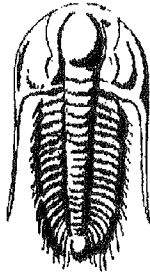


IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

9915 W 21st Street N
Wichita KS 67205

ATTN: Randy Killian

15 11S 16W Ellis KS

Dinges # 15-1

Start Date: 2008.07.15 @ 02:55:38

End Date: 2008.07.15 @ 10:38:23

Job Ticket #: 32430 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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KCC

IA Operating

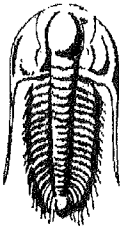
Dinges # 15-1

15 11S 16W Ellis KS

DST # 1

Toronto - LKC "D"

2008.07.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

IA Operating
9915 W 21st Street N
Wichita KS 67205
ATTN: Randy Killian

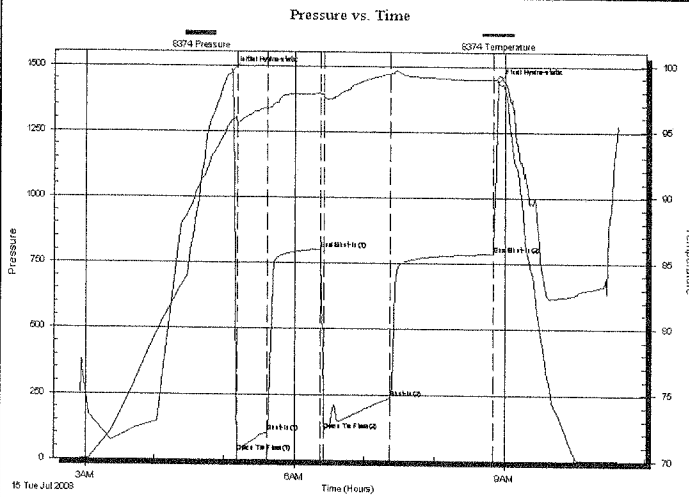
Dinges # 15-1
15 11S 16W Ellis KS
Job Ticket: 32430 **DST#: 1**
Test Start: 2008.07.15 @ 02:55:38

GENERAL INFORMATION:

Formation: **Toronto - LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:10:53
Time Test Ended: 10:38:23
Interval: **3063.00 ft (KB) To 3180.00 ft (KB) (TVD)**
Total Depth: 3180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44
Reference Elevations: 1900.00 ft (KB)
1895.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8374 Inside
Press@RunDepth: 239.00 psig @ 3068.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.07.15 End Date: 2008.07.15 Last Calib.: 2008.07.15
Start Time: 02:55:39 End Time: 10:38:23 Time On Btm: 2008.07.15 @ 05:07:08
Time Off Btm: 2008.07.15 @ 08:54:38

TEST COMMENT: IFP BOB in 14 min
ISI No blow back
FFP Weak surface blow built to 7" died to 5"
FSI No blow back



PRESSURE SUMMARY

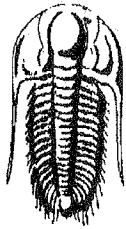
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1478.67	95.84	Initial Hydro-static
4	29.87	95.38	Open To Flow (1)
30	106.39	96.69	Shut-In(1)
75	803.91	97.82	End Shut-In(1)
79	114.16	97.48	Open To Flow (2)
136	239.00	99.36	Shut-In(2)
224	787.89	98.93	End Shut-In(2)
228	1441.01	99.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCMW 10%O 70%W 20%M	2.27
120.00	OCWM 10%O 10%W 80%M	1.70
170.00	OCM 10%O 90%M	2.41
0.00	130' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating
9915 W 21st Street N
Wichita KS 67205
ATTN: Randy Killian

Dinges # 15-1
15 11S 16W Ellis KS
Job Ticket: 32430 **DST#: 1**
Test Start: 2008.07.15 @ 02:55:38

