

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

Po Box 352
Russell, KS 67665

ATTN: John Farmer

2 16s 27w Lane KS

Carter #1

Start Date: 2004.01.13 @ 09:21:39

End Date: 2004.01.13 @ 17:04:54

Job Ticket #: 17307 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

John O Farmer

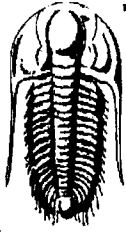
Carter #1

2 16s 27w Lane KS

DST # 1

Lansing

2004.01.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer
 Po Box 352
 Russell, KS 67665
 ATTN: John Farmer

Carter #1
2 16s 27w Lane KS
 Job Ticket: 17307 **DST#: 1**
 Test Start: 2004.01.13 @ 09:21:39

GENERAL INFORMATION:

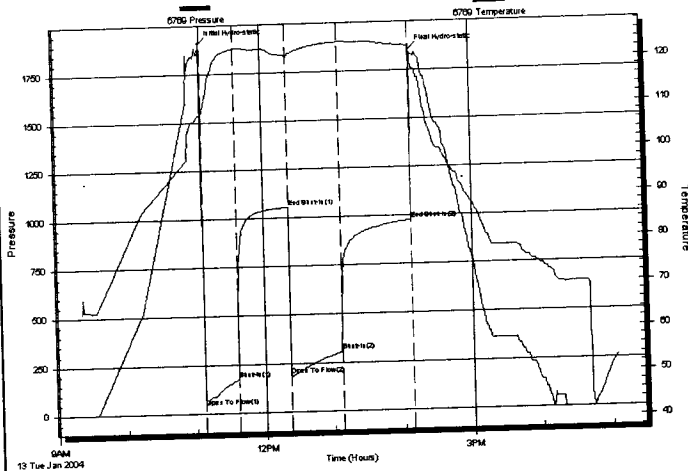
Formation: **Lansing**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 11:06:39
 Time Test Ended: 17:04:54
 Interval: **3843.00 ft (KB) To 3865.00 ft (KB) (TVD)**
 Total Depth: **3865.00 ft (KB) (TVD)**
 Hole Diameter: **77.80 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**
 Tester: **Jason Brower**
 Unit No: **20**
 Reference Elevations: **2497.00 ft (KB)**
 2492.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6769 **Inside**
 Press@RunDepth: **305.78 psig @ 3847.00 ft (KB)**
 Start Date: **2004.01.13** End Date: **2004.01.13**
 Start Time: **09:21:41** End Time: **17:04:54**
 Capacity: **7000.00 psig**
 Last Calib.: **2003.10.03**
 Time On Btm: **2004.01.13 @ 11:06:24**
 Time Off Btm: **2004.01.13 @ 14:08:39**

TEST COMMENT: If Strong blow Bob 2 Min
 ISI blow built to bottom of bucket in 20 minutes
 FF-Strong blow Bob as soon as open
 FSI bottom of bucket in 20 minutes

Pressure vs. Time



PRESSURE SUMMARY

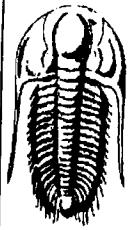
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.77	108.16	Initial Hydro-static
1	37.67	107.84	Open To Flow (1)
30	176.61	122.95	Shut-In (1)
76	1054.02	121.27	End Shut-In (1)
77	187.40	120.77	Open To Flow (2)
121	305.78	124.06	Shut-In (2)
182	976.19	123.00	End Shut-In (2)
183	1855.05	123.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	muddy water 80% water 20% Mud	0.58
120.00	gassy mco 30% g 50% o 20%M	1.68
550.00	clean oil 10% g 90% o	7.72
0.00	2800' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17307

DST#: 1

ATTN: John Farmer

Test Start: 2004.01.13 @ 09:21:39

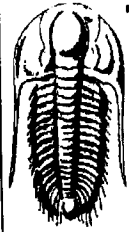
Tool Information

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.62 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3843.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3829.00	
Hydraulic tool	5.00			3834.00	
Packer	5.00			3839.00	19.00
Packer	4.00			3843.00	Bottom Of Top Packer
Stubb	1.00			3844.00	
Perforations	3.00			3847.00	
Recorder	0.00	6769	Inside	3847.00	
Perforations	15.00			3862.00	
Recorder	0.00	11019		3862.00	
Bullnose	3.00			3865.00	
Total Tool Length:	41.00				22.00
					Bottom Packers & Anchor



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17307

DST#: 1

ATTN: John Farmer

Test Start: 2004.01.13 @ 09:21:39

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.76 in³
Resistivity: ohm.m
Salinity: ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 41 deg API
Water Salinity: 105000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
118.00	muddy water 80%w ater 20% Mud	0.580
120.00	gassy mco 30% g 50% o 20%M	1.683
550.00	clean oil 10% g 90% o	7.715
0.00	2800' GIP	0.000

Total Length: 788.00 ft Total Volume: 9.978 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Rw .08@59

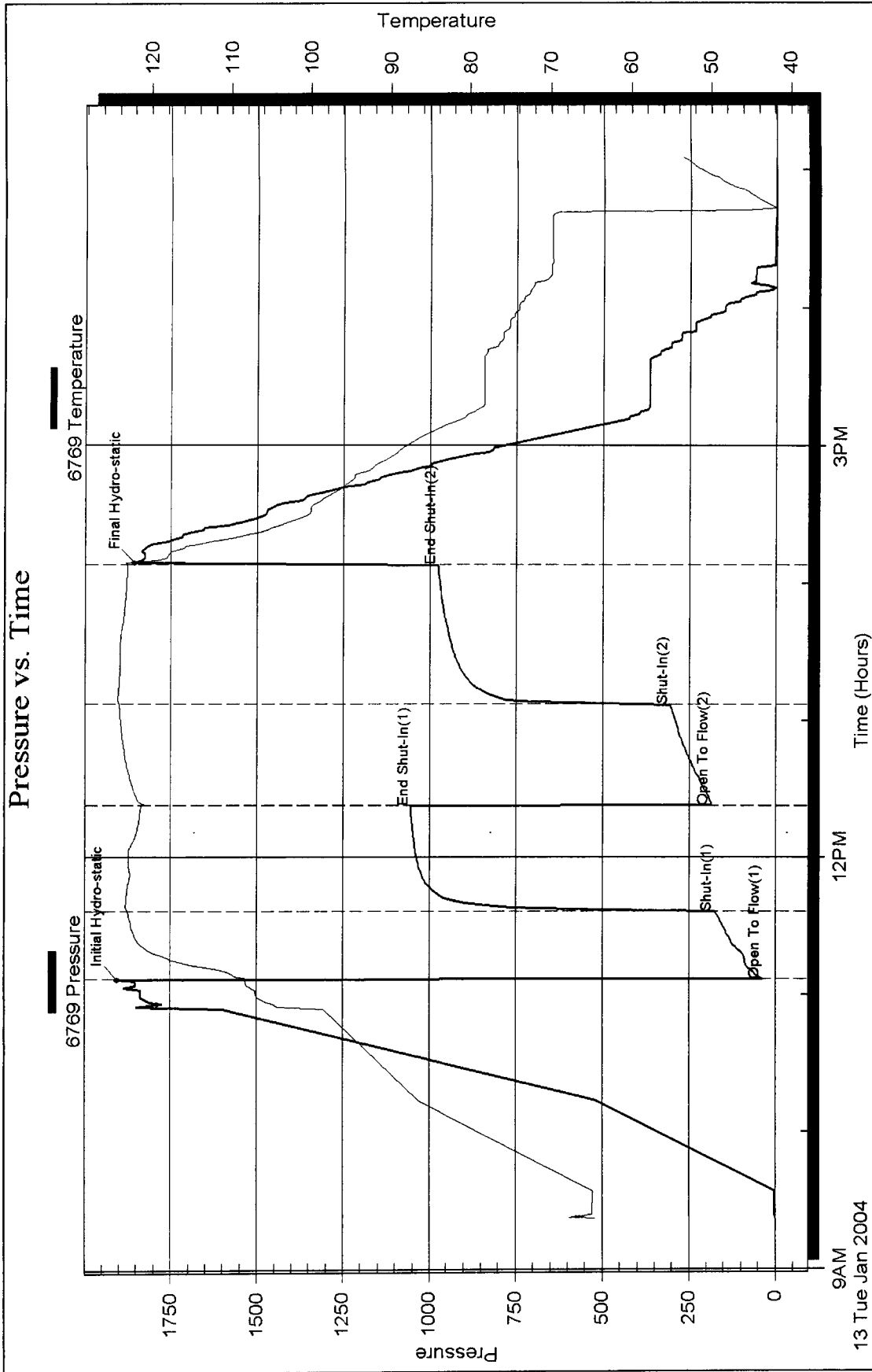
Serial #: 6769

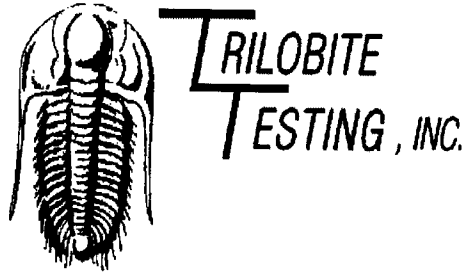
Inside

John O Farmer

2 16s 27w Lane KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

Po Box 352
Russell, KS 67665

ATTN: John Farmer

2 16s 27w Lane KS

Carter #1

Start Date: 2004.01.14 @ 07:52:38

End Date: 2004.01.14 @ 13:20:51

Job Ticket #: 17308 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer

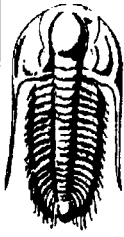
Carter #1

2 16s 27w Lane KS

DST # 2

LKC 120140160

2004.01.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17308

DST#: 2

ATTN: John Farmer

Test Start: 2004.01.14 @ 07:52:38

GENERAL INFORMATION:

Formation: **LKC 120/140/160**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:38:21

Time Test Ended: 13:20:51

Test Type: Conventional Bottom Hole

Tester: Jason Brower

Unit No: 20

Interval: **3924.00 ft (KB) To 3970.00 ft (KB) (TVD)**

Total Depth: 3970.00 ft (KB) (TVD)

Hole Diameter: 77.80 inches Hole Condition: Good

Reference Elevations: 2497.00 ft (KB)

2492.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 39.18 psig @ 3962.00 ft (KB)

Start Date: 2004.01.14

End Date:

2004.01.14

Capacity: 7000.00 psig

Last Calib.: 2003.10.03

Start Time: 07:52:38

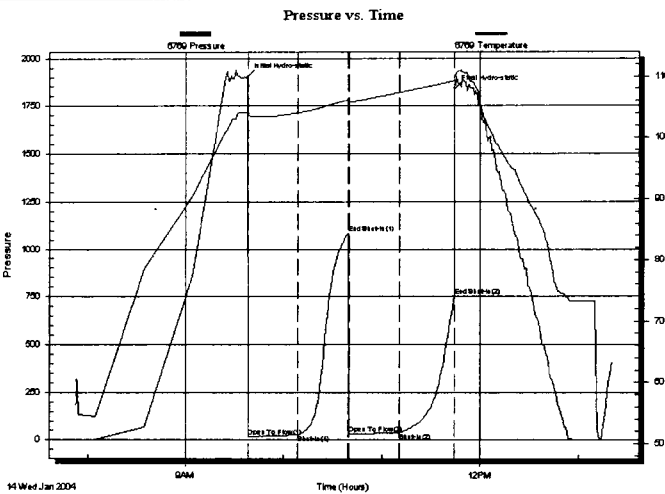
End Time:

13:20:51

Time On Btm: 2004.01.14 @ 09:38:06

Time Off Btm: 2004.01.14 @ 11:44:21

TEST COMMENT: IF. weak blow to .75"
FF. weak blow building to .25"



PRESSURE SUMMARY

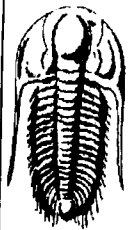
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.03	104.06	Initial Hydro-static
1	15.66	103.61	Open To Flow (1)
31	26.86	104.11	Shut-In (1)
62	1084.15	106.15	End Shut-In (1)
62	30.65	105.92	Open To Flow (2)
93	39.18	107.37	Shut-In (2)
126	753.23	109.30	End Shut-In (2)
127	1839.45	110.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	socm 5% oil 95% mud	0.10
0.00	40' gip	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17308

DST#: 2

ATTN: John Farmer

Test Start: 2004.01.14 @ 07:52:38

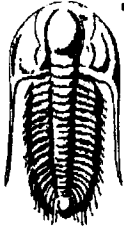
Tool Information

Drill Pipe:	Length: 3803.00 ft	Diameter: 3.80 inches	Volume: 53.35 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.93 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3924.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3910.00	
Hydraulic tool	5.00			3915.00	
Packer	5.00			3920.00	19.00
Packer	4.00			3924.00	Bottom Of Top Packer
Stubb	1.00			3925.00	
Perforations	5.00			3930.00	
Change Over Sub	0.50			3930.50	
Blank Spacing	31.00			3961.50	
Change Over Sub	0.50			3962.00	
Recorder	0.00	6769	Inside	3962.00	
Perforations	5.00			3967.00	
Recorder	0.00	11019		3967.00	
Bullnose	3.00			3970.00	46.00
Total Tool Length:	65.00				Bottom Packers & Anchor



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17308

DST#: 2

ATTN: John Farmer

Test Start: 2004.01.14 @ 07:52:38

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	socm 5% oil 95% mud	0.098
0.00	40' gip	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6769

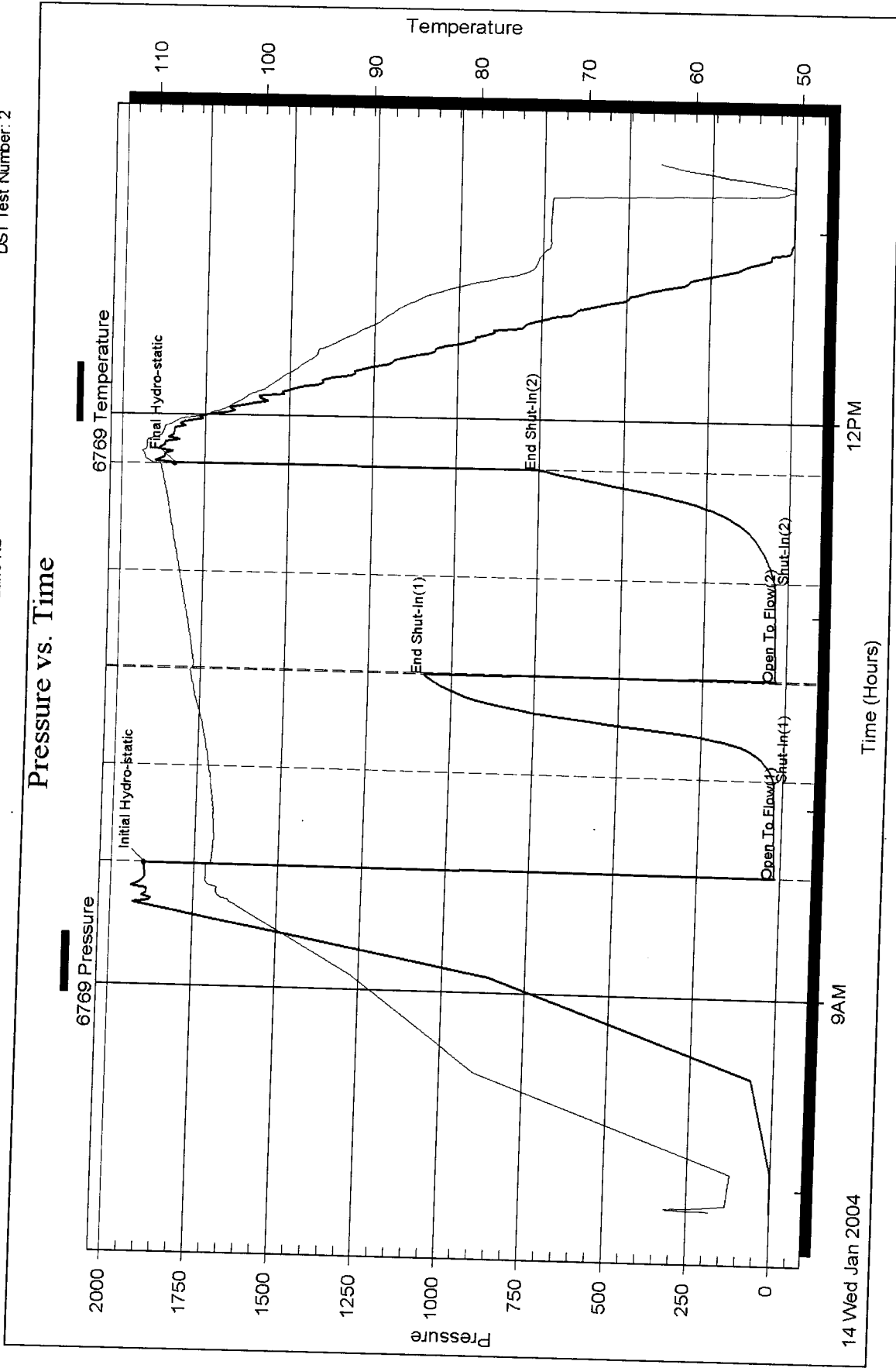
Inside

John O Farmer

2 16s 27w Lane KS

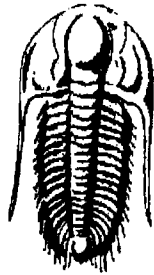
DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 17308



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

Po Box 352
Russell, KS 67665

ATTN: John Farmer

2 16s 27w Lane KS

Carter #1

Start Date: 2004.01.15 @ 00:42:55

End Date: 2004.01.15 @ 06:30:10

Job Ticket #: 17312 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

John O Farmer

Carter #1

2 16s 27w Lane KS

DST # 3

l/c 200' zone

2004.01.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

ATTN: John Farmer

Job Ticket: 17312

DST#: 3

Test Start: 2004.01.15 @ 00:42:55

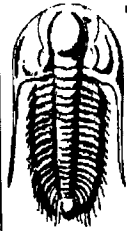
Tool Information

Drill Pipe:	Length: 3923.00 ft	Diameter: 3.80 inches	Volume: 55.03 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 55.47 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4012.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3998.00	
Hydraulic tool	5.00			4003.00	
Packer	5.00			4008.00	19.00
Packer	4.00			4012.00	Bottom Of Top Packer
Stubb	1.00			4013.00	
Perforations	5.00			4018.00	
Recorder	0.00	6769	Inside	4018.00	
Perforations	23.00			4041.00	
Recorder	0.00	11019		4041.00	
Bullnose	3.00			4044.00	32.00
Total Tool Length:	51.00				Bottom Packers & Anchor



