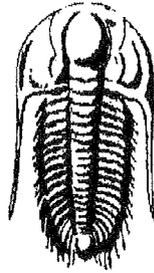


15-163-23764

17-7s-19w

IND



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**17 7 19 Rooks-Ks**

**Witmer # 2-17**

Start Date: 2008.09.07 @ 18:26:32

End Date: 2008.09.07 @ 23:17:32

Job Ticket #: 33103                      DST #: 1

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WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Baird Oil Co LLC

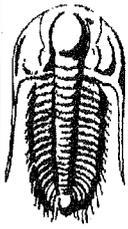
Witmer # 2-17

17 7 19 Rooks-Ks

DST # 1

Topoka

2008.09.07



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

ATTN: Jim Baird

Job Ticket: 33103

**DST#: 1**

Test Start: 2008.09.07 @ 18:26:32

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:01:32  
 Time Test Ended: 23:17:32

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 38

Interval: **2953.00 ft (KB) To 2970.00 ft (KB) (TVD)**  
 Total Depth: 2970.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1948.00 ft (KB)  
 1943.00 ft (CF)  
 KB to GR/CF: 5.00 ft

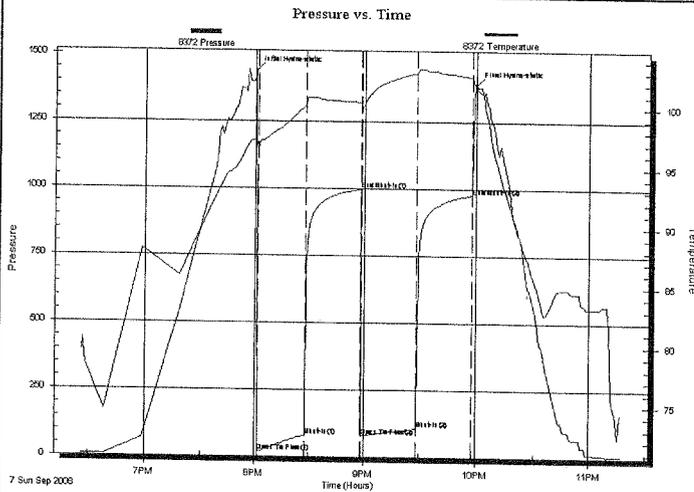
## Serial #: 8372

Inside

Press@RunDepth: 106.23 psig @ 2954.00 ft (KB)  
 Start Date: 2008.09.07 End Date: 2008.09.07  
 Start Time: 18:26:33 End Time: 23:17:32

Capacity: 7000.00 psig  
 Last Calb.: 2008.09.07  
 Time On Btm: 2008.09.07 @ 20:00:32  
 Time Off Btm: 2008.09.07 @ 21:59:32

TEST COMMENT: IF-Weak building to 5"  
 FF-Weak building to 1/2"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1436.15	97.40	Initial Hydro-static
1	16.43	96.64	Open To Flow (1)
27	77.14	100.29	Shut-In(1)
58	995.76	100.53	End Shut-In(1)
58	78.38	100.07	Open To Flow (2)
88	106.23	102.96	Shut-In(2)
117	975.71	102.67	End Shut-In(2)
119	1387.08	101.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	Mdy Wtr	1.48

## Gas Rates

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



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

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33103

**DST#: 1**

ATTN: Jim Baird

Test Start: 2008.09.07 @ 18:26:32

**Tool Information**

Drill Pipe:	Length: 2831.00 ft	Diameter: 3.80 inches	Volume: 39.71 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<b>Total Volume: 40.31 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2953.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

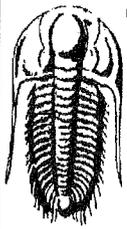
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2933.00	
Shut In Tool	5.00			2938.00	
Hydraulic tool	5.00			2943.00	
Packer	5.00			2948.00	21.00 Bottom Of Top Packer
Packer	5.00			2953.00	
Stubb	1.00			2954.00	
Recorder	0.00	8372	Inside	2954.00	
Recorder	0.00	8368	Outside	2954.00	
Perforations	13.00			2967.00	
Bullnose	3.00			2970.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

ATTN: Jim Baird

Job Ticket: 33103

**DST#: 1**

Test Start: 2008.09.07 @ 18:26:32

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.37 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 65000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
185.00	Mdy Wtr	1.484

Total Length: 185.00 ft      Total Volume: 1.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

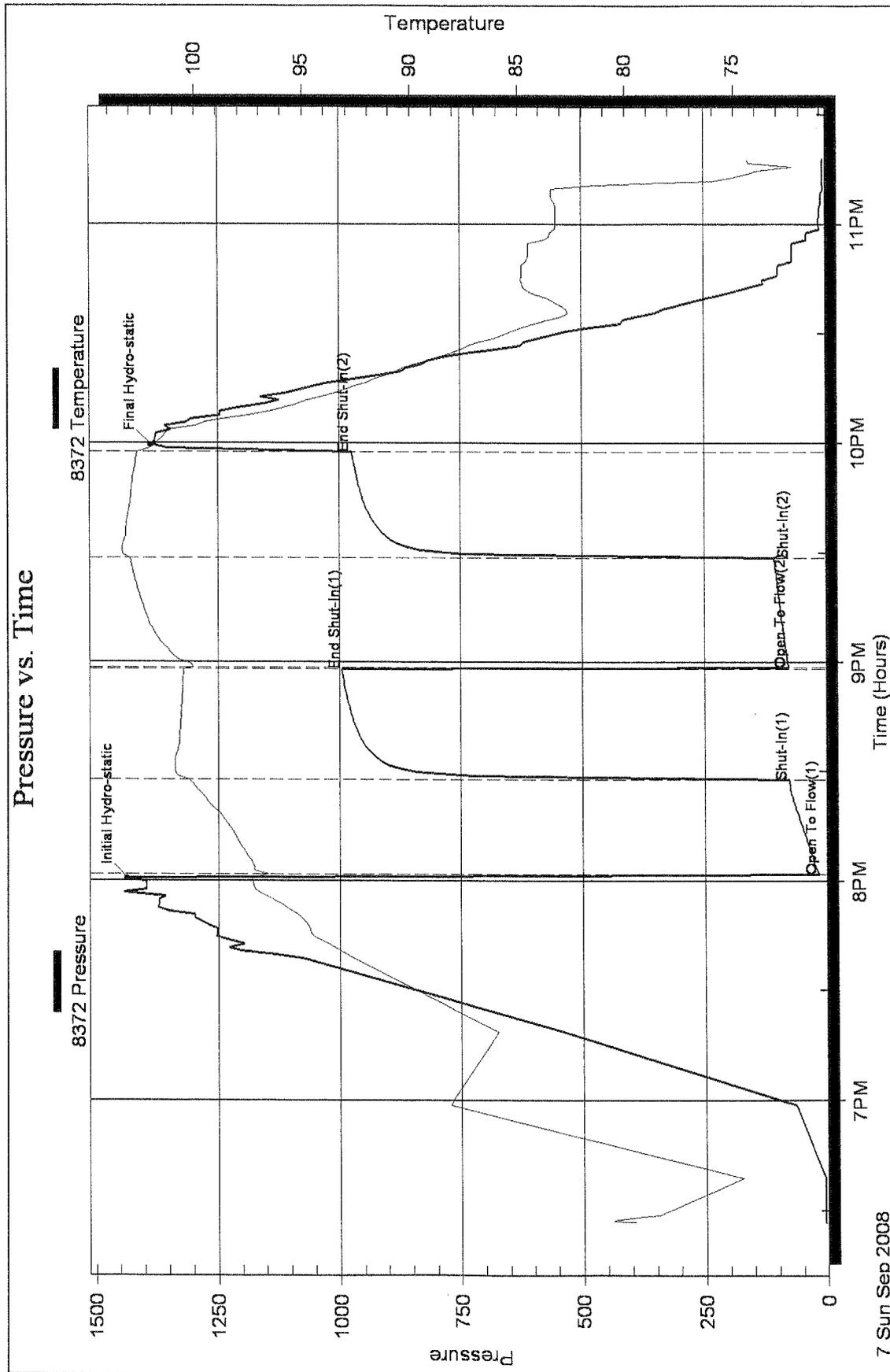
Serial #:

