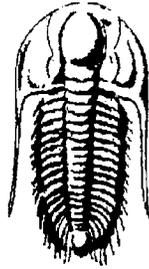


15-171-20639

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Ka



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden
PO Box 292
Wahoo Neb 68066

ATTN: Richard Bell

5 17 32 Scott KS

Zanobia #1

Start Date: 2006.08.17 @ 01:55:55

End Date: 2006.08.17 @ 08:20:19

Job Ticket #: 24697 DST #: 1

15-171-20639-0000

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Great Plains Energy

Zanobia #1

5 17 32 Scott KS

DST # 1

A-F

2006.08.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy

Zanobia #1

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

5 17 32 Scott KS

Job Ticket: 24697 **DST#: 1**

Test Start: 2006.08.17 @ 01:55:55

GENERAL INFORMATION:

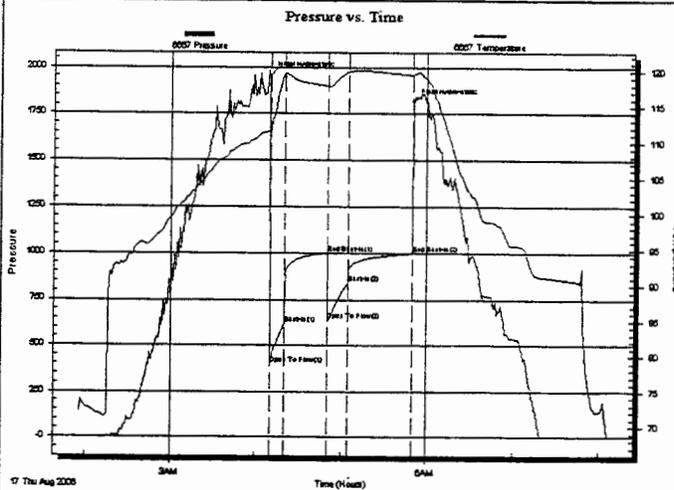
Formation: **A-F**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 04:10:35
 Time Test Ended: 08:20:19
 Interval: **3962.00 ft (KB) To 4095.00 ft (KB) (TVD)**
 Total Depth: **4095.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Shane McBride**
 Unit No: **21**
 Reference Elevations: **2987.00 ft (KB)**
2976.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6667

Inside

Press@RunDepth: **839.79 psig @ 3963.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2006.08.17** End Date: **2006.08.17** Last Calib.: **2006.08.17**
 Start Time: **01:55:55** End Time: **08:06:19** Time On Btm: **2006.08.17 @ 04:10:05**
 Time Off Btm: **2006.08.17 @ 05:50:20**

TEST COMMENT: BOB in 3/4 min.
 No return
 BOB in 1 min.
 No return



PRESSURE SUMMARY

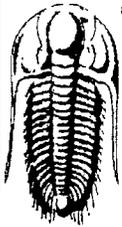
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.28	111.67	Initial Hydro-static
1	399.38	111.34	Open To Flow (1)
10	617.52	119.69	Shut-In(1)
40	1001.48	117.98	End Shut-In(1)
41	638.39	117.87	Open To Flow (2)
55	839.79	119.82	Shut-In(2)
100	998.08	119.45	End Shut-In(2)
101	1813.45	119.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	WCM 30%W 70%M	1.78
310.00	MCW 30%M 70%W	4.35
1116.00	Water w/Oil spots 100%W	15.65

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy

Zanobia #1

429 N Linden

5 17 32 Scott KS

PO Box 292

Job Ticket: 24697

DST#: 1

Wahoo Neb 68066

ATTN: Richard Bell

Test Start: 2006.08.17 @ 01:55:55

Tool Information

Drill Pipe:	Length: 3758.00 ft	Diameter: 3.80 inches	Volume: 52.71 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: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 53.62 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3962.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	133.00 ft			
Tool Length:	160.00 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			3936.00	
Shut In Tool	5.00			3941.00	
Hydraulic tool	5.00			3946.00	
Jars	5.00			3951.00	
Safety Joint	2.00			3953.00	
Packer	5.00		Fluid	3958.00	27.00 Bottom Of Top Packer
Packer	4.00			3962.00	
Stubb	1.00			3963.00	
Recorder	0.00	6667	Inside	3963.00	
Perforations	32.00			3995.00	
Change Over Sub	1.00			3996.00	
Drill Pipe	93.00			4089.00	
Change Over Sub	1.00			4090.00	
Recorder	0.00	11058	Inside	4090.00	
Bullnose	5.00			4095.00	133.00 Bottom Packers & Anchor

Total Tool Length: 160.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

Zanobia #1

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

5 17 32 Scott KS

Job Ticket: 24697

DST#: 1

Test Start: 2006.08.17 @ 01:55:55

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:	49000 ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.90 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	WCM 30%W 70%M	1.784
310.00	MCW 30%M 70%W	4.348
1116.00	Water w /Oil spots 100%W	15.655

Total Length: 1674.00 ft Total Volume: 21.787 bbl

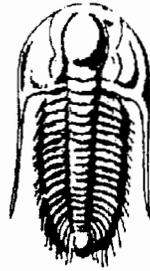
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden
PO Box 292
Wahoo Neb 68066

