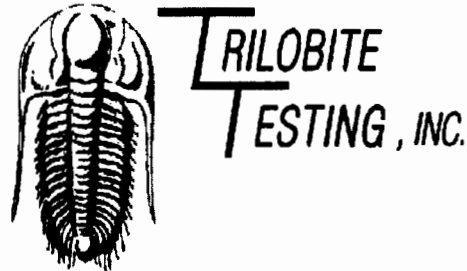


15-163-23730

3-95-18W



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

P O Box 86
Plainville Ks 67663-0086

ATTN: Charles Ramsay

3 9 18 Rooks KS

Kriley #1

Start Date: 2008.08.25 @ 07:05:43

End Date: 2008.08.25 @ 13:52:07

Job Ticket #: 33076 DST #: 1

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CONSERVATION DIVISION
WICHITA, KS

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

H&C Oil Operating Inc

Kriley #1

3 9 18 Rooks KS

DST # 1

LKC C-D

2008.08.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc

P O Box 86
Plainville Ks 67663-0086

ATTN: Charles Ramsay

Kriley #1

3 9 18 Rooks KS

Job Ticket: 33076

DST#: 1

Test Start: 2008.08.25 @ 07:05:43

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:36:38

Time Test Ended: 13:52:07

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3213.00 ft (KB) To 3260.00 ft (KB) (TVD)**

Total Depth: **3260.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2004.00 ft (KB)**

1997.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8365 **Inside**

Press@RunDepth: **64.91 psig @ 3225.01 ft (KB)**

Start Date: **2008.08.25**

End Date: **2008.08.25**

Start Time: **07:05:43**

End Time: **13:52:07**

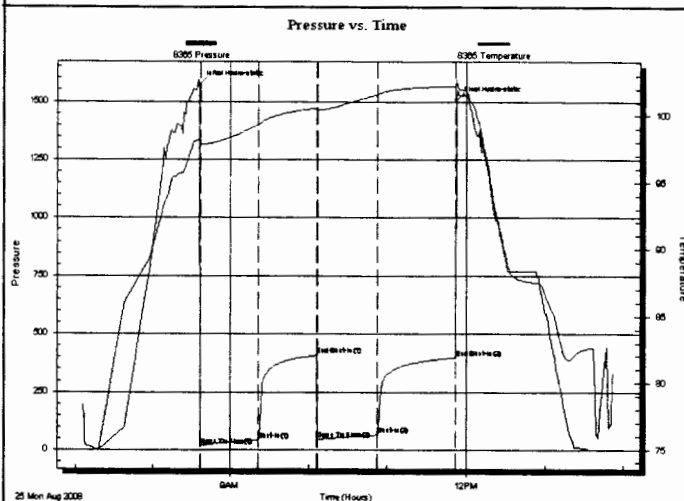
Capacity: **7000.00 psig**

Last Calib.: **2008.08.25**

Time On Btm: **2008.08.25 @ 08:36:08**

Time Off Btm: **2008.08.25 @ 11:52:37**

TEST COMMENT: IFP w k bl thru-out 1/4" to 1 3/4" bl
FFP w k bl thru-out 1/2" to 1 1/2" bl
Times 45-45-45-60
Ran 60min final shut-in rig broke down could not pull loose



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.67	98.31	Initial Hydro-static
1	18.52	97.85	Open To Flow (1)
46	42.48	99.35	Shut-In(1)
90	408.64	100.56	End Shut-In(1)
91	44.83	100.41	Open To Flow (2)
137	64.91	101.58	Shut-In(2)
196	398.15	102.21	End Shut-In(2)
197	1508.38	102.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MW 20%MB0%W	0.42
60.00	Water	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

Kriley #1

P O Box 86
Plainville Ks 67663-0086

3 9 18 Rooks KS

Job Ticket: 33076

DST#: 1

ATTN: Charles Ramsay

Test Start: 2008.08.25 @ 07:05:43

Tool Information

Drill Pipe:	Length: 3216.00 ft	Diameter: 3.80 inches	Volume: 45.11 bbl	Tool Weight:	2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 45.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3213.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.02 ft				
Tool Length:	68.02 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			3193.00	
Shut In Tool	5.00			3198.00	
Hydraulic tool	5.00			3203.00	
Packer	5.00			3208.00	21.00 Bottom Of Top Packer
Packer	5.00			3213.00	
Stubb	1.00			3214.00	
Perforations	11.00			3225.00	
Recorder	0.01	8365	Inside	3225.01	
Recorder	0.01	6625	Outside	3225.02	
Blank Spacing	32.00			3257.02	
Bullnose	3.00			3260.02	47.02 Bottom Packers & Anchor

