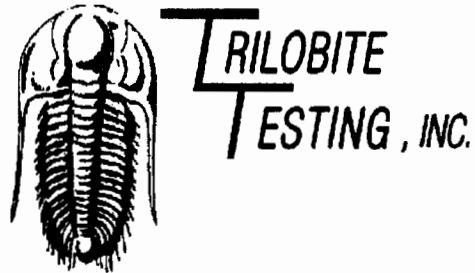


15-065-23244

10-8s-23w



## DRILL STEM TEST REPORT

Prepared For: **Pioneer**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Todd Morgenstern

**10 8S 23W Graham KS**

### **Boxcar #1**

Start Date: 2006.12.07 @ 15:52:43

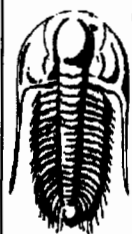
End Date: 2006.12.07 @ 20:47:11

Job Ticket #: 26141                      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

Pioneer  
 177 W Limestone Rd  
 Phillipsburg KS 67661  
 ATTN: Todd Morgenstern

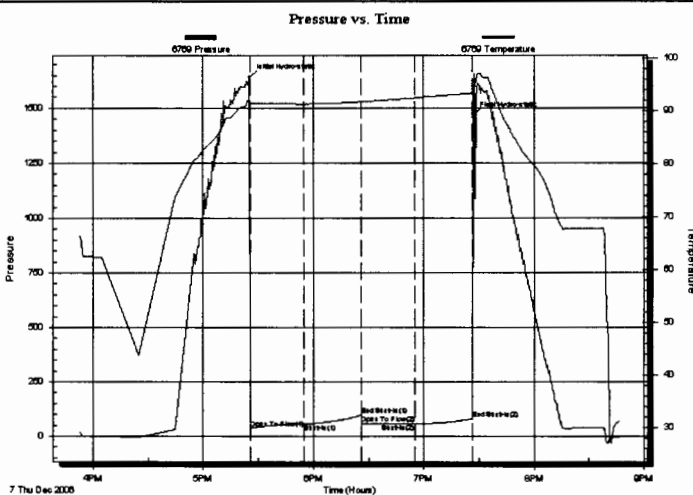
**Boxcar #1**  
**10 8S 23W Graham KS**  
 Job Ticket: 26141      **DST#: 1**  
 Test Start: 2006.12.07 @ 15:52:43

## GENERAL INFORMATION:

Formation: **LKC 35'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:25:41  
 Time Test Ended: 20:47:11  
 Interval: **3502.00 ft (KB) To 3525.00 ft (KB) (TVD)**  
 Total Depth: 3525.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 24  
 Reference Elevations: 2206.00 ft (KB)  
 2201.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6769**      **Inside**  
 Press@RunDepth: 55.75 psig @ 3507.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.12.07      End Date: 2006.12.07      Last Calib.: 2006.12.07  
 Start Time: 15:52:43      End Time: 20:47:11      Time On Btm: 2006.12.07 @ 17:25:26  
 Time Off Btm: 2006.12.07 @ 19:26:56

**TEST COMMENT:** IFP Weak blow throughout 1/2" - 3/4"  
 ISI No blow back  
 FFP No blow  
 FSI No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.76	91.95	Initial Hydro-static
1	34.67	91.48	Open To Flow (1)
30	55.97	91.32	Shut-In(1)
61	97.28	91.71	End Shut-In(1)
61	56.15	91.69	Open To Flow (2)
90	55.75	92.44	Shut-In(2)
122	80.85	93.35	End Shut-In(2)
122	1463.24	93.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661

**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26141      **DST#: 1**  
Test Start: 2006.12.07 @ 15:52:43

ATTN: Todd Morgenstern

**Tool Information**

Drill Pipe:	Length: 3172.00 ft	Diameter: 3.80 inches	Volume: 44.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3502.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.02 ft			
Tool Length:	43.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Shut In Tool	5.00			3487.00	
Hydraulic tool	5.00			3492.00	
Packer	5.00			3497.00	20.00      Bottom Of Top Packer
Packer	5.00			3502.00	
Stubb	1.00			3503.00	
Perforations	4.00			3507.00	
Recorder	0.01	6769	Inside	3507.01	
Perforations	15.00			3522.01	
Recorder	0.01	13548	Outside	3522.02	
Bullnose	3.00			3525.02	23.02      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Morgenstern

**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26141      **DST#: 1**  
Test Start: 2006.12.07 @ 15:52:43

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M	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:

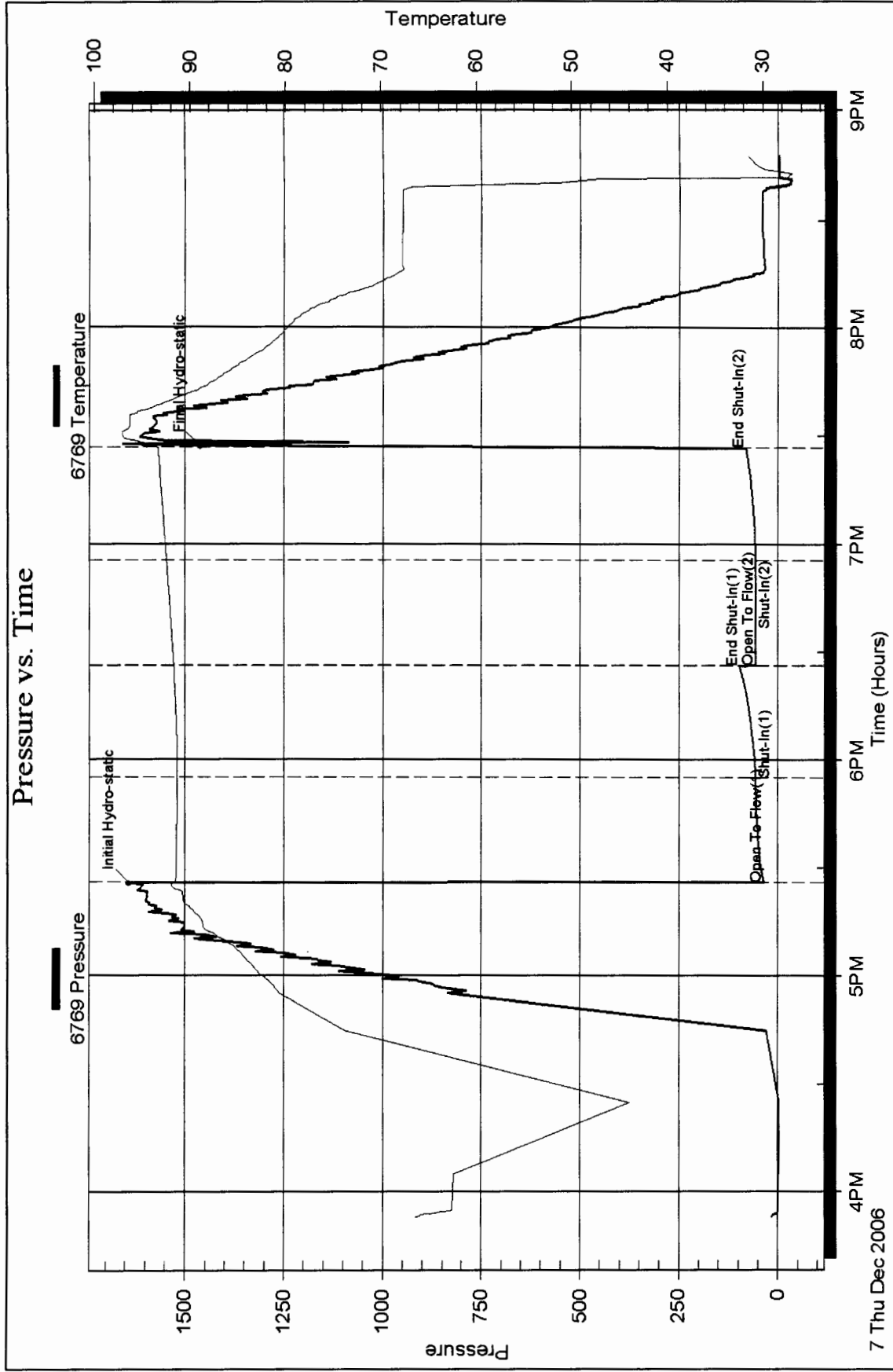
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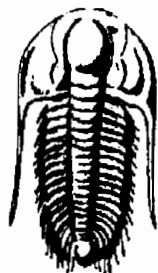
Inside Pioneer

10 8S 23W Graham KS

DST Test Number: 1

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Pioneer**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Todd Morgenstern

**10 8S 23W Graham KS**

**Boxcar #1**

Start Date: 2006.12.08 @ 04:28:34

End Date: 2006.12.08 @ 11:08:32

Job Ticket #: 26142                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Pioneer

Boxcar #1

10 8S 23W Graham KS

DST # 2

LKC 70'

2006.12.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pioneer  
 177 W Limestone Rd  
 Phillipsburg KS 67661  
 ATTN: Todd Morgenstern

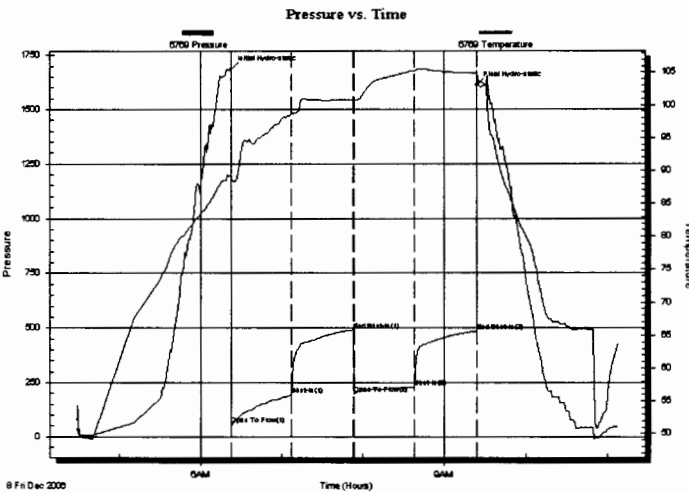
**Boxcar #1**  
**10 8S 23W Graham KS**  
 Job Ticket: 26142      **DST#: 2**  
 Test Start: 2006.12.08 @ 04:28:34

## GENERAL INFORMATION:

Formation: **LKC 70'**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 06:22:47  
 Time Test Ended: 11:08:32  
 Interval: **3528.00 ft (KB) To 3562.00 ft (KB) (TVD)**  
 Total Depth: **3525.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition:  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **24**  
 Reference Elevations: **2206.00 ft (KB)**  
    **2201.00 ft (CF)**  
    **KB to GR/CF: 5.00 ft**

**Serial #: 6769**      **Inside**  
 Press@RunDepth: **229.38 psig @ 3534.01 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2006.12.08**      End Date: **2006.12.08**  
 Start Time: **04:28:34**      End Time: **11:08:32**  
 Last Calib.: **2006.12.08**  
 Time On Btm: **2006.12.08 @ 06:22:32**  
 Time Off Btm: **2006.12.08 @ 09:24:17**

**TEST COMMENT:** IFP BOB 18 min.  
 ISI No blow back 10 min. - sur blow died 10 min.  
 FFP BOB 40 min.  
 FSI 1/4 " blow back died 22 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.08	89.24	Initial Hydro-static
1	55.11	88.39	Open To Flow (1)
45	192.27	98.59	Shut-In (1)
91	487.15	100.89	End Shut-In (1)
92	198.20	100.82	Open To Flow (2)
136	229.38	105.28	Shut-In (2)
182	484.77	104.86	End Shut-In (2)
182	1609.94	105.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCGWM 15%G 5%O 10%W 70%M	0.30
250.00	MW 85%W 15%M	1.23
35.00	SOCGWM 5%G 5%O 20%W 70%M	0.45
30.00	GW FREE OIL 5%G 5%M 90%O	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Mbrgenstern