ATTN: Richard Bell

5 17 32 Scott KS

Zanobia #1

Start Date: 2006.08.17 @ 22:25:46

End Date: 2006.08.18 @ 06:25:40

Job Ticket #: 24698 DST #: 2

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

Great Plains Energy

Zanobia #1

5 17 32 Scott KS

DST # 2

I-J

2006.08.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

Zanobia #1

5 17 32 Scott KS

Job Ticket: 24698 **DST#: 2**

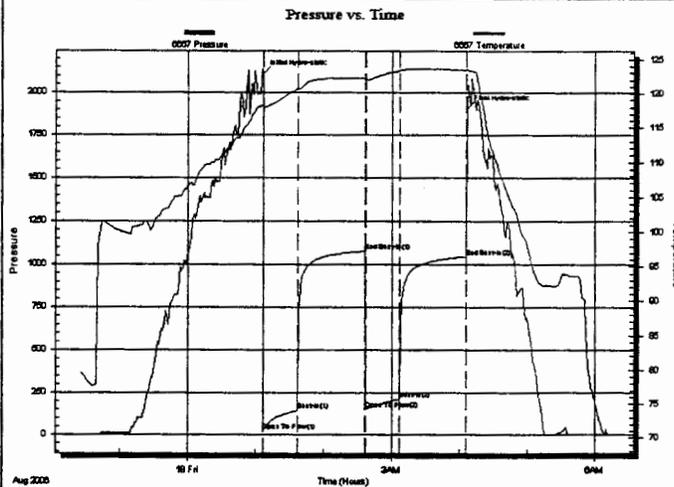
Test Start: 2006.08.17 @ 22:25:46

GENERAL INFORMATION:

Formation: I-J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:06:26
Time Test Ended: 06:25:40
Interval: **4193.00 ft (KB) To 4242.00 ft (KB) (TVD)**
Total Depth: 4242.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 21
Reference Elevations: 2987.00 ft (KB)
2976.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6667 Inside
Press@RunDepth: 212.05 psig @ 4194.00 ft (KB)
Start Date: 2006.08.17 End Date: 2006.08.18
Start Time: 22:25:46 End Time: 06:10:40
Capacity: 7000.00 psig
Last Calib.: 2006.08.18
Time On Btmr: 2006.08.18 @ 01:06:11
Time Off Btmr: 2006.08.18 @ 04:06:25

TEST COMMENT: 1/4" in @ open built to B.O.B. in 20 min.
No return
Surface blow in 2 1/2 min. built to 11" in.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.95	118.25	Initial Hydro-static
1	25.58	117.74	Open To Flow (1)
31	145.67	120.68	Shut-In(1)
91	1077.45	122.25	End Shut-In(1)
91	152.68	121.74	Open To Flow (2)
121	212.05	123.31	Shut-In(2)
180	1047.41	123.49	End Shut-In(2)
181	1907.03	123.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	water 100w	2.65
124.00	m c w 35m 65w	1.74

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy

Zanobia #1

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

5 17 32 Scott KS
Job Ticket: 24698 **DST#: 2**
Test Start: 2006.08.17 @ 22:25:46

Tool Information

Drill Pipe:	Length: 4012.00 ft	Diameter: 3.80 inches	Volume: 56.28 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: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4193.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	76.00 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			4167.00	
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00			4177.00	
Jars	5.00			4182.00	
Safety Joint	2.00			4184.00	
Packer	5.00		Fluid	4189.00	27.00 Bottom Of Top Packer
Packer	4.00			4193.00	
Stubb	1.00			4194.00	
Recorder	0.00	6667	inside	4194.00	
Perforations	10.00			4204.00	
Change Over Sub	1.00			4205.00	
Drill Pipe	31.00			4236.00	
Change Over Sub	1.00			4237.00	
Recorder	0.00	11058	inside	4237.00	
Bullnose	5.00			4242.00	49.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

Zanobia #1

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

5 17 32 Scott KS
Job Ticket: 24698 DST#: 2
Test Start: 2006.08.17 @ 22:25:46

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: 38500 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.92 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6200.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	water 100w	2.654
124.00	m c w 35m 65w	1.739

