

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**6-4s-21w Norton,KS**

**Schemper #1-6**

Start Date: 2011.04.23 @ 18:10:00

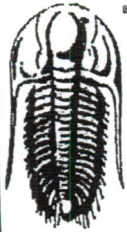
End Date: 2011.04.23 @ 22:16:30

Job Ticket #: 040770      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Schemper #1-6**

**6-4s-21w Norton, KS**

Job Ticket: 040770

DST#: 1

Test Start: 2011.04.23 @ 18:10:00

## GENERAL INFORMATION:

Formation: **LKC-A**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Cpened: 19:50:30  
 Time Test Ended: 22:16:30

Test Type: Conventional Bottom Hole  
 Tester: Chuck Kreutzer Jr.  
 Unit No: 36

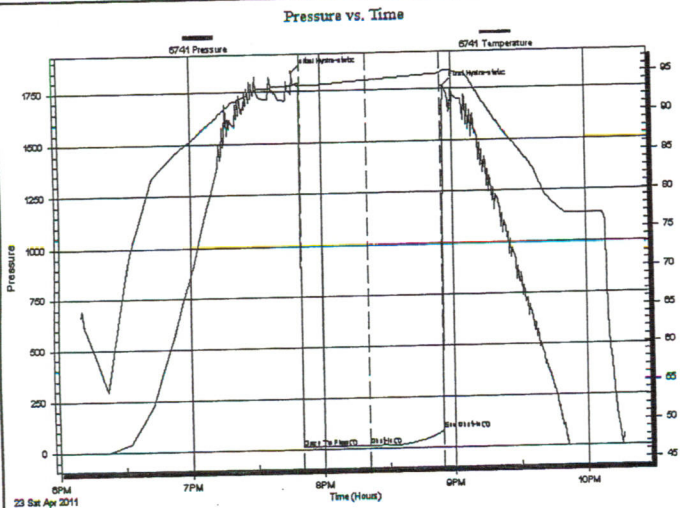
Interval: **3552.00 ft (KB) To 3573.00 ft (KB) (TVD)**  
 Total Depth: **3573.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2315.00 ft (KB)**  
**2310.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 6741** Outside  
 Press@RunDepth: **15.61 psig @ 3553.00 ft (KB)**  
 Start Date: **2011.04.23** End Date: **2011.04.23**  
 Start Time: **18:10:01** End Time: **22:16:30**

Capacity: **8000.00 psig**  
 Last Calib.: **2011.04.23**  
 Time On Btm: **2011.04.23 @ 19:47:00**  
 Time Off Btm: **2011.04.23 @ 20:56:00**

**TEST COMMENT:** IF: Weak blow, Died in 10 mins.  
 IS: No blow back over 30 mins.  
 ---- Pulled tool-----



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.41	93.80	Initial Hydro-static
4	13.06	93.69	Open To Flow (1)
34	15.61	94.30	Shut-In(1)
68	86.03	95.02	End Shut-In(1)
69	1761.43	95.35	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**Schemper #1-6**

PO Box 428  
Logan, KS 67646

**6-4s-21w Norton,KS**

Job Ticket: 040770

**DST#: 1**

ATTN: Richard Bell

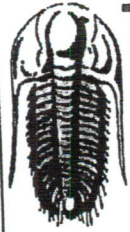
Test Start: 2011.04.23 @ 18:10:00

### Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<b>Total Volume: 48.51 bbl</b>	Tool Chased 2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3552.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 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			3537.00	
Hydraulic tool	5.00			3542.00	
Packer	5.00			3547.00	20.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.00	6752	Inside	3553.00	
Recorder	0.00	6741	Outside	3553.00	
Perforations	17.00			3570.00	
Bullnose	3.00			3573.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company

**Schemper #1-6**

PO Box 428  
Logan, KS 67646

**6-4s-21w Norton, KS**

Job Ticket: 040770

DST#: 1

ATTN: Richard Bell

Test Start: 2011.04.23 @ 18:10:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 69.00 sec/qt  
Water Loss: 6.39 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1100.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	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:

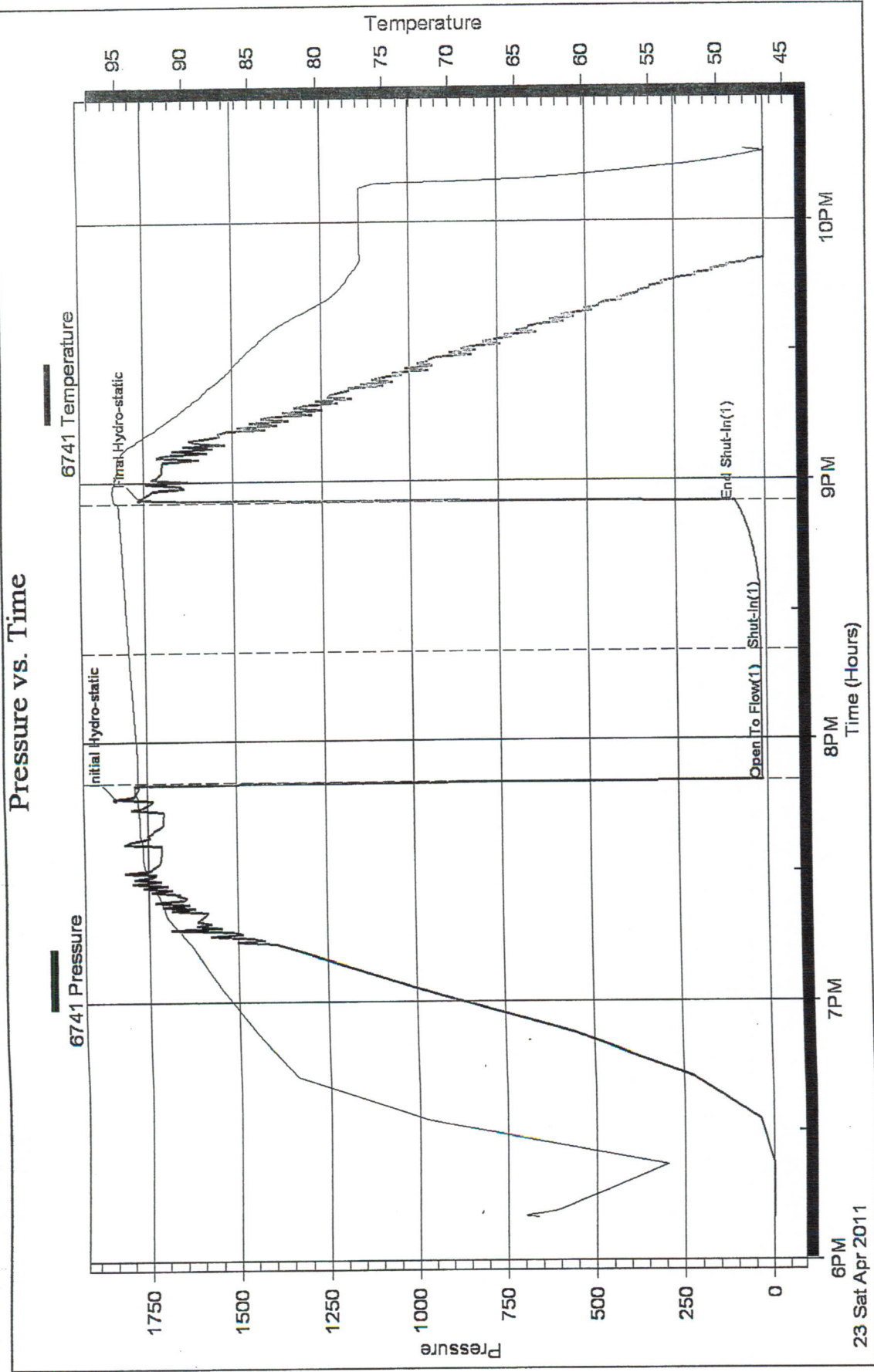
Recovery Comments:

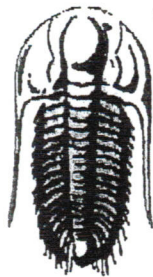
DST Test Number: 1

6-4s-21w Norton, KS

Serial #: 6741 Outside Baird Oil Company

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**6-4s-21w Norton,KS**

**Schemper #1-6**

Start Date: 2011.04.24 @ 04:40:00

End Date: 2011.04.24 @ 09:51:00

Job Ticket #: 040771          DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company