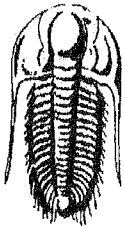
Tool Information

Drill Pipe:	Length: 3022.00 ft	Diameter: 3.82 inches	Volume: 42.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 42.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3063.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	117.00 ft			
Tool Length:	138.00 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			3043.00	
Shut In Tool	5.00			3048.00	
Hydraulic tool	5.00			3053.00	
Packer	5.00			3058.00	21.00 Bottom Of Top Packer
Packer	5.00			3063.00	
Stubb	1.00			3064.00	
Perforations	3.00			3067.00	
Change Over Sub	1.00			3068.00	
Recorder	0.00	8367	Inside	3068.00	
Recorder	0.00	8374	Inside	3068.00	
Blank Spacing	93.00			3161.00	
Change Over Sub	1.00			3162.00	
Perforations	15.00			3177.00	
Bullnose	3.00			3180.00	117.00 Bottom Packers & Anchor

Total Tool Length: 138.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating
9915 W 21st Street N
Wichita KS 67205
ATTN: Randy Killian

Dinges # 15-1
15 11S 16W Ellis KS
Job Ticket: 32430 **DST#: 1**
Test Start: 2008.07.15 @ 02:55:38

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCMV 10%O 70%W 20%M	2.274
120.00	OCVM 10%O 10%W 80%M	1.701
170.00	OCM 10%O 90%M	2.410
0.00	130' GIP	0.000

Total Length: 470.00 ft Total Volume: 6.385 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8374

