



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st St North Ste B
Wichita KS 67205

ATTN: Randy Kilian

15-039-21039

29 3S 28W Decatur KS

Brown #29-1

Start Date: 2008.01.21 @ 21:43:08

End Date: 2008.01.22 @ 04:28:08

Job Ticket #: 31528

DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

APR 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

IA Operating Inc

9915 W 21st St North Ste B
Wichita KS 67205

ATTN: Randy Kilian

Brown #29-1

29 3S 28W Decatur KS

Job Ticket: 31528

DST#: 1

Test Start: 2008.01.21 @ 21:43:08

GENERAL INFORMATION:

Formation: **Toronto LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:13:38

Time Test Ended: 04:28:08

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 20

Interval: **3713.00 ft (KB) To 3793.00 ft (KB) (TVD)**

Total Depth: 3985.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2745.00 ft (KB)

2740.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 681.01 psig @ 3747.00 ft (KB)

Start Date: 2008.01.21

End Date:

2008.01.22

Start Time: 21:43:13

End Time:

04:28:07

Capacity: 7000.00 psig

Last Calib.: 2008.01.22

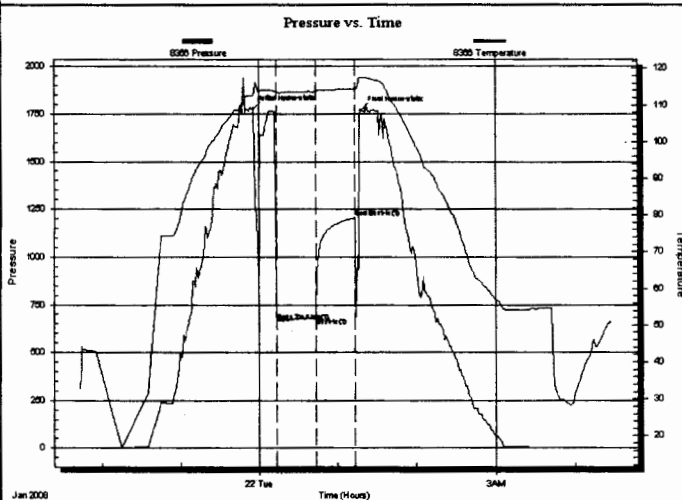
Time On Btm: 2008.01.21 @ 23:56:08

Time Off Btm: 2008.01.22 @ 01:18:38

TEST COMMENT: IF Tool opened while making up head joint set tool fairly strong blow built to 9 "

ISI Bled off no blow back

FF Weak building blow then lost top packer seat



PRESSURE SUMMARY

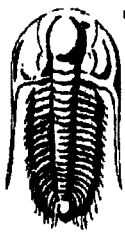
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.18	112.66	Initial Hydro-static
18	661.46	113.57	Open To Flow (1)
48	681.01	113.77	Shut-In(1)
78	1203.81	114.46	End Shut-In(1)
83	1768.42	117.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1700.00	Mud	19.99

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating Inc

9915 W 21st St North Ste B
Wichita KS 67205

ATTN: Randy Kilian

Brown #29-1

29 3S 28W Decatur KS

Job Ticket: 31528

DST#: 1

Test Start: 2008.01.21 @ 21:43:08

Tool Information

Drill Pipe:	Length: 3307.00 ft	Diameter: 3.80 inches	Volume: 46.39 bbl	Tool Weight:	3200.00 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: 423.00 ft	Diameter: 2.25 inches	Volume: 2.08 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	48.47 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3746.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	3826.00 ft				
Interval between Packers:	80.00 ft				
Tool Length:	288.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		

Tool Comments:

Tool opened while making up head joint. Geo decided to try to set the test.
Test set until 2nd flow when packer seat was lost.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3735.00	
Hydraulic tool	5.00			3740.00	
Change Over Sub	1.00			3741.00	
Packer	5.00			3746.00	16.00 Bottom Of Top Packer
Stubb	1.00			3747.00	
Recorder	0.00	8366	Inside	3747.00	
Change Over Sub	1.00			3748.00	
Drill Pipe	61.00			3809.00	
Perforations	12.00			3821.00	
Recorder	0.00	7457	Inside	3821.00	
Blank Off Sub	1.00			3822.00	
Blank Spacing	4.00			3826.00	
Packer	0.00			3826.00	80.00 Tool Interval
Packer	6.00			3832.00	
Perforations	5.00			3837.00	
Recorder	0.00	6672	Inside	3837.00	
Drill Pipe	154.00			3991.00	
Change Over Sub	1.00			3992.00	
Perforations	23.00			4015.00	
Bullnose	3.00			4018.00	192.00 Bottom Packers & Anchor

