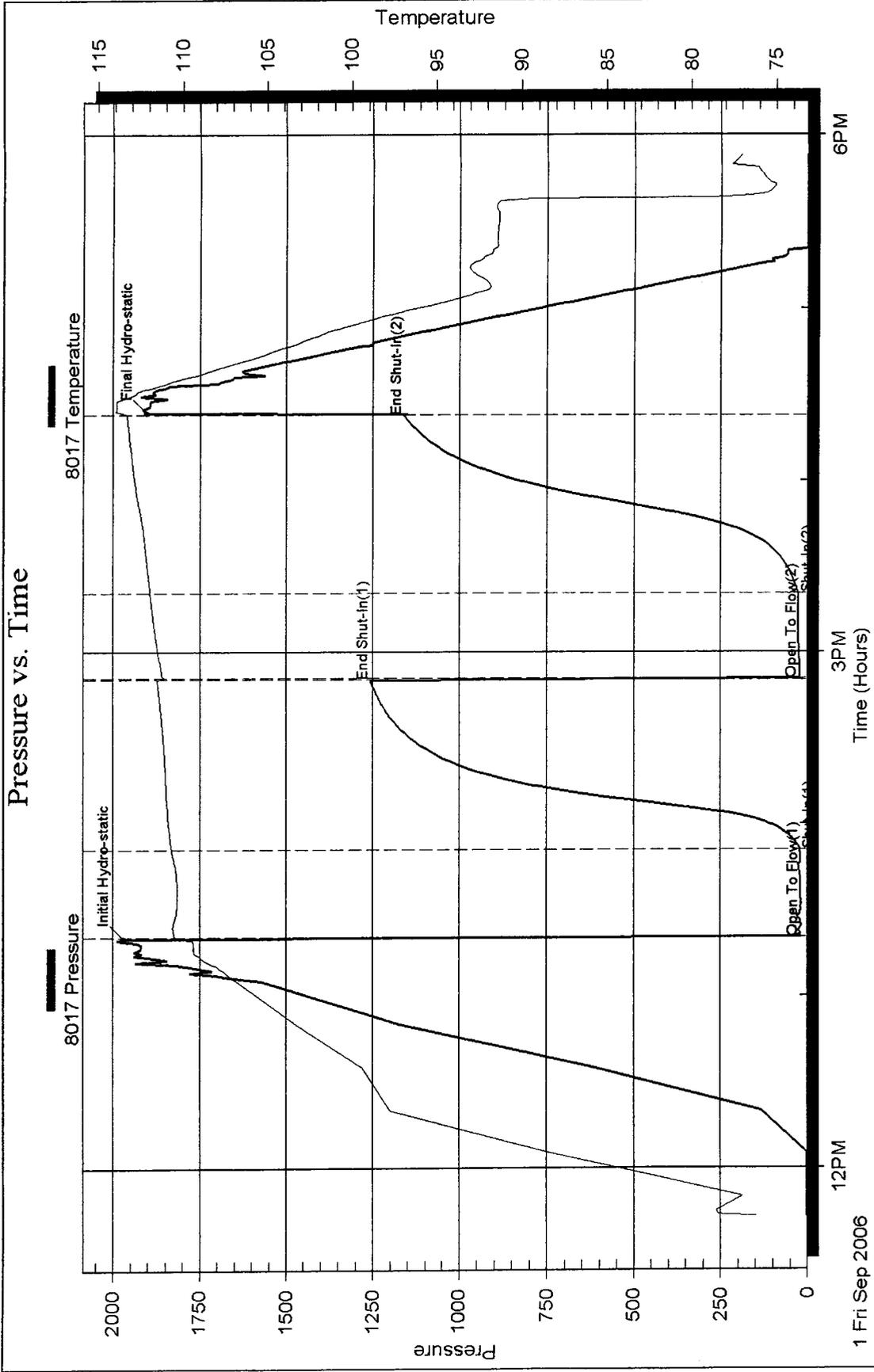
Num Gas Bombs: 0

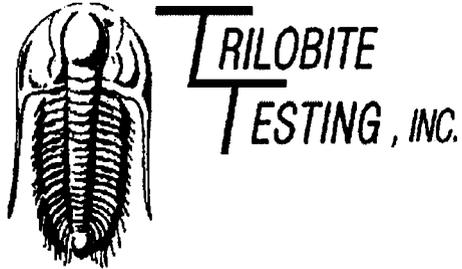
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API; 31 @ 80 degrees F = 29.