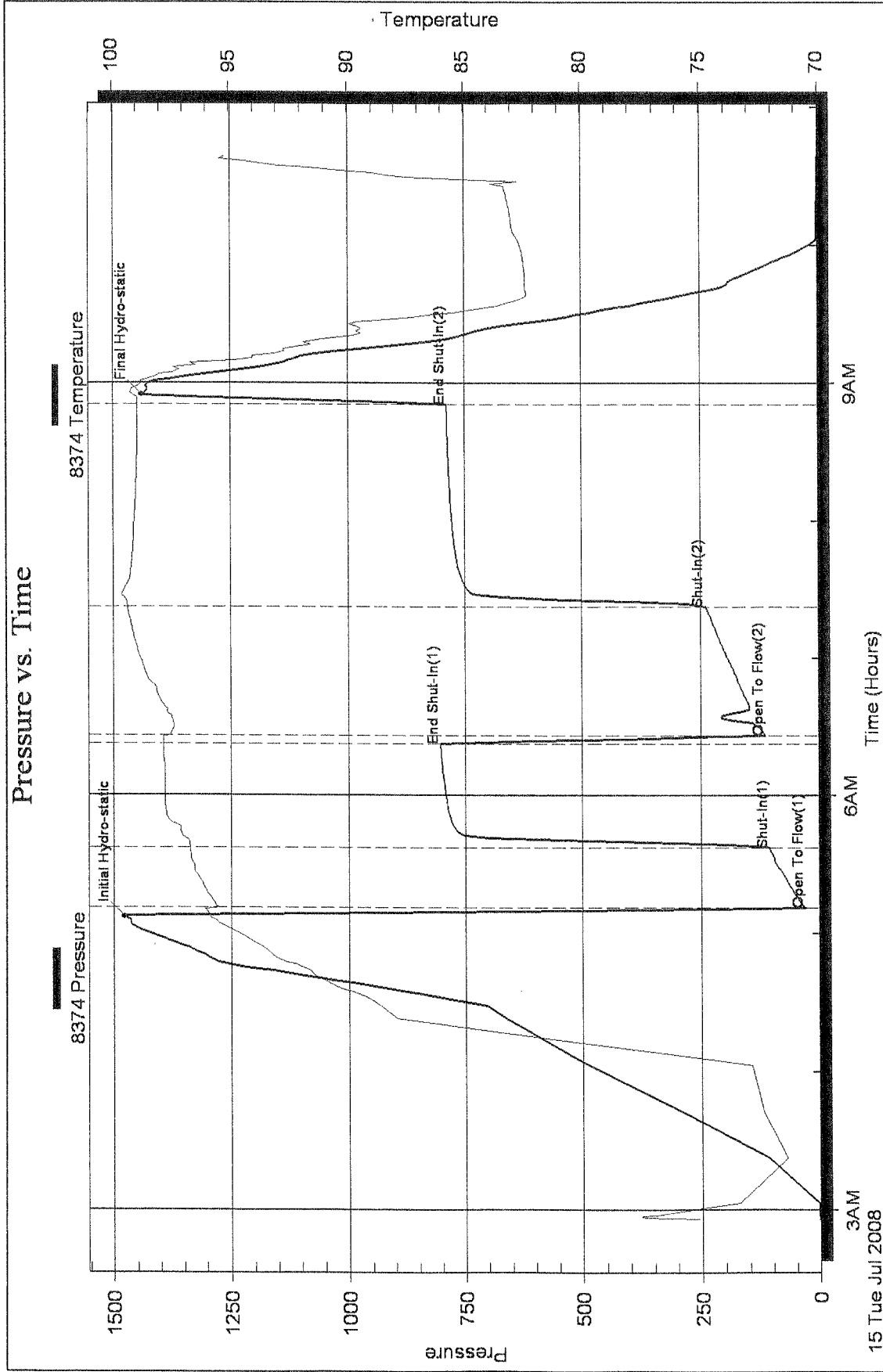
Inside

IA Operating

15 11S 16W Ellis KS

DST Test Number: 1

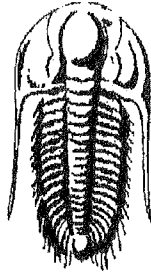
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 32430

Printed: 2008.07.22 @ 13:24:53 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

9915 W 21st Street N
Wichita KS 67205

ATTN: Randy Killian

15 11S 16W Ellis KS

Dinges # 15-1

Start Date: 2008.07.15 @ 11:45:55

End Date: 2008.07.15 @ 19:13:25

Job Ticket #: 32431 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating

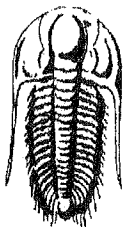
Dinges # 15-1

15 11S 16W Ellis KS

DST # 2

LKC "C-D"

2008.07.15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

IA Operating
 9915 W 21st Street N
 Wichita KS 67205
 ATTN: Randy Killian

Dinges # 15-1
15 11S 16W Ellis KS
 Job Ticket: 32431 **DST#: 2**
 Test Start: 2008.07.15 @ 11:45:55

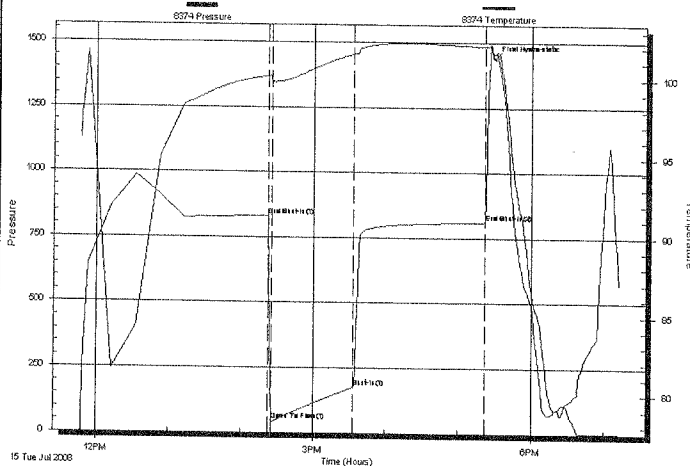
GENERAL INFORMATION:

