

## DRILL STEM TEST REPORT

Prepared For: **R L Investment LLC**

217 St.Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**18 10 28 Sheridan KS**

**Clark #1**

Start Date: 2007.05.05 @ 01:44:41

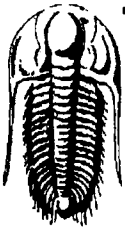
End Date: 2007.05.05 @ 09:17:35

Job Ticket #: 28169                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

RL Investment LLC

217 St.Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**Clark #1**

**18 10 28 Sheridan KS**

Job Ticket: 28169

**DST#: 1**

Test Start: 2007.05.05 @ 01:44:41

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:06

Time Test Ended: 09:17:35

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

**Interval: 3876.00 ft (KB) To 3941.00 ft (KB) (TVD)**

Total Depth: 3941.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2825.00 ft (KB)

2820.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6753 Inside**

Press@RunDepth: 486.51 psig @ 3881.01 ft (KB)

Start Date: 2007.05.05

End Date: 2007.05.05

Start Time: 01:44:41

End Time: 09:17:35

Capacity: 7000.00 psig

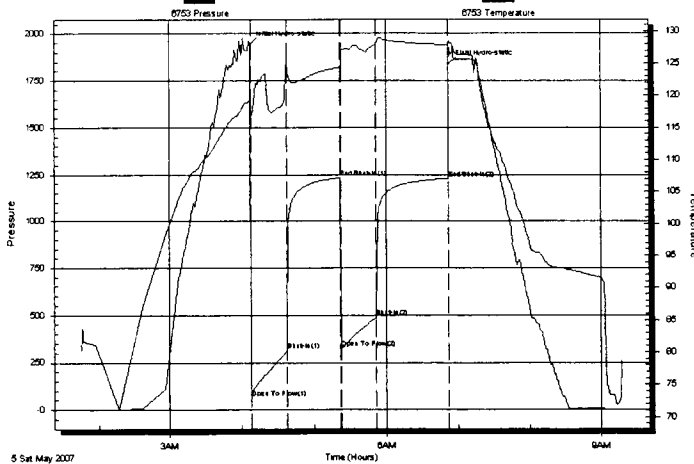
Last Calib.: 2007.05.05

Time On Btm: 2007.05.05 @ 04:07:36

Time Off Btm: 2007.05.05 @ 06:52:35

**TEST COMMENT:** IFP Strg bl in 5 min  
FFP Strg bl in 9 min  
Times 30 45 30 60  
No bl on shut-in

Pressure vs. Time



## PRESSURE SUMMARY

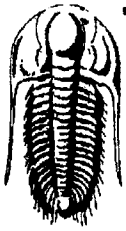
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.79	119.15	Initial Hydro-static
1	62.89	117.15	Open To Flow (1)
30	311.77	125.55	Shut-In(1)
74	1231.58	124.40	End Shut-In(1)
75	322.14	124.73	Open To Flow(2)
104	486.51	127.83	Shut-In(2)
165	1229.29	127.86	End Shut-In(2)
165	1839.15	128.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	MW 25%M 75%W w/show of Oil	2.39
744.00	Water Rw .13 @ 77F	10.44

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

R.L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28169

**DST#: 1**

ATTN: Leon Pfeifer

Test Start: 2007.05.05 @ 01:44:41

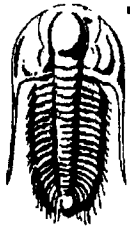
**Tool Information**

Drill Pipe:	Length: 3752.00 ft	Diameter: 3.80 inches	Volume: 52.63 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 53.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3876.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	86.02 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			3856.00	
Shut In Tool	5.00			3861.00	
Hydraulic tool	5.00			3866.00	
Packer	5.00			3871.00	21.00 Bottom Of Top Packer
Packer	5.00			3876.00	
Stubb	1.00			3877.00	
Perforations	4.00			3881.00	
Recorder	0.01	6753	Inside	3881.01	
Blank Spacing	32.00			3913.01	
Recorder	0.01	13534	Outside	3913.02	
Perforations	25.00			3938.02	
Bullnose	3.00			3941.02	65.02 Bottom Packers & Anchor

**Total Tool Length: 86.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

R L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28169

**DST#: 1**

ATTN: Leon Pfeifer

Test Start: 2007.05.05 @ 01:44:41

**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:	47000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
248.00	MW 25%M 75%W w/show of Oil	2.386
744.00	Water Rw .13 @ 77F	10.436

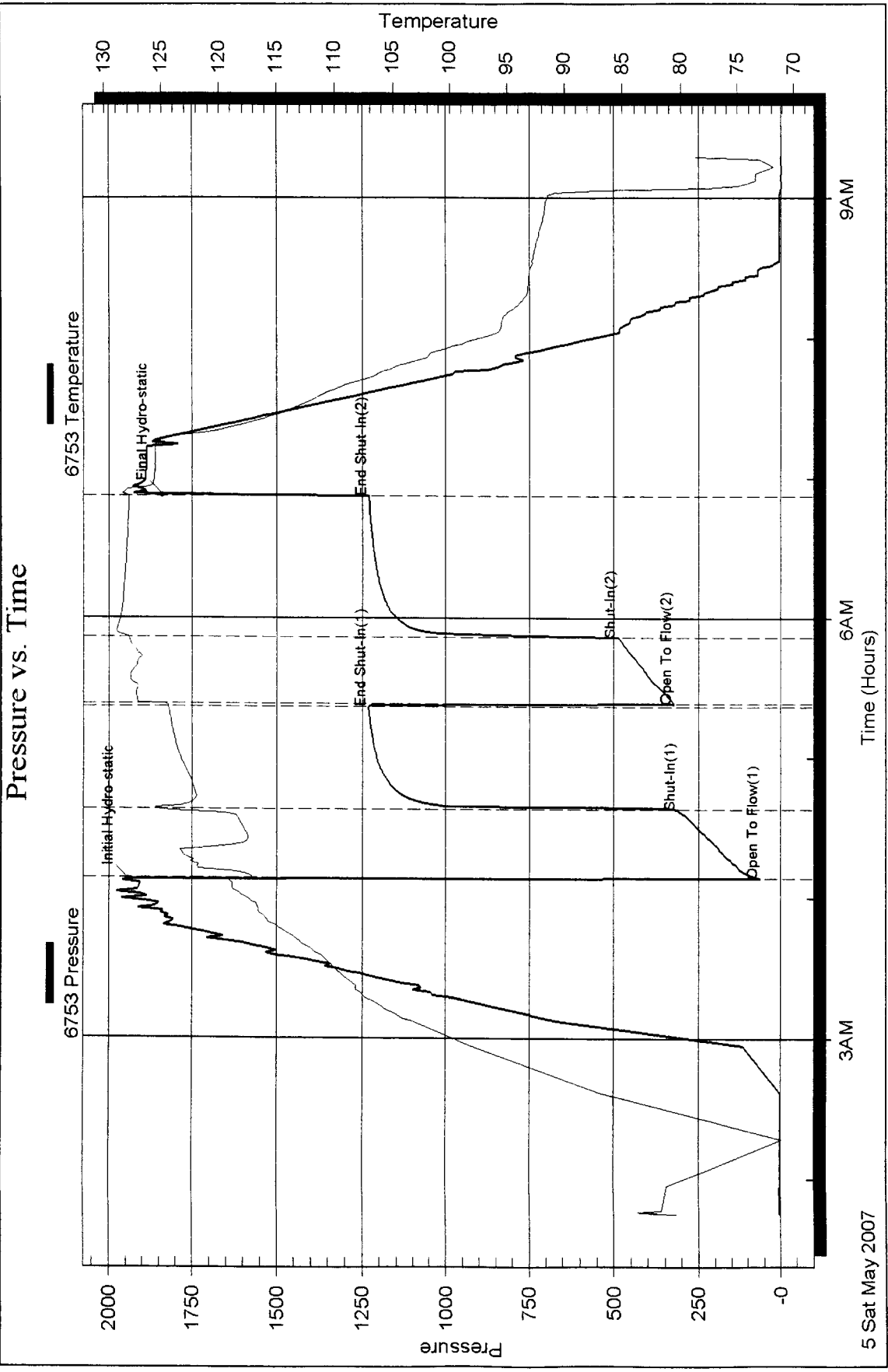
Total Length: 992.00 ft      Total Volume: 12.822 bbl

