

CONFIDENTIAL

KCC

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OCT 27 2003

CONFIDENTIAL

DST's  
Atkisson #1  
19-7S-20W

RECEIVED  
OCT 31 2003  
KCC WICHITA

DST #1 (3201-3245)

45-45-45-45

IF: 27-227  
FF: 199-321

ISIP: 925#  
FSIP: 909#

Rec: 120' Mud with a show of oil  
540' Water

DST #2 (3289-3319)

30-45-30-45

IF: 304-488  
FF: 485-654

ISIP: 918#  
FSIP: 885#

Rec: 300' Gas  
1880' Clean Gassy Oil  
120' Gassy Mdy Oil

DST #3 (3317-3352)

45-45-45-45

IF: 19-58  
FF: 69-79

ISIP: 784#  
FSIP: 798#

Rec: 150' GIP  
60' CGO  
90' MGO

DST #4 (3344-3372)

30-45-30-45

IF: 29-157  
FF: 165-238

ISIP: 901#  
FSIP: 884#

Rec: 60' GIP  
35' CGO  
270' O & GCMW  
180' Wtr. w/ show of oil

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-2-

OCT 27 2003

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DST #5 (3369-3389)

30-30-10-0

IF: 13-22  
FF: 26-27

ISIP: 820#  
FSIP: -

Rec: 60' GIP  
2' CI Oil  
5' OCM

RECEIVED

OCT 31 2003

KCC WICHITA

DST #6 (3386-3422)

30-45-30-45

IF: 94-318  
FF: 329-462

ISIP: 762#  
FSIP: 755#

Rec: 120' GIP  
30' CO  
140' OCMW  
720' wtr w/ show of oil

DST #7 (3458-3494)

30-30-0-0

IF: 18-15  
FF: -

ISIP: 45#  
FSIP: -

Rec: 1' Mud

DST #8( 3487-3520)

30-30-0-0

IF: 17-23  
FF: -

ISIP: 633#  
FSIP: -

Rec: 5' OCM

DST #9 (3512-3578)

45-45-45-45

IF: 25-60  
FF: 73-75

ISIP: 918#  
FSIP: 840#

Rec: 85' Clean Oil  
100' OCM



## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.16 @ 02:32:16

End Date: 2003.09.16 @ 09:04:45

Job Ticket #: 18686                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18686

**DST#: 1**

ATTN: Jim Baird

Test Start: 2003.09.16 @ 02:32:16

## GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 04:24:45

Time Test Ended: 09:04:45

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3201.00 ft (KB) To 3245.00 ft (KB) (TVD)**

Total Depth: **3245.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2094.00 ft (KB)**

**2089.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6668** **Inside**

Press@RunDepth: **321.18 psig @ 3202.01 ft (KB)**

Start Date: **2003.09.16**

End Date: **2003.09.16**

Capacity: **7000.00 psig**

Last Calib.: **2003.09.16**

Start Time: **02:32:16**

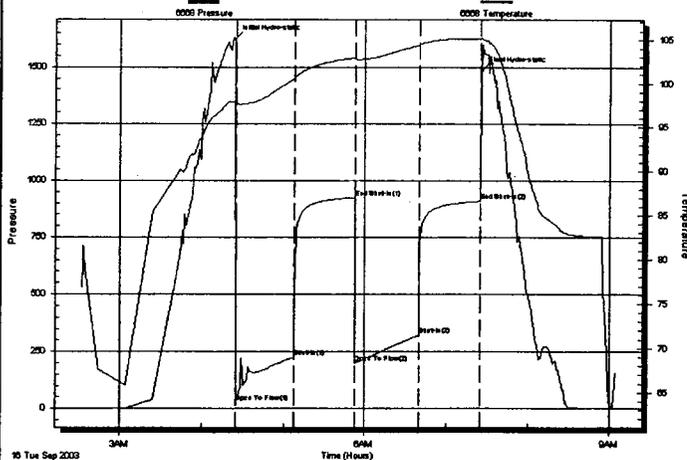
End Time: **09:04:45**

Time On Btm: **2003.09.16 @ 04:24:15**

Time Off Btm: **2003.09.16 @ 07:25:45**

**TEST COMMENT:** FFP-wk to strg in 23 min  
FFP-wk to gd 1/4" bl to 6"bl  
Times 45-45-45-45  
no bl on shut-in

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.44	97.88	Initial Hydro-static
1	27.69	97.69	Open To Flow (1)
44	227.29	100.52	Shut-In(1)
89	925.19	102.90	End Shut-In(1)
89	199.43	102.77	Open To Flow (2)
136	321.18	104.32	Shut-In(2)
181	909.49	105.13	End Shut-In(2)
182	1486.63	105.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 40% mud 60% water w / show of oil	0.59
540.00	water RW .15@70F	7.57

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18686      **DST#: 1**

ATTN: Jim Baird

Test Start: 2003.09.16 @ 02:32:16

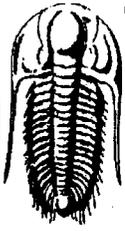
### Tool Information

Drill Pipe:	Length: 3079.00 ft	Diameter: 3.80 inches	Volume: 43.19 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3201.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.02 ft			
Tool Length:	67.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3179.00	
Shut In Tool	5.00			3184.00	
Hydraulic tool	5.00			3189.00	
Safety Joint	2.00			3191.00	
Packer	5.00			3196.00	23.00      Bottom Of Top Packer
Packer	5.00			3201.00	
Stubb	1.00			3202.00	
Recorder	0.01	6668	Inside	3202.01	
Perforations	40.00			3242.01	
Recorder	0.01	11085	Outside	3242.02	
Bullnose	3.00			3245.02	44.02      Bottom Packers & Anchor

**Total Tool Length: 67.02**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18686

**DST#: 1**

ATTN: Jim Baird

Test Start: 2003.09.16 @ 02:32:16

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.10 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 40% mud 60% water w / show of oil	0.590
540.00	water RW .15@70F	7.575

Total Length: 660.00 ft

Total Volume: 8.165 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

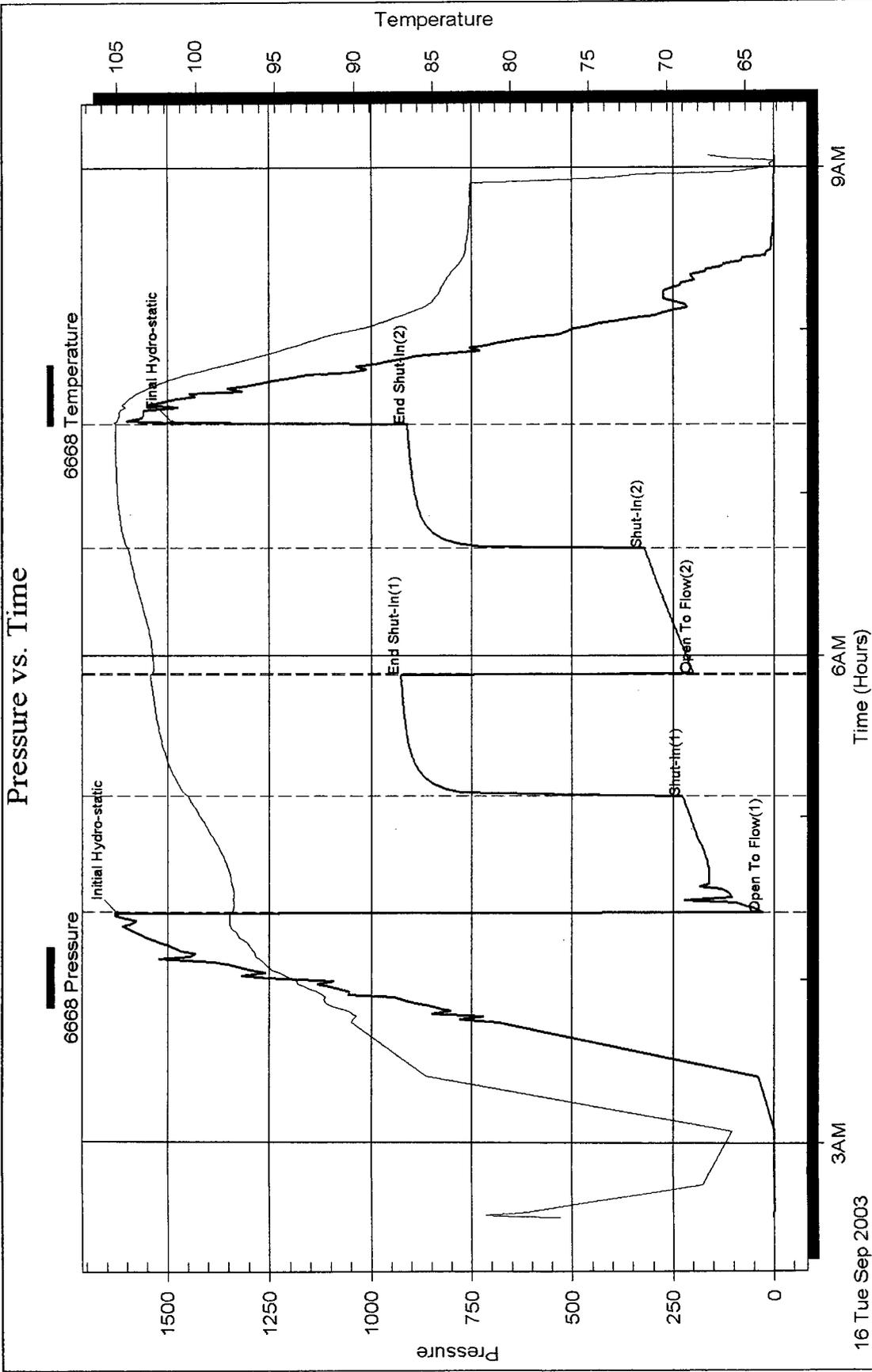
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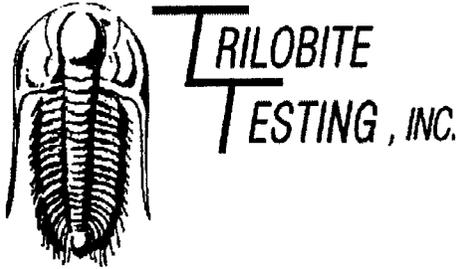
Baird Oil Company LLC

