

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL** Form ACO-1  
October 2008  
Form Must Be Typed

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 33629  
Name: Great Plains Energy, Inc.  
Address 1: PO Box 292  
Address 2: 429 N. Linden  
City: Wahoo State: NE Zip: 68066 + \_\_\_\_\_  
Contact Person: Dan Blankenau  
Phone: ( 402 ) 277-5336  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Richard Bell  
Purchaser: None  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

API No. 15 - 039-21100-00-00  
Spot Description: \_\_\_\_\_  
SE SE SW Sec. 35 Twp. 4S S. R. 30  East  West  
330 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Decatur  
Lease Name: Sauvage Family Well #: 3  
Field Name: Swede Hollow  
Producing Formation: None  
Elevation: Ground: 2875 Kelly Bushing: 2880  
Total Depth: 4240 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 253 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 cmf.

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SEP 21 2009  
KCC WICHITA

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  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
8/3/09 8/10/09 8/11/09  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

**Drilling Fluid Management Plan** P+A AH I NW2  
(Data must be collected from the Reserve Pit) 10-12-09  
Chloride content: 900 ppm Fluid volume: 1020 bbls  
Dewatering method used: Air dried then back filled.  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]  
Title: President Date: 9/18/09  
Subscribed and sworn to before me this 18<sup>th</sup> day of September, 2009.  
Notary Public: [Signature]  
Date Commission Expires: 1-21-2010

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

GENERAL NOTARY - State of Nebraska  
PATRICIA K. STYSKAL  
My Comm. Exp. Jan. 21, 2010

Operator Name: Great Plains Energy, Inc. Lease Name: Sauvage Family Well #: 3  
 Sec. 35 Twp. 4S S. R. 30  East  West County: Decatur

**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 copy of all Electric Wireline 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 <i>(Submit Copy)</i>  List All E. Logs Run: <b>DIL, CD/NL, Micro, Frac Finder</b> ✓	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>2644</td> <td>+236</td> </tr> <tr> <td>Base</td> <td>2677</td> <td>+203</td> </tr> <tr> <td>Topeka</td> <td>3747</td> <td>-866</td> </tr> <tr> <td>Heebner</td> <td>3914</td> <td>-1034</td> </tr> <tr> <td>Lansing</td> <td>3962</td> <td>-1082</td> </tr> <tr> <td>BKC</td> <td>4170</td> <td>-1290</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Anhydrite	2644	+236	Base	2677	+203	Topeka	3747	-866	Heebner	3914	-1034	Lansing	3962	-1082	BKC	4170	-1290
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																							
Name	Top	Datum																							
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Lansing	3962	-1082																							
BKC	4170	-1290																							

CASING RECORD <input 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	12 1/4"	8 5/8"	23#	253	Common	175	3%cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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REMIT TO  
 RR 1 BOX 90 D  
 HOXIE KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

376

DATE 8/3/09	SEC. 35	RANGE/TWP. 4-30	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Sangier Family				WELL # 3		
				COUNT OK	STATE OK	

CONTRACTOR	W W 4	OWNER	Grant Plain		
TYPE OF JOB	Surfau				
HOLE SIZE	12 1/4	T.D.	255'	CEMENT	
CASING SIZE	8 5/8	DEPTH		AMOUNT ORDERED	175
TUBING SIZE		DEPTH			
DRILL PIPE	4 1/2	DEPTH			
TOOL		DEPTH			
PRES. MAX		MINIMUM		COMMON	175 @ 14 2537 50
DISPLACEMENT	14 3/4	SHOE JOINT		POZMIX	@
CEMENT LEFT IN CSG.				GEL	4 @ 26 104
PERFS				CHLORIDE	6 @ 52 312
				ASC	@
EQUIPMENT					@
					@
PUMP TRUCK					@
#	Jorral				@
BULK TRUCK					@
#	Joy				@
BULK TRUCK					@
#					@
					@
				HANDLNG	185 @ 1 360
				MILEAGE	35 @ 16 580
				TOTAL	

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REMARKS	SERVICE	Surfau
Log Run @ 6:30 PM	DEPT OF JOB	@

REMIT TO  
 RR 1 BOX 90 D  
 HOXIE KS 67740

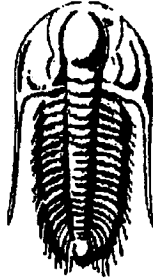
SCHIPPERS OIL FIELD SERVICE L.L.C.

379

DATE <u>8/11/07</u> SEC. <u>35</u>	RANGE/TWP. <u>4 30</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Savage</u>		WELL # <u>3</u>		COUNTY <u>KS</u>	STATE <u>KS</u>

CONTRACTOR <u>WW4</u>	OWNER <u>Great Plains</u>				
TYPE OF JOB					
HOLE SIZE <u>7 7/8</u>	T.D. <u>4240</u>	CEMENT			
CASING SIZE	DEPTH	AMOUNT ORDERED	<u>20.5</u>		
TUBING SIZE	DEPTH				
DRILL PIPE <u>4 1/2</u>	DEPTH	<u>60/40/4% seal</u>			
TOOL	DEPTH				
PRES. MAX	MINIMUM	COMMON	<u>123</u>	@ <u>14.50</u>	<u>1783.50</u>
DISPLACEMENT	SHOE JOINT	POZMIX	<u>82</u>	@ <u>8.00</u>	<u>656.00</u>
CEMENT LEFT IN CSG.		GEL	<u>7</u>	@ <u>26</u>	<u>182.00</u>
PERFS		CHLORIDE		@	
		ASC		@	
EQUIPMENT				@	
				@	
PUMP TRUCK				@	
# <u>Jay</u>		<u>Flo-seal</u>	<u>51.25</u>	@ <u>225</u>	<u>115.31</u>
BULK TRUCK				@	
# <u>Dusty</u>				@	
BULK TRUCK				@	
#				@	
				@	
		HANDLING	<u>212</u>	@ <u>1.95</u>	<u>413.40</u>
		MILEAGE	<u>35</u>	@ <u>19.08</u>	<u>667.80</u>
				TOTAL	

REMARKS	SERVICE <u>Rotary Plus</u>		
<u>1st 2650 25 sk</u>	DEPT OF JOB	@	
<u>2nd 1975 100 sk</u>	PUMP TRUCK CHARGE	@	



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc**

PO Box 292  
Wahoo, NE 68066-0292

ATTN: Richard Bell

### 35 4s 30w Decatur KS

#### Sauvage Family #3

Start Date: 2009.08.07 @ 05:38:00

End Date: 2009.08.07 @ 14:33:00

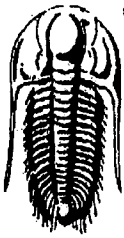
Job Ticket #: 34511          DST #: 1

RECEIVED  
SEP 21 2009  
KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 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 68066-0292