Total Tool Length: 288.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating Inc

Brown #29-1

9915 W 21st St North Ste B
Wichita KS 67205

29 3S 28W Decatur KS

Job Ticket: 31528

DST#: 1

ATTN: Randy Kilian

Test Start: 2008.01.21 @ 21:43:08

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1700.00	Mud	19.993

Total Length: 1700.00 ft

Total Volume: 19.993 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

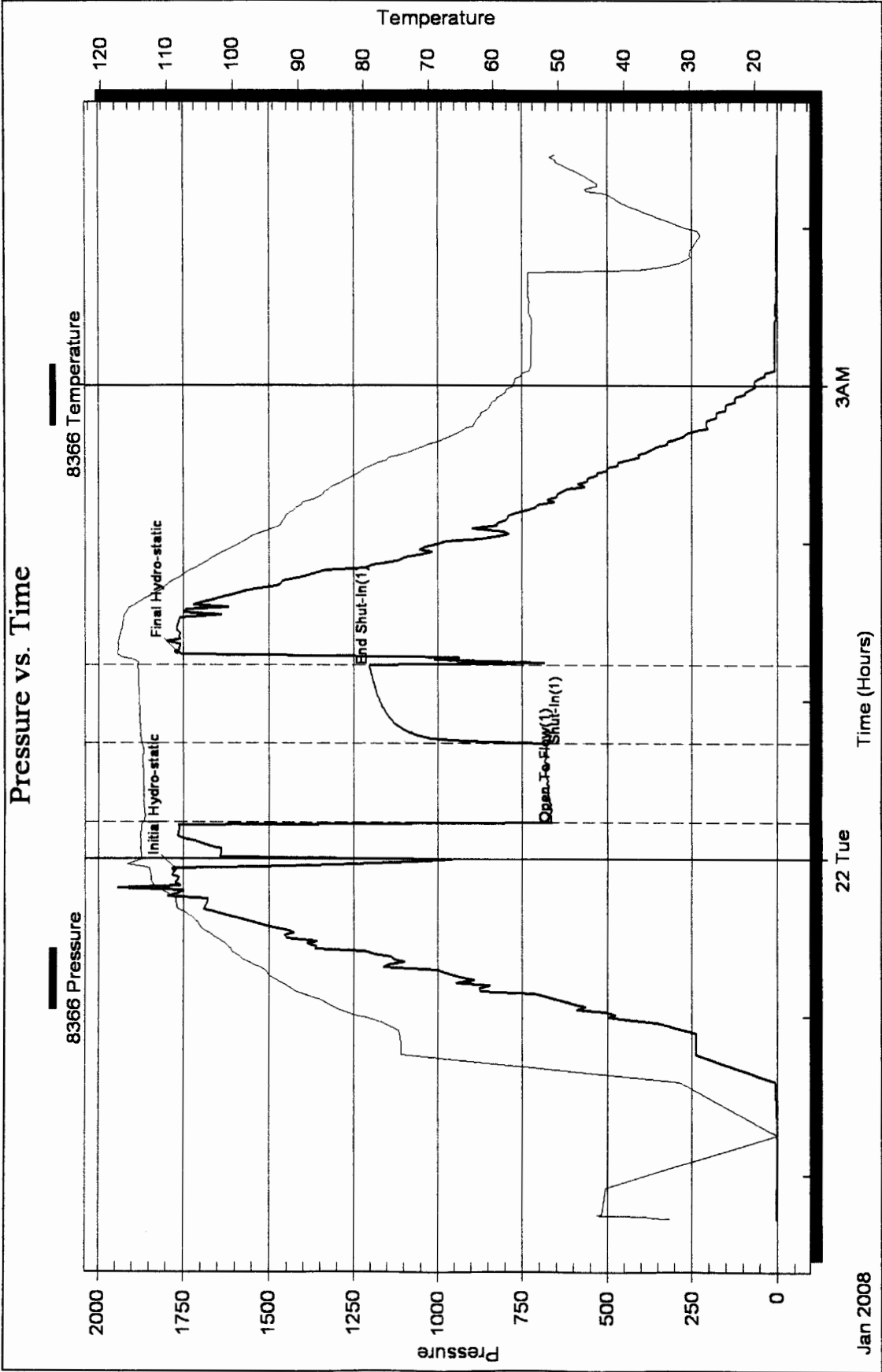
Serial #: 8366

Inside

IA Operating Inc

29 3S 28W Decatur KS

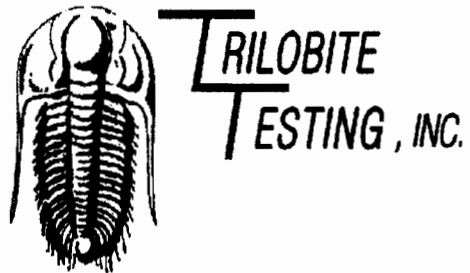
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 31528

