

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.17 @ 23:24:01

End Date: 2006.09.18 @ 06:07:15

Job Ticket #: 25612                      DST #: 1

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

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lew ellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25612      **DST#: 1**  
Test Start: 2006.09.17 @ 23:24:01

## GENERAL INFORMATION:

Formation: **L/KC "H"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:12:15  
Time Test Ended: 06:07:15  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: Southwind #1  
Interval: **4115.00 ft (KB) To 4150.00 ft (KB) (TVD)**  
Reference Elevations: 2831.00 ft (KB)  
Total Depth: 4150.00 ft (KB) (TVD)      2821.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 10.00 ft

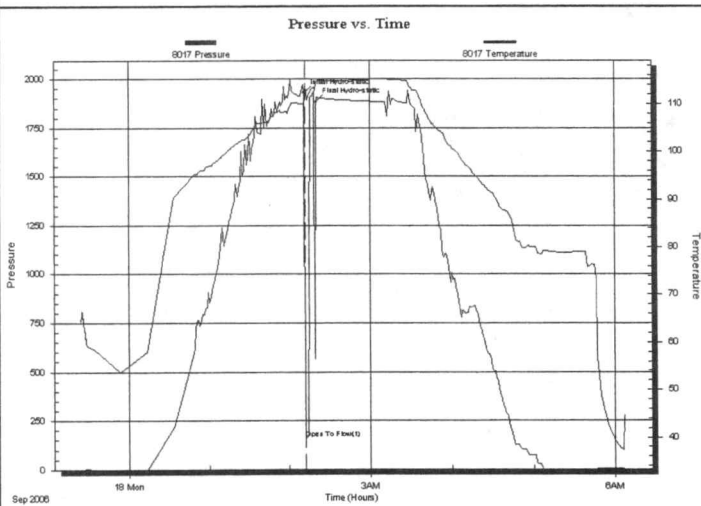
## Serial #: 8017

Inside

Press@RunDepth: psig @ 4120.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.09.17      End Date: 2006.09.18      Last Calib.: 2006.09.18  
Start Time: 23:24:01      End Time: 06:07:15      Time On Btm: 2006.09.18 @ 02:11:15  
Time Off Btm: 2006.09.18 @ 02:20:00

TEST COMMENT: IF Packer failure reset packer with 35K failed again pulled tool out of hole

ISI  
FF  
FSI



## PRESSURE SUMMARY

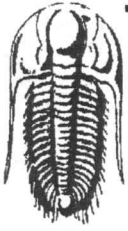
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.52	109.97	Initial Hydro-static
1	156.77	113.90	Open To Flow (1)
9	1879.95	114.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	M 100% M	3.48

## Gas Rates

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



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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Larson Operating  
562 W Hwy 4  
Olmritz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25612      **DST#: 1**  
Test Start: 2006.09.17 @ 23:24:01

**Tool Information**

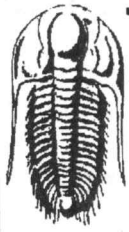
Drill Pipe:	Length: 4109.00 ft	Diameter: 3.80 inches	Volume: 57.64 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 57.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4115.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 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			4088.00	
Shut In Tool	5.00			4093.00	
Hydraulic tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	3.00			4106.00	
Packer	5.00			4111.00	28.00      Bottom Of Top Packer
Packer	4.00			4115.00	
Stubb	1.00			4116.00	
Perforations	4.00			4120.00	
Recorder	0.00	8017	Inside	4120.00	
Perforations	25.00			4145.00	
Recorder	0.00	13276	Inside	4145.00	
Bullnose	5.00			4150.00	35.00      Bottom Packers & Anchor

**Total Tool Length:      63.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Operating  
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Olmitz KS 67564-8561  
  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25612      **DST#: 1**  
Test Start: 2006.09.17 @ 23:24:01

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.93 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	M 100% M	3.479

Total Length: 248.00 ft      Total Volume: 3.479 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

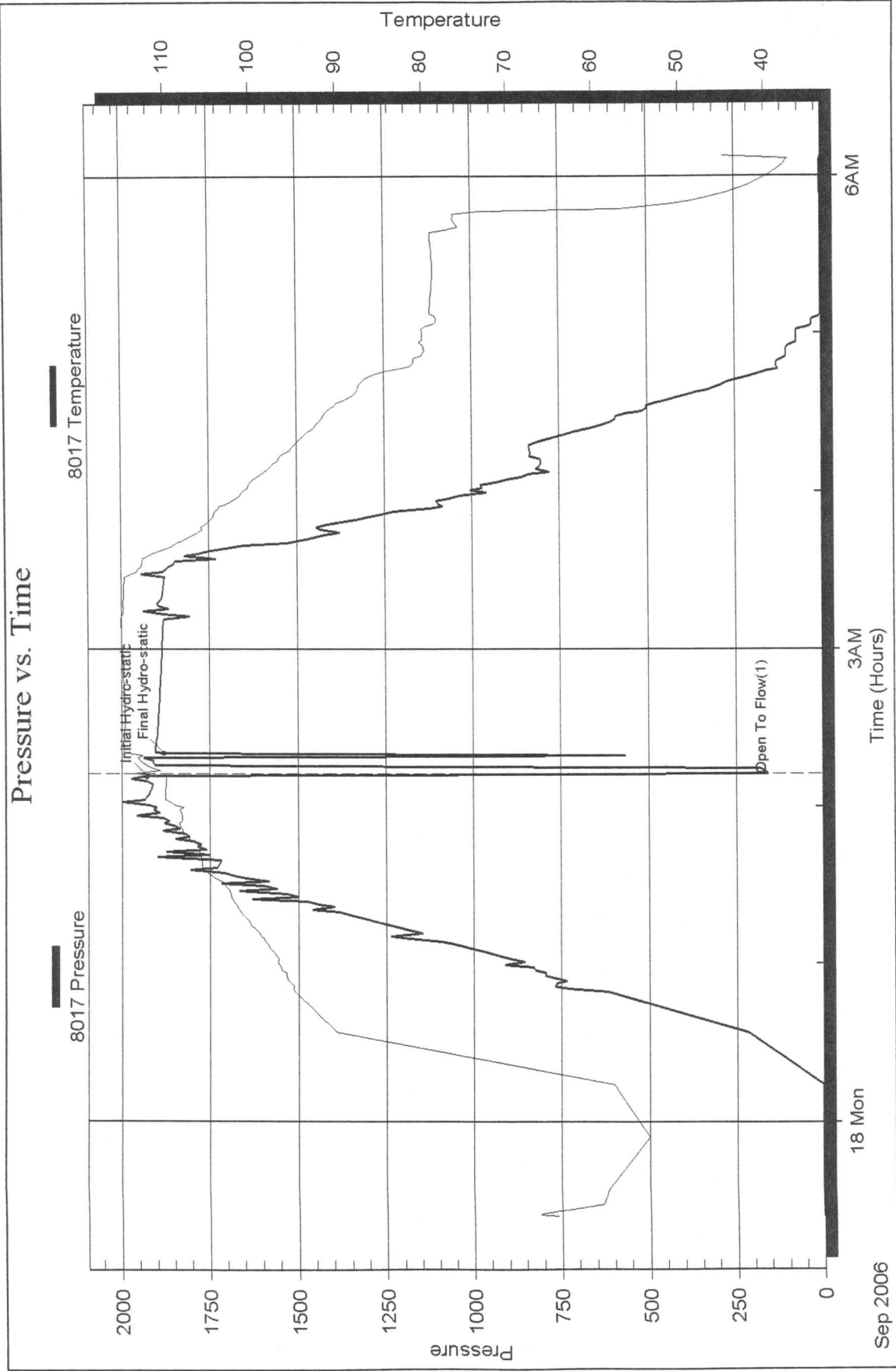
Serial #: 8017

Inside

Larson Operating

32 16S 29W Lane KS

DST Test Number: 1





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## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.18 @ 06:39:00

End Date: 2006.09.18 @ 15:10:15

Job Ticket #: 25613                      DST #: 2

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# DRILL STEM TEST REPORT

Larson Operating  
 562 W Hwy 4  
 Olmitz KS 67564-8561  
 ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
 Job Ticket: 25613      **DST#: 2**  
 Test Start: 2006.09.18 @ 06:39:00

**GENERAL INFORMATION:**

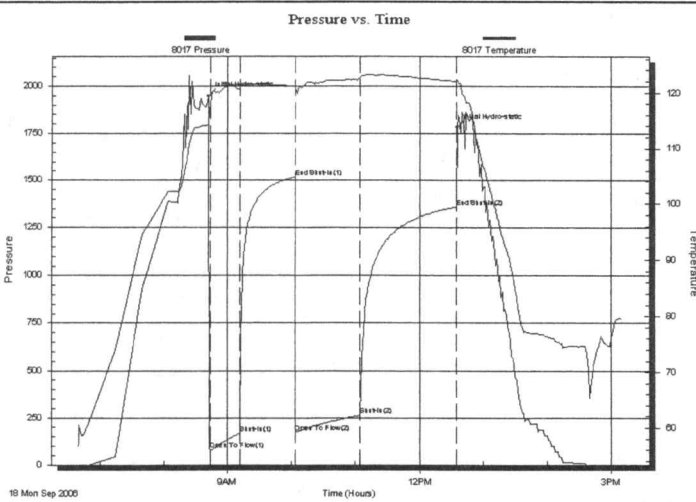
Formation: **L/KC "H"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:43:30  
 Time Test Ended: 15:10:15  
 Interval: **4096.00 ft (KB) To 4150.00 ft (KB) (TVD)**  
 Total Depth: 4150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: Southwind #1  
 Reference Elevations: 2831.00 ft (KB)  
 2821.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8017**

**Inside**

Press@RunDepth: 262.72 psig @ 4099.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.09.18      End Date: 2006.09.18      Last Calib.: 2006.09.18  
 Start Time: 06:39:01      End Time: 15:10:15      Time On Btm: 2006.09.18 @ 08:41:30  
 Time Off Btm: 2006.09.18 @ 12:35:15