ATTN: Richard Bell

**Sauvage Family #3**

**35 4s 30w Decatur KS**

Job Ticket: 34511

DST#: 1

Test Start: 2009.08.07 @ 05:38:00

## GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 09:52:30

Time Test Ended: 14:33:00

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Interval: **3913.00 ft (KB) To 3953.00 ft (KB) (TVD)**

Reference Elevations: **2880.00 ft (KB)**

Total Depth: **3953.00 ft (KB) (TVD)**

**2875.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

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

Serial #: **8366**

**Inside**

Press@RunDepth: **36.47 psig @ 3914.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2009.08.07**

End Date:

**2009.08.07**

Last Calib.: **2009.08.07**

Start Time: **05:38:05**

End Time:

**14:33:00**

Time On Btm: **2009.08.07 @ 09:51:00**

Time Off Btm: **2009.08.07 @ 12:55:30**

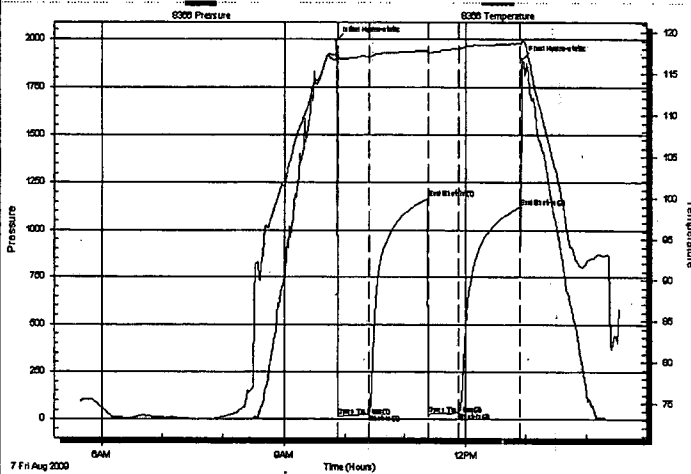
TEST COMMENT: IF: Blow built to and blew @ 1/2" till close

IS: Bled off, No blow back

FF: No blow

FSI: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.44	117.33	Initial Hydro-static
2	16.97	116.94	Open To Flow (1)
33	27.11	117.07	Shut-In(1)
92	1167.14	117.79	End Shut-In(1)
93	29.29	117.41	Open To Flow (2)
123	36.47	118.03	Shut-In(2)
183	1122.18	118.67	End Shut-In(2)
185	1893.18	118.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud 100%	0.03

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34511

**DST#: 1**

ATTN: Richard Bell

Test Start: 2009.08.07 @ 05:38:00

## Tool Information

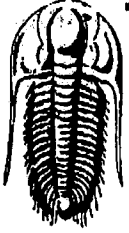
Drill Pipe:	Length: 3784.00 ft	Diameter: 3.80 inches	Volume: 53.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3913.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3891.00	
HYD S.I. Tool	5.00			3896.00	
Jars	5.00			3901.00	
Safety Joint	2.00			3903.00	
Packer	5.00			3908.00	27.00 Bottom Of Top Packer
Packer	5.00			3913.00	
Shale Packer	0.00			3913.00	
Stubb	1.00			3914.00	
Recorder	0.00	8366	Inside	3914.00	
Recorder	0.00	8320	Inside	3914.00	
Perforations	36.00			3950.00	
Bullnose	3.00			3953.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34511

**DST#: 1**

ATTN: Richard Bell

Test Start: 2009.08.07 @ 05:38:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 6.36 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1000.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig  
Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Mud 100%	0.030

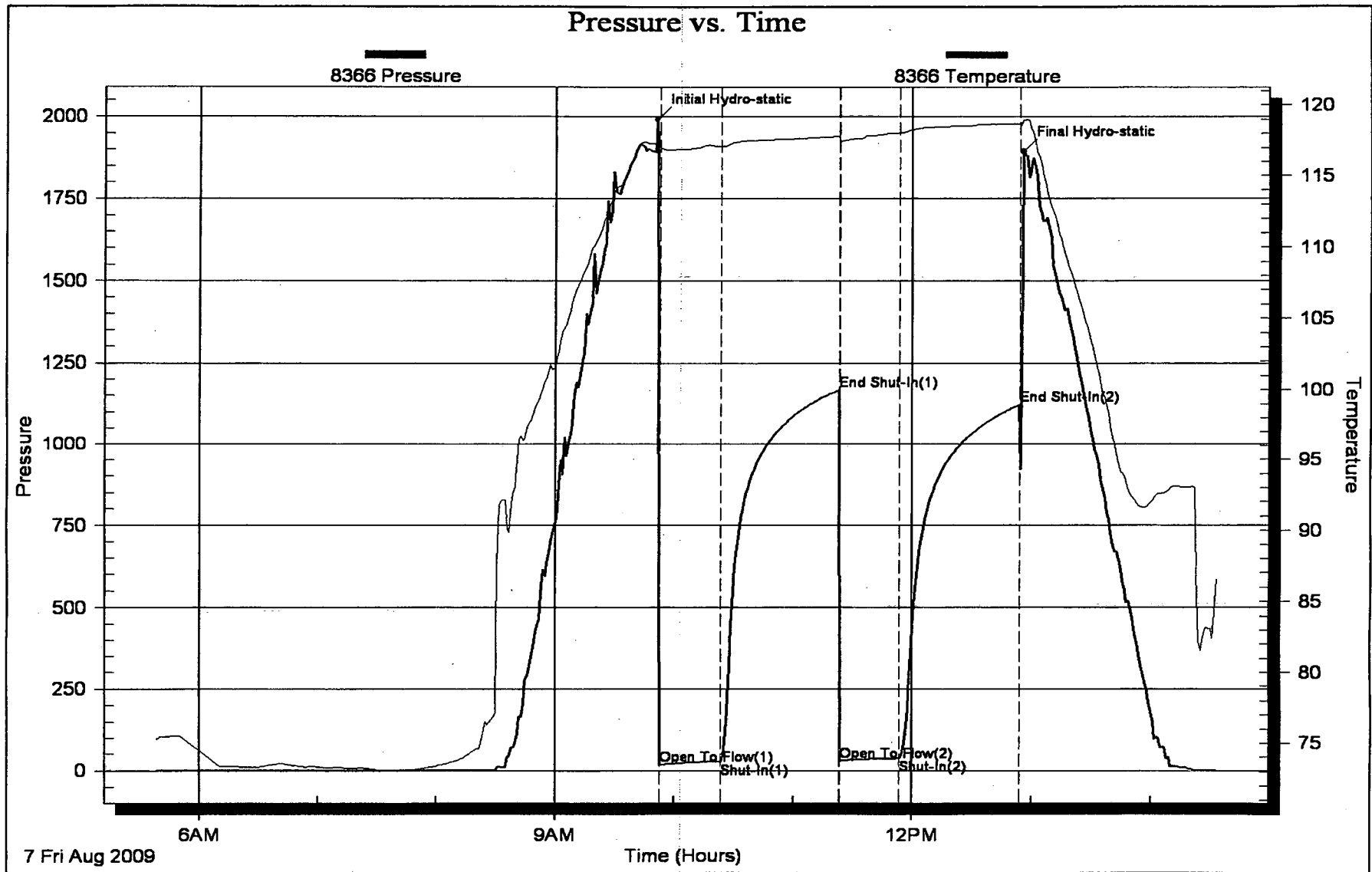
Total Length: 6.00 ft      Total Volume: 0.030 bbl