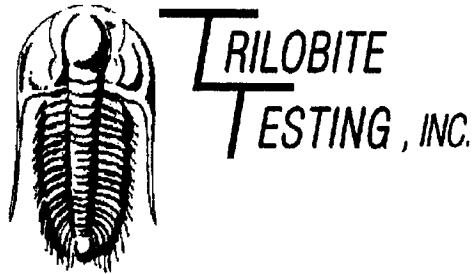
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **R L Investment LLC**

217 St. Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**18 10 28 Sheridan KS**

**Clark #1**

Start Date: 2007.05.05 @ 17:11:16

End Date: 2007.05.05 @ 21:25:41

Job Ticket #: 28170                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC**

# DRILL STEM TEST REPORT

RL Investment LLC

217 St.Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**Clark #1**

**18 10 28 Sheridan KS**

Job Ticket: 28170

**DST#: 2**

Test Start: 2007.05.05 @ 17:11:16

## GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:57:41

Time Test Ended: 21:25:41

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3956.00 ft (KB) To 3975.00 ft (KB) (TVD)**

Total Depth: 3975.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2825.00 ft (KB)

2820.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6753 Inside**

Press@RunDepth: 21.34 psig @ 3957.01 ft (KB)

Start Date: 2007.05.05

End Date: 2007.05.05

Start Time: 17:11:16

End Time: 21:25:41

Capacity: 7000.00 psig

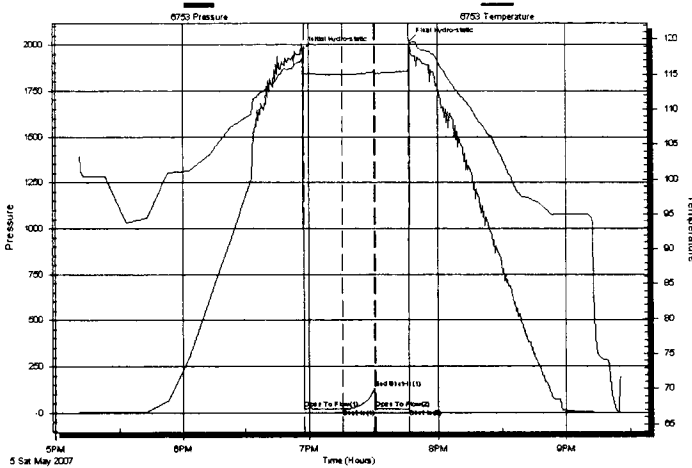
Last Calib.: 2007.05.05

Time On Btm: 2007.05.05 @ 18:57:11

Time Off Btm: 2007.05.05 @ 19:47:11

**TEST COMMENT:** IFP Very wk surface bl died in 5 min  
FFP Surge then dead thru-out  
Times 15 15 15 out

Pressure vs. Time



## PRESSURE SUMMARY

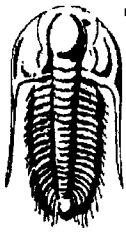
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.72	117.28	Initial Hydro-static
1	19.44	115.12	Open To Flow (1)
19	21.34	114.94	Shut-In (1)
34	130.30	115.38	End Shut-In (1)
34	18.72	115.11	Open To Flow (2)
50	19.84	115.46	Shut-In (2)
50	2018.16	118.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil	0.00

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

R L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28170

**DST#: 2**

ATTN: Leon Pfeifer

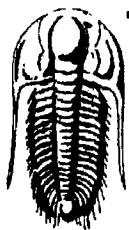
Test Start: 2007.05.05 @ 17:11:16

**Tool Information**

Drill Pipe:	Length: 3839.00 ft	Diameter: 3.80 inches	Volume: 53.85 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3956.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.02 ft			
Tool Length:	40.02 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			3936.00	
Shut In Tool	5.00			3941.00	
Hydraulic tool	5.00			3946.00	
Packer	5.00			3951.00	21.00 Bottom Of Top Packer
Packer	5.00			3956.00	
Stubb	1.00			3957.00	
Recorder	0.01	6753	Inside	3957.01	
Perforations	15.00			3972.01	
Recorder	0.01	13534	Outside	3972.02	
Bullnose	3.00			3975.02	19.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.02</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R.L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28170

**DST#: 2**

ATTN: Leon Pfeifer

Test Start: 2007.05.05 @ 17:11:16

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Oil	0.005

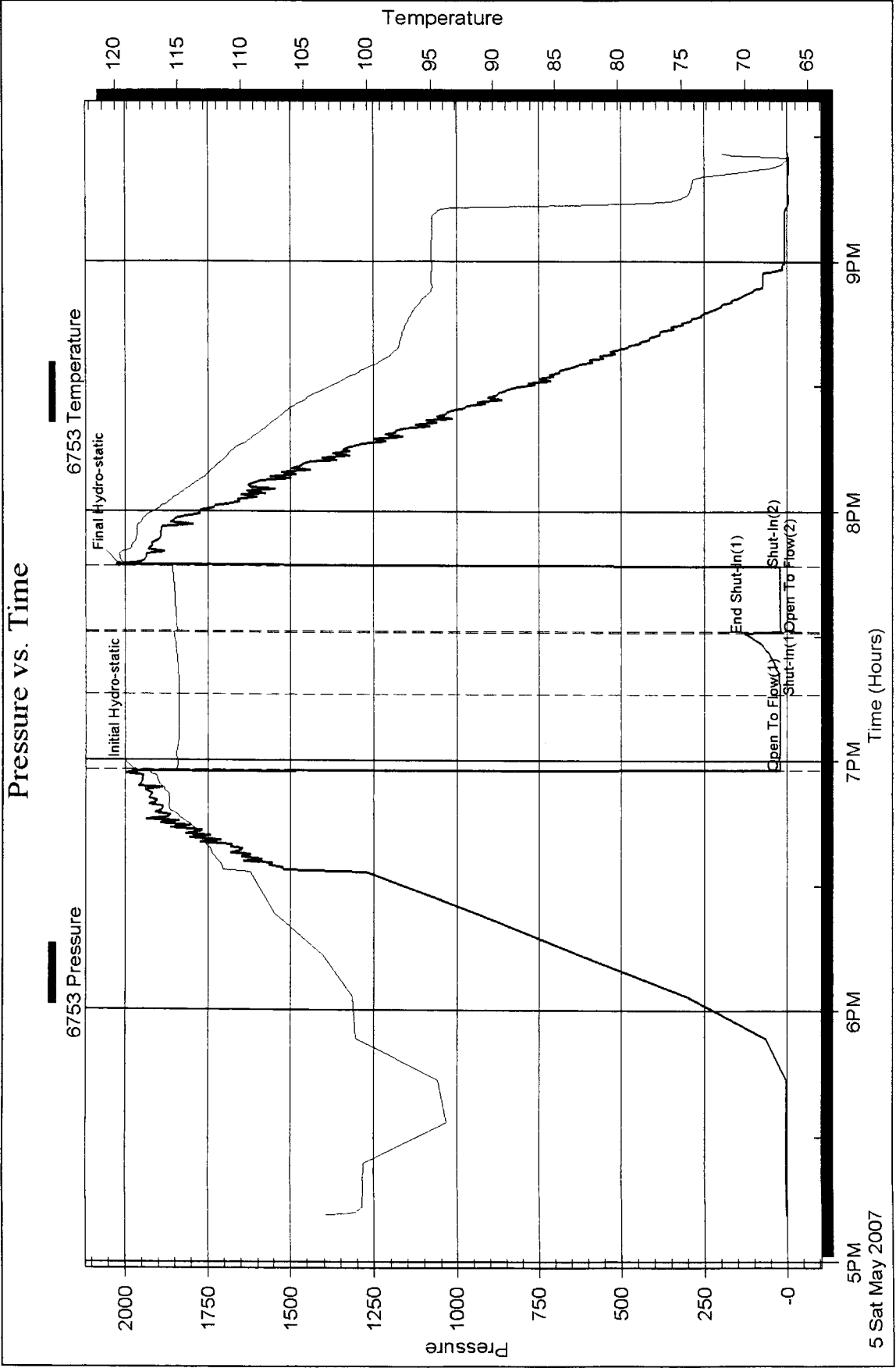
Total Length: 1.00 ft      Total Volume: 0.005 bbl