19-7s-20w Rocks Ks

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.16 @ 19:38:10

End Date: 2003.09.17 @ 03:06:09

Job Ticket #: 18687      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Atkisson #1**

**19-7s-20w Rooks Ks**

Job Ticket: 18687

**DST#: 2**

Test Start: 2003.09.16 @ 19:38:10

## GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 21:35:39

Time Test Ended: 03:06:09

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3289.00 ft (KB) To 3319.00 ft (KB) (TVD)**

Total Depth: **3319.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2094.00 ft (KB)**

**2089.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6668**

**Inside**

Press@RunDepth: **654.02 psig @ 3290.01 ft (KB)**

Start Date: **2003.09.16**

End Date: **2003.09.17**

Capacity: **7000.00 psig**

Last Calib.: **2003.09.17**

Start Time: **19:38:10**

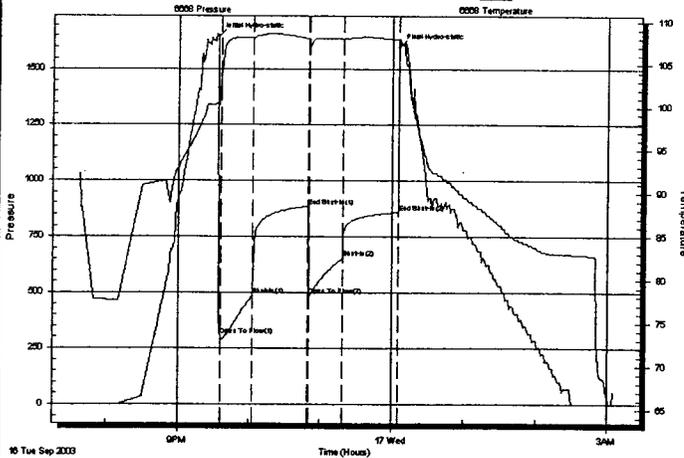
End Time: **03:06:09**

Time On Btrn: **2003.09.16 @ 21:33:39**

Time Off Btrn: **2003.09.17 @ 00:05:39**

TEST COMMENT: **FFP-Strg bl in 1 min**  
**FFP-Strg bl in 1 min**  
**Times 30-45-30-45**  
**3"bl bk on shut-in**

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.10	100.36	Initial Hydro-static
2	304.78	102.70	Open To Flow (1)
30	488.80	108.04	Shut-In(1)
76	885.04	107.93	End Shut-In(1)
77	485.89	107.71	Open To Flow (2)
105	654.02	107.90	Shut-In(2)
152	858.72	107.80	End Shut-In(2)
152	1598.89	107.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MGO 20%gas20%mud 60%oil	0.59
1880.00	Clean Oil	26.37
0.00	300 Gip	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18687

**DST#: 2**

ATTN: Jim Baird

Test Start: 2003.09.16 @ 19:38:10

### Tool Information

Drill Pipe:	Length: 3177.00 ft	Diameter: 3.80 inches	Volume: 44.56 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 45.15 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3289.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.02 ft			
Tool Length:	53.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Safety Joint	2.00			3279.00	
Packer	5.00			3284.00	23.00 Bottom Of Top Packer
Packer	5.00			3289.00	
Stubb	1.00			3290.00	
Recorder	0.01	6668	Inside	3290.01	
Perforations	26.00			3316.01	
Recorder	0.01	11085	Outside	3316.02	
Bullnose	3.00			3319.02	30.02 Bottom Packers & Anchor

**Total Tool Length: 53.02**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18687

**DST#: 2**

ATTN: Jim Baird

Test Start: 2003.09.16 @ 19:38:10

### 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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.31 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MGO 20%gas20%mud 60%oil	0.590
1880.00	Clean Oil	26.371
0.00	300 Gip	0.000

Total Length: 2000.00 ft      Total Volume: 26.961 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

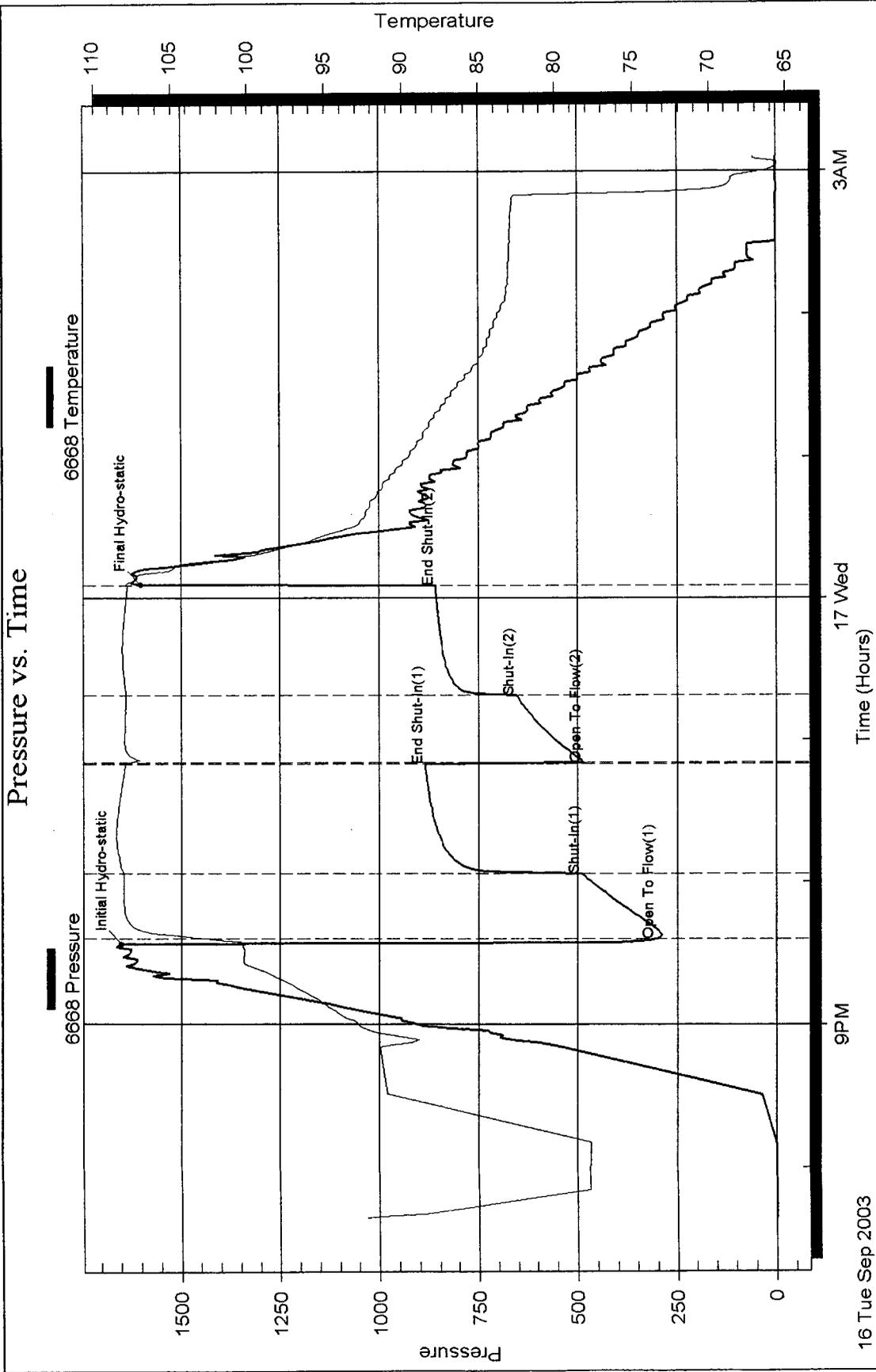
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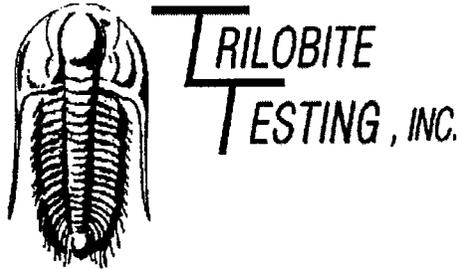
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.17 @ 10:28:33

