

ORIGINAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

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: \_\_\_\_\_  
City: Wahoo State: NE Zip: 68066 + 0292  
Contact Person: Dan Blankenau  
Phone: ( 402 ) 277-5336  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Company, Inc.  
Wellsite Geologist: William B. Bynog  
Purchaser: None

Designate Type of Completion:  
\_\_\_\_ New Well \_\_\_\_ Re-Entry \_\_\_\_ Workover  
 Oil \_\_\_\_ SWD \_\_\_\_ SIOW  
\_\_\_\_ Gas \_\_\_\_ ENHR \_\_\_\_ SIGW  
\_\_\_\_ CM (Coal Bed Methane) \_\_\_\_ Temp. Abd.  
 Dry \_\_\_\_ Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, 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  
\_\_\_\_ Plug Back: \_\_\_\_\_ Plug Back Total Depth  
\_\_\_\_ Commingled Docket No.: \_\_\_\_\_  
\_\_\_\_ Dual Completion Docket No.: \_\_\_\_\_  
\_\_\_\_ Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  

<u>12/01/08</u>	<u>12/07/08</u>	<u>12/07/08</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 039-21083-00-00  
Spot Description: \_\_\_\_\_  
C SW NE NE Sec. 12 Twp. 5 S. R. 27  East  West  
990 Feet from  North /  South Line of Section  
990 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Decatur  
Lease Name: Carter Well #: 1  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 2600' Kelly Bushing: 2605'  
Total Depth: 3810' Plug Back Total Depth: 3808'  
Amount of Surface Pipe Set and Cemented at: 262 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 P+A AH II NUR  
(Data must be collected from the Reserve Pit) 10-9-09  
Chloride content: 800 ppm Fluid volume: 600-800 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.: \_\_\_\_\_

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SEP 21 2009  
KCC WICHITA

**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,  
20 09.  
Notary Public: Patricia K. Styskal  
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: Carter Well #: 1  
 Sec. 12 Twp. 5 S. R. 27  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>Dual Induction, Compensated Density/Neutron,                  Micro, Sonic</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>Anhydrite</td> <td>2167</td> <td>+438</td> </tr> <tr> <td>Base</td> <td>2200</td> <td>+405</td> </tr> <tr> <td>Topeka</td> <td>3367</td> <td>-762</td> </tr> <tr> <td>Heebner</td> <td>3548</td> <td>-943</td> </tr> <tr> <td>Toronto</td> <td>3574</td> <td>-969</td> </tr> <tr> <td>Lansing</td> <td>3588</td> <td>-983</td> </tr> <tr> <td>BKC</td> <td>3776</td> <td>-1171</td> </tr> </table>	Name	Top	Datum	Anhydrite	2167	+438	Base	2200	+405	Topeka	3367	-762	Heebner	3548	-943	Toronto	3574	-969	Lansing	3588	-983	BKC	3776	-1171
Name	Top	Datum																							
Anhydrite	2167	+438																							
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Toronto	3574	-969																							
Lansing	3588	-983																							
BKC	3776	-1171																							

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	12 1/2"	8 5/8"	23	262	Common	185	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 (Amount and Kind of Material Used)	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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# ALLIED CEMENTING CO., LLC. 044187

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley

DATE <u>12-2-08</u>	SEC. <u>12</u>	TWP. <u>5</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION <u>6:30 pm</u>	JOB START <u>6:30 pm</u>	JOB FINISH <u>8:30 pm</u>
LEASE <u>Carter</u>	WELL # <u>1</u>	LOCATION <u>Jennings 3/2 S NW 1/4 T0</u>			COUNTY <u>Decker</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murfin Drilling Rig 3  
 TYPE OF JOB AWP  
 HOLE SIZE 2 7/8 T.D. 2810'  
 CASING SIZE DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 2170'  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT

OWNER same  
 CEMENT  
 AMOUNT ORDERED 220 sks 60 1/4 48 gal  
144# FLO-seal  
 COMMON 1306 lbs @ 15.45 2008.50  
 POZMIX 40 FBR @ 8.00 320.00  
 GEL 7 gal @ 20.80 145.60  
 CHLORIDE @ 3  
 ASC @  
 FLO-seal 55# @ 2.50 137.50  
 @  
 @  
 @  
 @  
 @  
 HANDLING 229 sks @ 2.40 549.60  
 MILEAGE 101.54 mile 1324.00  
 TOTAL 4935.20