**TEST COMMENT:** IF Fair blow built to BOB @ 7 min.  
 ISI No return  
 FF 1/2 " blow built to 11 in.  
 FSI No return



**PRESSURE SUMMARY**

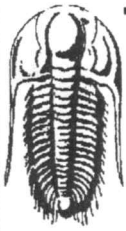
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.08	114.15	Initial Hydro-static
2	79.68	118.06	Open To Flow (1)
31	167.61	120.83	Shut-In(1)
82	1516.83	121.13	End Shut-In(1)
83	171.94	120.70	Open To Flow (2)
143	262.72	122.64	Shut-In(2)
234	1360.80	122.00	End Shut-In(2)
234	1782.80	122.13	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
186.00	OCM 20%O 80%M	2.61
186.00	GOWCM 10%G 5%O 35%W 50%M	2.61
124.00	GOWCM 4%G 1%O 10%W 85%M	1.74
62.00	MCW 30%M 70%W	0.87

**Gas Rates**

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



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TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Operating

**Jennison #1-32**

562 W Hwy 4  
Olmritz KS 67564-8561

**32 16S 29W Lane KS**

Job Ticket: 25613

**DST#: 2**

ATTN: Bob Lewellyn

Test Start: 2006.09.18 @ 06:39:00

**Tool Information**

Drill Pipe:	Length: 4078.00 ft	Diameter: 3.80 inches	Volume: 57.20 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: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4096.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4069.00	
Shut In Tool	5.00			4074.00	
Hydraulic tool	5.00			4079.00	
Jars	5.00			4084.00	
Safety Joint	3.00			4087.00	
Packer	5.00			4092.00	28.00 Bottom Of Top Packer
Packer	4.00			4096.00	
Stubb	1.00			4097.00	
Perforations	2.00			4099.00	
Recorder	0.00	8017	Inside	4099.00	
Perforations	13.00			4112.00	
Change Over Sub	1.00			4113.00	
Drill Pipe	31.00			4144.00	
Change Over Sub	1.00			4145.00	
Recorder	0.00	13276	Inside	4145.00	
Bullnose	5.00			4150.00	54.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>82.00</b>				



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ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25613      **DST#: 2**  
Test Start: 2006.09.18 @ 06:39:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 15000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
186.00	OCM 20%O 80%M	2.609
186.00	GOWCM 10%G 5%O 35%W 50%M	2.609
124.00	GOWCM 4%G 1%O 10%W 85%M	1.739
62.00	MCW 30%M 70%W	0.870

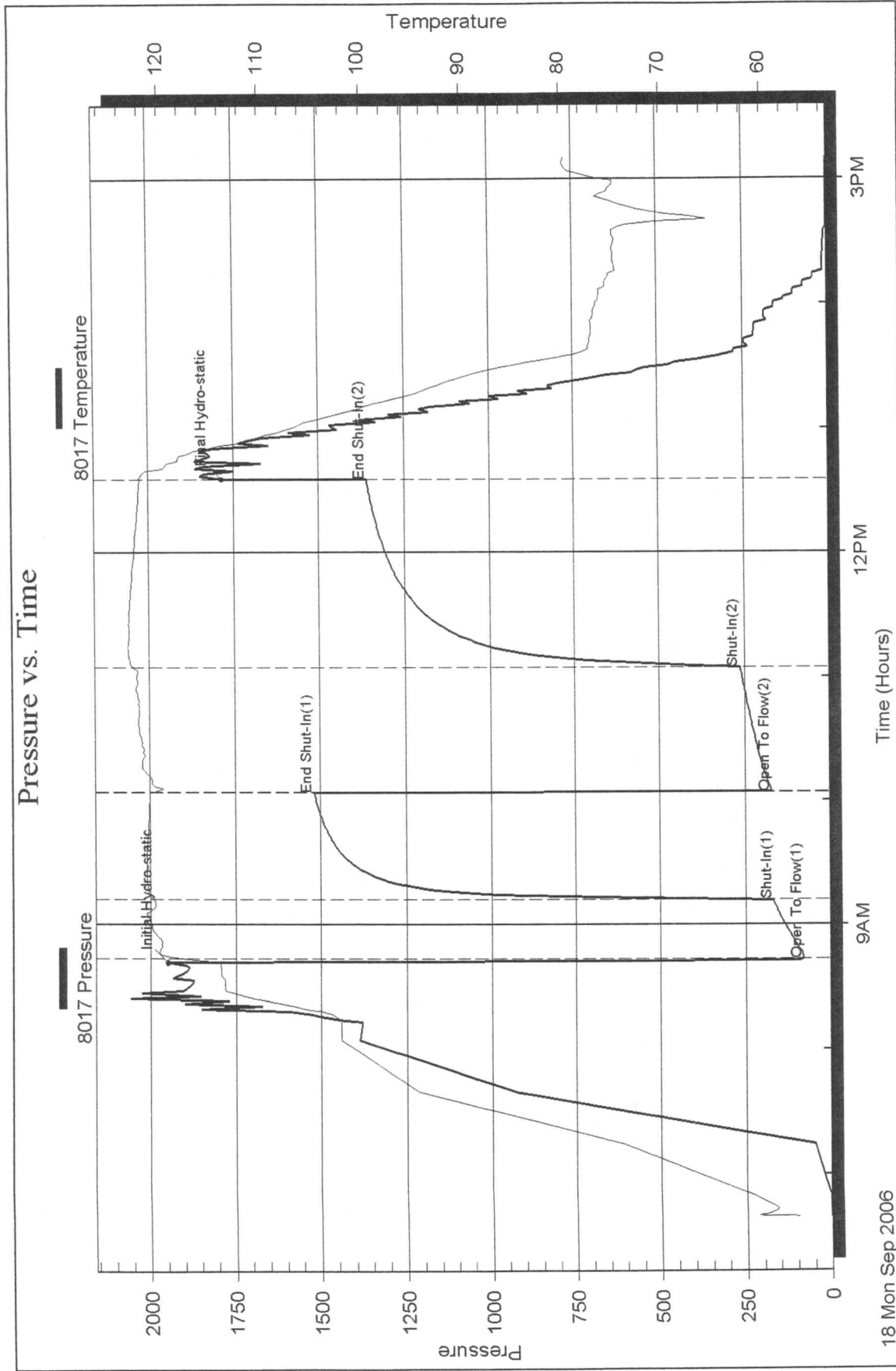
Total Length: 558.00 ft      Total Volume: 7.827 bbl

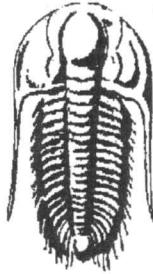
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW: .500 @ 76 degrees F = 15000 chlorides.  
62 feet of gas in pipe.

### Pressure vs. Time





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## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.19 @ 01:54:32

End Date: 2006.09.19 @ 08:30:46

Job Ticket #: 25614                      DST #: 3

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# DRILL STEM TEST REPORT

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25614      **DST#: 3**  
Test Start: 2006.09.19 @ 01:54:32

## GENERAL INFORMATION:

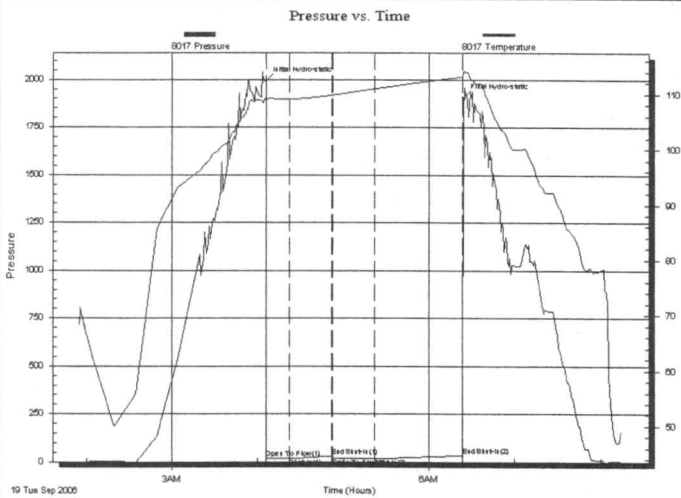
Formation: **KC**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 04:05:46  
Time Test Ended: 08:30:46  
Test Type: **Conventional Bottom Hole**  
Tester: **Shane McBride**  
Unit No: **Southwind #1**  
Interval: **4160.00 ft (KB) To 4182.00 ft (KB) (TVD)**  
Reference Elevations: **2831.00 ft (KB)**  
Total Depth: **4182.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
KB to GR/CF: **10.00 ft**

## Serial #: 8017

**Inside**

Press@RunDepth: **17.01 psig @ 4161.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2006.09.19** End Date: **2006.09.19** Last Calib.: **2006.09.19**  
Start Time: **01:54:32** End Time: **08:14:46** Time On Btm: **2006.09.19 @ 04:05:31**  
Time Off Btm: **2006.09.19 @ 06:23:46**

TEST COMMENT: Weak blow died in 5 min.  
No return  
Bubble to open tool No blow  
No return



## PRESSURE SUMMARY

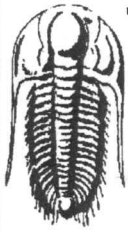
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.31	109.29	Initial Hydro-static
1	17.26	108.62	Open To Flow (1)
17	18.66	109.10	Shut-In(1)
47	31.79	109.83	End Shut-In(1)
47	17.35	109.83	Open To Flow (2)
77	17.01	110.98	Shut-In(2)
138	36.59	113.18	End Shut-In(2)
139	1907.20	113.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/Oil spots	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25614      **DST#: 3**  
Test Start: 2006.09.19 @ 01:54:32

### Tool Information

Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4160.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4133.00	
Shut In Tool	5.00			4138.00	
Hydraulic tool	5.00			4143.00	
Jars	5.00			4148.00	
Safety Joint	3.00			4151.00	
Packer	5.00			4156.00	28.00 Bottom Of Top Packer
Packer	4.00			4160.00	
Stubb	1.00			4161.00	
Recorder	0.00	8017	Inside	4161.00	
Perforations	16.00			4177.00	
Recorder	0.00	13276	Inside	4177.00	
Bullnose	5.00			4182.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



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ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25614      **DST#: 3**  
Test Start: 2006.09.19 @ 01:54:32

