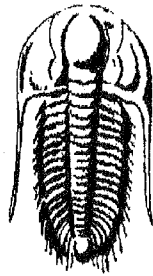


14-115-16w

15-051-25832-0000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

9915 W 21st Street N.
Wichita, KS 67206

ATTN: Randy Kilian

14 11 16 Ellis KS

Farmer #14-1

Start Date: 2008.10.12 @ 12:07:31

End Date: 2008.10.12 @ 19:56:01

Job Ticket #: 34286 DST #: 1

Trilobite Testing, Inc

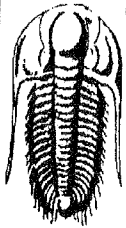
PO Box 1733 Hays, KS 67601

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

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

IA Operating, Inc.

9915 W 21st Street N.
Wichita, KS 67206

ATTN: Randy Kilian

Farmer #14-1

14 11 16 Ellis KS

Job Ticket: 34286

DST#: 1

Test Start: 2008.10.12 @ 12:07:31

GENERAL INFORMATION:

Formation: **LKC-"C-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:18:01

Time Test Ended: 19:56:01

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3096.00 ft (KB) To 3180.00 ft (KB) (TVD)

Total Depth: 3180.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1854.00 ft (KB)

1849.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 111.92 psig @ 3100.00 ft (KB)

Start Date: 2008.10.12

End Date: 2008.10.12

Start Time: 12:07:33

End Time: 19:56:01

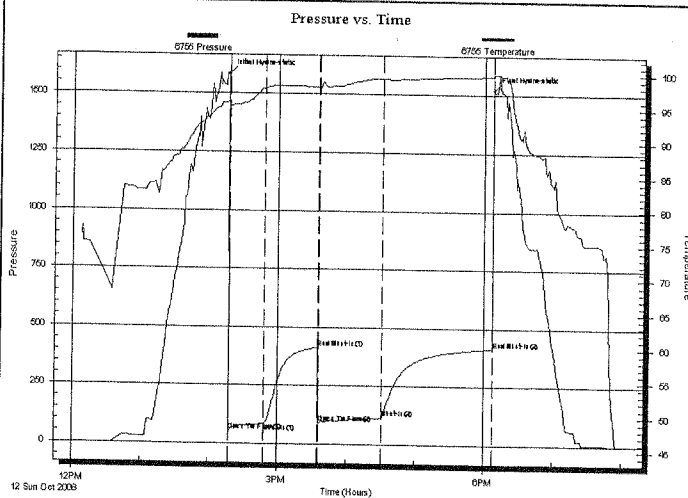
Capacity: 7000.00 psig

Last Calib.: 2008.10.13

Time On Btm: 2008.10.12 @ 14:17:31

Time Off Btm: 2008.10.12 @ 18:08:01

TEST COMMENT: IFP Fair Blow BOB in 25 min
ISI Blow back built to .5"
FFP Fair blow, BOB in 30 min
FSI Blow back built to



PRESSURE SUMMARY

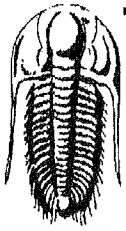
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.70	95.79	Initial Hydro-static
1	52.44	95.27	Open To Flow (1)
31	83.73	97.80	Shut-In(1)
78	413.32	98.03	End Shut-In(1)
78	89.56	97.90	Open To Flow (2)
134	111.92	99.31	Shut-In(2)
230	411.90	99.70	End Shut-In(2)
231	1522.40	100.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	HOCM-25%-O-75%M W/Trace Water	1.27
45.00	Free Oil	0.63
0.00	240 Gas In Pipe	0.00

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.

Farmer #14-1

9915 W 21st Street N.
Wichita, KS 67206

14 11 16 Ellis KS

Job Ticket: 34286

DST#: 1

ATTN: Randy Kilian

Test Start: 2008.10.12 @ 12:07:31

Tool Information

Drill Pipe:	Length: 3075.00 ft	Diameter: 3.80 inches	Volume: 43.13 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	43.28 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3096.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	84.00 ft				
Tool Length:	105.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3076.00	
Shut In Tool	5.00			3081.00	
Hydraulic tool	5.00			3086.00	
Packer	5.00			3091.00	21.00 Bottom Of Top Packer
Packer	5.00			3096.00	
Stubb	1.00			3097.00	
Perforations	2.00			3099.00	
Recorder	0.00	8360	Inside	3099.00	
Change Over Sub	1.00			3100.00	
Recorder	0.00	6755	Inside	3100.00	
Blank Spacing	63.00			3163.00	
Change Over Sub	1.00			3164.00	
Perforations	13.00			3177.00	
Bullnose	3.00			3180.00	84.00 Bottom Packers & Anchor

Total Tool Length: 105.00

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WICHITA KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating, Inc.