Laboratory Name:

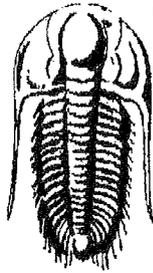
Laboratory Location:

Recovery Comments: Rw .11 @ 80 = 65000ppm

### Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Baird Oil Co LLC**

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**17 7 19 Rooks-Ks**

**Witmer # 2-17**

Start Date: 2008.09.08 @ 07:20:43

End Date: 2008.09.08 @ 11:57:43

Job Ticket #: 33104                      DST #: 2

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Baird Oil Co LLC

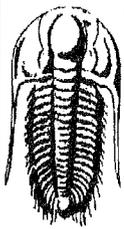
Witmer # 2-17

17 7 19 Rooks-Ks

DST # 2

Oread

2008.09.08



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33104      **DST#: 2**

ATTN: Jim Baird

Test Start: 2008.09.08 @ 07:20:43

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No      Whipstock:      ft (KB)

Time Tool Opened: 08:42:43

Time Test Ended: 11:57:43

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

**Interval: 3073.00 ft (KB) To 3090.00 ft (KB) (TVD)**

Total Depth: 3090.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches      Hole Condition: Good

Reference Elevations: 1948.00 ft (KB)

1943.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8372      Inside**

Press@RunDepth: 118.36 psig @ 3074.00 ft (KB)

Start Date: 2008.09.08

End Date:

2008.09.08

Start Time: 07:20:44

End Time:

11:57:43

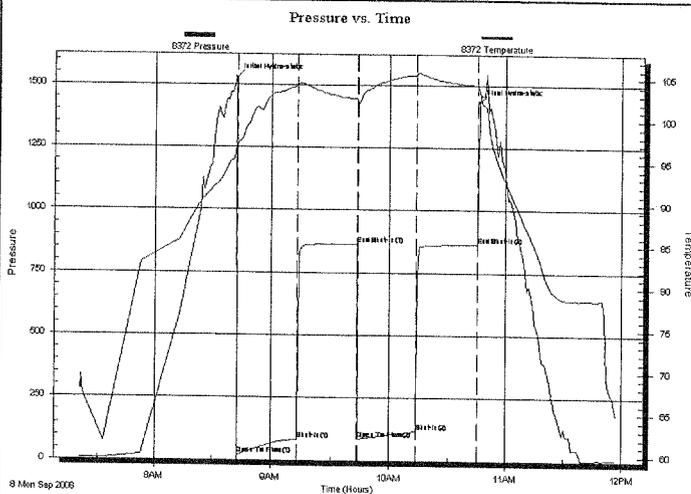
Capacity: 7000.00 psig

Last Calib.: 2008.09.08

Time On Btm: 2008.09.08 @ 08:42:13

Time Off Btm: 2008.09.08 @ 10:46:13

TEST COMMENT: IF-Weak building to 2 1/2"  
FF-Weak building to 1/2"



## PRESSURE SUMMARY

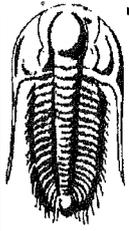
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.55	97.06	Initial Hydro-static
1	21.18	96.76	Open To Flow (1)
31	84.70	104.10	Shut-In(1)
61	864.85	102.58	End Shut-In(1)
62	87.46	102.01	Open To Flow (2)
92	118.36	105.34	Shut-In(2)
123	863.82	104.23	End Shut-In(2)
124	1431.00	103.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mdy Wtr w/ show of heavy oil in top of	1.41
0.00	tool	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33104

**DST#: 2**

ATTN: Jim Baird

Test Start: 2008.09.08 @ 07:20:43

**Tool Information**

Drill Pipe:	Length: 2956.00 ft	Diameter: 3.80 inches	Volume: 41.46 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 42.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3073.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 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			3053.00	
Shut In Tool	5.00			3058.00	
Hydraulic tool	5.00			3063.00	
Packer	5.00			3068.00	21.00 Bottom Of Top Packer
Packer	5.00			3073.00	
Stubb	1.00			3074.00	
Recorder	0.00	8372	Inside	3074.00	
Recorder	0.00	8368	Outside	3074.00	
Perforations	13.00			3087.00	
Bullnose	3.00			3090.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				

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**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33104

**DST#: 2**

ATTN: Jim Baird

Test Start: 2008.09.08 @ 07:20:43

**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:

70000 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: 700.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
180.00	Mdy Wtr w/ show of heavy oil in top of	1.414
0.00	tool	0.000

Total Length: 180.00 ft      Total Volume: 1.414 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