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

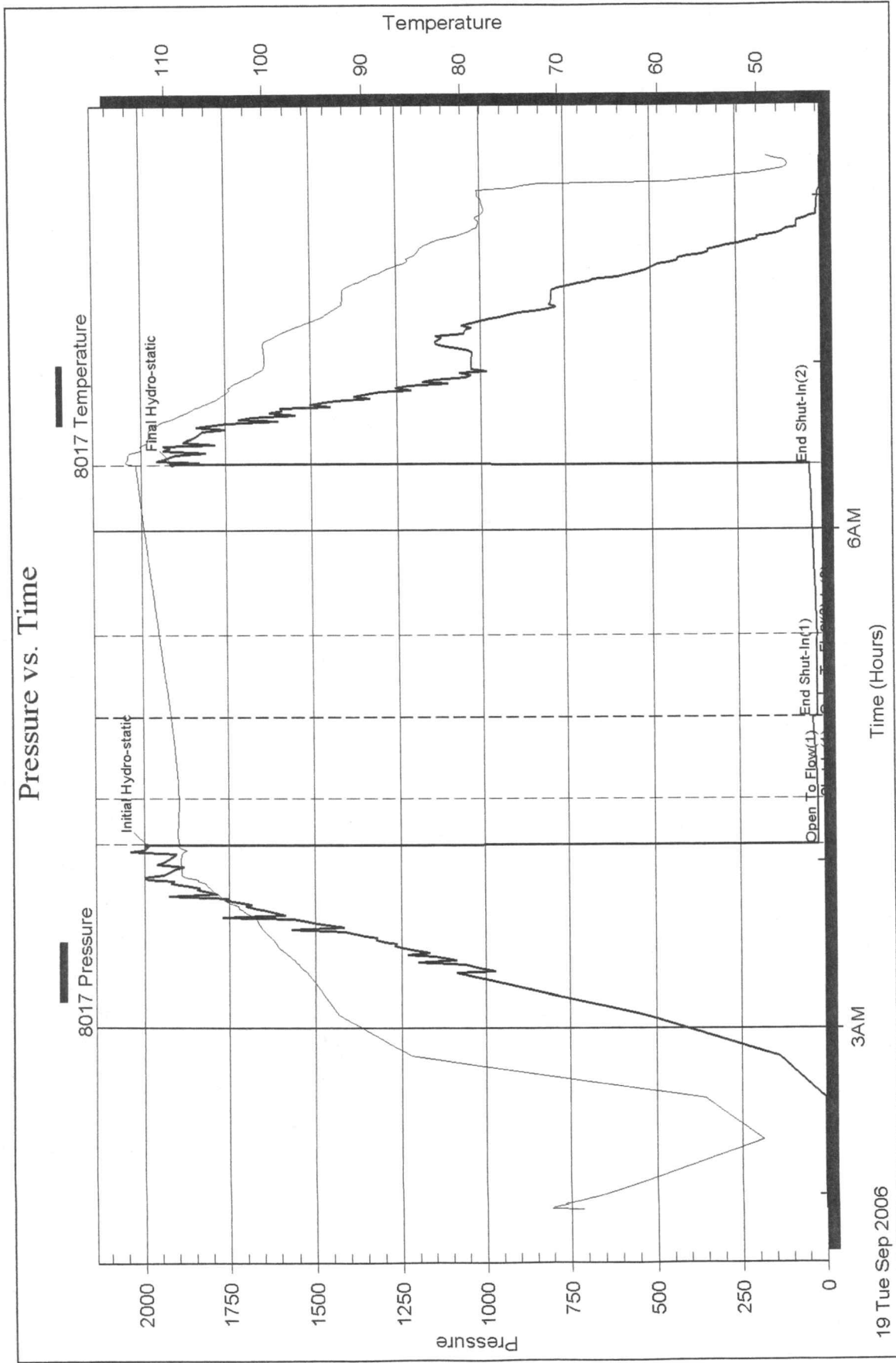
## Recovery Information

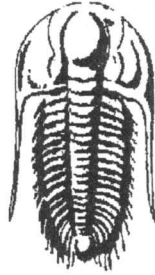
Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w/Oil spots	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





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## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.19 @ 18:35:50

End Date: 2006.09.20 @ 02:10:04

Job Ticket #: 25615                      DST #: 4

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## DRILL STEM TEST REPORT

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ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25615      **DST#: 4**  
Test Start: 2006.09.19 @ 18:35:50

### GENERAL INFORMATION:

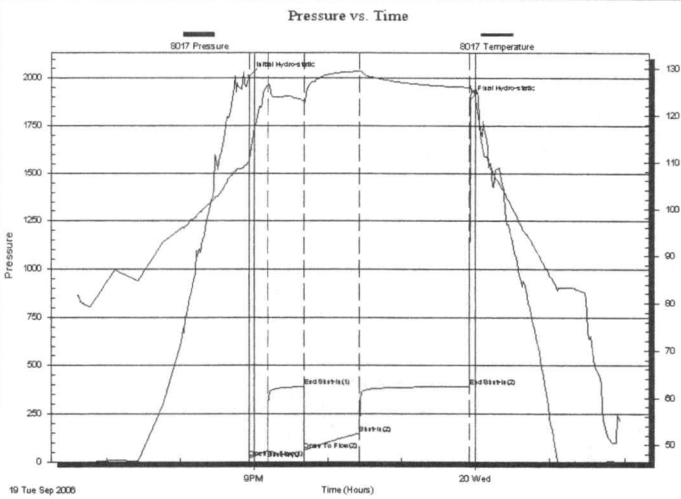
Formation: **KC**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 20:55:49  
Time Test Ended: 02:10:04  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: Southwind #1  
Interval: **4208.00 ft (KB) To 4224.00 ft (KB) (TVD)**  
Total Depth: 4224.00 ft (KB) (TVD)  
Reference Elevations: 2831.00 ft (KB)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: 10.00 ft

### Serial #: 8017

### Inside

Press@RunDepth: 146.75 psig @ 4209.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.09.19      End Date: 2006.09.20      Last Calib.: 2006.09.20  
Start Time: 18:35:50      End Time: 01:57:04      Time On Btm: 2006.09.19 @ 20:55:34  
Time Off Btm: 2006.09.19 @ 23:56:04

TEST COMMENT: 1/4 " @ open built to 8 "  
No return  
Surface blow built to B.O.B. in 33 min.  
No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.00	110.17	Initial Hydro-static
1	20.83	109.86	Open To Flow (1)
15	58.81	126.60	Shut-In(1)
45	391.12	122.88	End Shut-In(1)
46	61.04	122.80	Open To Flow (2)
90	146.75	129.40	Shut-In(2)
180	392.02	126.01	End Shut-In(2)
181	1892.31	126.29	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCW 45%M 55%W	0.42
240.00	Water 100%W	3.37

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25615      **DST#: 4**  
Test Start: 2006.09.19 @ 18:35:50

### Tool Information

Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4208.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4181.00	
Shut In Tool	5.00			4186.00	
Hydraulic tool	5.00			4191.00	
Jars	5.00			4196.00	
Safety Joint	3.00			4199.00	
Packer	5.00			4204.00	28.00      Bottom Of Top Packer
Packer	4.00			4208.00	
Stubb	1.00			4209.00	
Recorder	0.00	8017	Inside	4209.00	
Perforations	10.00			4219.00	
Recorder	0.00	13276	Inside	4219.00	
Bullnose	5.00			4224.00	16.00      Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25615      **DST#: 4**  
Test Start: 2006.09.19 @ 18:35:50

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2200.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

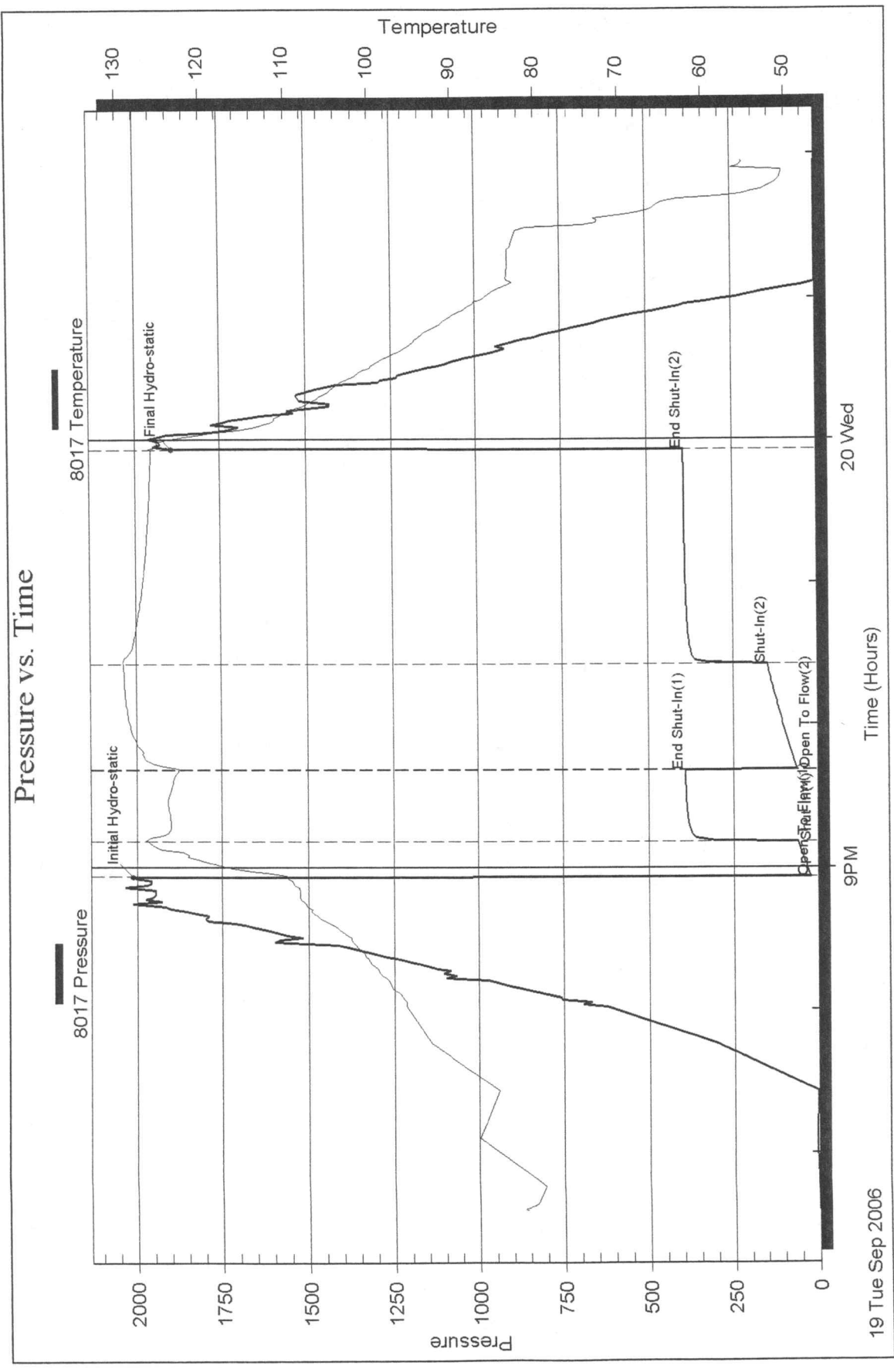
Length ft	Description	Volume bbl
30.00	MCW 45%M 55%W	0.421
240.00	Water 100%W	3.367