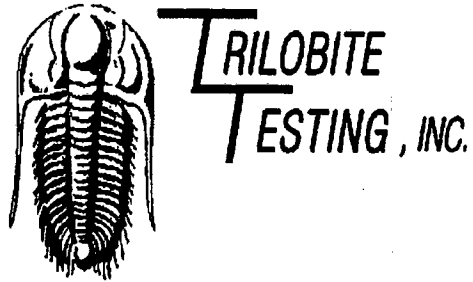
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc**

PO Box 292  
Wahoo, NE 68066-0292

ATTN: Richard Bell

### 35 4s 30w Decatur KS

#### Sauvage Family #3

Start Date: 2009.08.08 @ 02:41:00

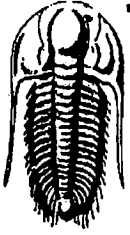
End Date: 2009.08.08 @ 10:02:00

Job Ticket #: 34512          DST #: 2

Trilobite Testing, Inc

PO Box 1733 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 68066-0292

ATTN: Richard Bell

**Sauvage Family #3**

**35 4s 30w Decatur KS**

Job Ticket: 34512

DST#: 2

Test Start: 2009.08.08 @ 02:41:00

## GENERAL INFORMATION:

Formation: **LKC "F - G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:36:00

Time Test Ended: 10:02:00

Interval: **4012.00 ft (KB) To 4046.00 ft (KB) (TVD)**

Total Depth: 4046.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Reference Elevations: 2880.00 ft (KB)

2875.00 ft (CF)

KB to GRVCF: 5.00 ft

**Serial #: 8366**

Inside

Press@RunDepth: 25.68 psig @ 4013.00 ft (KB)

Start Date: 2009.08.08

End Date: 2009.08.08

Start Time: 02:41:05

End Time: 10:01:59

Capacity: 7000.00 psig

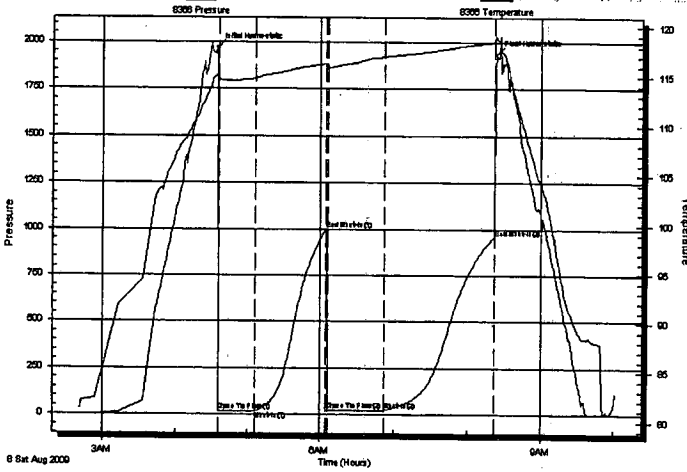
Last Calib.: 2009.08.08

Time On Btm: 2009.08.08 @ 04:35:00

Time Off Btm: 2009.08.08 @ 08:23:00

**TEST COMMENT:** IF: Blow built to 1/2" in 10 min. died back to 1/4" by close  
IS: Bled off, No blow back  
FF: No blow  
FSI: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

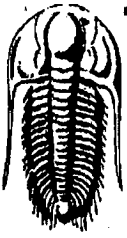
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.49	115.28	Initial Hydro-static
1	16.99	114.73	Open To Flow (1)
32	19.25	114.77	Shut-In(1)
90	997.22	116.28	End Shut-In(1)
91	21.87	115.90	Open To Flow (2)
138	25.68	116.98	Shut-In(2)
227	956.69	118.45	End Shut-In(2)
228	1935.00	118.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	OCM 73% m, 27% o	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34512      **DST#: 2**

ATTN: Richard Bell

Test Start: 2009.08.08 @ 02:41:00

**Tool Information**

Drill Pipe:	Length: 3869.00 ft	Diameter: 3.80 inches	Volume: 54.27 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
		<b>Total Volume:</b>	<b>54.88 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4012.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3990.00	
HYD S.I. Tool	5.00			3995.00	
Jars	5.00			4000.00	
Safety Joint	2.00			4002.00	
Packer	5.00			4007.00	27.00      Bottom Of Top Packer
Packer	5.00			4012.00	
Shale Packer	0.00			4012.00	
Stubb	1.00			4013.00	
Recorder	0.00	8366	Inside	4013.00	
Recorder	0.00	8320	Inside	4013.00	
Perforations	30.00			4043.00	
Bullnose	3.00			4046.00	34.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34512      **DST#: 2**

ATTN: Richard Bell

Test Start: 2009.08.08 @ 02:41:00

**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: 50.00 sec/qt	ft		
Water Loss: 6.76 in <sup>3</sup>	Cushion Volume:		
Resistivity: ohm.m	bbl		
Salinity: 1400.00 ppm	Gas Cushion Type:		
Filter Cake: 2.00 inches	Gas Cushion Pressure:	psig	

