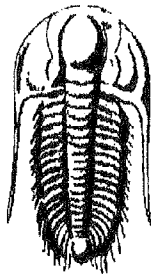


15-137-20488

15-4s-2lw

2008



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

PO Box 428
Logan KS 67646

CONFIDENTIAL
JUL 26 2008
KCC

ATTN: Jim Baird

15 4 21 Norton KS

Veh Unit # 1-15

Start Date: 2008.07.06 @ 03:09:10

End Date: 2008.07.06 @ 09:59:40

Job Ticket #: 32482 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co LLC

Veh Unit # 1-15

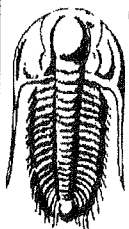
15 4 21 Norton KS

DST # 1

A

LKC

2008.07.06



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co LLC

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32482

DST#: 1

Test Start: 2008.07.06 @ 03:09:10

GENERAL INFORMATION:

Formation: **A LKC**

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

Time Tool Opened: 05:24:40

Time Test Ended: 09:59:40

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3426.00 ft (KB) To 3450.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2214.00 ft (KB)

2209.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 608.63 psig @ 3427.00 ft (KB)

Start Date: 2008.07.06

End Date: 2008.07.06

Start Time: 03:09:11

End Time: 09:59:40

Capacity: 7000.00 psig

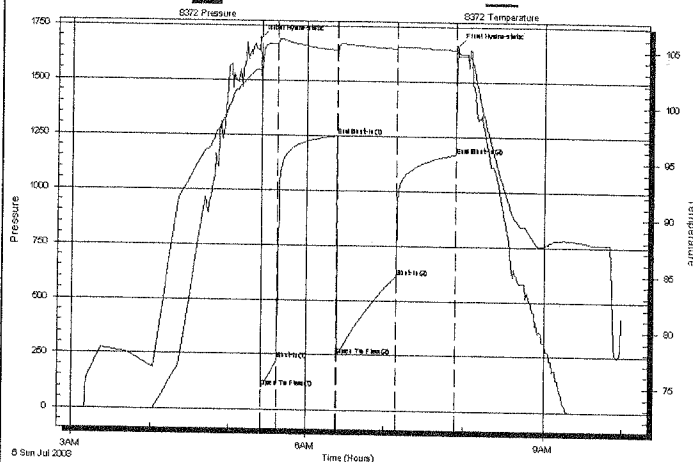
Last Calib.: 2008.07.06

Time On Btm: 2008.07.06 @ 05:23:10

Time Off Btm: 2008.07.06 @ 07:55:10

TEST COMMENT: IF Strong BB in 4 min
ISI Weak surface blow
FF Strong BB in 4 min

Pressure vs. Time



PRESSURE SUMMARY

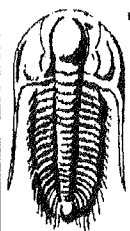
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.33	103.15	Initial Hydro-static
2	99.23	102.69	Open To Flow (1)
14	225.28	105.52	Shut-In(1)
60	1247.67	104.96	End Shut-In(1)
61	245.98	104.45	Open To Flow (2)
106	608.63	105.15	Shut-In(2)
151	1167.64	105.06	End Shut-In(2)
152	1659.31	104.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1240.00	MW	16.28

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32482

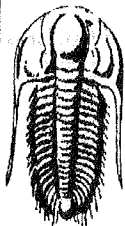
DST#: 1

Test Start: 2008.07.06 @ 03:09:10

Tool Information

Drill Pipe:	Length: 3311.00 ft	Diameter: 3.80 inches	Volume: 46.44 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:	60000.00 lb	
			Total Volume:	47.04 bbl	Tool Chased	5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	48000.00 lb	
Depth to Top Packer:	3426.00 ft			Final	52000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	24.00 ft					
Tool Length:	45.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						
Slid tool 5' to bottom						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3406.00	
Shut In Tool	5.00			3411.00	
Hydraulic tool	5.00			3416.00	
Packer	5.00			3421.00	21.00 Bottom Of Top Packer
Packer	5.00			3426.00	
Stubb	1.00			3427.00	
Recorder	0.00	8372	Inside	3427.00	
Recorder	0.00	8368	Outside	3427.00	
Perforations	20.00			3447.00	
Bullnose	3.00			3450.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Veh Unit # 1-15

PO Box 428
Logan KS 67646

15 4 21 Norton KS

ATTN: Jim Baird

Job Ticket: 32482

DST#: 1

Test Start: 2008.07.06 @ 03:09:10

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

93000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1240.00	MW	16.283

Total Length: 1240.00 ft Total Volume: 16.283 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07 @ 80 = 93000ppm

