

6-17s-32w

IND

KGS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: Great PlainsEnergy Inc

PO Box 292 Wahoo, NE 68066

15-171-20701-0000

ATTN: Dan Blankaneu

6 17s 32w Scott KS

Bruce Wilken

Start Date: 2008.07.27 @ 10:15:05

End Date: 2008.07.27 @ 16:50:00

Job Ticket #: 31394 DST #: 1

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SEP 23 2008

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Great PlainsEnergy Inc

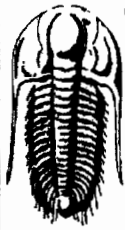
Bruce Wilken

6 17s 32w Scott KS

DST # 1

E

2008.07.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great PlainsEnergy Inc
 PO Box 292 Wahoo, NE 68066
 ATTN: Dan Blankaneu

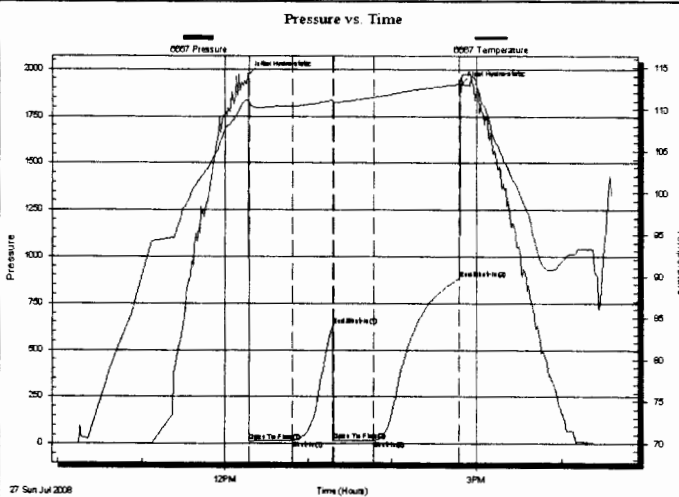
Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31394 **DST#: 1**
 Test Start: 2008.07.27 @ 10:15:05

GENERAL INFORMATION:

Formation: **E**
 Deviated: **No** Whipstock: **ft (KB)**
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **12:17:00**
 Tester: **Shane McBride**
 Time Test Ended: **16:50:00**
 Unit No: **40**
 Interval: **4048.00 ft (KB) To 4070.00 ft (KB) (TVD)**
 Reference Elevations: **2976.00 ft (KB)**
 Total Depth: **4070.00 ft (KB) (TVD)**
2971.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 6667 **Inside**
 Press@RunDepth: **16.09 psig @ 4049.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2008.07.27** End Date: **2008.07.27** Last Calib.: **2008.07.27**
 Start Time: **10:15:05** End Time: **16:35:29** Time On Btm: **2008.07.27 @ 12:16:45**
 Time Off Btm: **2008.07.27 @ 14:48:30**

TEST COMMENT: Weak blow died in 10 min
 No return
 No blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.86	111.05	Initial Hydro-static
1	13.36	110.65	Open To Flow (1)
33	14.98	110.41	Shut-In(1)
62	631.54	111.10	End Shut-In(1)
62	15.17	110.80	Open To Flow (2)
91	16.09	111.44	Shut-In(2)
152	883.43	113.01	End Shut-In(2)
152	1915.01	113.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

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
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31394 **DST#: 1**
Test Start: 2008.07.27 @ 10:15:05

Tool Information

Drill Pipe:	Length: 3914.00 ft	Diameter: 3.80 inches	Volume: 54.90 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	55.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4048.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4022.00	
Shut In Tool	5.00			4027.00	
Hydraulic tool	5.00			4032.00	
Jars	5.00			4037.00	
Safety Joint	2.00			4039.00	
Packer	5.00			4044.00	27.00 Bottom Of Top Packer
Packer	4.00			4048.00	
Stubb	1.00			4049.00	
Recorder	0.00	6667	Inside	4049.00	
Recorder	0.00	6771	Outside	4049.00	
Perforations	16.00			4065.00	
Bullnose	5.00			4070.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31394 **DST#: 1**
Test Start: 2008.07.27 @ 10:15:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.92 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6667