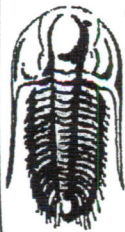
Schemper #1-6

6-4s-21w Norton,KS

DST # 2

LKC-C

2011.04.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company

**Schemper #1-6**

PO Box 428  
Logan, KS 67646

**6-4s-21w Norton, KS**

ATTN: Richard Bell

Job Ticket: 040771

DST#: 2

Test Start: 2011.04.24 @ 04:40:00

## GENERAL INFORMATION:

Formation: LKC-C

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:30

Time Test Ended: 09:51:00

Interval: 3578.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Reference Elevations: 2315.00 ft (KB)

2310.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741**

Outside

Press@RunDepth: 27.01 psig @ 3579.00 ft (KB)

Start Date: 2011.04.24

End Date:

2011.04.24

Start Time: 04:40:01

End Time:

09:51:00

Capacity: 8000.00 psig

Last Calib.: 2011.04.24

Time On Btrr: 2011.04.24 @ 06:32:00

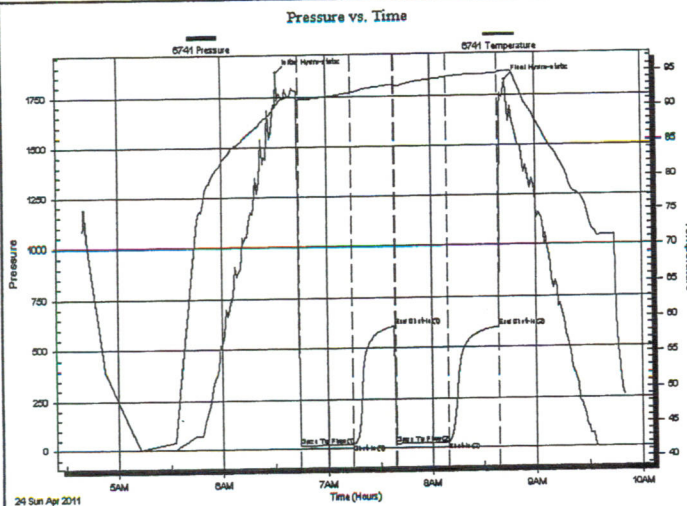
Time Off Btrr: 2011.04.24 @ 08:43:00

TEST COMMENT: IF: Weak blow, Built to 1/4 in. over 30 mins.

IS: No blow back over 30 mins.

FF: No blow over 30 mins.

FS: No blow back over 30 mins.



## PRESSURE SUMMARY

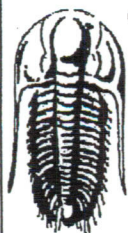
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.29	90.40	Initial Hydro-static
13	14.57	91.06	Open To Flow (1)
43	21.05	92.14	Shut-In(1)
67	608.04	93.21	End Shut-In(1)
68	22.39	93.08	Open To Flow (2)
98	27.01	94.20	Shut-In(2)
127	600.58	94.71	End Shut-In(2)
131	1824.35	95.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**Schemper #1-6**

PO Box 428  
Logan, KS 67646

**6-4s-21w Norton, KS**

Job Ticket: 040771

**DST#: 2**

ATTN: Richard Bell

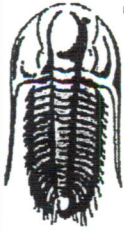
Test Start: 2011.04.24 @ 04:40:00

### Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.80 inches	Volume: 48.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 48.97 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3578.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 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			3563.00	
Hydraulic tool	5.00			3568.00	
Packer	5.00			3573.00	20.00 Bottom Of Top Packer
Packer	5.00			3578.00	
Stubb	1.00			3579.00	
Recorder	0.00	6752	Inside	3579.00	
Recorder	0.00	6741	Outside	3579.00	
Perforations	18.00			3597.00	
Bullnose	3.00			3600.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Company