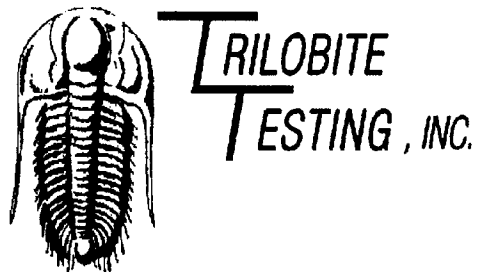
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **R L Investment LLC**

217 St.Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**18 10 28 Sheridan KS**

**Clark #1**

Start Date: 2007.05.06 @ 06:38:42

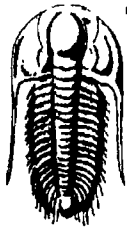
End Date: 2007.05.06 @ 13:45:36

Job Ticket #: 28171                      DST #: 3

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



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TESTING, INC**

# DRILL STEM TEST REPORT

R.L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

ATTN: Leon Pfeifer

Job Ticket: 28171

**DST#: 3**

Test Start: 2007.05.06 @ 06:38:42

## GENERAL INFORMATION:

Formation: **LKC B-F**

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

Time Tool Opened: 08:38:37

Time Test Ended: 13:45:36

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3954.00 ft (KB) To 4020.00 ft (KB) (TVD)**

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

2820.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Inside**

Press@RunDepth: 314.79 psig @ 3959.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.05.06

End Date: 2007.05.06

Last Calib.: 2007.05.06

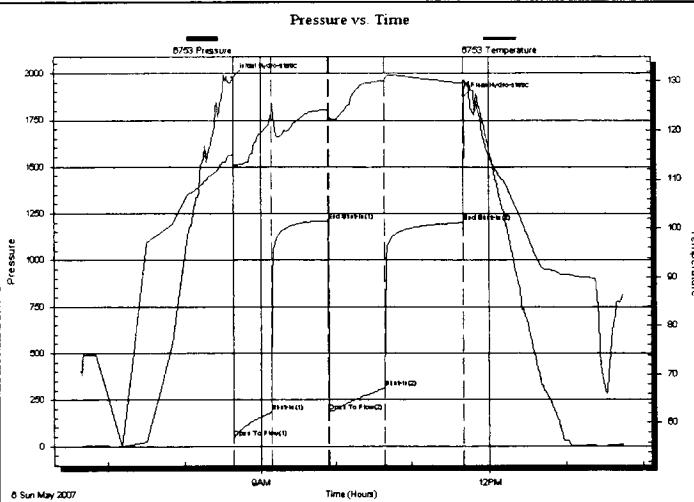
Start Time: 06:38:42

End Time: 13:45:36

Time On Btm: 2007.05.06 @ 08:38:07

Time Off Btm: 2007.05.06 @ 11:41:06

**TEST COMMENT:** IFP Wk to a fr bl 1/2 " to 4 " bl  
FFP Wk to a fr bl 1/4 " to 3 1/2 " bl  
Times 30 45 45 60  
No bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.84	115.16	Initial Hydro-static
1	46.63	113.05	Open To Flow (1)
31	184.31	124.12	Shut-In(1)
76	1210.80	124.19	End Shut-In(1)
76	185.03	122.80	Open To Flow (2)
121	314.79	130.19	Shut-In(2)
183	1202.43	129.66	End Shut-In(2)
183	1878.49	130.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	Water RW .14 @ 80F	3.12
120.00	SOCMW 2%O 15%W 83%M	1.68
120.00	SOCMW 2%O 68%W 30%M	1.68

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

R.L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28171

**DST#: 3**

ATTN: Leon Pfeifer

Test Start: 2007.05.06 @ 06:38:42

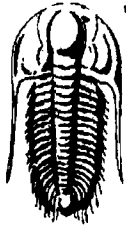
**Tool Information**

Drill Pipe:	Length: 3843.00 ft	Diameter: 3.80 inches	Volume: 53.91 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3954.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.02 ft			
Tool Length:	87.02 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			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Packer	5.00			3949.00	21.00 Bottom Of Top Packer
Packer	5.00			3954.00	
Stubb	1.00			3955.00	
Perforations	4.00			3959.00	
Recorder	0.01	6753	Inside	3959.01	
Blank Spacing	33.00			3992.01	
Recorder	0.01	13534	Outside	3992.02	
Perforations	25.00			4017.02	
Bullnose	3.00			4020.02	66.02 Bottom Packers & Anchor

**Total Tool Length: 87.02**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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Mbrland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28171

**DST#: 3**

ATTN: Leon Pfeifer

Test Start: 2007.05.06 @ 06:38:42

**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:

46000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
300.00	Water RW .14 @ 80F	3.115
120.00	SOCVM 2%O 15%W 83%M	1.683
120.00	SOCMV 2%O 68%W 30%M	1.683

Total Length: 540.00 ft

Total Volume: 6.481 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

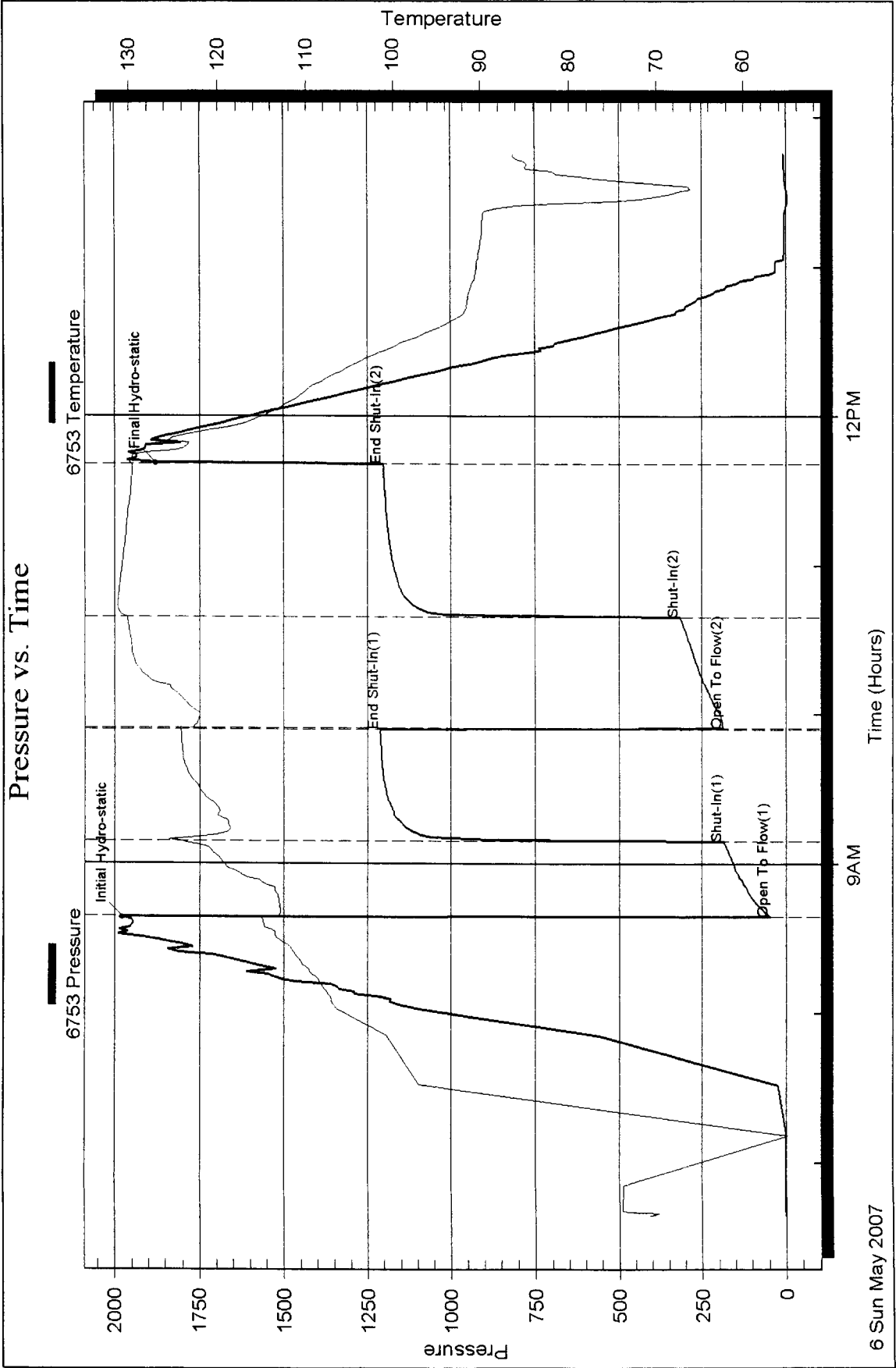
Serial #:

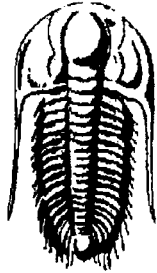
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **R L Investment LLC**

217 St. Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**18 10 28 Sheridan KS**

**Clark #1**

Start Date: 2007.05.07 @ 03:52:30

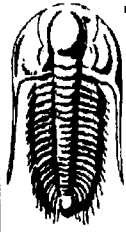
End Date: 2007.05.07 @ 08:02:55

Job Ticket #: 28172                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

R.L Investment LLC  
217 St.Peter Street  
Morland KS 67650  
ATTN: Leon Pfeifer

**Clark #1**  
**18 10 28 Sheridan KS**  
Job Ticket: 28172      **DST#: 4**  
Test Start: 2007.05.07 @ 03:52:30

## GENERAL INFORMATION:

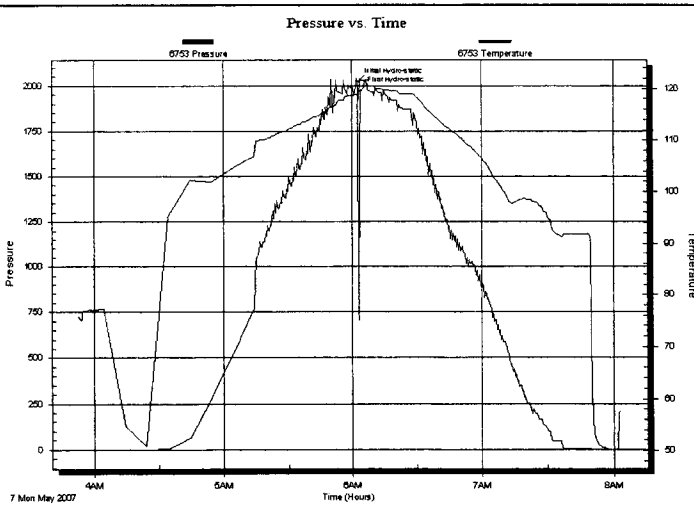
Formation: **LKC I-J**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 08:02:55  
 Interval: **4080.00 ft (KB) To 4118.00 ft (KB) (TVD)**  
 Total Depth: 4118.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 28  
 Reference Elevations: 2825.00 ft (KB)  
 2820.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6753

Inside

Press@RunDepth:      psig @ 4085.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.05.07      End Date: 2007.05.07      Last Calib.: 2007.05.07  
 Start Time: 03:52:30      End Time: 08:02:55      Time On Btm: 2007.05.07 @ 06:02:25  
 Time Off Btm: 2007.05.07 @ 06:03:55

TEST COMMENT: IFP Packer Failure Set packers twice



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.53	118.96	Initial Hydro-static
2	1969.91	121.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
420.00	Mud	4.80

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

R L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28172

**DST#: 4**

ATTN: Leon Pfeifer

Test Start: 2007.05.07 @ 03:52:30

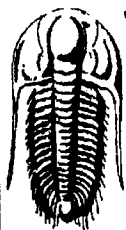
**Tool Information**

Drill Pipe:	Length: 3969.00 ft	Diameter: 3.80 inches	Volume: 55.67 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4080.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.02 ft			
Tool Length:	59.02 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			4060.00	
Shut In Tool	5.00			4065.00	
Hydraulic tool	5.00			4070.00	
Packer	5.00			4075.00	21.00 Bottom Of Top Packer
Packer	5.00			4080.00	
Stubb	1.00			4081.00	
Perforations	4.00			4085.00	
Recorder	0.01	6753	Inside	4085.01	
Perforations	30.00			4115.01	
Recorder	0.01	13534	Outside	4115.02	
Bullnose	3.00			4118.02	38.02 Bottom Packers & Anchor

**Total Tool Length: 59.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28172

**DST#: 4**

ATTN: Leon Pfeifer

Test Start: 2007.05.07 @ 03:52:30

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Mud	4.798

Total Length: 420.00 ft      Total Volume: 4.798 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6753

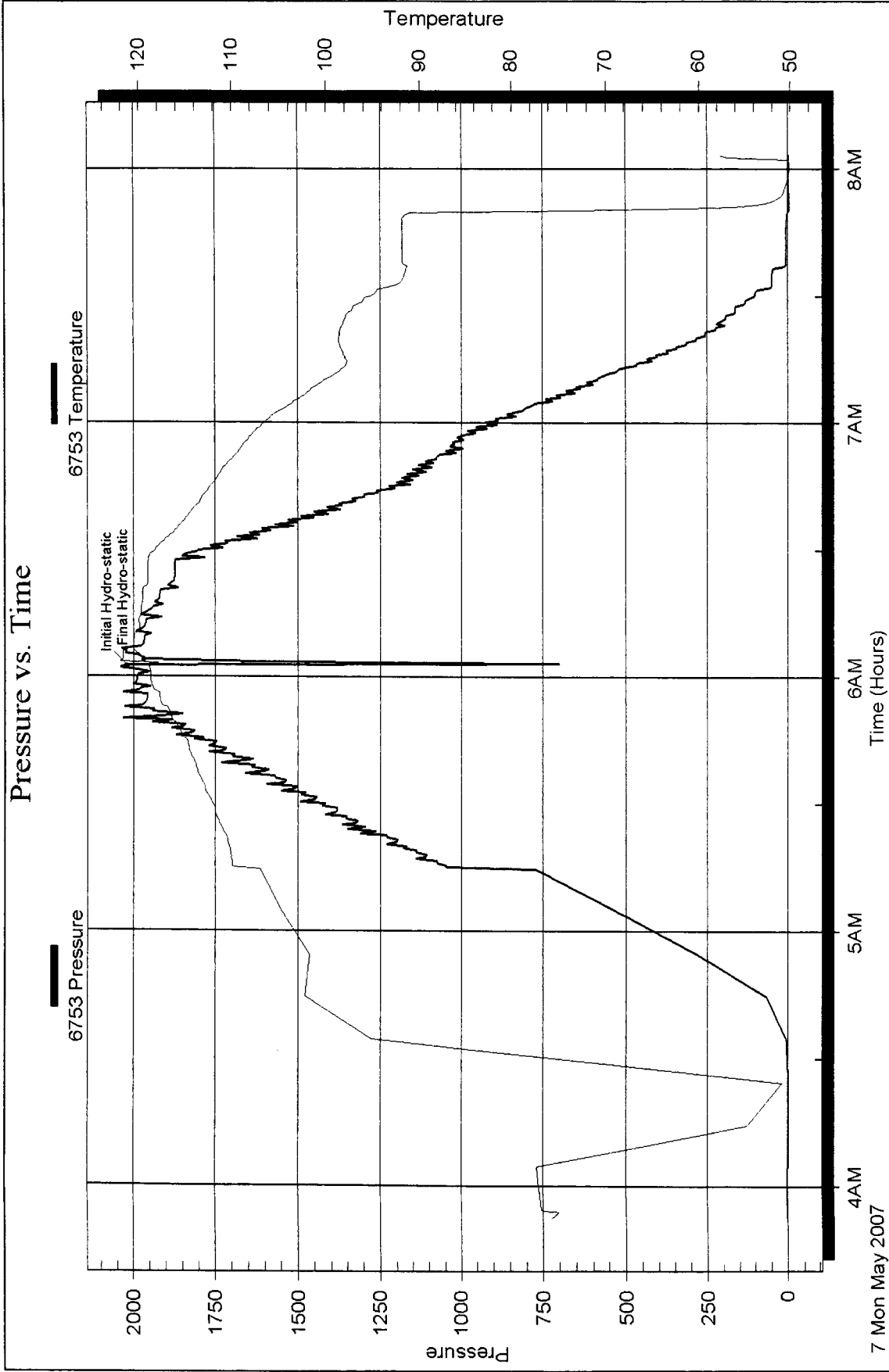
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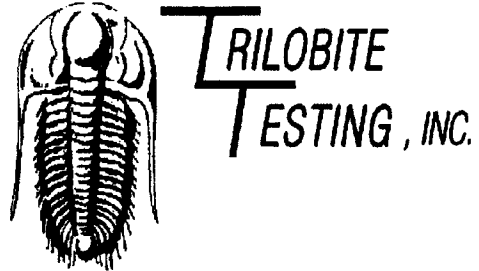
R.L. Investment LLC