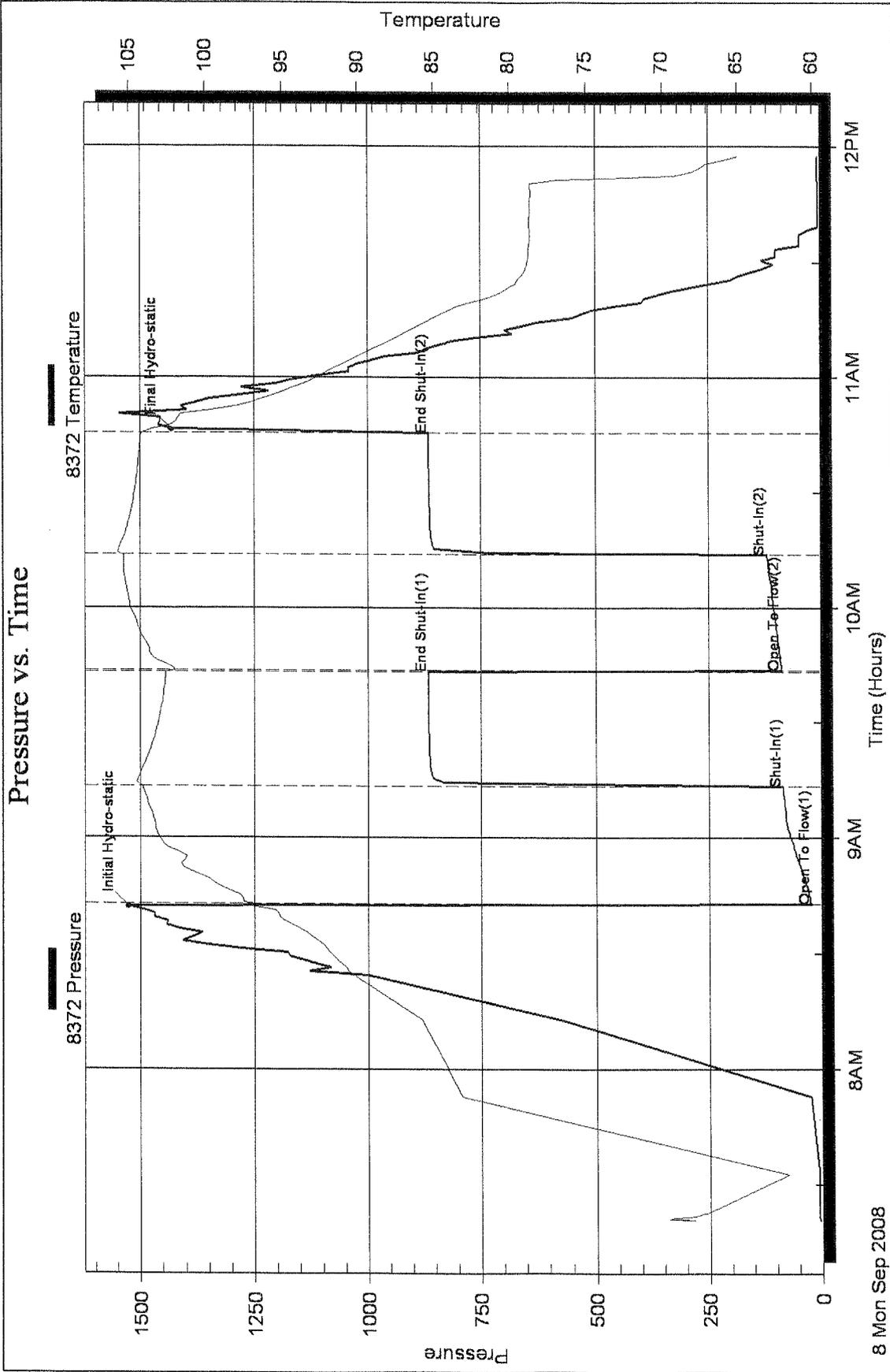
Serial #:

Laboratory Name:

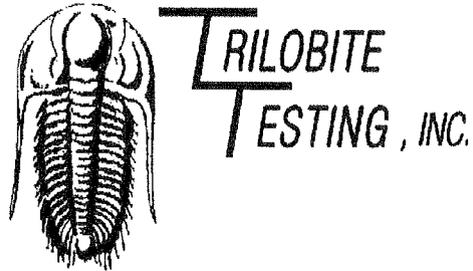
Laboratory Location:

Recovery Comments: Rw .08 @ 80 = 70000ppm

# Pressure vs. Time



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## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**17 7 19 Rooks-Ks**

**Witmer # 2-17**

Start Date: 2008.09.08 @ 17:56:23

End Date: 2008.09.08 @ 23:45:23

Job Ticket #: 33105                      DST #: 3

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33105

**DST#: 3**

ATTN: Jim Baird

Test Start: 2008.09.08 @ 17:56:23

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:22:53

Time Test Ended: 23:45:23

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

**Interval: 3135.00 ft (KB) To 3162.00 ft (KB) (TVD)**

Total Depth: 3162.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1948.00 ft (KB)

1943.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8372 Inside**

Press@RunDepth: 117.02 psig @ 3136.00 ft (KB)

Start Date: 2008.09.08

End Date:

2008.09.08

Capacity: 7000.00 psig

Last Callb.: 2008.09.08

Start Time: 17:56:24

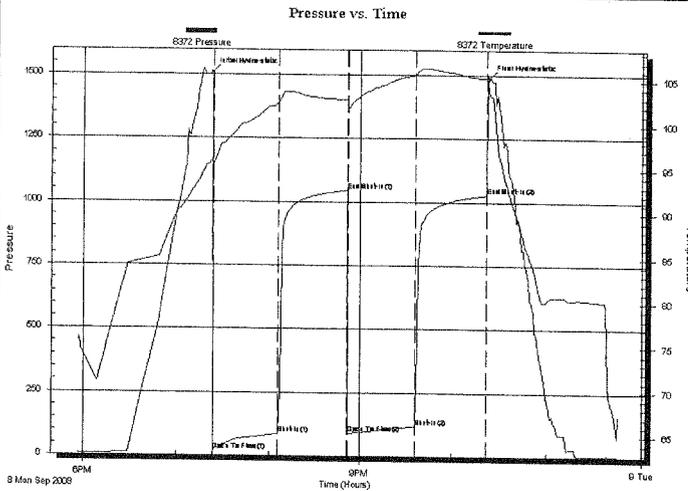
End Time:

23:45:23

Time On Btm: 2008.09.08 @ 19:22:23

Time Off Btm: 2008.09.08 @ 22:23:23

**TEST COMMENT:** IF-Strong BOB in 18 min  
ISI-Weak steady surface blow  
FF-Strong BOB in 19 min  
FSI-Weak steady surface blow



## PRESSURE SUMMARY

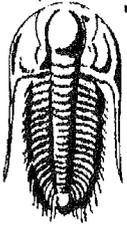
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1509.40	96.09	Initial Hydro-static
1	18.35	95.57	Open To Flow (1)
44	86.56	102.52	Shut-In(1)
89	1045.04	102.84	End Shut-In(1)
90	88.96	101.86	Open To Flow (2)
134	117.02	105.63	Shut-In(2)
180	1028.07	105.28	End Shut-In(2)
181	1490.88	103.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mdy Wtr	0.30
70.00	MCGsyO 30%m 10%g 60%o	0.42
125.00	CGsyO 10%g 90%o	1.75
0.00	415 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33105

**DST#: 3**

ATTN: Jim Baird

Test Start: 2008.09.08 @ 17:56:23

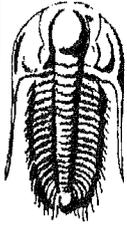
**Tool Information**

Drill Pipe:	Length: 3019.00 ft	Diameter: 3.80 inches	Volume: 42.35 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 42.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3135.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 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			3115.00	
Shut In Tool	5.00			3120.00	
Hydraulic tool	5.00			3125.00	
Packer	5.00			3130.00	21.00 Bottom Of Top Packer
Packer	5.00			3135.00	
Stubb	1.00			3136.00	
Recorder	0.00	8372	Inside	3136.00	
Recorder	0.00	8368	Outside	3136.00	
Perforations	24.00			3160.00	
Bullnose	3.00			3163.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33105

**DST#: 3**

ATTN: Jim Baird

Test Start: 2008.09.08 @ 17:56:23

**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: 70000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1100.00 ppm		
Filter Cake: inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	Mdy Wtr	0.295
70.00	MCGsyO 30%m 10%g 60%o	0.417
125.00	CGsyO 10%g 90%o	1.753
0.00	415 GIP	0.000