Formation: **LKC "C-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:25:10
 Time Test Ended: 19:13:25
 Interval: **3135.00 ft (KB) To 3180.00 ft (KB) (TVD)**
 Total Depth: 3180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Tyson Flax
 Unit No: 44
 Reference Elevations: 1900.00 ft (KB)
 1895.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8374 **Inside**
 Press@RunDepth: 176.12 psig @ 3140.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.15 End Date: 2008.07.15 Last Calib.: 2008.07.15
 Start Time: 11:45:56 End Time: 19:13:25 Time On Btm:
 Time Off Btm: 2008.07.15 @ 17:29:25

TEST COMMENT: IFP Weak blow built to 4.5 "
 ISI No blow back
 FFP Weak blow built to BOB in 62 min
 FSI Weak surface blow back built to 1 " died in 35 min

Pressure vs. Time



PRESSURE SUMMARY

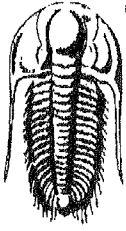
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	830.20	100.19	End Shut-In(1)
4	46.33	99.70	Open To Flow(1)
72	176.12	101.58	Shut-In(1)
181	810.71	102.10	End Shut-In(2)
188	1437.40	101.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water	2.27
60.00	MWw/scum Oil	0.85
55.00	OCWM 10%O 20%W 70%M	0.78
50.00	CO	0.71
0.00	975' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating
9915 W 21st Street N
Wichita KS 67205
ATTN: Randy Killian

Dinges # 15-1
15 11S 16W Ellis KS
Job Ticket: 32431 **DST#: 2**
Test Start: 2008.07.15 @ 11:45:55

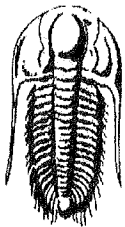
Tool Information

Drill Pipe:	Length: 3114.00 ft	Diameter: 3.82 inches	Volume: 44.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 60000.00 lb
			<u>Total Volume: 44.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3135.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 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			3115.00	
Shut In Tool	5.00			3120.00	
Hydraulic tool	5.00			3125.00	
Packer	5.00			3130.00	21.00 Bottom Of Top Packer
Packer	5.00			3135.00	
Stubb	1.00			3136.00	
Perforations	3.00			3139.00	
Change Over Sub	1.00			3140.00	
Recorder	0.00	8367	Inside	3140.00	
Recorder	0.00	8374	Inside	3140.00	
Blank Spacing	31.00			3171.00	
Change Over Sub	1.00			3172.00	
Perforations	5.00			3177.00	
Bullnose	3.00			3180.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating

Dinges # 15-1

9915 W 21st Street N
Wichita KS 67205

15 11S 16W Ellis KS

Job Ticket: 32431

DST#: 2

ATTN: Randy Killian

Test Start: 2008.07.15 @ 11:45:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Water	2.274
60.00	MWw/scum Oil	0.851
55.00	OCWM 10%O 20%W 70%M	0.780
50.00	CO	0.709
0.00	975' GIP	0.000

