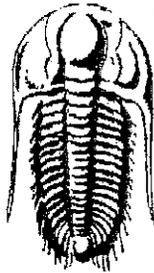


15-039-21007



**TRILOBITE
TESTING, INC.**

Great Plains Energy Inc

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**
PO Box 292
Wahoo NE 68066

Shields Trust #1

ATTN: Rich Bell

11 5 30 Decatur KS

11 5 30 Decatur KS

Shields Trust #1

Start Date: 2007.06.27 @ 16:01:18
End Date: 2007.06.27 @ 22:45:18
Job Ticket #: 27792 DST #: 1

DST # 1

15-039-21007
E2 NW NW
805 FNL 990 FWL

Toronto

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

2007.06.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy Inc

PO Box 292
Wahoo NE 68066

ATTN: Rich Bell

Shields Trust #1

11 5 30 Decatur KS

Job Ticket: 27792

DST#: 1

Test Start: 2007.06.27 @ 16:01:18

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 18:01:38
 Time Test Ended: 22:45:18

Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **22**

Interval: **3906.00 ft (KB) To 3948.00 ft (KB) (TVD)**
 Total Depth: **3948.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2881.00 ft (KB)**
2876.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **27.72 psig @ 3907.00 ft (KB)**

Start Date: **2007.06.27**

Start Time: **16:01:20**

End Date: **2007.06.27**

End Time: **22:45:18**

Capacity: **7000.00 psig**

Last Calib.: **2007.06.27**

Time On Btm: **2007.06.27 @ 18:01:28**

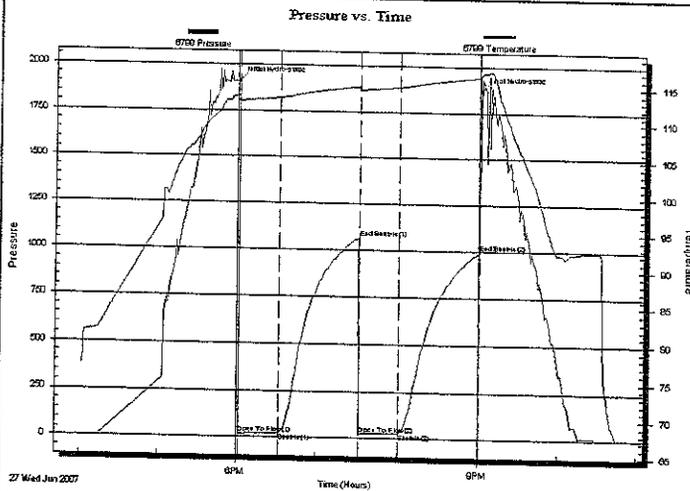
Time Off Btm: **2007.06.27 @ 21:01:28**

TEST COMMENT: IF Weak .25" blow died after 25 minutes.

ISI No blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

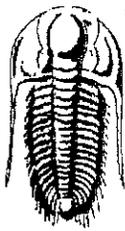
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.56	113.64	Initial Hydro-static
1	16.91	112.73	Open To Flow (1)
32	23.02	113.42	Shut-In(1)
91	1068.47	115.06	End Shut-In(1)
91	24.51	114.57	Open To Flow (2)
120	27.72	115.00	Shut-In(2)
180	993.27	116.42	End Shut-In(2)
180	1869.61	116.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOSM >1%O <99%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

Job Ticket: 27792

DST#: 1

ATTN: Rich Bell

Test Start: 2007.06.27 @ 16:01:18

Tool Information

Drill Pipe:	Length: 3782.00 ft	Diameter: 3.80 inches	Volume: 53.05 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.26 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.65 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3906.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3883.00	
Hydraulic tool	5.00			3888.00	
Jars	5.00			3893.00	
Safety Joint	3.00			3896.00	
Packer	5.00			3901.00	28.00 Bottom Of Top Packer
Packer	5.00			3906.00	
Stubb	1.00			3907.00	
Recorder	0.00	6799	Inside	3907.00	
Perforations	4.00			3911.00	
Blank Spacing	34.00			3945.00	
Recorder	0.00	3354	Outside	3945.00	
Bullnose	3.00			3948.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