End Date: 2003.09.17 @ 17:00:02

Job Ticket #: 18688      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Atkisson #1**

**19-7s-20w Rooks Ks**

Job Ticket: 18688

DST#: 3

Test Start: 2003.09.17 @ 10:28:33

## GENERAL INFORMATION:

Formation: **lansing**

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

Time Tool Opened: 12:12:02

Time Test Ended: 17:00:02

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3317.00 ft (KB) To 3352.00 ft (KB) (TVD)**

Total Depth: 3352.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2094.00 ft (KB)

2089.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6668**

**Inside**

Press@RunDepth: 79.49 psig @ 3318.01 ft (KB)

Start Date: 2003.09.17

End Date:

2003.09.17

Start Time: 10:28:33

End Time:

17:00:02

Capacity: 7000.00 psig

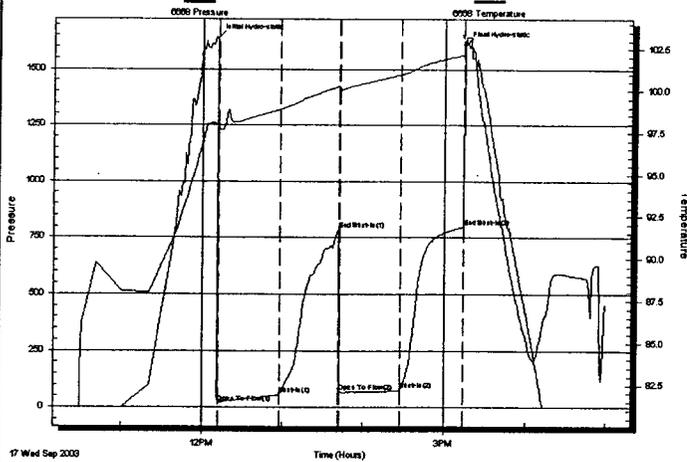
Last Calib.: 2003.09.17

Time On Btm: 2003.09.17 @ 12:11:02

Time Off Btm: 2003.09.17 @ 15:14:32

**TEST COMMENT:** FFP-wk to a fr bl 1/2" to 5" bl  
FFP-w k bl thru-out 1/2" to 1 1/2" bl  
Times 45-45-45-45  
w k surface bl bk on shut-in

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.92	98.00	Initial Hydro-static
1	19.46	97.75	Open To Flow (1)
47	58.01	98.88	Shut-In(1)
91	784.62	100.26	End Shut-In(1)
92	69.35	100.04	Open To Flow (2)
137	79.49	100.95	Shut-In(2)
183	798.24	102.14	End Shut-In(2)
184	1609.33	102.39	Final Hydro-static
188	1597.02	103.20	\

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MGO 10%gas 40%mud 50%oil	0.44
60.00	Clean Oil	0.57
0.00	150' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18688      **DST#: 3**

ATTN: Jim Baird

Test Start: 2003.09.17 @ 10:28:33

**Tool Information**

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		<u>Total Volume:</u>	<u>45.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3317.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.02 ft			
Tool Length:	58.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3295.00	
Shut In Tool	5.00			3300.00	
Hydraulic tool	5.00			3305.00	
Safety Joint	2.00			3307.00	
Packer	5.00			3312.00	23.00      Bottom Of Top Packer
Packer	5.00			3317.00	
Stubb	1.00			3318.00	
Recorder	0.01	6668	Inside	3318.01	
Perforations	31.00			3349.01	
Recorder	0.01	11085	Outside	3349.02	
Bullnose	3.00			3352.02	35.02      Bottom Packers & Anchor

**Total Tool Length: 58.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18688

**DST#: 3**

ATTN: Jim Baird

Test Start: 2003.09.17 @ 10:28:33

### 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: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
90.00	MGO 10%gas 40%mud 50%oil	0.443
60.00	Clean Oil	0.568
0.00	150' GIP	0.000

Total Length: 150.00 ft

Total Volume: 1.011 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

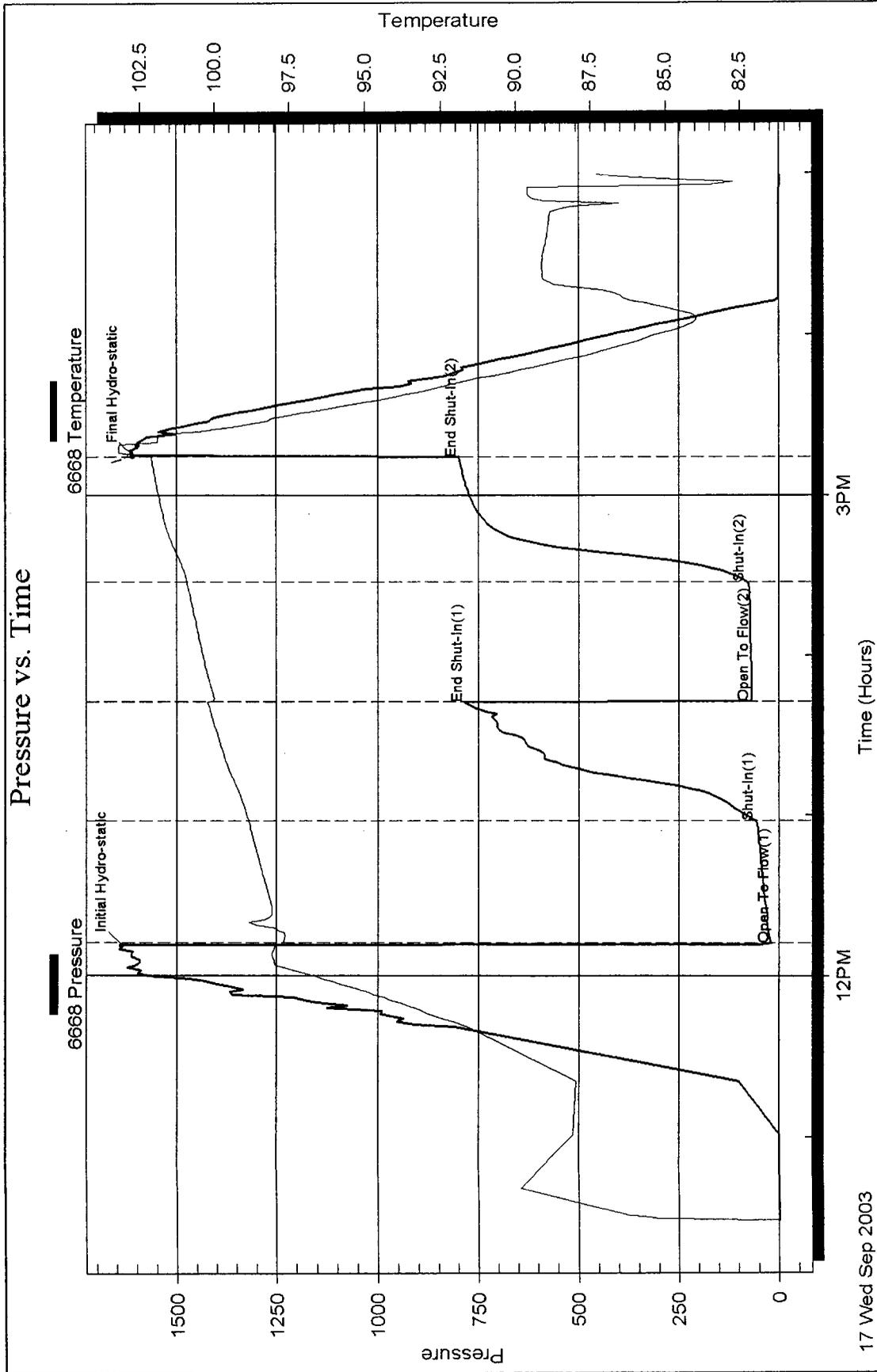
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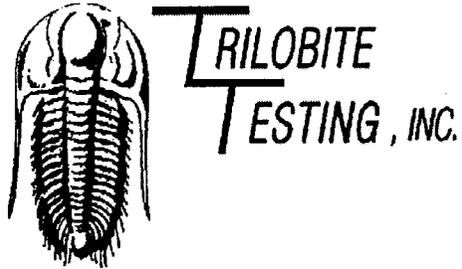
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.18 @ 00:20:59

