

29-4-27W

15-039-21000

Great Plains Energy Inc

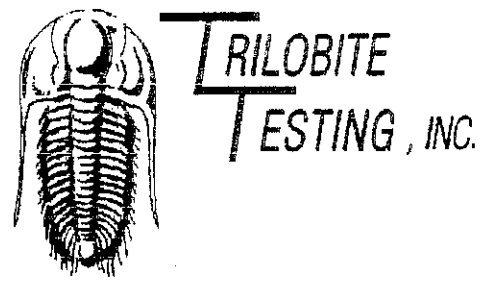
Ritter Family Farms #1

29 4 27 Decatur KS

DST # 1

LKC "B"

2007.05.22



DRILL STEM TEST REPORT

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

429 N Linden
P O Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

29 4 27 Decatur KS ✓

Ritter Family Farms #1 ✓

Start Date: 2007.05.22 @ 11:13:20 ✓

End Date: 2007.05.22 @ 17:13:44

Job Ticket #: 28530 DST #: 1

15-039-21000 ✓

SE SE SE

330 FSL 350 FEL

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 04 2008

CONSERVATION DIVISION
WICHITA, KS

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

429 N Linden
P O Box 292
Wahoo NE 68066
ATTN: Dan Blankenau

Ritter Family Farms #1

29 4 27 Decatur KS

Job Ticket: 28530

DST#: 1

Test Start: 2007.05.22 @ 11:13:20

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:39:45

Time Test Ended: 17:13:44

Interval: **3760.00 ft (KB) To 3783.00 ft (KB) (TVD)**

Total Depth: **3783.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2524.00 ft (KB)

2519.00 ft (CF) ✓

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 25.57 psig @ 3761.01 ft (KB)

Start Date: 2007.05.22 End Date: 2007.05.22

Start Time: 11:13:20 End Time: 17:13:44

Capacity: 7000.00 psig

Last Calib.: 2007.05.22

Time On Btm: 2007.05.22 @ 12:39:15

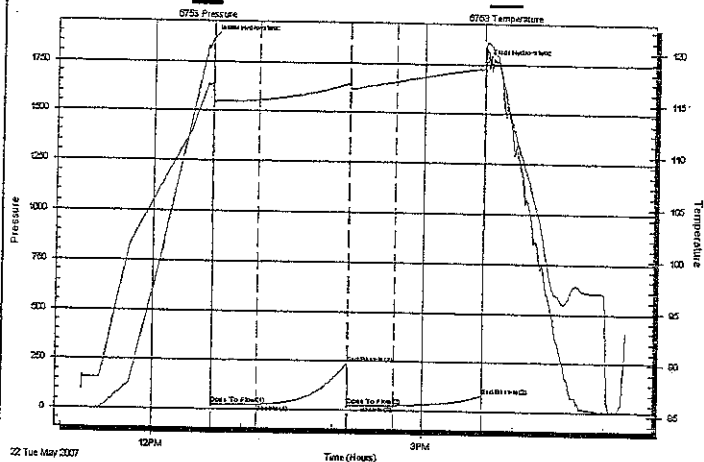
Time Off Btm: 2007.05.22 @ 15:39:44

TEST COMMENT: IFP Surface bl died in 22 min

FFP No bl

Times 30 60 30 60

Pressure vs. Time



PRESSURE SUMMARY

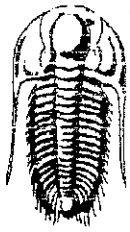
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.87	116.92	Initial Hydro-static
1	24.79	114.91	Open To Flow (1)
31	26.30	115.22	Shut-In (1)
91	238.74	116.90	End Shut-In (1)
91	26.23	116.39	Open To Flow (2)
122	25.57	117.12	Shut-In (2)
180	81.36	118.50	End Shut-In (2)
181	1760.04	120.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM w/show of CO top of tool	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Ritter Family Farms #1

429 N Linden
P O Box 292
Wahoo NE 68066

29 4 27 Decatur KS

Job Ticket: 28530

DST#: 1

ATTN: Dan Blankenau

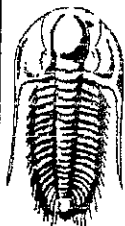
Test Start: 2007.05.22 @ 11:13:20

Tool Information

Drill Pipe:	Length:	3622.00 ft	Diameter:	3.80 inches	Volume:	50.81 bbl	Tool Weight:	2200.00 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	85000.00 lb
					Total Volume:	51.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft						String Weight: Initial	60000.00 lb
Depth to Top Packer:	3760.00 ft						Final	60000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	23.02 ft							
Tool Length:	51.02 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			3733.00	
Shut In Tool	5.00			3738.00	
Hydraulic tool	5.00			3743.00	
Jars	5.00			3748.00	
Safety Joint	2.00			3750.00	
Packer	5.00			3755.00	28.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Recorder	0.01	6753	Inside	3761.01	
Perforations	19.00			3780.01	
Recorder	0.01	13534	Outside	3780.02	
Bullnose	3.00			3783.02	23.02 Bottom Packers & Anchor