Farmer #14-1

9915 W 21st Street N.
Wichita, KS 67206

14 11 16 Ellis KS

Job Ticket: 34286

DST#: 1

ATTN: Randy Kilian

Test Start: 2008.10.12 @ 12:07:31

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

33 deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	HOCM-25%O-75%M W/Trace Water	1.270
45.00	Free Oil	0.631
0.00	240 Gas In Pipe	0.000

Total Length: 155.00 ft

Total Volume: 1.901 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

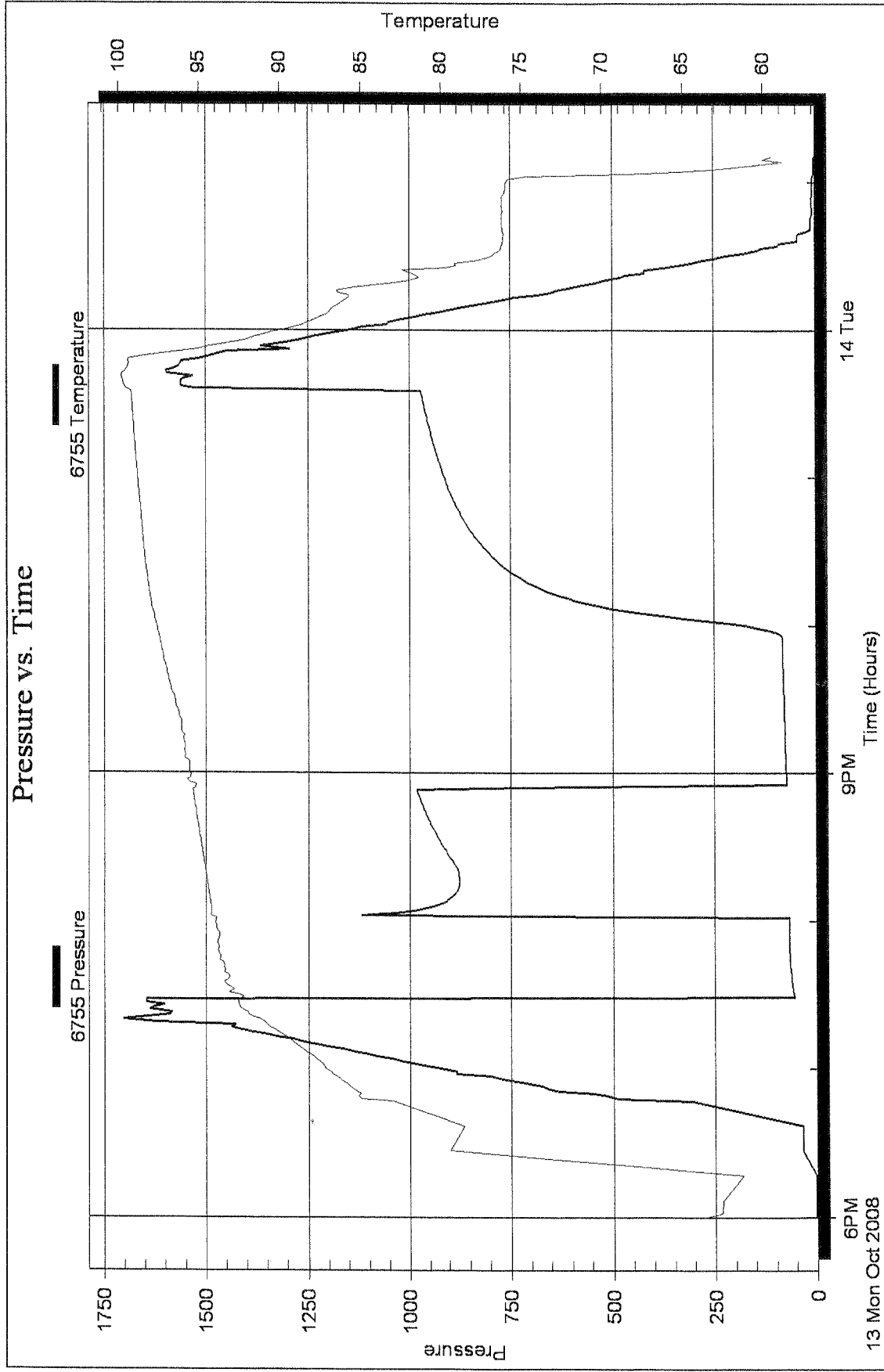
Serial #:

Laboratory Name:

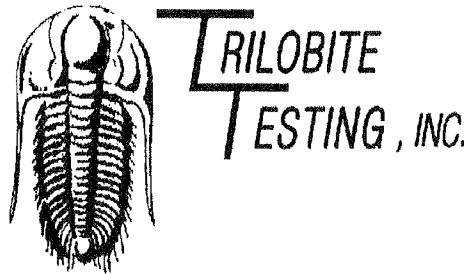
Laboratory Location:

Recovery Comments:

Pressure vs. Time



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MICHIGAN
SA WILSON



DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

9915 W 21st Street N.
Wichita, KS 67206

ATTN: Randy Kilian

14 11 16 Ellis KS

Farmer #14-1

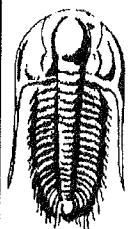
Start Date: 2008.10.13 @ 18:02:51

End Date: 2008.10.14 @ 01:13:21

Job Ticket #: 34287 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

IA Operating, Inc.

9915 W 21st Street N.
Wichita, KS 67206

ATTN: Randy Kilian

Farmer #14-1

14 11 16 Ellis KS

Job Ticket: 34287

DST#: 2

Test Start: 2008.10.13 @ 18:02:51

GENERAL INFORMATION:

Formation: **LKC-"I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:31:51

Time Test Ended: 01:13:21

Test Type: Conventional Bottom Hole

Tester: Jason McLemore-Brett

Unit No: 32

Interval: 3218.00 ft (KB) To 3310.00 ft (KB) (TVD)

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1854.00 ft (KB)

1849.00 ft (CF)

KB to GRV/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 79.49 psig @ 3221.00 ft (KB)

Start Date: 2008.10.13

End Date: 2008.10.14

Capacity: 7000.00 psig

Last Calib.: 2008.10.14

Start Time: 18:02:53

End Time: 01:13:21

Time On Btm: 2008.10.13 @ 19:30:51

Time Off Btm: 2008.10.13 @ 23:39:21

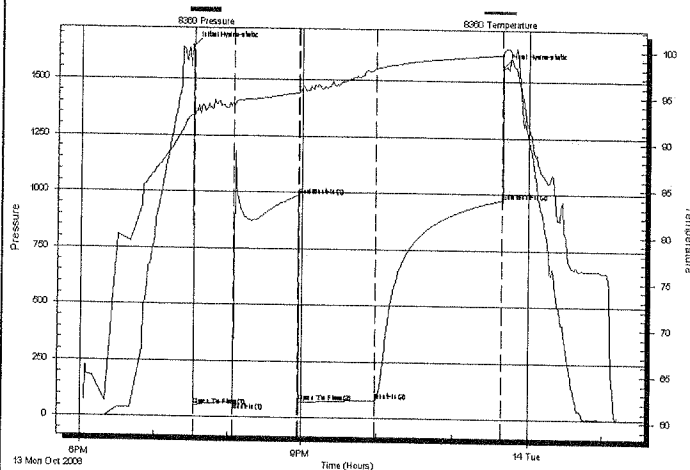
TEST COMMENT: IFP-Weak Blow, Built to 2-1/8"

ISI-Dead

FFP-Weak Surface Blow After 15 Mn, Lasted Throughout

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1646.66	92.82	Initial Hydro-static
1	50.44	92.85	Open To Flow (1)
33	66.83	93.86	Shut-In(1)
86	985.10	95.32	End Shut-In(1)
87	68.42	95.42	Open To Flow (2)
148	79.49	97.97	Shut-In(2)
248	972.82	99.57	End Shut-In(2)
249	1566.87	100.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Oil spotted Mud	0.71

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.

Farmer #14-1

9915 W 21st Street N.
Wichita, KS 67206

14 11 16 Ellis KS

Job Ticket: 34287

DST#: 2

ATTN: Randy Killian

Test Start: 2008.10.13 @ 18:02:51

Tool Information

Drill Pipe:	Length: 3198.00 ft	Diameter: 3.80 inches	Volume: 44.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	45.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3218.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	113.00 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			3198.00	
Shut In Tool	5.00			3203.00	
Hydraulic tool	5.00			3208.00	
Packer	5.00			3213.00	21.00 Bottom Of Top Packer
Packer	5.00			3218.00	
Stubb	1.00			3219.00	
Perforations	2.00			3221.00	
Recorder	0.00	8360	Inside	3221.00	
Change Over Sub	1.00			3222.00	
Recorder	0.00	6755	Inside	3222.00	
Blank Spacing	64.00			3286.00	
Change Over Sub	1.00			3287.00	
Perforations	20.00			3307.00	
Bullnose	3.00			3310.00	92.00 Bottom Packers & Anchor

Total Tool Length: 113.00

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating, Inc.