End Date: 2003.09.18 @ 06:29:58

Job Ticket #: 18689                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Baird Oil Company LLC

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Atkisson #1**

**19-7s-20w Rooks Ks**

Job Ticket: 18689

DST#: 4

Test Start: 2003.09.18 @ 00:20:59

### GENERAL INFORMATION:

Formation: **Lans "C"**

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

Time Tool Opened: 02:12:58

Time Test Ended: 06:29:58

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3344.00 ft (KB) To 3372.00 ft (KB) (TVD)**

Total Depth: **3372.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2094.00 ft (KB)**

**2089.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6668** **Inside**

Press@RunDepth: **238.25 psig @ 3345.01 ft (KB)**

Start Date: **2003.09.18**

End Date: **2003.09.18**

Start Time: **00:20:59**

End Time: **06:29:58**

Capacity: **7000.00 psig**

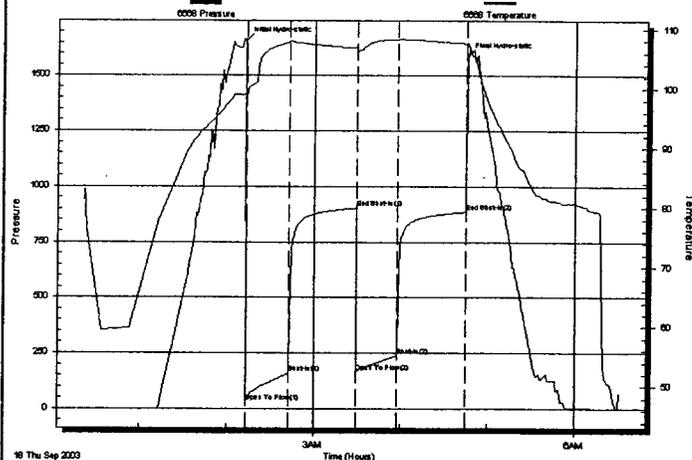
Last Calib.: **2003.09.18**

Time On Btm: **2003.09.18 @ 02:12:28**

Time Off Btm: **2003.09.18 @ 04:45:28**

TEST COMMENT: IFF-w k to strg in 10 min  
FFP-w k to strg in 18 min  
Times 30-45-30-45  
w k surface bl on shut-in

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.01	99.03	Initial Hydro-static
1	29.16	98.83	Open To Flow (1)
30	157.55	107.86	Shut-in(1)
77	901.76	106.84	End Shut-in(1)
77	165.64	106.57	Open To Flow (2)
105	238.25	108.23	Shut-in(2)
153	884.95	107.60	End Shut-in(2)
153	1588.25	107.75	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
35.00	clean oil	0.17
150.00	o&gcmw 5%gas 4%oil 76%water 15% m	1.33
120.00	o&gcmw 5%gas 4%oil 81%water 10% m	1.68
180.00	water RW .26@55F	2.52
0.00	60'GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18689      **DST#: 4**

ATTN: Jim Baird

Test Start: 2003.09.18 @ 00:20:59

### Tool Information

Drill Pipe:	Length: 3209.00 ft	Diameter: 3.80 inches	Volume: 45.01 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2200.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3344.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.02 ft			
Tool Length:	51.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3322.00	
Shut In Tool	5.00			3327.00	
Hydraulic tool	5.00			3332.00	
Safety Joint	2.00			3334.00	
Packer	5.00			3339.00	23.00      Bottom Of Top Packer
Packer	5.00			3344.00	
Stubb	1.00			3345.00	
Recorder	0.01	6668	Inside	3345.01	
Perforations	24.00			3369.01	
Recorder	0.01	11085	Outside	3369.02	
Bullnose	3.00			3372.02	28.02      Bottom Packers & Anchor

**Total Tool Length: 51.02**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18689

**DST#: 4**

ATTN: Jim Baird

Test Start: 2003.09.18 @ 00:20:59

### 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:

37000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	clean oil	0.172
150.00	o&gcmw 5%gas 4%oil 76%w ater 15%mud	1.330
120.00	o&gcmw 5%gas 4%oil 81%w ater 10%mud	1.683
180.00	w ater RW .26@55F	2.525
0.00	60'GIP	0.000

Total Length: 485.00 ft

Total Volume: 5.710 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

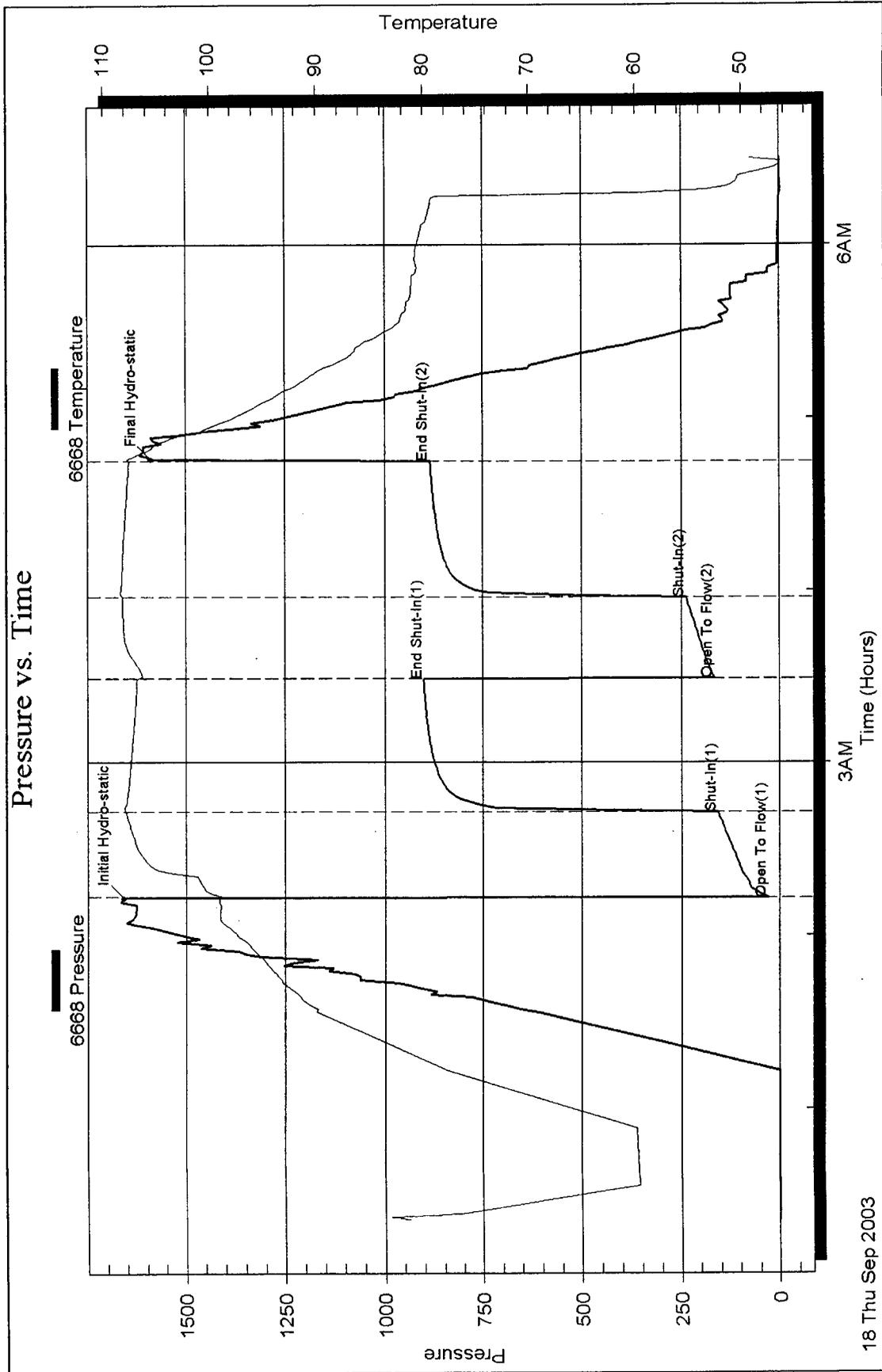
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.18 @ 12:24:33