EQUIPMENT  
 PUMP TRUCK CEMENTER Andrew  
 # 423-281 HELPER Larene  
 BULK TRUCK  
 # 347 DRIVER Jerry  
 BULK TRUCK  
 # DRIVER

REMARKS:  
25 sks @ 2170'  
100 sks @ 1450'  
40 sks @ 310'  
10 sks @ 40'  
15 sks mouse hole  
30 sks Rat hole  
Thank you

SERVICE  
 DEPTH OF JOB 2170'  
 PUMP TRUCK CHARGE 1185.00  
 EXTRA FOOTAGE @  
 MILEAGE 60 miles @ 2.00 120.00  
 MANIFOLD @  
 @  
 @  
 TOTAL 1605.00

CHARGE TO: Great Plains Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT  
8 7/8  
1 Dry hole plug @ 40.00  
 @  
 @  
 @  
 @  
 TOTAL 40.00

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Charles Van Pelt  
 SIGNATURE Charles Van Pelt

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 044025

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley Ks

DATE <u>12/1/09</u>	SEC. <u>12</u>	TWP. <u>5</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION <u>7:00pm</u>	JOB START	JOB FINISH
LEASE <u>Carter</u>		WELL # <u>1</u>	LOCATION <u>Jennings 4S W + N into</u>			COUNTY <u>Decker</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)							

CONTRACTOR Murfin 3  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 262  
 CASING SIZE 8 5/8 DEPTH 262  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 15 1/2 BBL

OWNER Same  
 CEMENT AMOUNT ORDERED 185 SKs Com 300cc  
2000 gbl

COMMON	<u>185 SKs</u>	@	<u>15.45</u>	<u>2858.25</u>
POZMIX		@		
GEL	<u>4 SKs</u>	@	<u>20.00</u>	<u>80.00</u>
CHLORIDE	<u>7 SKs</u>	@	<u>58.00</u>	<u>407.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>196 SKs</u>	@	<u>2.40</u>	<u>470.40</u>
MILEAGE	<u>104 SK/mile</u>			<u>1126.00</u>
TOTAL				<u>4995.25</u>

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EQUIPMENT

PUMP TRUCK CEMENTER Alan  
 # 422 HELPER Wayne  
 BULK TRUCK  
 # 347 DRIVER Walt M.  
 BULK TRUCK  
 # DRIVER

REMARKS:  
cement did circulate

*Thank You*  
Alan, Wayne, Walt M

CHARGE TO: Great Plains Energy Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>262'</u>			
PUMP TRUCK CHARGE			<u>1018.00</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>60</u>	@	<u>7.00</u> <u>420.00</u>	
MANIFOLD - <u>Head</u>		@	<u>113.00</u>	
		@		
		@		
TOTAL				<u>1551.00</u>

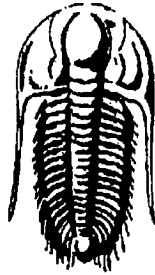
PLUG & FLOAT EQUIPMENT

<u>8 5/8 wooden Plug</u>	@	<u>68.00</u>	
	@		
	@		
	@		
	@		
TOTAL			<u>68.00</u>

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Kath Van Pelt

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

RECEIVED  
SEP 21 2009  
KCC WICHITA

## DRILL STEM TEST REPORT

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

PO Box 292  
Wahoo, Ne 68066-0292

ATTN: Bryan Bynog

**12 5s 27w Decatur KS**

**Carter #1-12**

Start Date: 2008.12.05 @ 12:35:00

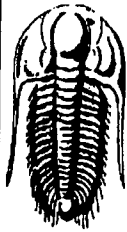
End Date: 2008.12.05 @ 19:46:30

Job Ticket #: 33299                      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

Great Plains Energy, Inc.