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**26 4 30W Decatur KS**

**Sauvage #4**

Start Date: 2006.09.02 @ 00:35:00

End Date: 2006.09.02 @ 08:15:30

Job Ticket #: 25601                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Great Plains Energy Inc

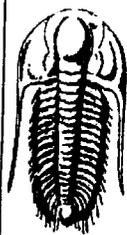
Sauvage #4

26 4 30W Decatur KS

DST # 3

LKC "F"

2006.09.02



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Energy Inc

PO Box 292  
Wahoo NE 68066

ATTN: Richard Bell

**Sauvage #4**

**26 4 30W Decatur KS**

Job Ticket: 25601

**DST#: 3**

Test Start: 2006.09.02 @ 00:35:00

### GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 02:20:15

Time Test Ended: 08:15:30

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **3997.00 ft (KB) To 4013.00 ft (KB) (TVD)**

Total Depth: **4013.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2852.00 ft (KB)**

**2847.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8017**

**Inside**

Press@RunDepth: **91.65 psig @ 4000.00 ft (KB)**

Start Date: **2006.09.02**

End Date:

**2006.09.02**

Start Time: **00:35:01**

End Time:

**08:15:30**

Capacity: **7000.00 psig**

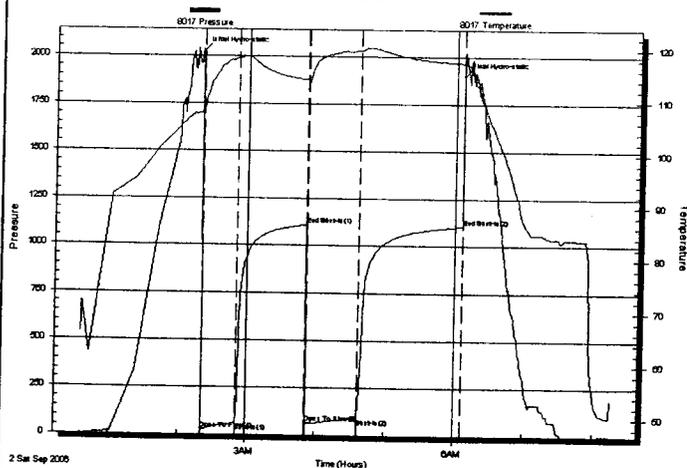
Last Calib.: **2006.09.02**

Time On Btm: **2006.09.02 @ 02:19:45**

Time Off Btm: **2006.09.02 @ 06:06:45**

**TEST COMMENT:** IF Surface blow to BOB @ 22 min.  
ISI Surface return built to 1/2".  
FF Surface blow to BOB @ 36 min.  
FSI Surface return built to 1"

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.38	108.32	Initial Hydro-static
1	22.57	108.05	Open To Flow (1)
31	58.80	118.22	Shut-In(1)
91	1107.51	114.21	End Shut-In(1)
92	65.29	113.63	Open To Flow (2)
137	91.65	119.77	Shut-In(2)
227	1101.06	117.45	End Shut-In(2)
227	1900.90	117.67	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
226.00	GO 10%G 90%O	2.06
62.00	GOCM 15%G 35%O 50%M	0.87