DST Test Number: 1

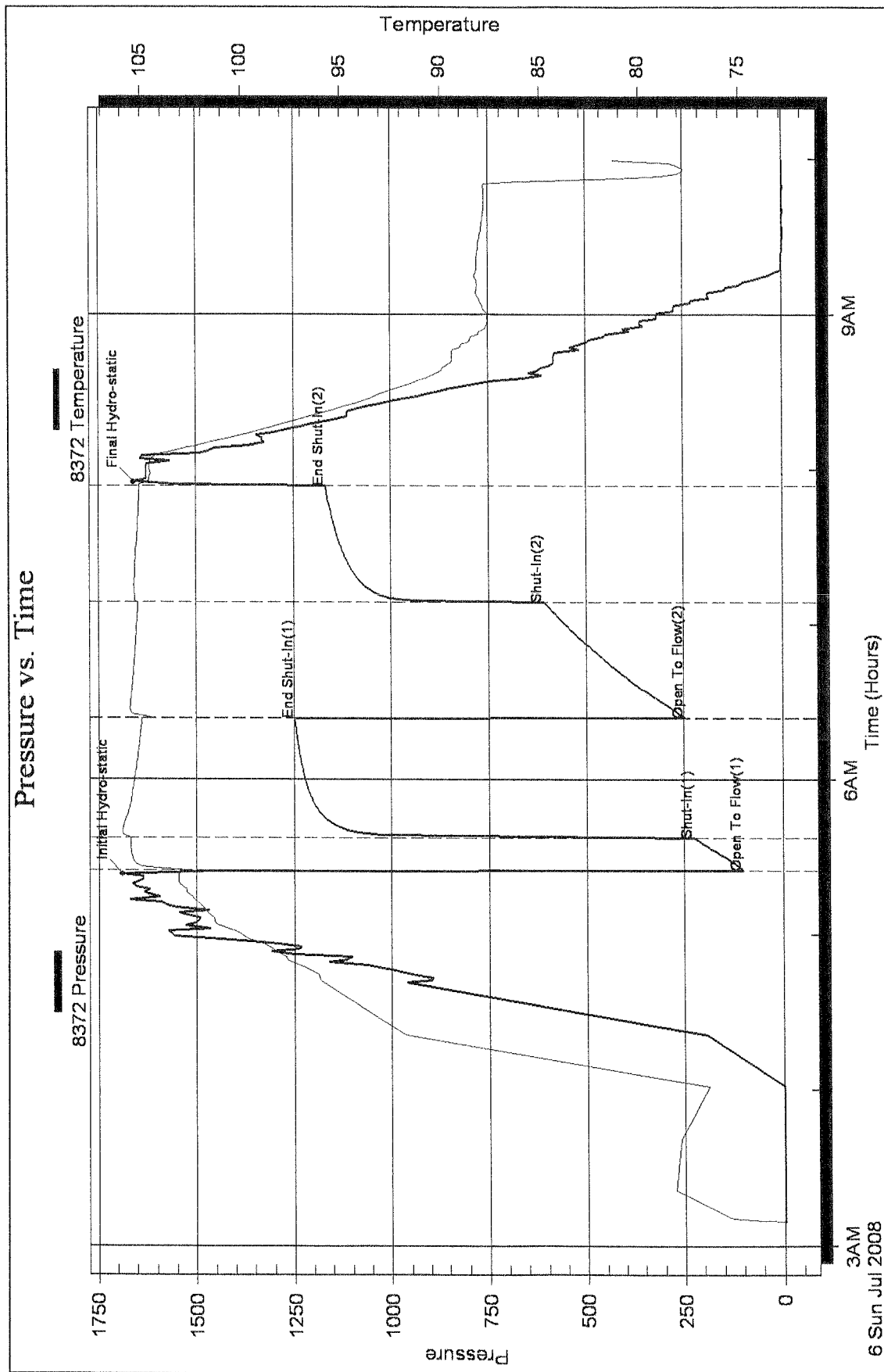
15 4 21 Norton KS

Baird Oil Co LLC

Inside

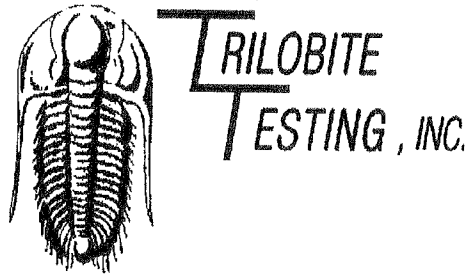
Serial #: 8372

Pressure vs. Time



Ref. No: 32482

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

PO Box 428
Logan KS 67646

ATTN: Jim Baird

15 4 21 Norton KS

Veh Unit # 1-15

Start Date: 2008.07.06 @ 15:58:43

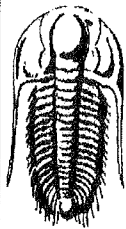
End Date: 2008.07.06 @ 21:45:13

Job Ticket #: 32483 DST #: 2

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

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32483

DST#: 2

Test Start: 2008.07.06 @ 15:58:43

GENERAL INFORMATION:

Formation: **C LKC**

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

Time Tool Opened: 17:36:43

Time Test Ended: 21:45:13

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3454.00 ft (KB) To 3476.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2214.00 ft (KB)