**Recovery Information**

Recovery Table

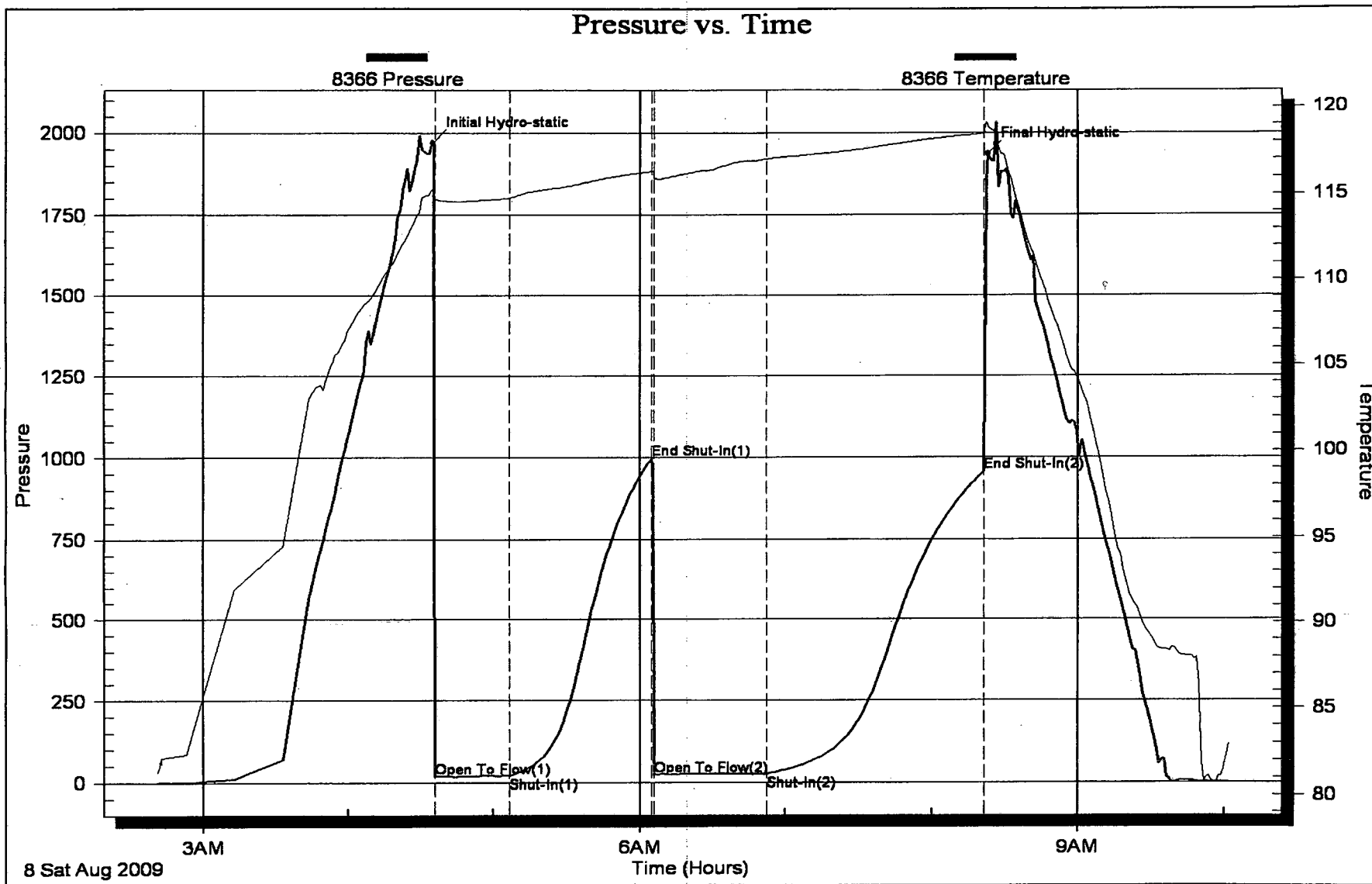
Length ft	Description	Volume bbl
8.00	OCM 73% <sub>m</sub> , 27% <sub>o</sub>	0.039

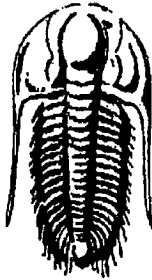
Total Length: 8.00 ft      Total Volume: 0.039 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc**

PO Box 292  
Wahoo, NE 68066-0292

ATTN: Richard Bell

**35 4s 30w Decatur KS**

**Sauvage Family #3**

Start Date: 2009.08.08 @ 17:15:00

End Date: 2009.08.08 @ 22:31:00

Job Ticket #: 34513                      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

Great Plains Energy, Inc  
 PO Box 292  
 Wahoo, NE 68066-0292  
 ATTN: Richard Bell

**Sauvage Family #3**  
**35 4s 30w Decatur KS**  
 Job Ticket: 34513 **DST#: 3**  
 Test Start: 2009.08.08 @ 17:15:00

### GENERAL INFORMATION:

Formation: **LKC "G2 - H"**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 18:51:30  
 Time Test Ended: 22:31:00

Test Type: **Conventional Bottom Hole**  
 Tester: **James Winder**  
 Unit No: **46**

Interval: **4050.00 ft (KB) To 4088.00 ft (KB) (TVD)**  
 Total Depth: **4088.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2880.00 ft (KB)**  
**2875.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

### Serial #: 8366

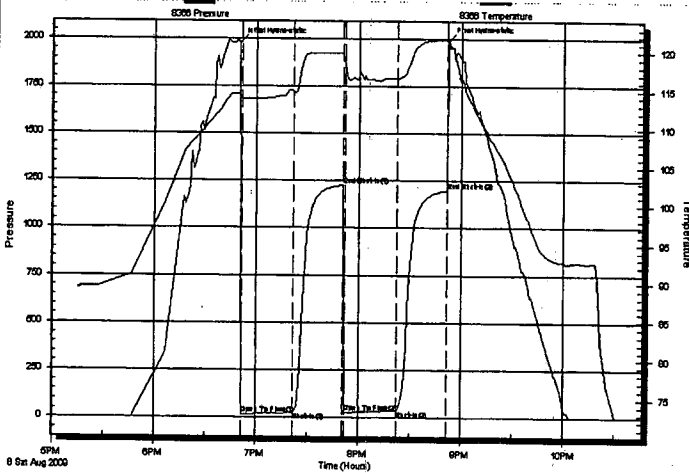
Inside

Press@RunDepth: **37.93 psig @ 4051.00 ft (KB)**  
 Start Date: **2009.08.08** End Date: **2009.08.08**  
 Start Time: **17:15:05** End Time: **22:30:59**

Capacity: **7000.00 psig**  
 Last Calib.: **2009.08.08**  
 Time On Btrm: **2009.08.08 @ 18:50:30**  
 Time Off Btrm: **2009.08.08 @ 20:52:30**

TEST COMMENT: IF: Blow built to 1/3" in 14 min., blew at 1/3" till close  
 IS: Bled off, No blowback  
 FF: No blow  
 FSI: No blow back

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.37	114.55	Initial Hydro-static
1	16.88	113.77	Open To Flow (1)
31	26.77	114.85	Shut-In(1)
60	1226.09	119.87	End Shut-In(1)
61	29.24	118.40	Open To Flow (2)
92	37.93	116.58	Shut-In(2)
121	1197.54	121.70	End Shut-In(2)
122	1989.54	120.63	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	WCM w/trace oil 70%w, 30%w	0.15
0.00	RW = .263 ohms @ 73 deg F	0.00
0.00	Chlorides = 25,000 ppm	0.00

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34513

**DST#: 3**

ATTN: Richard Bell

Test Start: 2009.08.08 @ 17:15:00

**Tool Information**

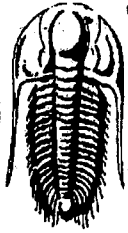
Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
		<u>Total Volume:</u>	<u>55.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4050.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4028.00	
HYD S.I. Tool	5.00			4033.00	
Jars	5.00			4038.00	
Safety Joint	2.00			4040.00	
Packer	5.00			4045.00	27.00 Bottom Of Top Packer
Packer	5.00			4050.00	
Shale Packer	0.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8366	inside	4051.00	
Recorder	0.00	8320	inside	4051.00	
Perforations	34.00			4085.00	
Bullnose	3.00			4088.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34513