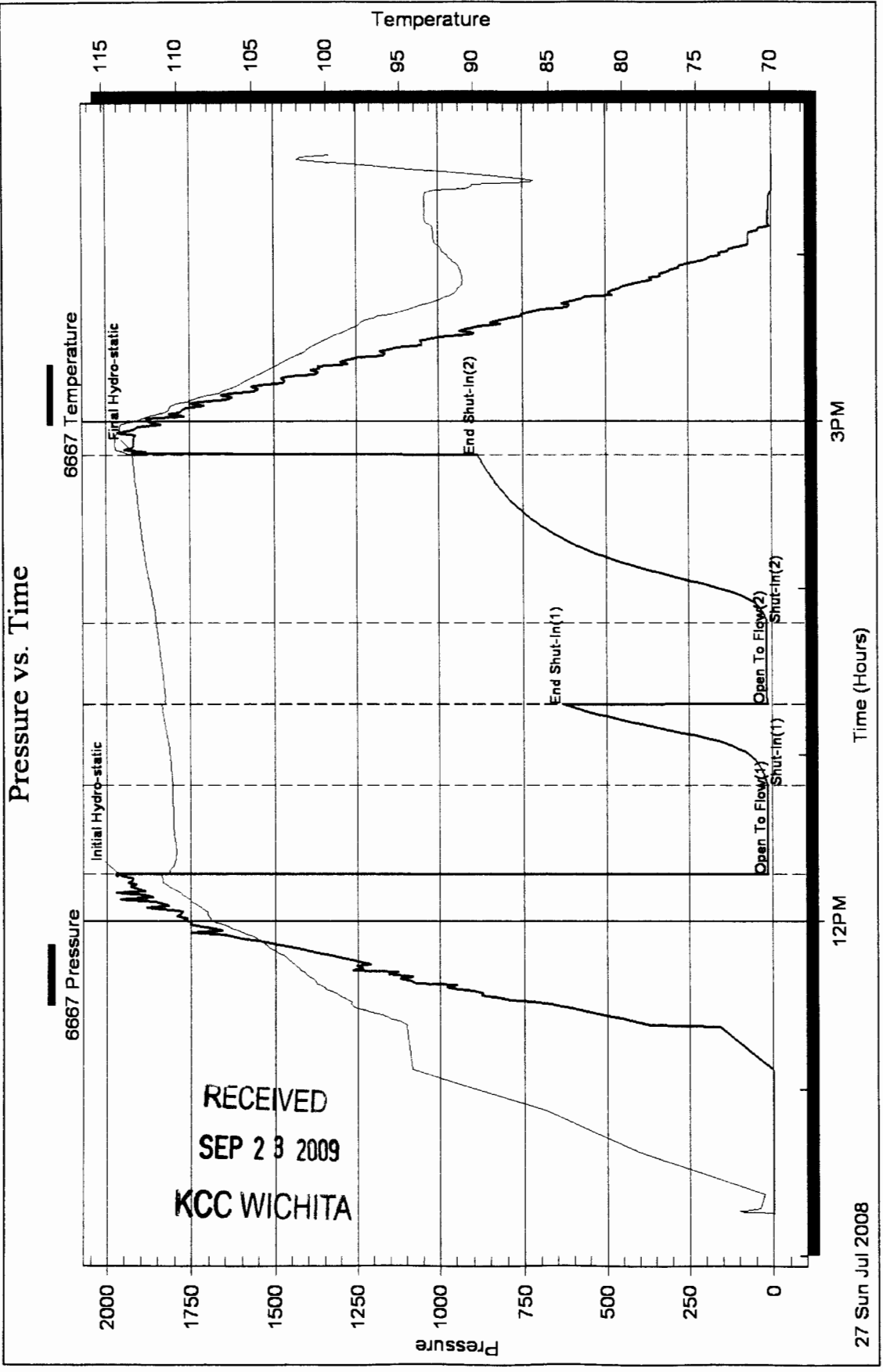
Inside

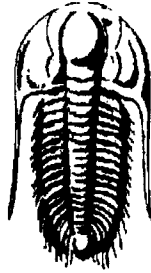
Great Plains Energy Inc

6 17s 32w Scott KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great PlainsEnergy Inc**
PO Box 292 Wahoo, NE 68066

ATTN: Dan Blankaneu

6 17s 32w Scott KS

Bruce Wilken

Start Date: 2008.07.28 @ 17:26:12

End Date: 2008.07.29 @ 00:08:57

Job Ticket #: 31395 DST #: 2

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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 PlainsEnergy Inc
 PO Box 292 Wahoo, NE 68066
 ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31395 **DST#: 2**
 Test Start: 2008.07.28 @ 17:26:12

GENERAL INFORMATION:

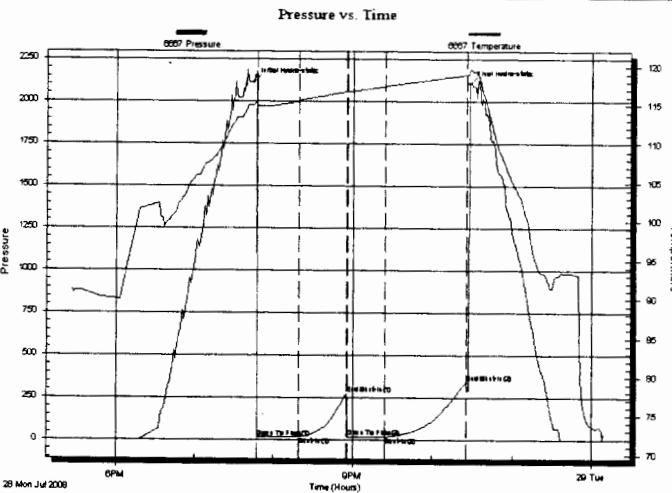
Formation: **Altamont A B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 19:47:12
 Tester: Shane McBride\Kyle W
 Time Test Ended: 00:08:57
 Unit No: 40
 Interval: **4392.00 ft (KB) To 4446.00 ft (KB) (TVD)**
 Reference Elevations: 2976.00 ft (KB)
 Total Depth: 4070.00 ft (KB) (TVD)
 2971.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6667

Inside

Press@RunDepth: 19.27 psig @ 4393.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.28 End Date: 2008.07.29 Last Calib.: 2008.07.29
 Start Time: 17:26:17 End Time: 00:08:56 Time On Btm: 2008.07.28 @ 19:44:27
 Time Off Btm: 2008.07.28 @ 22:27:12

TEST COMMENT: IF WEAK SURFACE BLOW DIED 15 MIN
 IS NO RETURN
 FF NO BLOW
 FS NO RETURN



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.86	115.05	Initial Hydro-static
3	12.87	113.98	Open To Flow (1)
35	18.61	115.49	Shut-In(1)
71	276.90	116.78	End Shut-In(1)
71	18.49	116.71	Open To Flow (2)
100	19.27	117.45	Shut-In(2)
161	344.55	118.95	End Shut-In(2)
163	2105.17	119.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil specks	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy Inc

Bruce Wilken

PO Box 292 Wahoo, NE 68066

6 17s 32w Scott KS

Job Ticket: 31395

DST#: 2

ATTN: Dan Blankaneu

Test Start: 2008.07.28 @ 17:26:12

Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 4.50 inches	Volume: 83.74 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	84.34 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4392.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4366.00	
Shut In Tool	5.00			4371.00	
Hydraulic tool	5.00			4376.00	
Jars	5.00			4381.00	
Safety Joint	2.00			4383.00	
Packer	5.00			4388.00	27.00 Bottom Of Top Packer
Packer	4.00			4392.00	
Stubb	1.00			4393.00	
Recorder	0.00	6667	Inside	4393.00	
Recorder	0.00	6771	Outside	4393.00	
Perforations	15.00			4408.00	
Change Over Sub	1.00			4409.00	
Blank Spacing	31.00			4440.00	
Change Over Sub	1.00			4441.00	
Bullnose	5.00			4446.00	54.00 Bottom Packers & Anchor
Total Tool Length:	81.00				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31395 **DST#: 2**
Test Start: 2008.07.28 @ 17:26:12

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.94 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