ATTN: Rich Bell

Job Ticket: 27792

DST#: 1

Test Start: 2007.06.27 @ 16:01:18

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOSM >1%O <99%M	0.050

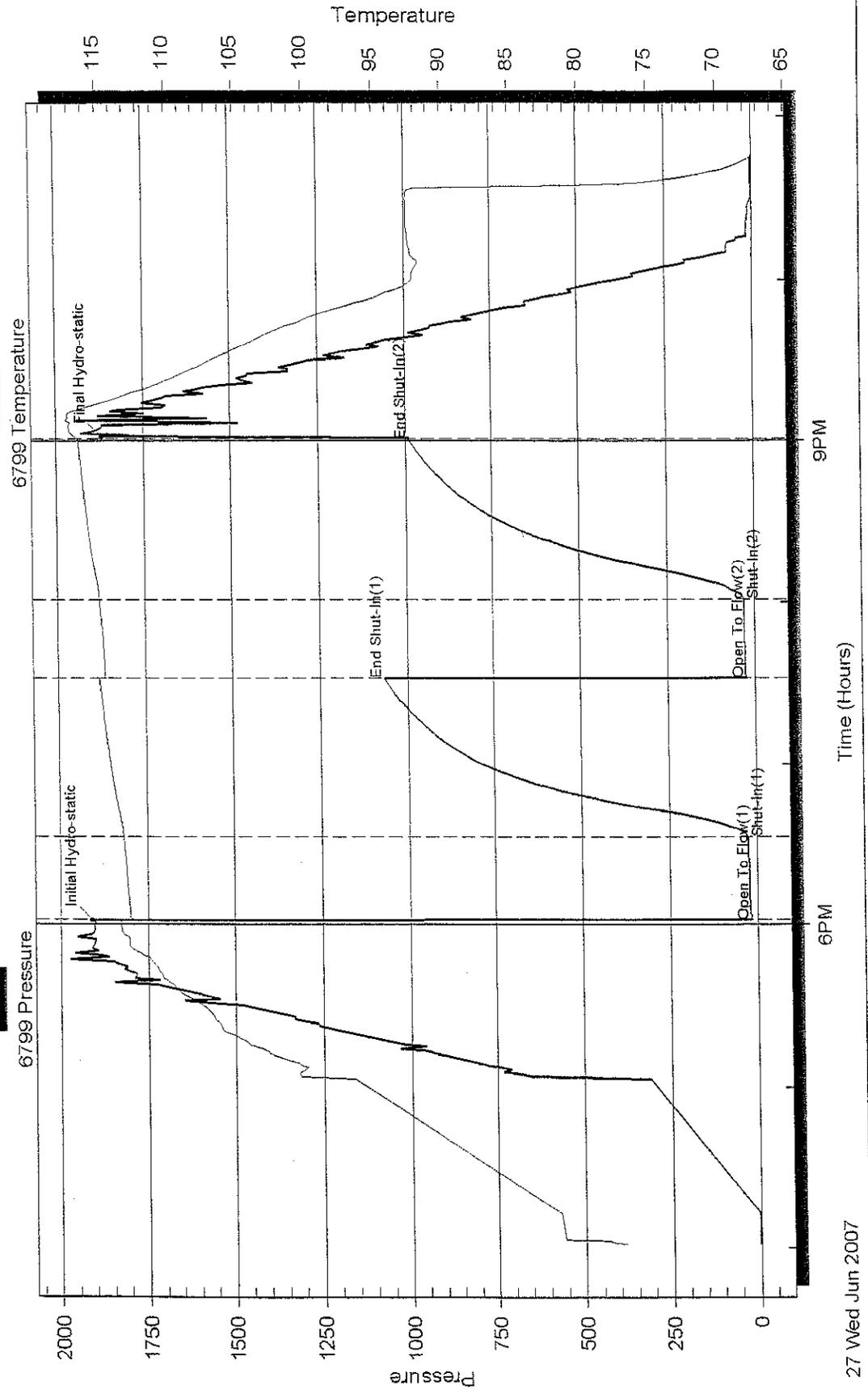
Total Length: 10.00 ft Total Volume: 0.050 bbl

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

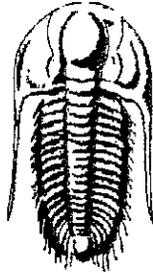
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



27 Wed Jun 2007



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292
Wahoo NE 68066

ATTN: Rich Bell

11 5 30 Decatur KS

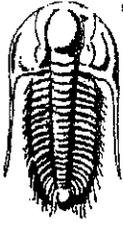
Shields Trust #1

Start Date: 2007.06.28 @ 09:14:04

End Date: 2007.06.28 @ 15:39:13

Job Ticket #: 27793 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

PO Box 292
Wahoo NE 68066

ATTN: Rich Bell

Shields Trust #1

11 5 30 Decatur KS

Job Ticket: 27793

DST#: 2

Test Start: 2007.06.28 @ 09:14:04

GENERAL INFORMATION:

Formation: **L, KC "B, C-D, E"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 10:51:04
 Time Test Ended: 15:39:13

Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **22**

Interval: **3967.00 ft (KB) To 4016.00 ft (KB) (TVD)**
 Total Depth: **4016.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2881.00 ft (KB)**
2876.00 ft (CF)
 KB to GR/CF: **5.00 ft**