PO Box 292  
Wahoo, Ne 68066-0292

ATTN: Bryan Bynog

**Carter #1-12**

**12 5s 27w Decatur KS**

Job Ticket: 33299

**DST#: 1**

Test Start: 2008.12.05 @ 12:35:00

## GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:00

Time Test Ended: 19:46:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 3582.00 ft (KB) To 3604.00 ft (KB) (TVD)

Total Depth: 3604.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2605.00 ft (KB)

2600.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8366** Inside

Press@RunDepth: 52.82 psig @ 3583.00 ft (KB)

Start Date: 2008.12.05

End Date: 2008.12.05

Start Time: 12:35:05

End Time: 19:46:29

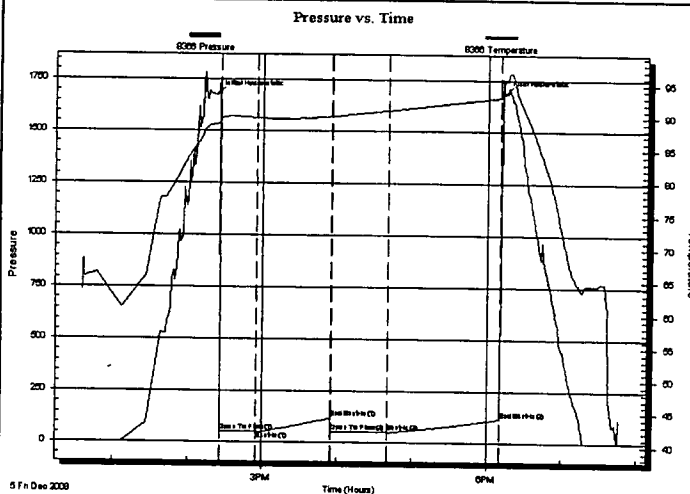
Capacity: 7000.00 psig

Last Calib.: 2008.12.05

Time On Btm: 2008.12.05 @ 14:23:30

Time Off Btm: 2008.12.05 @ 18:13:30

**TEST COMMENT:** IF: Blow started at 3" (from mud surge), off/on blow at 3" through open  
IS: Bled off, on/off surface blow back after 17 min.  
FF: Off/on surface blow, after 9 min. through open  
FS: Bled off, No bl



## PRESSURE SUMMARY

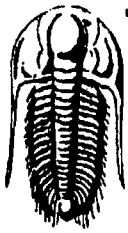
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.28	88.78	Initial Hydro-static
3	50.92	89.18	Open To Flow (1)
32	52.31	89.84	Shut-In (1)
92	121.11	90.09	End Shut-In (1)
92	51.41	90.06	Open To Flow (2)
137	52.82	91.03	Shut-In (2)
227	117.69	93.01	End Shut-In (2)
230	1685.53	95.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud 100%	0.34

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Energy, Inc.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

Job Ticket: 33299      **DST#: 1**

ATTN: Bryan Bynog

Test Start: 2008.12.05 @ 12:35:00

**Tool Information**

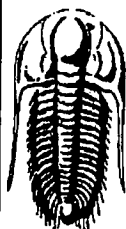
Drill Pipe:	Length: 3038.00 ft	Diameter: 3.80 inches	Volume: 42.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 45.31 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3582.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Tool slid 3' before opening & 4' at open  
Hole lost about 10' of mud

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

S.I. Tool	5.00			3559.00	
HYD S.I. Tool	5.00			3564.00	
Jars	5.00			3569.00	
Safety Joint	3.00			3572.00	
Packer	5.00			3577.00	28.00      Bottom Of Top Packer
Packer	5.00			3582.00	
Stubb	1.00			3583.00	
Recorder	0.00	8366	inside	3583.00	
Recorder	0.00	8320	inside	3583.00	
Perforations	18.00			3601.00	
Bullnose	3.00			3604.00	22.00      Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Energy, Inc.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

Job Ticket: 33299      DST#: 1

ATTN: Bryan Bynog

Test Start: 2008.12.05 @ 12:35:00

## 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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	Mud 100%	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

