

DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum, Inc.**

126 E Main P.O. Box 360 Valley Center, KS
67147

ATTN: Brad Rine

19 31 30 Meade KS

Barb A 1-19

Start Date: 2008.12.15 @ 14:01:10

End Date: 2008.12.16 @ 06:09:49

Job Ticket #: 31042 DST #: 1

KCC
MAR 2 5 2009
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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KANSAS CORPORATION COMMISSION
MAR 2 5 2009
CONSERVATION DIVISION
WICHITA, KS

Daystar Petroleum, Inc.

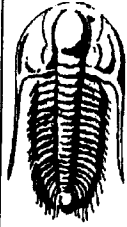
Barb A 1-19

19 31 30 Meade KS

DST # 1

Swope

2008.12.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

ATTN: Brad Rine

Job Ticket: 31042

DST#: 1

Test Start: 2008.12.15 @ 14:01:10

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:39:39

Time Test Ended: 06:09:49

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **4755.00 ft (KB) To 4780.00 ft (KB) (TVD)**

Total Depth: 4780.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2771.00 ft (KB)

2760.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 173.59 psig @ 4757.00 ft (KB)

Start Date: 2008.12.15

End Date:

2008.12.16

Capacity: 7000.00 psig

Last Calib.: 2008.12.16

Start Time: 14:01:10

End Time:

06:09:49

Time On Btm: 2008.12.15 @ 18:38:59

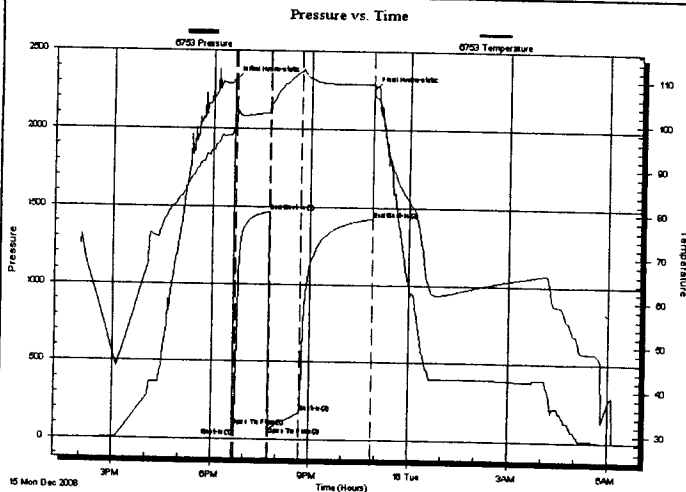
Time Off Btm: 2008.12.15 @ 22:54:09

TEST COMMENT: IF: BOB 1 min., strong building blow

IS: No blow back

FF: BOB ASAO, GTS 35 min., strong dying blow (Gas TSTG)

FS: Blow back 30 sec., 3 inches in 120 min.



PRESSURE SUMMARY

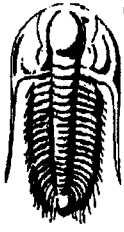
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2310.30	98.66	Initial Hydro-static
1	85.05	98.90	Open To Flow (1)
4	72.36	100.77	Shut-in(1)
66	1466.89	102.33	End Shut-in(1)
67	83.36	104.41	Open To Flow (2)
125	173.59	111.68	Shut-in(2)
255	1428.05	108.94	End Shut-in(2)
256	2253.66	110.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gassy muddy water 5%G,90%W,5%M	0.89
125.00	gasy muddy watery oil 25%G,55%O,5%W,1.18%M	
124.00	muddy gasy watery oil 50%G,30%O,15%W,1.74%M	

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

Job Ticket: 31042

DST#: 1

ATTN: Brad Rine

Test Start: 2008.12.15 @ 14:01:10

Tool Information

Drill Pipe:	Length: 4491.00 ft	Diameter: 3.80 inches	Volume: 63.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4755.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4728.00	
Shut In Tool	5.00			4733.00	
Hydraulic tool	5.00			4738.00	
Jars	5.00			4743.00	
Safety Joint	3.00			4746.00	
Packer	5.00			4751.00	28.00 Bottom Of Top Packer
Packer	4.00			4755.00	
Stubb	1.00			4756.00	
Perforations	1.00			4757.00	
Recorder	0.00	8374	Inside	4757.00	
Recorder	0.00	6753	Inside	4757.00	
Perforations	20.00			4777.00	
Bullnose	3.00			4780.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

Job Ticket: 31042

DST#: 1

ATTN: Brad Rine

Test Start: 2008.12.15 @ 14:01:10

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: 50000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
180.00	gassy muddy water 5%G,90%W,5%M	0.885
125.00	gasy muddy watery oil 25%G,55%O,5%W,15%	1.180
124.00	mudy gasy watery oil 50%G,30%O,15%W,5%	1.739