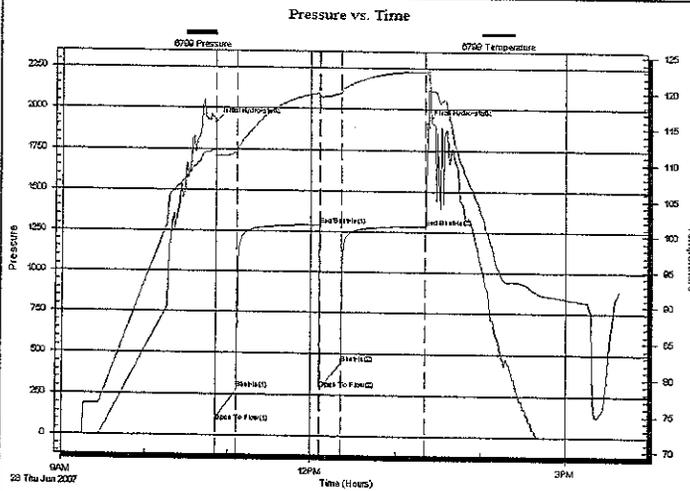
Serial #: 6799

Inside

Press@RunDepth: **441.30 psig @ 3968.00 ft (KB)**
 Start Date: **2007.06.28** End Date: **2007.06.28**
 Start Time: **09:14:06** End Time: **15:39:14**

Capacity: **7000.00 psig**
 Last Calib.: **2007.06.28**
 Time On Btm: **2007.06.28 @ 10:50:44**
 Time Off Btm: **2007.06.28 @ 13:21:54**

TEST COMMENT: IF Strong blow BOB 3.5 minutes.
 ISI Bled off Weak blowback @ .25" in bucket
 FF Strong blow BOB 3.5 minutes
 FSI Bled off no blow back



PRESSURE SUMMARY

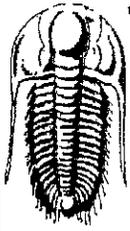
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.44	111.87	Initial Hydro-static
1	85.50	111.24	Open To Flow (1)
16	281.84	111.62	Shut-In (1)
76	1292.70	119.83	End Shut-In (1)
76	284.56	119.41	Open To Flow (2)
91	441.30	119.86	Shut-In (2)
150	1289.13	122.92	End Shut-In (2)
152	1912.81	123.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	Salt Water 100%SW	6.49
240.00	Muddy Wtr. 40%M 60%W	3.37
120.00	Wtry Mud. 40%W 60%M	1.68
0.00	RW= .16 OHMS@93degF=34,000ppmCHL0.00	

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

ATTN: Rich Bell

Job Ticket: 27793 DST#: 2

Test Start: 2007.06.28 @ 09:14:04

Tool Information

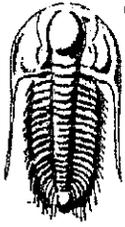
Drill Pipe:	Length: 3844.00 ft	Diameter: 3.80 inches	Volume: 53.92 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.26 inches	Volume: 0.60 bbl	Weight to Pull Loose: 96000.00 lb
		Total Volume: 54.52 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3967.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3944.00	
Hydraulic tool	5.00			3949.00	
Jars	5.00			3954.00	
Safety Joint	3.00			3957.00	
Packer	5.00			3962.00	28.00 Bottom Of Top Packer
Packer	5.00			3967.00	
Stubb	1.00			3968.00	
Recorder	0.00	6799	Inside	3968.00	
Perforations	13.00			3981.00	
Blank Spacing	32.00			4013.00	
Recorder	0.00	3354	Outside	4013.00	
Bullnose	3.00			4016.00	49.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

Job Ticket: 27793

DST#: 2

ATTN: Rich Bell

Test Start: 2007.06.28 @ 09:14:04

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	Salt Water 100%SW	6.487
240.00	Muddy Wtr. 40%M 60%W	3.367
120.00	Wtry Mud. 40%W 60%M	1.683
0.00	RV=.16 OHMS@93degF=34,000ppmCHL	0.000