**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26142      **DST#: 2**  
Test Start: 2006.12.08 @ 04:28:34

### Tool Information

Drill Pipe:	Length: 3201.00 ft	Diameter: 3.80 inches	Volume: 44.90 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 46.44 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3528.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.02 ft				
Tool Length:	54.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3513.00	
Hydraulic tool	5.00			3518.00	
Packer	5.00			3523.00	20.00      Bottom Of Top Packer
Packer	5.00			3528.00	
Stubb	1.00			3529.00	
Perforations	5.00			3534.00	
Recorder	0.01	6769	Inside	3534.01	
Perforations	25.00			3559.01	
Recorder	0.01	13548	Outside	3559.02	
Bullnose	3.00			3562.02	34.02      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.02</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer

Boxcar #1

177 W Limestone Rd  
Phillipsburg KS 67661

10 8S 23W Graham KS

Job Ticket: 26142

DST#: 2

ATTN: Todd Morgenstern

Test Start: 2006.12.08 @ 04:28:34

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCGWM 15%G 5%O 10%W 70%M	0.295
250.00	MW 85%W 15%M	1.229
35.00	SOCGWM 5%G 5%O 20%W 70%M	0.455
30.00	GW FREE OIL 5%G 5%M 90%O	0.421

Total Length: 375.00 ft      Total Volume: 2.400 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 30' GIP

Started getting sand/cutting 120' from tool

Serial #: 6769

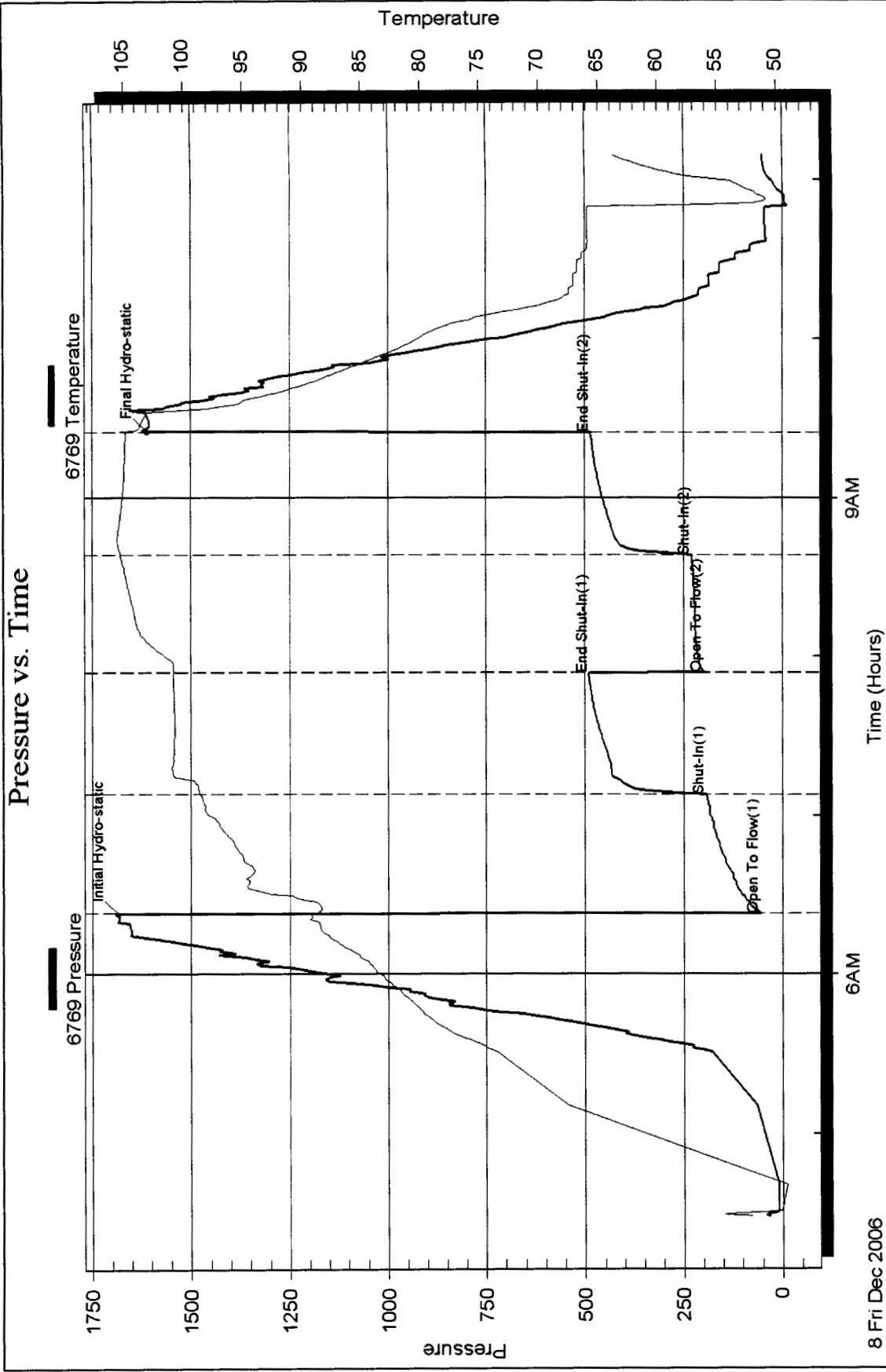
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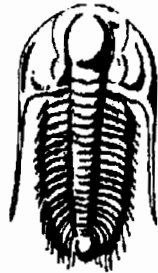
Fioneer

10 8S 23W Graham KS

DST Test Number: 2

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Pioneer**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Todd Morgenstem

**10 8S 23W Graham KS**

**Boxcar #1**

Start Date: 2006.12.08 @ 21:55:28

End Date: 2006.12.09 @ 05:53:56

Job Ticket #: 26143                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Pioneer

Boxcar #1

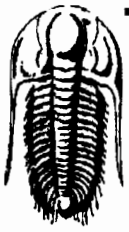
10 8S 23W Graham KS

DST # 3

LKC 180'

2006.12.08





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Morgenstern

**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26143      **DST#: 3**  
Test Start: 2006.12.08 @ 21:55:28

**Tool Information**

Drill Pipe:	Length: 3324.00 ft	Diameter: 3.80 inches	Volume: 46.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3630.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.02 ft			
Tool Length:	43.02 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			3615.00	
Hydraulic tool	5.00			3620.00	
Packer	5.00			3625.00	20.00      Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Perforations	4.00			3635.00	
Recorder	0.01	6769	Inside	3635.01	
Perforations	15.00			3650.01	
Recorder	0.01	13548	Outside	3650.02	
Bullnose	3.00			3653.02	23.02      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Morgenstern