Total Length: 429.00 ft

Total Volume: 3.804 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

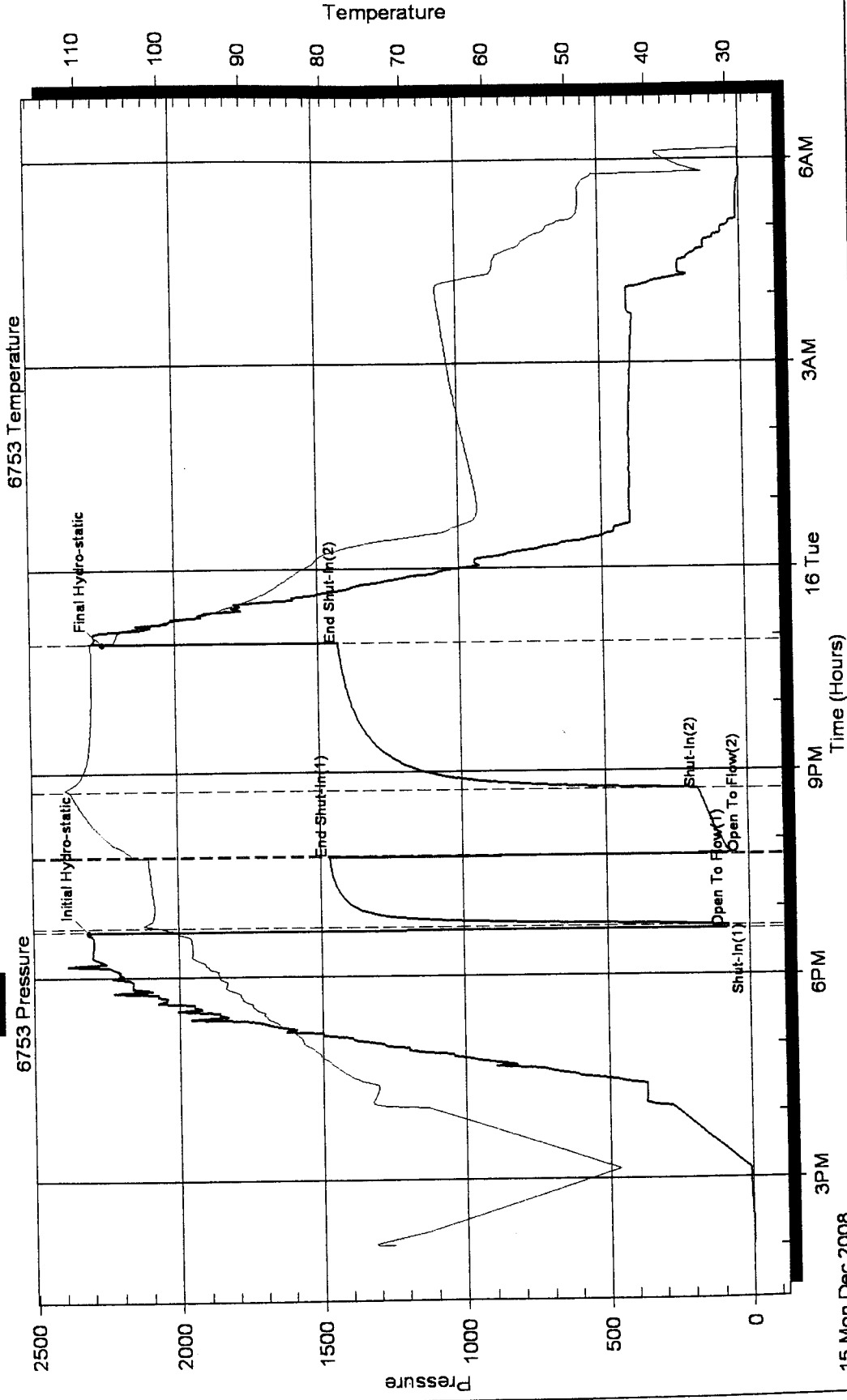
Laboratory Name: Caraway

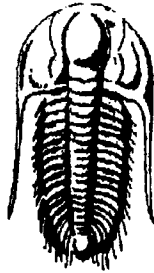
Laboratory Location: Liberal, KS

Recovery Comments: 4305' GIP

RW=173@63=50,000ppm

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum, Inc.**

126 E Main P.O. Box 360 Valley Center, KS
67147

ATTN: Brad Rine

19 31 30 Meade KS

Barb A 1-19

Start Date: 2008.12.19 @ 04:45:37

End Date: 2008.12.19 @ 16:53:06

Job Ticket #: 31043 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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CONSERVATION DIVISION
WICHITA, KS