Total Length: 270.00 ft      Total Volume: 3.788 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw .250 @ 60\*f = 32,000 chlor





## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.20 @ 11:01:04

End Date: 2006.09.20 @ 17:00:28

Job Ticket #: 25563                      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

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25563      **DST#: 5**  
Test Start: 2006.09.20 @ 11:01:04

**GENERAL INFORMATION:**

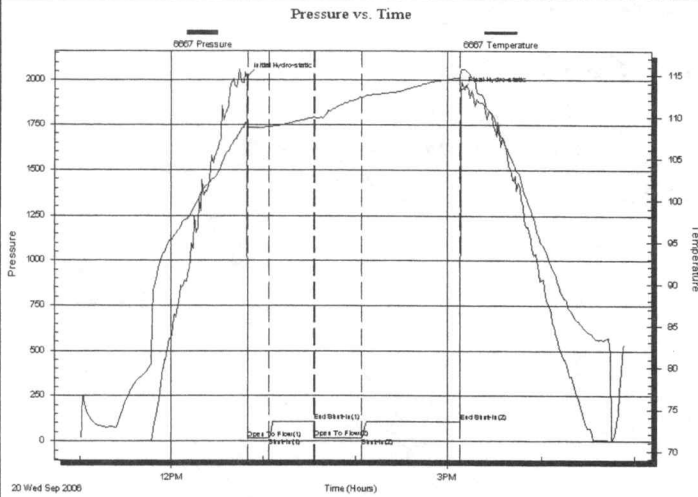
Formation: **KC**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 12:49:44  
Time Test Ended: 17:00:28  
Test Type: **Conventional Bottom Hole**  
Tester: **Shane McBride**  
Unit No: **1**  
Interval: **4241.00 ft (KB) To 4257.00 ft (KB) (TVD)**  
Reference Elevations: **2831.00 ft (KB)**  
Total Depth: **4257.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
KB to GR/CF: **10.00 ft**

**Serial #: 6667**

**Inside**

Press@RunDepth: **18.15 psig @ 4242.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2006.09.20** End Date: **2006.09.20** Last Calib.: **2006.09.20**  
Start Time: **11:01:04** End Time: **16:53:28** Time On Btm: **2006.09.20 @ 12:49:14**  
Time Off Btm: **2006.09.20 @ 15:08:14**

TEST COMMENT: Weak blow died in 5 min.  
No return  
No blow  
No return



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.92	109.14	Initial Hydro-static
1	14.43	108.72	Open To Flow (1)
15	16.17	108.83	Shut-In(1)
44	109.01	109.97	End Shut-In(1)
45	16.31	109.92	Open To Flow (2)
75	18.15	112.36	Shut-In(2)
139	108.97	114.75	End Shut-In(2)
139	1941.62	115.45	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
3.00	Mw /O spots 100%M	0.04

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25563      **DST#: 5**  
Test Start: 2006.09.20 @ 11:01:04

### Tool Information

Drill Pipe:	Length: 4238.00 ft	Diameter: 3.80 inches	Volume: 59.45 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		<u>Total Volume:</u>	<u>59.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4241.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 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			4215.00		
Shut In Tool	5.00			4220.00		
Hydraulic tool	5.00			4225.00		
Jars	5.00			4230.00		
Safety Joint	2.00			4232.00		
Packer	5.00		Fluid	4237.00	27.00	Bottom Of Top Packer
Packer	4.00			4241.00		
Stubb	1.00			4242.00		
Recorder	0.00	6667	Inside	4242.00		
Perforations	10.00			4252.00		
Recorder	0.00	11058	Inside	4252.00		
Bullnose	5.00			4257.00	16.00	Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lew ellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 25563      **DST#: 5**  
Test Start: 2006.09.20 @ 11:01:04

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

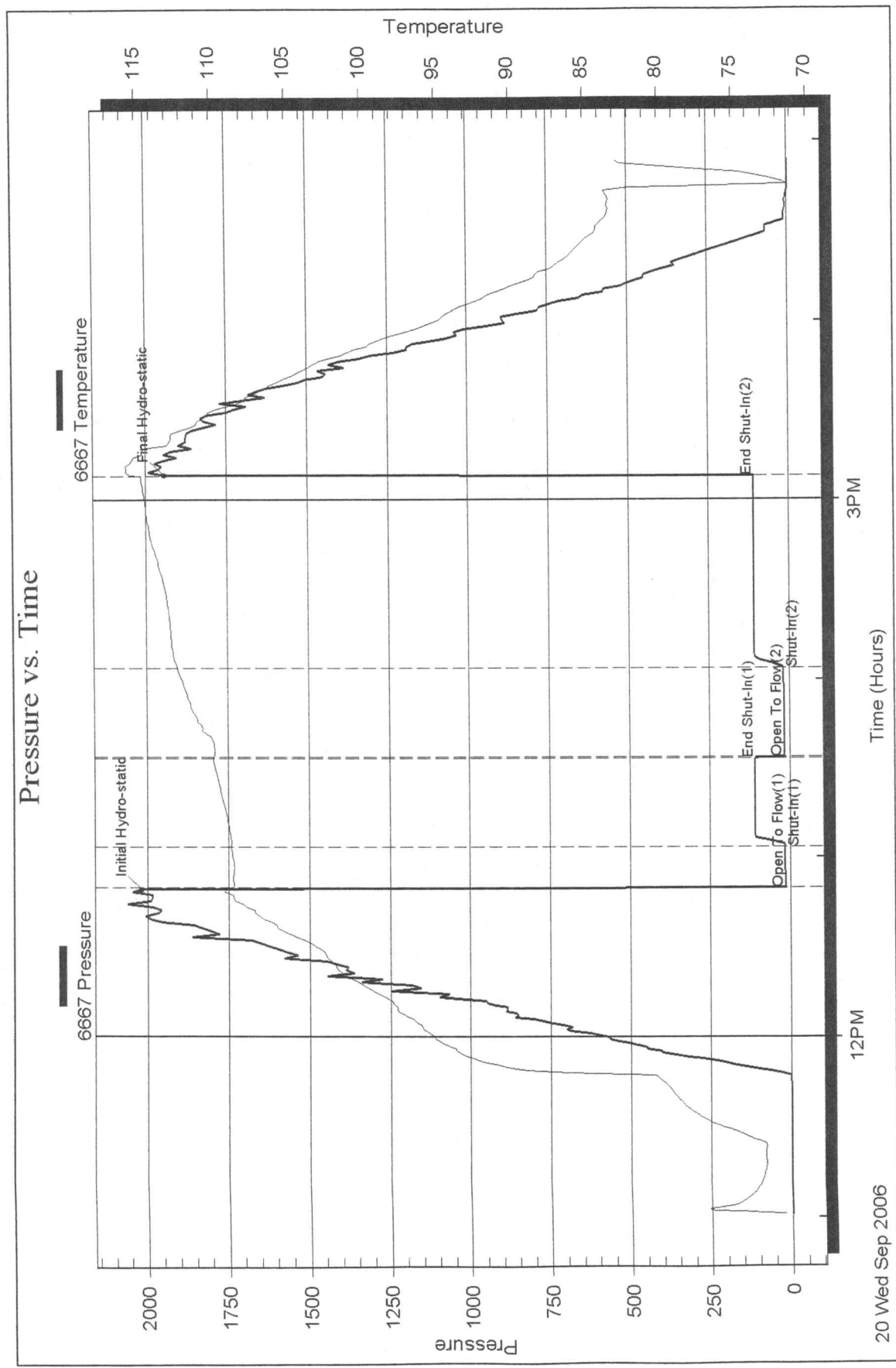
**Recovery Information**

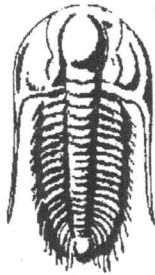
Recovery Table

Length ft	Description	Volume bbl
3.00	Mw /O spots 100%M	0.042

Total Length: 3.00 ft      Total Volume: 0.042 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: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.21 @ 14:39:21

End Date: 2006.09.21 @ 21:33:00

Job Ticket #: 26285                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26285      **DST#: 6**  
Test Start: 2006.09.21 @ 14:39:21

## GENERAL INFORMATION:

Formation: **Altamont**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:21:46  
Time Test Ended: 21:33:00  
Interval: **4335.00 ft (KB) To 4414.00 ft (KB) (TVD)**  
Total Depth: 4414.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2831.00 ft (KB)  
2821.00 ft (CF)  
KB to GR/CF: 10.00 ft

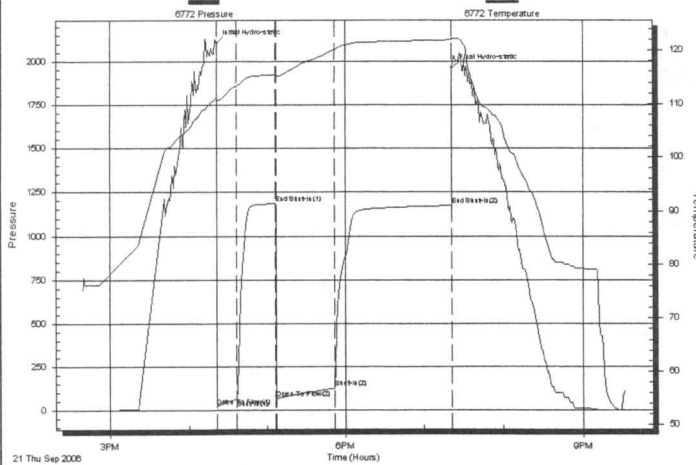
## Serial #: 6772

Inside

Press@RunDepth: 127.12 psig @ 4336.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2006.09.21 End Date: 2006.09.21 Last Calib.: 2006.09.21  
Start Time: 14:39:21 End Time: 21:33:00 Time On Btm: 2006.09.21 @ 16:21:31  
Time Off Btm: 2006.09.21 @ 19:21:15