**DST#: 3**

ATTN: Richard Bell

Test Start: 2009.08.08 @ 17:15:00

## 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:

25000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	WCM w/trace oil 70% <sub>m</sub> , 30% <sub>w</sub>	0.148
0.00	RW = .263 ohms @ 73 deg F	0.000
0.00	Chlorides = 25,000 ppm	0.000

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

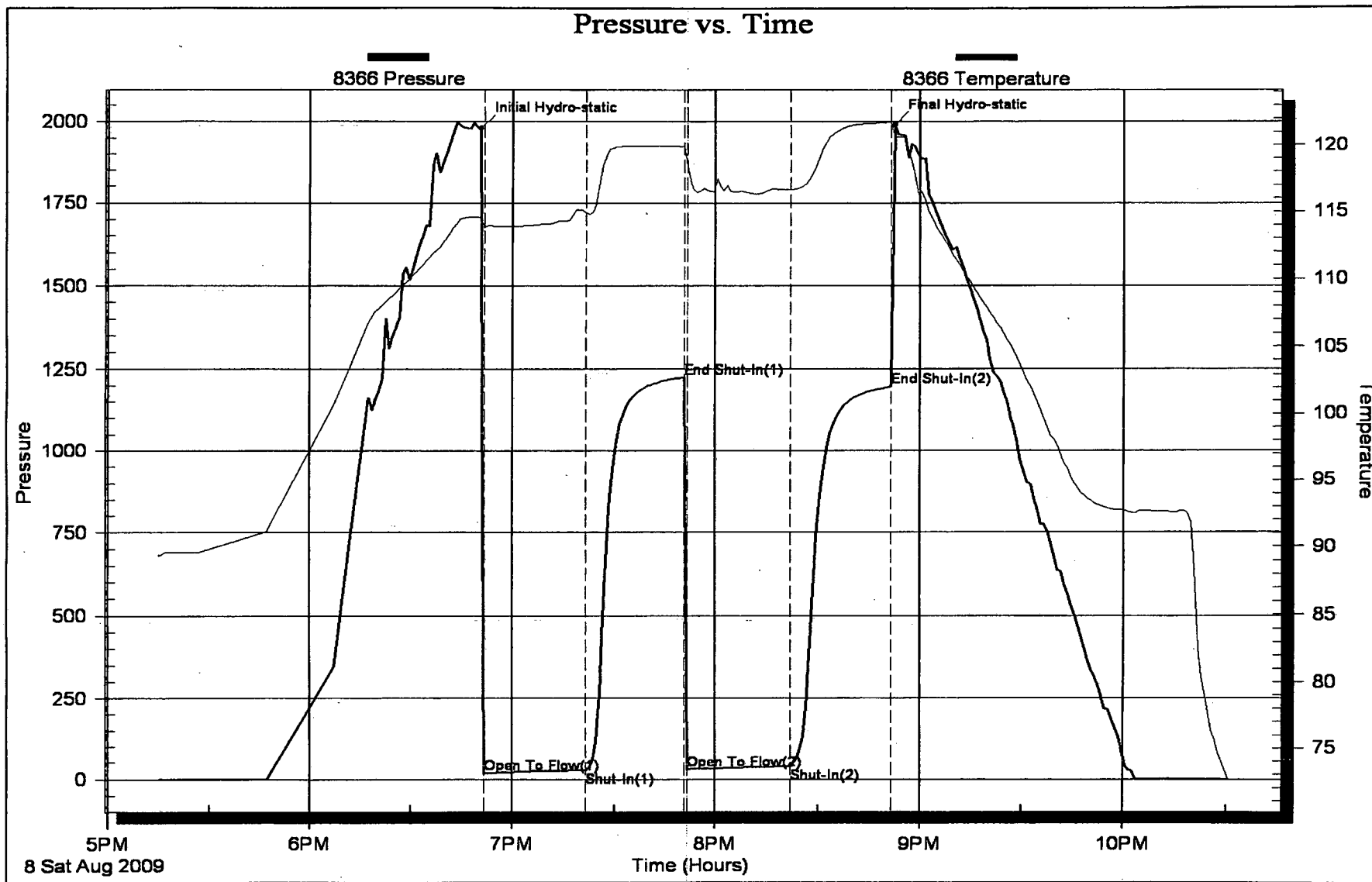
Num Gas Bombs: 0

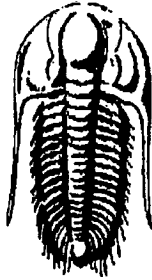
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc**

PO Box 292  
Wahoo, NE 68066-0292

ATTN: Richard Bell

**35 4s 30w Decatur KS**

**Sauvage Family #3**

Start Date: 2009.08.09 @ 05:10:00

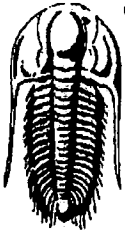
End Date: 2009.08.09 @ 12:42:00

Job Ticket #: 34514                      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

Great Plains Energy, Inc  
PO Box 292  
Wahoo, NE 68066-0292  
ATTN: Richard Bell

**Sauvage Family #3**  
**35 4s 30w Decatur KS**  
Job Ticket: 34514      DST#: 4  
Test Start: 2009.08.09 @ 05:10:00

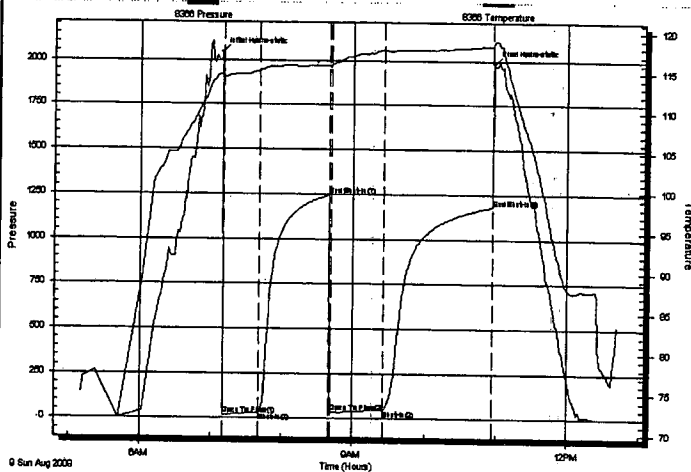
## GENERAL INFORMATION:

Formation: **LKC "J"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **07:10:00**  
Time Test Ended: **12:42:00**  
Interval: **4083.00 ft (KB) To 4118.00 ft (KB) (TVD)**  
Total Depth: **4118.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **James Winder**  
Unit No: **46**  
Reference Elevations: **2880.00 ft (KB)**  
**2875.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8366**      **Inside**  
Press@RunDepth: **45.65 psig @ 4084.00 ft (KB)**  
Start Date: **2009.08.09**      End Date: **2009.08.09**      Capacity: **7000.00 psig**  
Start Time: **05:10:05**      End Time: **12:41:59**      Last Calib.: **2009.08.09**  
Time On Btm: **2009.08.09 @ 07:09:00**  
Time Off Btm: **2009.08.09 @ 10:57:30**