Printed: 2008.01.24 @ 10:26:32 Page 5



DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st St North Ste B
Wichita KS 67205

ATTN: Randy Kilian

29 3S 28W Decatur KS

Brown #29-1

Start Date: 2008.01.22 @ 05:53:17

End Date: 2008.01.22 @ 14:51:17

Job Ticket #: 31529 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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DRILL STEM TEST REPORT

IA Operating Inc

9915 W 21st St North Ste B
Wichita KS 67205

ATTN: Randy Kilian

Brown #29-1

29 3S 28W Decatur KS

Job Ticket: 31529

DST#: 2

Test Start: 2008.01.22 @ 05:53:17

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:55:17

Time Test Ended: 14:51:17

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 20

Interval: **3740.00 ft (KB) To 3792.00 ft (KB) (TVD)**

Total Depth: 3985.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2745.00 ft (KB)

2740.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 136.33 psig @ 3741.00 ft (KB)

Start Date: 2008.01.22

End Date:

2008.01.22

Start Time: 05:53:22

End Time:

14:51:17

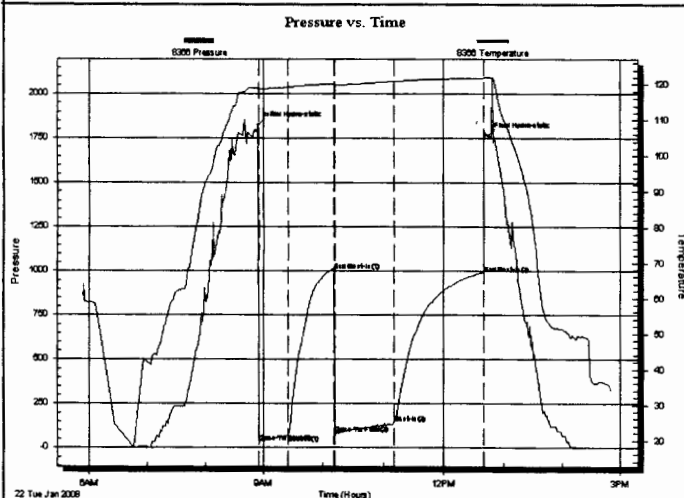
Capacity: 7000.00 psig

Last Calib.: 2008.01.22

Time On Btm: 2008.01.22 @ 08:54:47

Time Off Btm: 2008.01.22 @ 12:44:17

TEST COMMENT: IF Fair blow built to 6 " in bucket
ISI Bled off No blow back
FF Fair blow built to 7 1/4 " in bucket
FSI Bled off very slow building blow built to 1 1/8 " in bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.94	119.13	Initial Hydro-static
1	30.41	118.57	Open To Flow (1)
31	70.79	119.26	Shut-In (1)
76	1004.17	120.13	End Shut-In (1)
77	80.43	119.82	Open To Flow (2)
136	136.33	120.84	Shut-In (2)
226	988.26	121.79	End Shut-In (2)
230	1764.86	121.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 50%O 40%M 10%G	0.59
60.00	SGOM 58%M 39%O 3%G	0.30
80.00	SGOCM 67%M 30%O 3%G	0.39

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating Inc

Brown #29-1

9915 W 21st St North Ste B
Wichita KS 67205

29 3S 28W Decatur KS

Job Ticket: 31529

DST#: 2

ATTN: Randy Kilian

Test Start: 2008.01.22 @ 05:53:17

Tool Information

Drill Pipe:	Length: 3306.00 ft	Diameter: 3.80 inches	Volume: 46.37 bbl	Tool Weight: 3200.00 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: 423.00 ft	Diameter: 2.25 inches	Volume: 2.08 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 48.45 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3740.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3792.00 ft			
Interval between Packers:	52.00 ft			
Tool Length:	261.00 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			3729.00	
Hydraulic tool	5.00			3734.00	
Change Over Sub	1.00			3735.00	
Packer	5.00			3740.00	16.00 Bottom Of Top Packer
Stubb	1.00			3741.00	
Recorder	0.00	8366	Inside	3741.00	
Change Over Sub	1.00			3742.00	
Drill Pipe	30.00			3772.00	
Perforations	15.00			3787.00	
Recorder	0.00	7457	Inside	3787.00	
Blank Off Sub	1.00			3788.00	
Blank Spacing	4.00			3792.00	
Packer	0.00			3792.00	52.00 Tool Interval
Packer	6.00			3798.00	
Recorder	0.00	6672	Inside	3798.00	
Drill Pipe	154.00			3952.00	
Change Over Sub	1.00			3953.00	
Perforations	29.00			3982.00	
Bullnose	3.00			3985.00	193.00 Bottom Packers & Anchor
Total Tool Length:		261.00			