TEST COMMENT: IF 1/4 blow built to 6 in 15 min.  
IS No return  
FF BOB in 35 min.  
FS No return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.14	111.06	Initial Hydro-static
1	26.06	110.57	Open To Flow (1)
16	61.68	113.26	Shut-In(1)
46	1184.92	115.37	End Shut-In(1)
46	70.07	115.17	Open To Flow (2)
91	127.12	120.17	Shut-In(2)
180	1173.57	121.98	End Shut-In(2)
180	1961.30	122.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 10%G 2%O 88%M	1.74
124.00	OCM 2%O 98%M	1.74

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating

Jennison #1-32

562 W Hwy 4  
Olmritz KS 67564-8561

32 16S 29W Lane KS

Job Ticket: 26285

DST#: 6

ATTN: Bob Lewellyn

Test Start: 2006.09.21 @ 14:39:21

### Tool Information

Drill Pipe:	Length: 4328.00 ft	Diameter: 3.80 inches	Volume: 60.71 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 60.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4335.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4309.00	
Shut In Tool	5.00			4314.00	
Hydraulic tool	5.00			4319.00	
Jars	5.00			4324.00	
Safety Joint	2.00			4326.00	
Packer	5.00			4331.00	27.00 Bottom Of Top Packer
Packer	4.00			4335.00	
Stubb	1.00			4336.00	
Recorder	0.00	6772	Inside	4336.00	
Perforations	8.00			4344.00	
Change Over Sub	1.00			4345.00	
Drill Pipe	63.00			4408.00	
Change Over Sub	1.00			4409.00	
Recorder	0.00	7437	Outside	4409.00	
Bullnose	5.00			4414.00	79.00 Bottom Packers & Anchor

**Total Tool Length: 106.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lew ellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26285      **DST#: 6**  
Test Start: 2006.09.21 @ 14:39:21

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

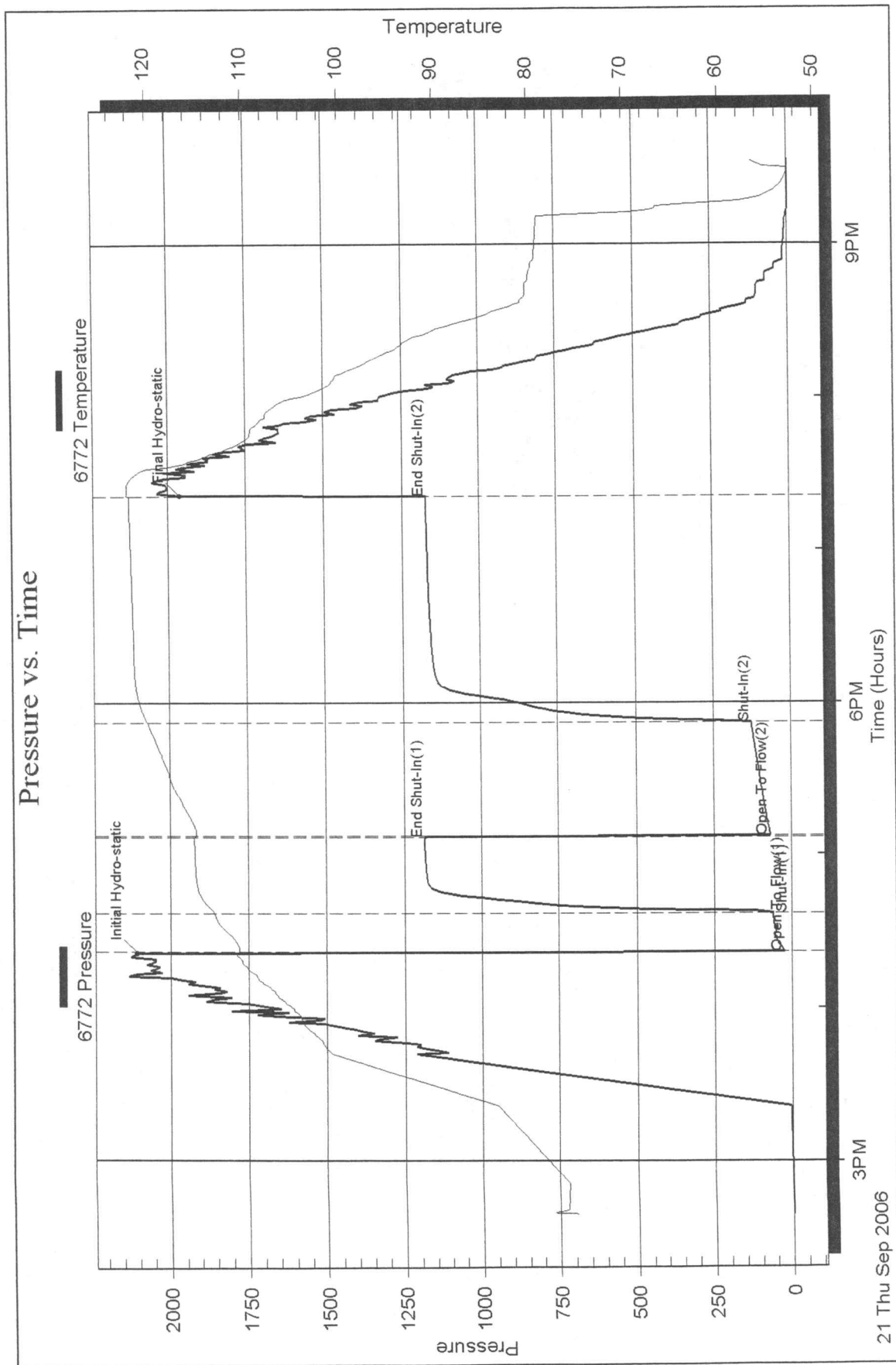
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 10%G 2%O 88%M	1.739
124.00	OCM 2%O 98%M	1.739

Total Length: 248.00 ft      Total Volume: 3.478 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time



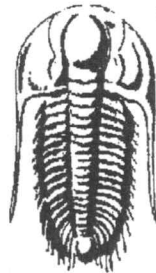
21 Thu Sep 2006

9PM

6PM

3PM

Time (Hours)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.22 @ 13:35:27

End Date: 2006.09.22 @ 21:05:36

Job Ticket #: 26286                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

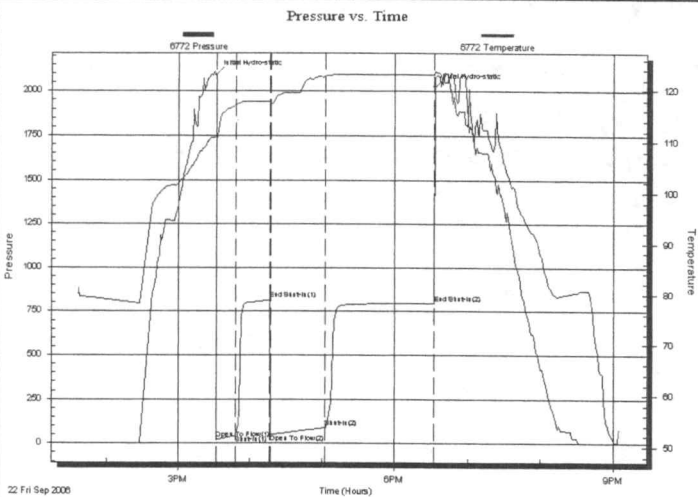
**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26286      **DST#: 7**  
Test Start: 2006.09.22 @ 13:35:27

## GENERAL INFORMATION:

Formation: **Myric Stration- Ft.**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 15:32:22  
Time Test Ended: 21:05:36  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Interval: **4417.00 ft (KB) To 4490.00 ft (KB) (TVD)**  
Total Depth: 4490.00 ft (KB) (TVD)  
Reference Elevations: 2831.00 ft (KB)  
2821.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: 10.00 ft

**Serial #: 6772**      **Inside**  
Press@RunDepth: 87.97 psig @ 4418.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.09.22      End Date: 2006.09.22      Last Calib.: 2006.09.22  
Start Time: 13:35:27      End Time: 21:05:36      Time On Btm: 2006.09.22 @ 15:31:52  
Time Off Btm: 2006.09.22 @ 18:32:51

TEST COMMENT: IF 1/4 blow built to 7 in 15 min.  
IS No return  
FF BOB in 26 min.  
FS No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.47	110.93	Initial Hydro-static
1	23.44	110.50	Open To Flow (1)
16	43.15	117.09	Shut-In(1)
45	815.82	117.72	End Shut-In(1)
46	48.46	117.55	Open To Flow (2)
91	87.97	122.72	Shut-In(2)
181	796.55	123.17	End Shut-In(2)
181	2024.74	123.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 10%G 10%O 80%M	0.87
82.00	OCM 10%O 90%M	1.15

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26286      **DST#: 7**  
Test Start: 2006.09.22 @ 13:35:27

### Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 62.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4417.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4391.00	
Shut In Tool	5.00			4396.00	
Hydraulic tool	5.00			4401.00	
Jars	5.00			4406.00	
Safety Joint	2.00			4408.00	
Packer	5.00			4413.00	27.00      Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	6772	Inside	4418.00	
Perforations	2.00			4420.00	
Change Over Sub	1.00			4421.00	
Drill Pipe	63.00			4484.00	
Change Over Sub	1.00			4485.00	
Recorder	0.00	7437	Outside	4485.00	
Bullnose	5.00			4490.00	73.00      Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26286      **DST#: 7**  
Test Start: 2006.09.22 @ 13:35:27

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCM 10%G 10%O 80%M	0.870
82.00	OCM 10%O 90%M	1.150

Total Length: 144.00 ft      Total Volume: 2.020 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 6772