**TEST COMMENT:** IF: Blow built to 1 1/4"  
IS: Bled off, No blow back  
FF: No blow  
FSI: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

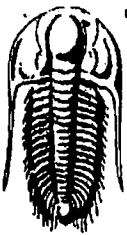
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.28	114.80	Initial Hydro-static
1	18.10	114.33	Open To Flow (1)
32	31.15	115.20	Shut-In (1)
91	1244.87	115.87	End Shut-In (1)
92	33.27	115.86	Open To Flow (2)
136	45.65	117.76	Shut-In (2)
228	1180.38	118.33	End Shut-In (2)
229	1981.83	118.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil 99%o, 1%m	0.00
60.00	OCM 85%m, 13%o, 2%g	0.30
0.00	Gravity = 37.4 api @ 86 deg F	0.00
0.00	Corrected Gravity = 34.8 api	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34514      **DST#: 4**

ATTN: Richard Bell

Test Start: 2009.08.09 @ 05:10:00

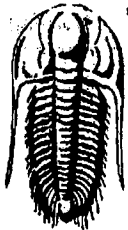
## Tool Information

Drill Pipe:	Length: 3964.00 ft	Diameter: 3.80 inches	Volume: 55.60 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4083.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4061.00	
HYD S.I. Tool	5.00			4066.00	
Jars	5.00			4071.00	
Safety Joint	2.00			4073.00	
Packer	5.00			4078.00	27.00 Bottom Of Top Packer
Packer	5.00			4083.00	
Shale Packer	0.00			4083.00	
Stubb	1.00			4084.00	
Recorder	0.00	8366	Inside	4084.00	
Recorder	0.00	8320	Inside	4084.00	
Perforations	31.00			4115.00	
Bullnose	3.00			4118.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34514      **DST#: 4**

ATTN: Richard Bell

Test Start: 2009.08.09 @ 05:10:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 6.37 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1400.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft      Oil API: deg API  
Cushion Volume: bbl      Water Salinity: ppm  
Gas Cushion Type:  
Gas Cushion Pressure: psig

## Recovery Information

Recovery Table

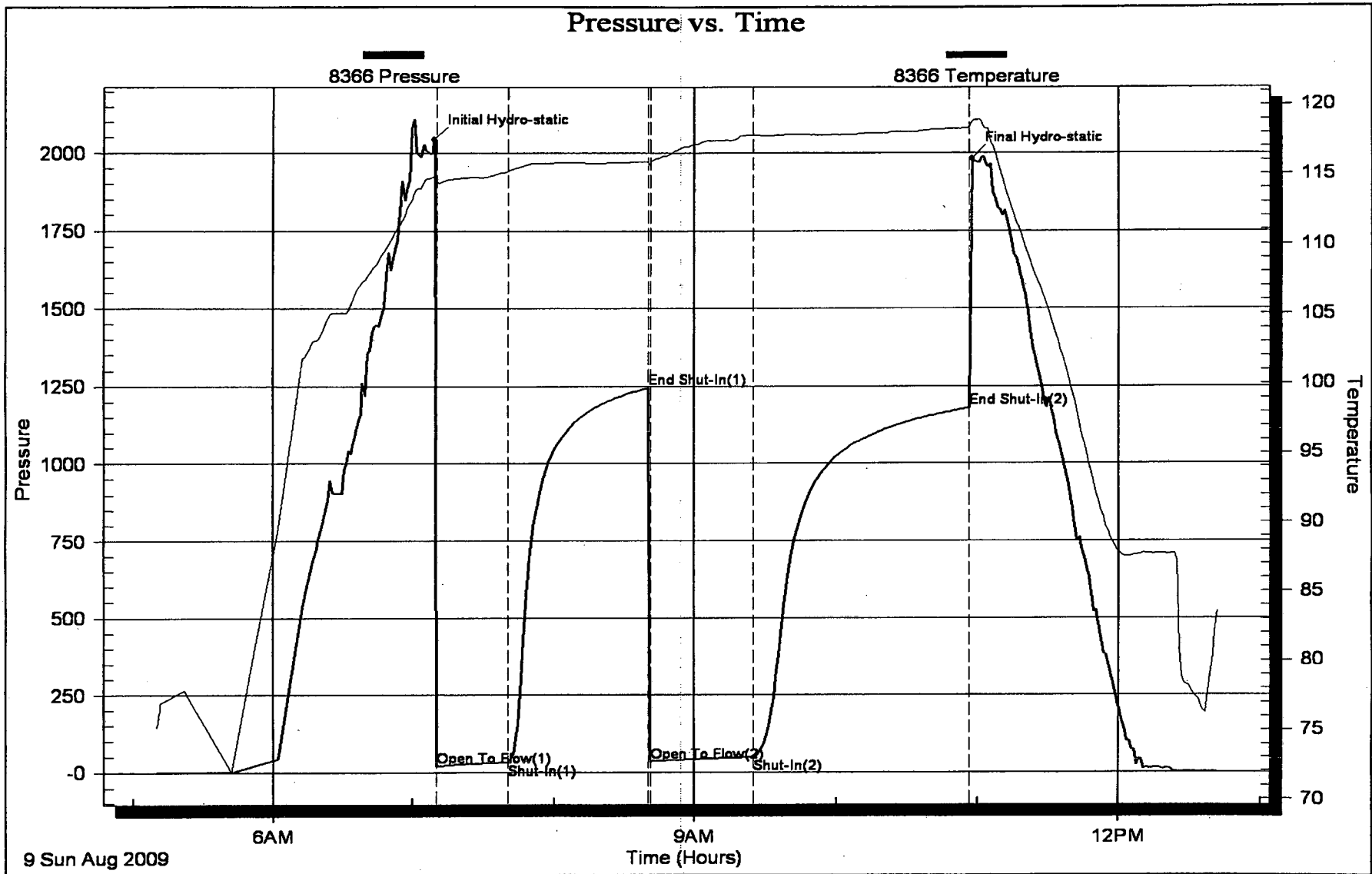
Length ft	Description	Volume bbl
1.00	Oil 99%o, 1%m	0.005
60.00	OCM 85%m, 13%o, 2%g	0.295
0.00	Gravity = 37.4 api @ 86 deg F	0.000
0.00	Corrected Gravity = 34.8 api	0.000

Total Length: 61.00 ft      Total Volume: 0.300 bbl

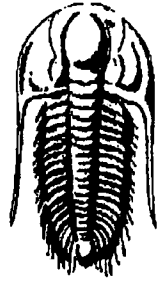
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc**

PO Box 292  
Wahoo, NE 68066-0292

ATTN: Richard Bell

**35 4s 30w Decatur KS**

**Sauvage Family #3**

Start Date: 2009.08.09 @ 19:05:00

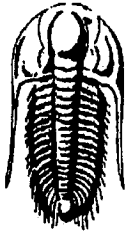
End Date: 2009.08.10 @ 01:33:00

Job Ticket #: 34515                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 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 68066-0292  
 ATTN: Richard Bell