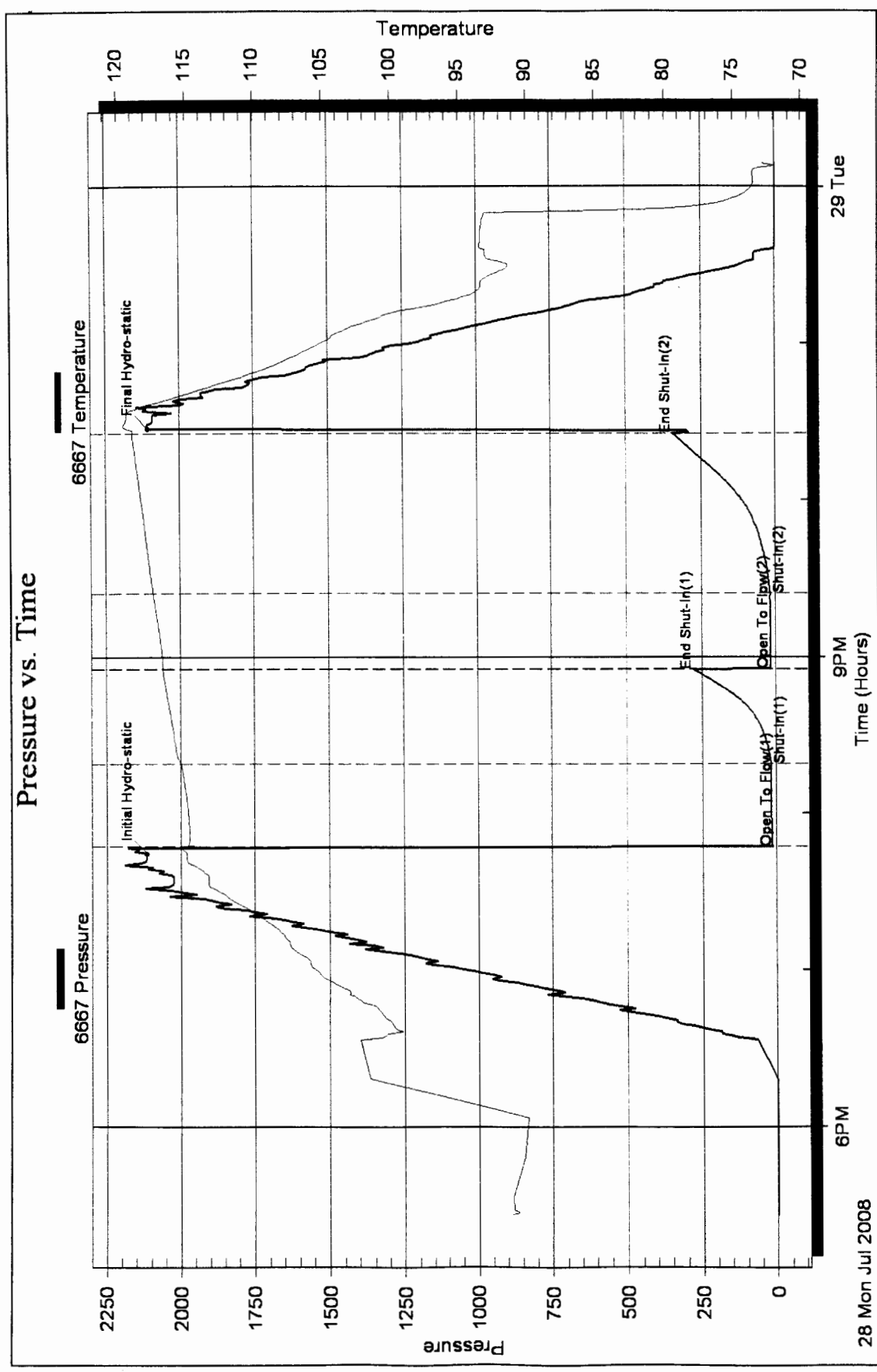
Recovery Information

Recovery Table

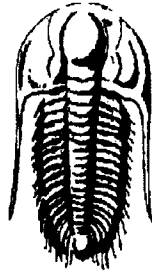
Length ft	Description	Volume bbl
5.00	mud w ith oil specks	0.025

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



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great PlainsEnergy Inc**

PO Box 292 Wahoo, NE 68066

ATTN: Dan Blankaneu

6 17s 32w Scott KS

Bruce Wilken

Start Date: 2008.07.29 @ 12:49:32

End Date: 2008.07.29 @ 19:57:32

Job Ticket #: 31396 DST #: 3

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PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great PlainsEnergy Inc
 PO Box 292 Wahoo, NE 68066
 ATTN: Dan Blankaneu

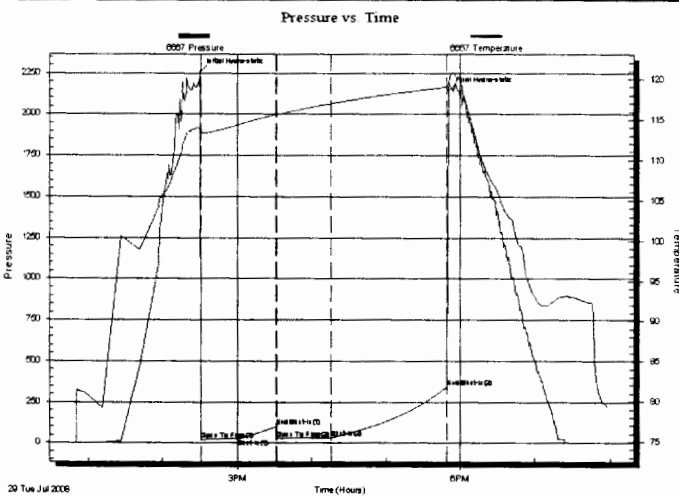
Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31396 **DST#: 3**
 Test Start: 2008.07.29 @ 12:49:32

GENERAL INFORMATION:

Formation: **Myric Stn Fort Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 14:31:02 Tester: Kyle Wiley
 Time Test Ended: 19:57:32 Unit No: 40
 Interval: **4477.00 ft (KB) To 4555.00 ft (KB) (TVD)** Reference Elevations: 2976.00 ft (KB)
 Total Depth: 4555.00 ft (KB) (TVD) 2971.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6667 Inside
 Press@RunDepth: 32.88 psig @ 4478.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.29 End Date: 2008.07.29 Last Calib.: 2008.07.29
 Start Time: 12:49:37 End Time: 19:57:31 Time On Btm: 2008.07.29 @ 14:30:17
 Time Off Btm: 2008.07.29 @ 17:50:32