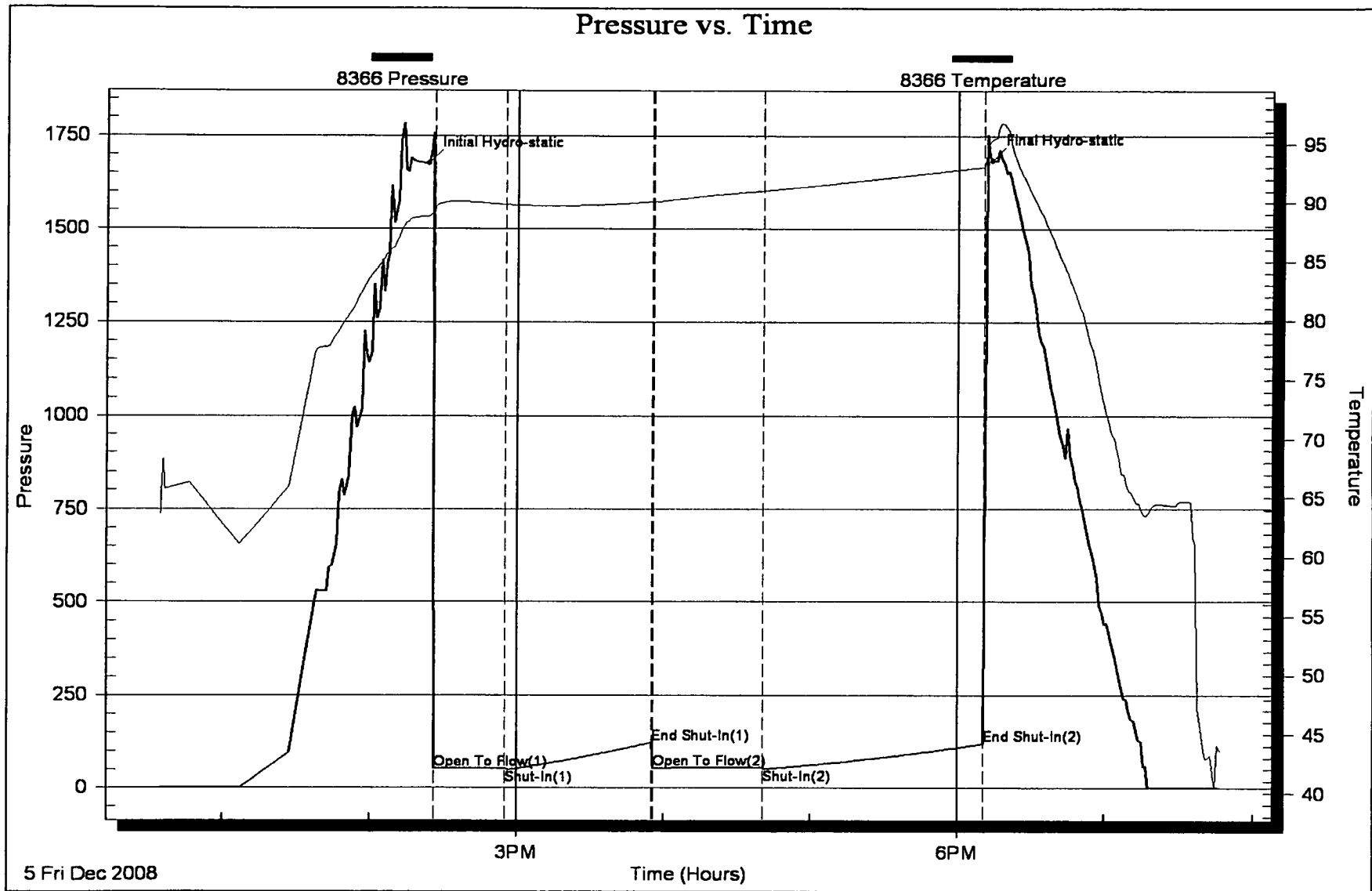
Serial #:

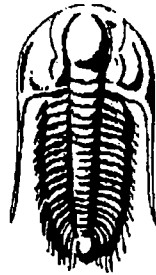
Laboratory Name:

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: Bryan Bynog

**12 5s 27w Decatur KS**

**Carter #1-12**

Start Date: 2008.12.06 @ 01:36:00

End Date: 2008.12.06 @ 09:43:30

Job Ticket #: 33300                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Great Plains Energy, Inc.

Carter #1-12

12 5s 27w Decatur KS

DST # 2

LKC "C"

2008.12.06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Great Plains Energy, Inc.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

ATTN: Bryan Bynog

Job Ticket: 33300

**DST#: 2**

Test Start: 2008.12.06 @ 01:36:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

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

Time Tool Opened: 03:16:30

Time Test Ended: 09:43:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **36**

Interval: **3601.00 ft (KB) To 3621.00 ft (KB) (TVD)**

Total Depth: **3621.00 ft (KB) (TVD)**

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

Reference Elevations: **2605.00 ft (KB)**

**2600.00 ft (CF)**

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

**Serial #: 8366**

**Inside**

Press@RunDepth: **289.41 psig @ 3602.00 ft (KB)**

Start Date: **2008.12.06**

End Date:

**2008.12.06**

Start Time: **01:36:05**

End Time:

**09:43:29**

Capacity: **7000.00 psig**

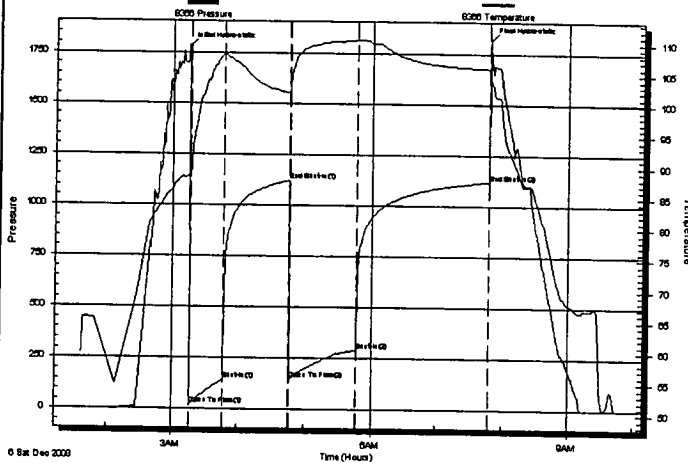
Last Calib.: **2008.12.06**

Time On Btm: **2008.12.06 @ 03:15:00**

Time Off Btm: **2008.12.06 @ 07:48:59**

**TEST COMMENT:** IF: Blow built to BOB in 24 1/2 min.  
IS: Bled off, No blow back  
FF: Blow built to BOB in 33 1/2 min.  
FSI: Bled off, No blow back

Pressure vs. Time



## PRESSURE SUMMARY

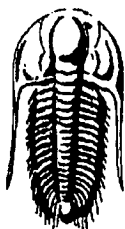
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.27	88.34	Initial Hydro-static
2	19.25	88.27	Open To Flow (1)
32	141.51	108.04	Shut-In(1)
92	1121.19	101.95	End Shut-In(1)
92	146.77	101.87	Open To Flow (2)
152	289.41	110.51	Shut-In(2)
273	1118.88	105.99	End Shut-In(2)
274	1815.02	104.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
547.00	SMCW 96%w, 4%m	2.69
40.00	MCW 86%w, 14%m	0.56
0.00	Chlorides = 70,000 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.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

ATTN: Bryan Bynog

Job Ticket: 33300

**DST#: 2**

Test Start: 2008.12.06 @ 01:36:00

### Tool Information

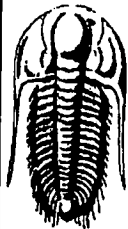
Drill Pipe:	Length: 3039.00 ft	Diameter: 3.80 inches	Volume: 42.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 88000.00 lb
		<u>Total Volume:</u>	<u>45.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	3601.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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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S.I. Tool	5.00			3578.00	
HYD S.I. Tool	5.00			3583.00	
Jars	5.00			3588.00	
Safety Joint	3.00			3591.00	
Packer	5.00			3596.00	28.00 Bottom Of Top Packer
Packer	5.00			3601.00	
Stubb	1.00			3602.00	
Recorder	0.00	8366	Inside	3602.00	
Recorder	0.00	8320	Inside	3602.00	
Perforations	16.00			3618.00	
Bullnose	3.00			3621.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Energy, Inc.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

Job Ticket: 33300      **DST#: 2**

ATTN: Bryan Bynog

Test Start: 2008.12.06 @ 01:36:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

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

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

deg API

Water Salinity:

96000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
547.00	SMCW 96%w, 4%m	2.690
40.00	MCW 86%w, 14%m	0.561
0.00	Chlorides = 70,000 ppm	0.000

