



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428
Logan KS 67646

ATTN: Jim Baird

36-3s-22w Norton,KS

Graham # 1-36

Start Date: 2011.03.12 @ 02:24:19

End Date: 2011.03.12 @ 06:59:19

Job Ticket #: 041695 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Baird Oil Co LLC

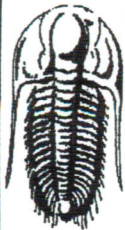
Graham # 1-36

36-3s-22w Norton,KS

DST # 1

Toronto

2011.03.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton, KS

Job Ticket: 041695 **DST#: 1**

ATTN: Jim Baird

Test Start: 2011.03.12 @ 02:24:19

GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 04:30:19

Time Test Ended: 06:59:19

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3484.00 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: 2292.00 ft (KB)

2287.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press@RunDepth: 18.61 psig @ 3485.00 ft (KB)

Start Date: 2011.03.12

End Date:

2011.03.12

Capacity: 8000.00 psig

Last Calib.: 2011.03.12

Start Time: 02:34:19

End Time:

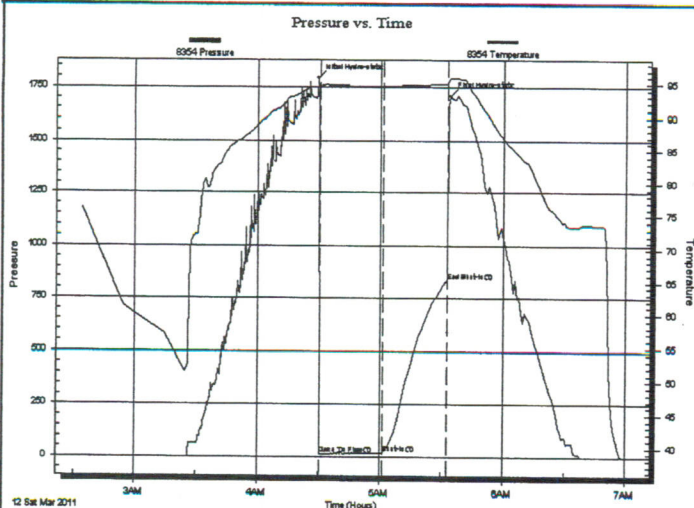
06:59:19

Time On Btrr: 2011.03.12 @ 04:29:29

Time Off Btrr: 2011.03.12 @ 05:33:49

TEST COMMENT: IF-Weak steady surface blow

Times[30-30]



PRESSURE SUMMARY

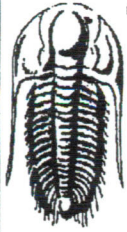
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.26	94.65	Initial Hydro-static
1	13.40	93.73	Open To Flow (1)
32	18.61	94.72	Shut-In(1)
63	833.31	95.01	End Shut-In(1)
65	1707.62	95.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

Job Ticket: 041695 **DST#: 1**

ATTN: Jim Baird

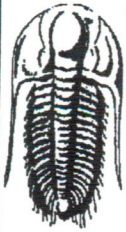
Test Start: 2011.03.12 @ 02:24:19

Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight: 2300.00 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: 47.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3484.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	53.00 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			3465.00	
Shut In Tool	5.00			3470.00	
Hydraulic tool	5.00			3475.00	
Packer	5.00			3480.00	20.00 Bottom Of Top Packer
Packer	4.00			3484.00	
Stubb	1.00			3485.00	
Recorder	0.00	8354	Inside	3485.00	
Recorder	0.00	8520	Outside	3485.00	
Perforations	29.00			3514.00	
Bullnose	3.00			3517.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton, KS