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

Job Ticket: 25601

**DST#:3**

ATTN: Richard Bell

Test Start: 2006.09.02 @ 00:35:00

### Tool Information

Drill Pipe:	Length: 3872.00 ft	Diameter: 3.80 inches	Volume: 54.31 bbl	Tool Weight: 1800.00 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: 70000.00 lb
		<b>Total Volume:</b>	<b>54.91 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3997.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 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			3970.00	
Shut In Tool	5.00			3975.00	
Hydraulic tool	5.00			3980.00	
Jars	5.00			3985.00	
Safety Joint	3.00			3988.00	
Packer	5.00			3993.00	28.00 Bottom Of Top Packer
Packer	4.00			3997.00	
Stubb	1.00			3998.00	
Perforations	2.00			4000.00	
Recorder	0.00	8017	Inside	4000.00	
Perforations	8.00			4008.00	
Recorder	0.00	13276	Inside	4008.00	
Bullnose	5.00			4013.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy Inc

**Sauvage #4**

PO Box 292  
Wahoo NE 68066

**26 4 30W Decatur KS**

ATTN: Richard Bell

Job Ticket: 25601

**DST#: 3**

Test Start: 2006.09.02 @ 00:35:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1700.00 ppm		
Filter Cake: 2.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
226.00	GO 10%G 90%O	2.059
62.00	GOCM 15%G 35%O 50%M	0.870

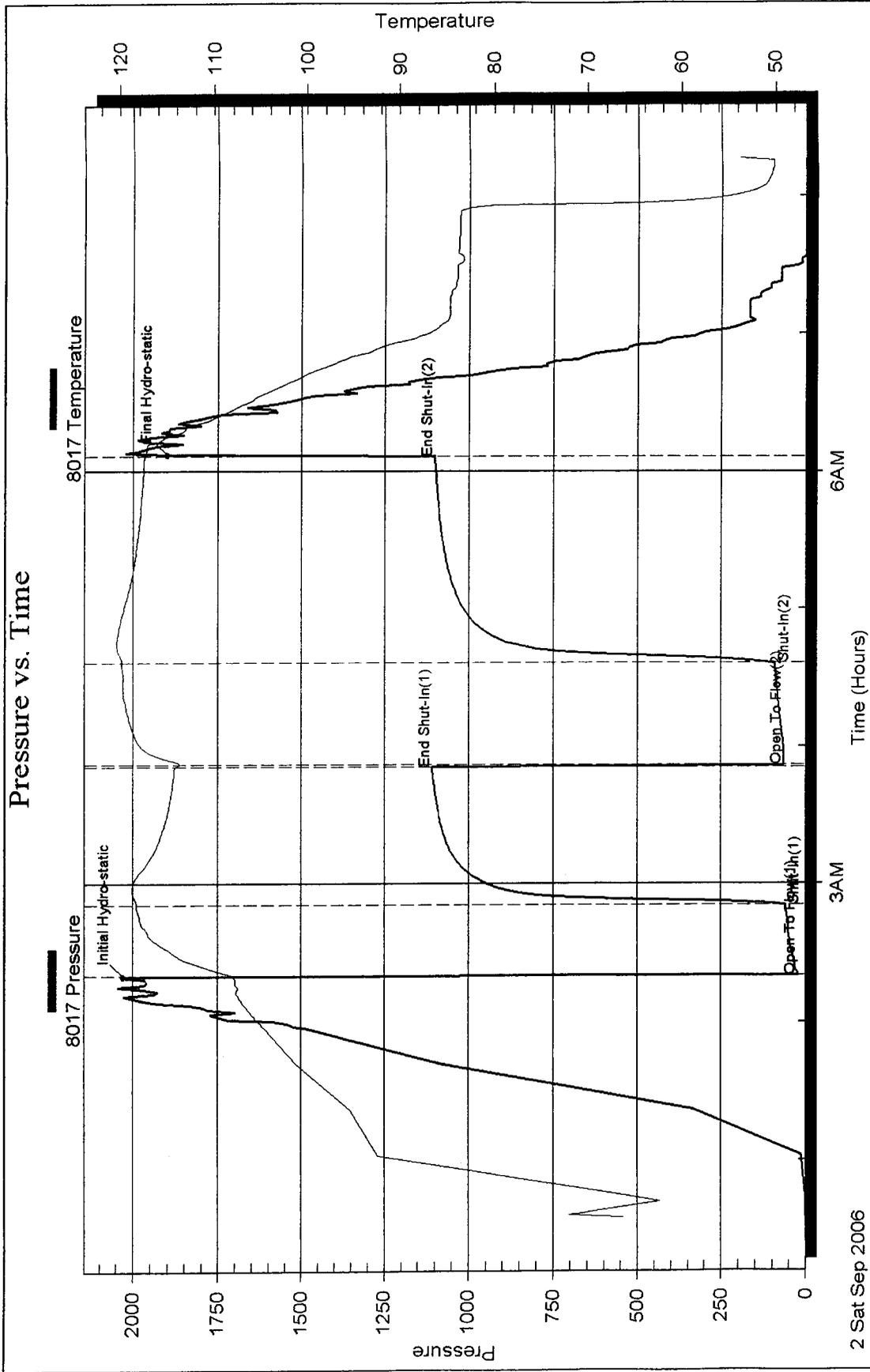
Total Length: 288.00 ft      Total Volume: 2.929 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: API; 29 @ 60 degrees F = 29  
186 Feet of gas in pipe.