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Job Ticket: 31529

DST#: 2

ATTN: Randy Kilian

Test Start: 2008.01.22 @ 05:53:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMO 50%O 40%M 10%G	0.590
60.00	SGOM 58%M 39%O 3%G	0.295
80.00	SGOCM 67%M 30%O 3%G	0.393

Total Length: 260.00 ft

Total Volume: 1.278 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

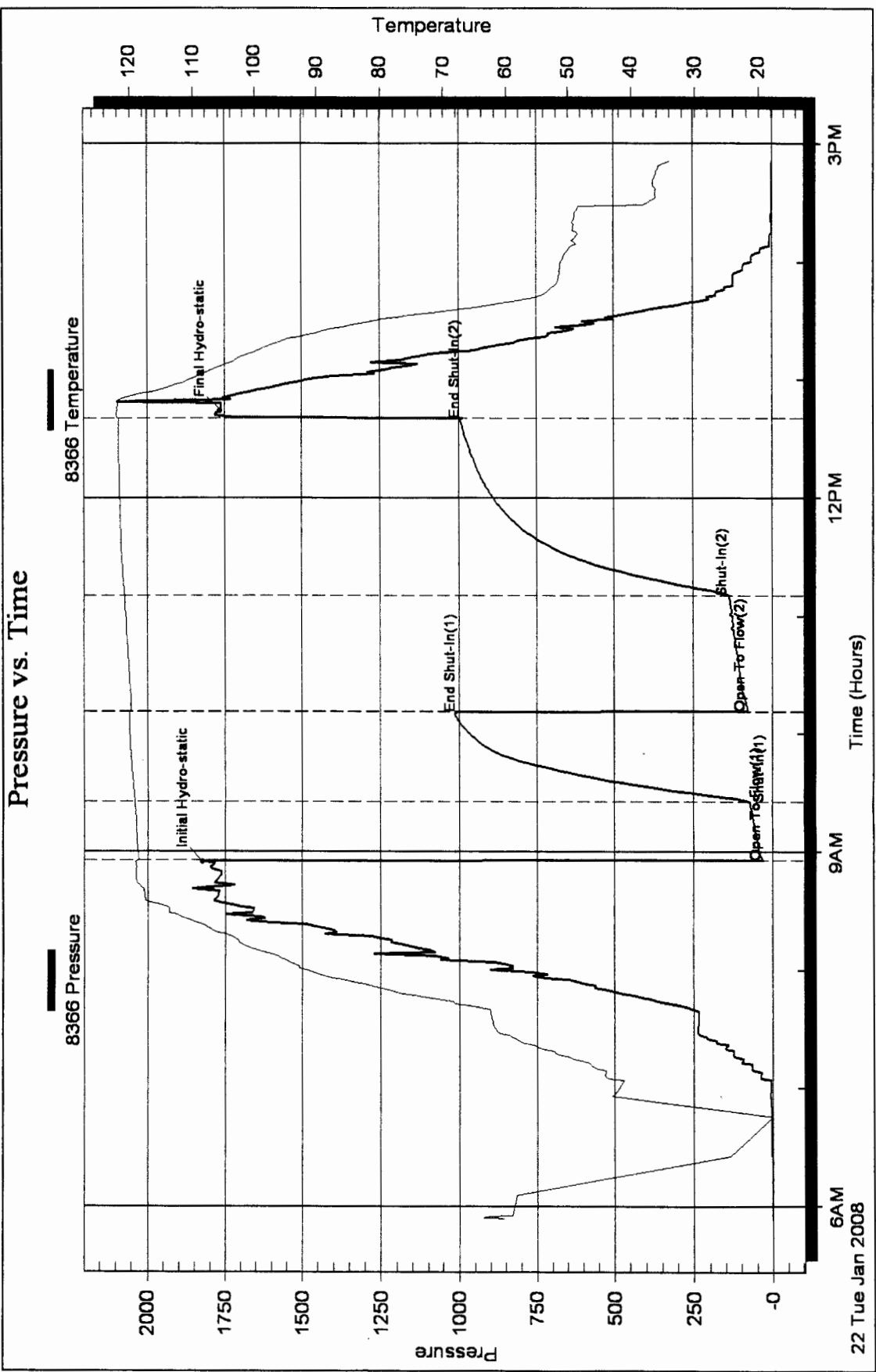
Inside

IA Operating Inc

29 3S 28W Decatur KS

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 31529

Printed: 2008.01.24 @ 10:27:15 Page 5