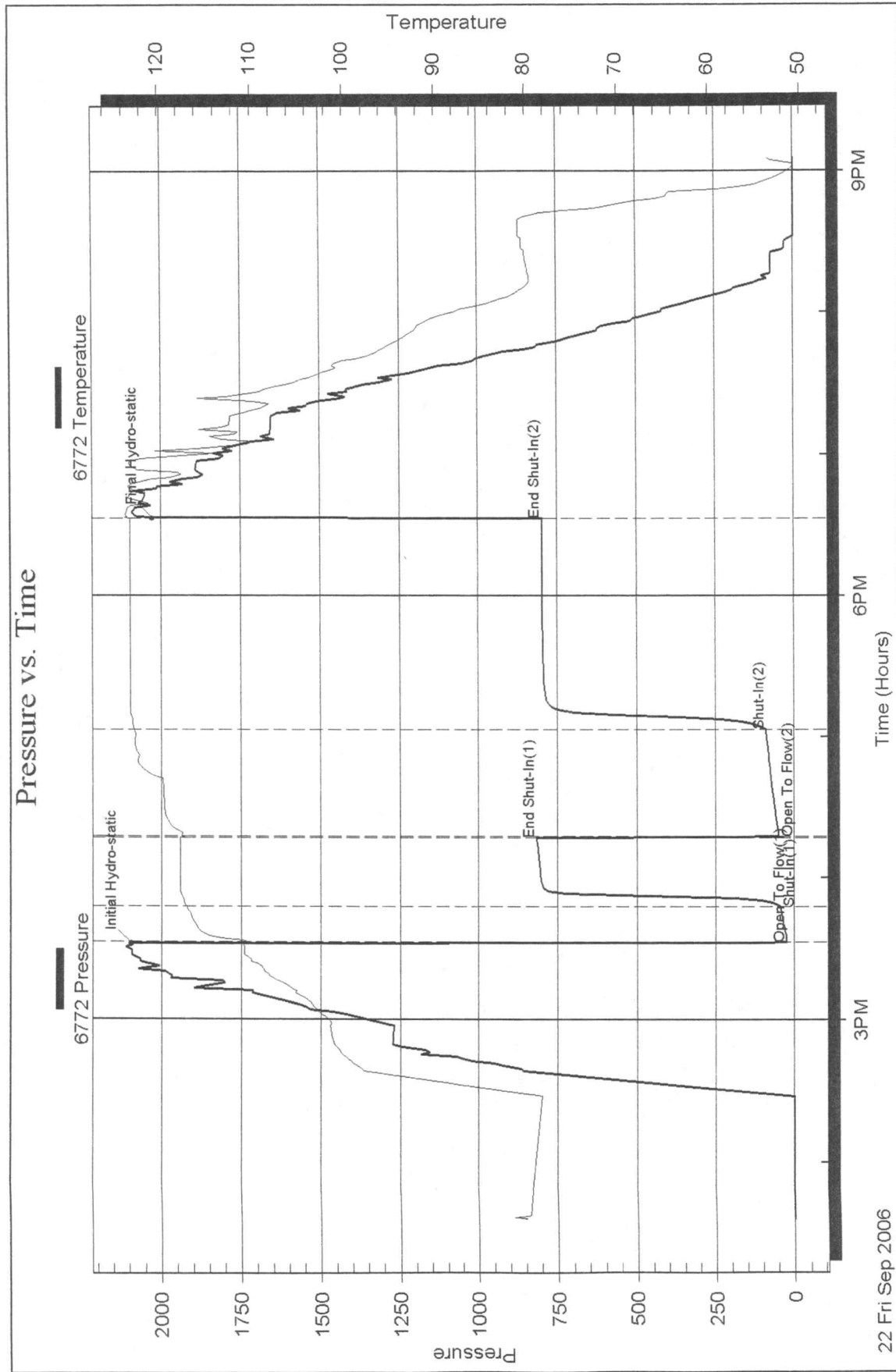
Inside

Larson Operating

32 16S29W Lane KS

DST Test Number: 7

### Pressure vs. Time



22 Fri Sep 2006



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

## DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4  
Olmitz KS 67564-8561

ATTN: Bob Lewellyn

**32 16S 29W Lane KS**

**Jennison #1-32**

Start Date: 2006.09.23 @ 09:06:49

End Date: 2006.09.23 @ 15:04:43

Job Ticket #: 26287                      DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26287      **DST#: 8**  
Test Start: 2006.09.23 @ 09:06:49

### GENERAL INFORMATION:

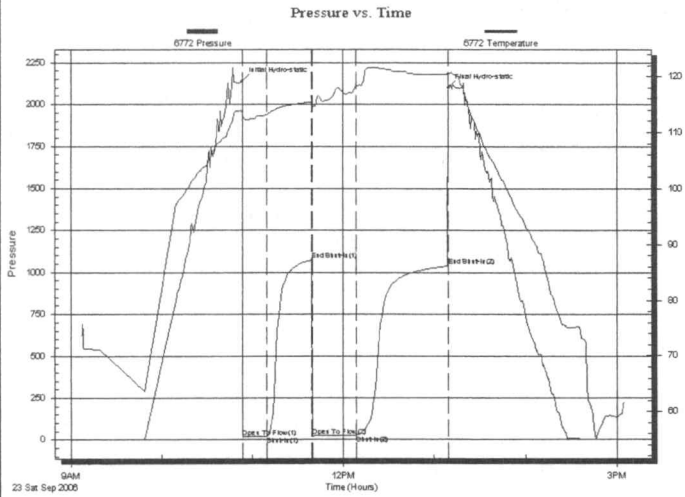
Formation: **Johnson**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:53:44  
Time Test Ended: 15:04:43  
Interval: **4484.00 ft (KB) To 4540.00 ft (KB) (TVD)**  
Total Depth: 4540.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2831.00 ft (KB)  
2821.00 ft (CF)  
KB to GR/CF: 10.00 ft

### Serial #: 6772

Inside

Press@RunDepth: 26.96 psig @ 4485.00 ft (KB)  
Start Date: 2006.09.23      End Date: 2006.09.23  
Start Time: 09:06:49      End Time: 15:04:43  
Capacity: 7000.00 psig  
Last Calib.: 2006.09.23  
Time On Btm: 2006.09.23 @ 10:53:29  
Time Off Btm: 2006.09.23 @ 13:09:29

TEST COMMENT: IF 1/4 blow died in 8 min.  
ISI No return  
FF No blow  
FS No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.89	113.44	Initial Hydro-static
1	16.57	112.18	Open To Flow (1)
16	20.97	113.19	Shut-In(1)
46	1074.90	115.47	End Shut-In(1)
46	21.28	115.10	Open To Flow (2)
76	26.96	118.21	Shut-In(2)
136	1039.35	120.42	End Shut-In(2)
136	2099.02	120.68	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud Oil spots 100%M	0.14

### Gas Rates

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



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TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
  
ATTN: Bob Lewellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26287      **DST#: 8**  
Test Start: 2006.09.23 @ 09:06:49

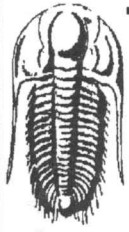
### Tool Information

Drill Pipe:	Length: 4481.00 ft	Diameter: 3.80 inches	Volume: 62.86 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4484.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4458.00	
Shut In Tool	5.00			4463.00	
Hydraulic tool	5.00			4468.00	
Jars	5.00			4473.00	
Safety Joint	2.00			4475.00	
Packer	5.00			4480.00	27.00      Bottom Of Top Packer
Packer	4.00			4484.00	
Stubb	1.00			4485.00	
Recorder	0.00	6772	Inside	4485.00	
Perforations	18.00			4503.00	
Change Over Sub	1.00			4504.00	
Drill Pipe	31.00			4535.00	
Change Over Sub	1.00			4536.00	
Recorder	0.00	7437	Outside	4536.00	
Bullnose	5.00			4541.00	57.00      Bottom Packers & Anchor

**Total Tool Length: 84.00**



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TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Operating  
562 W Hwy 4  
Olmitz KS 67564-8561  
ATTN: Bob Lew ellyn

**Jennison #1-32**  
**32 16S 29W Lane KS**  
Job Ticket: 26287      **DST#: 8**  
Test Start: 2006.09.23 @ 09:06:49

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

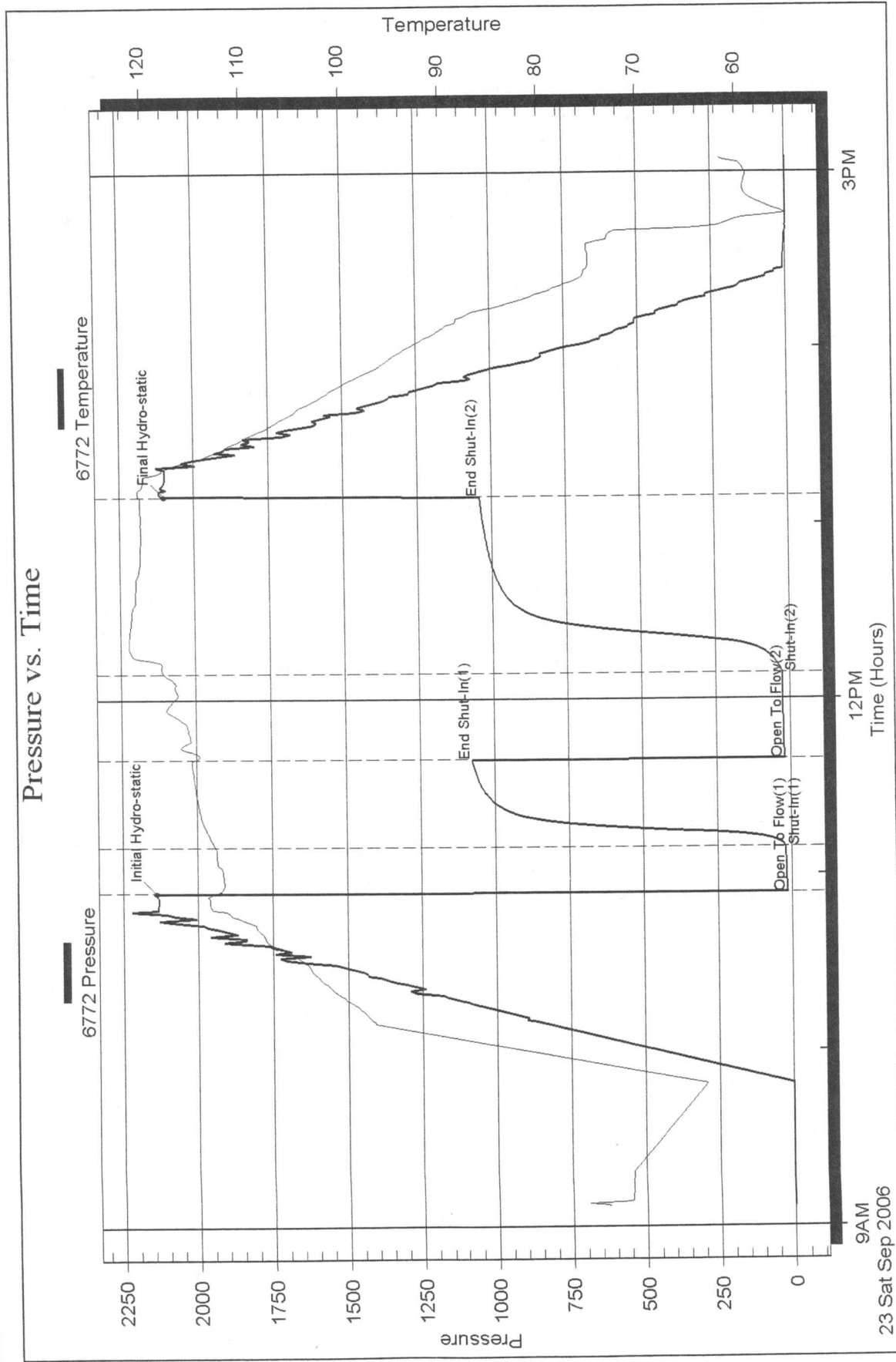
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud Oil spots 100%M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