# Pressure vs. Time

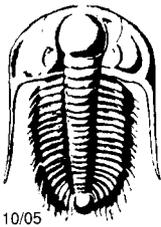


2 Sat Sep 2006

6AM

3AM

Time (Hours)



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

1186

25598

## Test Ticket

Well Name & No. Savage #4 Test No. 1 Date 8-31-06  
 Company Great Plains Energy, Inc. Zone Tested Toronto  
 Address POB 292 Wahoo, NE. 68066 Elevation 2852 KB 2847 GL  
 Co. Rep / Geo. Richard Bell Rig WW#4  
 Location: Sec. 26 Twp. 4s Rge. 30w Co. Decatur State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3892 to 3931 Initial Str Wt./Lbs. 51,000 Unseated Str Wt./Lbs. 52,000  
 Anchor Length 39 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 62,000  
 Top Packer Depth 3888 Tool Weight 1,800  
 Bottom Packer Depth 3892 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 3931 Wt. Pipe Run 0 Drill Collar Run 122  
 Mud Wt. 9.1 LCM 1 Vis. 56 WL 5.6 Drill Pipe Size 4 1/2 XH Ft. Run 3,747

Blow Description IF: Surface blow built to 4"  
ISI: No return  
FF: Surface blow after 10 min, built to 2 1/4"  
FSI: No return.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>226</u>	<u>—</u>	<u>122</u>	<u>226</u>
Rec. <u>102</u>	Feet of <u>MCW spots of oil</u>	%gas	%oil <u>50</u> %water <u>50</u> %mud
Rec. <u>124</u>	Feet of <u>MCW spots of oil</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. _____	Feet of _____	%gas	%oil _____ %water _____ %mud
BHT <u>116</u>	°F Gravity <u>—</u>	°API D @ <u>—</u>	°F Corrected Gravity <u>—</u> °API
RW <u>.364</u>	@ <u>67</u> °F	Chlorides <u>20,000</u> ppm Recovery <u>20,000</u>	Chlorides <u>1,400</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1,660</u>	PSI	<u>8017</u>	<u>X</u> <u>1,100<sup>00</sup></u>
(B) First Initial Flow Pressure	<u>60</u>	PSI	(depth) <u>3,894</u>	Jars <u>X</u> <u>250<sup>00</sup></u>
(C) First Final Flow Pressure	<u>92</u>	PSI	Recorder No. <u>13276</u>	Safety Jt. <u>X</u> <u>75<sup>00</sup></u>
(D) Initial Shut-In Pressure	<u>1,292</u>	PSI	(depth) <u>3,926</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	<u>93</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>124</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1,274</u>	PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1,895</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>X</u> <u>200<sup>00</sup></u>

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.