Total Tool Length: 68.02

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WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

Kriley #1

P O Box 86
Plainville Ks 67663-0086

3 9 18 Rooks KS

Job Ticket: 33076

DST#: 1

ATTN: Charles Ramsay

Test Start: 2008.08.25 @ 07:05:43

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:

44000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MW 20%MB0%W	0.421
60.00	Water	0.842

Total Length: 90.00 ft

Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .14 @ 83F

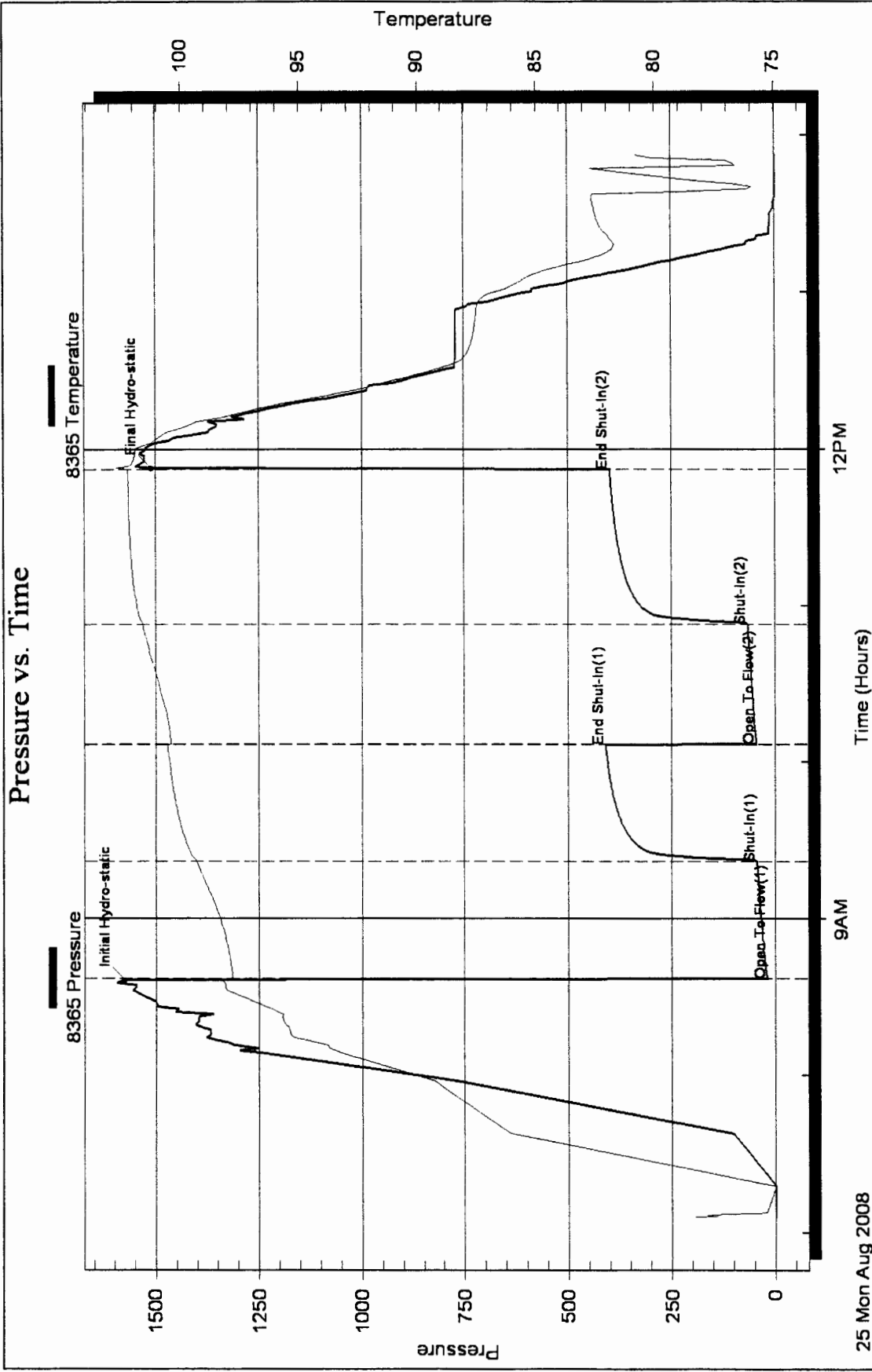
Serial #: 8365

Inside

H&C Oil Operating Inc

3 9 18 Rooks KS

DST Test Number: 1



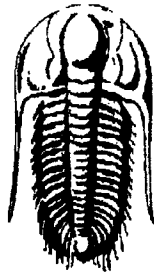
Trilobite Testing, Inc

Ref. No: 33076

CONSERVATION DIVISION
WICHITA, KS

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

P O Box 86
Plainville Ks 67663-0086

ATTN: Charles Ramsay

3 9 18 Rooks KS

Kriley #1

Start Date: 2008.08.26 @ 00:53:55

End Date: 2008.08.26 @ 06:59:49

Job Ticket #: 33077 DST #: 2

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CONSERVATION DIVISION
WICHITA, KS

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc

P O Box 86
Plainville Ks 67663-0086

ATTN: Charles Ramsay

Kriley #1

3 9 18 Rooks KS

Job Ticket: 33077

DST#: 2

Test Start: 2008.08.26 @ 00:53:55

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 02:21:50

Time Test Ended: 06:59:49

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3331.00 ft (KB) To 3368.00 ft (KB) (TVD)**

Total Depth: **3368.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2004.00 ft (KB)**

1997.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8365

Inside