End Date: 2003.09.18 @ 16:49:02

Job Ticket #: 18690                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Baird Oil Company LLC

Atkisson #1

19-7s-20w Rooks Ks

DST # 5

lans "D"

2003.09.18





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18690

**DST#: 5**

ATTN: Jim Baird

Test Start: 2003.09.18 @ 12:24:33

### Tool Information

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3369.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	43.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3347.00	
Shut In Tool	5.00			3352.00	
Hydraulic tool	5.00			3357.00	
Safety Joint	2.00			3359.00	
Packer	5.00			3364.00	23.00 Bottom Of Top Packer
Packer	5.00			3369.00	
Stubb	1.00			3370.00	
Recorder	0.01	6668	Inside	3370.01	
Perforations	16.00			3386.01	
Recorder	0.01	11085	Outside	3386.02	
Bullnose	3.00			3389.02	20.02 Bottom Packers & Anchor

**Total Tool Length: 43.02**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18690

**DST#: 5**

ATTN: Jim Baird

Test Start: 2003.09.18 @ 12:24:33

### 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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.34 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 2%gas 30%oil 68%mud	0.025
2.00	clean oil	0.010
0.00	60' GIP	0.000

Total Length: 7.00 ft      Total Volume: 0.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

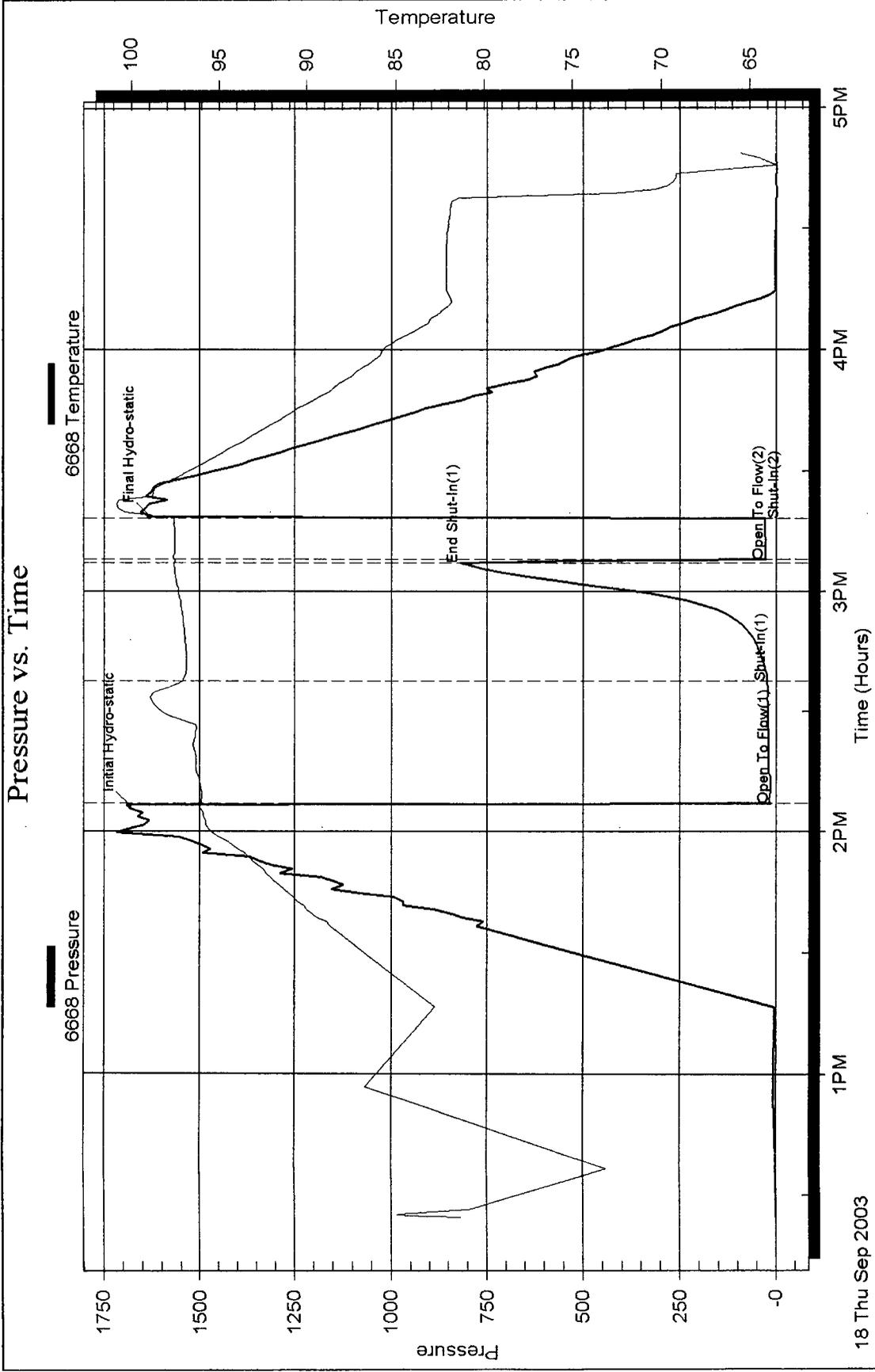
Inside

Beird Oil Company LLC

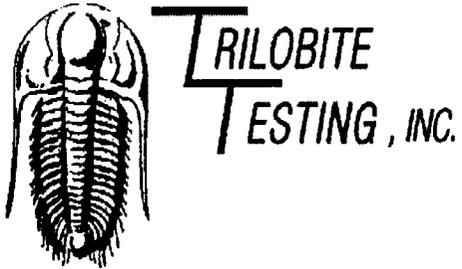
19-7s-20w Rooks Ks

DST Test Number: 5

### Pressure vs. Time



18 Thu Sep 2003



## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.19 @ 01:41:15

End Date: 2003.09.19 @ 08:21:44

Job Ticket #: 18691                      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**

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18691      **DST#: 6**

ATTN: Jim Baird

Test Start: 2003.09.19 @ 01:41:15

**Tool Information**

Drill Pipe:	Length: 3272.00 ft	Diameter: 3.80 inches	Volume: 45.90 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3386.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.02 ft			
Tool Length:	59.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3364.00	
Shut In Tool	5.00			3369.00	
Hydraulic tool	5.00			3374.00	
Safety Joint	2.00			3376.00	
Packer	5.00			3381.00	23.00      Bottom Of Top Packer
Packer	5.00			3386.00	
Stubb	1.00			3387.00	
Recorder	0.01	6668	Inside	3387.01	
Perforations	32.00			3419.01	
Recorder	0.01	11085	Outside	3419.02	
Bullnose	3.00			3422.02	36.02      Bottom Packers & Anchor