Job Ticket: 041695 DST#: 1

ATTN: Jim Baird

Test Start: 2011.03.12 @ 02:24:19

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

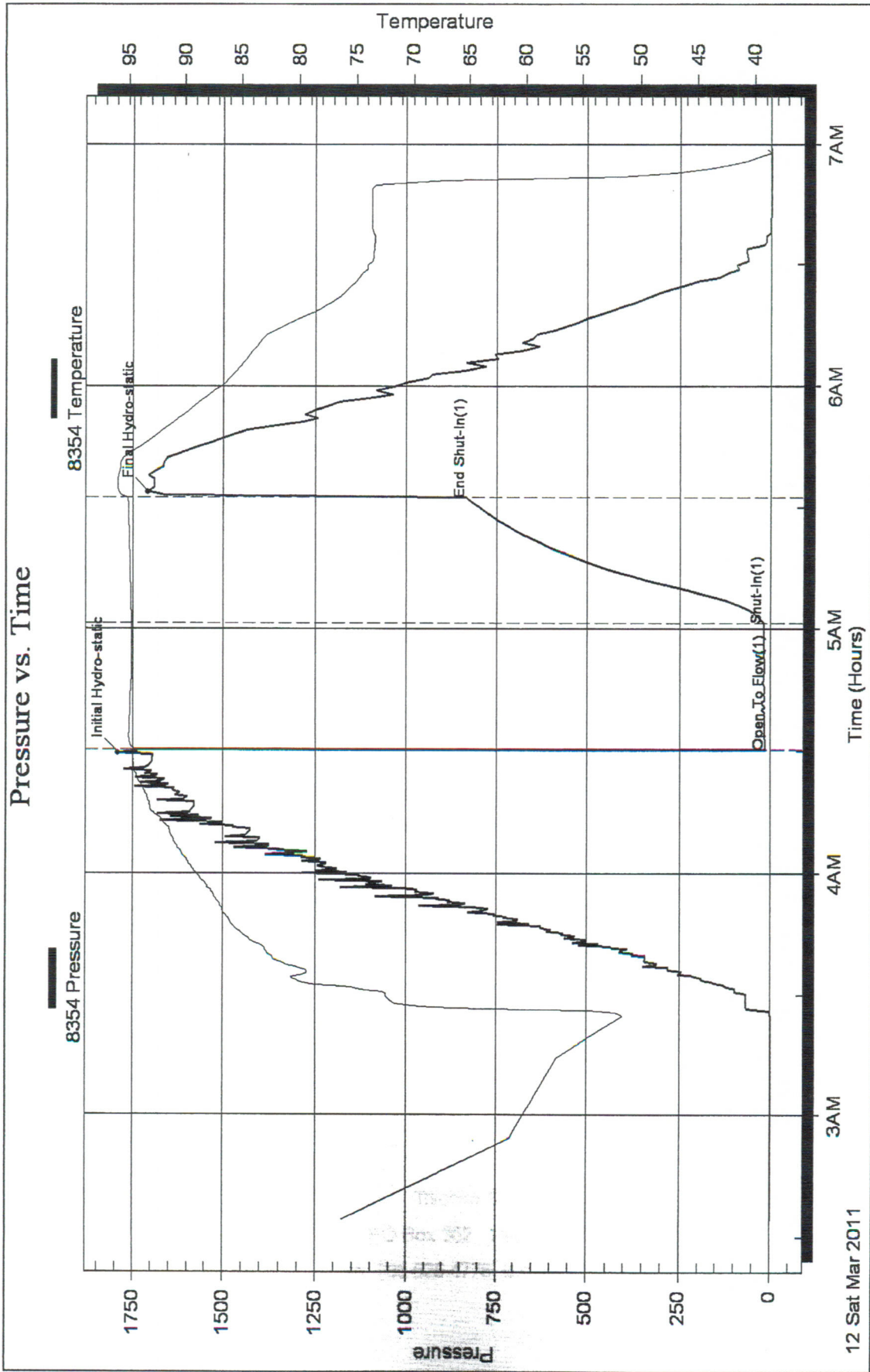
Inside

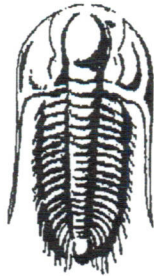
Baird Oil Co LLC

36-3s-22w Norton, KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428
Logan KS 67646