**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26143      **DST#: 3**  
Test Start: 2006.12.08 @ 21:55:28

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCM 30% O, 70% M	0.295
20.00	HOCM 45% O, 55% M	0.098
10.00	GMCO 10% G, 80% O, 10% M	0.049

Total Length: 90.00 ft      Total Volume: 0.442 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 430' GIP

Serial #: 6769

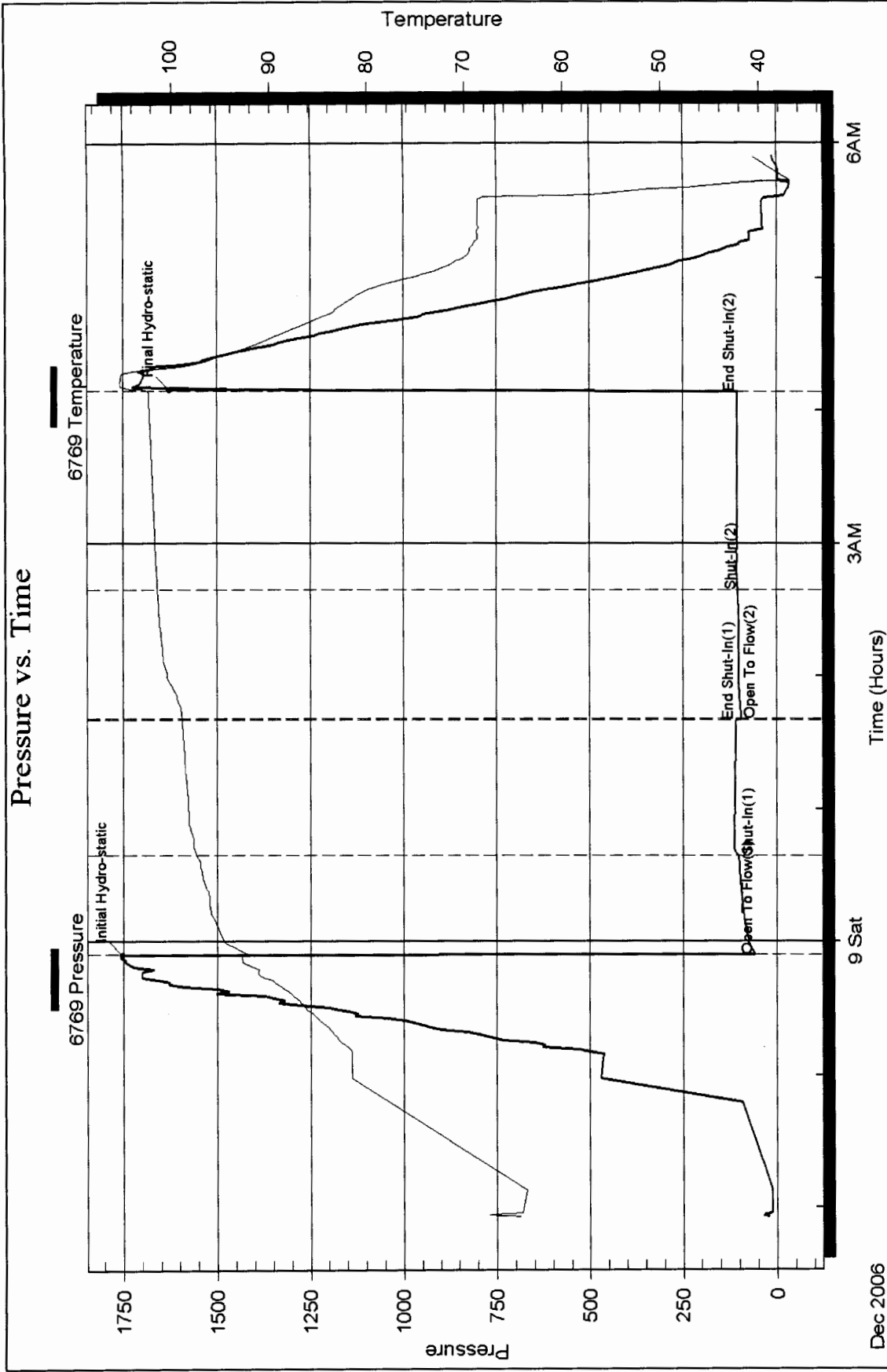
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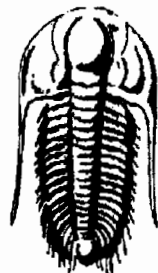
Pioneer

10 8S 23W Graham KS

DST Test Number: 3

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Pioneer**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Todd Morgenstem

**10 8S 23W Graham KS**

**Boxcar #1**

Start Date: 2006.12.09 @ 12:30:14

End Date: 2006.12.09 @ 17:36:42

Job Ticket #: 26144                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Pioneer

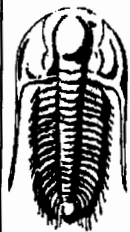
Boxcar #1

10 8S 23W Graham KS

DST # 4

LKC 200

2006.12.09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Morgenstern

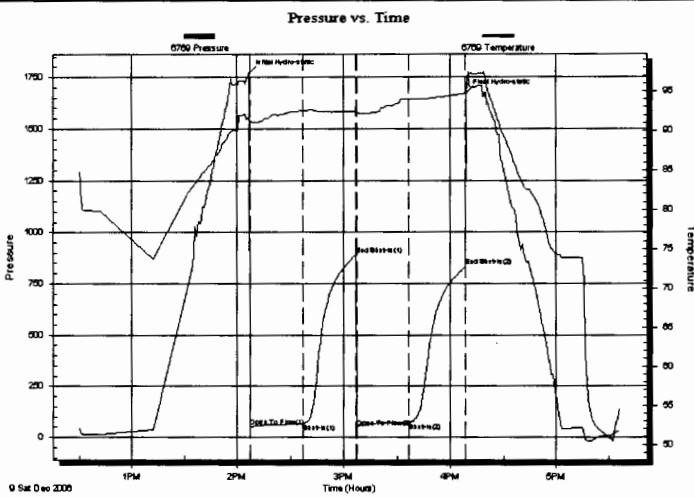
**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26144      **DST#: 4**  
Test Start: 2006.12.09 @ 12:30:14