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17312

DST#: 3

ATTN: John Farmer

Test Start: 2004.01.15 @ 00:42:55

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 80000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	muddy water 60% water 40% mud	1.144

Total Length: 140.00 ft Total Volume: 1.144 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .17 @41

Serial #: 6769

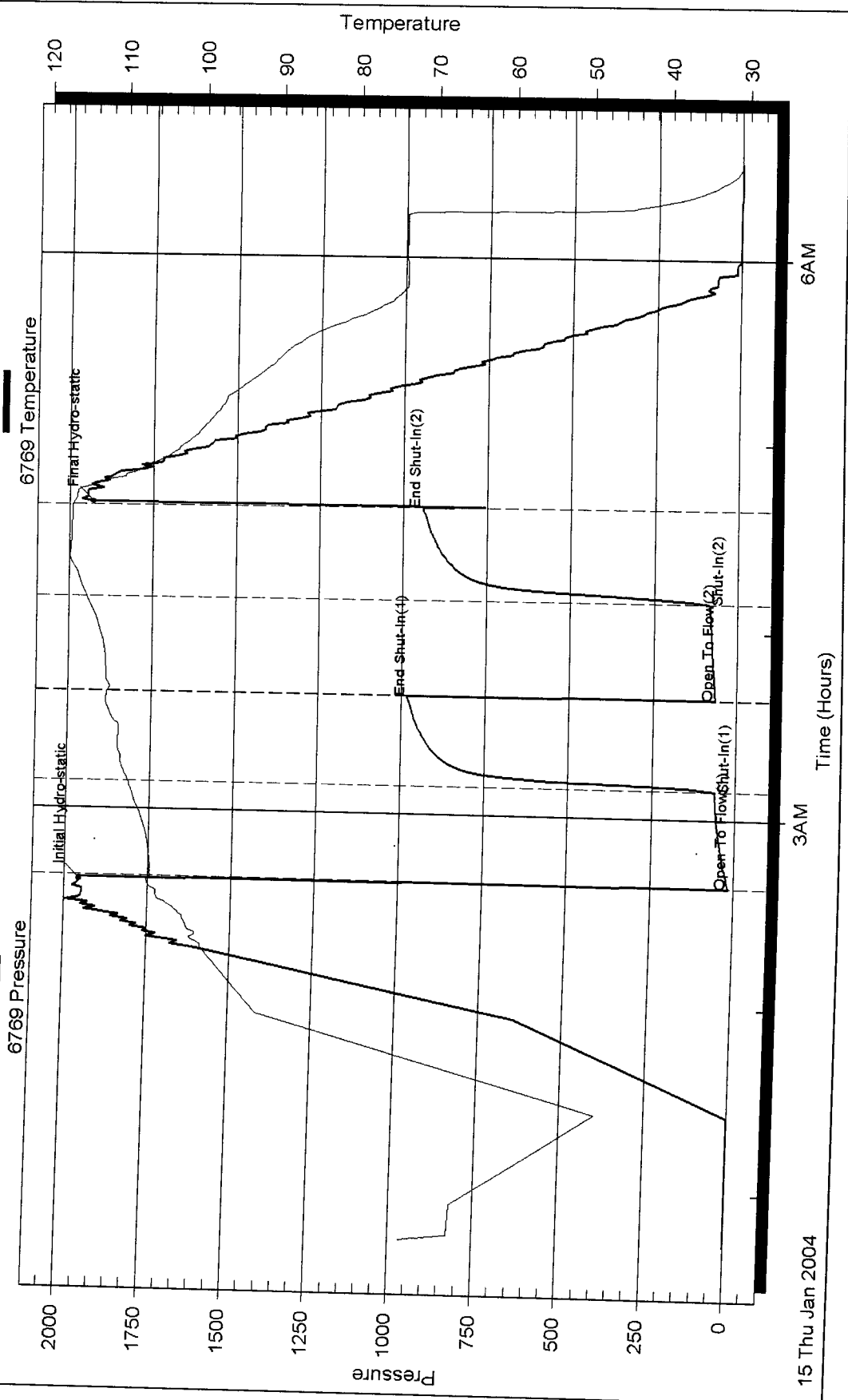
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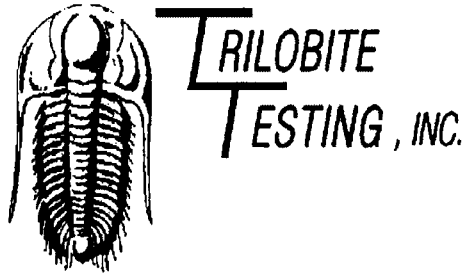
John O Farmer

2 16s 27w Lane KS

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

Po Box 352
Russell, KS 67665

ATTN: John Farmer

2 16s 27w Lane KS

Carter #1

Start Date: 2004.01.15 @ 14:30:25

End Date: 2004.01.15 @ 20:10:55

Job Ticket #: 17313 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer

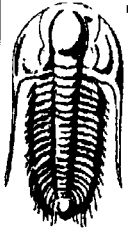
Carter #1

2 16s 27w Lane KS

DST # 4

Lkc 220' L zone

2004.01.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17313

DST#: 4

ATTN: John Farmer

Test Start: 2004.01.15 @ 14:30:25

GENERAL INFORMATION:

Formation: **Lkc 220' L zone**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 16:16:25
 Time Test Ended: 20:10:55

Test Type: **Conventional Bottom Hole**
 Tester: **Jason Brower**
 Unit No: **20**

Interval: **4046.00 ft (KB) To 4074.00 ft (KB) (TVD)**
 Total Depth: **4074.00 ft (KB) (TVD)**
 Hole Diameter: **77.80 inches** Hole Condition: **Good**

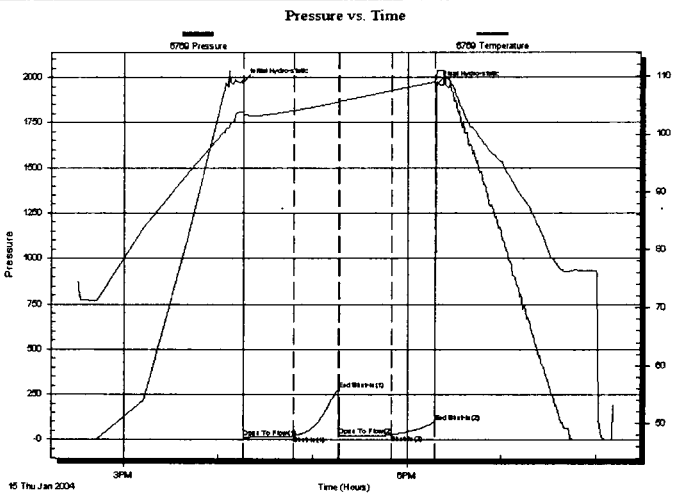
Reference Elevations: **2497.00 ft (KB)**
2492.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6769 Inside

Press@RunDepth: **29.81 psig @ 4051.00 ft (KB)**
 Start Date: **2004.01.15** End Date: **2004.01.15**
 Start Time: **14:30:27** End Time: **20:10:55**

Capacity: **7000.00 psig**
 Last Calib.: **1899.12.30**
 Time On Btm: **2004.01.15 @ 16:15:55**
 Time Off Btm: **2004.01.15 @ 18:18:25**

TEST COMMENT: **weak blow .25" died in 15 min**
FF no blow



PRESSURE SUMMARY

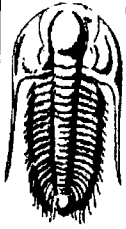
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1976.45	103.86	Initial Hydro-static
1	14.52	103.43	Open To Flow (1)
32	21.25	104.12	Shut-In(1)
61	279.56	105.66	End Shut-In(1)
61	22.07	105.63	Open To Flow (2)
94	29.81	107.58	Shut-In(2)
122	98.75	109.03	End Shut-In(2)
123	1957.79	109.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17313

DST#: 4

ATTN: John Farmer

Test Start: 2004.01.15 @ 14:30:25

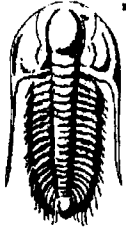
Tool Information

Drill Pipe:	Length: 3926.00 ft	Diameter: 3.80 inches	Volume: 55.07 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.65 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4046.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4032.00	
Hydraulic tool	5.00			4037.00	
Packer	5.00			4042.00	19.00 Bottom Of Top Packer
Packer	4.00			4046.00	
Stubb	1.00			4047.00	
Perforations	4.00			4051.00	
Recorder	0.00	6769	Inside	4051.00	
Perforations	20.00			4071.00	
Recorder	0.00	11019		4071.00	
Bullnose	3.00			4074.00	28.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 17313