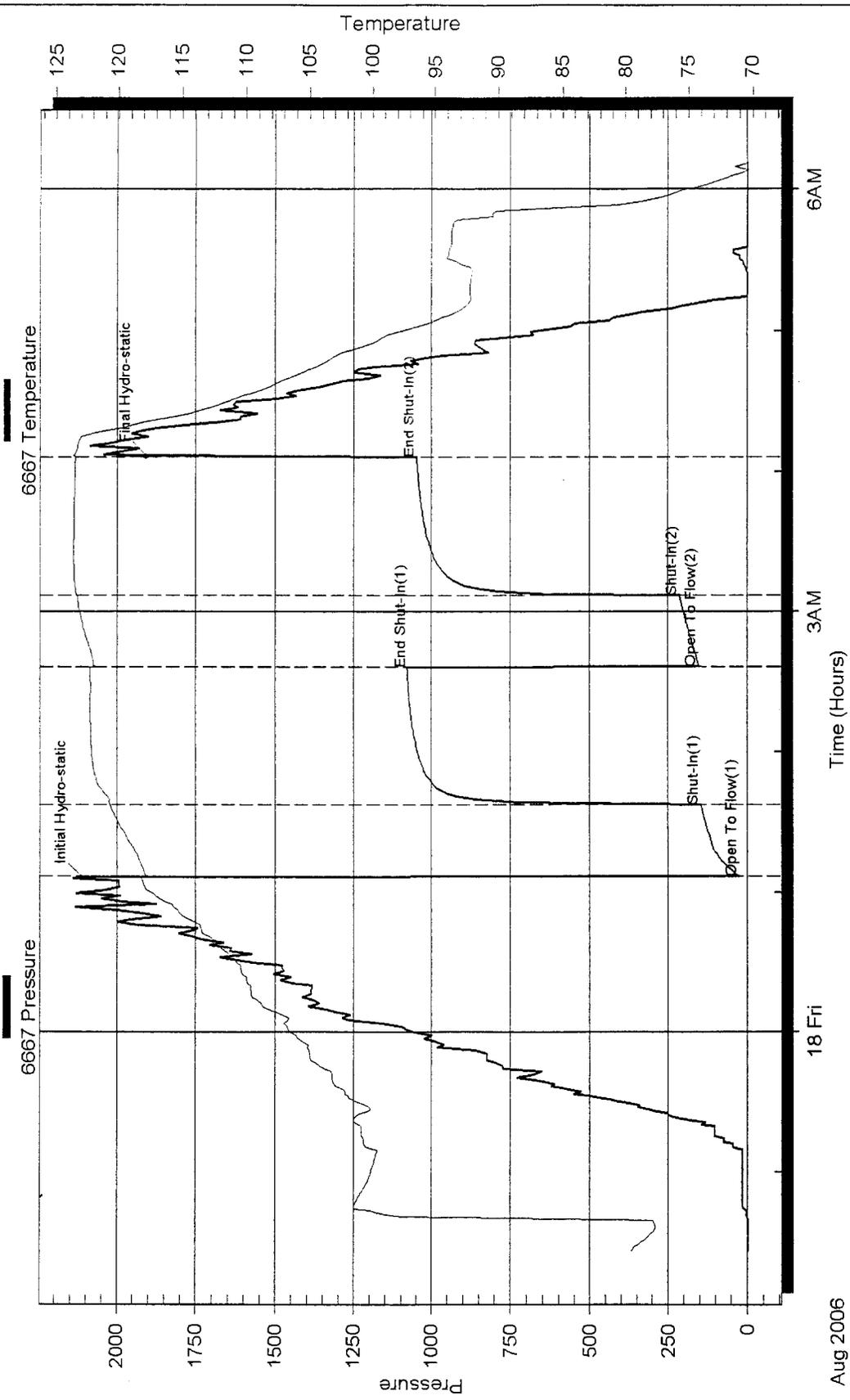
Total Length: 434.00 ft Total Volume: 4.393 bbl

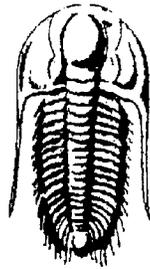
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden
PO Box 292
Wahoo Neb 68066

ATTN: Richard Bell

5 17 32 Scott KS

Zanobia #1

Start Date: 2006.08.19 @ 02:50:46

End Date: 2006.08.19 @ 10:55:40

Job Ticket #: 24699 DST #: 3

Great Plains Energy

Zanobia #1

5 17 32 Scott KS

DST # 3

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2006.08.19

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy
429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

Zanobia #1
5 17 32 Scott KS
Job Ticket: 24699 **DST#: 3**
Test Start: 2006.08.19 @ 02:50:46

Tool Information

Drill Pipe:	Length: 4224.00 ft	Diameter: 3.80 inches	Volume: 59.25 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: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4405.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	86.00 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			4379.00	
Shut In Tool	5.00			4384.00	
Hydraulic tool	5.00			4389.00	
Jars	5.00			4394.00	
Safety Joint	2.00			4396.00	
Packer	5.00		Fluid	4401.00	27.00 Bottom Of Top Packer
Packer	4.00			4405.00	
Stubb	1.00			4406.00	
Recorder	0.00	6667	inside	4406.00	
Perforations	20.00			4426.00	
Change Over Sub	1.00			4427.00	
Drill Pipe	31.00			4458.00	
Change Over Sub	1.00			4459.00	
Recorder	0.00	11058	inside	4459.00	
Bullnose	5.00			4464.00	59.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

Zanobia #1

429 N Linden

5 17 32 Scott KS

PO Box 292

Job Ticket: 24699

DST#: 3

Wahoo Neb 68066

Test Start: 2006.08.19 @ 02:50:46

ATTN: Richard Bell

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.33 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
128.00	Free Oil 100%O	0.629
62.00	OCM 30%O 70%M	0.341