18 10 28 Sheridan KS

DST Test Number: 4

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **R L Investment LLC**

217 St. Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**18 10 28 Sheridan KS**

**Clark #1**

Start Date: 2007.05.07 @ 08:08:02

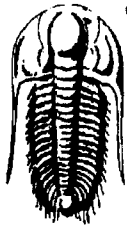
End Date: 2007.05.07 @ 14:06:56

Job Ticket #: 28173                      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

R L Investment LLC

217 St.Peter Street  
Morland KS 67650

ATTN: Leon Pfeifer

**Clark #1**

**18 10 28 Sheridan KS**

Job Ticket: 28173

**DST#: 5**

Test Start: 2007.05.07 @ 08:08:02

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:57

Time Test Ended: 14:06:56

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

**Interval: 4054.00 ft (KB) To 4118.00 ft (KB) (TVD)**

Total Depth: 4118.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2825.00 ft (KB)

2820.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Inside**

Press@RunDepth: 70.18 psig @ 4058.01 ft (KB)

Start Date: 2007.05.07

End Date: 2007.05.07

Start Time: 08:08:02

End Time: 14:06:56

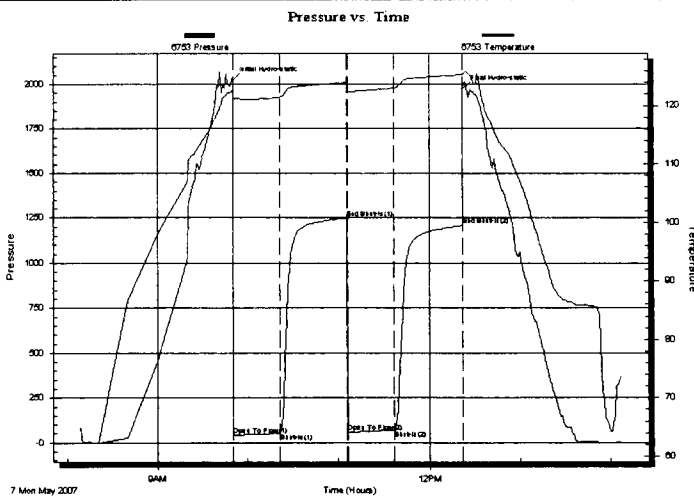
Capacity: 7000.00 psig

Last Calib.: 2007.05.07

Time On Btm: 2007.05.07 @ 09:50:27

Time Off Btm: 2007.05.07 @ 12:22:27

**TEST COMMENT:** IFP Wk bl thru-out 1/4 " to 1/2 " bl  
FFP No bl 1st 10 min then surface bl thru-out  
Times 30 45 30 45



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.94	122.83	Initial Hydro-static
1	40.16	121.22	Open To Flow (1)
31	52.85	121.40	Shut-In(1)
75	1249.19	124.01	End Shut-In(1)
76	60.61	122.21	Open To Flow (2)
106	70.18	123.02	Shut-In(2)
152	1208.11	125.35	End Shut-In(2)
152	1975.31	125.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 40%M 60%W w/show of Oil in tool	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

R L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28173

**DST#: 5**

ATTN: Leon Pfeifer

Test Start: 2007.05.07 @ 08:08:02

**Tool Information**

Drill Pipe:	Length: 3937.00 ft	Diameter: 3.80 inches	Volume: 55.23 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4054.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.02 ft			
Tool Length:	85.02 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			4034.00	
Shut In Tool	5.00			4039.00	
Hydraulic tool	5.00			4044.00	
Packer	5.00			4049.00	21.00 Bottom Of Top Packer
Packer	5.00			4054.00	
Stubb	1.00			4055.00	
Perforations	3.00			4058.00	
Recorder	0.01	6753	Inside	4058.01	
Blank Spacing	32.00			4090.01	
Recorder	0.01	13534	Outside	4090.02	
Perforations	25.00			4115.02	
Bullnose	3.00			4118.02	64.02 Bottom Packers & Anchor

**Total Tool Length: 85.02**



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

R L Investment LLC

**Clark #1**

217 St.Peter Street  
Morland KS 67650

**18 10 28 Sheridan KS**

Job Ticket: 28173

**DST#: 5**

ATTN: Leon Pfeifer

Test Start: 2007.05.07 @ 08:08:02

**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:	38000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
65.00	MW 40%M 60%W w/show of Oil in tool	0.320

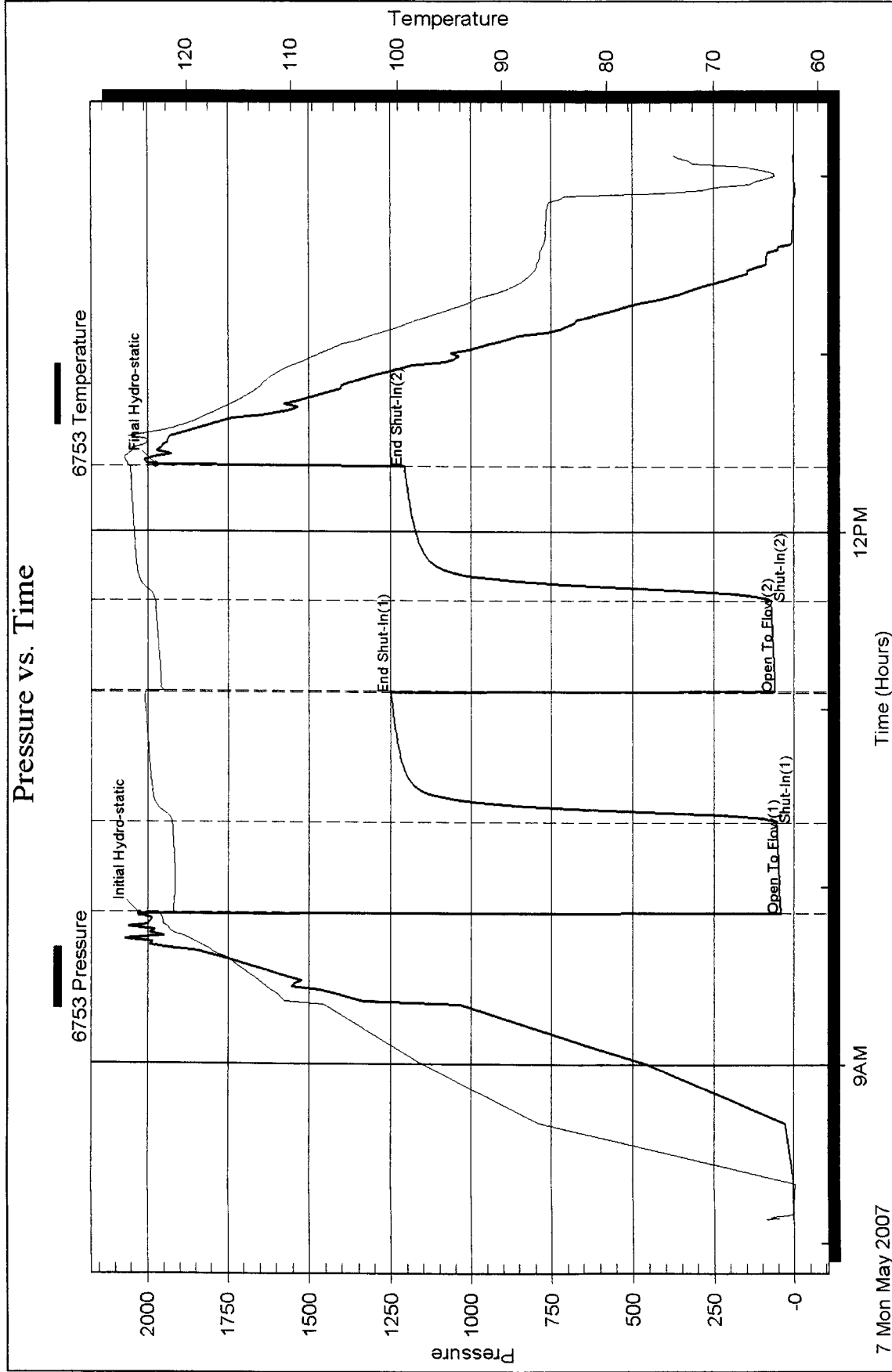
Total Length: 65.00 ft      Total Volume: 0.320 bbl