DST#: 4

ATTN: John Farmer

Test Start: 2004.01.15 @ 14:30:25

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

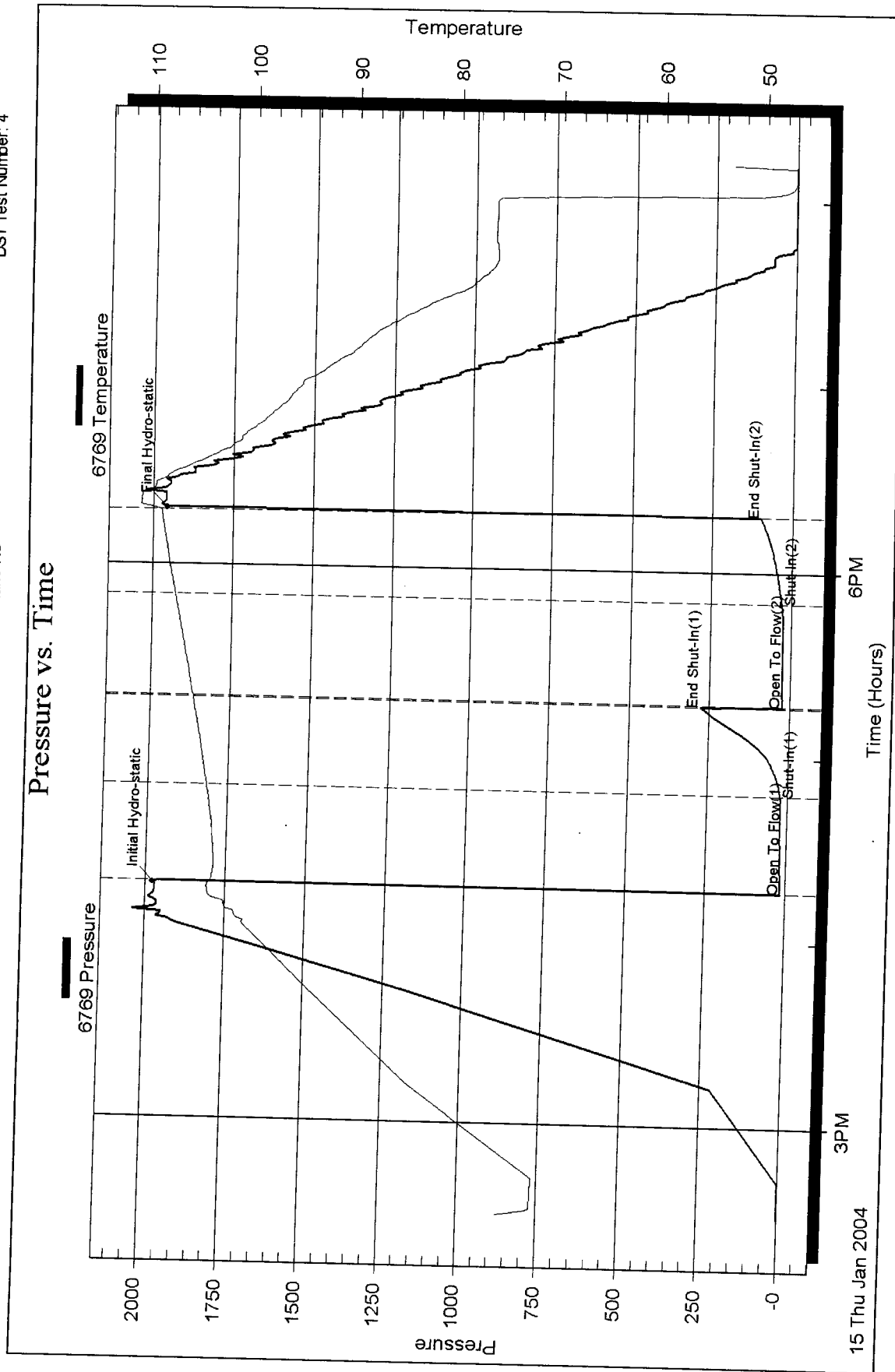
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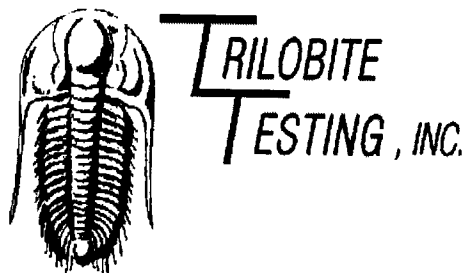
Inside

John O Farmer

2 16s 27w Lane KS

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

Po Box 352
Russell, KS 67665

ATTN: John Farmer

2 16s 27w Lane KS

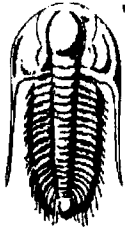
Carter #1

Start Date: 2004.01.17 @ 06:13:30

End Date: 2004.01.17 @ 14:41:30

Job Ticket #: 18258 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer
Pb Box 352
Russell, KS 67665
ATTN: John Farmer

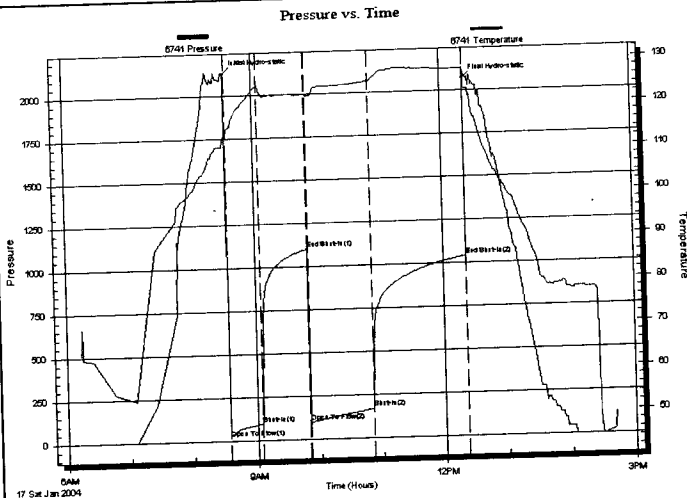
Carter #1
2 16s 27w Lane KS
Job Ticket: 18258 DST#: 5
Test Start: 2004.01.17 @ 06:13:30

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 08:34:00
Time Test Ended: 14:41:30
Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18
Interval: **4339.00 ft (KB) To 4377.00 ft (KB) (TVD)**
Total Depth: 4377.00 ft (KB) (TVD)
Hole Diameter: 77.80 inches Hole Condition: Fair
Reference Elevations: 2497.00 ft (KB)
2492.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 **Inside**
Press@RunDepth: 170.30 psig @ 4345.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.01.17 End Date: 2004.01.17 Last Calib.: 2004.01.17
Start Time: 06:13:32 End Time: 14:41:30 Time On Btm: 2004.01.17 @ 08:33:30
Time Off Btm: 2004.01.17 @ 12:21:30

TEST COMMENT: IF-Good to strong B.O.B. 18 min. ISI-Weak surface blow back.
FF-Good to strong B.O.B. 21 min. FSI-Good blow back 1" in



PRESSURE SUMMARY

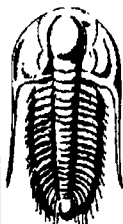
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.84	113.58	Initial Hydro-static
1	18.79	113.02	Open To Flow (1)
32	97.64	124.97	Shut-In(1)
77	1102.25	122.75	End Shut-In(1)
77	101.04	122.49	Open To Flow (2)
137	170.30	125.33	Shut-In(2)
228	1042.79	127.67	End Shut-In(2)
228	2069.42	127.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GMCO-20%G-15%M-65%O	1.01
294.00	Clean oil	4.12
0.00	250 gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 18258

DST#: 5

ATTN: John Farmer

Test Start: 2004.01.17 @ 06:13:30

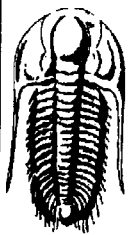
Tool Information

Drill Pipe:	Length: 4213.00 ft	Diameter: 3.80 inches	Volume: 59.10 bbl	Tool Weight:	2600.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume: 59.69 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	4339.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	58.00 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			4320.00	
Shut In Tool	5.00			4325.00	
Hydraulic tool	5.00			4330.00	
Packer	4.00			4334.00	20.00 Bottom Of Top Packer
Packer	5.00			4339.00	
Stubb	1.00			4340.00	
Perforations	5.00			4345.00	
Recorder	0.00	6741	Inside	4345.00	
Perforations	29.00			4374.00	
Recorder	0.00	13308	Outside	4374.00	
Blank Spacing	3.00			4377.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 18258

DST#: 5

ATTN: John Farmer

Test Start: 2004.01.17 @ 06:13:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GMCO-20%G-15%M-65%O	1.011
294.00	Clean oil	4.124
0.00	250 gas in pipe	0.000