Total Length: 587.00 ft      Total Volume: 3.251 bbl

Num Fluid Samples: 0

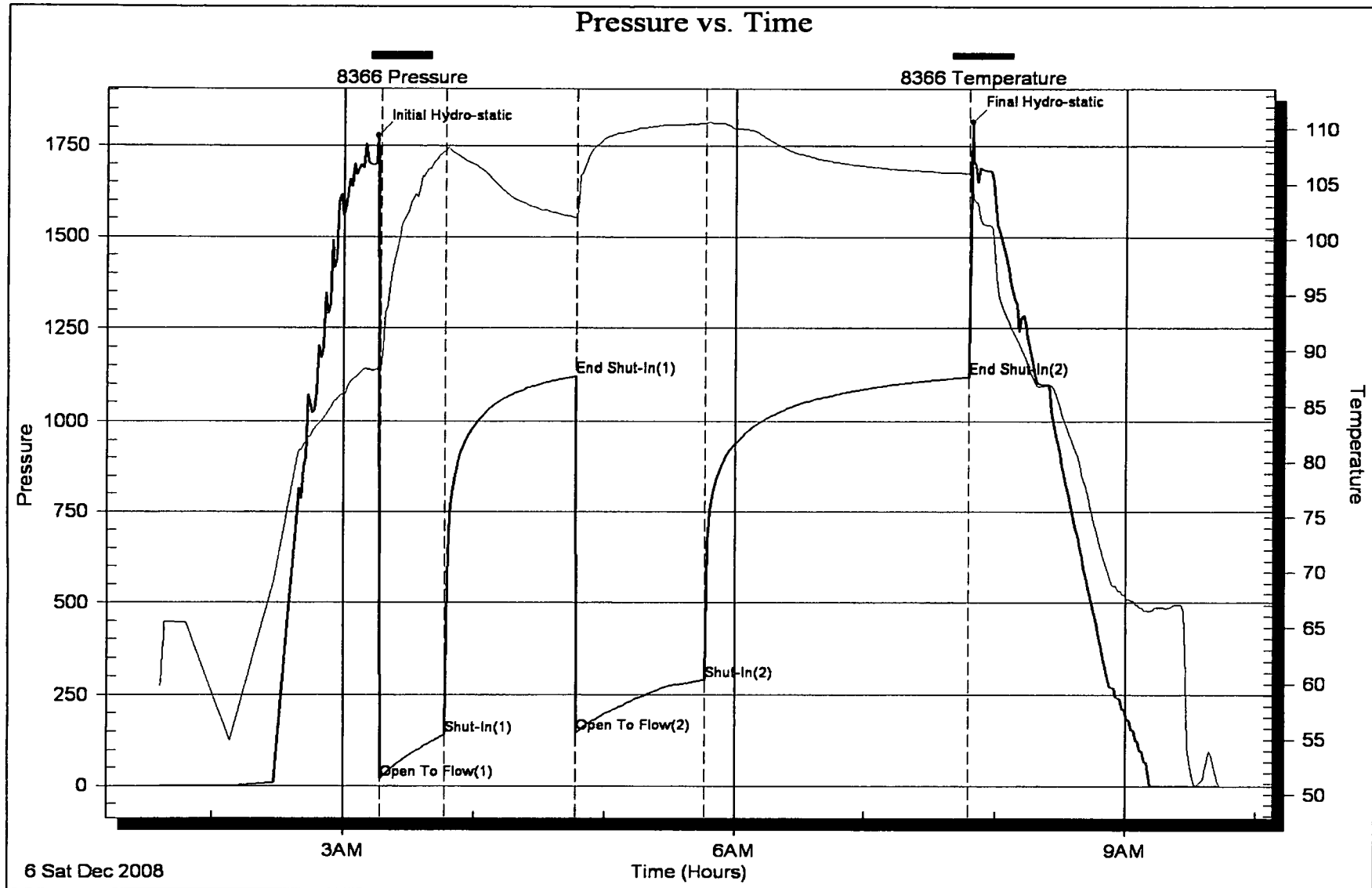
Num Gas Bombs: 0

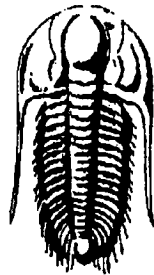
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .123 @ 46.2 F





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 292  
Wahoo, Ne 68066-0292

ATTN: Bryan Bynog

**12 5s 27w Decatur KS**

**Carter #1-12**

Start Date: 2008.12.06 @ 16:12:30

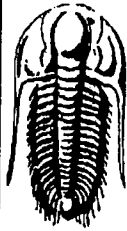
End Date: 2008.12.06 @ 22:10:30

Job Ticket #: 33351                      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: Bryan Bynog