2209.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 145.88 psig @ 3455.00 ft (KB)

Start Date: 2008.07.06

End Date: 2008.07.06

Start Time: 15:58:44

End Time: 21:45:13

Capacity: 7000.00 psig

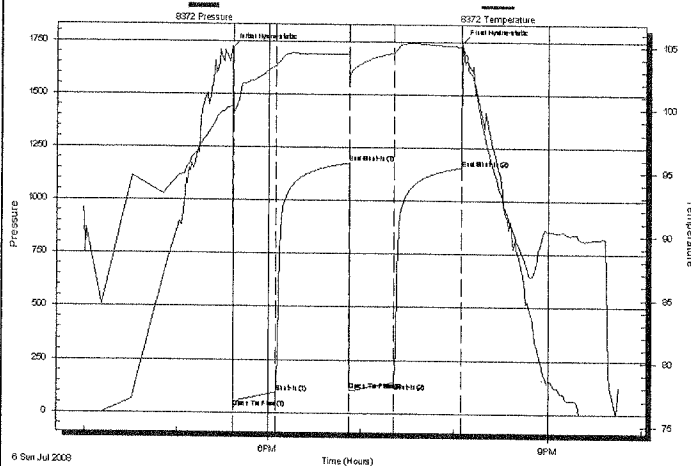
Last Calib.: 2008.07.06

Time On Btm: 2008.07.06 @ 17:36:13

Time Off Btm: 2008.07.06 @ 20:05:13

TEST COMMENT: IF Strong BB in 12 min
ISI Weak building to 1 "
FF Strong BB in 12 min
FSI Weak building to 1 1/2 "

Pressure vs. Time



PRESSURE SUMMARY

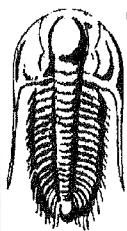
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.89	100.16	Initial Hydro-static
1	21.49	99.57	Open To Flow (1)
29	96.37	103.40	Shut-In(1)
76	1175.00	104.38	End Shut-In(1)
77	106.42	102.96	Open To Flow (2)
105	145.88	104.46	Shut-In(2)
149	1156.78	105.00	End Shut-In(2)
149	1744.24	105.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW	0.30
62.00	SillyOWCM 5%O 55%W 40%M	0.32
30.00	OCM 40%O 60%M	0.42
185.00	CGsyO 10%G 90%O	2.60

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32483

DST#: 2

Test Start: 2008.07.06 @ 15:58:43

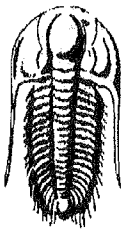
Tool Information

Drill Pipe:	Length: 3342.00 ft	Diameter: 3.80 inches	Volume: 46.88 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:	60000.00 lb
		Total Volume:	47.48 bbl	Tool Chased	2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3454.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	43.00 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			3434.00	
Shut In Tool	5.00			3439.00	
Hydraulic tool	5.00			3444.00	
Packer	5.00			3449.00	21.00 Bottom Of Top Packer
Packer	5.00			3454.00	
Stubb	1.00			3455.00	
Recorder	0.00	8372	Inside	3455.00	
Recorder	0.00	8368	Outside	3455.00	
Perforations	18.00			3473.00	
Bullnose	3.00			3476.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Veh Unit # 1-15

PO Box 428
Logan KS 67646

15 4 21 Norton KS

Job Ticket: 32483

DST#: 2

ATTN: Jim Baird

Test Start: 2008.07.06 @ 15:58:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 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: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW	0.305
62.00	SltlyOWCM 5%O 55%W 40%M	0.323
30.00	OCM 40%O 60%M	0.421
185.00	CGsyO 10%G 90%O	2.595