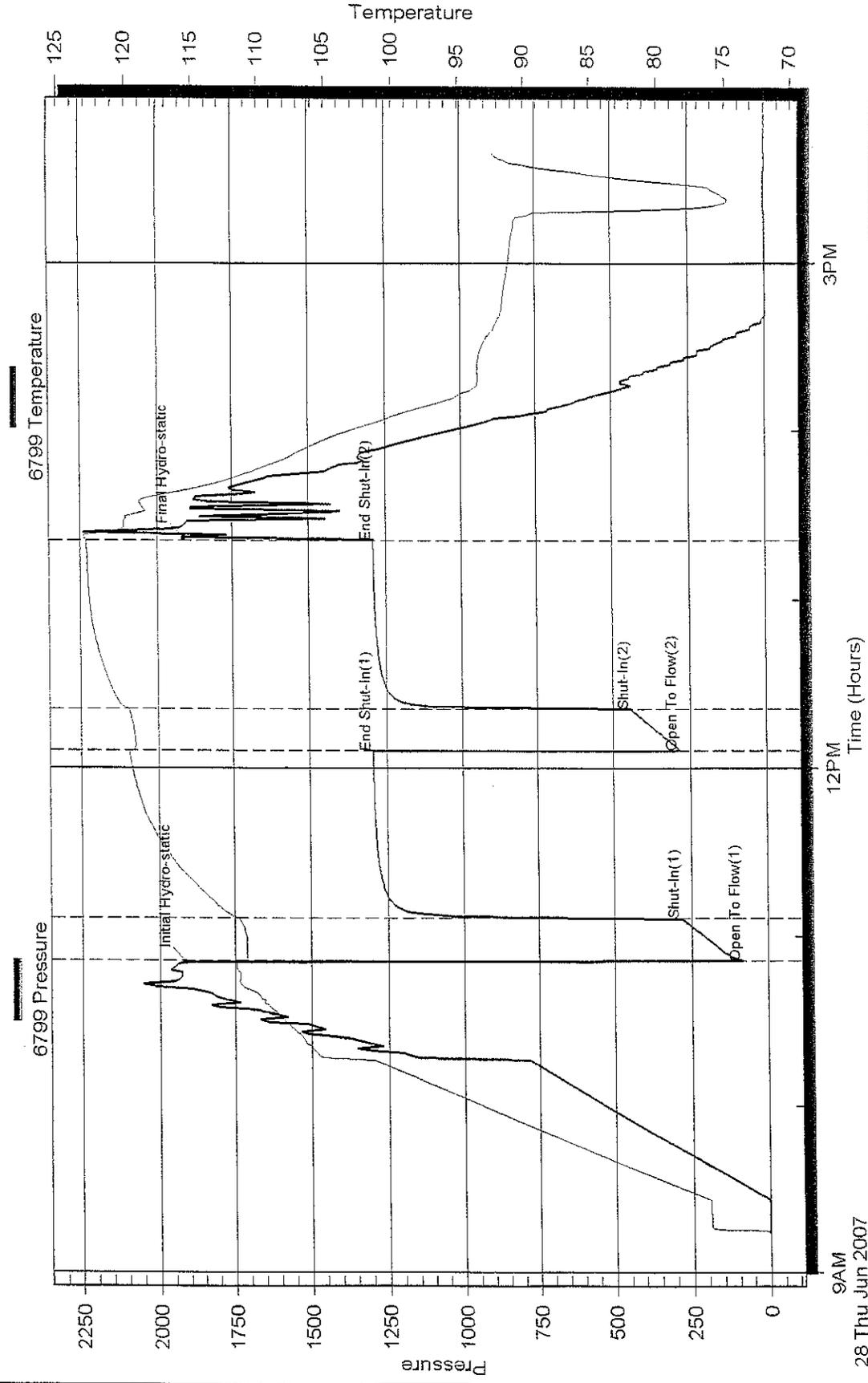
Total Length: 900.00 ft Total Volume: 11.537 bbl

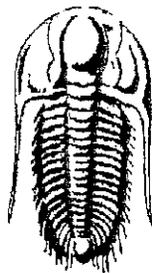
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292
Wahoo NE 68066

ATTN: Rich Bell

11 5 30 Decatur KS

Shields Trust #1

Start Date: 2007.06.29 @ 02:05:36

End Date: 2007.06.29 @ 09:34:06

Job Ticket #: 27794 DST #: 3

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

Great Plains Energy Inc

Shields Trust #1

11 5 30 Decatur KS

DST # 3

L,K,C "F,G,H"

2007.06.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

Job Ticket: 27794

DST#: 3

ATTN: Rich Bell

Test Start: 2007.06.29 @ 02:05:36

GENERAL INFORMATION:

Formation: **L,KC "F,G,H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:46

Time Test Ended: 09:34:06

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4014.00 ft (KB) To 4085.00 ft (KB) (TVD)**

Total Depth: 4085.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2881.00 ft (KB)

2876.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 206.92 psig @ 4015.00 ft (KB)

Start Date: 2007.06.29

End Date:

2007.06.29

Capacity: 7000.00 psig

Last Calb.: 2007.06.29

Start Time: 02:05:38

End Time:

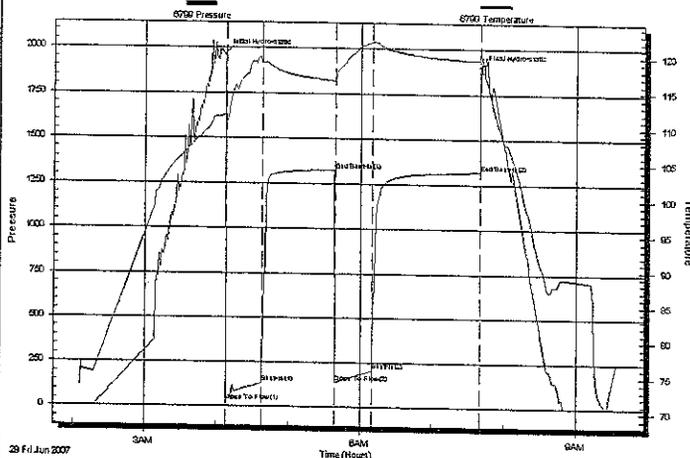
09:34:06

Time On Btm: 2007.06.29 @ 04:07:26

Time Off Btm: 2007.06.29 @ 07:40:25

TEST COMMENT: IF Fairly strong blow built to BOB in 16 minutes.
ISI Bled off no blow back
FF Fairly strong blow built to BOB in 24 minutes.
FSI Bled off no blow back