TEST COMMENT: IF Built to 2'
 IS No return
 FF Built to 4'
 FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.35	113.96	Initial Hydro-static
1	19.32	113.28	Open To Flow (1)
30	28.37	114.34	Shut-In(1)
62	100.09	115.64	End Shut-In(1)
62	24.73	115.62	Open To Flow (2)
106	32.88	116.97	Shut-In(2)
200	344.31	119.06	End Shut-In(2)
201	2144.72	119.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 10% g 1 5% o 75% m	0.15
0.00	100' GIP	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
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31396 **DST#: 3**
Test Start: 2008.07.29 @ 12:49:32

Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.80 inches	Volume: 61.02 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	61.62 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4477.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4451.00	
Shut In Tool	5.00			4456.00	
Hydraulic tool	5.00			4461.00	
Jars	5.00			4466.00	
Safety Joint	2.00			4468.00	
Packer	5.00			4473.00	27.00 Bottom Of Top Packer
Packer	4.00			4477.00	
Stubb	1.00			4478.00	
Recorder	0.00	6667	Inside	4478.00	
Recorder	0.00	6771	Outside	4478.00	
Perforations	4.00			4482.00	
Change Over Sub	1.00			4483.00	
Blank Spacing	61.00			4544.00	
Change Over Sub	1.00			4545.00	
Perforations	10.00			4555.00	
Bullnose	5.00			4560.00	83.00 Bottom Packers & Anchor
Total Tool Length:	110.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31396 **DST#: 3**
Test Start: 2008.07.29 @ 12:49:32

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.92 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 1.00 inches			

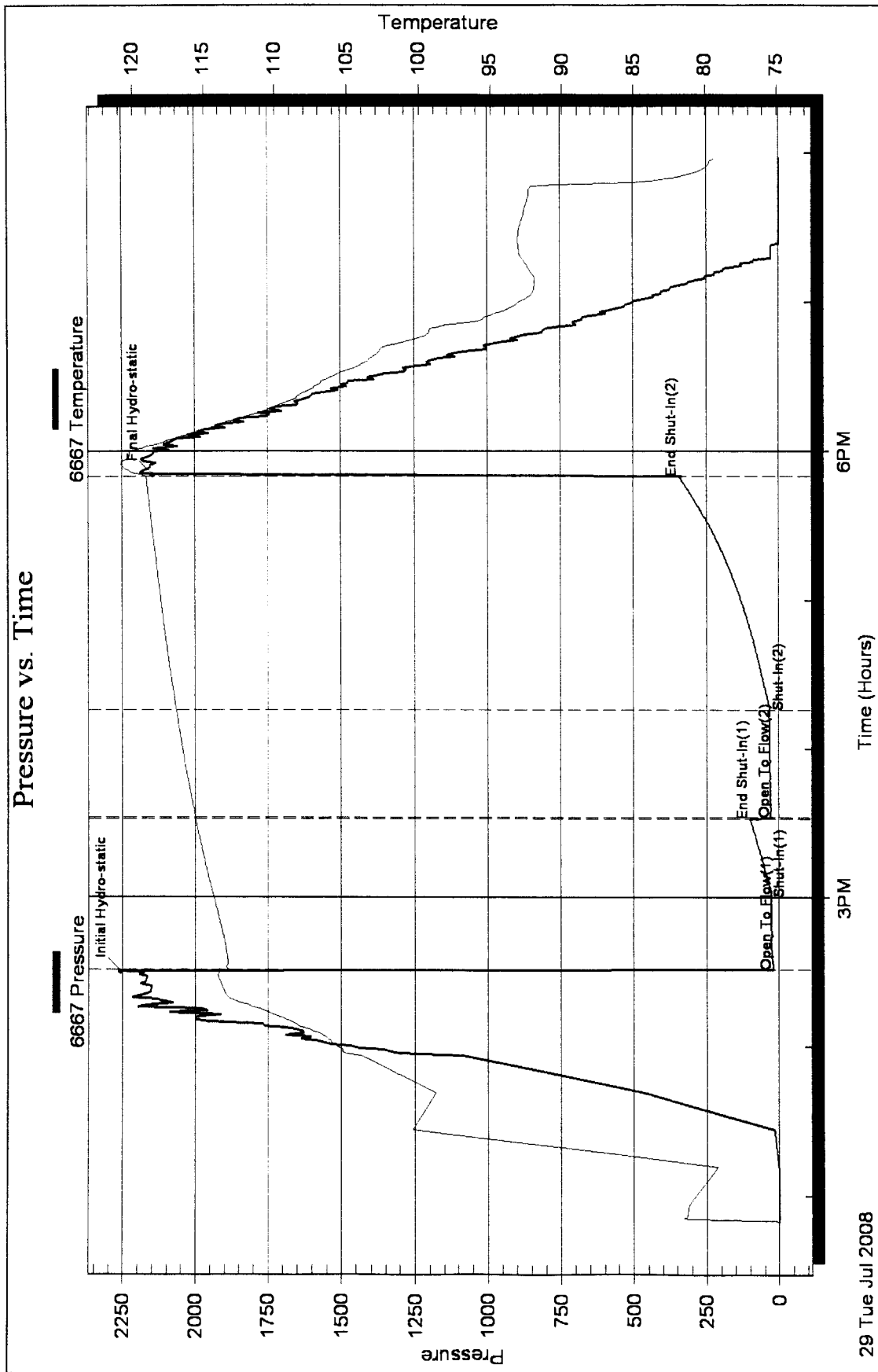
Recovery Information

Recovery Table

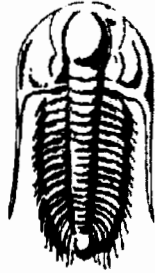
Length ft	Description	Volume bbl
30.00	GOCM 10% g 1 5% o 75% m	0.148
0.00	100' GIP	0.000

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:

Pressure vs. Time



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great PlainsEnergy Inc**

PO Box 292 Wahoo, NE 68066

ATTN: Dan Blankaneu

6 17s 32w Scott KS

Bruce Wilken

Start Date: 2008.07.30 @ 06:06:50

End Date: 2008.07.30 @ 13:53:05

Job Ticket #: 31397 DST #: 4

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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 PlainsEnergy Inc
 PO Box 292 Wahoo, NE 68066
 ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31397 **DST#: 4**
 Test Start: 2008.07.30 @ 06:06:50

GENERAL INFORMATION:

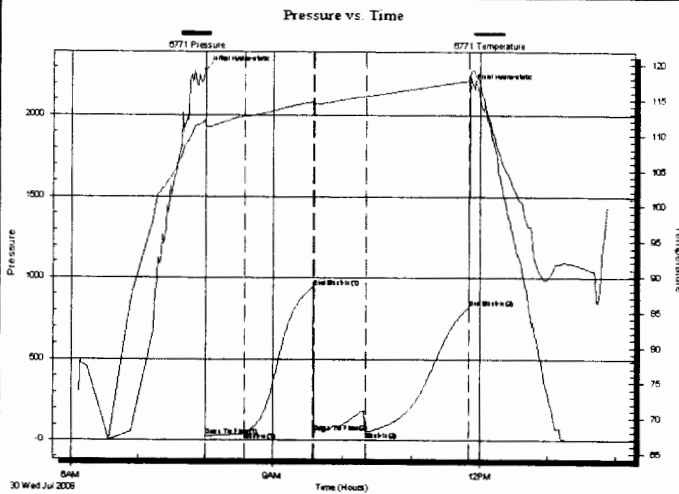
Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:00:20
 Time Test Ended: 13:53:05
 Interval: **4546.00 ft (KB) To 4631.00 ft (KB) (TVD)**
 Total Depth: 4631.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Kyle Wiley
 Unit No: 40
 Reference Elevations: 2976.00 ft (KB)
 2971.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

Outside

Press@RunDepth: 55.02 psig @ 4564.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.30 End Date: 2008.07.30 Last Calib.: 2008.07.30
 Start Time: 06:06:55 End Time: 13:53:04 Time On Btm: 2008.07.30 @ 08:00:05
 Time Off Btm: 2008.07.30 @ 11:51:05

TEST COMMENT: IF Built to 1"
 IS No return
 FF No blow
 FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.28	112.04	Initial Hydro-static
1	25.29	111.35	Open To Flow (1)
35	47.66	112.65	Shut-In(1)
94	942.74	114.72	End Shut-In(1)
95	51.36	114.46	Open To Flow(2)
140	55.02	115.49	Shut-In(2)
230	818.41	117.68	End Shut-In(2)
231	2171.07	118.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	sl oil cut mud 5% oil 95% mud	0.32

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
 ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31397 **DST#: 4**
 Test Start: 2008.07.30 @ 06:06:50

Tool Information

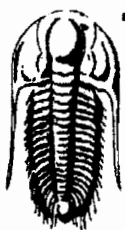
Drill Pipe:	Length: 4472.00 ft	Diameter: 3.80 inches	Volume: 62.73 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume: 63.33 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	76.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4546.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	85.00 ft				
Tool Length:	112.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4520.00	
Shut In Tool	5.00			4525.00	
Hydraulic tool	5.00			4530.00	
Jars	5.00			4535.00	
Safety Joint	2.00			4537.00	
Packer	5.00			4542.00	27.00 Bottom Of Top Packer
Packer	4.00			4546.00	
Stubb	1.00			4547.00	
Perforations	16.00			4563.00	
Change Over Sub	1.00			4564.00	
Recorder	0.00	6667	Inside	4564.00	
Recorder	0.00	6771	Outside	4564.00	
Blank Spacing	61.00			4625.00	
Change Over Sub	1.00			4626.00	
Bullnose	5.00			4631.00	85.00 Bottom Packers & Anchor

Total Tool Length: 112.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31397 **DST#: 4**
Test Start: 2008.07.30 @ 06:06:50

Mud and Cushion Information

Mud Type: Polymer	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: 8.35 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