Total Tool Length: 51.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Ritter Family Farms #1

429 N Linden
P O Box 292
Wahoo NE 68066
ATTN: Dan Blankenau

29 4 27 Decatur KS

Job Ticket: 28530

DST#: 1

Test Start: 2007.05.22 @ 11:13:20

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.75 in³

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:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OCM w/show of CO top of tool	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

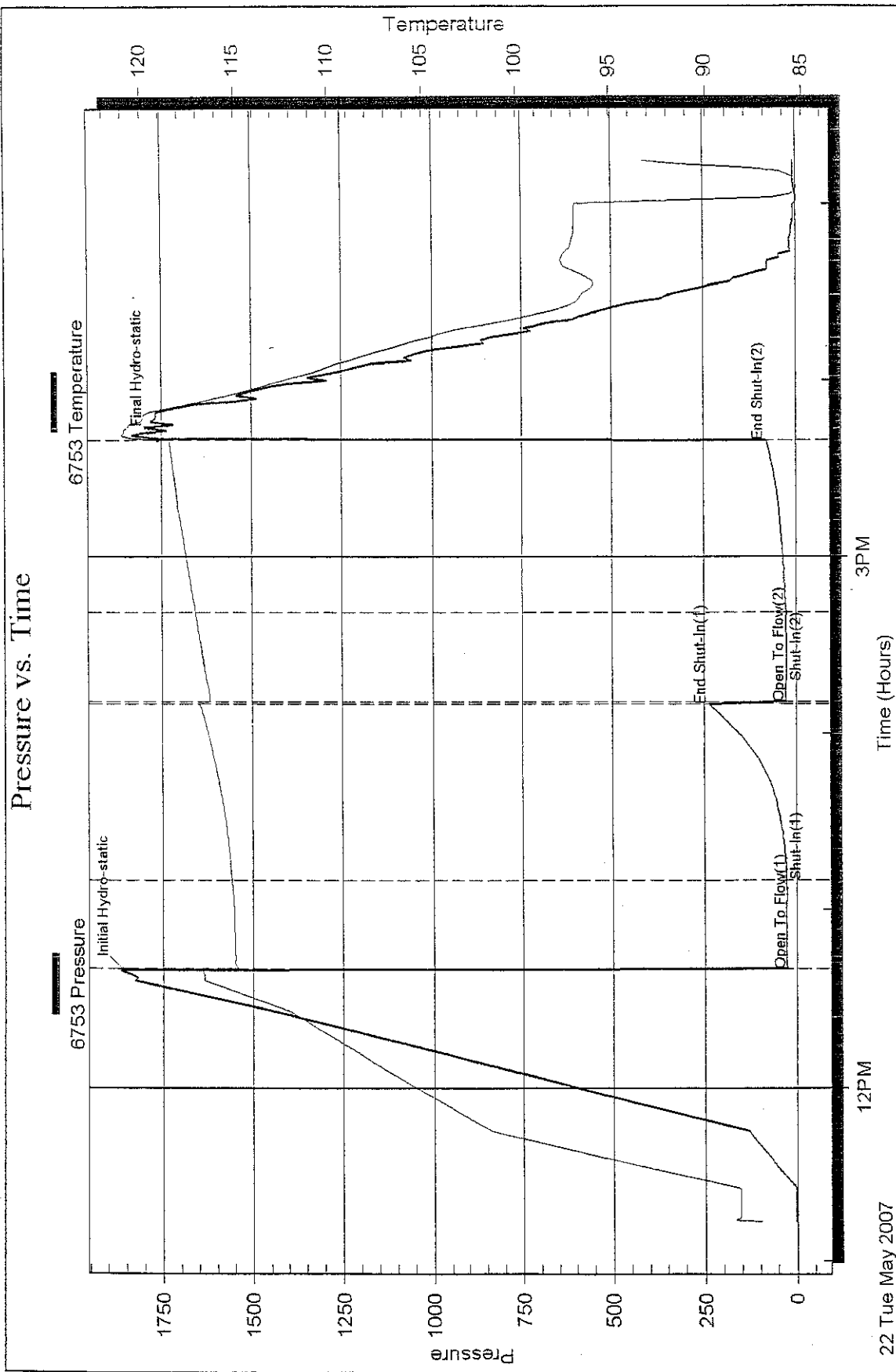
Num Gas Bombs: 0

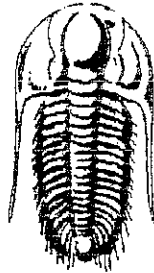
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