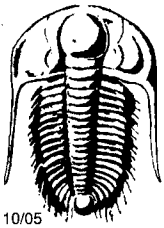
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .18 @ 75F

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28169

10131

## Test Ticket

Well Name & No. CLARK #1 Test No. 1 Date 5-5-07  
 Company R.L. Investment LLC Zone Tested TORONTO  
 Address 217 ST. PETER STREET MORLAND, Ks 67650 Elevation 2825 KB 2820 GL  
 Co. Rep / Geo. PAT Deenihan Rig WW rig 4  
 Location: Sec. 18 Twp. 9<sup>s</sup> Rge. 28<sup>w</sup> Co. Sheridan State Ko  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3876-3941 Initial Str Wt./Lbs. 57000 Unseated Str Wt./Lbs. 66000  
 Anchor Length 65 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 25000  
 Top Packer Depth 3871 Tool Weight 2200  
 Bottom Packer Depth 3876 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3941 Wt. Pipe Run - Drill Collar Run 120  
 Mud Wt. 9.3 LCM - Vis. 50 WL \_\_\_\_\_ Drill Pipe Size 4 1/2 XH Ft. Run 3752  
 Blow Description IFP - STRONG BLOW IN 5 MIN  
FFP - STRONG BLOW IN 9 MIN  
NO BLOW ON SHUT-IN

Recovery - Total Feet 992 GIP - Ft. in DC 120 Ft. in DP \_\_\_\_\_  
 Rec. 248 Feet of MW w/show of oil %gas \_\_\_\_\_ %oil 75 %water 25 %mud \_\_\_\_\_  
 Rec. 744 Feet of WATER %gas \_\_\_\_\_ %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 128 °F Gravity - °API D @ - °F Corrected Gravity - °API \_\_\_\_\_  
 RW .13 @ 77 °F Chlorides 47000 ppm Recovery \_\_\_\_\_ Chlorides 2400 ppm System \_\_\_\_\_

(A) Initial Hydrostatic Mud	AK-1	Alpine	1908	PSI	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure			62	PSI	(depth)	3881	Jars		
(C) First Final Flow Pressure			311	PSI	Recorder No.	3913	Safety Jt.		
(D) Initial Shut-In Pressure			1231	PSI	(depth)	13534	Circ Sub		
(E) Second Initial Flow Pressure			322	PSI	Recorder No.	-	Sampler		
(F) Second Final Flow Pressure			486	PSI	(depth)	-	Straddle		
(G) Final Shut-In Pressure			1229	PSI	Initial Opening	30	Ext. Packer		
(Q) Final Hydrostatic Mud			1887	PSI	Initial Shut-In	45	Shale Packer		
					Final Flow	30	Ruined Packer		
					Final Shut-In	60	Mileage	<u>24162 RT 120</u>	
					T-On Location	0030	Sub Total:		
					T-Started	0144	Std. By		
					T-Open	0410	Acc. Chg:		
					T-Pulled	0655	Other:		
					T-Out	0917	Total:		<u>\$1220</u>

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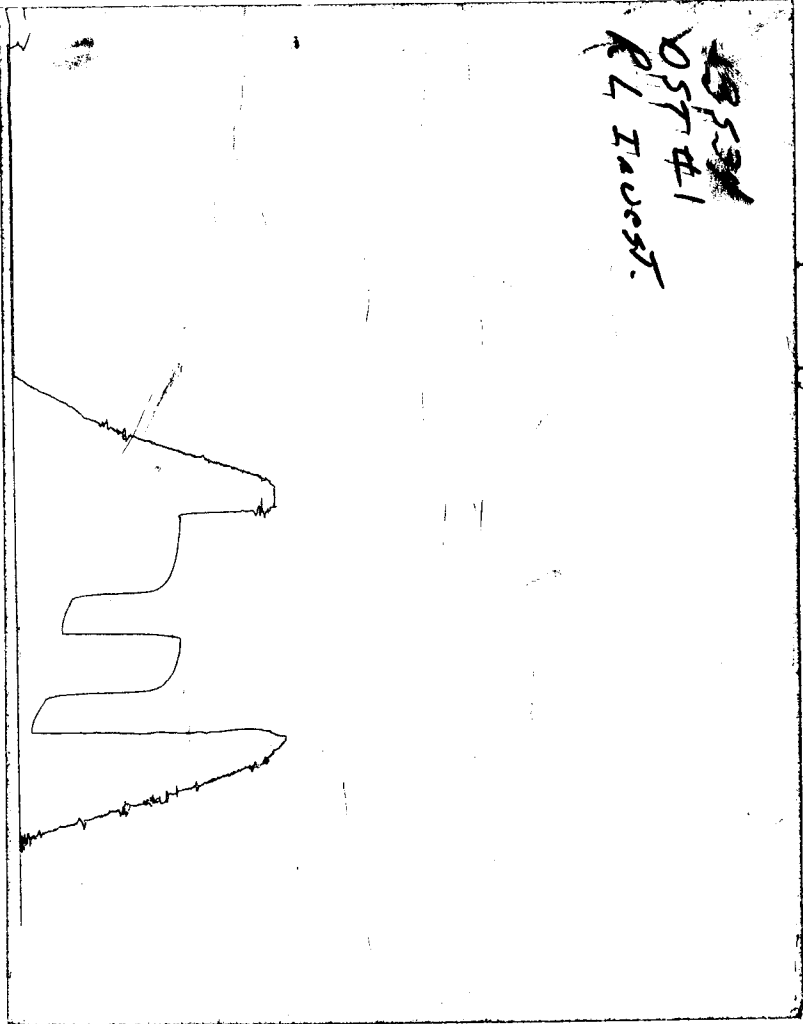
Approved By Patricia Deenihan

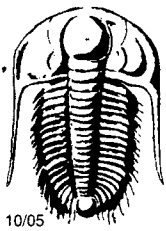
Our Representative RAY SCHWAGER Mark  
900

**CHART PAGE**

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

~~13534~~  
DST #1  
R L TAVERT.





# TRILOBITE TESTING INC.

28170

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. CLARK #1 Test No. 2 Date 5-5-07  
 Company R. L. Investment LLC Zone Tested LKC 'B'  
 Address 217 ST. PETER STREET MORLAND, Ks 67650 Elevation 2825 KB 2820 GL  
 Co. Rep / Geo. PAT Decahan Rig WW rig #  
 Location: Sec. 18 Twp. 9<sup>s</sup> Rge. 28<sup>w</sup> Co. Sheeidan State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3956-3975 Initial Str Wt./Lbs. 56000 Unseated Str Wt./Lbs. 56000  
 Anchor Length 19 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000  
 Top Packer Depth 3951 Tool Weight 2200  
 Bottom Packer Depth 3956 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3975 Wt. Pipe Run - Drill Collar Run 120  
 Mud Wt. 9.2 LCM - Vis. 56 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3839  
 Blow Description IFP - VERY WEAK SURFACE BLOW, DIED IN 5 MIN  
FFP - SURGE, THEN DEAD THRU-OUT

Recovery - Total Feet 1 GIP - Ft. in DC 1 Ft. in DP -  
 Rec. 1 Feet of oil %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %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 115 °F Gravity - °API D @ - °F Corrected Gravity \_\_\_\_\_ °API  
 RW - @ - °F Chlorides - ppm Recovery \_\_\_\_\_ Chlorides 2400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1949</u> PSI	<u>6253</u>	<input checked="" type="checkbox"/> <u>1100</u>
(B) First Initial Flow Pressure		<u>19</u> PSI	(depth) <u>3957</u>	Jars _____
(C) First Final Flow Pressure		<u>21</u> PSI	Recorder No. <u>13534</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>130</u> PSI	(depth) <u>3972</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>19</u> PSI	Recorder No. <u>-</u>	Sampler _____
(F) Second Final Flow Pressure		<u>20</u> PSI	(depth) <u>-</u>	Straddle _____
(G) Final Shut-In Pressure		PSI	<b>Initial Opening</b> <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1937</u> PSI	Initial Shut-In <u>15</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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.