Press@RunDepth: **71.96 psig @ 3339.01 ft (KB)**

Start Date: **2008.08.26**

End Date:

2008.08.26

Start Time: **00:53:55**

End Time:

06:59:49

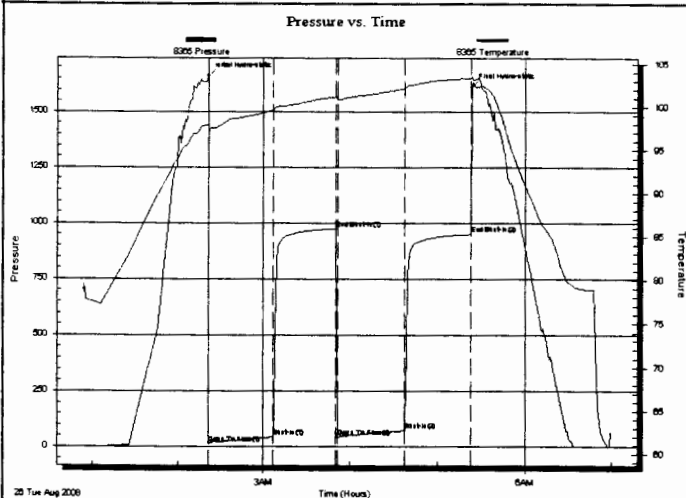
Capacity: **7000.00 psig**

Last Calib.: **2008.08.26**

Time On Btm: **2008.08.26 @ 02:21:20**

Time Off Btm: **2008.08.26 @ 05:22:49**

TEST COMMENT: IFP w k bl thru-out 1/4" to 2" bl
FFP w k bl thru-out surface to 1" bl
45-45-45-45
no bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.35	97.94	Initial Hydro-static
1	13.78	96.87	Open To Flow (1)
46	42.81	99.67	Shut-In(1)
89	975.24	101.19	End Shut-In(1)
90	44.39	100.92	Open To Flow (2)
136	71.96	102.15	Shut-In(2)
181	950.76	103.37	End Shut-In(2)
182	1609.84	103.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Water	1.75

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

Kriley #1

P O Box 86
Plainville Ks 67663-0086

3 9 18 Rooks KS

Job Ticket: 33077

DST#: 2

ATTN: Charles Ramsay

Test Start: 2008.08.26 @ 00:53:55

Tool Information

Drill Pipe:	Length: 3340.00 ft	Diameter: 3.80 inches	Volume: 46.85 bbl	Tool Weight:	2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 46.85 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3331.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.02 ft				
Tool Length:	58.02 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			3311.00	
Shut In Tool	5.00			3316.00	
Hydraulic tool	5.00			3321.00	
Packer	5.00			3326.00	21.00 Bottom Of Top Packer
Packer	5.00			3331.00	
Stubb	1.00			3332.00	
Perforations	7.00			3339.00	
Recorder	0.01	8365	Inside	3339.01	
Recorder	0.01	6625	Outside	3339.02	
Perforations	26.00			3365.02	
Bullnose	3.00			3368.02	37.02 Bottom Packers & Anchor