## GENERAL INFORMATION:

Formation: **LKC 200'**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:07:12  
Time Test Ended: 17:36:42  
Interval: **3656.00 ft (KB) To 3675.00 ft (KB) (TVD)**  
Total Depth: 3675.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 24  
Reference Elevations: 2206.00 ft (KB)  
2201.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6769**      **Inside**  
Press@RunDepth: 70.98 psig @ 3657.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.12.09      End Date: 2006.12.09      Last Calib.: 2006.12.09  
Start Time: 12:30:14      End Time: 17:36:42      Time On Btm: 2006.12.09 @ 14:06:57  
Time Off Btm: 2006.12.09 @ 16:08:57

**TEST COMMENT:** IFP Weak sur blow throughout  
ISI No blow back  
FFP No blow  
FSI No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.93	91.64	Initial Hydro-static
1	49.96	91.24	Open To Flow (1)
30	64.89	92.55	Shut-In (1)
60	890.14	92.50	End Shut-In (1)
61	49.03	92.26	Open To Flow (2)
90	70.98	94.04	Shut-In (2)
122	832.14	94.72	End Shut-In (2)
122	1670.91	95.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCGM 5%G 5%O 90%M	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Morgenstern

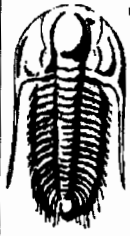
**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26144      **DST#: 4**  
Test Start: 2006.12.09 @ 12:30:14

**Tool Information**

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 48.57 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3656.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.02 ft				
Tool Length:	39.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3641.00	
Hydraulic tool	5.00			3646.00	
Packer	5.00			3651.00	20.00      Bottom Of Top Packer
Packer	5.00			3656.00	
Stubb	1.00			3657.00	
Recorder	0.01	6769	Inside	3657.01	
Perforations	15.00			3672.01	
Recorder	0.01	13548	Outside	3672.02	
Bullnose	3.00			3675.02	19.02      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>39.02</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Todd Morgenstern

**Boxcar #1**  
**10 8S 23W Graham KS**  
Job Ticket: 26144      **DST#: 4**  
Test Start: 2006.12.09 @ 12:30:14

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCGM 5%G 5%O 90%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 170' GIP

Serial #: 6769

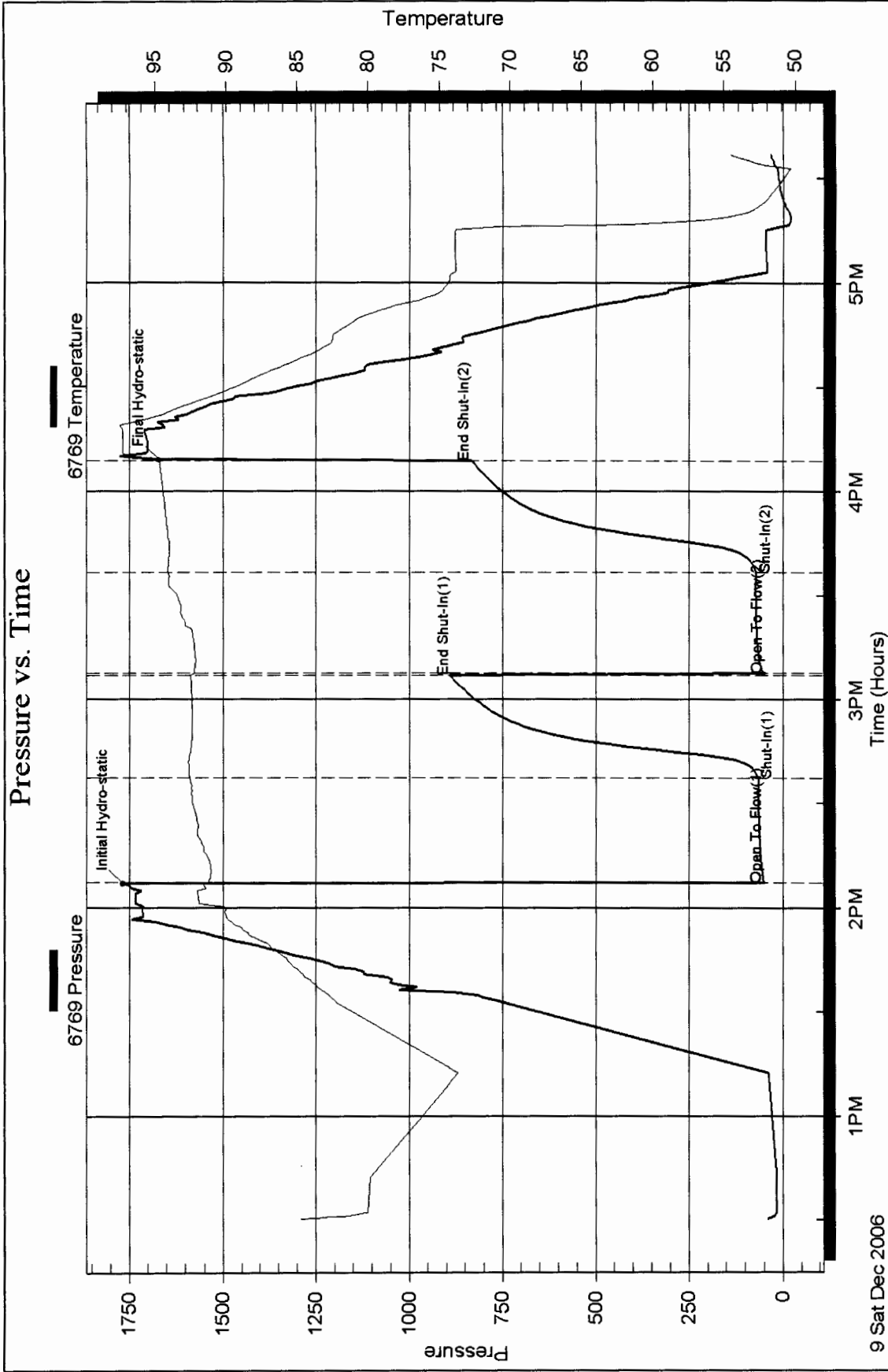
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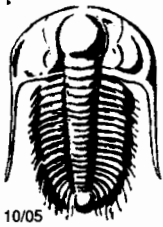
Pioneer