Pressure vs. Time



PRESSURE SUMMARY

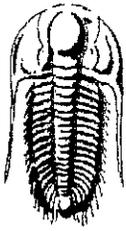
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.39	111.73	Initial Hydro-static
1	28.23	110.85	Open To Flow (1)
31	133.91	119.01	Shut-In (1)
92	1325.45	116.57	End Shut-In (1)
92	139.74	116.38	Open To Flow (2)
123	206.92	122.02	Shut-In (2)
213	1317.11	119.55	End Shut-In (2)
213	1896.69	119.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Watery Mud 50%W 50%M	0.55
90.00	WCM 20%W 80%M	1.17
220.00	Drig Mud w/Oil trace 100%O	3.09
0.00	RW=.19 OHMS@70degF=38500ppmCh	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

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

ATTN: Rich Bell

Job Ticket: 27794

DST#: 3

Test Start: 2007.06.29 @ 02:05:36

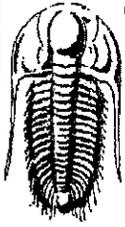
Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 bbl	Tool Weight:	2500.00 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: 2.26 inches	Volume: 0.60 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 54.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4014.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.00 ft				
Tool Length:	99.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3991.00	
Hydraulic tool	5.00			3996.00	
Jars	5.00			4001.00	
Safety Joint	3.00			4004.00	
Packer	5.00			4009.00	28.00 Bottom Of Top Packer
Packer	5.00			4014.00	
Stubb	1.00			4015.00	
Recorder	0.00	6799	Inside	4015.00	
Perforations	34.00			4049.00	
Blank Spacing	33.00			4082.00	
Recorder	0.00	10270	Outside	4082.00	
Bullnose	3.00			4085.00	71.00 Bottom Packers & Anchor
Total Tool Length:	99.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

Job Ticket: 27794

DST#: 3

ATTN: Rich Bell

Test Start: 2007.06.29 @ 02:05:36

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Watery Mud 50%W 50%M	0.546
90.00	WCM 20%W 80%M	1.172
220.00	Drig Mud w/Oil trace 100%O	3.086
0.00	RW= .19 OHMS@70degF=38500ppmChl	0.000

Total Length: 420.00 ft

Total Volume: 4.804 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

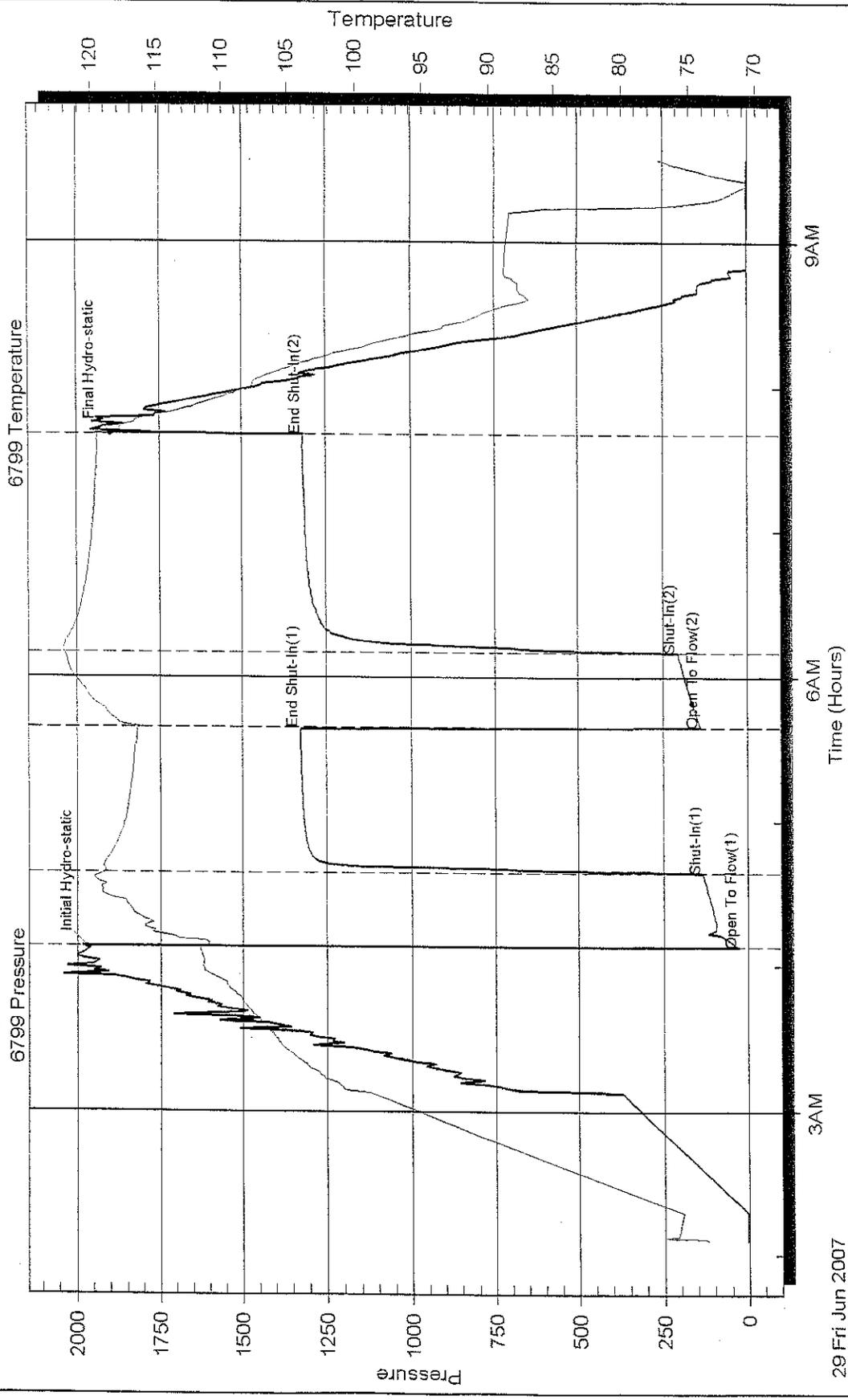
Serial #:

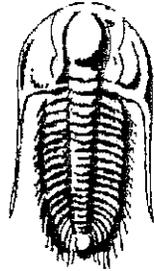
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292
Wahoo NE 68066

ATTN: Rich Bell

11 5 30 Decatur KS

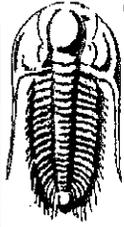
Shields Trust #1

Start Date: 2007.06.29 @ 18:56:56

End Date: 2007.06.30 @ 02:02:26

Job Ticket #: 27795 DST #: 4

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: Rich Bell

Shields Trust #1

11 5 30 Decatur KS

Job Ticket: 27795 DST#: 4

Test Start: 2007.06.29 @ 18:56:56

GENERAL INFORMATION:

Formation: **L, KC "J&K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:47:26

Time Test Ended: 02:02:26

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4085.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Total Depth: 4150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2881.00 ft (KB)

2876.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 23.96 psig @ 4086.00 ft (KB)

Start Date: 2007.06.29

End Date:

2007.06.30

Start Time: 18:56:58

End Time:

02:02:26

Capacity: 7000.00 psig

Last Calib.: 2007.06.30

Time On Btm: 2007.06.29 @ 20:47:06

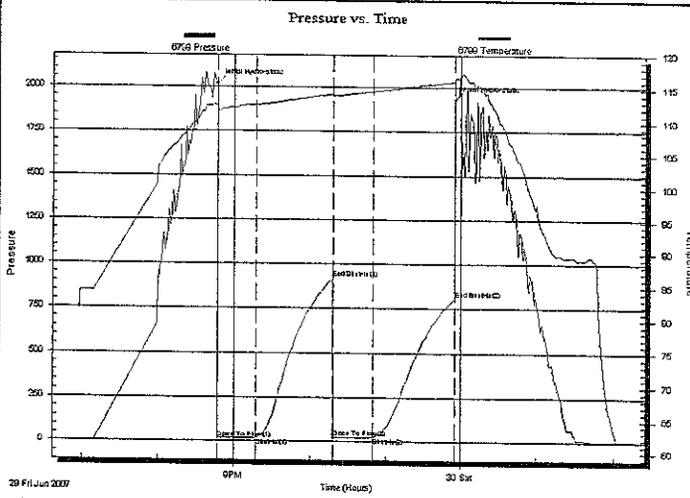
Time Off Btm: 2007.06.29 @ 23:56:06

TEST COMMENT: IF Weak blow built to .25" in 9 minutes dead blow after 15 minutes.

ISI No blow

FF No Blow

FSI No Blow



PRESSURE SUMMARY

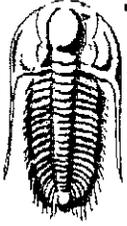
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.23	112.48	Initial Hydro-static
1	15.92	111.43	Open To Flow (1)
31	21.11	112.52	Shut-In (1)
91	916.09	114.18	End Shut-In (1)
91	22.04	113.87	Open To Flow (2)
123	23.96	114.60	Shut-In (2)
189	805.92	116.10	End Shut-In (2)
189	1928.24	116.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOSM >1%O <99%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

Job Ticket: 27795

DST#: 4

ATTN: Rich Bell

Test Start: 2007.06.29 @ 18:56:56

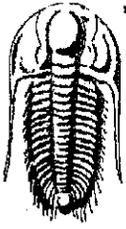
Tool Information

Drill Pipe:	Length: 3968.00 ft	Diameter: 3.80 inches	Volume: 55.66 bbl	Tool Weight: 2500.00 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: 2.26 inches	Volume: 0.60 bbl	Weight to Pull Loose: 98000.00 lb
			Total Volume: 56.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4085.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut in Tool	5.00			4062.00	
Hydraulic tool	5.00			4067.00	
Jars	5.00			4072.00	
Safety Joint	3.00			4075.00	
Packer	5.00			4080.00	28.00 Bottom Of Top Packer
Packer	5.00			4085.00	
Stubb	1.00			4086.00	
Recorder	0.00	6799	Inside	4086.00	
Perforations	28.00			4114.00	
Blank Spacing	33.00			4147.00	
Recorder	0.00	3354	Outside	4147.00	
Bullnose	3.00			4150.00	65.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