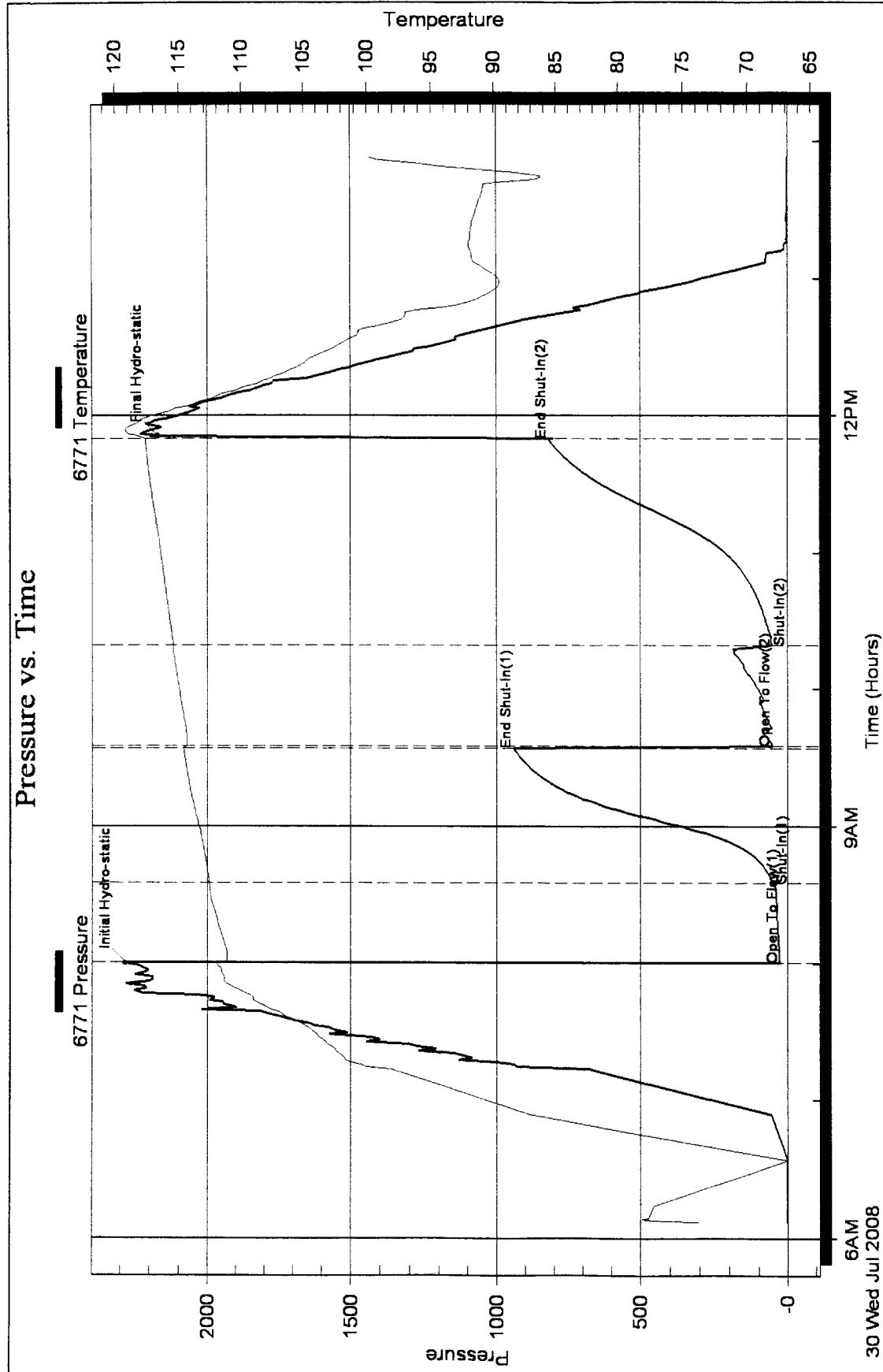
Recovery Information

Recovery Table

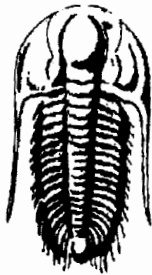
Length ft	Description	Volume bbl
65.00	sl oil cut mud 5% oil 95% mud	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great PlainsEnergy Inc**

PO Box 292 Wahoo, NE 68066

ATTN: Dan Blankaneu

6 17s 32w Scott KS

Bruce Wilken

Start Date: 2008.07.31 @ 09:00:18

End Date: 2008.07.31 @ 15:50:33

Job Ticket #: 31398 DST #: 5

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Great PlainsEnergy Inc

Bruce Wilken

6 17s 32w Scott KS

DST # 5

LKC J

2008.07.31



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Great Plains Energy Inc
 PO Box 292 Wahoo, NE 68066
 ATTN: Dan Blankaneu

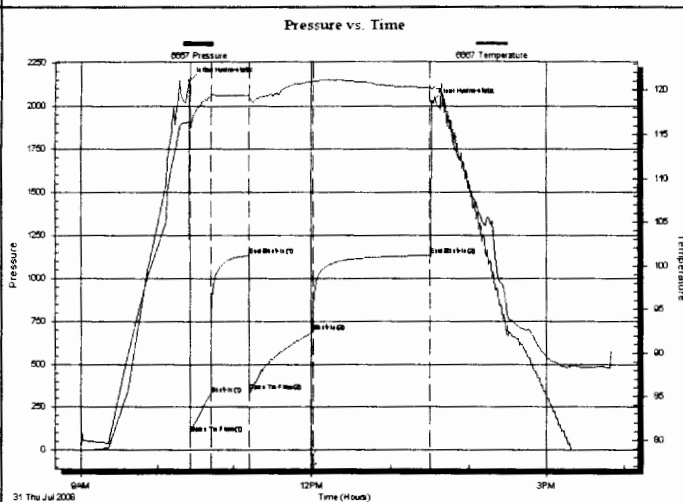
Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31398 **DST#: 5**
 Test Start: 2008.07.31 @ 09:00:18

GENERAL INFORMATION:

Formation: **LKC J**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **10:26:18** Tester: **Kyle Wiley**
 Time Test Ended: **15:50:33** Unit No: **40**
 Interval: **4207.00 ft (KB) To 4232.00 ft (KB) (TVD)** Reference Elevations: **2976.00 ft (KB)**
 Total Depth: **4756.00 ft (KB) (TVD)** **2971.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 6667 Below (Straddle)
 Press@RunDepth: **686.86 psig @ 4239.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2008.07.31** End Date: **2008.07.31** Last Calib.: **2008.07.31**
 Start Time: **09:00:23** End Time: **15:50:32** Time On Btrn: **2008.07.31 @ 10:25:33**
 Time Off Btrn: **2008.07.31 @ 13:31:18**

TEST COMMENT: IF BOB in 3 min
 IS Weak surface blow died in 7 min
 FF BOB 4 min
 FS 1.5 inch blow died in 21 min



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.34	116.45	Initial Hydro-static
1	97.62	116.04	Open To Flow (1)
17	324.88	119.27	Shut-In(1)
47	1134.79	119.33	End Shut-In(1)
47	339.72	119.05	Open To Flow (2)
96	686.86	120.95	Shut-In(2)
185	1133.46	120.30	End Shut-In(2)
186	2021.59	120.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1340.00	drilling mud	17.68

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
 ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31398 **DST#: 5**
 Test Start: 2008.07.31 @ 09:00:18

Tool Information

Drill Pipe:	Length: 4072.00 ft	Diameter: 3.80 inches	Volume: 57.12 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4207.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	528.00 ft			
Tool Length:	555.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4185.00	
Hydraulic tool	5.00			4190.00	
Jars	5.00			4195.00	
Safety Joint	2.00			4197.00	
Packer	5.00			4202.00	27.00 Bottom Of Top Packer
Packer	5.00			4207.00	
Stubb	1.00			4208.00	
Recorder	0.00	6771	Inside	4208.00	
Perforations	19.00			4227.00	
Blank Off Sub	5.00			4232.00	528.00 Tool Interval
Packer	5.00			4237.00	
Stubb	1.00			4238.00	
Change Over Sub	1.00			4239.00	
Recorder	0.00	6667	Below	4239.00	
Blank Spacing	496.00			4735.00	1000554.00 Bottom Packers & Anchor

Total Tool Length: 555.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31398 DST#: 5
Test Start: 2008.07.31 @ 09:00:18