Total Length: 190.00 ft

Total Volume: 0.970 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

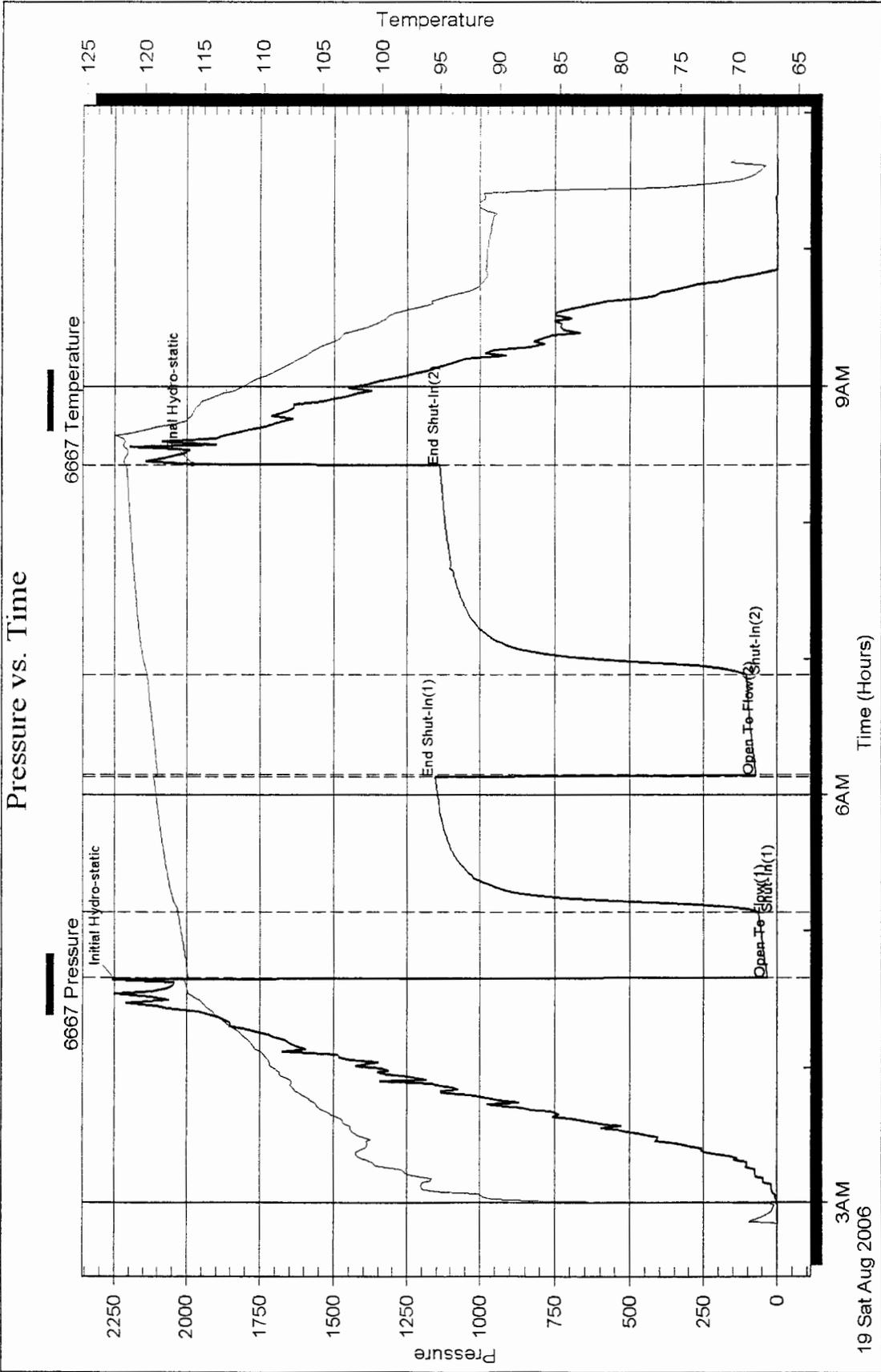
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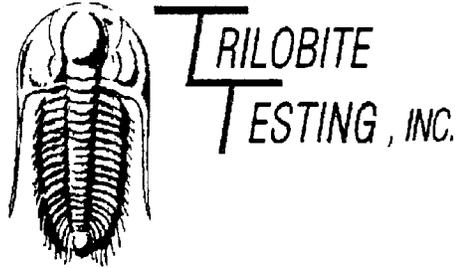
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden
PO Box 292
Wahoo Neb 68066

ATTN: Richard Bell

5 17 32 Scott KS

Zanobia #1

Start Date: 2006.08.19 @ 12:15:05

End Date: 2006.08.19 @ 06:15:14

Job Ticket #: 24700 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
429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

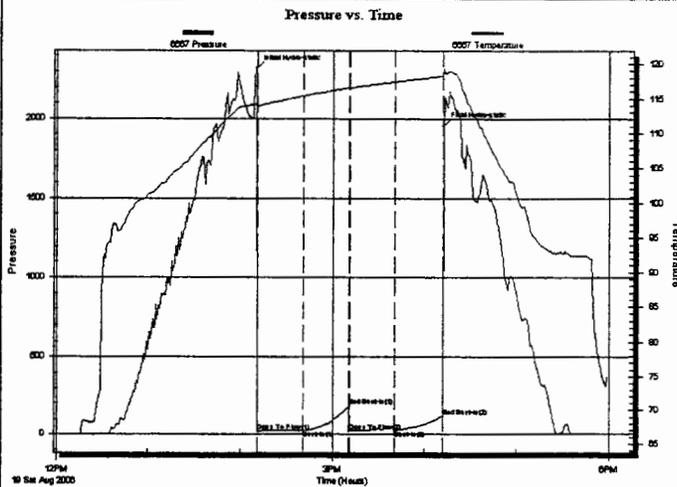
Zanobia #1
5 17 32 Scott KS
Job Ticket: 24700 **DST#: 4**
Test Start: 2006.08.19 @ 12:15:05