**Sauvage Family #3**  
**35 4s 30w Decatur KS**  
 Job Ticket: 34515      **DST#: 5**  
 Test Start: 2009.08.09 @ 19:05:00

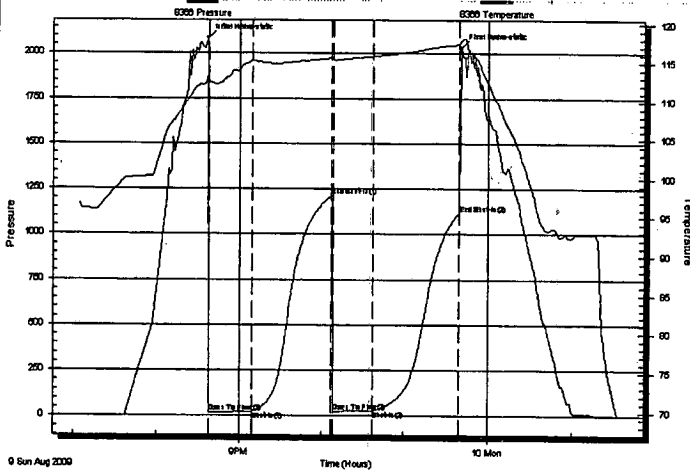
## GENERAL INFORMATION:

Formation: **LKC "K"**  
 Deviated: **No** Whipstock:                      **ft (KB)**  
 Time Tool Opened: **20:37:30**  
 Time Test Ended: **01:33:00**  
 Interval: **4115.00 ft (KB) To 4150.00 ft (KB) (TVD)**  
 Total Depth: **4150.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **James Winder**  
 Unit No: **46**  
 Reference Elevations: **2880.00 ft (KB)**  
    **2875.00 ft (CF)**  
    **KB to GR/CF: 5.00 ft**

**Serial #: 8366**      **Inside**  
 Press@RunDepth: **28.74 psig @ 4116.00 ft (KB)**  
 Start Date: **2009.08.09**      End Date: **2009.08.10**  
 Start Time: **19:05:05**      End Time: **01:32:59**  
 Capacity: **7000.00 psig**  
 Last Calib.: **2009.08.10**  
 Time On Btm: **2009.08.09 @ 20:36:30**  
 Time Off Btm: **2009.08.09 @ 23:40:29**

**TEST COMMENT:** IF: Surface blow, dead in 28 min.  
 IS: No blow back  
 FF: No blow  
 FSI: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

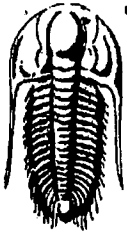
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.90	113.42	Initial Hydro-static
1	17.72	112.48	Open To Flow (1)
32	24.20	115.27	Shut-In(1)
91	1211.54	115.61	End Shut-In(1)
92	24.94	115.37	Open To Flow (2)
121	28.74	115.85	Shut-In(2)
183	1115.51	117.40	End Shut-In(2)
184	2033.66	117.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 74% <sub>m</sub> , 25% <sub>o</sub> , 1% <sub>g</sub>	0.15

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy, Inc  
 PO Box 292  
 Wahoo, NE 68066-0292  
 ATTN: Richard Bell

**Sauvage Family #3**  
**35 4s 30w Decatur KS**  
 Job Ticket: 34515      **DST#: 5**  
 Test Start: 2009.08.09 @ 19:05:00

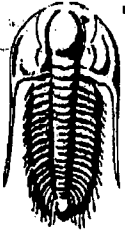
**Tool Information**

Drill Pipe:	Length: 3995.00 ft	Diameter: 3.80 inches	Volume: 56.04 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4115.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4093.00	
HYD S.I. Tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	2.00			4105.00	
Packer	5.00			4110.00	27.00 Bottom Of Top Packer
Packer	5.00			4115.00	
Shale Packer	0.00			4115.00	
Stubb	1.00			4116.00	
Recorder	0.00	8366	Inside	4116.00	
Recorder	0.00	8320	Inside	4116.00	
Perforations	31.00			4147.00	
Bullnose	3.00			4150.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34515

**DST#: 5**

ATTN: Richard Bell

Test Start: 2009.08.09 @ 19:05:00

**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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 74% <sub>m</sub> , 25% <sub>o</sub> , 1% <sub>g</sub>	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