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 2.00 inches			

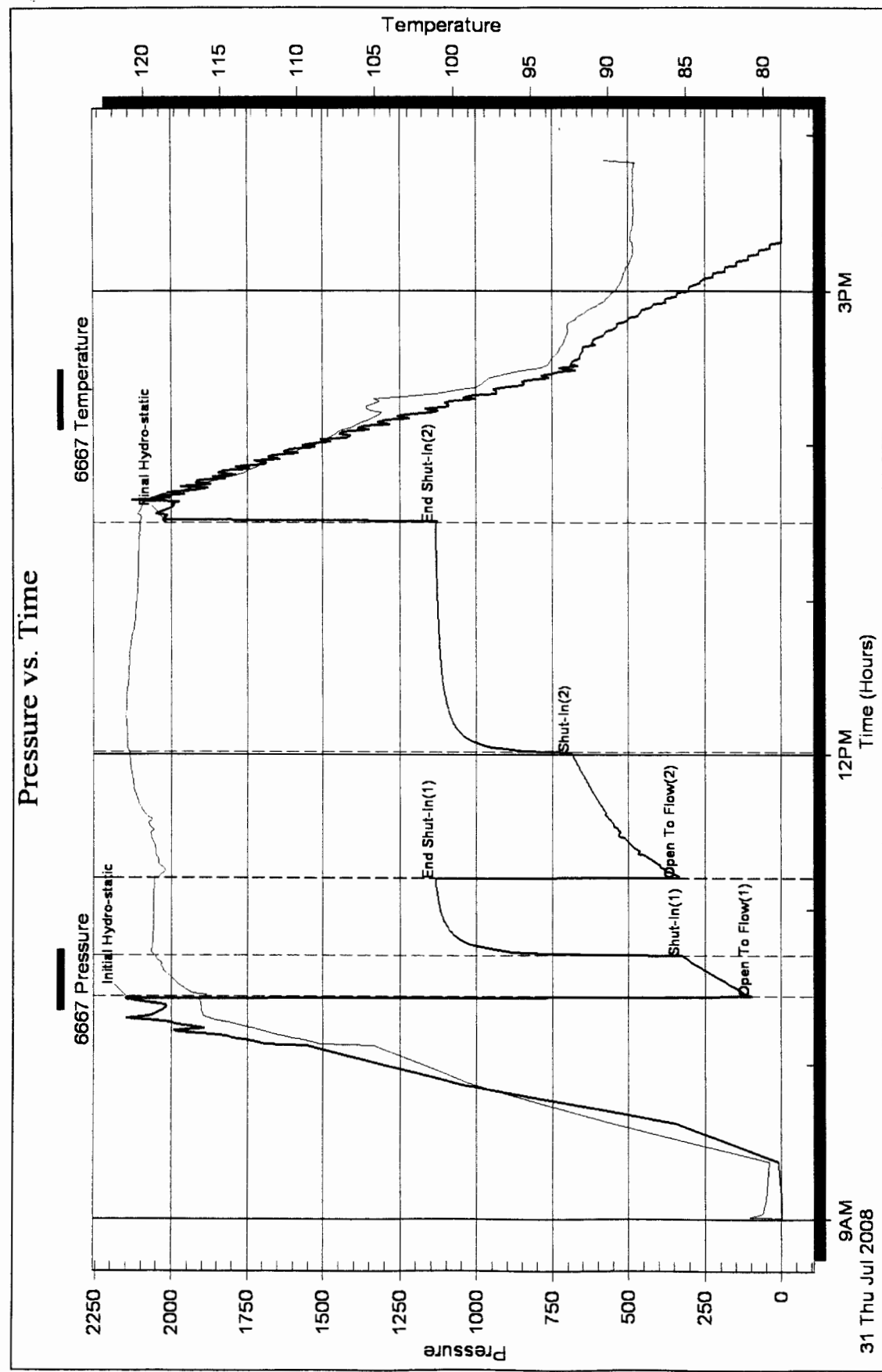
Recovery Information

Recovery Table

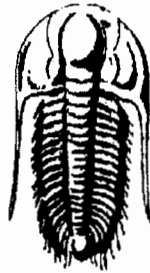
Length ft	Description	Volume bbl
1340.00	drilling mud	17.676

Total Length: 1340.00 ft Total Volume: 17.676 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Msrn-- Bottom packer failed

Pressure vs. Time



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TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great PlainsEnergy Inc**

PO Box 292 Wahoo, NE 68066

ATTN: Dan Blankaneu

6 17s 32w Scott KS

Bruce Wilken

Start Date: 2008.07.31 @ 16:07:51

End Date: 2008.07.31 @ 23:55:00

Job Ticket #: 31399 DST #: 6

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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
 ATTN: Dan Blankaneu

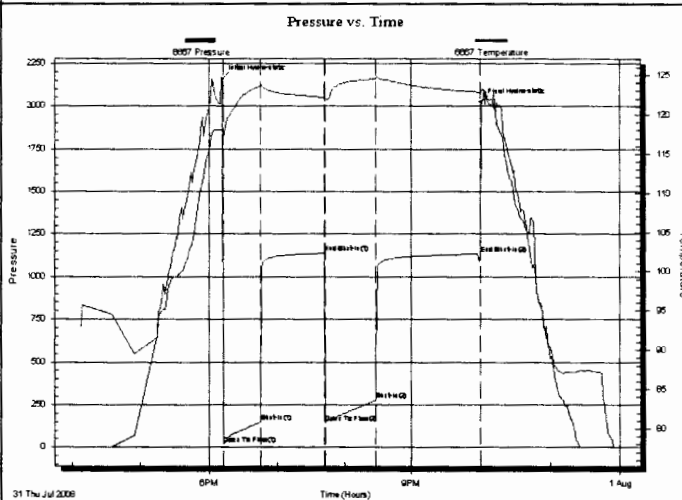
Bruce Wilken
6 17s 32w Scott KS
 Job Ticket: 31399 **DST#: 6**
 Test Start: 2008.07.31 @ 16:07:51

GENERAL INFORMATION:

Formation: **Lansing KC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 18:12:16
 Tester: Kyle Wiley
 Time Test Ended: 23:55:00
 Unit No: 40
 Interval: **4205.00 ft (KB) To 4230.00 ft (KB) (TVD)**
 Reference Elevations: 2976.00 ft (KB)
 Total Depth: 4756.00 ft (KB) (TVD)
 2971.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6667 Below (Straddle)
 Press@RunDepth: 276.35 psig @ 4239.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.31 End Date: 2008.07.31 Last Calib.: 2008.08.01
 Start Time: 16:07:51 End Time: 23:55:00 Time On Btm: 2008.07.31 @ 18:11:46
 Time Off Btm: 2008.07.31 @ 22:00:31