Total Length: 345.00 ft

Total Volume: 4.614 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

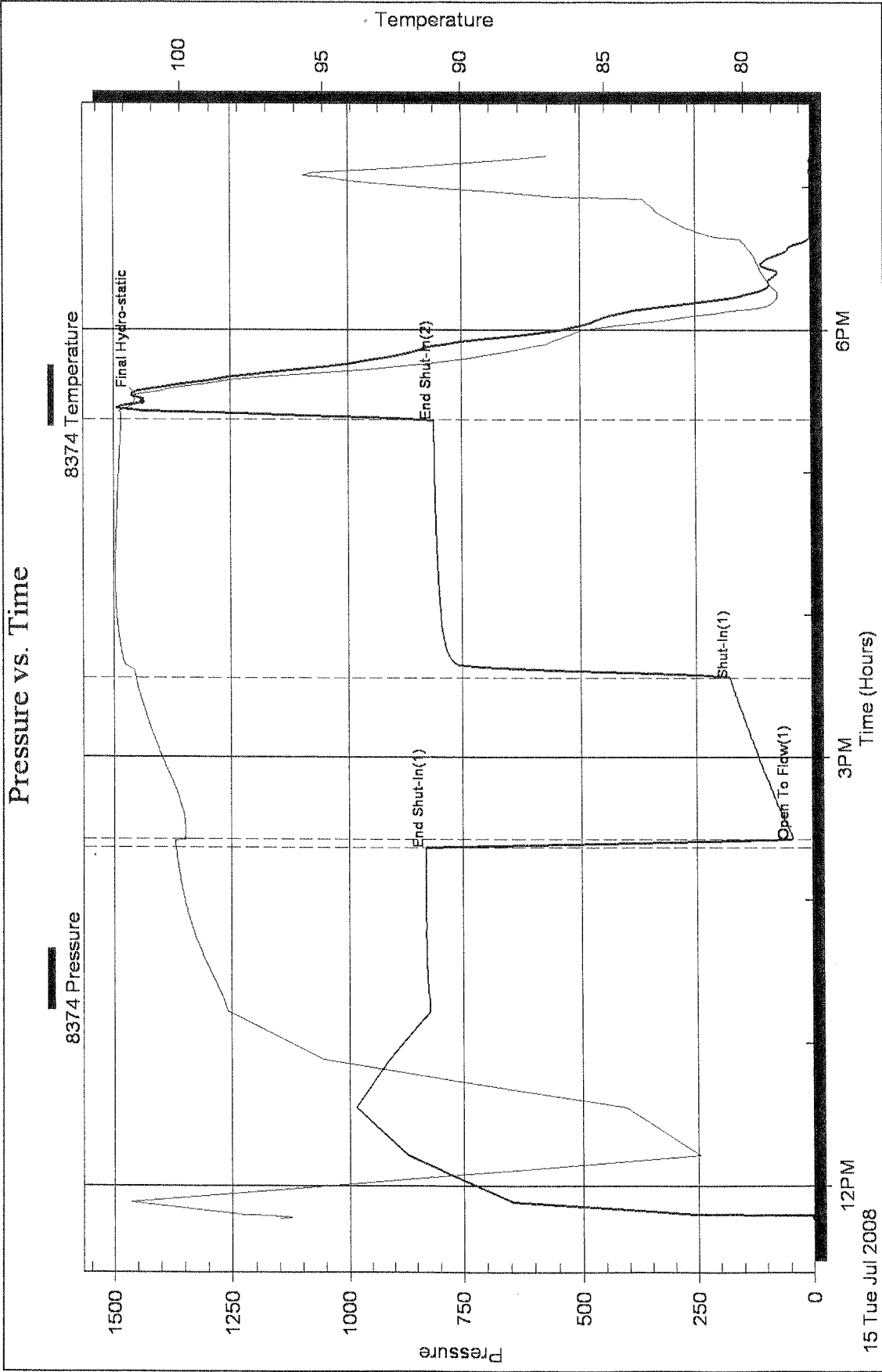
Serial #:

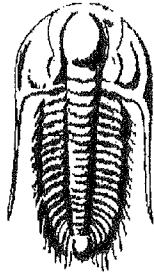
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

9915 W 21st Street N
Wichita KS 67205

ATTN: Randy Killian

15 11S 16W Ellis KS

Dinges # 15-1

Start Date: 2008.07.16 @ 10:13:11

End Date: 2008.07.16 @ 16:53:11

Job Ticket #: 32432 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating

Dinges # 15-1

15 11S 16W Ellis KS

DST # 3

LKC "J-K"