Approved By Richard Bell

Our Representative Chuck Smith

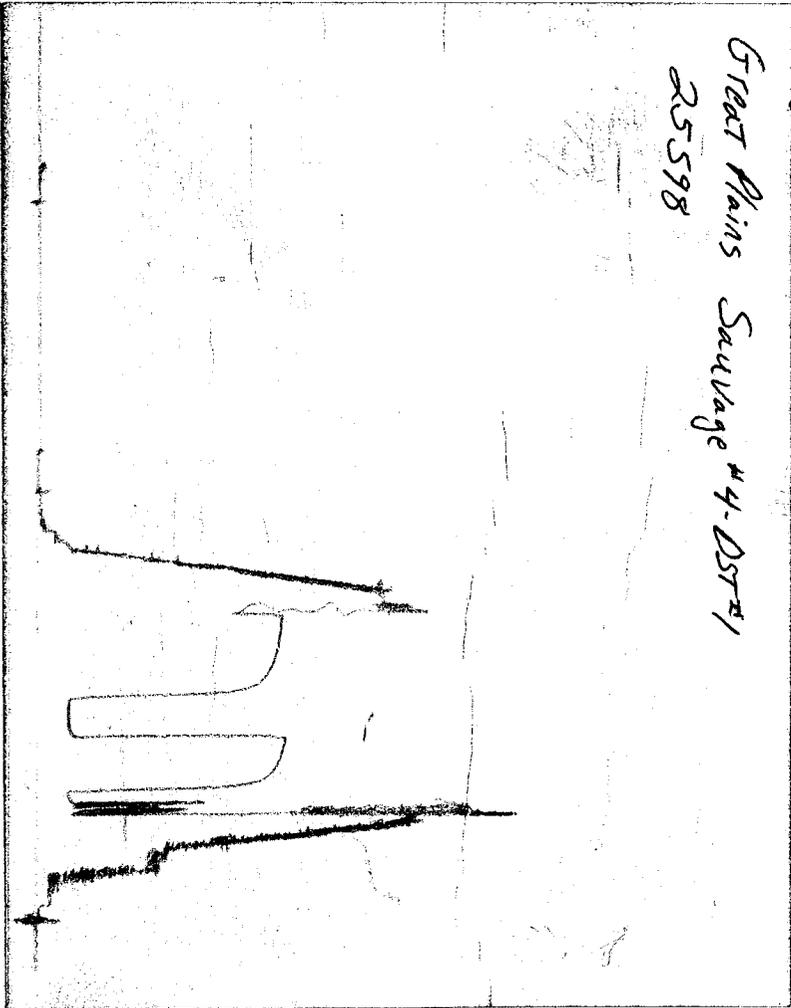
T-On Location 19:45 pm  
 T-Started 20:17 pm  
 T-Open 21:42 pm  
 T-Pulled 01:30 am  
 T-Off 03:40 am

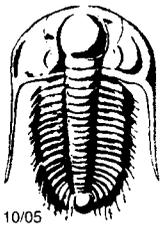
Test X 1,100<sup>00</sup>  
 Jars X 250<sup>00</sup>  
 Safety Jt. X 75<sup>00</sup>  
 Circ Sub X N/C  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Ext. Packer \_\_\_\_\_  
 Shale Packer X 200<sup>00</sup>  
 Ruined Packer \_\_\_\_\_  
 Mileage 190RT 237.50  
 Sub Total: 1862.50  
 Std. By \_\_\_\_\_  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: \_\_\_\_\_

**CHART PAGE**

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

*Great Plains Saurage #4-DST#1*  
*25598*





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9184 ✓ 25600

## Test Ticket

Well Name & No. Savage #4 Test No. 2 Date 9-1-06  
 Company Great Plains Energy, Inc. Zone Tested KC "B"  
 Address POB 292 Wahoo, NE 68066 Elevation 2852 KB 2847 GL  
 Co. Rep / Geo. Richard Bell Rig WW #4  
 Location: Sec. 24 Twp. 4s Rge. 30w Co. Decatur State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3952 to 3975 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 52,000  
 Anchor Length 23 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth 3948 Tool Weight 1,800  
 Bottom Packer Depth 3952 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 3975 Wt. Pipe Run 0 Drill Collar Run 122  
 Mud Wt. 9.2 LCM 1 Vis. 58 WL 6.0 Drill Pipe Size 4 1/2 XH Ft. Run 3,808