Farmer #14-1

9915 W 21st Street N.
Wichita, KS 67206

14 11 16 Ellis KS

Job Ticket: 34287

DST#: 2

ATTN: Randy Kilian

Test Start: 2008.10.13 @ 18:02:51

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 6000.00 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
70.00	Oil spotted Mud	0.709

Total Length: 70.00 ft

Total Volume: 0.709 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

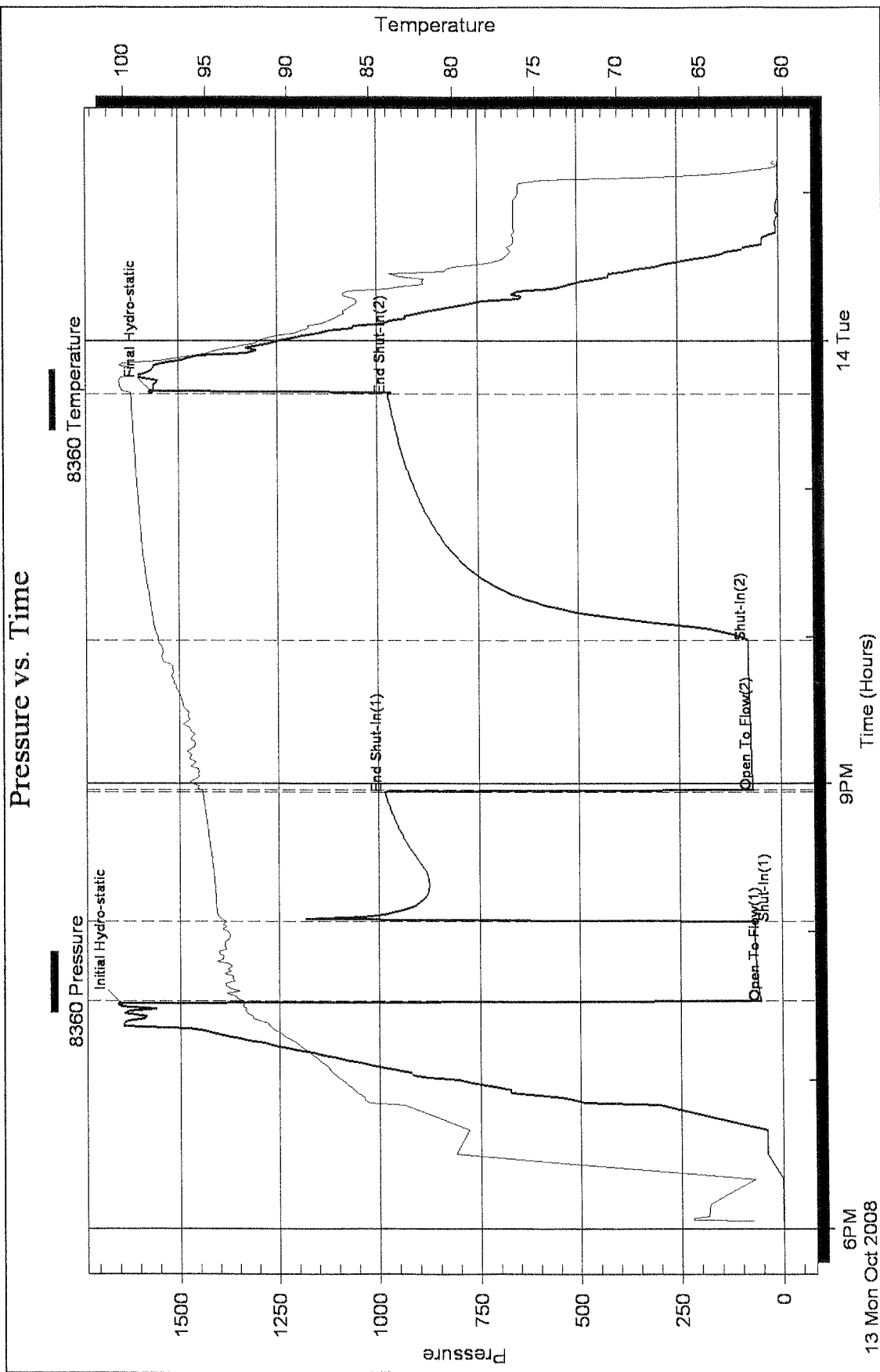
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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WICHITA KS

Ref. No: 34287

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