**Schemper #1-6**

PO Box 428  
Logan, KS 67646

**6-4s-21w Norton, KS**

Job Ticket: 040771

DST#: 2

ATTN: Richard Bell

Test Start: 2011.04.24 @ 04:40:00

**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: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.098

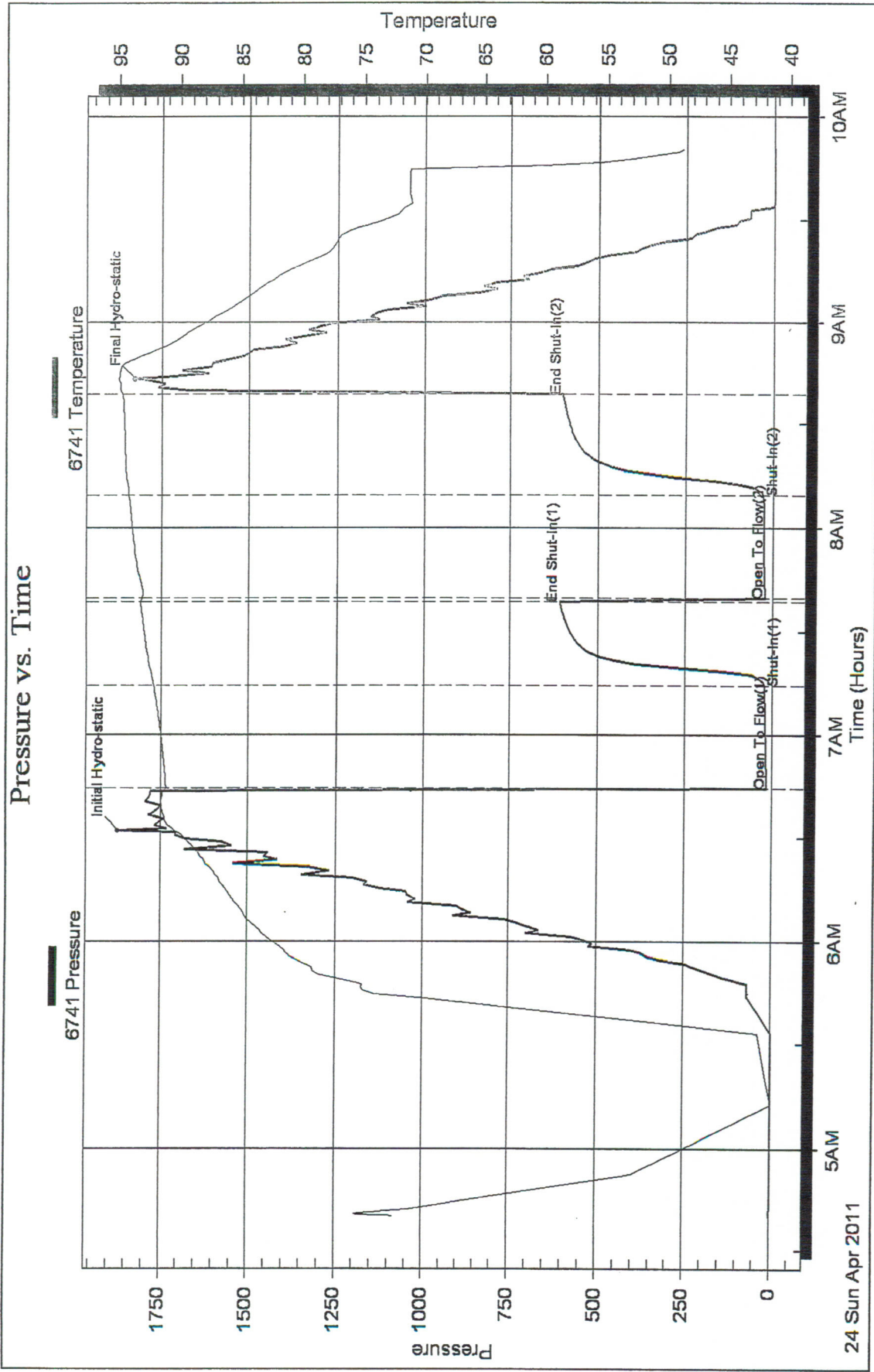
Total Length: 20.00 ft      Total Volume: 0.098 bbl