TEST COMMENT: IF BOB 17 min
 IS No return
 FF BOB in 31 min
 FS No return



PRESSURE SUMMARY

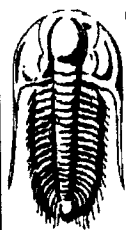
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2159.77	118.10	Initial Hydro-static
1	19.11	117.27	Open To Flow (1)
34	148.25	123.56	Shut-In(1)
91	1138.39	122.21	End Shut-In(1)
91	143.48	121.67	Open To Flow (2)
137	276.35	124.52	Shut-In(2)
229	1133.11	122.83	End Shut-In(2)
229	2024.59	122.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% M	0.15
620.00	MCW 10% M 90% W	7.85
0.00	GIP 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great PlainsEnergy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31399 **DST#: 6**
Test Start: 2008.07.31 @ 16:07:51

Tool Information

Drill Pipe:	Length: 4072.00 ft	Diameter: 3.80 inches	Volume: 57.12 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
		<u>Total Volume: 57.72 bbl</u>		Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4205.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	530.00 ft			
Tool Length:	557.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4183.00	
Hydraulic tool	5.00			4188.00	
Jars	5.00			4193.00	
Safety Joint	2.00			4195.00	
Packer	5.00			4200.00	27.00 Bottom Of Top Packer
Packer	5.00			4205.00	
Stubb	1.00			4206.00	
Recorder	0.00	6771	Inside	4206.00	
Perforations	19.00			4225.00	
Blank Off Sub	5.00			4230.00	530.00 Tool Interval
Packer	5.00			4235.00	
Stubb	1.00			4236.00	
Anchor	2.00			4238.00	
Change Over Sub	1.00			4239.00	
Recorder	0.00	6667	Below	4239.00	
Blank Spacing	496.00			4735.00	1000556.00 Bottom Packers & Anchor
Total Tool Length:		557.00			

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FLUID SUMMARY

Great PlainsEnergy Inc
PO Box 292 Wahoo, NE 68066
ATTN: Dan Blankaneu

Bruce Wilken
6 17s 32w Scott KS
Job Ticket: 31399 **DST#: 6**
Test Start: 2003.07.31 @ 16:07:51

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 20000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.34 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100% M	0.148
620.00	MCW 10% M 90% W	7.850
0.00	GIP 0	0.000

Total Length: 650.00 ft Total Volume: 7.998 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW: .271 @ 96 Degrees F = 20000 chlorides

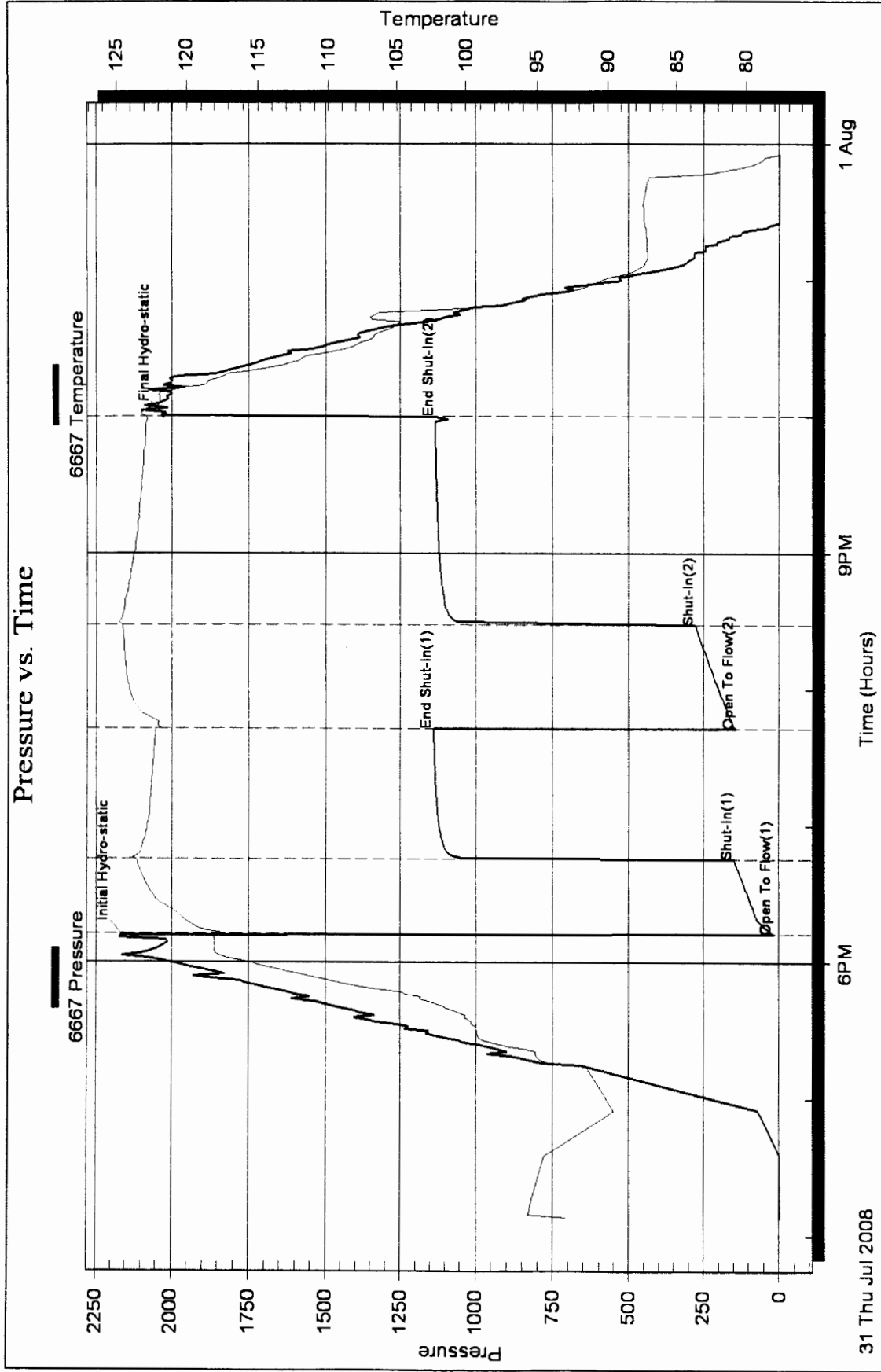
Serial #: 6667

Below (Strat) Plains Energy Inc

6 17s 32w Scott KS

DST Test Number: 6

Pressure vs. Time



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Trilobite Testing, Inc

Ref. No: 31399

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