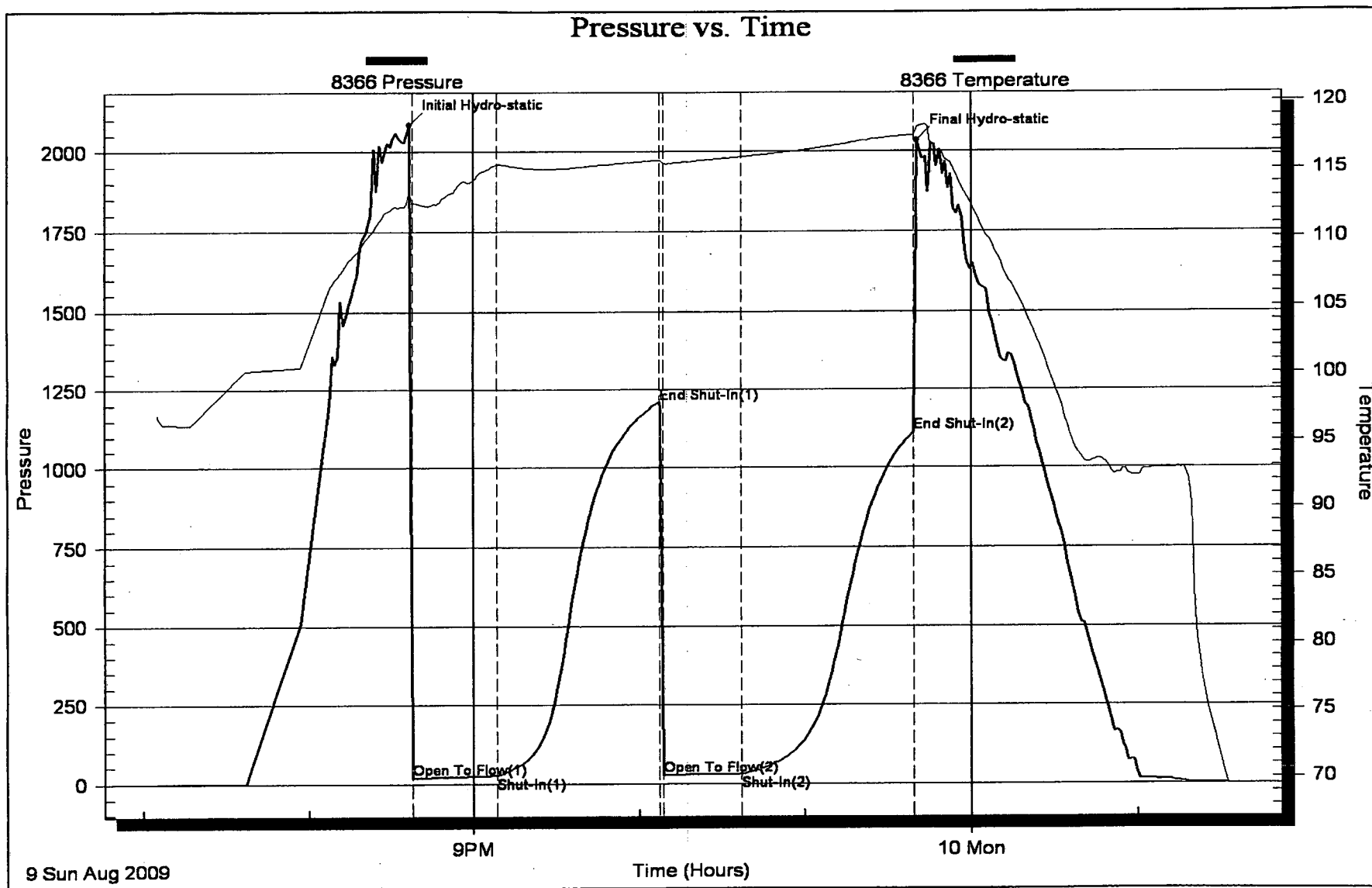
Num Gas Bombs: 0

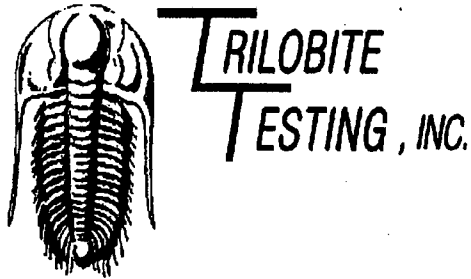
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc**

PO Box 292  
Wahoo, NE 68066-0292

ATTN: Richard Bell

### 35 4s 30w Decatur KS

#### Sauvage Family #3

Start Date: 2009.08.11 @ 07:00:00

End Date: 2009.08.11 @ 14:48:00

Job Ticket #: 34516                      DST #: 6

Trilobite Testing, Inc  
PO Box 1733 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 68066-0292

ATTN: Richard Bell

**Sauvage Family #3**

**35 4s 30w Decatur KS**

Job Ticket: 34516

DST#: 6

Test Start: 2009.08.11 @ 07:00:00

## GENERAL INFORMATION:

Formation: **LKC "B - D"**

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

Time Tool Opened: 08:52:00

Time Test Ended: 14:48:00

Test Type: **Conventional Straddle**

Tester: **James Winder**

Unit No: **46**

Interval: **3974.00 ft (KB) To 4011.00 ft (KB) (TVD)**

Total Depth: **4240.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2880.00 ft (KB)**

**2875.00 ft (CF)**

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

**Serial #: 8366**

**Inside**

Press@RunDepth: **356.57 psig @ 3975.00 ft (KB)**

Start Date: **2009.08.11**

End Date:

**2009.08.11**

Start Time: **07:00:05**

End Time:

**14:47:59**

Capacity: **7000.00 psig**

Last Calib.: **2009.08.11**

Time On Btm: **2009.08.11 @ 08:50:30**

Time Off Btm: **2009.08.11 @ 12:38:00**

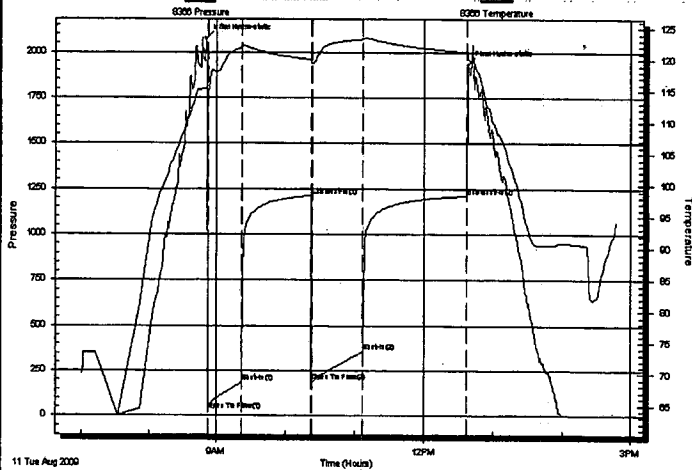
TEST COMMENT: IF: Blow built to BOB in 10 1/2 min.

IS: Bled off, No blow back

FF: Blow built to BOB in 13 min.

FS: Bled off, No blow back

Pressure vs. Time



## PRESSURE SUMMARY

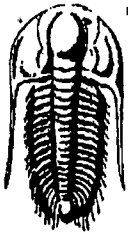
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.20	115.45	Initial Hydro-static
2	27.08	114.86	Open To Flow (1)
32	185.21	121.90	Shut-In(1)
92	1211.40	120.01	End Shut-In(1)
93	190.69	119.40	Open To Flow (2)
137	356.57	123.22	Shut-In(2)
227	1210.68	121.20	End Shut-In(2)
228	1933.11	120.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
440.00	MCW 94%w, 6% m	5.04
290.00	MCW 75%w, 25% m	4.07
0.00	RW = .116 ohms @ 96.5 deg F	0.00
0.00	Chlorides = 48,000 ppm	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

Job Ticket: 34516

**DST#: 6**

ATTN: Richard Bell

Test Start: 2009.08.11 @ 07:00:00

## Tool Information

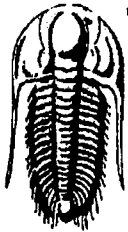
Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 54.40 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3974.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	4011.00 ft			
Interval between Packers:	37.00 ft			
Tool Length:	293.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3952.00	
HYD S.I. Tool	5.00			3957.00	
Jars	5.00			3962.00	
Safety Joint	2.00			3964.00	
Packer	5.00			3969.00	27.00 Bottom Of Top Packer
Packer	5.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	8366	Inside	3975.00	
Perforations	31.00			4006.00	
Recorder	0.00	7457	Inside	4006.00	
Blank Off Sub	1.00			4007.00	
Blank Spacing	4.00			4011.00	37.00 Tool Interval
Packer	0.00			4011.00	
Shale Packer	0.00			4011.00	
Stubb	1.00			4012.00	
Recorder	0.00	8320	Inside	4012.00	
Perforations	2.00			4014.00	
Blank Spacing	223.00			4237.00	
Bullnose	3.00			4240.00	229.00 Bottom Packers & Anchor

**Total Tool Length: 293.00**





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy, Inc

**Sauvage Family #3**

PO Box 292  
Wahoo, NE 68066-0292

**35 4s 30w Decatur KS**

ATTN: Richard Bell

Job Ticket: 34516      **DST#: 6**

Test Start: 2009.08.11 @ 07:00:00

**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:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
440.00	MCW 94%w, 6%m	5.042
290.00	MCW 75%w, 25%m	4.068
0.00	RW = .116 ohms @ 96.5 deg F	0.000
0.00	Chlorides = 48,000 ppm	0.000

Total Length: 730.00 ft      Total Volume: 9.110 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