Total Tool Length: 58.02

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WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

Kriley #1

P O Box 86
Plainville Ks 67663-0086

3 9 18 Rooks KS

Job Ticket: 33077

DST#: 2

ATTN: Charles Ramsay

Test Start: 2008.08.26 @ 00:53:55

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:

35000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Water	1.753

Total Length: 125.00 ft

Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

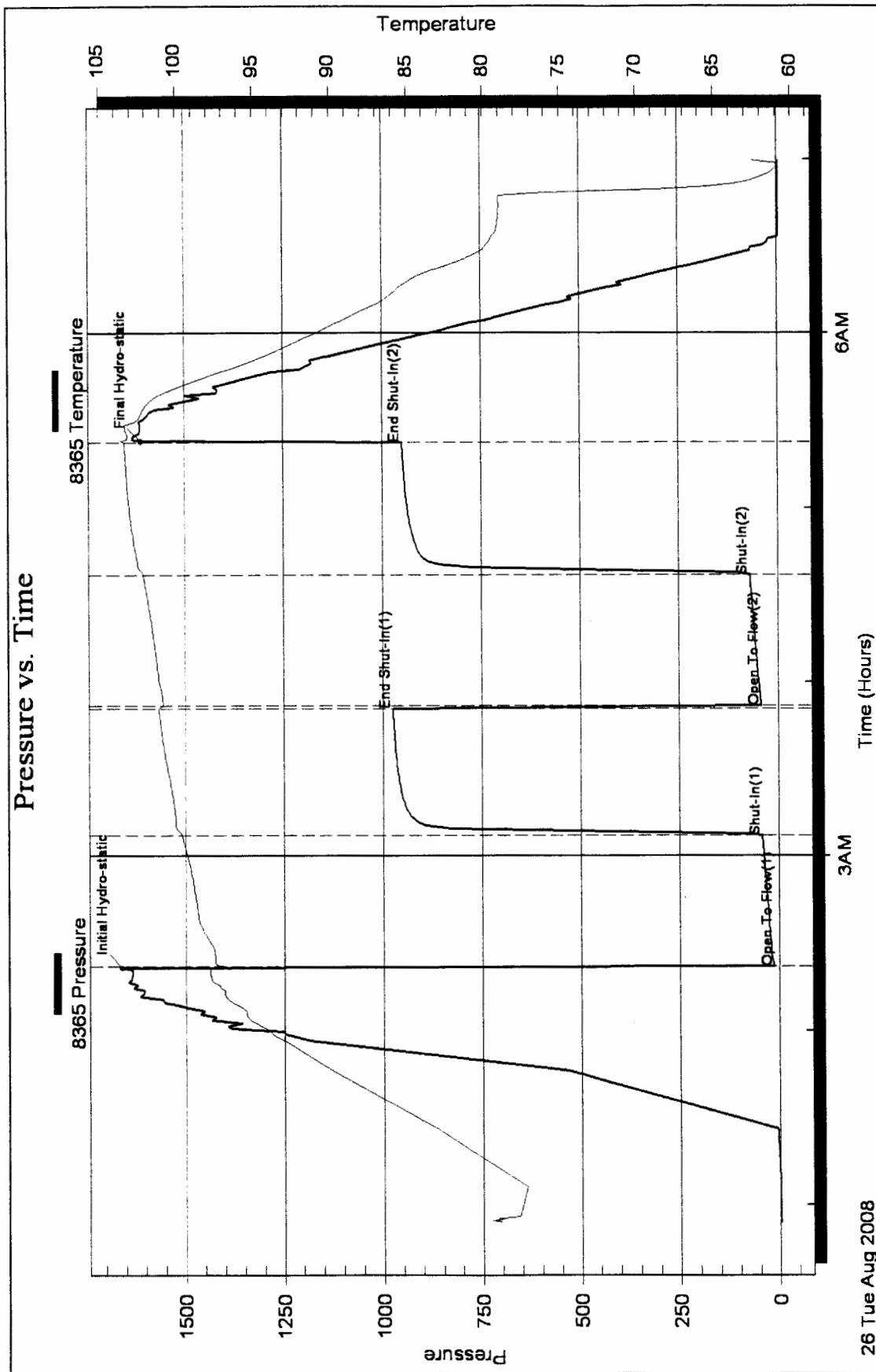
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .21 @ 72F