Total Length: 339.00 ft

Total Volume: 3.644 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

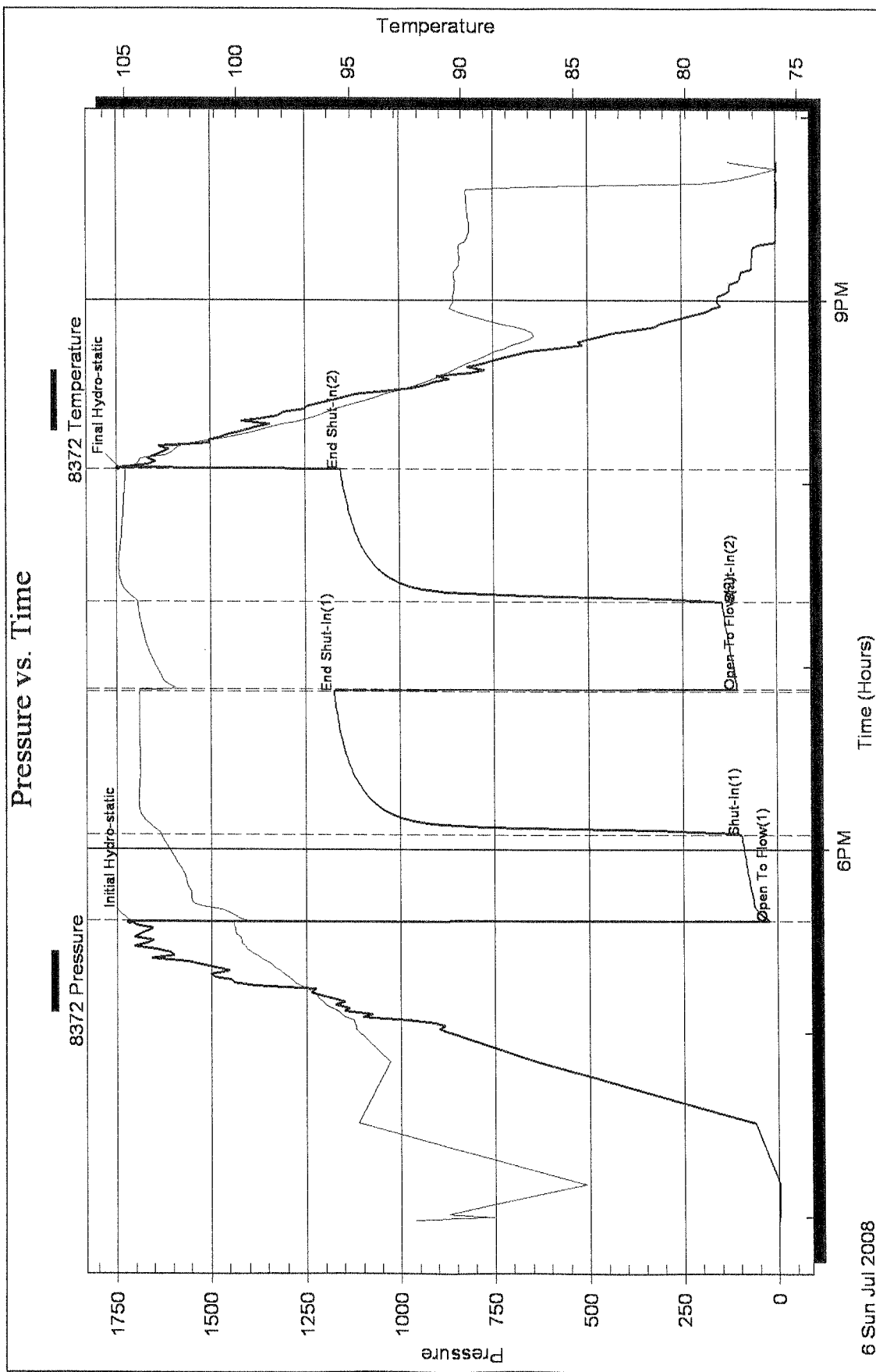
Serial #:

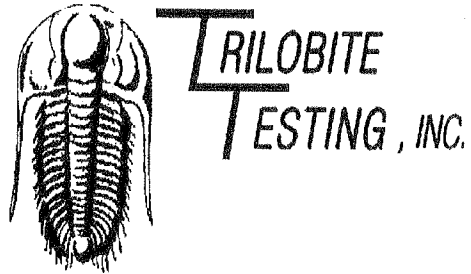
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09 @ 81 = 70000ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

PO Box 428
Logan KS 67646

ATTN: Jim Baird

15 4 21 Norton KS

Veh Unit # 1-15

Start Date: 2008.07.07 @ 03:46:39

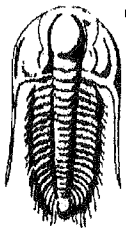
End Date: 2008.07.07 @ 09:50:39

Job Ticket #: 32484 DST #: 3

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

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32484

DST#: 3

Test Start: 2008.07.07 @ 03:46:39

GENERAL INFORMATION:

Formation: **D LKC**

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

Time Tool Opened: 05:19:09

Time Test Ended: 09:50:39

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3476.00 ft (KB) To 3496.00 ft (KB) (TVD)

Total Depth: 3496.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2214.00 ft (KB)

2209.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 235.44 psig @ 3477.00 ft (KB)

Start Date: 2008.07.07

End Date:

2008.07.07

Start Time: 03:46:40

End Time:

09:50:39

Capacity: 7000.00 psig

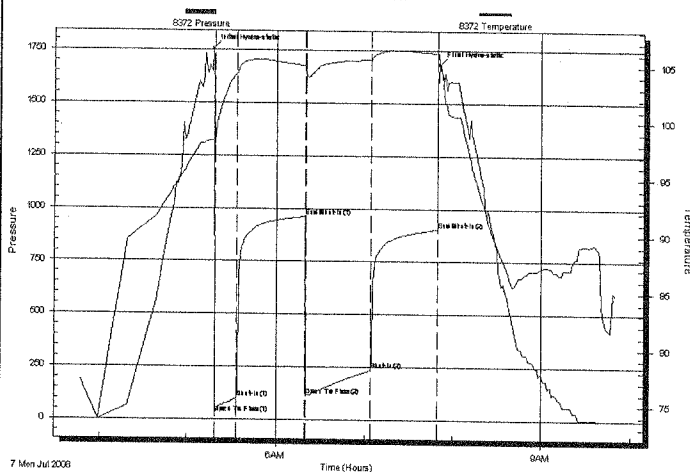
Last Calib.: 2008.07.07

Time On Btm: 2008.07.07 @ 05:17:39

Time Off Btm: 2008.07.07 @ 07:51:09

TEST COMMENT: IF Strong BB in 4 min
ISI Weak steady surface blow
FF Strong BB in 7 min