Blow Description IF: Surface blow to 1/2"  
ISI: No return  
FF: No blow  
FSI: No return

Recovery - Total Feet 40 GIP — Ft. in DC 40 Ft. in DP —  
 Rec. 40 Feet of OCM %gas 30 %oil \_\_\_\_\_ %water 70 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 113 °F Gravity 31 °API D @ 80 °F Corrected Gravity 29 °API  
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 1,700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1969</u> PSI	<u>8017</u>	<u>X 1100</u>
(B) First Initial Flow Pressure		<u>20</u> PSI	(depth) <u>3955</u>	Jars <u>X 250</u>
(C) First Final Flow Pressure		<u>21</u> PSI	Recorder No. <u>13276</u>	Safety Jt. <u>X 75</u>
(D) Initial Shut-In Pressure		<u>1,258</u> PSI	(depth) <u>3970</u>	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure		<u>26</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>27</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1,163</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1,921</u> PSI	Initial Shut-In <u>60</u>	Shale Packer <u>X 200.5</u>
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>36 45.00</u>
			<b>T-On Location</b> <u>11:35</u>	Sub Total: <u>1670</u>
			T-Started <u>11:43</u>	Std. By _____
			T-Open <u>13:20</u>	Acc. Chg: _____
			T-Pulled <u>16:23</u>	Other: _____
			T-Out <u>17:53</u>	Total: _____

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.

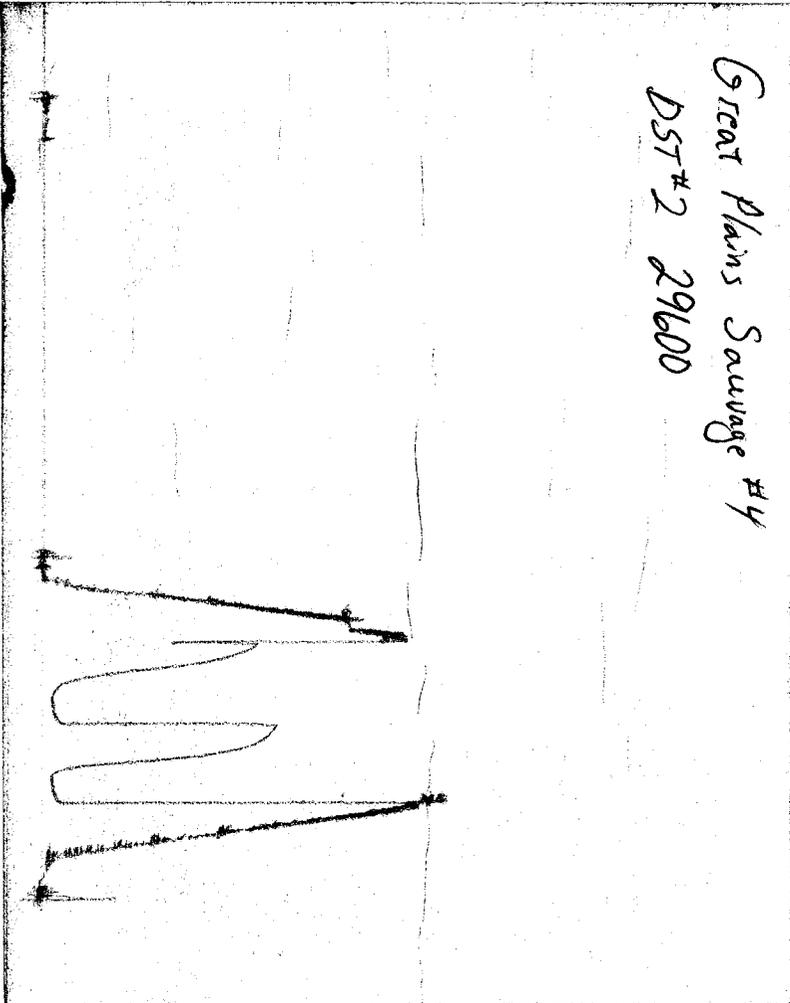
Approved By Richard Bell  
 Our Representative Chuck Smith