**Total Tool Length: 59.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18691

**DST#: 6**

ATTN: Jim Baird

Test Start: 2003.09.19 @ 01:41:15

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
30.00	CO	0.148
140.00	OCMW 10%oil 60%water 30%mud	1.144
720.00	Water w/show of oil	10.100
0.00	120'Gip	0.000

Total Length: 890.00 ft

Total Volume: 11.392 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

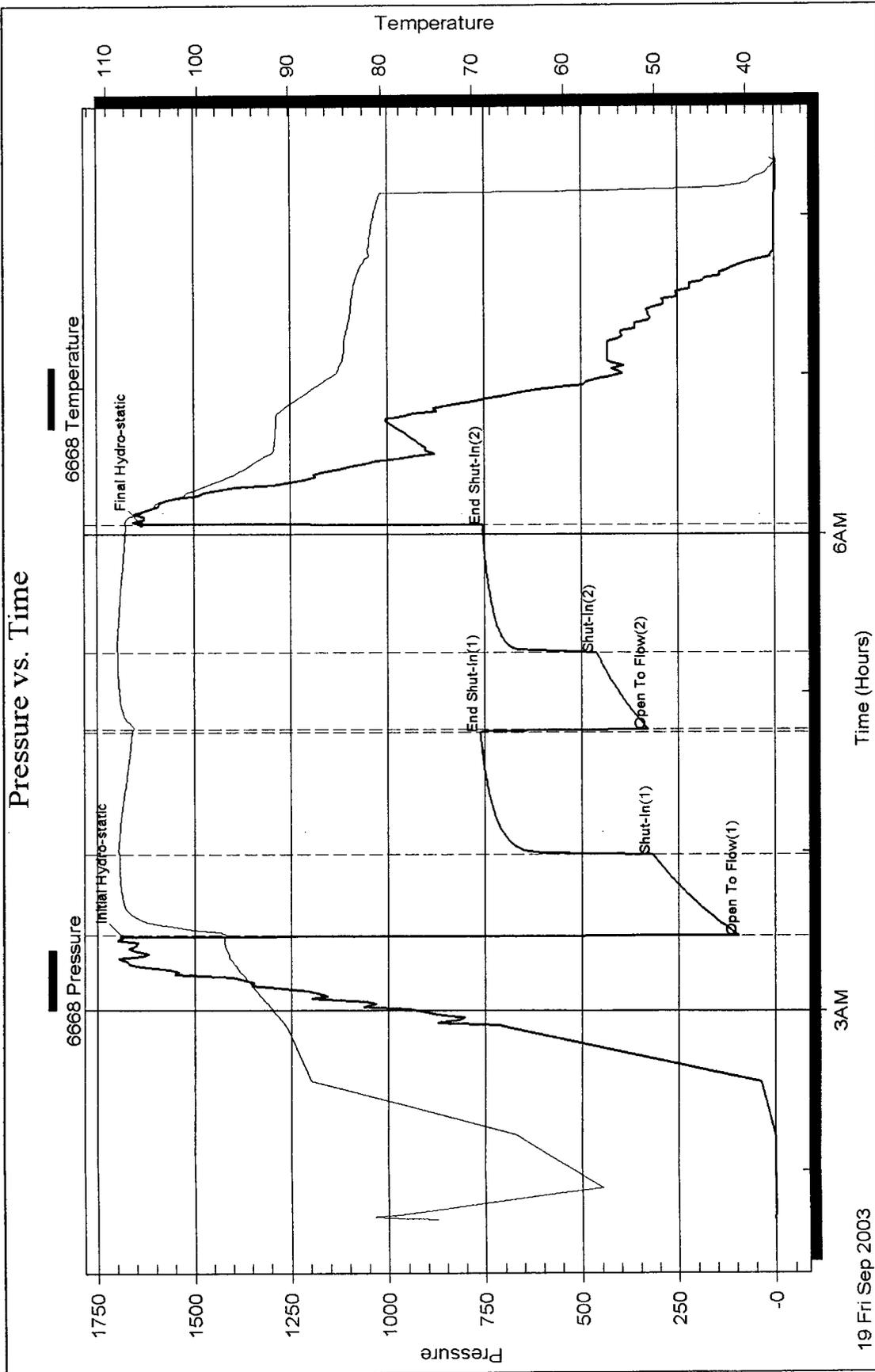
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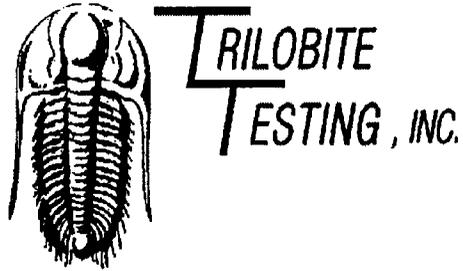
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .3@43F

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.19 @ 18:22:04

End Date: 2003.09.19 @ 22:52:33

Job Ticket #: 18692                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Baird Oil Company LLC

Atkisson #1

19-7s-20w Rooks Ks

DST # 7

lans I-J

2003.09.19



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Baird Oil Company LLC

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Atkisson #1**

**19-7s-20w Rooks Ks**

Job Ticket: 18692

**DST#: 7**

Test Start: 2003.09.19 @ 18:22:04

### GENERAL INFORMATION:

Formation: **Ians I-J**

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

Time Tool Opened: 20:17:03

Time Test Ended: 22:52:33

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3458.00 ft (KB) To 3494.00 ft (KB) (TVD)**

Reference Elevations: **2094.00 ft (KB)**

Total Depth: **3494.00 ft (KB) (TVD)**

**2089.00 ft (CF)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

**Serial #: 6668** **Inside**

Press@RunDepth: **15.18 psig @ 3459.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2003.09.19**

End Date:

**2003.09.19**

Last Calib.: **2003.09.19**

Start Time: **18:22:04**

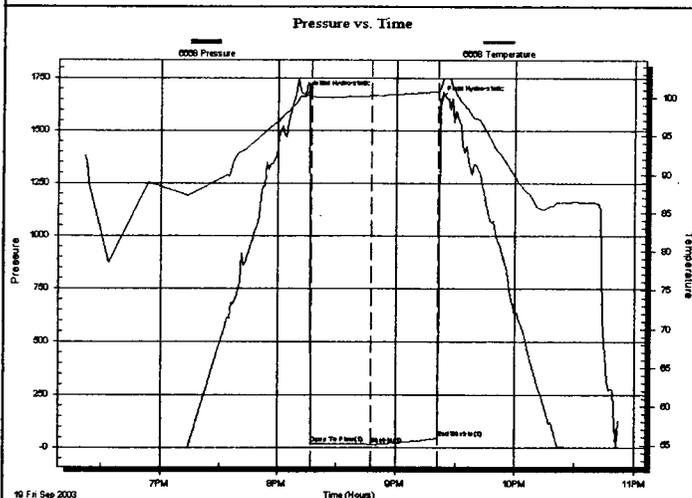
End Time:

**22:52:33**

Time On Btm: **2003.09.19 @ 20:14:03**

Time Off Btm: **2003.09.19 @ 21:21:33**

TEST COMMENT: **FP-surface bl, died  
Times 30-30**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.13	100.15	Initial Hydro-static
3	18.15	100.18	Open To Flow (1)
34	15.18	100.22	Shut-In(1)
67	45.59	100.77	End Shut-In(1)
68	1650.86	101.19	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 LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18692      **DST#: 7**

ATTN: Jim Baird

Test Start: 2003.09.19 @ 18:22:04

### Tool Information

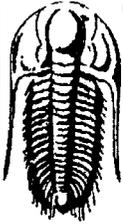
Drill Pipe:	Length: 3333.00 ft	Diameter: 3.80 inches	Volume: 46.75 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 47.34 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3458.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.02 ft			
Tool Length:	59.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3436.00	
Shut In Tool	5.00			3441.00	
Hydraulic tool	5.00			3446.00	
Safety Joint	2.00			3448.00	
Packer	5.00			3453.00	23.00      Bottom Of Top Packer
Packer	5.00			3458.00	
Stubb	1.00			3459.00	
Recorder	0.01	6668	Inside	3459.01	
Perforations	32.00			3491.01	
Recorder	0.01	11085	Outside	3491.02	
Bullnose	3.00			3494.02	36.02      Bottom Packers & Anchor

**Total Tool Length: 59.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18692

**DST#: 7**

ATTN: Jim Baird

Test Start: 2003.09.19 @ 18:22:04

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2650.00 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:

Serial #: 6668

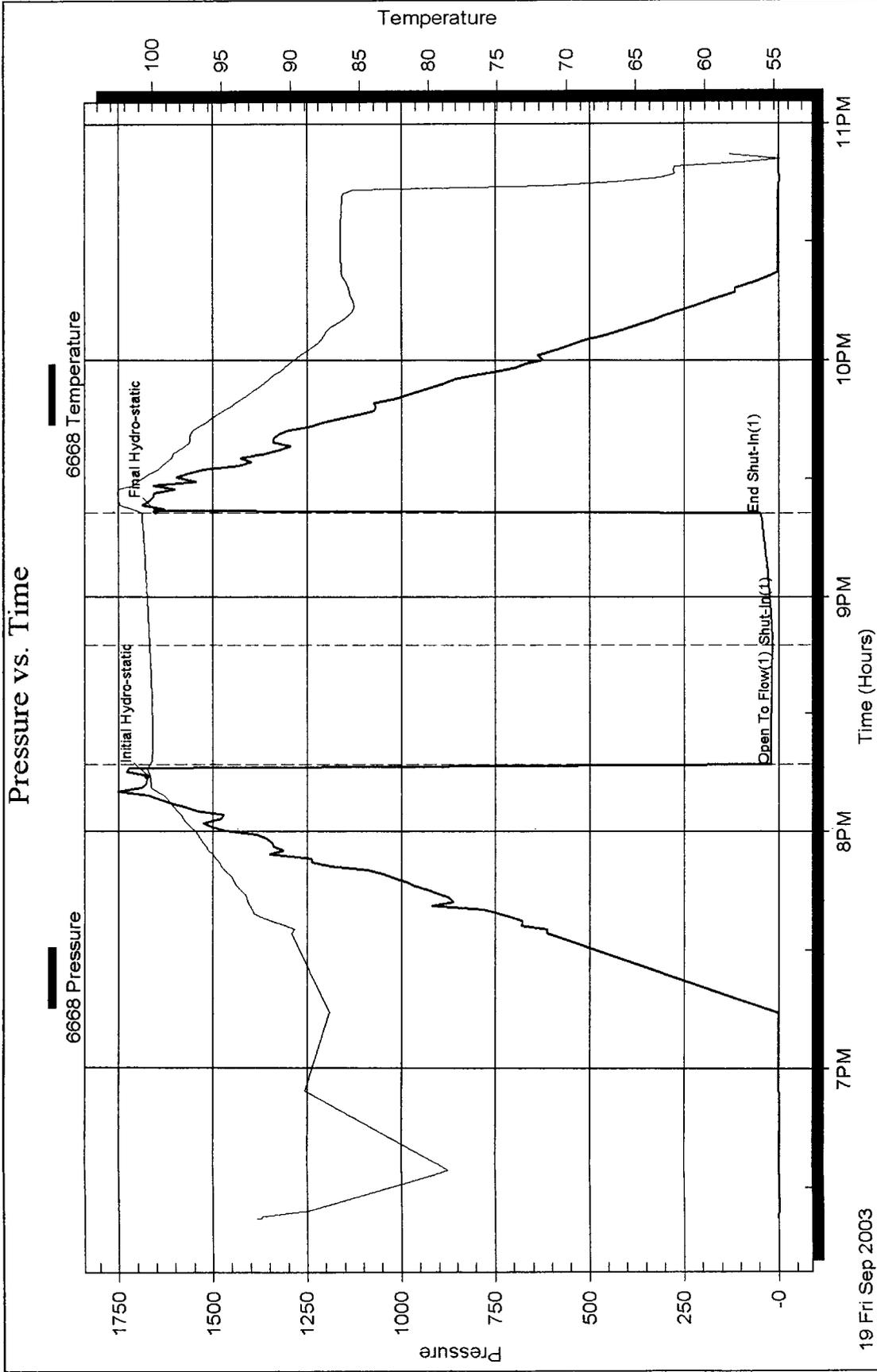
Inside

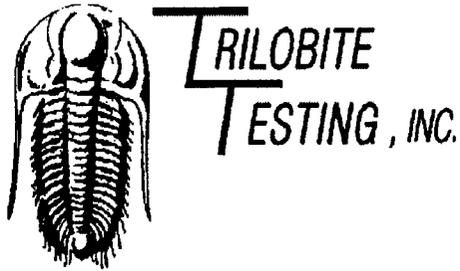
Baird Oil Company LLC

19-7s-20w Rooks Ks

DST Test Number: 7

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

**Atkisson #1**

Start Date: 2003.09.20 @ 06:31:12

End Date: 2003.09.20 @ 10:46:12

Job Ticket #: 18693                      DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Baird Oil Company LLC

Atkisson #1

19-7s-20w Rooks Ks

DST # 8

ians K-L

2003.09.20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Atkisson #1**

**19-7s-20w Rooks Ks**

Job Ticket: 18693

**DST#: 8**

Test Start: 2003.09.20 @ 06:31:12

## GENERAL INFORMATION:

Formation: **Ians K-L**

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

Time Tool Opened: 08:24:12

Time Test Ended: 10:46:12

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3487.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Total Depth: **3520.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2094.00 ft (KB)**

**2089.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6668**

**Inside**

Press@RunDepth: **23.42 psig @ 3488.01 ft (KB)**

Start Date: **2003.09.20**

End Date: **2003.09.20**

Capacity: **7000.00 psig**

Last Calib.: **2003.09.20**

Start Time: **06:31:13**

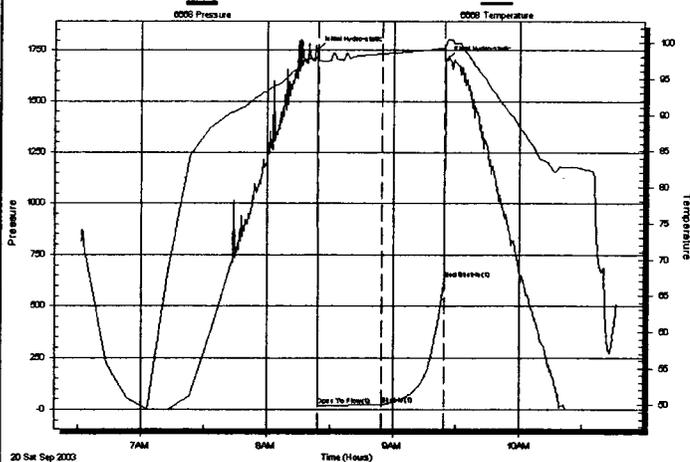
End Time: **10:46:12**

Time On Btm: **2003.09.20 @ 08:23:42**

Time Off Btm: **2003.09.20 @ 09:25:12**

TEST COMMENT: **IFP-surface bl died in 8 min  
Times 30-30**

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.53	97.93	Initial Hydro-static
1	17.41	97.66	Open To Flow (1)
31	23.42	98.45	Shut-In(1)
61	633.19	99.32	End Shut-In(1)
62	1702.33	99.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 5%oil 95%mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18693

**DST#: 8**

ATTN: Jim Baird

Test Start: 2003.09.20 @ 06:31:12

**Tool Information**

Drill Pipe:	Length: 3363.00 ft	Diameter: 3.80 inches	Volume: 47.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3487.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.02 ft			
Tool Length:	56.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3465.00	
Shut In Tool	5.00			3470.00	
Hydraulic tool	5.00			3475.00	
Safety Joint	2.00			3477.00	
Packer	5.00			3482.00	23.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Recorder	0.01	6668	Inside	3488.01	
Perforations	29.00			3517.01	
Recorder	0.01	11085	Outside	3517.02	
Bullnose	3.00			3520.02	33.02 Bottom Packers & Anchor

**Total Tool Length: 56.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18693

**DST#: 8**

ATTN: Jim Baird

Test Start: 2003.09.20 @ 06:31:12

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2650.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 5%oil 95%mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