10 8S 23W Graham KS

DST Test Number: 4

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26141

9627

## Test Ticket

Well Name & No. Borax #1 Test No. 1 Date 12-7-06  
 Company Pioneer Zone Tested LKC 35'  
 Address 177 W. Limestone Rd. Phillipburg, Ky 67661 Elevation 2206 KB 2201 GL  
 Co. Rep / Geo. Todd Morgenstern Rig Shields  
 Location: Sec. 10 Twp. 8<sup>s</sup> Rge. 23<sup>m</sup> Co. Graham State Ky  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3502-3525 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 45,000  
 Anchor Length 23' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3497 Tool Weight 2500  
 Bottom Packer Depth 3502 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3525 Wt. Pipe Run 314 Drill Collar Run \_\_\_\_\_  
 Mud Wt. 8.7 LCM \_\_\_\_\_ Vis. S2 WL 6.4 Drill Pipe Size 4 1/2" RH Ft. Run 3172  
 Blow Description IFP - weak blow throughout 1/2 - 3/4  
ISI - no blow back  
AFP - no blow  
FSI - no blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>1</u>	<u>—</u>	<u>—</u>	<u>1</u>
Rec. _____	Feet of <u>mud</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>93</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F _____	Chlorides _____ ppm	Recovery _____ Chlorides <u>1200</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1610</u>	PSI	<u>6769</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>35</u>	PSI	(depth) <u>3507</u>	Jars _____
(C) First Final Flow Pressure	<u>56</u>	PSI	Recorder No. <u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>97</u>	PSI	(depth) <u>3522</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>56</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>56</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>81</u>	PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1572</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>30</u>	Mileage <u>✓ 160 = 128*</u>
			<b>T-On Location</b> <u>1357</u>	Sub Total: <u>1260</u>
			T-Started <u>1552</u>	Std. By _____
			T-Open <u>1725</u>	Acc. Chg: _____
			T-Pulled <u>1925</u>	Other: _____
			T-Out <u>2046</u>	Total: _____

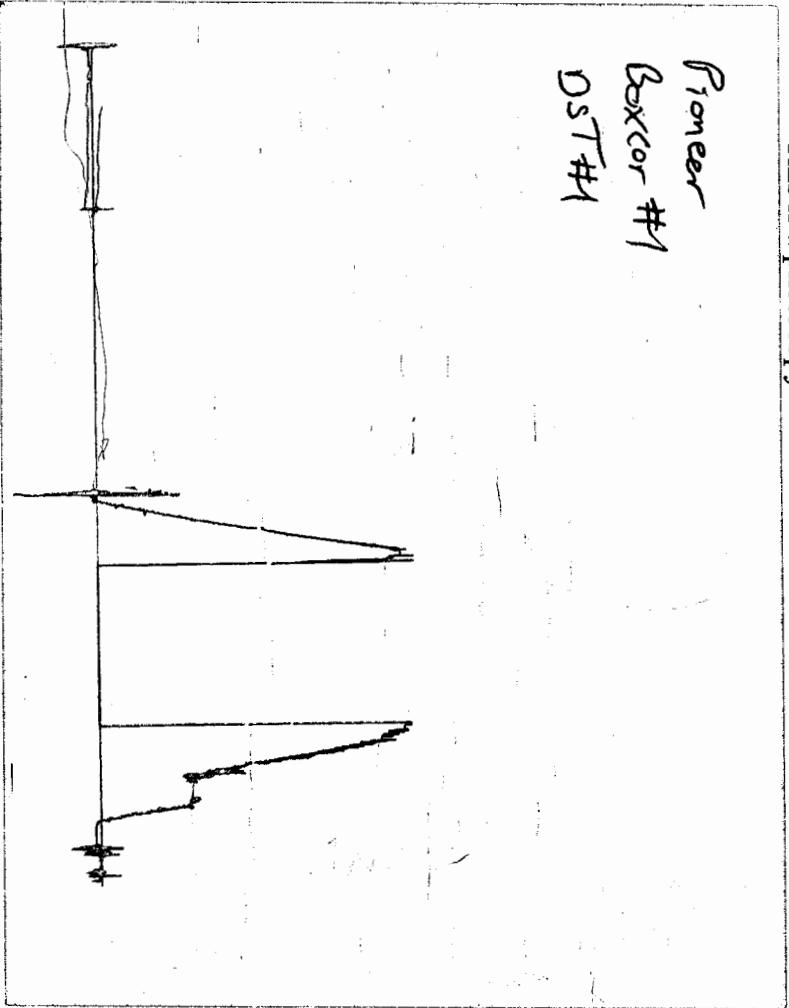
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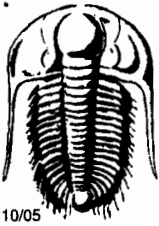
Approved By \_\_\_\_\_  
 Our Representative Brian Fairbank (Thub)

**CHART PAGE**

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

Pioneer  
Boxcar #1  
DST #1





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26142

## Test Ticket

Well Name & No. Baxcar #1 Test No. 2 Date 12-8-06  
 Company Pioneer Zone Tested LKC 70'  
 Address 177 W. Limestone Rd Phillipsburg, Mo 67661 Elevation 2206 KB 2201 GL  
 Co. Rep / Geo. Todd Morgenstern Rig Shield  
 Location: Sec. 10 Twp. 8<sup>s</sup> Rge. 23<sup>w</sup> Co. Graham State Mo  
 Comment: Started getting sand/cuttings 120' from tool Release date / time: \_\_\_\_\_

Interval Tested 3528 - 3562 Initial Str Wt./Lbs. 44,000 Unseated Str Wt/Lbs. 47,000  
 Anchor Length 34 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 68,000  
 Top Packer Depth 3523 Tool Weight 2500  
 Bottom Packer Depth 3528 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3562 Wt. Pipe Run 314 Drill Collar Run -  
 Mud Wt. 8.7 LCM - Vis. 52 WL 6.4 Drill Pipe Size 4 1/2 FH Ft. Run 3201  
 Blow Description IFP-BOB 16 min