GENERAL INFORMATION:

Formation: **marm,pawnee,ft scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:10:45
Time Test Ended: 06:15:14
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 21
Interval: **4494.00 ft (KB) To 4567.00 ft (KB) (TVD)**
Reference Elevations: 2987.00 ft (KB)
Total Depth: 4095.00 ft (KB) (TVD) 2976.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6667 Inside
Press@RunDepth: 24.44 psig @ 4495.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2006.08.19 End Date: 2006.08.19 Last Calib.: 2006.08.20
Start Time: 12:15:05 End Time: 17:58:14 Time On Btrn: 2006.08.19 @ 14:10:15
Time Off Btrn: 2006.08.19 @ 16:12:30

TEST COMMENT: 1/4 " blow died in 18 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.56	114.32	Initial Hydro-static
1	21.04	113.86	Open To Flow (1)
31	24.36	115.37	Shut-In(1)
60	179.24	116.56	End Shut-In(1)
61	23.00	116.50	Open To Flow (2)
91	24.44	117.41	Shut-In(2)
122	117.73	118.26	End Shut-In(2)
123	1954.26	119.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	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

Zanobia #1

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

5 17 32 Scott KS

Job Ticket: 24700 **DST#: 4**

Test Start: 2006.08.19 @ 12:15:05

Tool Information

Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 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:	30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume: 61.02 bbl		Tool Chased:	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4494.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	100.00 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			4468.00	
Shut In Tool	5.00			4473.00	
Hydraulic tool	5.00			4478.00	
Jars	5.00			4483.00	
Safety Joint	2.00			4485.00	
Packer	5.00		Fluid	4490.00	27.00 Bottom Of Top Packer
Packer	4.00			4494.00	
Stubb	1.00			4495.00	
Recorder	0.00	6667	Inside	4495.00	
Perforations	34.00			4529.00	
Change Over Sub	1.00			4530.00	
Drill Pipe	31.00			4561.00	
Change Over Sub	1.00			4562.00	
Recorder	0.00	11058	Inside	4562.00	
Bullnose	5.00			4567.00	73.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy
429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

Zanobia #1
5 17 32 Scott KS
Job Ticket: 24700 DST#: 4
Test Start: 2006.08.19 @ 12:15:05

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:	58.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.35 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6100.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	100%M	0.010

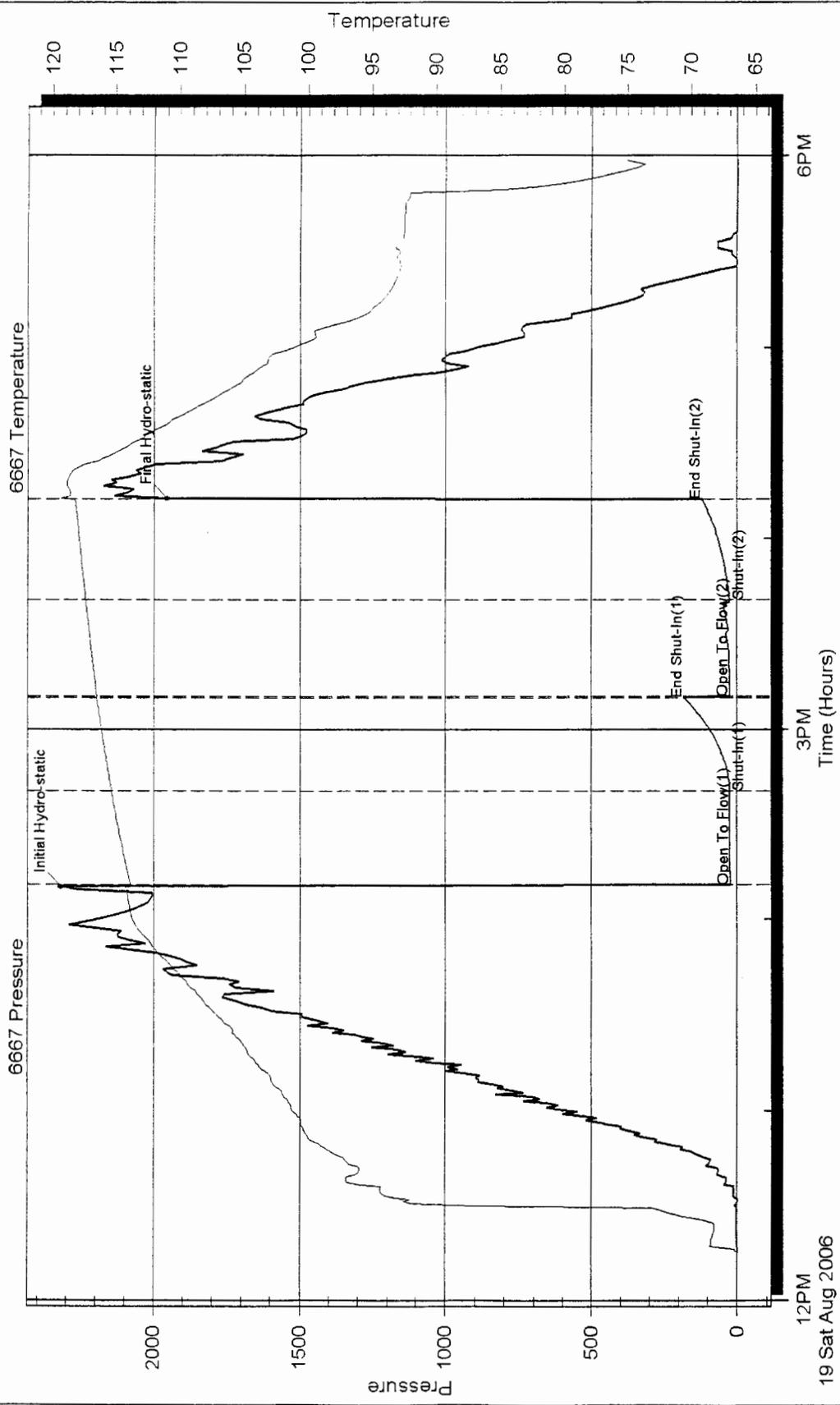
Total Length: 2.00 ft Total Volume: 0.010 bbl