**Carter #1-12**

**12 5s 27w Decatur KS**

Job Ticket: 33351 **DST#: 3**

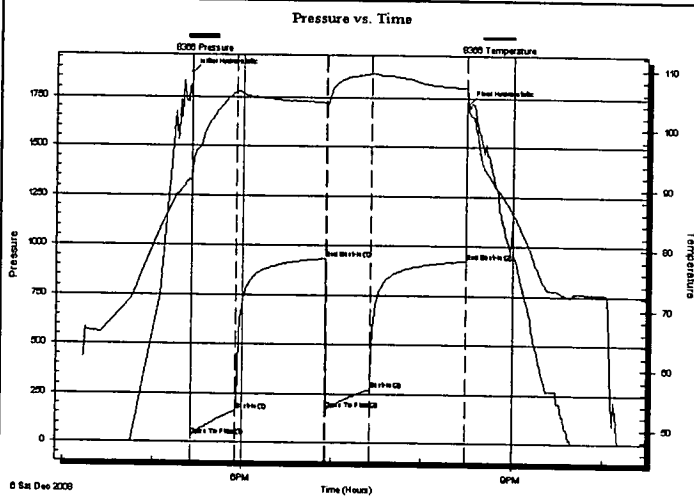
Test Start: 2008.12.06 @ 16:12:30

## GENERAL INFORMATION:

Formation: **LKC "F"**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 17:26:00  
 Time Test Ended: 22:10:30  
 Interval: **3634.00 ft (KB) To 3655.00 ft (KB) (TVD)**  
 Total Depth: **3655.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **James Winder**  
 Unit No: **36**  
 Reference Elevations: **2605.00 ft (KB)**  
**2600.00 ft (CF)**  
**KB to GR/CF: 5.00 ft**

**Serial #: 8366** **Inside**  
 Press@RunDepth: **271.79 psig @ 3635.00 ft (KB)**  
 Start Date: **2008.12.06** End Date: **2008.12.06**  
 Start Time: **16:12:35** End Time: **22:10:29**  
 Capacity: **7000.00 psig**  
 Last Calib.: **2008.12.06**  
 Time On Btm: **2008.12.06 @ 17:25:30**  
 Time Off Btm: **2008.12.06 @ 20:29:59**

**TEST COMMENT:** IF: Blow built to BOB (11 1/2") in 20 min.  
 IS: Bled off, No blow back  
 FF: Blow built to 11"  
 FS: Bled off, No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.70	91.37	Initial Hydro-static
1	30.26	91.69	Open To Flow (1)
30	163.52	106.19	Shut-In(1)
90	934.79	104.40	End Shut-In(1)
91	173.26	103.93	Open To Flow(2)
120	271.79	109.25	Shut-In(2)
183	925.58	107.04	End Shut-In(2)
185	1718.23	103.22	Final Hydro-static

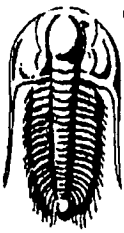
## Recovery

Length (ft)	Description	Volume (bbl)
305.00	SMCW 95%w, 5%m	1.50
245.00	MCW 78%w, 22%m	1.23
0.00	Oil spots in tool	0.00
0.00	RW = .131 @ 44.7 deg F	0.00
0.00	Chlorides = 96,000 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.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

Job Ticket: 33351

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2008.12.06 @ 16:12:30

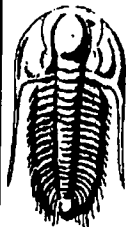
**Tool Information**

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.80 inches	Volume: 43.04 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: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 45.73 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	3634.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Tool slid 2' before open & 2' at open				

<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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S.I. Tool	5.00			3611.00	
HYD S.I. Tool	5.00			3616.00	
Jars	5.00			3621.00	
Safety Joint	3.00			3624.00	
Packer	5.00			3629.00	28.00 Bottom Of Top Packer
Packer	5.00			3634.00	
Stubb	1.00			3635.00	
Recorder	0.00	8366	Inside	3635.00	
Recorder	0.00	8320	Inside	3635.00	
Perforations	17.00			3652.00	
Bullnose	3.00			3655.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy, Inc.

**Carter #1-12**

PO Box 292  
Wahoo, Ne 68066-0292

**12 5s 27w Decatur KS**

Job Ticket: 33351      **DST#: 3**

ATTN: Bryan Bynog

Test Start: 2008.12.06 @ 16:12:30

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

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

Resistivity: ohm.m

Salinity: 800.00 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
305.00	SMCW 95%w, 5%m	1.500
245.00	MCW 78%w, 22%m	1.232
0.00	Oil spots in tool	0.000
0.00	RW = .131 @ 44.7 deg F	0.000
0.00	Chlorides = 96,000 ppm	0.000

Total Length: 550.00 ft      Total Volume: 2.732 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