Total Length: 444.00 ft

Total Volume: 5.135 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

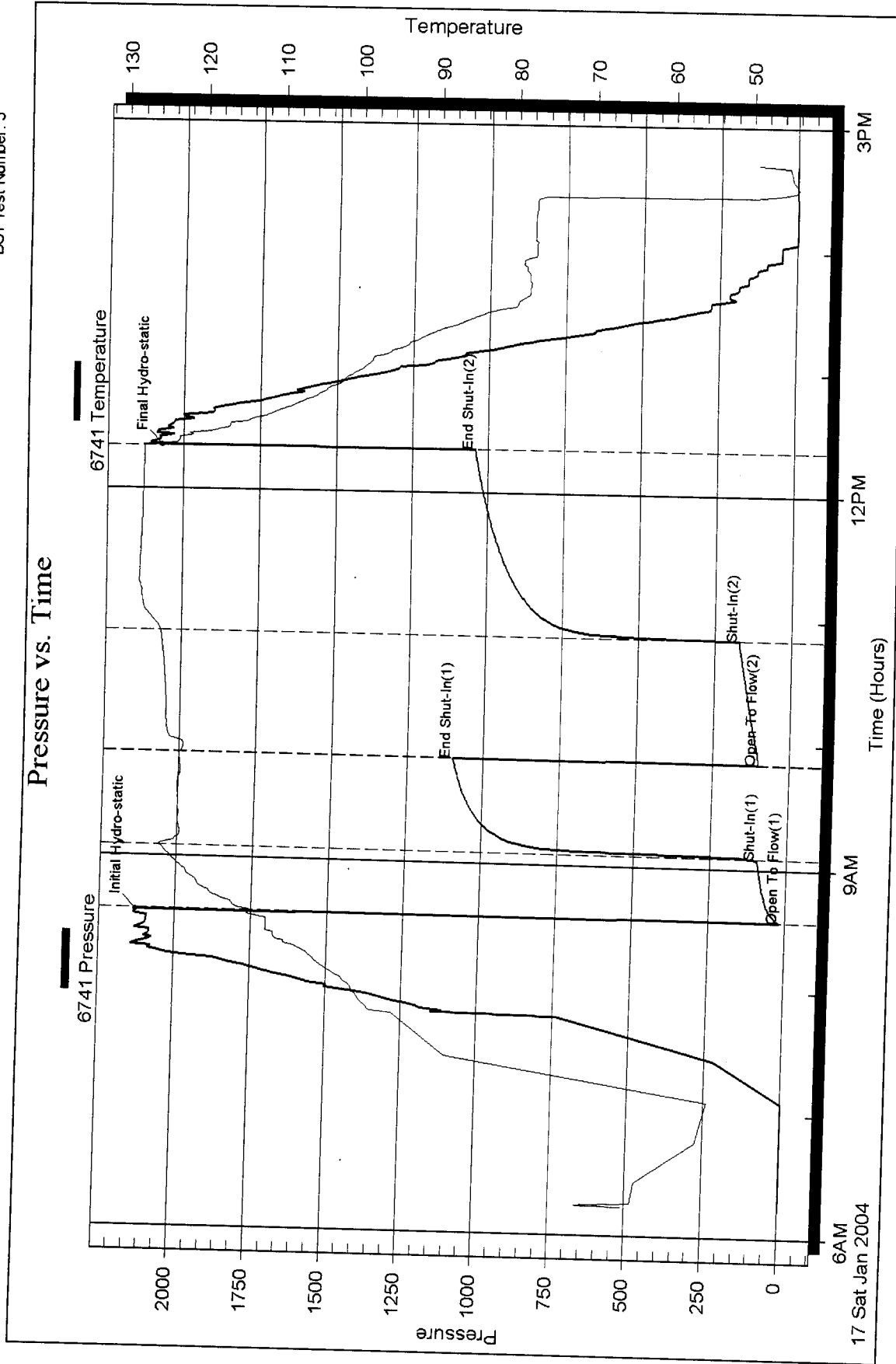
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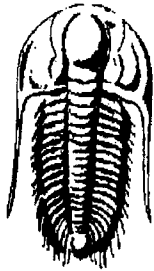
Inside

John O Farmer

2 16s 27w Lane KS

DST Test Number: 5





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

Po Box 352
Russell, KS 67665

ATTN: John Farmer

2 16s 27w Lane KS

Carter #1

Start Date: 2004.01.17 @ 20:56:02

End Date: 2004.01.18 @ 05:39:02

Job Ticket #: 18259 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer

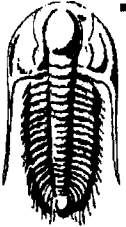
Carter #1

2 16s 27w Lane KS

DST # 6

Miss.

2004.01.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer
 Po Box 352
 Russell, KS 67665
 ATTN: John Farmer

Carter #1
2 16s 27w Lane KS
 Job Ticket: 18259 **DST#: 6**
 Test Start: 2004.01.17 @ 20:56:02

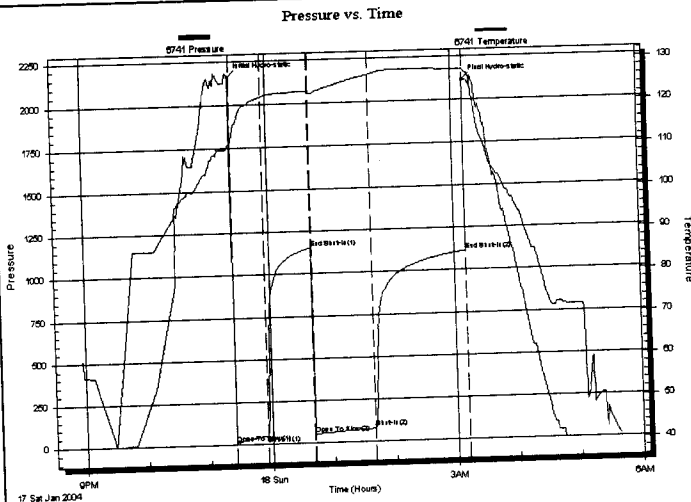
GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:24:32
 Time Test Ended: 05:39:02
 Test Type: Conventional Bottom Hole
 Tester: John Schmidt
 Unit No: 18
 Interval: **4375.00 ft (KB) To 4385.00 ft (KB) (TVD)**
 Total Depth: 4385.00 ft (KB) (TVD)
 Hole Diameter: 77.80 inches Hole Condition: Fair
 Reference Elevations: 2497.00 ft (KB)
 2492.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6741 **Inside**
 Press@RunDepth: 78.02 psig @ 4376.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.01.17 End Date: 2004.01.18 Last Calib.: 2004.01.18
 Start Time: 20:56:04 End Time: 05:39:02 Time On Btm: 2004.01.17 @ 23:24:02
 Time Off Btm: 2004.01.18 @ 03:11:02

TEST COMMENT: IF-Fair built to 6" in. ISI-Dead
 FF-Good built 9" in. FSI-Dead

PRESSURE SUMMARY



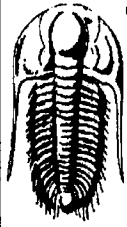
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.61	111.56	Initial Hydro-static
1	8.76	110.54	Open To Flow (1)
31	48.54	122.19	Shut-In(1)
76	1149.78	123.29	End Shut-In(1)
77	50.61	122.81	Open To Flow (2)
136	78.02	126.79	Shut-In(2)
227	1112.10	127.56	End Shut-In(2)
227	2109.04	127.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWOCM-5%G-10%W-15%O-70%M	0.30
135.00	Clean Oil	1.35
0.00	50'gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 18259

DST#: 6

ATTN: John Farmer

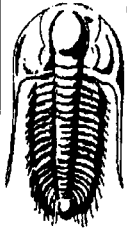
Test Start: 2004.01.17 @ 20:56:02

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4375.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	31.00 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			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Packer	4.00			4370.00	20.00 Bottom Of Top Packer
Packer	5.00			4375.00	
Stubb	1.00			4376.00	
Recorder	0.00	6741	Inside	4376.00	
Perforations	7.00			4383.00	
Recorder	0.00	13308	Outside	4383.00	
Bullnose	3.00			4386.00	11.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Carter #1

Po Box 352
Russell, KS 67665

2 16s 27w Lane KS

Job Ticket: 18259

DST#: 6

ATTN: John Farmer

Test Start: 2004.01.17 @ 20:56:02

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: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	GWOCM-5%G-10%W-15%O-70%M	0.295
135.00	Clean Oil	1.347
0.00	50'gas in pipe	0.000

Total Length: 195.00 ft Total Volume: 1.642 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

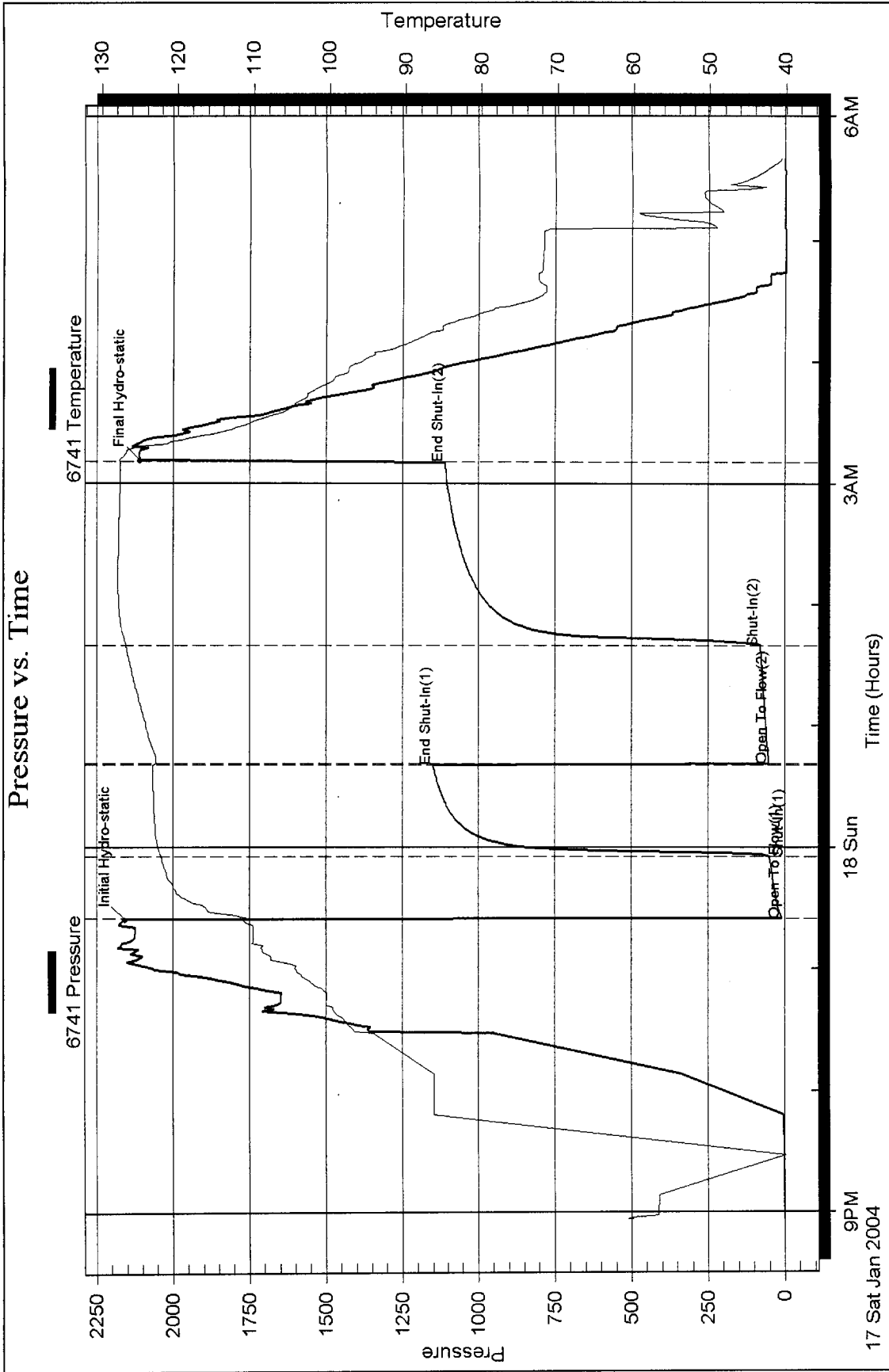
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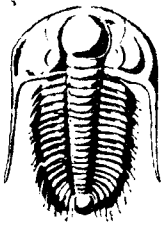
Inside John O Farmer