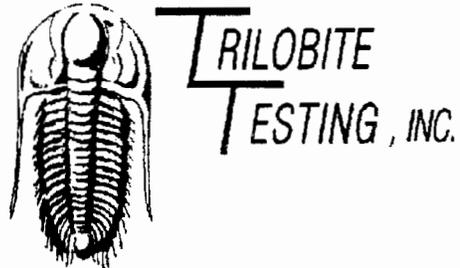
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

429 N Linden
PO Box 292
Wahoo Neb 68066

ATTN: Richard Bell

5 17 32 Scott KS

Zanobia #1

Start Date: 2006.08.20 @ 17:15:22

End Date: 2006.08.21 @ 01:50:16

Job Ticket #: 25551 DST #: 5

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

Great Plains Energy

Zanobia #1

5 17 32 Scott KS

DST # 5

cher-morrow

2006.08.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy
429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

Zanobia #1
5 17 32 Scott KS
Job Ticket: 25551 **DST#: 5**
Test Start: 2006.08.20 @ 17:15:22

GENERAL INFORMATION:

Formation: **cher-morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:17

Time Test Ended: 01:50:16

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 21

Interval: **4560.00 ft (KB) To 4655.00 ft (KB) (TVD)**

Total Depth: 4655.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2987.00 ft (KB)

2976.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667

Inside

Press@RunDepth: 70.94 psig @ 4561.00 ft (KB)

Start Date: 2006.08.20

Start Time: 17:15:22

End Date:

End Time:

2006.08.21

01:37:16

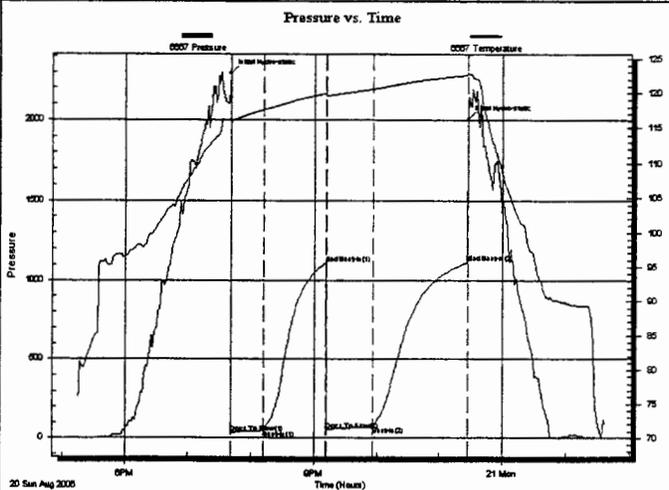
Capacity: 7000.00 psig

Last Calib.: 2006.08.21

Time On Btm: 2006.08.20 @ 19:40:02

Time Off Btm: 2006.08.20 @ 23:27:01

TEST COMMENT: 9" in blow
No return
BOB in 36 min.
Weak 1/4-1/2" in return died in 30 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.74	116.35	Initial Hydro-static
1	30.56	115.32	Open To Flow (1)
31	47.21	117.54	Shut-In(1)
91	1107.94	119.91	End Shut-In(1)
92	51.18	119.60	Open To Flow (2)
136	70.94	120.56	Shut-In(2)
227	1112.47	122.62	End Shut-In(2)
227	2002.62	123.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	SGO 5%G 95%O	0.25
74.00	MC O trace of Gas 30%M 70%O	0.36
0.00	248' very weak 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