ATTN: Rich Bell

Job Ticket: 27795

DST#: 4

Test Start: 2007.06.29 @ 18:56:56

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SOSM >1%O <99%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

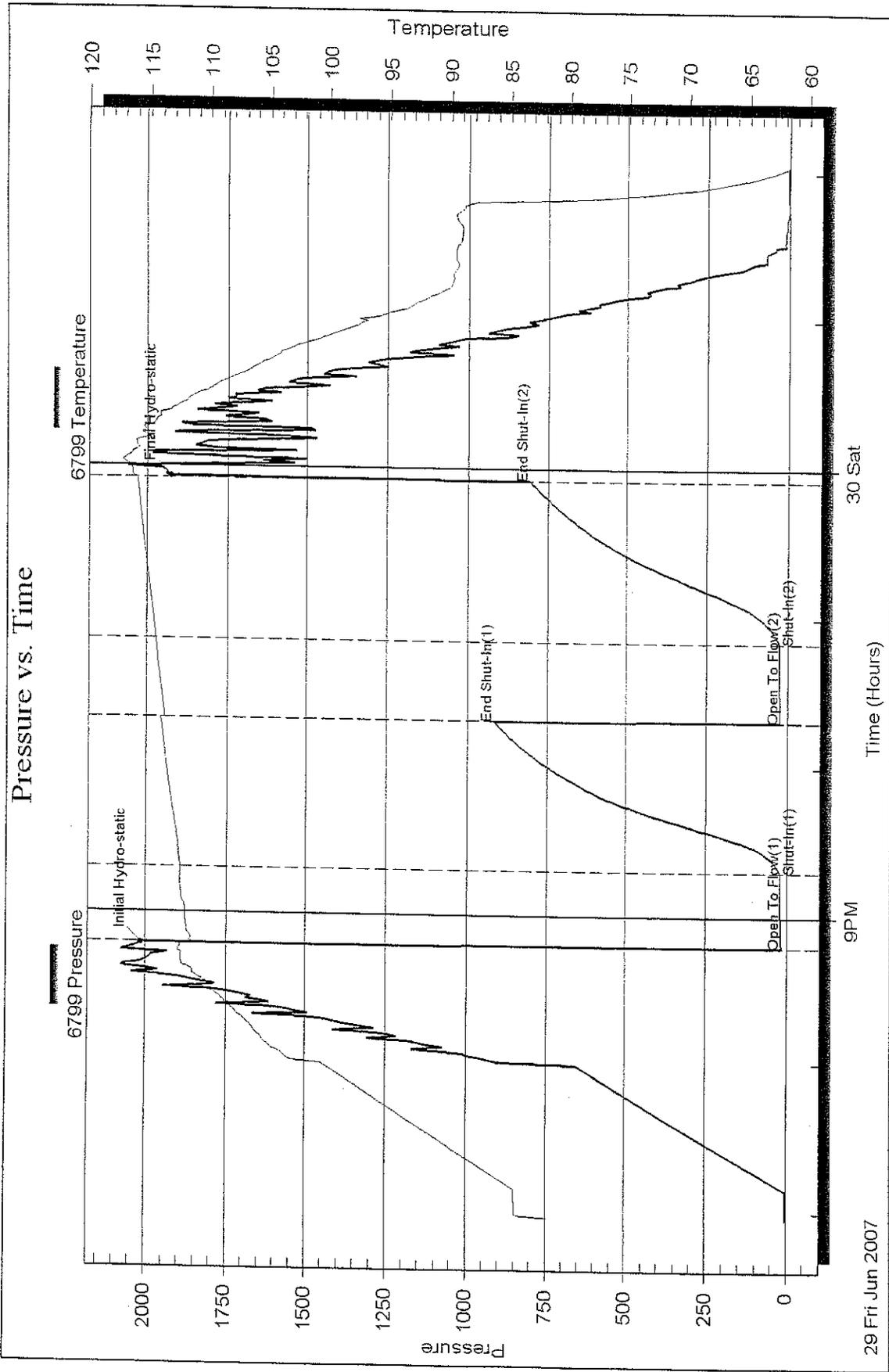
Serial #:

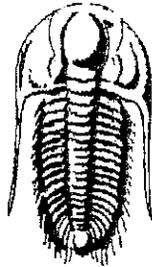
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy Inc**