ISI - no blow back 10 min - sur blow back died 10 min

FPF-BOB 40 min

FSI - 1/4" blow back died 22 min

Recovery - Total Feet 375 GIP 30 Ft. in DC 314 Ft. in DP 61  
 Rec. 30 Feet of GM Free oil 5 %gas 90 %oil %water 5 %mud  
 Rec. 35 Feet of SOC GWM 5 %gas 5 %oil 20 %water 70 %mud  
 Rec. 250 Feet of MW %gas %oil 85 %water 15 %mud  
 Rec. 60 Feet of SOC GWM 15 %gas 5 %oil 10 %water 70 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 105 °F Gravity 46 32 °API D @ 40 °F Corrected Gravity 34 °API  
 RW 1225 @ 46 °F Chlorides 46,000 ppm Recovery \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	6769	Test	✓	1100
(B) First Initial Flow Pressure		1655 PSI	(depth)	3534	Jars		
(C) First Final Flow Pressure		55 PSI	Recorder No.	13548	Safety Jt.		
(D) Initial Shut-In Pressure		192 PSI	(depth)	3559	Circ Sub		
(E) Second Initial Flow Pressure		487 PSI	Recorder No.		Sampler		
(F) Second Final Flow Pressure		198 PSI	(depth)		Straddle		
(G) Final Shut-In Pressure		229 PSI	Initial Opening	45	Ext. Packer		
(Q) Final Hydrostatic Mud		485 PSI	Initial Shut-In	45	Shale Packer		
		1604 PSI	Final Flow	45	Ruined Packer		
			Final Shut-In	45	Mileage	✓	1100 - R

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Approved By Admin R. Walker  
 Our Representative Bryan Fairbank (Thanks)

T-On Location 0337 Sub Total: 1260  
 T-Started 0623 0428 Std. By \_\_\_\_\_  
 T-Open 0623 Acc. Chg: \_\_\_\_\_  
 T-Pulled 0923 Other: \_\_\_\_\_  
 T-Out 1108 Total: \_\_\_\_\_

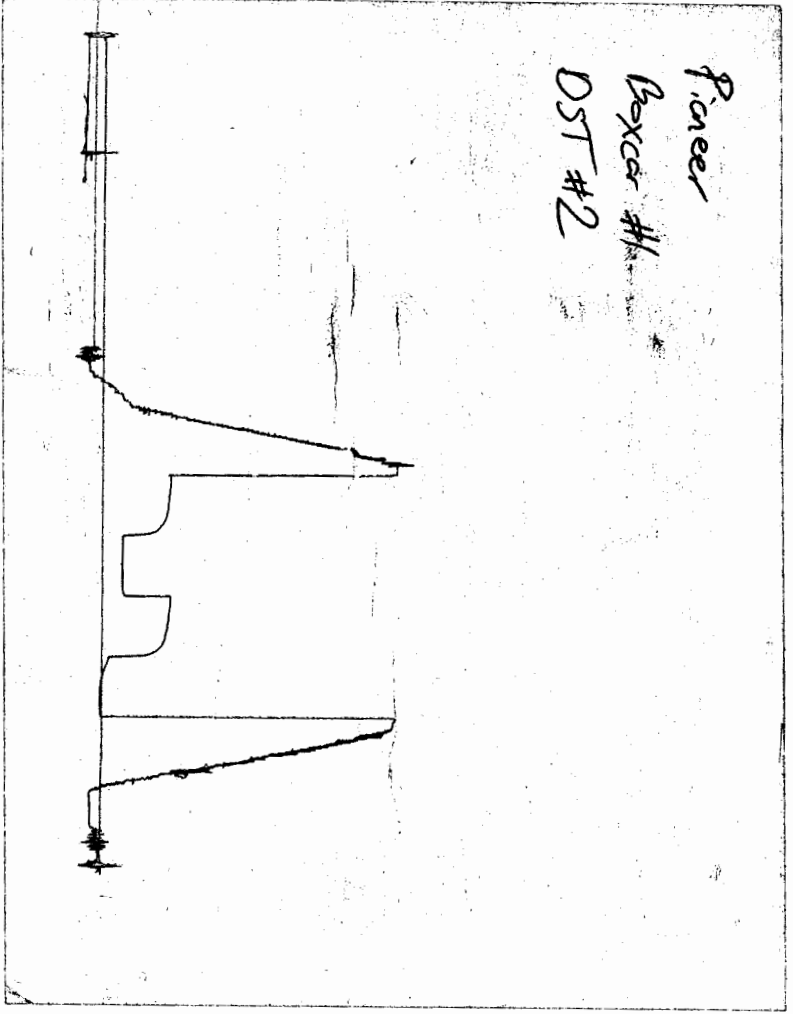
**CHART PAGE**

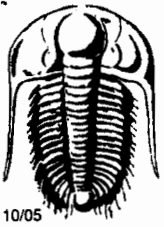
This is a photocopy of the actual AK-1 recorder chart.

Pieces

Boxes #1

DST #2





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26143

## Test Ticket

Well Name & No. Boxcar #1 Test No. 3 Date 12-8-06  
 Company Pioneer Zone Tested LKC 180'  
 Address 177 W. Limestone Rd. Phillipsburg, Ks 67661 Elevation 2206 KB 2201 GL  
 Co. Rep / Geo. Todd Morgenstern Rig Shields  
 Location: Sec. 10 Twp. 8<sup>s</sup> Rge. 23<sup>w</sup> Co. Graham State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3630 - 3653 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 46,000  
 Anchor Length 23 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3625 Tool Weight 2500  
 Bottom Packer Depth 3630 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3653 Wt. Pipe Run 314 Drill Collar Run -  
 Mud Wt. 9.2 LCM \_\_\_\_\_ Vis. SS WL 8.0 Drill Pipe Size 4 1/2 FH Ft. Run 3324