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

Job Ticket: 31043

DST#: 2

ATTN: Brad Rine

Test Start: 2008.12.19 @ 04:45:37

GENERAL INFORMATION:

Formation: **Chester/Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:58:36
 Time Test Ended: 16:53:06

Test Type: Conventional Bottom Hole
 Tester: Chris Hagman
 Unit No: 34

Interval: **5375.00 ft (KB) To 5655.00 ft (KB) (TVD)**
 Total Depth: 5655.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2771.00 ft (KB)
 2760.00 ft (CF)
 KB to GRVCF: 11.00 ft

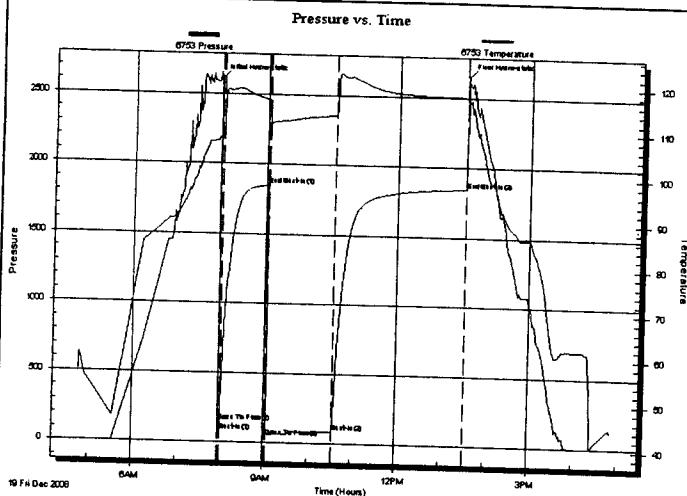
Serial #: 6753

Inside

Press@RunDepth: 81.29 psig @ 5377.00 ft (KB)
 Start Date: 2008.12.19 End Date: 2008.12.19
 Start Time: 04:45:37 End Time: 16:53:06

Capacity: 7000.00 psig
 Last Calib.: 2008.12.19
 Time On Btm: 2008.12.19 @ 07:57:06
 Time Off Btm: 2008.12.19 @ 13:32:56

TEST COMMENT: IF: BOB 30 sec., strong building blow
 IS: No blow back
 FF: BOB GTS ASAO, strong steady blow
 FS: No blow back



PRESSURE SUMMARY

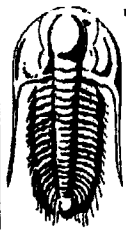
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2606.51	107.73	Initial Hydro-static
2	143.19	109.27	Open To Flow (1)
4	76.27	109.31	Shut-In(1)
66	1847.92	116.43	End Shut-In(1)
68	104.90	111.30	Open To Flow (2)
157	81.29	113.27	Shut-In(2)
335	1840.96	117.75	End Shut-In(2)
336	2652.85	115.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gassy mud 5%G,95%M	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	8.00	151.10
Last Gas Rate	0.38	18.00	118.69
Max. Gas Rate	0.38	18.00	118.69



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

Job Ticket: 31043

DST#: 2

ATTN: Brad Rine

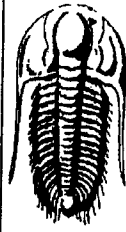
Test Start: 2008.12.19 @ 04:45:37

Tool Information

Drill Pipe:	Length: 5123.00 ft	Diameter: 3.80 inches	Volume: 71.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	73.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	5375.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	280.00 ft			
Tool Length:	308.00 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			5348.00	
Shut In Tool	5.00			5353.00	
Hydraulic tool	5.00			5358.00	
Jars	5.00			5363.00	
Safety Joint	3.00			5366.00	
Packer	5.00			5371.00	28.00 Bottom Of Top Packer
Packer	4.00			5375.00	
Stubb	1.00			5376.00	
Perforations	1.00			5377.00	
Recorder	0.00	8374	Inside	5377.00	
Recorder	0.00	6753	Inside	5377.00	
Perforations	25.00			5402.00	
Change Over Sub	1.00			5403.00	
Drill Pipe	248.00			5651.00	
Change Over Sub	1.00			5652.00	
Bullnose	3.00			5655.00	280.00 Bottom Packers & Anchor
Total Tool Length:	308.00				



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FLUID SUMMARY

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

Job Ticket: 31043

DST#: 2

ATTN: Brad Rine

Test Start: 2008.12.19 @ 04:45:37

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:

3600 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gassy mud 5%G,95%M	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

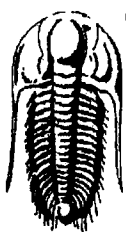
Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: 5246' GIP

RW=1.990@60F=3600ppm



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Daystar Petroleum, Inc.