PO Box 292
Wahoo NE 68066

ATTN: Rich Bell

11 5 30 Decatur KS

Shields Trust #1

Start Date: 2007.06.30 @ 19:20:45

End Date: 2007.07.01 @ 02:45:24

Job Ticket #: 27796 DST #: 5

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

Great Plains Energy Inc

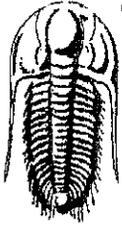
Shields Trust #1

11 5 30 Decatur KS

DST # 5

L.K.C "E"

2007.06.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

Job Ticket: 27796 **DST#: 5**

ATTN: Rich Bell

Test Start: 2007.06.30 @ 19:20:45

GENERAL INFORMATION:

Formation: **L, KC "F"**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 21:21:25
 Time Test Ended: 02:45:24

Test Type: Conventional Straddle
 Tester: Jake Fahrenbruch
 Unit No: 22

Interval: **4008.00 ft (KB) To 4036.00 ft (KB) (TVD)**
 Total Depth: **4020.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2881.00 ft (KB)**
2876.00 ft (CF)
 KB to GR/CF: **5.00 ft**

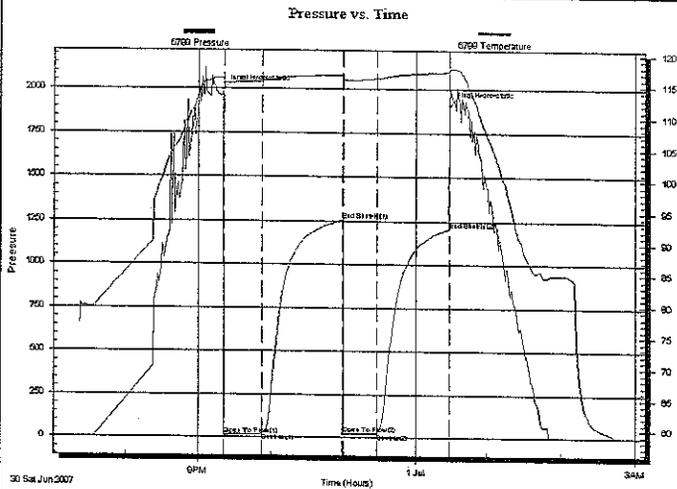
Serial #: 6799

Inside

Press@RunDepth: 26.37 psig @ 4009.00 ft (KB)
 Start Date: 2007.06.30 End Date: 2007.07.01
 Start Time: 19:20:47 End Time: 02:45:25

Capacity: 7000.00 psig
 Last Calib.: 2007.07.01
 Time On Btm: 2007.06.30 @ 21:21:05
 Time Off Btm: 2007.07.01 @ 00:28:35

TEST COMMENT: IF Weak blow @ .5 " in 10 minutes. Dead blow after 25 minutes.
 ISI No blow back
 FF No blow
 FSI No blow back



PRESSURE SUMMARY

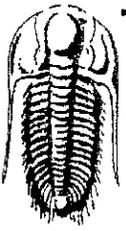
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.05	116.28	Initial Hydro-static
1	15.15	115.60	Open To Flow (1)
32	21.95	115.82	Shut-In (1)
98	1257.28	116.82	End Shut-In (1)
98	22.70	116.30	Open To Flow (2)
126	26.37	116.33	Shut-In (2)
187	1206.78	117.33	End Shut-In (2)
188	1906.33	117.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

ATTN: Rich Bell

Job Ticket: 27796

DST#: 5

Test Start: 2007.06.30 @ 19:20:45

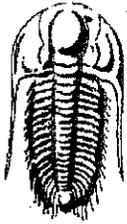
Tool Information

Drill Pipe:	Length: 3874.00 ft	Diameter: 3.80 inches	Volume: 54.34 bbl	Tool Weight: 3500.00 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: 120.00 ft	Diameter: 2.26 inches	Volume: 0.60 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4008.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	4036.00 ft			
Interval between Packers:	28.00 ft			
Tool Length:	240.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3985.00	
Hydraulic tool	5.00			3990.00	
Jars	5.00			3995.00	
Safety Joint	3.00			3998.00	
Packer	5.00			4003.00	28.00 Bottom Of Top Packer
Packer	5.00			4008.00	
Stubb	1.00			4009.00	
Recorder	0.00	6799	Inside	4009.00	
Perforations	24.00			4033.00	
Recorder	0.00	3354	Outside	4033.00	
Blank Off Sub	3.00			4036.00	28.00 Tool Interval
Packer	3.00			4039.00	
Perforations	20.00			4059.00	
Blank Spacing	158.00			4217.00	
Recorder	0.00	10270	Fluid	4217.00	
Bullnose	3.00			4220.00	184.00 Bottom Packers & Anchor
Total Tool Length:	240.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

Shields Trust #1

PO Box 292
Wahoo NE 68066

11 5 30 Decatur KS

ATTN: Rich Bell

Job Ticket: 27796

DST#: 5

Test Start: 2007.06.30 @ 19:20:45

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

Inside

Great Plains Energy Inc

11 5 30 Decatur KS

DST Test Number: 5