429 N Linden
P O Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

29 4 27 Decatur KS

Ritter Family Farms #1

Start Date: 2007.05.23 @ 04:37:07

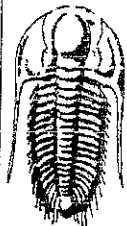
End Date: 2007.05.23 @ 11:41:01

Job Ticket #: 28531 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

429 N Linden
P O Box 292
Wahoo NE 68066
ATTN: Dan Blankenau

Ritter Family Farms #1

29 4 27 Decatur KS

Job Ticket: 28531

DST#: 2

Test Start: 2007.05.23 @ 04:37:07

GENERAL INFORMATION:

Formation: LKC E-H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:58:32

Time Test Ended: 11:41:01

Interval: 3797.00 ft (KB) To 3870.00 ft (KB) (TVD)

Total Depth: 3870.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2524.00 ft (KB)

2519.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 220.20 psig @ 3808.01 ft (KB)

Start Date: 2007.05.23

End Date:

2007.05.23

Start Time: 04:37:07

End Time:

11:41:01

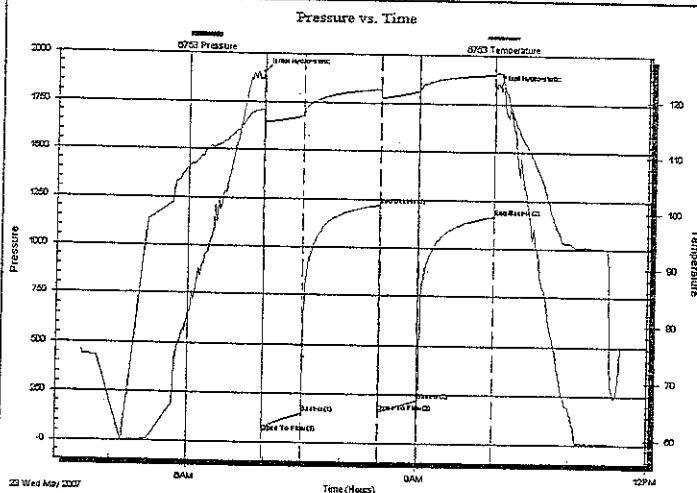
Capacity: 7000.00 psig

Last Calib.: 2007.05.23

Time On Btm: 2007.05.23 @ 06:58:02

Time Off Btm: 2007.05.23 @ 10:00:31

TEST COMMENT: IFF Wk to a gd bl 1/2" to 7" bl
FFP Wk to a fr bl surface to 5" bl
Times 30 60 30 60
No bl on shut-in



PRESSURE SUMMARY

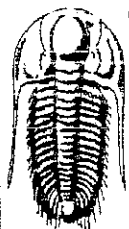
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.11	118.03	Initial Hydro-static
1	49.61	115.41	Open To Flow (1)
31	147.59	117.11	Shut-In (1)
91	1218.09	121.94	End Shut-In (1)
92	160.10	120.56	Open To Flow (2)
123	220.20	121.68	Shut-In (2)
182	1162.89	124.56	End Shut-In (2)
183	1827.95	124.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	WM 25%W 75%M	0.52
300.00	MW 80%W 20%MRW .12 @ 86F	4.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Ritter Family Farms #1

429 N Linden

29 4 27 Decatur KS

P O Box 292

Job Ticket: 28531

DST#: 2

Wahoo NE 68066

Test Start: 2007.05.23 @ 04:37:07

ATTN: Dan Blankenau

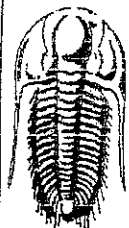
Tool Information

Drill Pipe:	Length: 3680.00 ft	Diameter: 3.80 inches	Volume: 51.62 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 52.21 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3797.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.02 ft			
Tool Length:	101.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
slid tool approx. 2' to bottom				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3770.00	
Shut In Tool	5.00			3775.00	
Hydraulic tool	5.00			3780.00	
Jars	5.00			3785.00	
Safety Joint	2.00			3787.00	
Packer	5.00			3792.00	28.00 Bottom Of Top Packer
Packer	5.00			3797.00	
Stubb	1.00			3798.00	
Perforations	10.00			3808.00	
Recorder	0.01	6753	Inside	3808.01	
Blank Spacing	33.00			3841.01	
Perforations	26.00			3867.01	
Recorder	0.01	13534	Outside	3867.02	
Bullnose	3.00			3870.02	73.02 Bottom Packers & Anchor