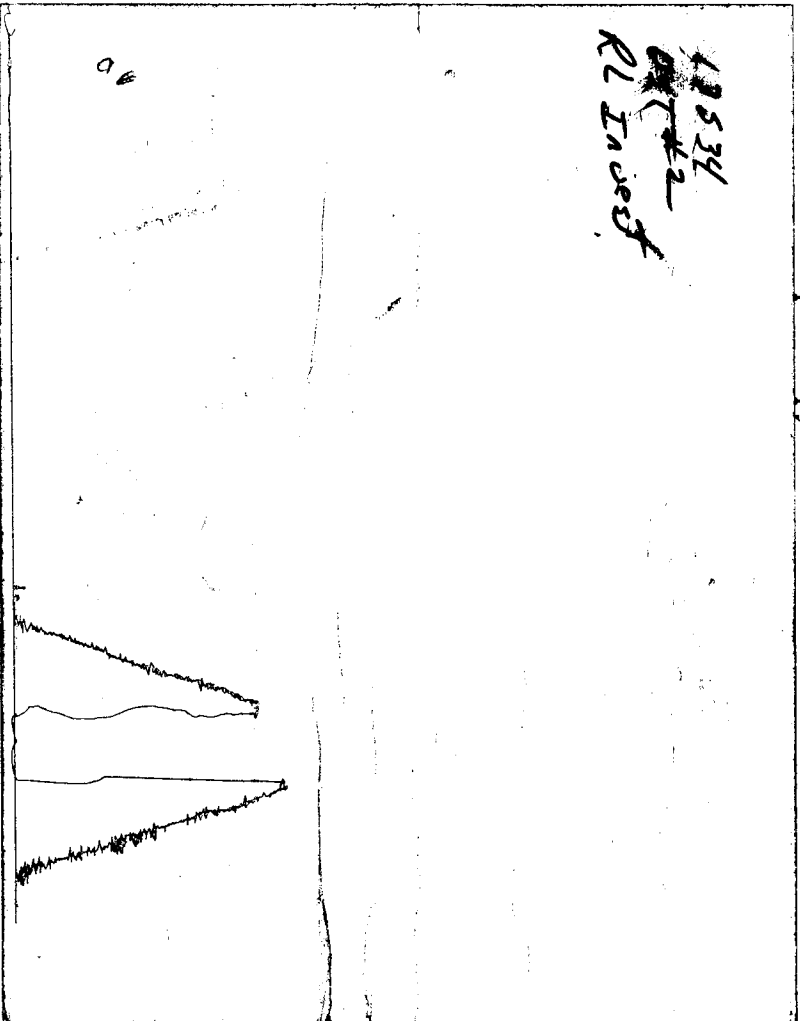
Approved By \_\_\_\_\_

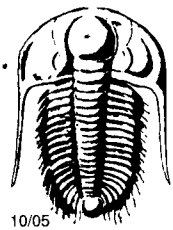
Our Representative RAY SCHWAGER Thank you

Final Flow 15 Ruined Packer \_\_\_\_\_  
 Final Shut-In - Mileage 96 120  
**T-On Location** 1645 Sub Total: \_\_\_\_\_  
 T-Started 1711 Std. By \_\_\_\_\_  
 T-Open 1900 Acc. Chg: \_\_\_\_\_  
 T-Pulled 1945 Other: \_\_\_\_\_  
 T-Out 2125 Total: \$1220

**CHART PAGE**

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





# TRILOBITE TESTING INC.

28171

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. CLARK #1 Test No. 3 Date 5-6-07  
 Company R.L. Investment LLC Zone Tested LKC B-F  
 Address 217 ST. PETER STREET MARIETTA, MO 67650 Elevation 2825 KB 2820 GL  
 Co. Rep / Geo. PAT DEENIHAN Rig WW RIG 4  
 Location: Sec. 18 Twp. 9<sup>s</sup> Rge. 28<sup>w</sup> Co. SHERIDAN State KO  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3954-4020 Initial Str Wt./Lbs. 59000 Unseated Str Wt./Lbs. 63000  
 Anchor Length 66 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 70000  
 Top Packer Depth 3949 Tool Weight 2200  
 Bottom Packer Depth 3954 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 4020 Wt. Pipe Run - Drill Collar Run 120  
 Mud Wt. 9.2 LCM - Vis. 56 WL 6.8 Drill Pipe Size 4 1/2 x H Ft. Run 3843  
 Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4" BLOW  
FFP - WEAK TO A FAIR BLOW 1/4" TO 3 1/2" BLOW  
NO BLOW ON SHUT-IN

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>170</u> Feet of <u>SOC WM</u>	<u>-</u>	%gas <u>2</u> %oil <u>15</u> %water <u>83</u> %mud	
Rec. <u>120</u> Feet of <u>SOC MW</u>		%gas <u>2</u> %oil <u>68</u> %water <u>30</u> %mud	
Rec. <u>300</u> Feet of <u>WATER</u>		%gas %oil %water %mud	
Rec. _____ Feet of _____		%gas %oil %water %mud	
Rec. _____ Feet of _____		%gas %oil %water %mud	

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .14 @ 80 °F Chlorides 46000 ppm Recovery \_\_\_\_\_ Chlorides 2400 ppm System

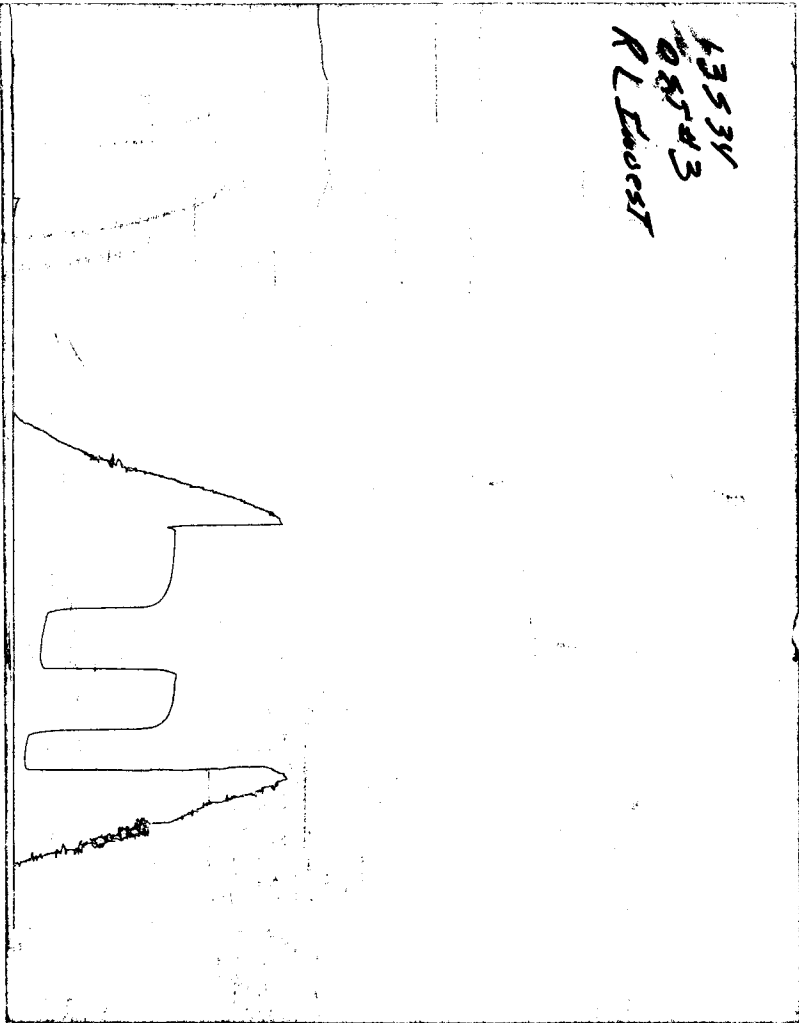
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1947</u> PSI	<u>1947</u> PSI	<u>6753</u>	<input checked="" type="checkbox"/> <u>1200</u>
(B) First Initial Flow Pressure	<u>46</u> PSI	<u>46</u> PSI	<u>3959</u>	Jars _____
(C) First Final Flow Pressure	<u>184</u> PSI	<u>184</u> PSI	<u>13534</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1210</u> PSI	<u>1210</u> PSI	<u>3992</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>185</u> PSI	<u>185</u> PSI	<u>-</u>	Sampler _____
(F) Second Final Flow Pressure	<u>314</u> PSI	<u>314</u> PSI	<u>-</u>	Straddle _____
(G) Final Shut-In Pressure	<u>1202</u> PSI	<u>1202</u> PSI	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1936</u> PSI	<u>1936</u> PSI	<u>45</u>	Shale Packer _____
		Final Flow	<u>45</u>	Ruined Packer _____
		Final Shut-In	<u>60</u>	Mileage <u>✓ 96</u> <u>120</u>
		T-On Location	<u>0610</u>	Sub Total: _____
		T-Started	<u>0638</u>	Std. By _____
		T-Open	<u>0840</u>	Acc. Chg: _____
		T-Pulled	<u>1140</u>	Other: _____
		T-Out	<u>1345</u>	Total: <u>1320</u>