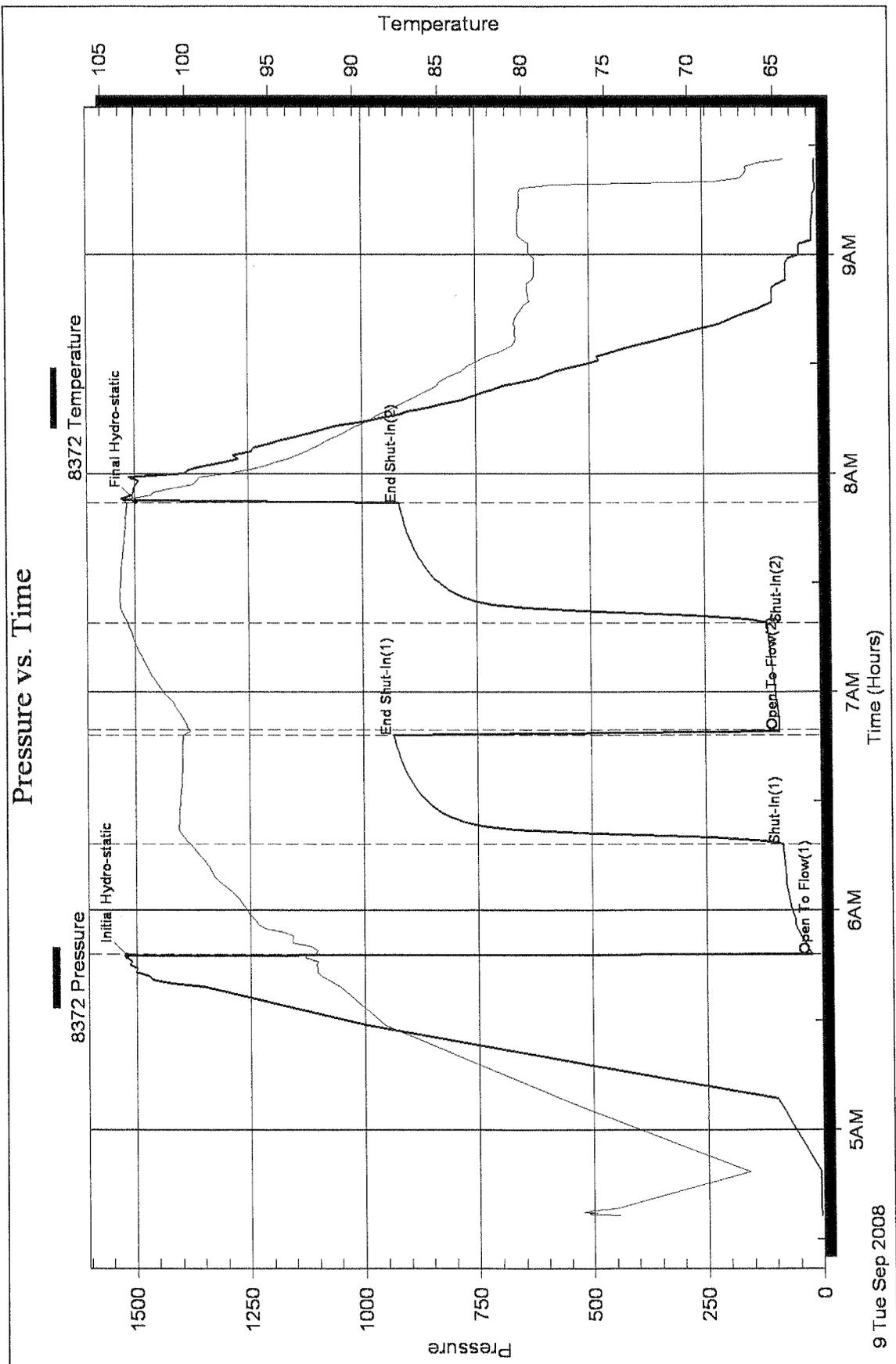
Total Length: 255.00 ft      Total Volume: 2.465 bbl

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

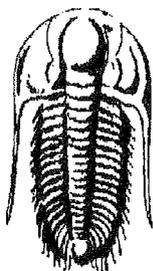
Laboratory Name:      Laboratory Location:

Recovery Comments: Rw .08 @ 80 = 70000ppm

### Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Baird Oil Co LLC**

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**17 7 19 Rooks-Ks**

**Witmer # 2-17**

Start Date: 2008.09.09 @ 04:36:27

End Date: 2008.09.09 @ 09:26:27

Job Ticket #: 33106                      DST #: 4

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Baird Oil Co LLC

Witmer # 2-17

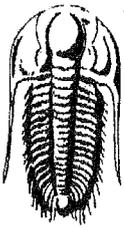
17 7 19 Rooks-Ks

DST # 4

A

LKC

2008.09.09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co LLC

Witmer # 2-17

Box 428  
Logan Ks 67646

17 7 19 Rooks-Ks

Job Ticket: 33106

DST#: 4

ATTN: Jim Baird

Test Start: 2008.09.09 @ 04:36:27

## GENERAL INFORMATION:

Formation: **A LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:47:57

Time Test Ended: 09:26:27

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3160.00 ft (KB) To 3190.00 ft (KB) (TVD)**

Total Depth: 3190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1948.00 ft (KB)

1943.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8372** Inside

Press@RunDepth: 114.17 psig @ 3161.00 ft (KB)

Start Date: 2008.09.09

End Date:

2008.09.09

Capacity: 7000.00 psig

Last Calib.: 2008.09.09

Start Time: 04:36:28

End Time:

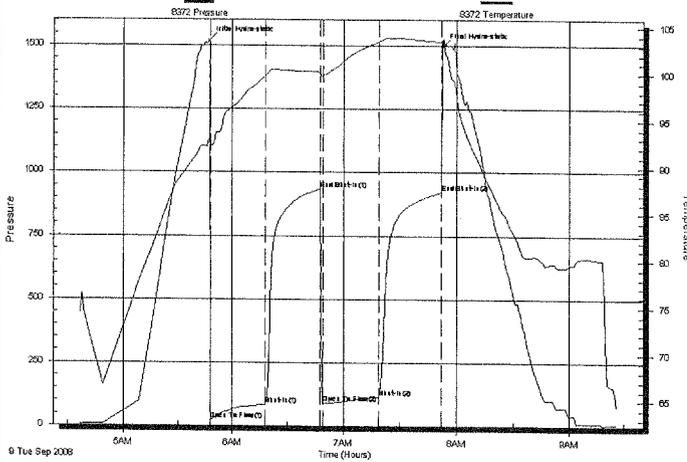
09:26:27

Time On Btm: 2008.09.09 @ 05:47:27

Time Off Btm: 2008.09.09 @ 07:52:27

TEST COMMENT: IF-Strong BOB in 30 min  
IS-Weak steady surface blow  
FF-Weak building to 6"  
FSI-Weak steady surface blow

Pressure vs. Time



## PRESSURE SUMMARY

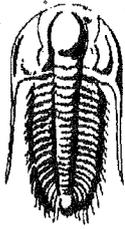
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1519.67	93.01	Initial Hydro-static
1	20.30	92.38	Open To Flow (1)
31	84.00	99.83	Shut-In(1)
61	933.57	100.27	End Shut-In(1)
62	88.90	99.88	Open To Flow (2)
92	114.17	103.46	Shut-In(2)
125	920.43	103.49	End Shut-In(2)
125	1496.68	103.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	SlitlyOCMdyWtr 5%o 75%w 20%m	0.59
60.00	OCSyM 10%g 30%o 60%m	0.82
45.00	CGsyO 10%g 90%o	0.63
0.00	200' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33106