Pressure vs. Time



PRESSURE SUMMARY

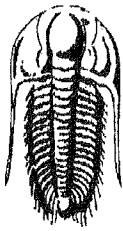
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.41	98.49	Initial Hydro-static
2	26.13	98.19	Open To Flow (1)
16	97.92	104.28	Shut-In (1)
62	961.02	105.03	End Shut-In (1)
63	114.40	104.28	Open To Flow (2)
106	235.44	105.58	Shut-In (2)
152	904.51	106.12	End Shut-In (2)
154	1684.43	105.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCGsyM 10%G 40%O 50%M	0.32
675.00	CGsyO 10%G 90%O	8.95
0.00	62 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Veh Unit # 1-15

PO Box 428
Logan KS 67646

15 4 21 Norton KS

Job Ticket: 32484

DST#: 3

ATTN: Jim Baird

Test Start: 2008.07.07 @ 03:46:39

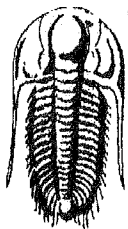
Tool Information

Drill Pipe:	Length: 3342.00 ft	Diameter: 3.80 inches	Volume: 46.88 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:	60000.00 lb
		Total Volume:	47.48 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3476.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 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
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Change Over Sub	1.00			3456.00	
Shut In Tool	5.00			3461.00	
Hydraulic tool	5.00			3466.00	
Packer	5.00			3471.00	21.00 Bottom Of Top Packer
Packer	5.00			3476.00	
Stubb	1.00			3477.00	
Recorder	0.00	8372	Inside	3477.00	
Recorder	0.00	8368	Outside	3477.00	
Perforations	16.00			3493.00	
Bullnose	3.00			3496.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Veh Unit # 1-15

PO Box 428
Logan KS 67646

15 4 21 Norton KS

Job Ticket: 32484

DST#: 3

ATTN: Jim Baird

Test Start: 2008.07.07 @ 03:46:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OCGsyM 10%G 40%O 50%M	0.320
675.00	CGsyO 10%G 90%O	8.949
0.00	62 GIP	0.000

Total Length: 740.00 ft

Total Volume: 9.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

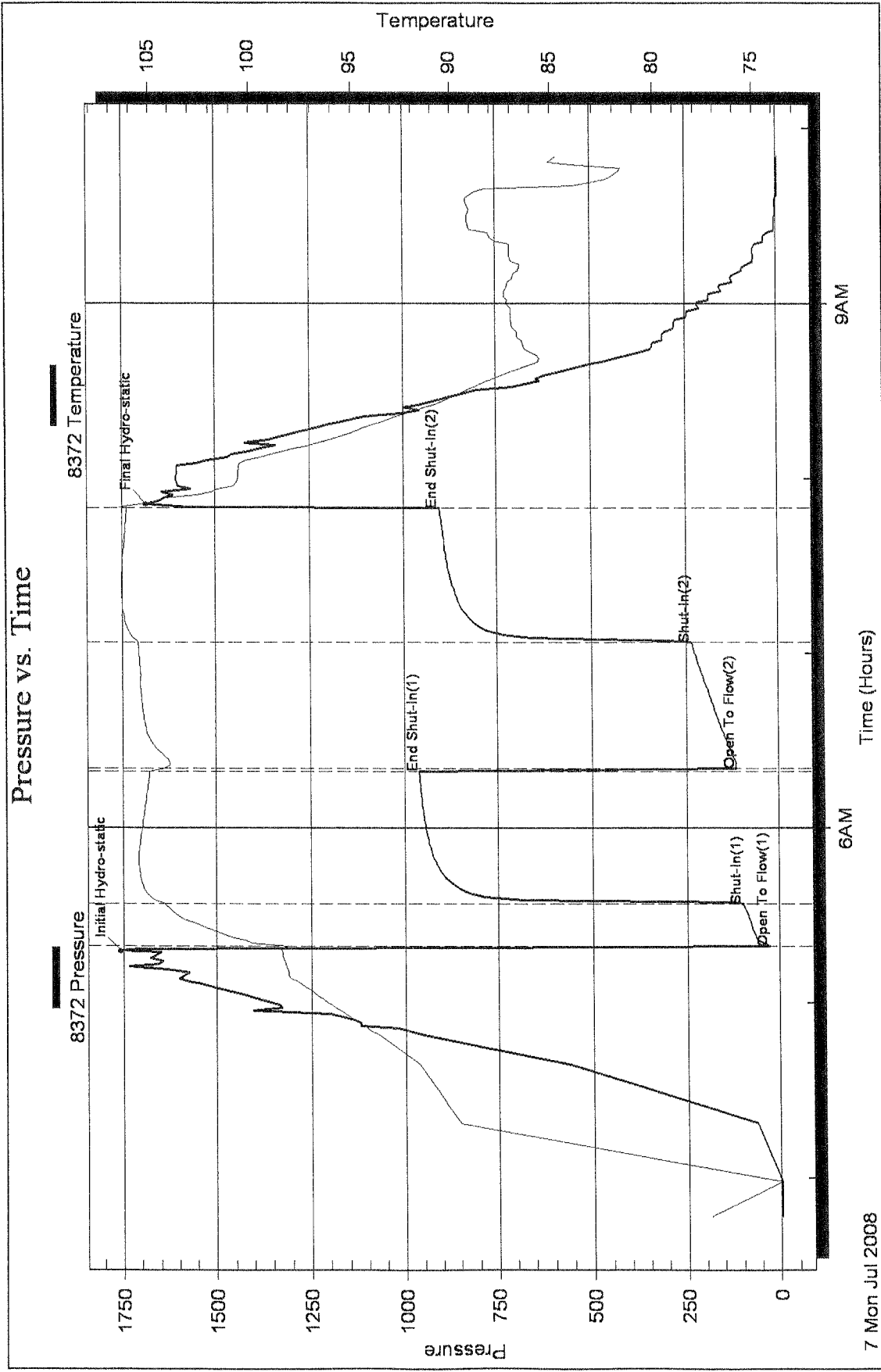
Serial #:

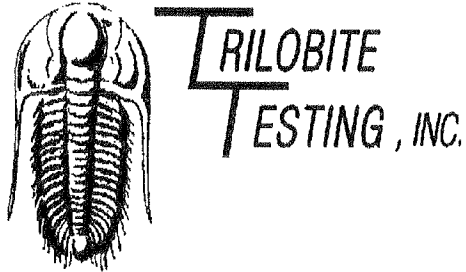
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

PO Box 428
Logan KS 67646

ATTN: Jim Baird

15 4 21 Norton KS

Veh Unit # 1-15

Start Date: 2008.07.07 @ 16:19:37

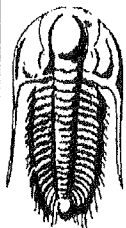
End Date: 2008.07.07 @ 23:06:07

Job Ticket #: 32485 DST #: 4

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

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32485

DST#: 4

Test Start: 2008.07.07 @ 16:19:37

GENERAL INFORMATION:

Formation: **F LKC**

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

Time Tool Opened: 18:13:37

Time Test Ended: 23:06:07

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3494.00 ft (KB) To 3517.00 ft (KB) (TVD)

Total Depth: 3517.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2214.00 ft (KB)

2209.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 133.16 psig @ 3495.00 ft (KB)

Start Date: 2008.07.07

End Date:

2008.07.07

Start Time: 16:19:38

End Time:

23:06:07

Capacity: 7000.00 psig

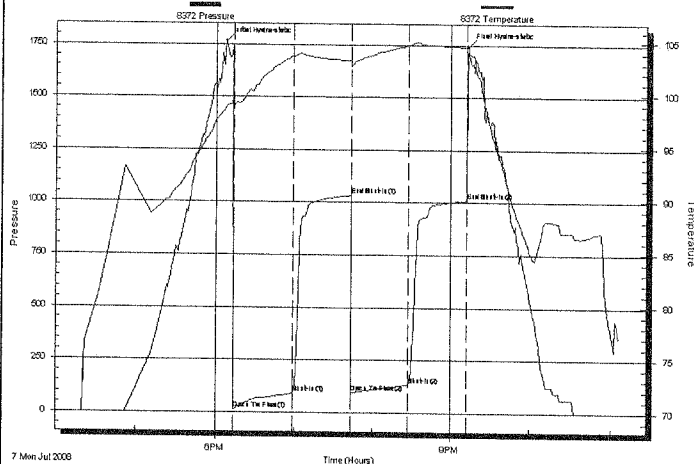
Last Calib.: 2008.07.07

Time On Btm: 2008.07.07 @ 18:08:07

Time Off Btm: 2008.07.07 @ 21:13:37

TEST COMMENT: IF Weak building to 6 "
FF Weak building to 2 "

Pressure vs. Time



PRESSURE SUMMARY

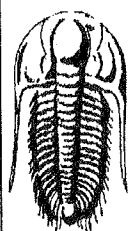
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.87	98.90	Initial Hydro-static
6	11.55	98.97	Open To Flow (1)
51	89.38	103.67	Shut-In(1)
95	1032.61	103.32	End Shut-In(1)
96	93.99	102.77	Open To Flow (2)
140	133.16	104.77	Shut-In(2)
185	1009.80	104.55	End Shut-In(2)
186	1743.17	104.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MV	0.64
110.00	Slightly OCMV 5%O 60%W 35%M	1.54
70.00	CO	0.98