Barb A 1-19

126 E Main P.O. Box 360 Valley Center, KS 67147

19 31 30 Meade KS

Job Ticket: 31043

DST#: 2

ATTN: Brad Rine

Test Start: 2008.12.19 @ 04:45:37

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.50	8.00	151.10
2	10	0.50	8.00	151.10
2	20	0.50	6.00	137.61
2	30	0.50	4.00	124.12
2	40	0.38	15.00	107.70
2	50	0.38	18.00	118.69
2	60	0.38	17.00	115.03
2	70	0.38	17.00	115.03
2	80	0.38	18.00	118.69

Serial #: 6753

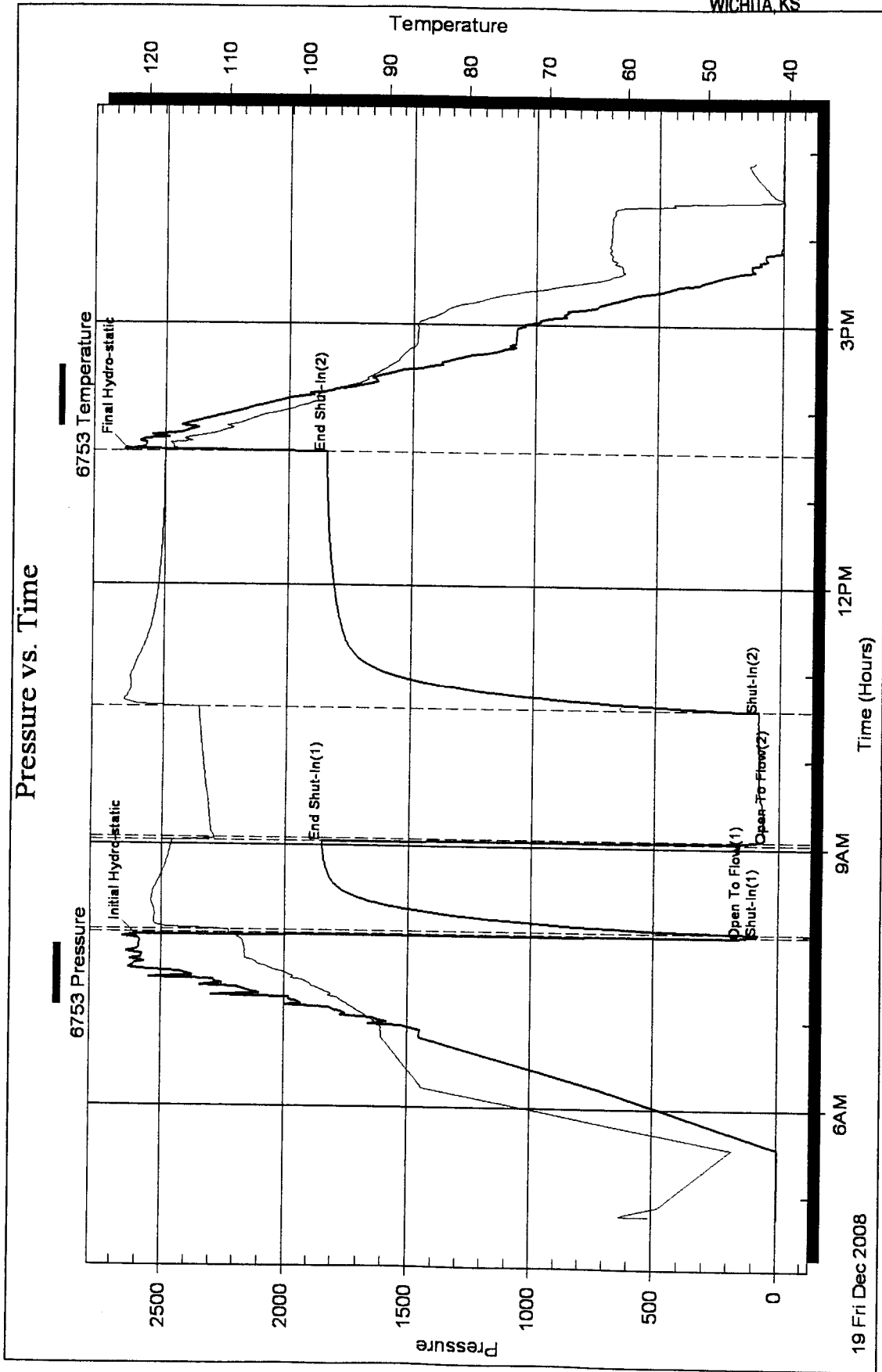
Inside

Daystar Petroleum, Inc.

19 31 30 Meade KS

DST Test Number: 2

Pressure vs. Time



19 Fri Dec 2008

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KANSAS CORPORATION COMMISSION

MAR 25 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

Ref. No: 31043

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