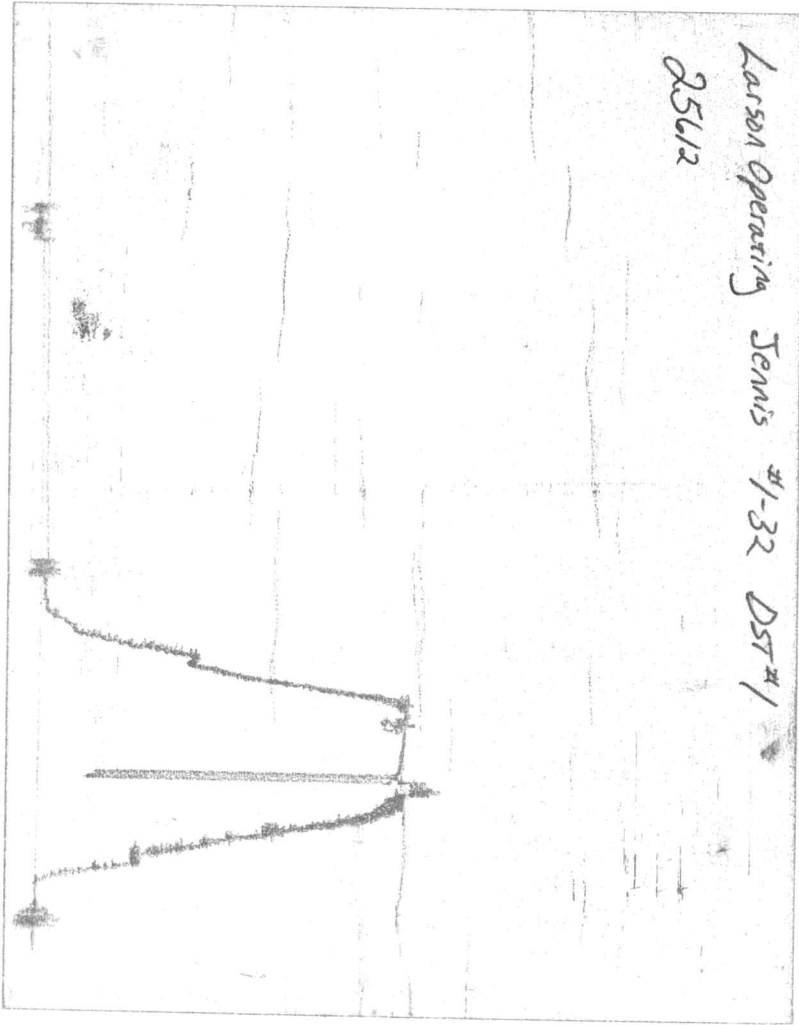
### Pressure vs. Time



**CHART PAGE**

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

Larson Operating Jennis #1-32 DST #1  
25612

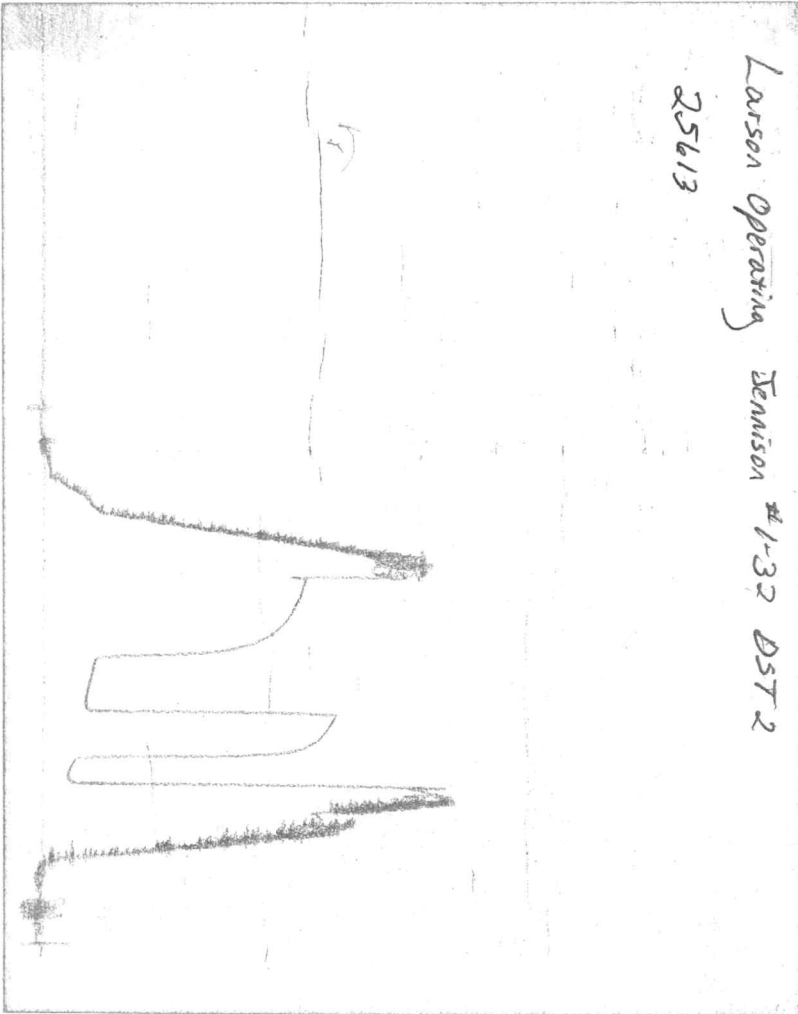


**CHART PAGE**

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

Larson Operating Sennison #1-32 DST 2

25613

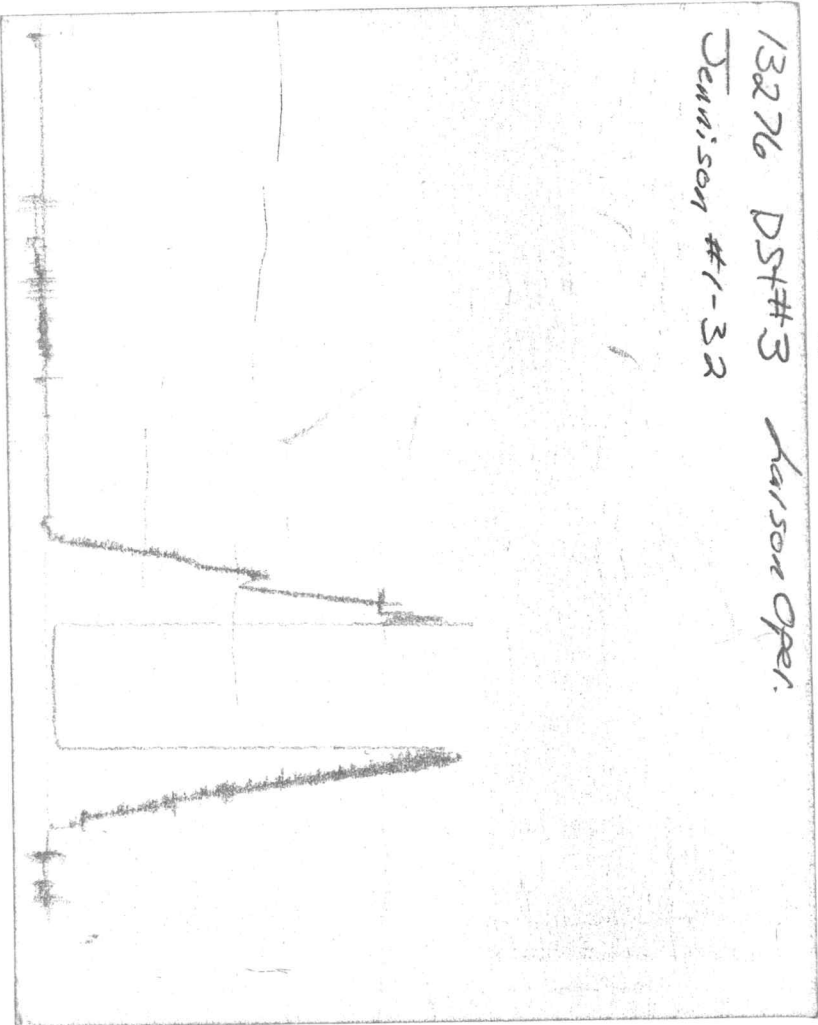


**CHART PAGE**

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

13276 DST#3 Larson Oper.

Dennis #1-32



**CHART PAGE**

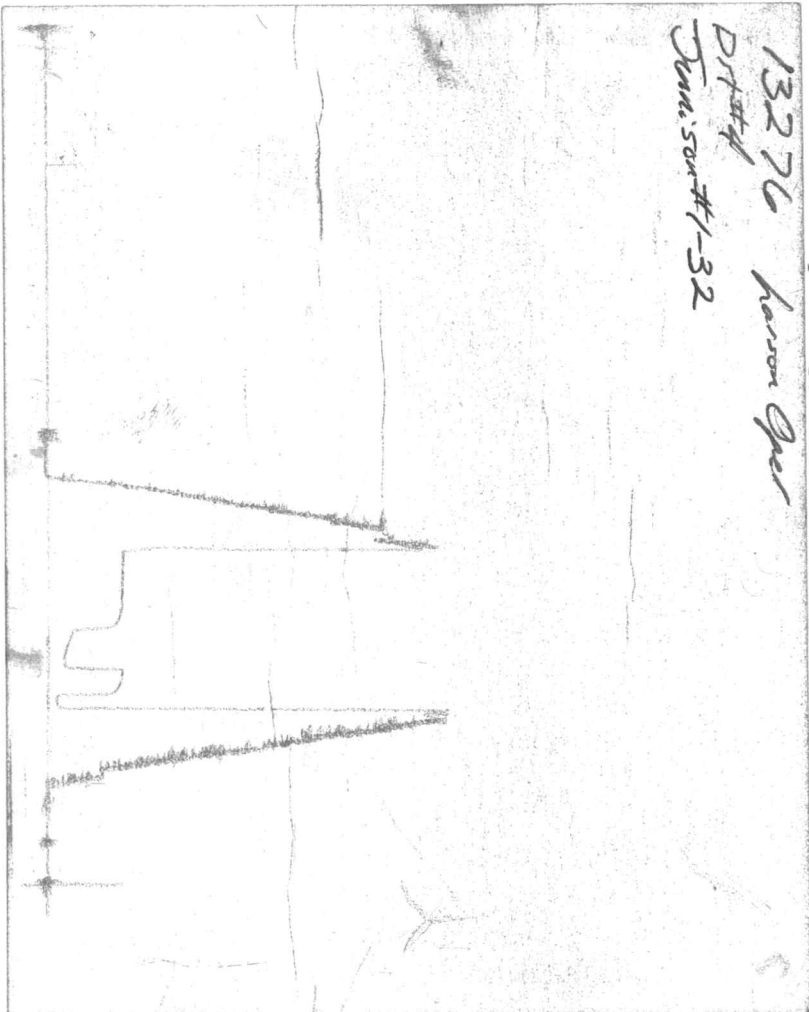