Zanobia #1

429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

5 17 32 Scott KS

Job Ticket: 25551

DST#: 5

Test Start: 2006.08.20 @ 17:15:22

Tool Information

Drill Pipe:	Length: 4378.00 ft	Diameter: 3.80 inches	Volume: 61.41 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: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4560.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	122.00 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			4534.00	
Shut In Tool	5.00			4539.00	
Hydraulic tool	5.00			4544.00	
Jars	5.00			4549.00	
Safety Joint	2.00			4551.00	
Packer	5.00		Fluid	4556.00	27.00 Bottom Of Top Packer
Packer	4.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	6667	inside	4561.00	
Perforations	24.00			4585.00	
Change Over Sub	1.00			4586.00	
Drill Pipe	63.00			4649.00	
Change Over Sub	1.00			4650.00	
Recorder	0.00	11058	inside	4650.00	
Bullnose	5.00			4655.00	95.00 Bottom Packers & Anchor
Total Tool Length:	122.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy
429 N Linden
PO Box 292
Wahoo Neb 68066
ATTN: Richard Bell

Zanobia #1
5 17 32 Scott KS
Job Ticket: 25551 **DST#: 5**
Test Start: 2006.08.20 @ 17:15:22

Mud and Cushion Information

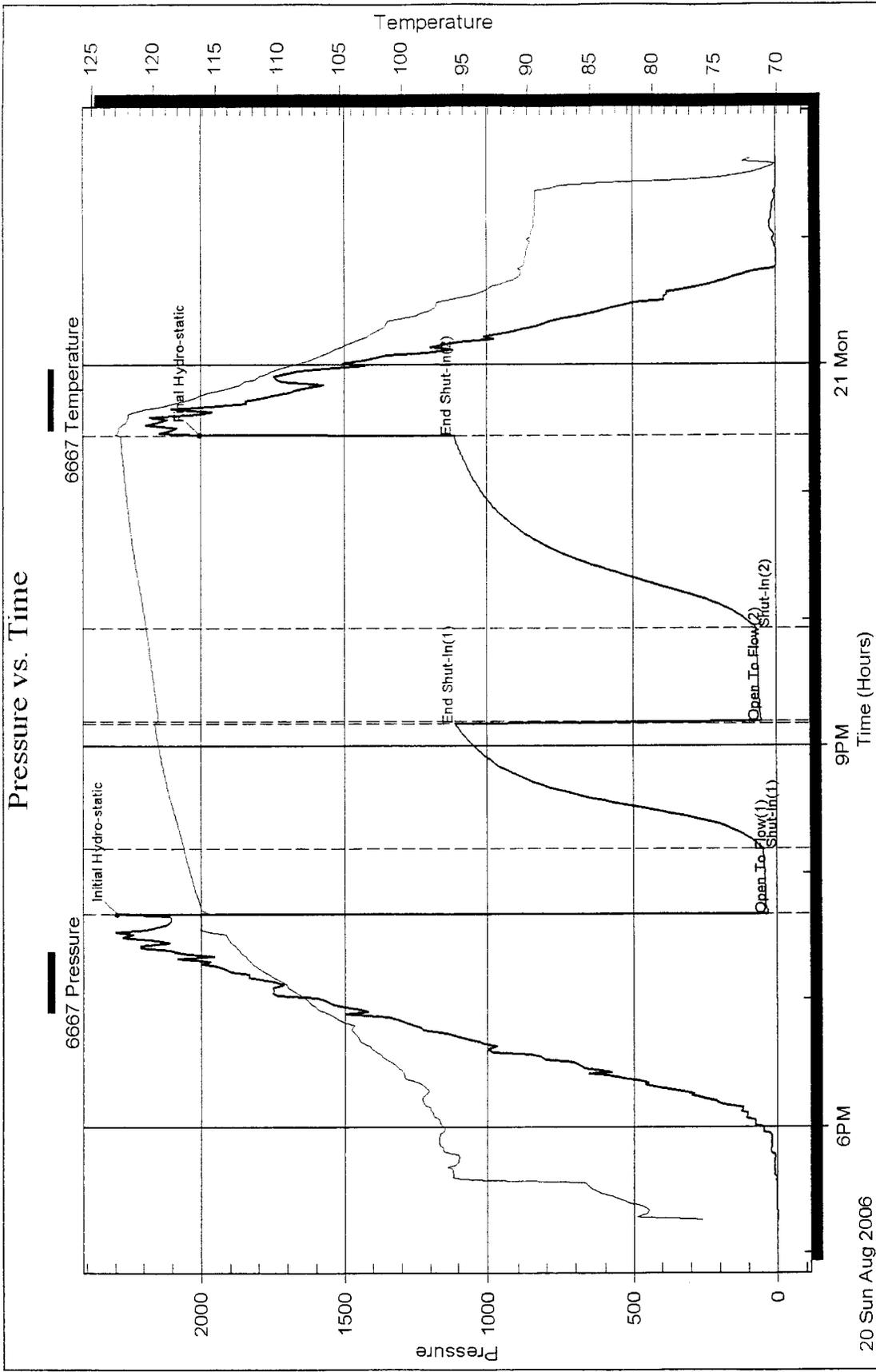
Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6100.00 ppm		
Filter Cake: 2.00 inches		

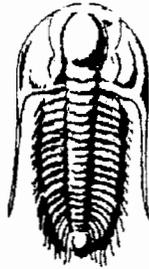
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	SGO 5%G 95%O	0.246
74.00	MC O trace of Gas 30%M 70%O	0.364
0.00	248' very weak GP	0.000

Total Length: 124.00 ft Total Volume: 0.610 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**