Blow Description IFP - BOB 10 min  
ISI - no blow back  
FFP - weak to good blow sur - 7"  
FSI - no blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>90</u>	<u>430</u>	<u>90</u>	<u>-</u>
Rec. <u>10</u>	Feet of <u>G.MCO</u>	<u>10</u> %gas	<u>80</u> %oil
Rec. <u>20</u>	Feet of <u>HOCM</u>	<u>45</u> %gas	<u>55</u> %oil
Rec. <u>60</u>	Feet of <u>HOCM</u>	<u>30</u> %gas	<u>70</u> %oil
Rec. _____	Feet of _____	_____ %gas	_____ %oil
Rec. _____	Feet of _____	_____ %gas	_____ %oil
BHT <u>102</u>	°F Gravity <u>30</u>	°API D @ <u>30</u>	°F Corrected Gravity <u>33</u>
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>1300</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1744</u>	PSI	<u>6769</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>59</u>	PSI	(depth) <u>3635</u>	Jars _____
(C) First Final Flow Pressure	<u>61</u>	PSI	Recorder No. <u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>109</u>	PSI	(depth) <u>3650</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>94</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>102</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>105</u>	PSI	Initial Opening <u>45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1701</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>90</u>	Mileage <u>✓ 160</u>

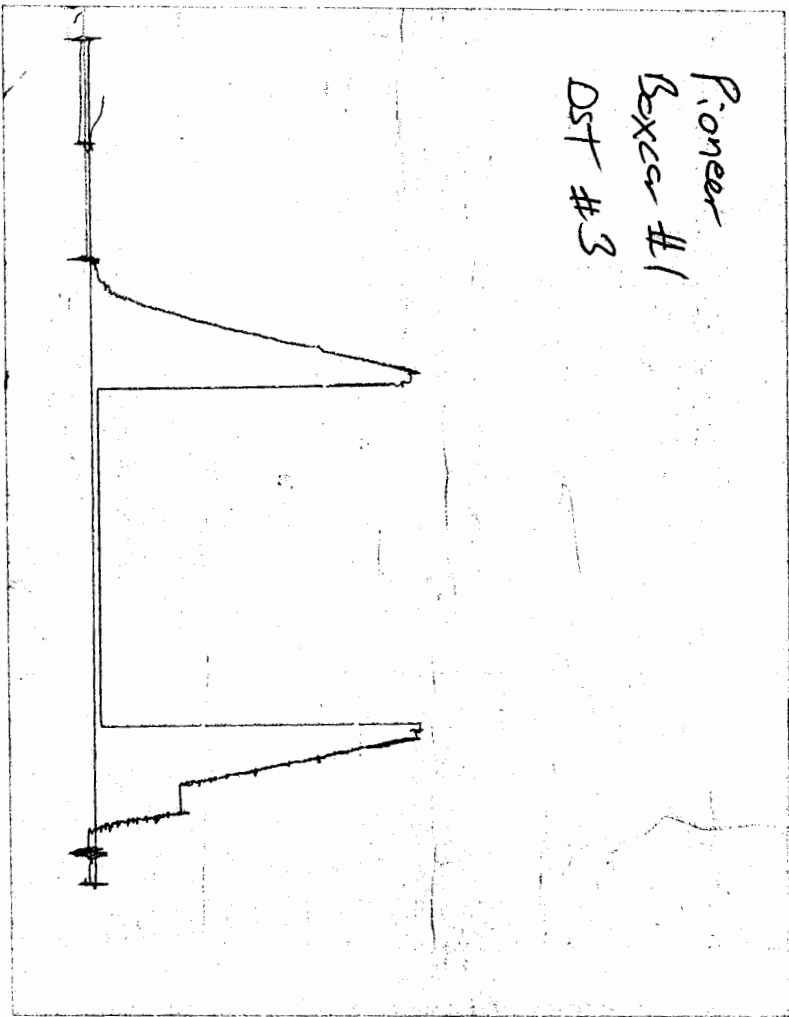
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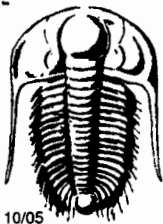
Approved By Todd E. Morgenstern  
 Our Representative Brian Farbank (thanks)

T-On Location	T-Started	T-Open	T-Pulled	T-Out	Sub Total:	Std. By	Acc. Chg:	Other:	Total:
<u>202</u>	<u>2155</u>	<u>2354</u>	<u>0409</u>	<u>0554</u>	<u>100</u>	<u>100</u>			<u>\$1360</u>

**CHART PAGE**

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





# TRILOBITE TESTING INC.

26144

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Boxcar #1 Test No. 4 Date 12-9-06  
 Company Pioneer Zone Tested LKC 200'  
 Address 177 W. Limestone Rd Phillipsburg Mo 67661 Elevation 2206 KB 2201 GL  
 Co. Rep / Geo. Todd Mergentern Rig Shield  
 Location: Sec. 10 Twp. 8<sup>o</sup> Rge. 23<sup>w</sup> Co. Graham State Mo  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3656-3675 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,000  
 Anchor Length 19 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3651 Tool Weight 2500  
 Bottom Packer Depth 3656 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3675 Wt. Pipe Run 314 Drill Collar Run -  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 53 WL 8.0 Drill Pipe Size 4 1/2 FH Ft. Run 3353  
 Blow Description IFP- weak sur blow throughout  
IST- no blow back  
FFP- no blow  
FSI- no blow back

Recovery - Total Feet 10 GIP 170 Ft. in DC 10 Ft. in DP -  
 Rec. 10 Feet of USOCGM 5 %gas 5 %oil %water 90 %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 95 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 1400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1733</u>	PSI	<u>6769</u>	<input checked="" type="checkbox"/> <u>1100</u>
(B) First Initial Flow Pressure	<u>50</u>	PSI	(depth) <u>3657</u>	Jars _____
(C) First Final Flow Pressure	<u>65</u>	PSI	Recorder No. <u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>890</u>	PSI	(depth) <u>3672</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>49</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>71</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>832</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1703</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>30</u>	Mileage <input checked="" type="checkbox"/> <u>1600</u> - <u>1</u>

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Approved By \_\_\_\_\_  
 Our Representative Boen Feabak (Alpine)

T-On Location 1158  
 T-Started 1230  
 T-Open 1408  
 T-Pulled 1608  
 T-Out 1738  
 Sub Total: 1260  
 Std. By \_\_\_\_\_  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: \_\_\_\_\_

**CHART PAGE**

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

*Pioneer*

*Boxcar #1*

*DST #4*