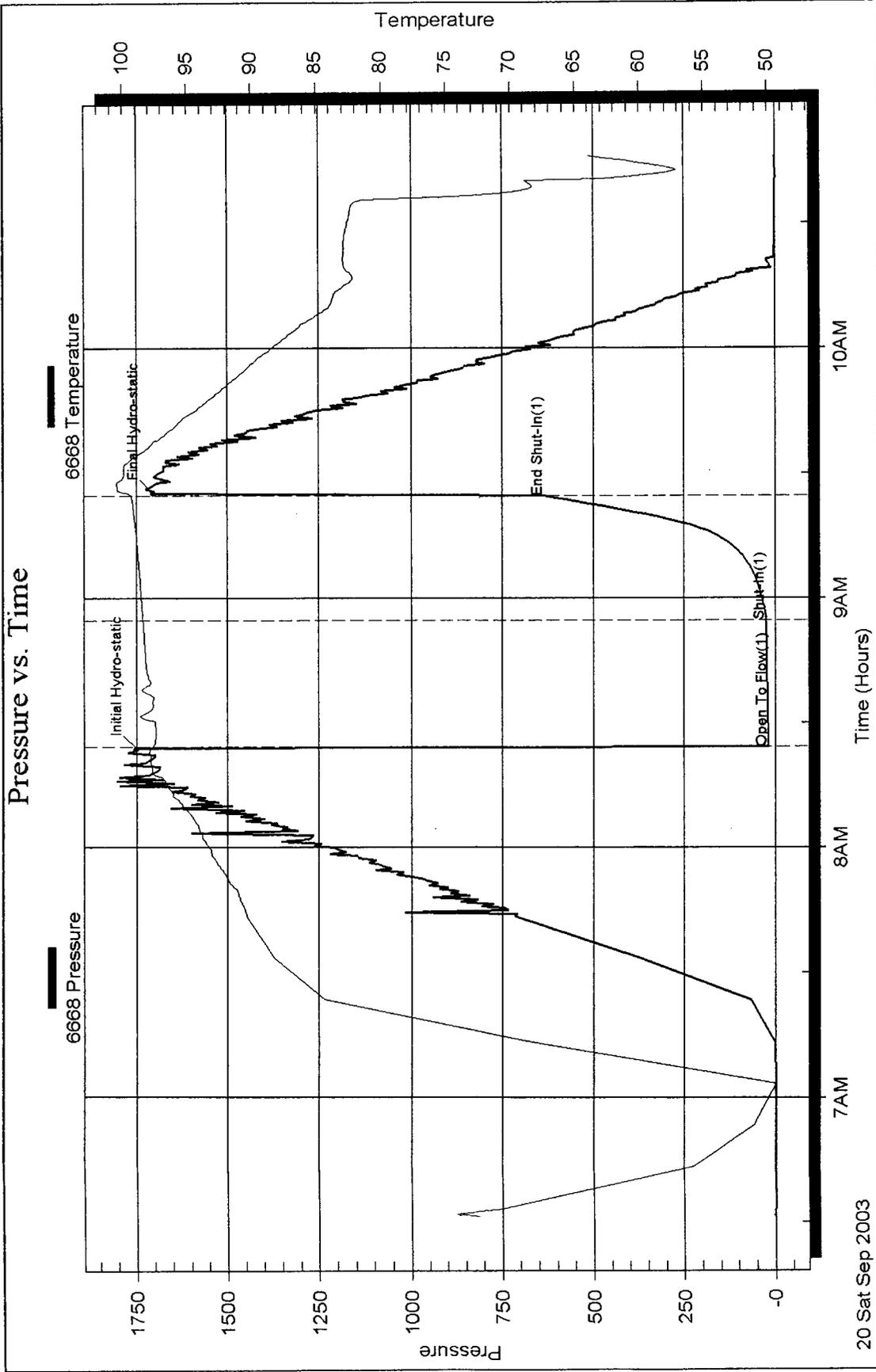
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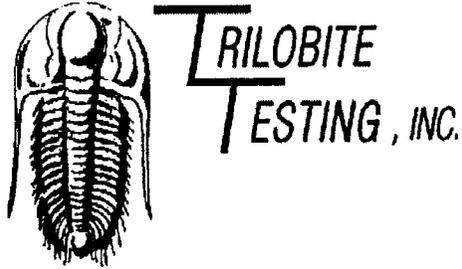
Baird Oil Company LLC

19-7s-20w Rooks Ks

DST Test Number: 8

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**19-7s-20w Rooks Ks**

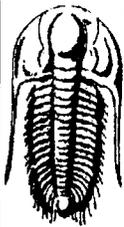
**Atkisson #1**

Start Date: 2003.09.20 @ 19:55:14

End Date: 2003.09.21 @ 02:25:43

Job Ticket #: 18694                      DST #: 9

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

PO Box 428  
Logan Ks 67646

ATTN: Jim Baird

**Atkisson #1**

**19-7s-20w Rooks Ks**

Job Ticket: 18694

**DST#: 9**

Test Start: 2003.09.20 @ 19:55:14

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:50:13

Time Test Ended: 02:25:43

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3512.00 ft (KB) To 3578.00 ft (KB) (TVD)**

Total Depth: 3578.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2094.00 ft (KB)

2089.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6668** Inside

Press@RunDepth: 75.65 psig @ 3515.01 ft (KB)

Start Date: 2003.09.20

End Date: 2003.09.21

Start Time: 19:55:14

End Time: 02:25:43

Capacity: 7000.00 psig

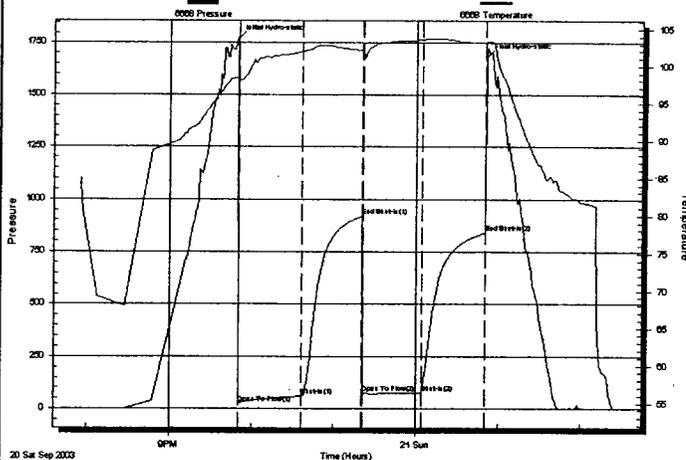
Last Calib.: 2003.09.21

Time On Btrn: 2003.09.20 @ 21:49:43

Time Off Btrn: 2003.09.21 @ 00:51:13

**TEST COMMENT:** FFP-w k bl thru-out 1/2" to 1 3/4" bl  
FFP-w k bl thru-out 1/4" to 3/4" bl  
Times 45-45-45-45

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.76	98.41	Initial Hydro-static
1	25.14	98.17	Open To Flow (1)
47	60.74	102.03	Shut-in(1)
91	918.02	102.16	End Shut-in(1)
92	73.89	101.85	Open To Flow (2)
135	75.65	103.65	Shut-in(2)
181	840.19	103.19	End Shut-in(2)
182	1683.91	103.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	clean oil	0.42
100.00	o&gcm 5%gas 30%oil 65%mud	1.08

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18694

**DST#: 9**

ATTN: Jim Baird

Test Start: 2003.09.20 @ 19:55:14

**Tool Information**

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3512.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.02 ft			
Tool Length:	89.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3490.00	
Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Safety Joint	2.00			3502.00	
Packer	5.00			3507.00	23.00 Bottom Of Top Packer
Packer	5.00			3512.00	
Stubb	1.00			3513.00	
Perforations	1.00			3514.00	
Change Over Sub	1.00			3515.00	
Recorder	0.01	6668	Inside	3515.01	
Blank Spacing	30.00			3545.01	
Change Over Sub	1.00			3546.01	
Perforations	29.00			3575.01	
Recorder	0.01	11085	Outside	3575.02	
Bullnose	3.00			3578.02	66.02 Bottom Packers & Anchor

**Total Tool Length: 89.02**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Baird Oil Company LLC

**Atkisson #1**

PO Box 428  
Logan Ks 67646

**19-7s-20w Rooks Ks**

Job Ticket: 18694

**DST#: 9**

ATTN: Jim Baird

Test Start: 2003.09.20 @ 19:55:14

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.10 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 2.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	clean oil	0.418
100.00	o&gcm 5%gas 30%oil 65%mud	1.084

Total Length: 185.00 ft      Total Volume: 1.502 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6668

Inside

Baird Oil Company LLC

19-7s-20w Rocks Ks

DST Test Number: 9

### Pressure vs. Time