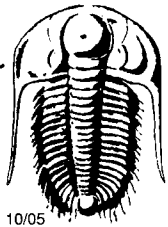
Approved By Pat Deenihan  
 Our Representative Ray Schwager Thank you

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**CHART PAGE**

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





# TRILOBITE TESTING INC.

28172

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. CLARK #1 Test No. 4 Date 5-7-07  
 Company R.L. Investment LLC Zone Tested LKC I-J  
 Address 217 ST. PETER STREET MORLAND, Ks 67650 Elevation 2825 KB 2820 GL  
 Co. Rep / Geo. PAT Deenihan Rig WW rig 4  
 Location: Sec. 18 Twp. 9<sup>s</sup> Rge. 28<sup>w</sup> Co. Sheridan State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4080-4118 Initial Str Wt./Lbs. 60000 Unseated Str Wt/Lbs. 62000  
 Anchor Length 38 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 80000  
 Top Packer Depth 4075 Tool Weight 2200  
 Bottom Packer Depth 4080 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 4118 Wt. Pipe Run - Drill Collar Run 120  
 Mud Wt. 9.2 LCM 1# Vis. 52 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3969  
 Blow Description IFP- packer failure  
IFP-

Recovery - Total Feet 420 GIP - Ft. in DC 120 Ft. in DP 280  
 Rec. 420 Feet of Mud %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %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 \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 3300 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud				<u>6753</u>	<input checked="" type="checkbox"/> <u>1000</u>
(B) First Initial Flow Pressure				<u>4085</u>	Jars _____
(C) First Final Flow Pressure				<u>13534</u>	Safety Jt. _____
(D) Initial Shut-In Pressure				<u>4115</u>	Circ Sub _____
(E) Second Initial Flow Pressure				<u>-</u>	Sampler _____
(F) Second Final Flow Pressure				<u>-</u>	Straddle _____
(G) Final Shut-In Pressure				<u>-</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud				<u>-</u>	Shale Packer _____

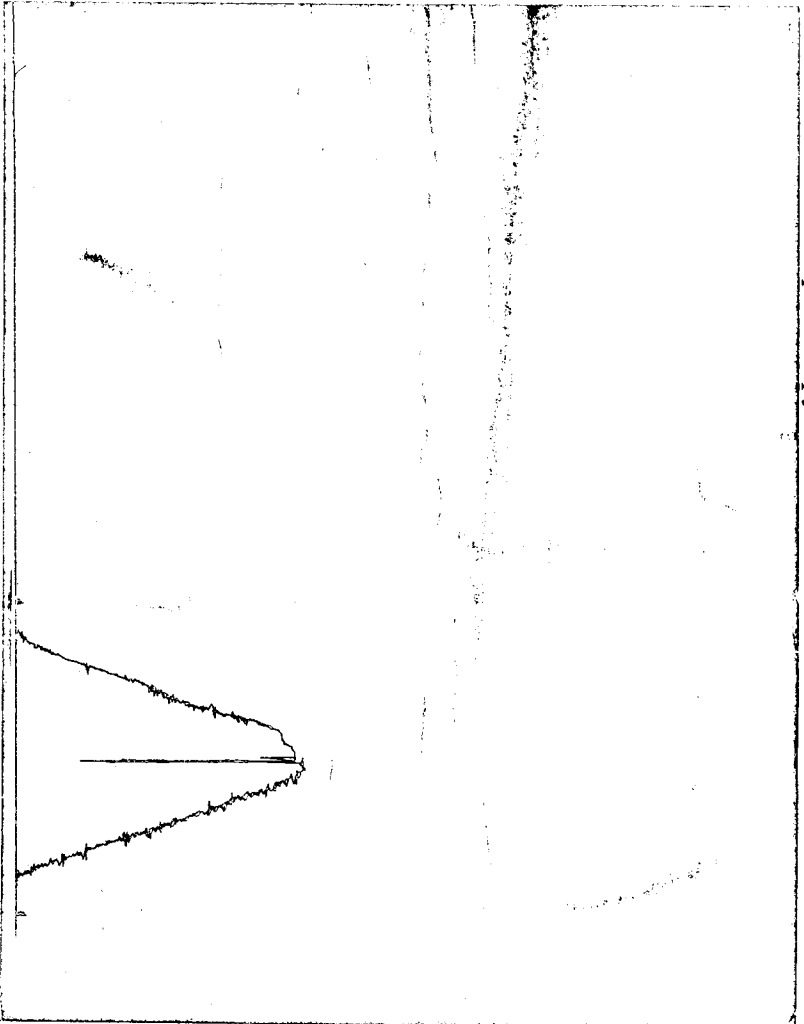
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

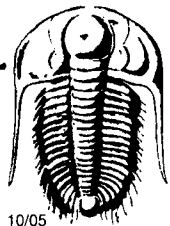
Approved By \_\_\_\_\_  
 Our Representative Ray Schwager Thank you

Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
 T-On Location 0330  
 T-Started 0352  
 T-Open 0605  
 T-Pulled 0610  
 T-Out 0802  
 Ruined Packer \_\_\_\_\_  
 Mileage 96 120  
 Sub Total: \_\_\_\_\_  
 Std. By \_\_\_\_\_  
 Acc. Chg: \_\_\_\_\_  
 Other: \$1120  
 Total: \_\_\_\_\_

**CHART PAGE**

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





# TRILOBITE TESTING INC.

28173

P.O. Box 362 • Hays, Kansas 67601

10/05

## Test Ticket

Well Name & No. CLARK #1 Test No. 5 Date 5-7-07  
 Company R. L. Investment LLC Zone Tested LKC H-J  
 Address 217 ST. PETER STREET Morland, Ks 67650 Elevation 2825 KB 2820 GL  
 Co. Rep / Geo. PAT Deenihan Rig WWrig 4  
 Location: Sec. 18 Twp. 9<sup>s</sup> Rge. 28<sup>w</sup> Co. Sheridan State Ks  
 Comment: \_\_\_\_\_ Release date / time: 5-8 8:45 AM

Interval Tested 4054-4118 Initial Str Wt./Lbs. 60000 Unseated Str Wt./Lbs. 60000  
 Anchor Length 64 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 90000  
 Top Packer Depth 4049 Tool Weight 2200  
 Bottom Packer Depth 4054 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 4118 Wt. Pipe Run - Drill Collar Run 120  
 Mud Wt. 9.2 LCM 1# Vis. 52 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3937  
 Blow Description IFP- WEAK Blow thru-out 1/4" to 1/2" Blow  
FFP- NO Blow 1st 10 min, Then surface Blow thru-out

Recovery - Total Feet 65 GIP - Ft. in DC 65 Ft. in DP -  
 Rec. 65 Feet of MW %gas \_\_\_\_\_ %oil 60 %water 40 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of w/show of oil in Tool %gas \_\_\_\_\_ %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 125 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .18 @ 75 °F Chlorides 38000 ppm Recovery \_\_\_\_\_ Chlorides 3300 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1989	PSI	Recorder No.	6753	Test	✓	1200
(B) First Initial Flow Pressure			40	PSI	(depth)	4058	Jars		
(C) First Final Flow Pressure			52	PSI	Recorder No.	13534	Safety Jt.		
(D) Initial Shut-In Pressure			1249	PSI	(depth)	4090	Circ Sub		
(E) Second Initial Flow Pressure			60	PSI	Recorder No.	-	Sampler		
(F) Second Final Flow Pressure			70	PSI	(depth)	-	Straddle		
(G) Final Shut-In Pressure			1208	PSI	Initial Opening	30	Ext. Packer		
(Q) Final Hydrostatic Mud			1940	PSI	Initial Shut-In	45	Shale Packer		
					Final Flow	30	Ruined Packer		
					Final Shut-In	45	Mileage	✓ 96	120
					T-On Location	0800	Sub Total:		
					T-Started	0807	Std. By		
					T-Open	0950	Acc. Chg:		\$ 1320
					T-Pulled	1220	Other:		
					T-Out	1406	Total:		

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Approved By Patrick Deenihan  
 Our Representative Ray Schwager Thank you

**CHART PAGE**

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