429 N Linden
PO Box 292
Wahoo Neb 68066

ATTN: Richard Bell

5 17 32 Scott KS

Zanobia #1

Start Date: 2006.08.21 @ 23:55:51

End Date: 2006.08.22 @ 08:40:45

Job Ticket #: 25552 DST #: 6

Great Plains Energy

Zanobia #1

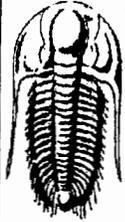
5 17 32 Scott KS

DST # 6

E

2006.08.21

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



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great Plains Energy
 429 N Linden
 PO Box 292
 Wahoo Neb 68066
 ATTN: Richard Bell

Zanobia #1
5 17 32 Scott KS
 Job Ticket: 25552 DST#: 6
 Test Start: 2006.08.21 @ 23:55:51

GENERAL INFORMATION:

Formation: **E**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 02:01:16
 Time Test Ended: 08:40:45

Test Type: Conventional Straddle
 Tester: Shane McBride
 Unit No: 21

Interval: **4064.00 ft (KB) To 4086.00 ft (KB) (TVD)**
 Total Depth: 4800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2987.00 ft (KB)
 2976.00 ft (CF)
 KB to GR/CF: 11.00 ft

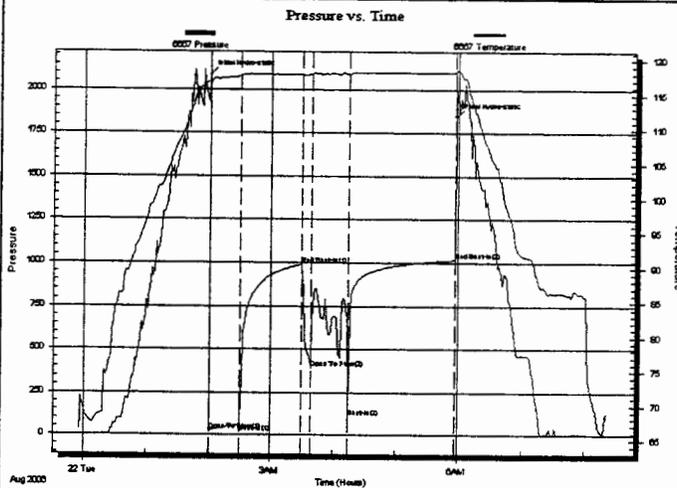
Serial #: 6667

Inside

Press@RunDepth: 107.65 psig @ 4065.00 ft (KB)
 Start Date: 2006.08.21 End Date: 2006.08.22
 Start Time: 23:55:51 End Time: 08:22:45

Capacity: 7000.00 psig
 Last Calib.: 2006.08.22
 Time On Btm: 2006.08.22 @ 02:01:01
 Time Off Btm: 2006.08.22 @ 05:57:30

TEST COMMENT: 1/4 " blow built to 4 3/4 "
 No return
 Surface blow in 8 min built to



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.65	116.85	Initial Hydro-static
1	21.75	116.33	Open To Flow (1)
30	59.93	117.66	Shut-in(1)
89	991.32	118.02	End Shut-in(1)
98	388.93	117.96	Open To Flow (2)
134	107.65	117.89	Shut-in(2)
237	1015.30	118.20	End Shut-in(2)
237	1846.70	118.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	Free Oil	0.60
62.00	SW&CMO 25%W 40%M 35%O	0.30

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy
 429 N Linden
 PO Box 292
 Wahoo Neb 68066
 ATTN: Richard Bell

Zanobia #1
5 17 32 Scott KS
 Job Ticket: 25552 **DST#: 6**
 Test Start: 2006.08.21 @ 23:55:51

Tool Information

Drill Pipe:	Length: 3876.00 ft	Diameter: 3.80 inches	Volume: 54.37 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: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4064.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	4086.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	764.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4038.00	
Shut In Tool	5.00			4043.00	
Hydraulic tool	5.00			4048.00	
Jars	5.00			4053.00	
Safety Joint	2.00			4055.00	
Packer	5.00		Fluid	4060.00	27.00 Bottom Of Top Packer
Packer	4.00			4064.00	
Stubb	1.00			4065.00	
Recorder	0.00	6667	Inside	4065.00	
Perforations	17.00			4082.00	
Blank Off Sub	1.00			4083.00	
top of packer	3.00			4086.00	22.00 Tool Interval
Packer	1.00			4087.00	
Stubb	1.00			4088.00	
Anchor	17.00			4105.00	
Change Over Sub	1.00			4106.00	
Drill Pipe	689.00			4795.00	
Change Over Sub	1.00			4796.00	
Recorder	0.00	11058	Inside	4796.00	
Bullnose	5.00			4801.00	715.00 Bottom Packers & Anchor

Total Tool Length: 764.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

Zanobia #1

429 N Linden

5 17 32 Scott KS

PO Box 292

Job Ticket: 25552

DST#: 6

Wahoo Neb 68066

Test Start: 2006.08.21 @ 23:55:51

ATTN: Richard Bell

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38500 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	Free Oil	0.600
62.00	SW&CMO 25%W 40%M 35%O	0.305

Total Length: 184.00 ft

Total Volume: 0.905 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