2 16s 27w Lane KS

DST Test Number: 6

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INW
0137

No 17307

12/02

Test Ticket

Well Name & No. Pickrell Drilling rig #10 Test No. 1 Date 1-13-04
 Company John & Farmer Inc. Zone Tested UKC 70'
 Address ~~3270 FAL & 430 FAL~~ DO BOX 352 RUSSELL KS 67665 Elevation 2497 KB 2492 GL
 Co. Rep / Geo. Kim Shoemaker Cont. Pickrell rig 10 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 16 S Rge. 27 W Co. LANE State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3843-3865 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. _____
 Anchor Length 22' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. _____
 Top Packer Depth ~~3843~~ 3838 Tool Weight 1500
 Bottom Packer Depth 3843 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3865 Wt. Pipe Run N/A Drill Collar Run 118
 Mud Wt. 9.1 LCM _____ Vis. 45 WL 8.8 Drill Pipe Size 4.5X-H Ft. Run 3710
 Blow Description If strong blow BOB 2 min
slut in blew BOB soon as tool opened

Recovery - Total Feet 788 GIP 2800 Ft. in DC 118 Ft. in DP ~~118~~ 682
 Rec. 118 Feet of Mud 80' w 20' M
 Rec. 120 Feet of 6 MG 30' g 50' o 20' M
 Rec. 550 Feet of clean oil 10' g 90'
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .089 @ SA.3 °F Chlorides 105,000 ppm Recovery _____ Chlorides _____ ppm System

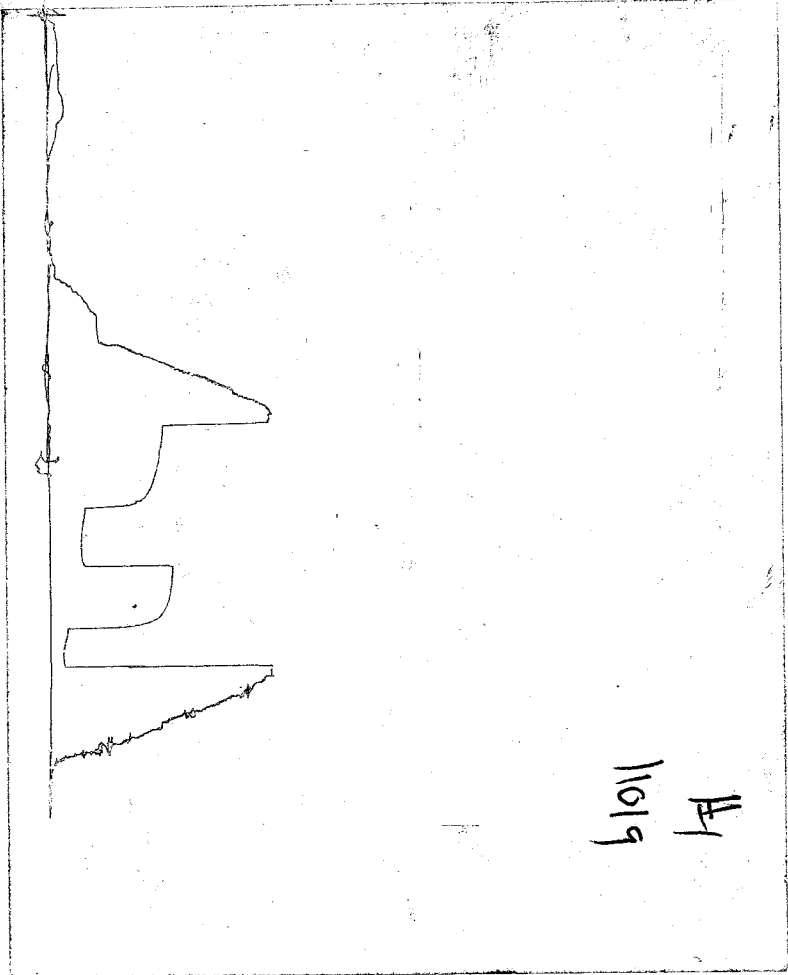
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1904	6769	
(B) First Initial Flow Pressure		38	(depth) 3847	Elec. Rec.
(C) First Final Flow Pressure		177	Recorder No. 11019	Jars
(D) Initial Shut-In Pressure		1054	(depth) 3862	Safety Jt.
(E) Second Initial Flow Pressure		187	Recorder No.	Circ Sub
(F) Second Final Flow Pressure		306	(depth)	Sampler
(G) Final Shut-In Pressure		976	Initial Opening 30	Straddle
(Q) Final Hydrostatic Mud		1855	Initial Shut-In 45	Ext. Packer
			Final Flow 45	Shale Packer
			Final Shut-In 60	Mileage 82
			T-On Location 0900	Sub Total: 919.70
			T-Started 0921	Std. By
			T-Open 1106	Other
			T-Pulled 1406	Total:
			T-Out 1704	

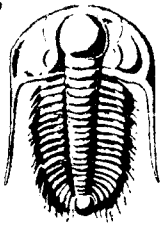
TRILLOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative [Signature]

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17309

12/02

Test Ticket

Well Name & No. Carter #1 Test No. 2 Date 1-14-04
 Company Pickrell Drilling Rig #11 Zone Tested _____
 Address PO BOX 352 Russell KS 67665 Elevation 2497 KB 2492 GL
 Co. Rep / Geo. Kim Spemaker Cont. Pickrell #10 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 16S Rge. 27W Co. LANE State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3924-3970 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length 46' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 3919 Tool Weight 18000
 Bottom Packer Depth 3924 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3970 Wt. Pipe Run N/A Drill Collar Run 118
 Mud Wt. 9.1 LCM _____ Vis. 45 WL 8.8 Drill Pipe Size 4.5 x-H Ft. Run 3803
 Blow Description Weak Blow to 0.75 of an inch
Weak Blow Building to 1.25 of an inch

Recovery - Total Feet 20 GIP 40 Ft. in DC 3803 20 Ft. in DP 20
 Rec. 20 Feet of 500m 5" oil 95" mvd
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

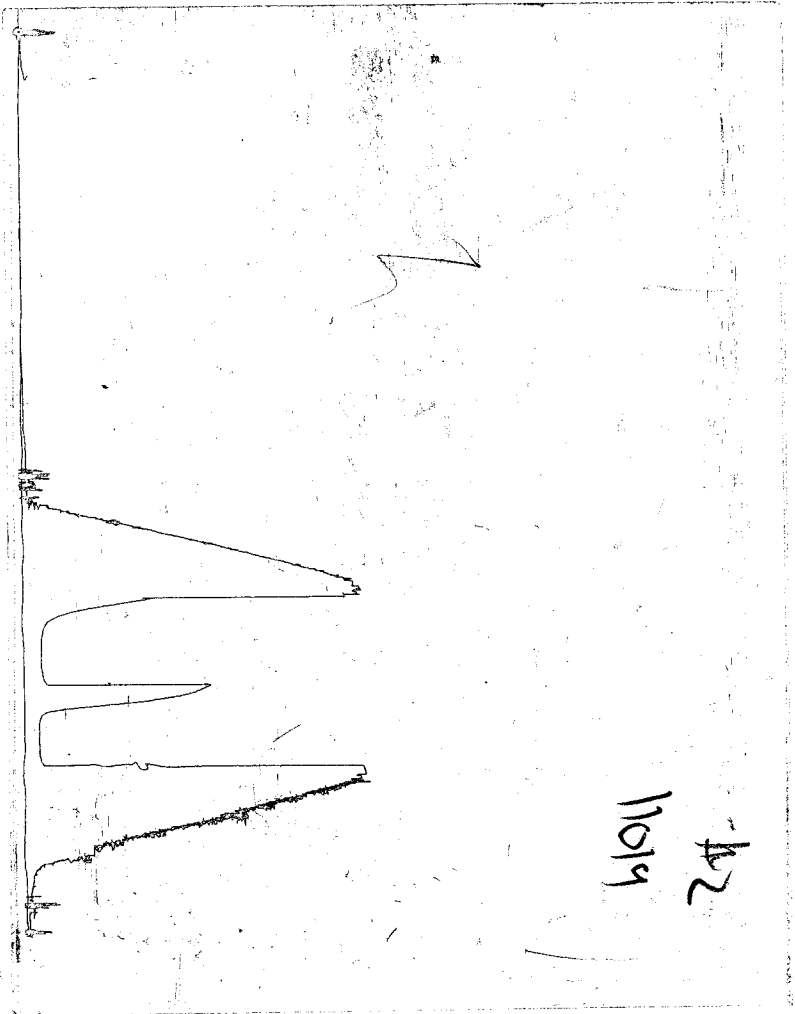
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1901	PSI	6767	_____
(B) First Initial Flow Pressure	16	PSI	(depth) 3928	Elec. Rec. _____
(C) First Final Flow Pressure	27	PSI	Recorder No. 11019	Jars _____
(D) Initial Shut-In Pressure	1084	PSI	(depth) 3967	Safety Jt. _____
(E) Second Initial Flow Pressure	30	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	40	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	754	PSI	Initial Opening 30	Straddle _____
(Q) Final Hydrostatic Mud	1840	PSI	Initial Shut-In 30	Ext. Packer _____
			Final Flow 30	Shale Packer _____
			Final Shut-In 60	Mileage _____
			T-On Location 0700	Sub Total: <u>919.70</u>
			T-Started 0752	Std. By _____
			T-Open 0937	Other _____
			T-Pulled 1145	Total: _____
			T-Out 1320	