2008.07.16



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

IA Operating
 9915 W 21st Street N
 Wichita KS 67205
 ATTN: Randy Killian

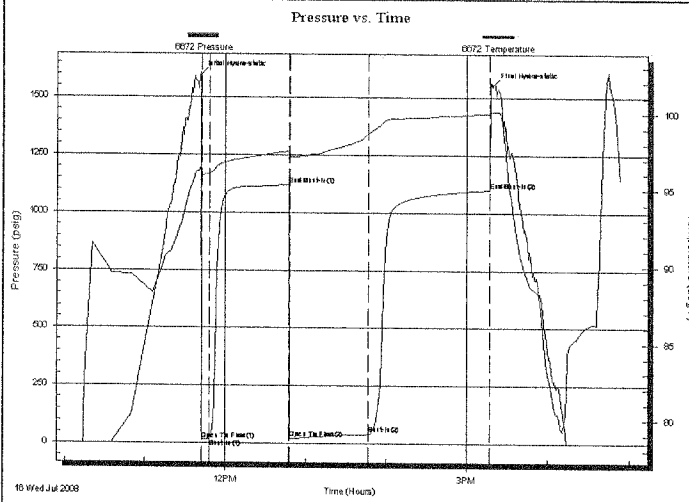
Dinges # 15-1
15 11S 16W Ellis KS
 Job Ticket: 32432 **DST#: 3**
 Test Start: 2008.07.16 @ 10:13:11

GENERAL INFORMATION:

Formation: **LKC "J-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:41:56
 Time Test Ended: 16:53:11
 Test Type: Conventional Bottom Hole
 Tester: Tyson Flax
 Unit No: 44
 Interval: **3281.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Total Depth: 3340.00 ft (KB) (TVD)
 Reference Elevations: 1900.00 ft (KB)
 1895.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 6672 Inside
 Press@RunDepth: 40.17 psig @ 3286.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.16 End Date: 2008.07.16 Last Calib.: 2008.07.16
 Start Time: 10:13:12 End Time: 16:53:11 Time On Btm: 2008.07.16 @ 11:41:26
 Time Off Btm: 2008.07.16 @ 15:19:11

TEST COMMENT: IFP Weak surface blow built to 1/2 "
 ISI No blow back
 FFP Weak surface blow died in 11 min
 FSI No blow back



PRESSURE SUMMARY

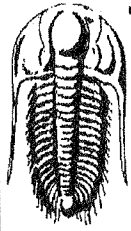
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.39	96.43	Initial Hydro-static
1	13.96	95.74	Open To Flow (1)
6	17.92	96.06	Shut-In(1)
66	1119.36	97.54	End Shut-In(1)
66	20.38	96.78	Open To Flow (2)
125	40.17	98.71	Shut-In(2)
216	1098.46	100.00	End Shut-In(2)
218	1551.04	100.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 20%O 80%M	0.60

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating

Dinges # 15-1

9915 W 21st Street N
Wichita KS 67205

15 11S 16W Ellis KS

Job Ticket: 32432

DST#: 3

ATTN: Randy Killian

Test Start: 2008.07.16 @ 10:13:11

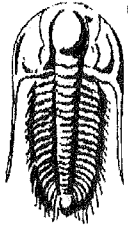
Tool Information

Drill Pipe:	Length: 3241.00 ft	Diameter: 3.82 inches	Volume: 45.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 46.09 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3281.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	80.00 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			3261.00	
Shut In Tool	5.00			3266.00	
Hydraulic tool	5.00			3271.00	
Packer	5.00			3276.00	21.00 Bottom Of Top Packer
Packer	5.00			3281.00	
Stubb	1.00			3282.00	
Perforations	3.00			3285.00	
Change Over Sub	1.00			3286.00	
Recorder	0.00	8367	Inside	3286.00	
Recorder	0.00	6672	Inside	3286.00	
Blank Spacing	31.00			3317.00	
Change Over Sub	1.00			3318.00	
Perforations	19.00			3337.00	
Bullnose	3.00			3340.00	59.00 Bottom Packers & Anchor

Total Tool Length: 80.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating
9915 W 21st Street N
Wichita KS 67205
ATTN: Randy Killian

Dinges # 15-1
15 11S 16W Ellis KS
Job Ticket: 32432 **DST#: 3**
Test Start: 2008.07.16 @ 10:13:11

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: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5800.00 ppm			
Filter Cake: inches			