This is a photocopy of the actual AK-1 recorder chart.

13276

hanson spec

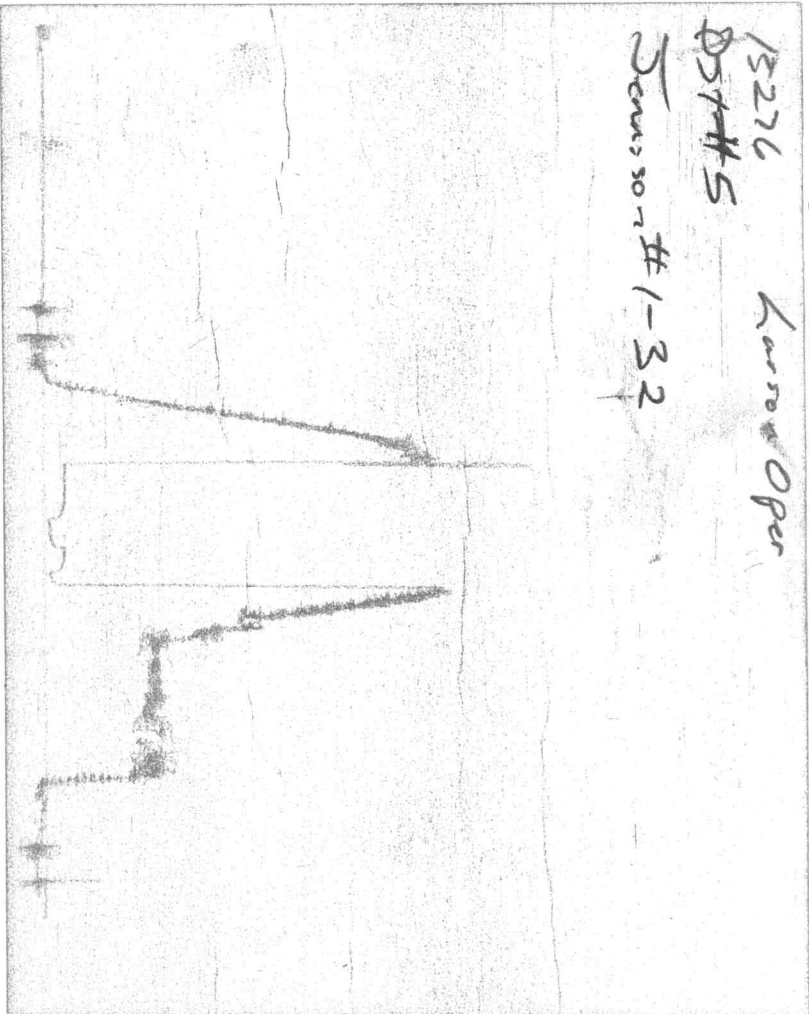
D1444

Davisson #1-32



**CHART PAGE**

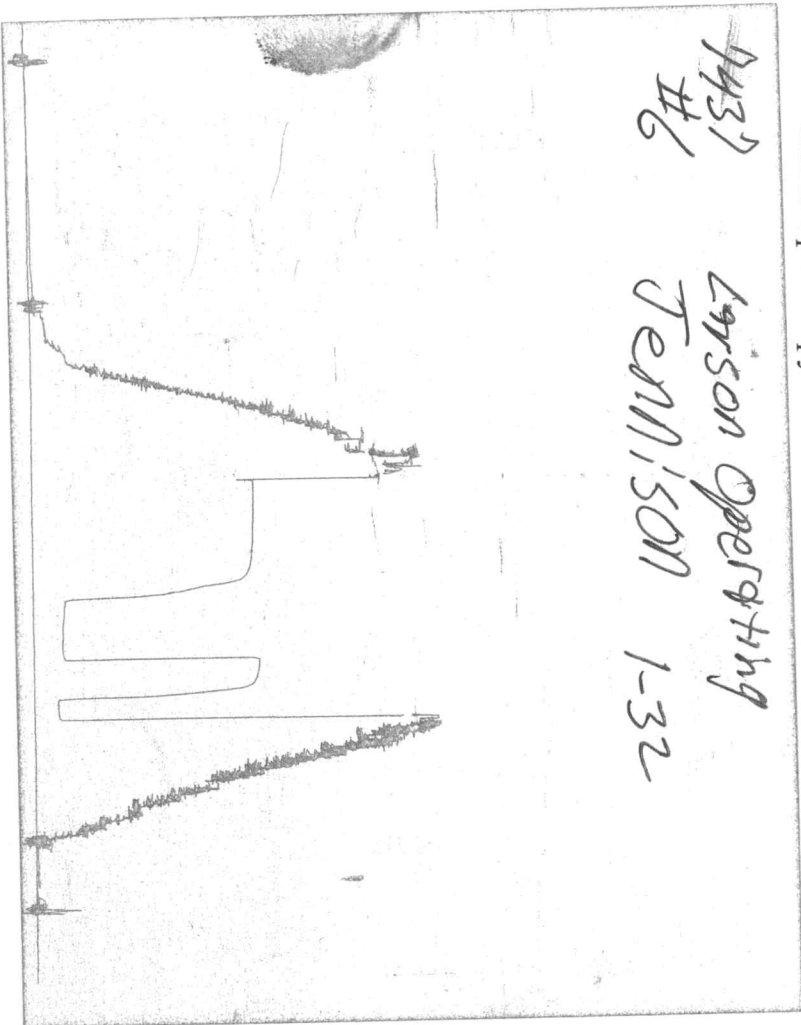
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**CHART PAGE**

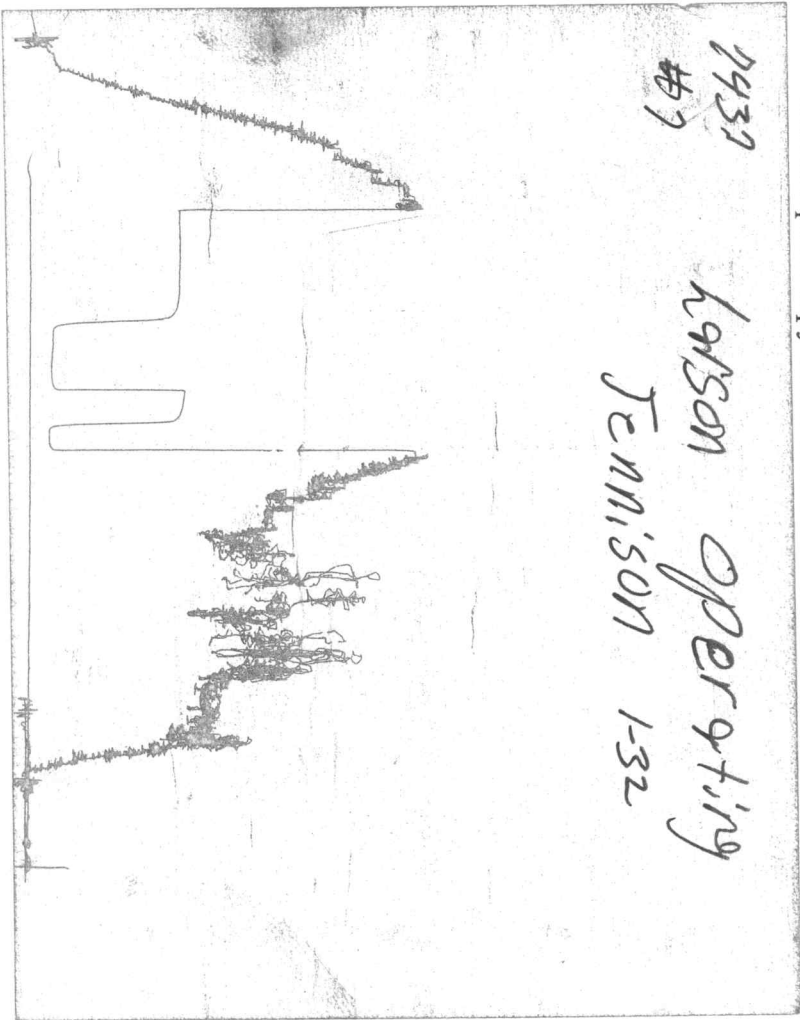
This is a photocopy of the actual AK-1 recorder chart.

9437  
#6  
Larson Operating  
Jennison 1-32



**CHART PAGE**

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



**CHART PAGE**

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