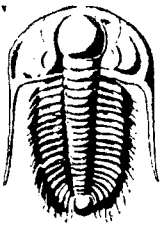
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative Paul Susan

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17312

12/02

Test Ticket

Well Name & No. Carter #1 Test No. 3 Date 1-15-04
 Company John O Farmer Zone Tested LKC 200'
 Address PO Box 352 Russell KS 67665 Elevation 2497 KB 2492 GL
 Co. Rep / Geo. Kim Shoemaker Cont. Pickrell #10 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 16S Rge. 27W Co. Lane State KS
 No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4012-4044 Initial Str Wt./Lbs. 54000 Unseated Str Wt/Lbs. 60000
 Anchor Length 32' Wt. Set Lbs. 24000 Wt. Pulled Loose/Lbs. 84000
 Top Packer Depth 4007 Tool Weight 1800
 Bottom Packer Depth 4012 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4044 Wt. Pipe Run N/A Drill Collar Run HS 90
 Mud Wt. 9.1 LCM _____ Vis. 45 WL 8.8 Drill Pipe Size 4.5 X-H Ft. Run 3891 3923
 Blow Description Weak Blow .25 of an inch
Weak Blow .75 of an inch

Recovery - Total Feet 140 GIP 40 Ft. in DC 20 Ft. in DP _____
 Rec. 140 Feet of SACS Muddy water 60" 40" mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .15 @ 41 °F Chlorides 80,122 ppm Recovery _____ Chlorides _____ ppm System

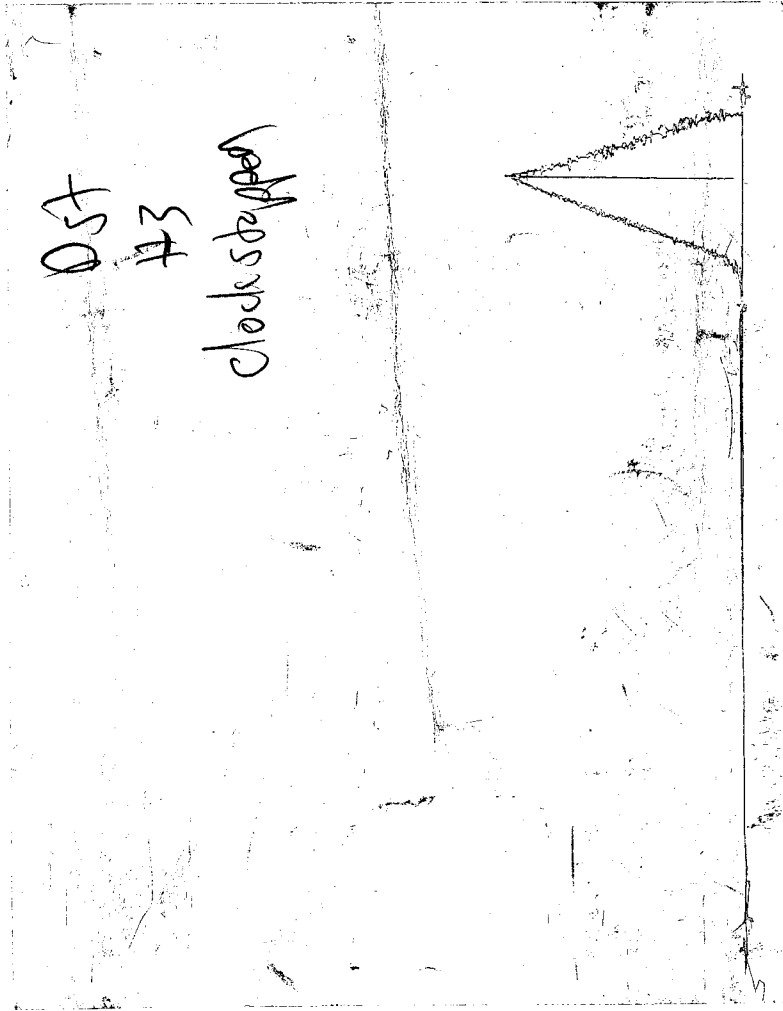
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		1956		6767	
(B) First Initial Flow Pressure		15		(depth) 4016	Elec. Rec.
(C) First Final Flow Pressure		62		Recorder No. 11019	Jars
(D) Initial Shut-In Pressure		982		(depth) 4041	Safety Jt.
(E) Second Initial Flow Pressure		63		Recorder No.	Circ Sub
(F) Second Final Flow Pressure		84		(depth)	Sampler
(G) Final Shut-In Pressure		940		Initial Opening 30	Straddle
(Q) Final Hydrostatic Mud		1928		Initial Shut-In 30	Ext. Packer
				Final Flow 30	Shale Packer
				Final Shut-In 30	Mileage
				T-On Location 00	Sub Total: <u>1019.70</u>
				T-Started 0040	Std. By
				T-Open 0385	Other
				T-Pulled 0435	Total:
				T-Out	

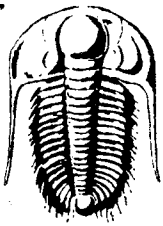
Approved By _____
 Our Representative Paul Simpson

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17313

12/02

Test Ticket

Well Name & No. Carter #1 Test No. 4 Date 1-15-04
 Company John O Farmer Zone Tested LKC 220' L' zone
 Address PO Box 352 Russell KS 67665 Elevation 2497KB 2492 GL
 Co. Rep / Geo. Kim Sloemaker Cont. Pilkren #10 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 16S Rge. 27W Co. Lane State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4046-4074 Initial Str Wt./Lbs. 50000 Unseated Str Wt/Lbs. 50000
 Anchor Length 28 Wt. Set Lbs. 24000 Wt. Pulled Loose/Lbs. 70000
 Top Packer Depth 4041- Tool Weight 1800
 Bottom Packer Depth 4046 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4074 Wt. Pipe Run N/A Drill Collar Run 118
 Mud Wt. 9.1 LCM _____ Vis. 45 WL 8.8 Drill Pipe Size 4.5 X-H Ft. Run 3926
 Blow Description WEAK BLOW .25 OF AN INCH
WEAK SURFACE DIED AFTER 15 MIN

Recovery - Total Feet 5 GIP _____ Ft. in DC 5 Ft. in DP _____
 Rec. 5 Feet of Mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 109 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

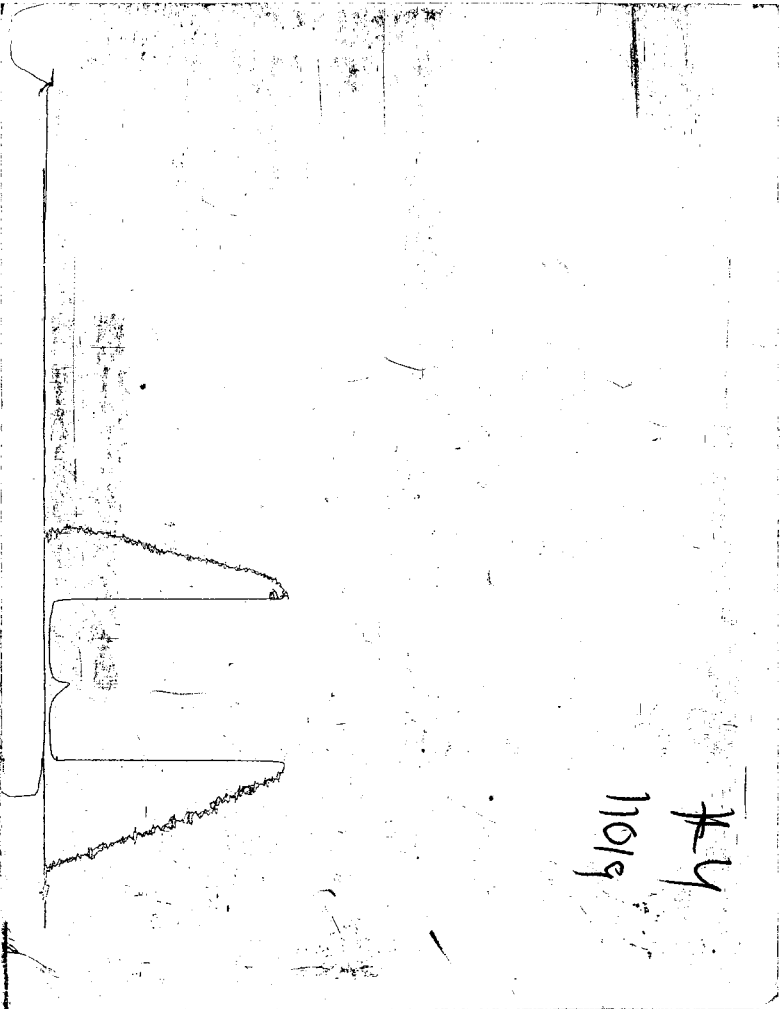
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		1976		6869	
(B) First Initial Flow Pressure		15		(depth) 4030	Elec. Rec.
(C) First Final Flow Pressure		21		Recorder No. 11019	Jars
(D) Initial Shut-In Pressure		280		(depth) 4071	Safety Jt.
(E) Second Initial Flow Pressure		22		Recorder No.	Circ Sub
(F) Second Final Flow Pressure		30		(depth)	Sampler
(G) Final Shut-In Pressure		99		Initial Opening 30	Straddle
(Q) Final Hydrostatic Mud		1958		Initial Shut-In 30	Ext. Packer
				Final Flow 30	Shale Packer
				Final Shut-In 30	Mileage
				T-On Location 9400	Sub Total: 1019.70
				T-Started 9530	Std. By
				T-Open 1406	Other
				T-Pulled 1606	Total:
				T-Out	