Total Tool Length: 101.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Ritter Family Farms #1

429 N Linden

29 4 27 Decatur KS

P O Box 292

Job Ticket: 28531

DST#: 2

Wahoo NE 68066

Test Start: 2007.05.23 @ 04:37:07

ATTN: Dan Blankenau

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:

51000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	WM 25%W 75%M	0.516
300.00	MW 80%W 20%M RW .12 @ 86F	4.072

Total Length: 405.00 ft

Total Volume: 4.588 bbl

Num Fluid Samples: 0

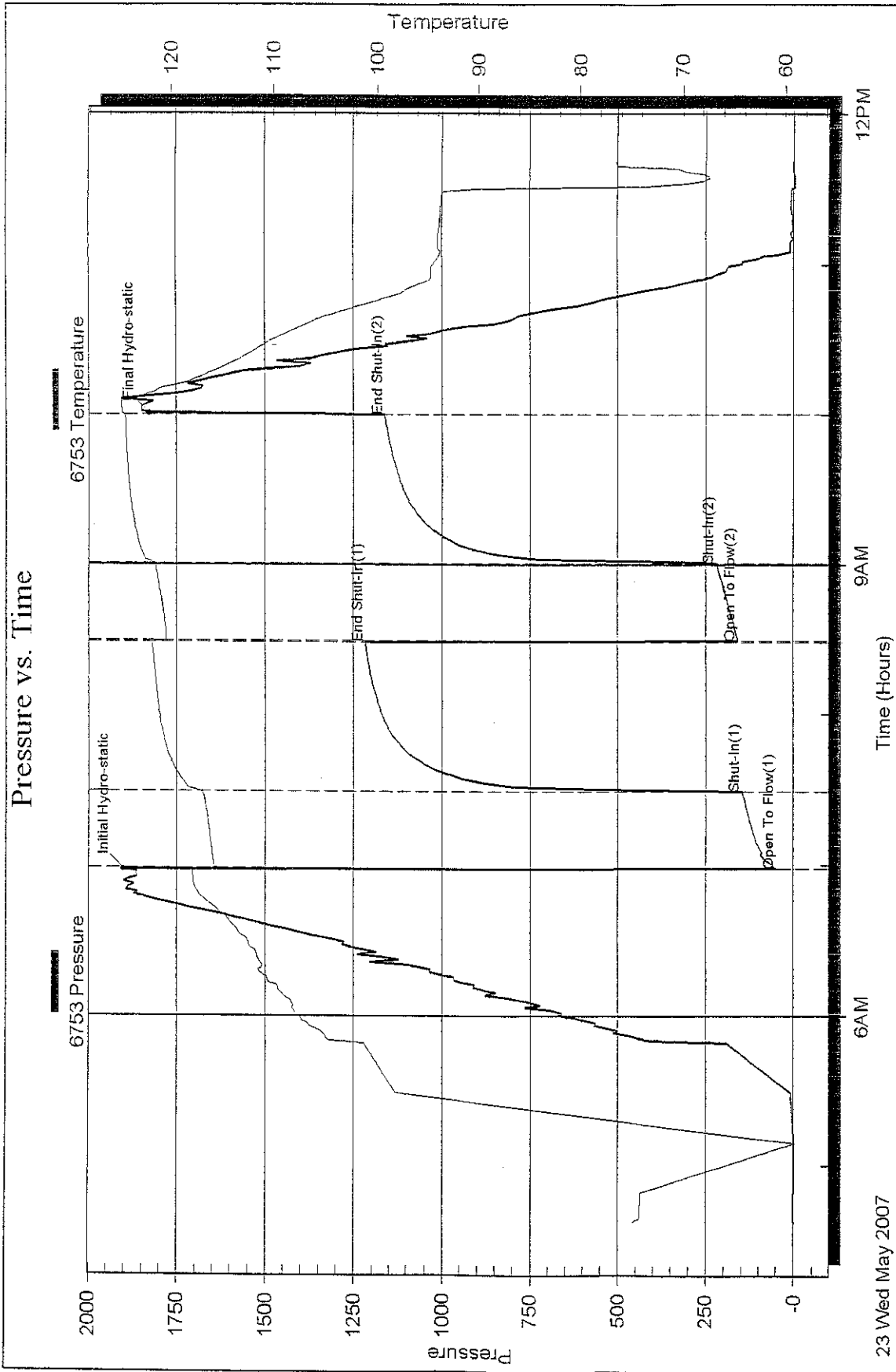
Num Gas Bombs: 0

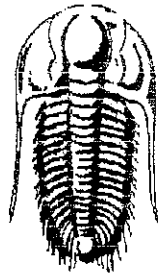
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