**DST#: 4**

ATTN: Jim Baird

Test Start: 2008.09.09 @ 04:36:27

**Tool Information**

Drill Pipe:	Length: 3020.00 ft	Diameter: 3.80 inches	Volume: 42.36 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 42.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3160.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 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			3140.00	
Shut In Tool	5.00			3145.00	
Hydraulic tool	5.00			3150.00	
Packer	5.00			3155.00	21.00 Bottom Of Top Packer
Packer	5.00			3160.00	
Stubb	1.00			3161.00	
Recorder	0.00	8372	Inside	3161.00	
Recorder	0.00	8368	Outside	3161.00	
Perforations	26.00			3187.00	
Bullnose	3.00			3190.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>51.00</b>				

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33106

**DST#: 4**

ATTN: Jim Baird

Test Start: 2008.09.09 @ 04:36:27

## 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: 65000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 700.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Slightly OCMdy Wtr 5%o 75%w 20%m	0.590
60.00	OCgsyM 10%g 30%o 60%m	0.823
45.00	CGsyO 10%g 90%o	0.631
0.00	200' GIP	0.000

Total Length: 225.00 ft      Total Volume: 2.044 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

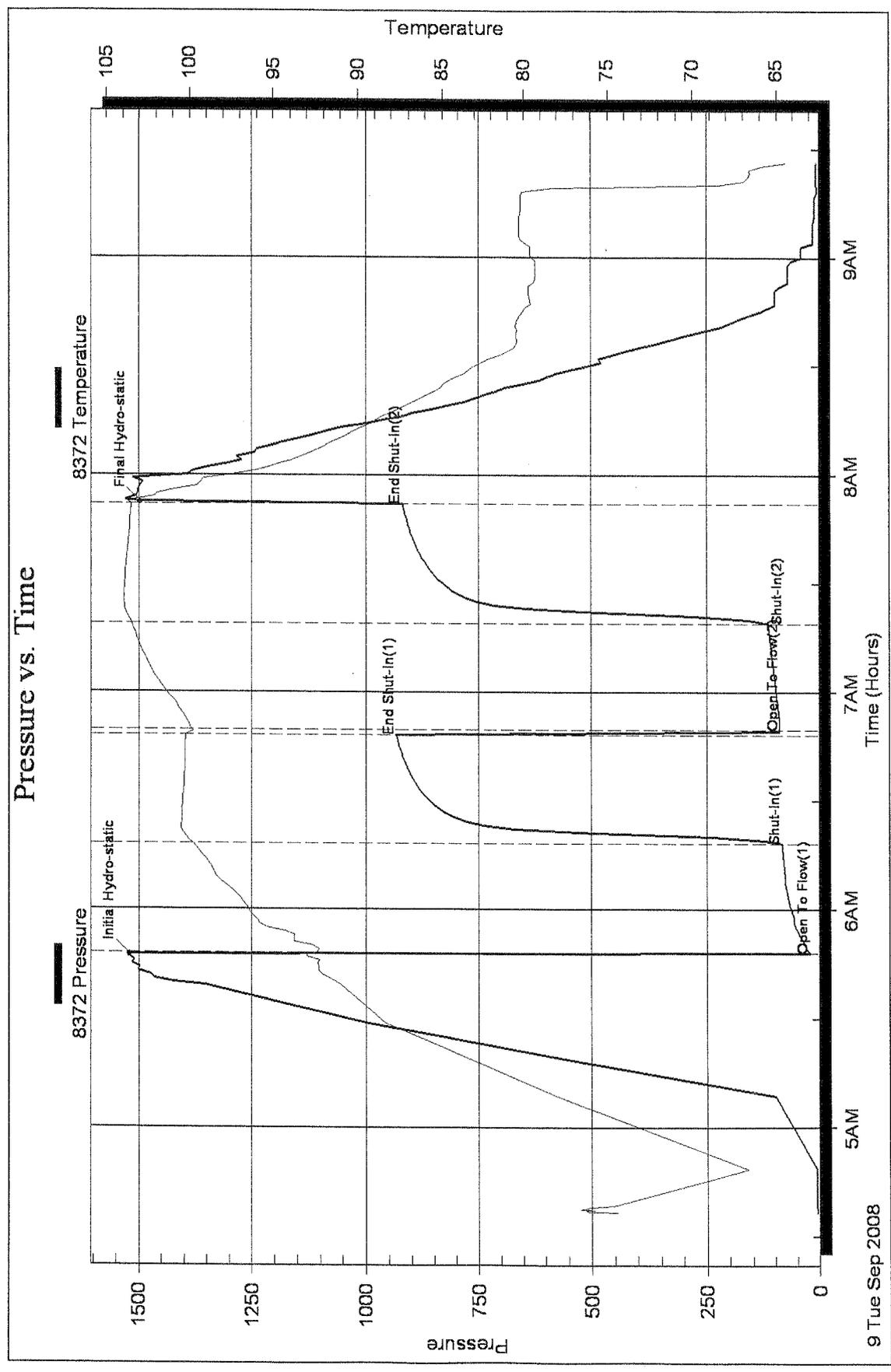
Serial #:

Laboratory Name:

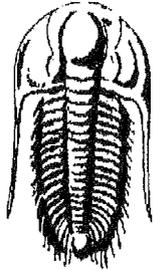
Laboratory Location:

Recovery Comments: Rw .11 @ 80 = 65000ppm

# Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**17 7 19 Rooks-Ks**

**Witmer # 2-17**

Start Date: 2008.09.09 @ 15:09:42

End Date: 2008.09.09 @ 20:36:42

Job Ticket #: 3307                      DST #: 5

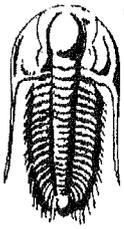
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**OCT 10 2008**

CONSERVATION DIVISION  
WICHITA, KS

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 Co LLC

Witmer # 2-17

Box 428  
Logan Ks 67646

17 7 19 Rooks-Ks

Job Ticket: 3307

DST#: 5

ATTN: Jim Baird

Test Start: 2008.09.09 @ 15:09:42

## GENERAL INFORMATION:

Formation: **C LKC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:51:12  
 Time Test Ended: 20:36:42

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 38

Interval: **3194.00 ft (KB) To 3220.00 ft (KB) (TVD)**  
 Total Depth: 3220.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1948.00 ft (KB)  
 1943.00 ft (CF)  
 KB to GR/CF: 5.00 ft

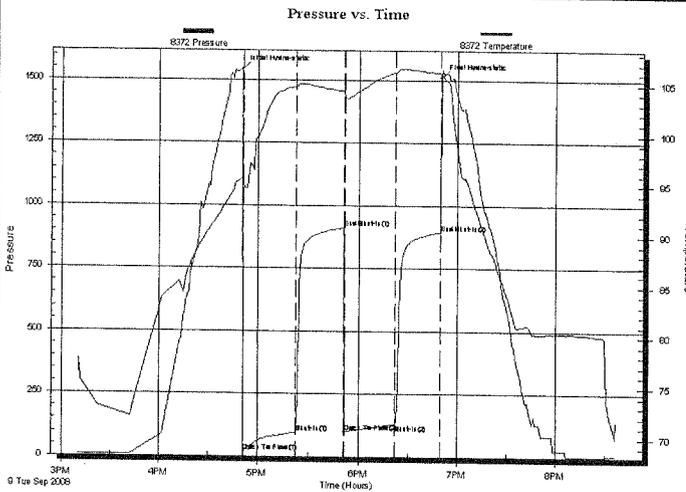
Serial #: **8372**

Inside

Press@RunDepth: 129.63 psig @ 3195.00 ft (KB)  
 Start Date: 2008.09.09 End Date: 2008.09.09  
 Start Time: 15:09:43 End Time: 20:36:42