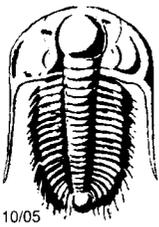
**CHART PAGE**

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

Great Plains Sausage #4

DST #2 29600





# TRILOBITE TESTING INC.

25601

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Sauvage #4 Test No. 3 Date 9-2-06  
 Company Great Plains Energy, Inc. Zone Tested LKC "F"  
 Address POB 292 Wahoo, NE 68066 Elevation 2852 KB 2847 GL  
 Co. Rep / Geo. Richard Bell Rig WW<sup>#4</sup>  
 Location: Sec. 26 Twp. 4s Rge. 30w Co. Decatur State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3997 to 4013 Initial Str Wt./Lbs. 52,000 Unseated Str Wt/Lbs. 53,000  
 Anchor Length 16 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3993 Tool Weight 1,800  
 Bottom Packer Depth 3997 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4013 Wt. Pipe Run 0 Drill Collar Run 122  
 Mud Wt. 9.2 LCM 1 Vis. 57 WL 6.0 Drill Pipe Size 4 1/2 XH Ft. Run 3,872

Blow Description IF: Surface blow to B.O.B. @ 22 min.  
ISI: Surface return built to 1/2".  
FF: Surface blow to B.O.B. @ 36 min.  
FSI: Surface return built to 1".

Recovery - Total Feet	GIP	186	Ft. in DC	Ft. in DP
Rec. <u>62</u>	Feet of <u>GOCM</u>	<u>15</u> %gas	<u>35</u> %oil	%water <u>50</u> %mud
Rec. <u>226</u>	Feet of <u>GO</u>	<u>10</u> %gas	<u>90</u> %oil	%water %mud
Rec. _____	Feet of _____	%gas	%oil	%water %mud
Rec. _____	Feet of _____	%gas	%oil	%water %mud
Rec. _____	Feet of _____	%gas	%oil	%water %mud
BHT <u>117</u>	°F Gravity <u>29</u>	°API D @ <u>60</u>	°F Corrected Gravity <u>29</u>	°API
RW <u>—</u>	@ <u>—</u>	°F Chlorides <u>—</u>	ppm Recovery <u>—</u>	Chlorides <u>1,700</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2,063</u> PSI	<u>8017</u>	<u>1200<sup>00</sup></u>	
(B) First Initial Flow Pressure	<u>23</u> PSI (depth)	<u>4000</u>	Jars <u>250<sup>00</sup></u>	
(C) First Final Flow Pressure	<u>59</u> PSI	<u>13276</u>	Safety Jt. <u>75<sup>00</sup></u>	
(D) Initial Shut-In Pressure	<u>1,108</u> PSI (depth)	<u>4008</u>	Circ Sub <u>X</u> <u>N/C</u>	
(E) Second Initial Flow Pressure	<u>65</u> PSI		Sampler _____	
(F) Second Final Flow Pressure	<u>92</u> PSI (depth)		Straddle _____	
(G) Final Shut-In Pressure	<u>1,101</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>2,024</u> PSI	Initial Shut-In <u>60</u>	Shale Packer <u>X</u> <u>200<sup>00</sup></u>	

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Approved By Richard Bell  
 Our Representative Chuck Smith

Final Flow	<u>45</u>	Ruined Packer	<u>1725</u>
Final Shut-In	<u>90</u>	Mileage	<u>36</u> <u>45</u>
<b>T-On Location</b>	<u>00:15 am</u>	Sub Total:	<u>1770</u>
T-Started	<u>00:35 am</u>	Std. By	<u>—</u>
T-Open	<u>02:20 am</u>	Acc. Chg:	_____
T-Pulled	<u>06:07 am</u>	Other:	_____
T-Out	<u>08:16 am</u>	Total:	_____

**CHART PAGE**

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

*Great Plains Saverage #4*

*DST #3*

*25601*