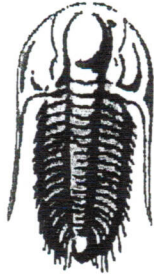
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**6-4s-21w Norton,KS**

**Schemper #1-6**

Start Date: 2011.04.24 @ 15:20:00

End Date: 2011.04.24 @ 19:25:30

Job Ticket #: 040772      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company

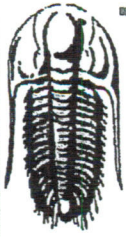
Schemper #1-6

6-4s-21w Norton,KS

DST # 3

LKC-D

2011.04.24



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Baird Oil Company

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Schemper #1-6**

**6-4s-21w Norton, KS**

Job Ticket: 040772

DST#: 3

Test Start: 2011.04.24 @ 15:20:00

### GENERAL INFORMATION:

Formation: LKC-D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:03:30

Time Test Ended: 19:25:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 3598.00 ft (KB) To 3620.00 ft (KB) (TVD)

Total Depth: 3620.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2315.00 ft (KB)

2310.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741**

Outside

Press@RunDepth: 15.48 psig @ 3599.00 ft (KB)

Start Date: 2011.04.24

End Date:

2011.04.24

Capacity: 8000.00 psig

Last Calib.: 2011.04.24

Start Time: 15:20:01

End Time:

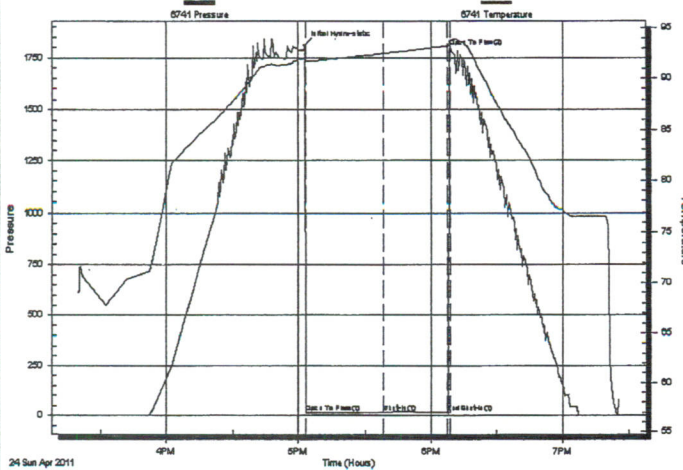
19:25:30

Time On Btm: 2011.04.24 @ 17:03:00

Time Off Btm:

TEST COMMENT: IF: Weak blow, Died in 3 mins.  
IS: No blow back over 30 mins.  
-----Pulled tool-----

Pressure vs. Time



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.92	91.97	Initial Hydro-static
1	13.97	91.66	Open To Flow (1)
36	15.48	92.49	Shut-In(1)
64	17.35	93.22	End Shut-In(1)
66	1800.19	93.61	Open To Flow (2)

### Recovery

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

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**Schemper #1-6**

PO Box 428  
Logan, KS 67646

**6-4s-21w Norton,KS**

Job Ticket: 040772

**DST#: 3**

ATTN: Richard Bell

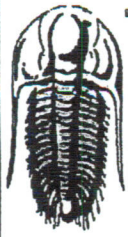
Test Start: 2011.04.24 @ 15:20:00

## Tool Information

Drill Pipe:	Length: 3469.00 ft	Diameter: 3.80 inches	Volume: 48.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.25 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3598.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3583.00	
Hydraulic tool	5.00			3588.00	
Packer	5.00			3593.00	20.00 Bottom Of Top Packer
Packer	5.00			3598.00	
Stubb	1.00			3599.00	
Recorder	0.00	6752	Inside	3599.00	
Recorder	0.00	6741	Outside	3599.00	
Perforations	18.00			3617.00	
Bullnose	3.00			3620.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Schemper #1-6