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32485

DST#: 4

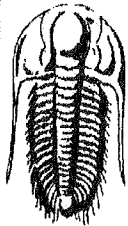
Test Start: 2008.07.07 @ 16:19:37

Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 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: 70000.00 lb
		Total Volume: 47.91 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3494.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3474.00	
Shut In Tool	5.00			3479.00	
Hydraulic tool	5.00			3484.00	
Packer	5.00			3489.00	21.00 Bottom Of Top Packer
Packer	5.00			3494.00	
Stubb	1.00			3495.00	
Recorder	0.00	8372	Inside	3495.00	
Recorder	0.00	8368	Outside	3495.00	
Perforations	19.00			3514.00	
Bullnose	3.00			3517.00	23.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Veh Unit # 1-15

PO Box 428
Logan KS 67646

15 4 21 Norton KS

Job Ticket: 32485

DST#: 4

ATTN: Jim Baird

Test Start: 2008.07.07 @ 16:19:37

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.79 in³

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:

30 deg API

Water Salinity:

72000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MW	0.642
110.00	Silty OCMW 5%O 60%W 35%M	1.543
70.00	CO	0.982

Total Length: 305.00 ft

Total Volume: 3.167 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .12 @ 80 = 72000oom

Serial #: 8372

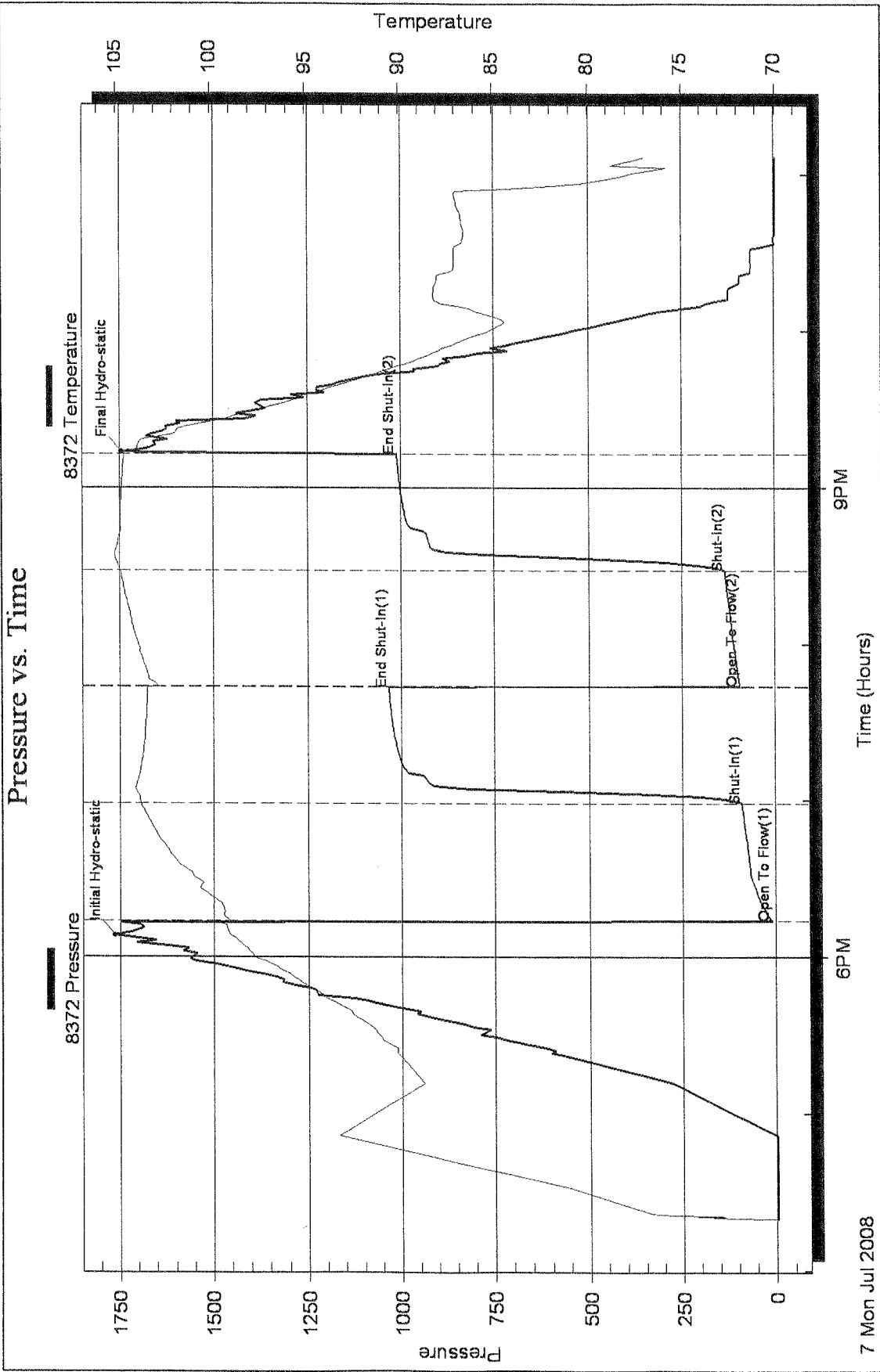
Inside

Baird Oil Co LLC

15 4 21 Norton KS

DST Test Number: 4

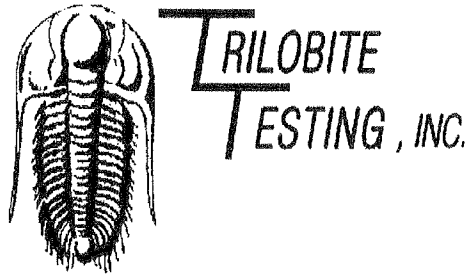
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 32485

Printed: 2008.07.10 @ 11:07:25 Page 5



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

PO Box 428
Logan KS 67646

ATTN: Jim Baird

15 4 21 Norton KS

Veh Unit # 1-15

Start Date: 2008.07.08 @ 08:40:34

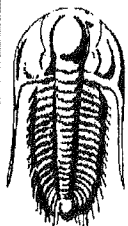
End Date: 2008.07.08 @ 12:04:04

Job Ticket #: 32486 DST #: 5

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

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32486

DST#: 5

Test Start: 2008.07.08 @ 08:40:34

GENERAL INFORMATION:

Formation: **K-L**

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

Time Tool Opened: 10:14:34

Time Test Ended: 12:04:04