429 N Linden
P O Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

29 4 27 Decatur KS

Ritter Family Farms #1

Start Date: 2007.05.24 @ 07:41:44

End Date: 2007.05.24 @ 14:02:08

Job Ticket #: 28532 DST #: 3

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

429 N Linden
P O Box 292
Wahoo NE 68066
ATTN: Dan Blankenau

Ritter Family Farms #1

29 4 27 Decatur KS

Job Ticket: 28532

DST#: 3

Test Start: 2007.05.24 @ 07:41:44

GENERAL INFORMATION:

Formation: LKC J-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:12:39

Time Test Ended: 14:02:08

Interval: 3874.00 ft (KB) To 4003.00 ft (KB) (TVD)

Total Depth: 4003.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2524.00 ft (KB)

2519.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 85.16 psig @ 3875.01 ft (KB)

Start Date: 2007.05.24

End Date:

2007.05.24

Start Time: 07:41:44

End Time:

14:02:08

Capacity: 7000.00 psig

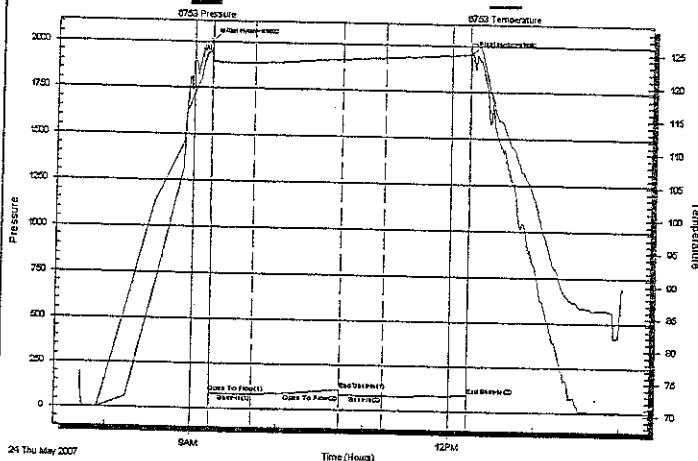
Last Calib.: 2007.05.24

Time On Btm: 2007.05.24 @ 09:12:09

Time Off Btm: 2007.05.24 @ 12:13:08

TEST COMMENT: IFP Wk bl thru-out 1/2 " bl
FFP No bl
Times 30 60 30 60

Pressure vs. Time



PRESSURE SUMMARY

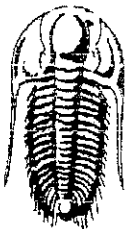
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.32	124.79	Initial Hydro-static
1	87.83	123.26	Open To Flow (1)
31	86.00	123.04	Shut-In (1)
91	115.87	123.83	End Shut-In (1)
92	88.02	123.78	Open To Flow (2)
122	85.16	124.14	Shut-In (2)
181	94.95	124.79	End Shut-In (2)
181	1951.62	126.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

429 N Linden
P O Box 292
Wahoo NE 68066
ATTN: Dan Blankenau

Ritter Family Farms #1

29 4 27 Decatur KS

Job Ticket: 28532

DST#: 3

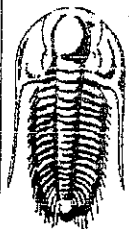
Test Start: 2007.05.24 @ 07:41:44

Tool Information

Drill Pipe:	Length: 3746.00 ft	Diameter: 3.80 inches	Volume: 52.55 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 53.14 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3874.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	129.02 ft			
Tool Length:	157.02 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			3847.00	
Shut In Tool	5.00			3852.00	
Hydraulic tool	5.00			3857.00	
Jars	5.00			3862.00	
Safety Joint	2.00			3864.00	
Packer	5.00			3869.00	28.00 Bottom Of Top Packer
Packer	5.00			3874.00	
Stubb	1.00			3875.00	
Recorder	0.01	6753	Inside	3875.01	
Perforations	5.00			3880.01	
Blank Spacing	95.00			3975.01	
Recorder	0.01	13534	Outside	3975.02	
Perforations	25.00			4000.02	
Bullnose	3.00			4003.02	129.02 Bottom Packers & Anchor
Total Tool Length:		157.02			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Ritter Family Farms #1

429 N Linden

29 4 27 Decatur KS

P O Box 292

Job Ticket: 28532

DST#: 3

Wahoo NE 68066

Test Start: 2007.05.24 @ 07:41:44

ATTN: Dan Blankenau

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