PO Box 428  
Logan, KS 67646

6-4s-21w Norton, KS

Job Ticket: 040772      DST#: 3

ATTN: Richard Bell

Test Start: 2011.04.24 @ 15:20:00

## 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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.005

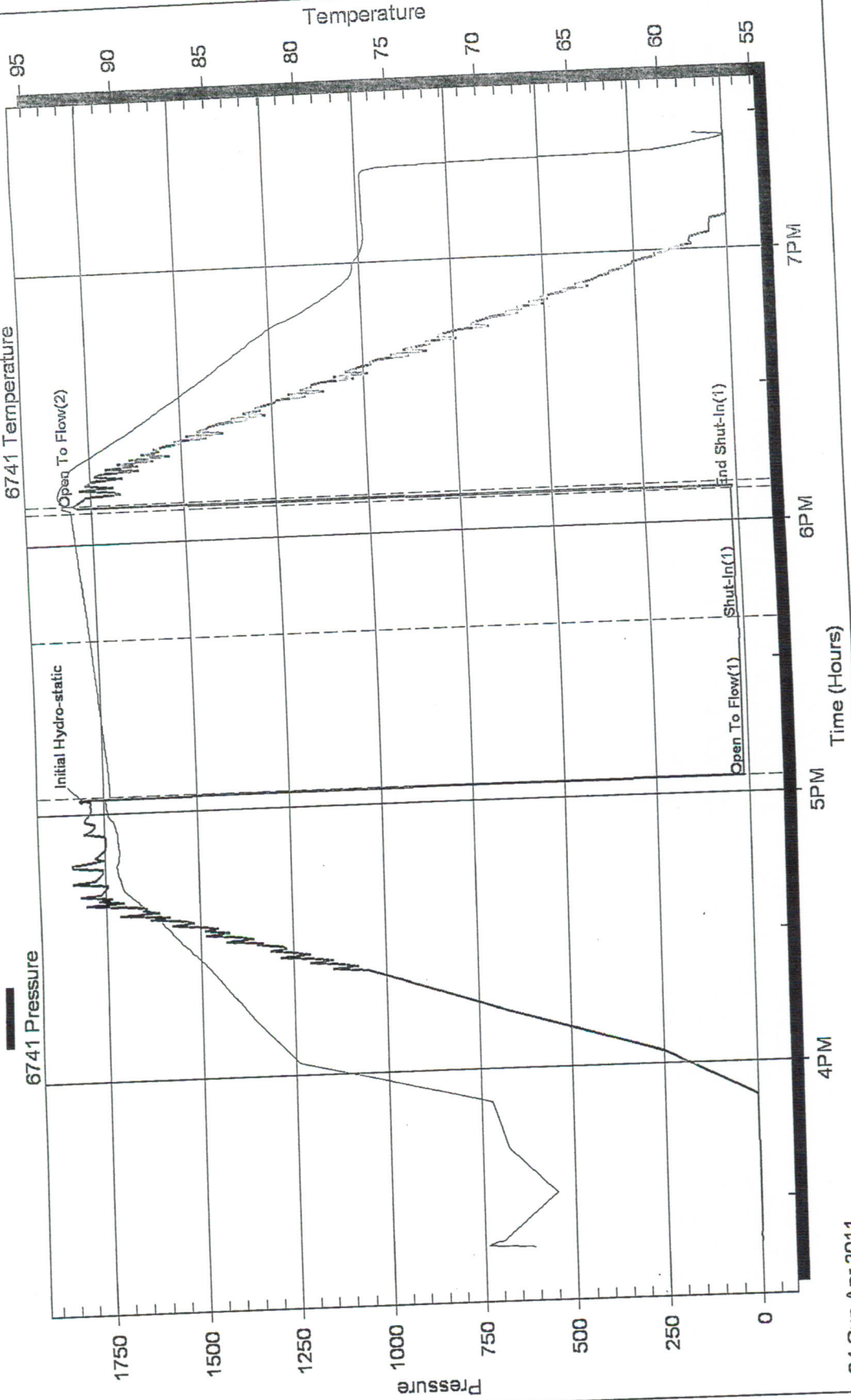
Total Length: 1.00 ft      Total Volume: 0.005 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



24 Sun Apr 2011

Ref. No: 040772

Trilobite Testing, Inc