Capacity: 7000.00 psig  
 Last Calib.: 2008.09.09  
 Time On Btm: 2008.09.09 @ 16:50:42  
 Time Off Btm: 2008.09.09 @ 18:49:42

TEST COMMENT: IF-Strong BOB in 28 min  
 ISI-Weak surface blow after 11 min  
 FF-Weak building to 5"  
 FSI-No blow back



## PRESSURE SUMMARY

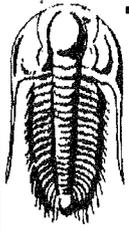
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.37	95.67	Initial Hydro-static
1	18.61	95.03	Open To Flow (1)
32	96.41	104.79	Shut-In (1)
60	910.94	104.37	End Shut-In (1)
61	99.56	103.88	Open To Flow (2)
91	129.63	106.23	Shut-In (2)
119	894.04	106.17	End Shut-In (2)
119	1508.84	106.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
225.00	Mdy Wtr	2.04
25.00	CO	0.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 3307

**DST#: 5**

ATTN: Jim Baird

Test Start: 2008.09.09 @ 15:09:42

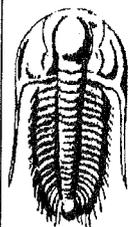
**Tool Information**

Drill Pipe:	Length: 3080.00 ft	Diameter: 3.80 inches	Volume: 43.20 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 43.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3194.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	47.00 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			3174.00	
Shut In Tool	5.00			3179.00	
Hydraulic tool	5.00			3184.00	
Packer	5.00			3189.00	21.00 Bottom Of Top Packer
Packer	5.00			3194.00	
Stubb	1.00			3195.00	
Recorder	0.00	8372	Inside	3195.00	
Recorder	0.00	8368	Outside	3195.00	
Perforations	22.00			3217.00	
Bullnose	3.00			3220.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				

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TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

ATTN: Jim Baird

Job Ticket: 3307

**DST#: 5**

Test Start: 2008.09.09 @ 15:09:42

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.38 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

34 deg API

80000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
225.00	Mdy Wtr	2.045
25.00	CO	0.351

Total Length: 250.00 ft      Total Volume: 2.396 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

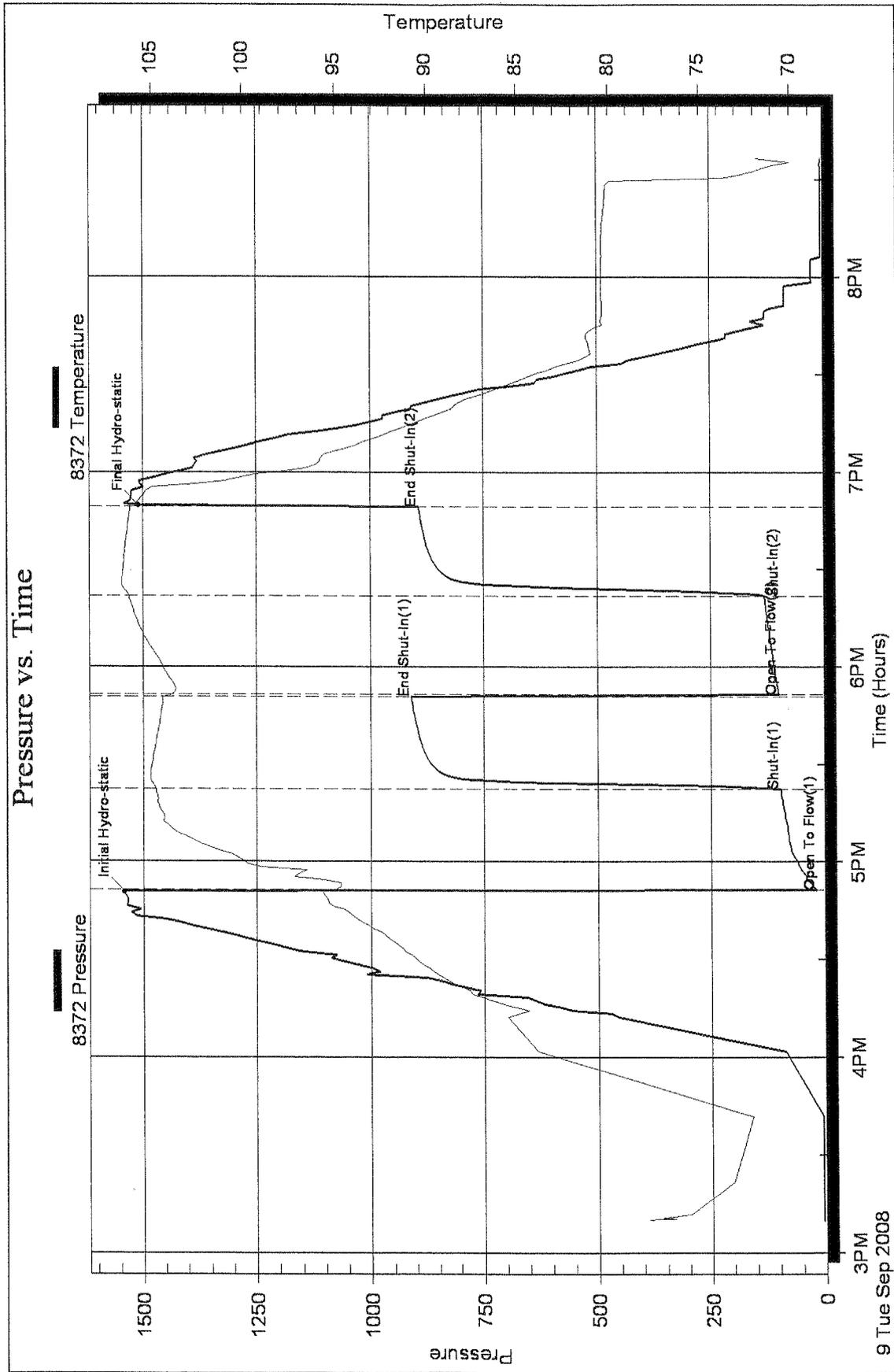
Serial #:

Laboratory Name:

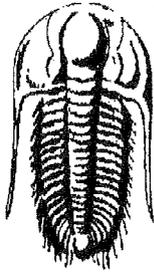
Laboratory Location:

Recovery Comments: Rw .09 80 = 80000ppm

# Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**17 7 19 Rooks-Ks**

**Witmer # 2-17**

Start Date: 2008.09.10 @ 02:05:15

End Date: 2008.09.10 @ 05:44:45

Job Ticket #: 33108                      DST #: 6

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**OCT 10 2008**

CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Baird Oil Co LLC

Witmer # 2-17

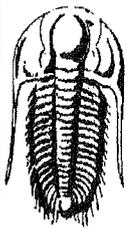
17 7 19 Rooks-Ks

DST # 6

D

LKC

2008.09.10



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co LLC

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Witmer # 2-17**

**17 7 19 Rooks-Ks**

Job Ticket: 33108

**DST#: 6**

Test Start: 2008.09.10 @ 02:05:15

## GENERAL INFORMATION:

Formation: **D LKC**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 03:27:45  
 Time Test Ended: 05:44:45

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 38

Interval: **3217.00 ft (KB) To 3238.00 ft (KB) (TVD)**  
 Total Depth: 3238.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1948.00 ft (KB)  
 1943.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8372

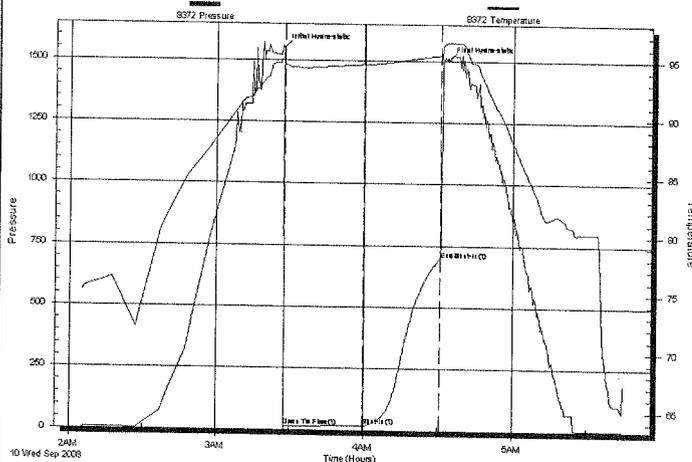
Inside

Press@RunDepth: 17.95 psig @ 3218.00 ft (KB)  
 Start Date: 2008.09.10 End Date: 2008.09.10  
 Start Time: 02:05:16 End Time: 05:44:45

Capacity: 7000.00 psig  
 Last Calib.: 2008.09.10  
 Time On Btm: 2008.09.10 @ 03:27:15  
 Time Off Btm: 2008.09.10 @ 04:33:45

TEST COMMENT: IF-Weak died in 10 min

Pressure vs. Time



## PRESSURE SUMMARY

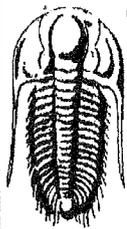
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.47	95.17	Initial Hydro-static
1	13.87	94.57	Open To Flow (1)
33	17.95	94.64	Shut-In(1)
64	695.88	95.45	End Shut-In(1)
67	1504.23	96.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	DM	0.01

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

ATTN: Jim Baird

Job Ticket: 33108

**DST#: 6**

Test Start: 2008.09.10 @ 02:05:15

## Tool Information

Drill Pipe:	Length: 3080.00 ft	Diameter: 3.80 inches	Volume: 43.20 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 43.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3217.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 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
Change Over Sub	1.00			3197.00	
Shut In Tool	5.00			3202.00	
Hydraulic tool	5.00			3207.00	
Packer	5.00			3212.00	21.00 Bottom Of Top Packer
Packer	5.00			3217.00	
Stubb	1.00			3218.00	
Recorder	0.00	8372	Inside	3218.00	
Recorder	0.00	8368	Outside	3218.00	
Perforations	17.00			3235.00	
Bullnose	3.00			3238.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				

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**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33108

**DST#: 6**

ATTN: Jim Baird

Test Start: 2008.09.10 @ 02:05:15

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.37 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	DM	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

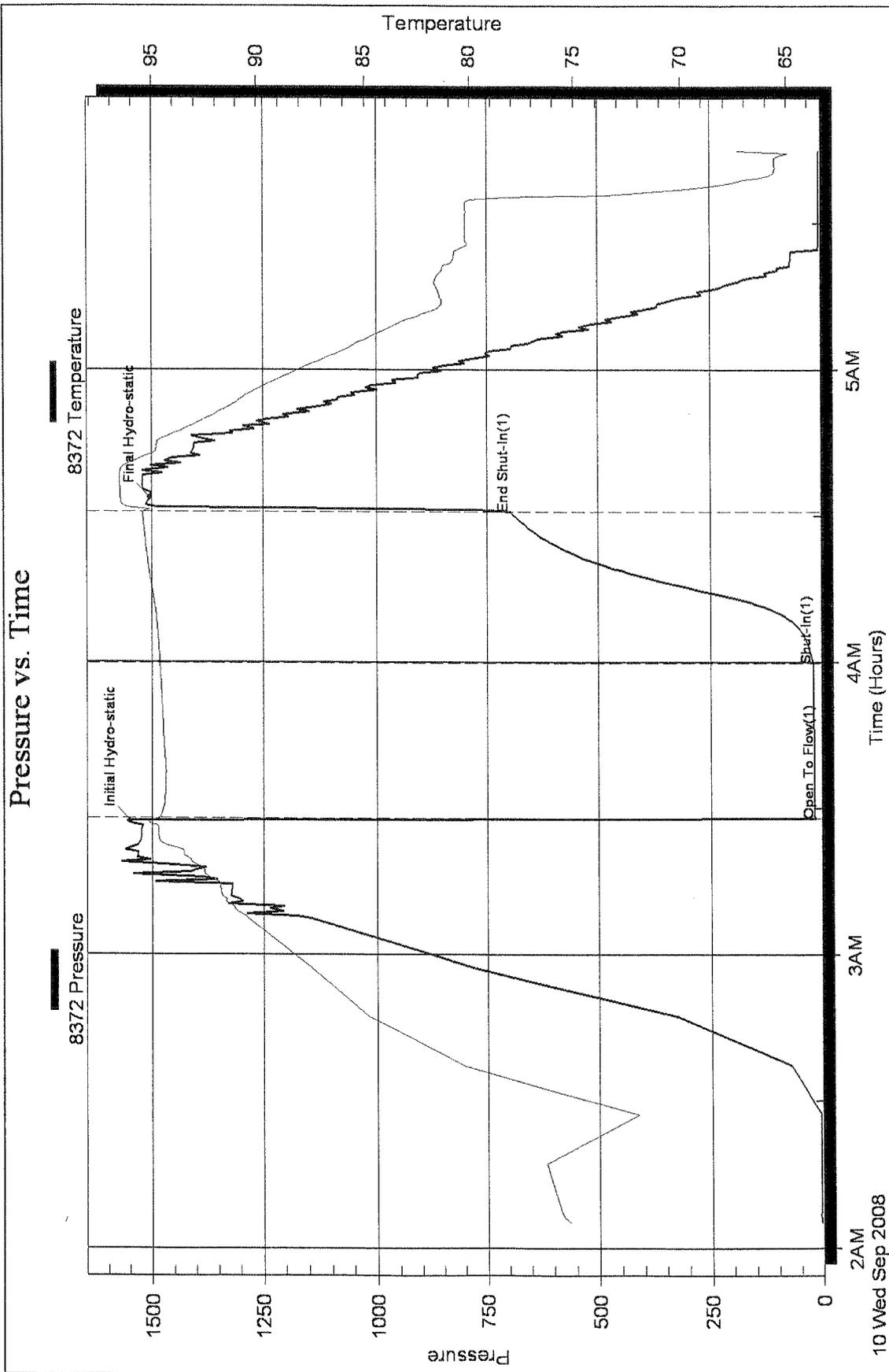
Serial #:

Laboratory Name:

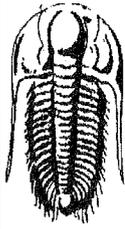
Laboratory Location:

Recovery Comments:

# Pressure vs. Time



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8372 (1)  
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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co LLC

Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Witmer # 2-17**

**17 7 19 Rooks-Ks**

Job Ticket: 33109

**DST#: 7**

Test Start: 2008.09.10 @ 18:05:41

## GENERAL INFORMATION:

Formation: **I-J**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 19:55:41  
 Time Test Ended: 22:07:11

Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **38**

Interval: **3310.00 ft (KB) To 3350.00 ft (KB) (TVD)**  
 Total Depth: **3350.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1948.00 ft (KB)**  
**1943.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

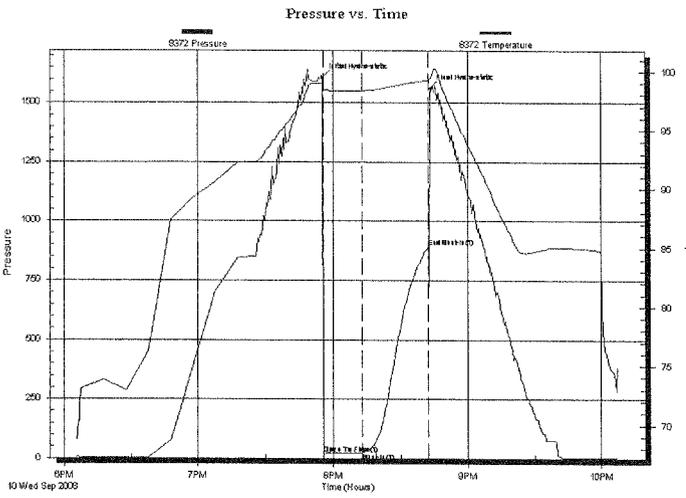
**Serial #: 8372**

**Inside**

Press@RunDepth: **23.82 psig @ 3311.00 ft (KB)**  
 Start Date: **2008.09.10** End Date: **2008.09.10**  
 Start Time: **18:05:42** End Time: **22:07:11**

Capacity: **7000.00 psig**  
 Last Calib.: **2008.09.10**  
 Time On Btm: **2008.09.10 @ 19:55:11**  
 Time Off Btm: **2008.09.10 @ 20:43:11**

TEST COMMENT: IF-Weak died in 5 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.50	99.02	Initial Hydro-static
1	21.01	98.35	Open To Flow(1)
18	23.82	98.38	Shut-In(1)
47	893.22	99.28	End Shut-In(1)
48	1561.36	99.51	Final Hydro-static

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## Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM	0.01

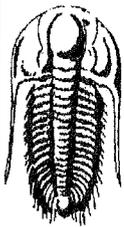
## Gas Rates

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

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CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co LLC

**Witmer # 2-17**

Box 428  
Logan Ks 67646

**17 7 19 Rooks-Ks**

Job Ticket: 33109

**DST#: 7**

ATTN: Jim Baird

Test Start: 2008.09.10 @ 18:05:41

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	DM	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

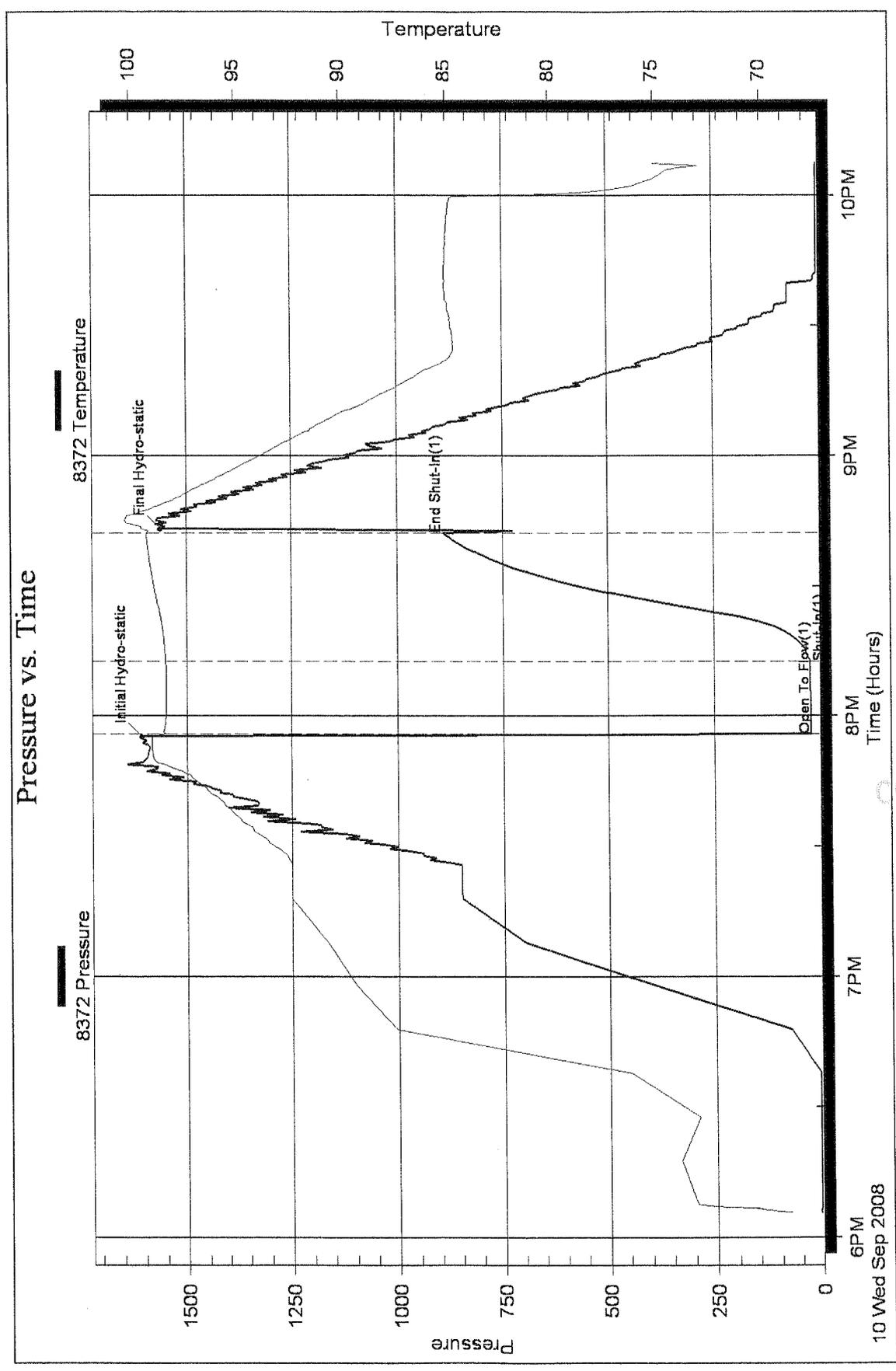
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



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