Pressure vs. Time



CONSERVATION DIVISION
WICHITA, KS

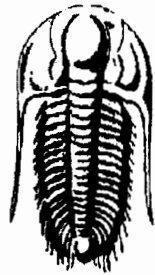
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Trilobite Testing, Inc



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DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

P O Box 86
Plainville Ks 67663-0086

ATTN: Charles Ramsay

3 9 18 Rooks KS

Kriley #1

Start Date: 2008.08.26 @ 19:18:06

End Date: 2008.08.26 @ 23:27:36

Job Ticket #: 32751 DST #: 3

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

H&C Oil Operating Inc

P O Box 86
Plainville Ks 67663-0086

ATTN: Charles Ramsay

Kriley #1

3 9 18 Rooks KS

Job Ticket: 32751

DST#: 3

Test Start: 2008.08.26 @ 19:18:06

GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:43:06

Time Test Ended: 23:27:36

Test Type: Conventional Straddle

Tester: Kyle Kinderknecht

Unit No: 31

Interval: **3372.00 ft (KB) To 3393.00 ft (KB) (TVD)**

Total Depth: 3455.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2004.00 ft (KB)

1997.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8319 Inside

Press@RunDepth: psig @ 3384.00 ft (KB)

Start Date: 2008.08.26

End Date: 2008.08.26

Start Time: 19:18:11

End Time: 23:27:36

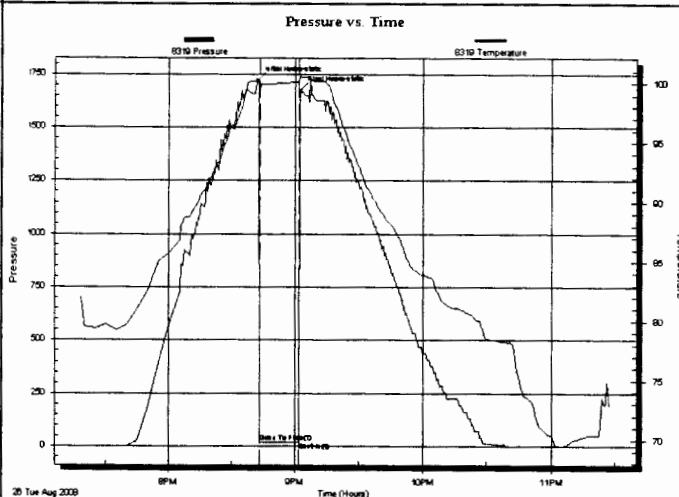
Capacity: 7000.00 psig

Last Calib.: 2008.08.26

Time On Btm: 2008.08.26 @ 20:42:06

Time Off Btm: 2008.08.26 @ 21:02:36

TEST COMMENT: IF Weak blow died 5 min flushed tool @ 15 min surge then died



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.90	100.19	Initial Hydro-static
1	18.96	99.27	Open To Flow (1)
20	20.19	100.11	Shut-In (1)
21	1675.38	100.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted mud	0.07

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

Kriley #1

P O Box 86
Plainville Ks 67663-0086

3 9 18 Rooks KS

Job Ticket: 32751

DST#: 3

ATTN: Charles Ramsay

Test Start: 2008.08.26 @ 19:18:06

Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 bbl	Tool Weight:	2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			Total Volume: 47.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3372.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	3393.00 ft				
Interval between Packers:	21.00 ft				
Tool Length:	103.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3353.00	
Shut In Tool	5.00			3358.00	
Hydraulic tool	5.00			3363.00	
Packer	4.00			3367.00	20.00 Bottom Of Top Packer
Packer	5.00			3372.00	
Stubb	1.00			3373.00	
Perforations	11.00			3384.00	
Recorder	0.00	8319	Inside	3384.00	
Perforations	5.00			3389.00	
Recorder	0.00	13308	Outside	3389.00	
Blank Off Sub	1.00			3390.00	
Blank Spacing	3.00			3393.00	21.00 Tool Interval
Packer	0.00			3393.00	
Stubb	1.00			3394.00	
Perforations	23.00			3417.00	
Change Over Sub	1.00			3418.00	
Recorder	0.00	8369	Below	3418.00	
Blank Spacing	32.00			3450.00	
Change Over Sub	1.00			3451.00	
Perforations	1.00			3452.00	
Bullnose	3.00			3455.00	62.00 Bottom Packers & Anchor