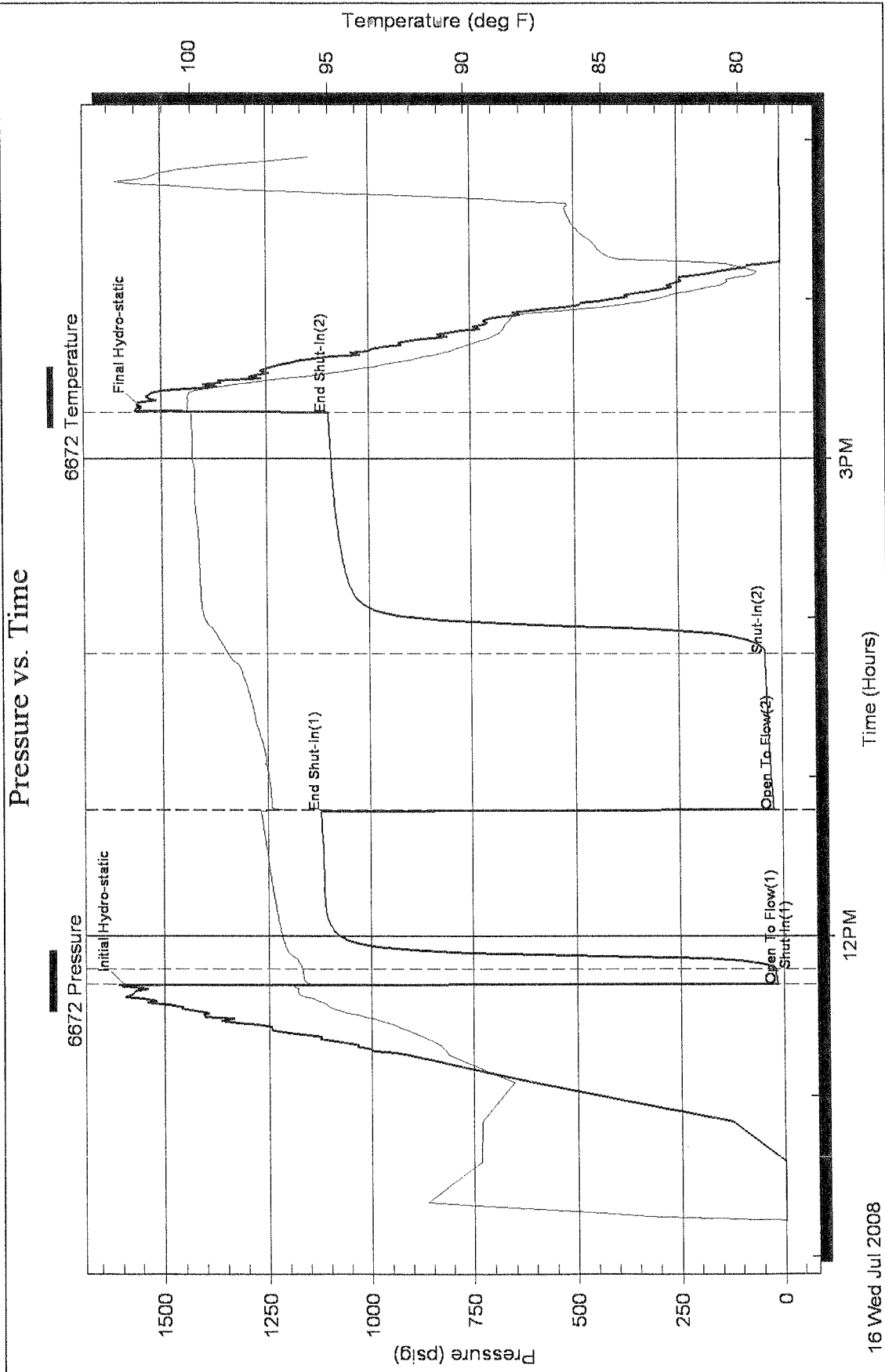
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCM 20%O 80%M	0.601

Total Length: 62.00 ft Total Volume: 0.601 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



16 Wed Jul 2008

12PM

3PM