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Interval: 3587.00 ft (KB) To 3613.00 ft (KB) (TVD)

Total Depth: **3613.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2214.00 ft (KB)**

2209.00 ft (CF)

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

Serial #: 8372

Inside

Press@RunDepth: **14.73 psig @ 3588.00 ft (KB)**

Start Date: **2008.07.08**

End Date:

2008.07.08

Start Time: **08:40:35**

End Time:

12:04:04

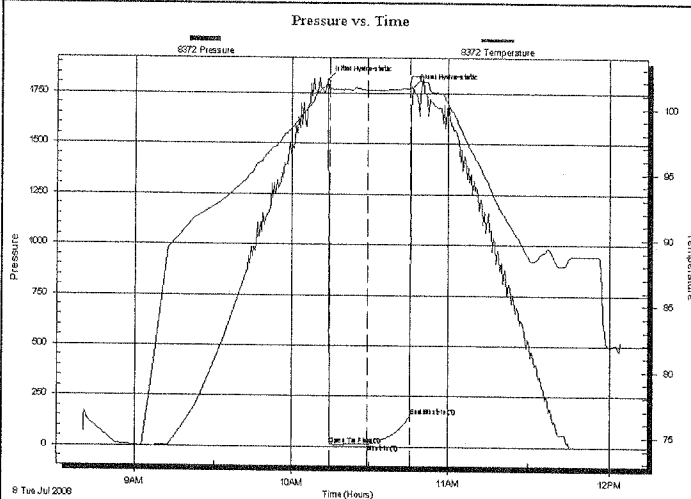
Capacity: **7000.00 psig**

Last Calib.: **2008.07.08**

Time On Btm: **2008.07.08 @ 10:14:04**

Time Off Btm: **2008.07.08 @ 10:46:34**

TEST COMMENT: IF Weak died in 7 min



PRESSURE SUMMARY

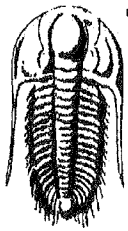
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.89	102.02	Initial Hydro-static
1	11.28	101.28	Open To Flow (1)
16	14.73	101.36	Shut-In(1)
32	153.60	101.54	End Shut-In(1)
33	1775.01	102.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mw /O spots	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

PO Box 428
Logan KS 67646

ATTN: Jim Baird

Veh Unit # 1-15

15 4 21 Norton KS

Job Ticket: 32486

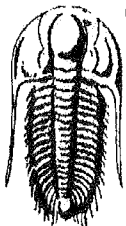
DST#: 5

Test Start: 2008.07.08 @ 08:40:34

Tool Information

Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 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: 60000.00 lb
		Total Volume: 49.20 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3587.00 ft			Final 44000.00 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			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	21.00 Bottom Of Top Packer
Packer	5.00			3587.00	
Stubb	1.00			3588.00	
Recorder	0.00	8372	Inside	3588.00	
Recorder	0.00	8368	Outside	3588.00	
Perforations	22.00			3610.00	
Bullnose	3.00			3613.00	26.00 Bottom Packers & Anchor
Total Tool Length:		47.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Veh Unit # 1-15

PO Box 428
Logan KS 67646

15 4 21 Norton KS

Job Ticket: 32486

DST#: 5

ATTN: Jim Baird

Test Start: 2008.07.08 @ 08:40:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mw/O spots	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