Total Tool Length: 103.00

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WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

Kriley #1

P O Box 86
Plainville Ks 67663-0086

3 9 18 Rooks KS

Job Ticket: 32751

DST#: 3

ATTN: Charles Ramsay

Test Start: 2008.08.26 @ 19:18:06

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil spotted mud	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

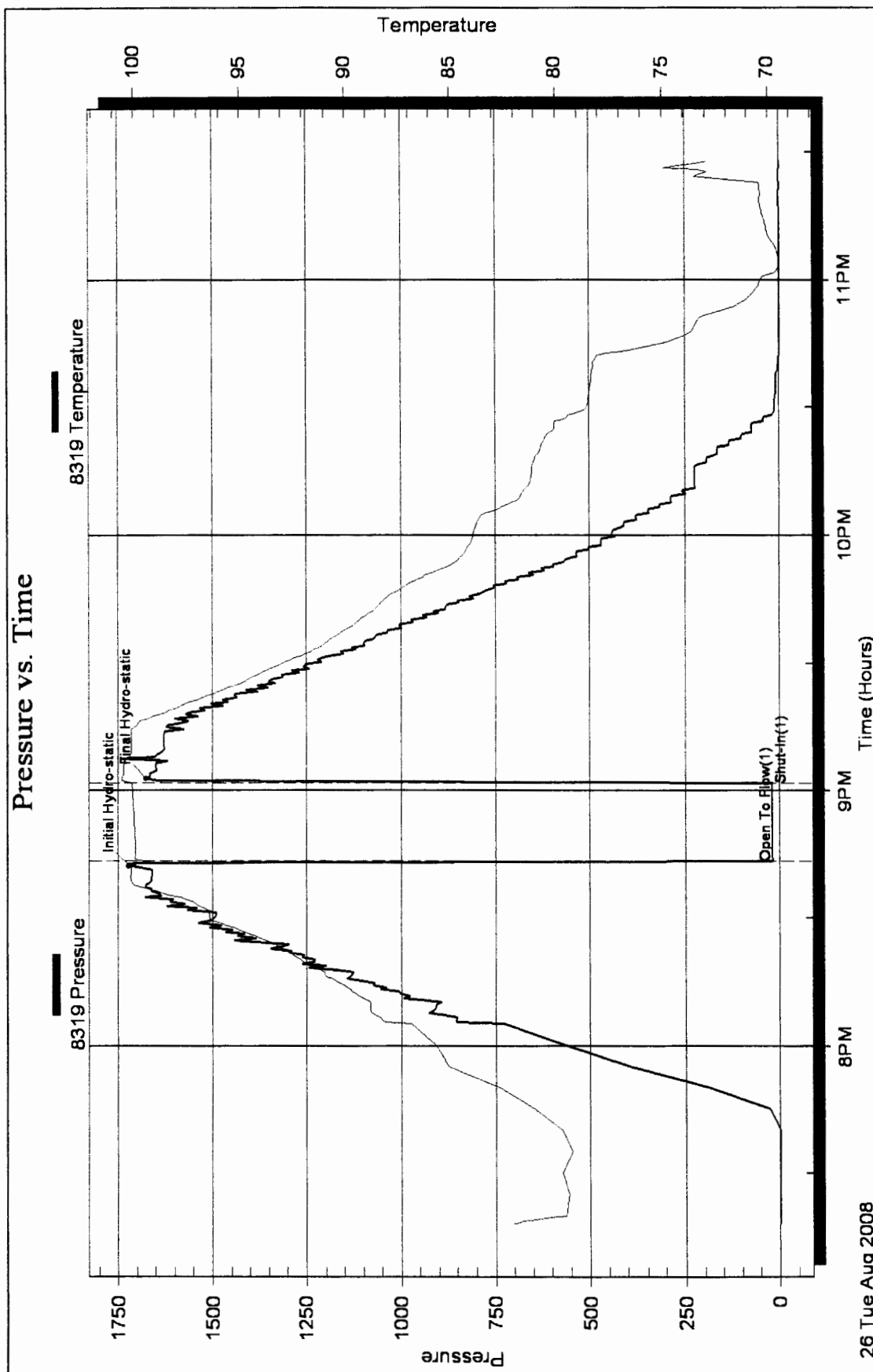
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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Ref. No: 32751

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WICHITA, KS

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