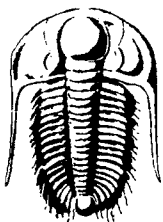
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Approved By [Signature]
 Our Representative _____

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 18258

Test Ticket

Well Name & No. JOHN O. F. CARTER #1 Test No. #5 Date 1-17-04
 Company JOHN O. FARMER INC. Zone Tested MISS.
 Address P.O. BOX 352 RUSSELL, KS 67665 Elevation 2485 KB 2480 GL
 Co. Rep / Geo. KIM SHOEMAKER Cont. PICKRELL #10 Est. Ft. of Pay 2497 Por. 2492 %
 Location: Sec. 2 Twp. 16S Rge. 27W Co. LANE State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4339 TO 4377 Initial Str Wt./Lbs. 51,000 Unseated Str Wt/Lbs. 53,000
 Anchor Length 38' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 69,000
 Top Packer Depth 4334 Tool Weight 2600
 Bottom Packer Depth 4339 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4377 Wt. Pipe Run 0 Drill Collar Run 120
 Mud Wt. 9.3 LCM 1/2# Vis. 44 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 4213
 Blow Description IF-GOOD TO STRONG B.O.B. 18-MIN. ISI. WEAK SURF. BLOW
FF-GOOD TO STRONG B.O.B. 21-MIN. FSI-GOOD BLOW BACK 1" IN.

Recovery - Total Feet	<u>444'</u>	GIP	<u>250'</u>	Ft. in DC	<u>120</u>	Ft. in DP	<u>324</u>
Rec.	<u>150</u>	Feet of	<u>GMCO</u>	%gas	<u>20</u>	%oil	<u>65</u>
				%water		%mud	<u>15</u>
Rec.	<u>294'</u>	Feet of	<u>CLEAN OIL</u>	%gas	<u>100</u>	%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	<u>127</u>	°F Gravity	<u>39</u>	°API D @	<u>70</u>	°F Corrected Gravity	<u>38</u>
RW		@		°F		Chlorides	<u>4,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2128 PSI	Recorder No.	<u>0741</u>	Test	<u>B. HOLE</u>
(B) First Initial Flow Pressure			18 PSI	(depth)	<u>4345</u>	Elec. Rec.	<u>✓</u>
(C) First Final Flow Pressure			97 PSI	Recorder No.	<u>13308</u>	Jars	
(D) Initial Shut-In Pressure			1102 PSI	(depth)	<u>4374</u>	Safety Jt.	
(E) Second Initial Flow Pressure			101 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure			170 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure			1042 PSI	Initial Opening	<u>30</u>	Straddle	
(Q) Final Hydrostatic Mud			2069 PSI	Initial Shut-In	<u>45</u>	Ext. Packer	

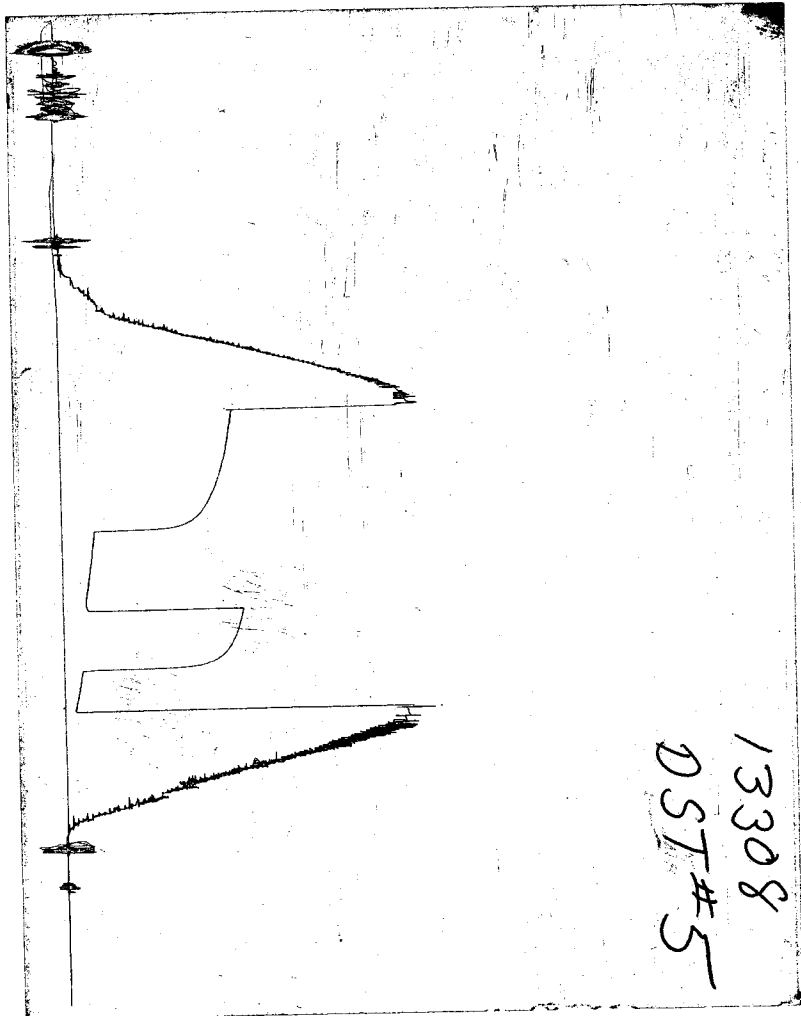
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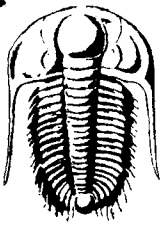
Approved By [Signature]
 Our Representative John F. Schmidt

Final Flow	<u>60</u>	Mileage	<u>75</u>
Final Shut-In	<u>90</u>	Sub Total:	<u>1019.70</u>
T-On Location	<u>05:00</u>	Std. By <u>4hr</u>	<u>22.50</u>
T-Started	<u>06:13</u>	Other	
T-Open	<u>08:34</u>	Total:	<u>1042.20</u>
T-Pulled	<u>12:21</u>		
T-Out	<u>14:41</u>		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18259

05/03

Test Ticket

Well Name & No. CARTER #1 Test No. # 6 Date 1-17-04
 Company JOHN O. FARMER INC. Zone Tested MISS.
 Address P.O. Box 352 RUSSELL, KS. 67665 Elevation 2497 KB 2492 GL
 Co. Rep / Geo. KIM SHOEMAKER Cont. PICKRELL #10 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 16S Rge. 27W Co. LANE State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4375 TO 4385 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 58,000
 Anchor Length 10' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 4370 Tool Weight 2,000
 Bottom Packer Depth 4375 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4385 Wt. Pipe Run 0 Drill Collar Run 120'
 Mud Wt. 9.3 LCM TR Vis. 47 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 4265
 Blow Description FF- FAIR BUILT TO 6" IN FSI- DEAD
FF- GOOD BUILT 9" IN FSI- DEAD

Recovery - Total Feet 195' GIP 50' Ft. in DC 120 Ft. in DP 75
 Rec. 60' Feet of GWOCM 5 %gas 15 %oil 10 %water 70 %mud
 Rec. 135 Feet of CLEAN OIL %gas 100 %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 127 °F Gravity 39 °API D @ 70 °F Corrected Gravity 38 °API
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 9,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	2156	PSI	<u>6741</u>	<u>B. HOLE</u>
(B) First Initial Flow Pressure	8	PSI	<u>4376</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	48	PSI	<u>13308</u>	Jars _____
(D) Initial Shut-In Pressure	1149	PSI	<u>4382</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	50	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	78	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	1112	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	2109	PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
			Final Flow <u>60</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>75</u>
			T-On Location <u>20:00</u>	Sub Total: <u>1019.70</u>
			T-Started <u>20:56</u>	Std. By <u>2hr 15</u>
			T-Open <u>23:25</u>	Other _____
			T-Pulled <u>03:11</u>	Total: <u>1034.70</u>
			T-Out <u>05:39</u>	

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Approved By [Signature]
 Our Representative John F. Schmidt

CHART PAGE

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