ATTN: Jim Baird

36-3s-22w Norton,KS

Graham # 1-36

Start Date: 2011.03.12 @ 12:54:20

End Date: 2011.03.12 @ 16:40:20

Job Ticket #: 041696 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Baird Oil Co LLC

Graham # 1-36

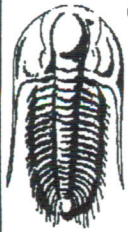
36-3s-22w Norton,KS

DST # 2

A

LKC

2011.03.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton, KS

ATTN: Jim Baird

Job Ticket: 041696 **DST#: 2**

Test Start: 2011.03.12 @ 12:54:20

GENERAL INFORMATION:

Formation: **A LKC**

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

Time Tool Opened: 14:24:40

Time Test Ended: 16:40:20

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3518.00 ft (KB) To 3535.00 ft (KB) (TVD)**

Reference Elevations: 2292.00 ft (KB)

Total Depth: 3535.00 ft (KB) (TVD)

2287.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press@RunDepth: 11.58 psig @ 3519.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.12

End Date: 2011.03.12

Last Calib.: 2011.03.12

Start Time: 13:04:20

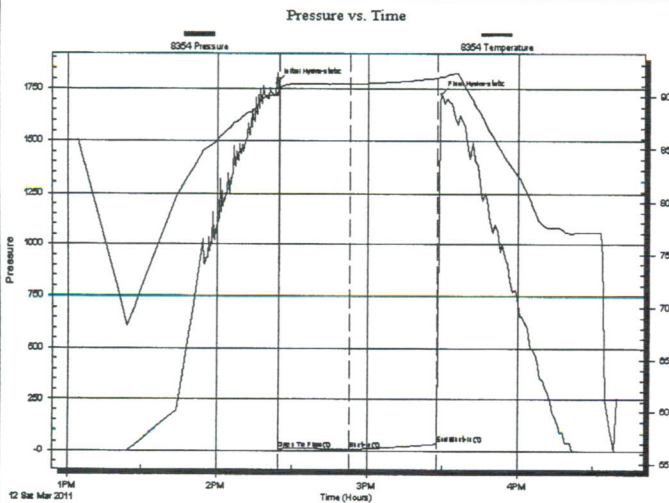
End Time: 16:40:20

Time On Btm: 2011.03.12 @ 14:23:30

Time Off Btm: 2011.03.12 @ 15:29:20

TEST COMMENT: IF-Weak-died in 1 min

Times[30-30]



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.01	90.09	Initial Hydro-static
2	11.31	90.36	Open To Flow (1)
30	11.58	91.19	Shut-In(1)
65	37.65	91.75	End Shut-In(1)
66	1724.84	91.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drig Mud w/oil spots in 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

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

ATTN: Jim Baird

Job Ticket: 041696

DST#: 2

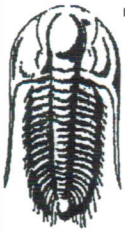
Test Start: 2011.03.12 @ 12:54:20

Tool Information

Drill Pipe:	Length: 3387.00 ft	Diameter: 3.80 inches	Volume: 47.51 bbl	Tool Weight: 2300.00 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: 45000.00 lb
		Total Volume:	48.11 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3518.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			3499.00	
Shut In Tool	5.00			3504.00	
Hydraulic tool	5.00			3509.00	
Packer	5.00			3514.00	20.00 Bottom Of Top Packer
Packer	4.00			3518.00	
Stubb	1.00			3519.00	
Recorder	0.00	8354	Inside	3519.00	
Recorder	0.00	8520	Outside	3519.00	
Perforations	13.00			3532.00	
Bullnose	3.00			3535.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

Job Ticket: 041696 DST#: 2

ATTN: Jim Baird

Test Start: 2011.03.12 @ 12:54:20

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drig Mud w/oil spots in tool	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

DST Test Number: 2

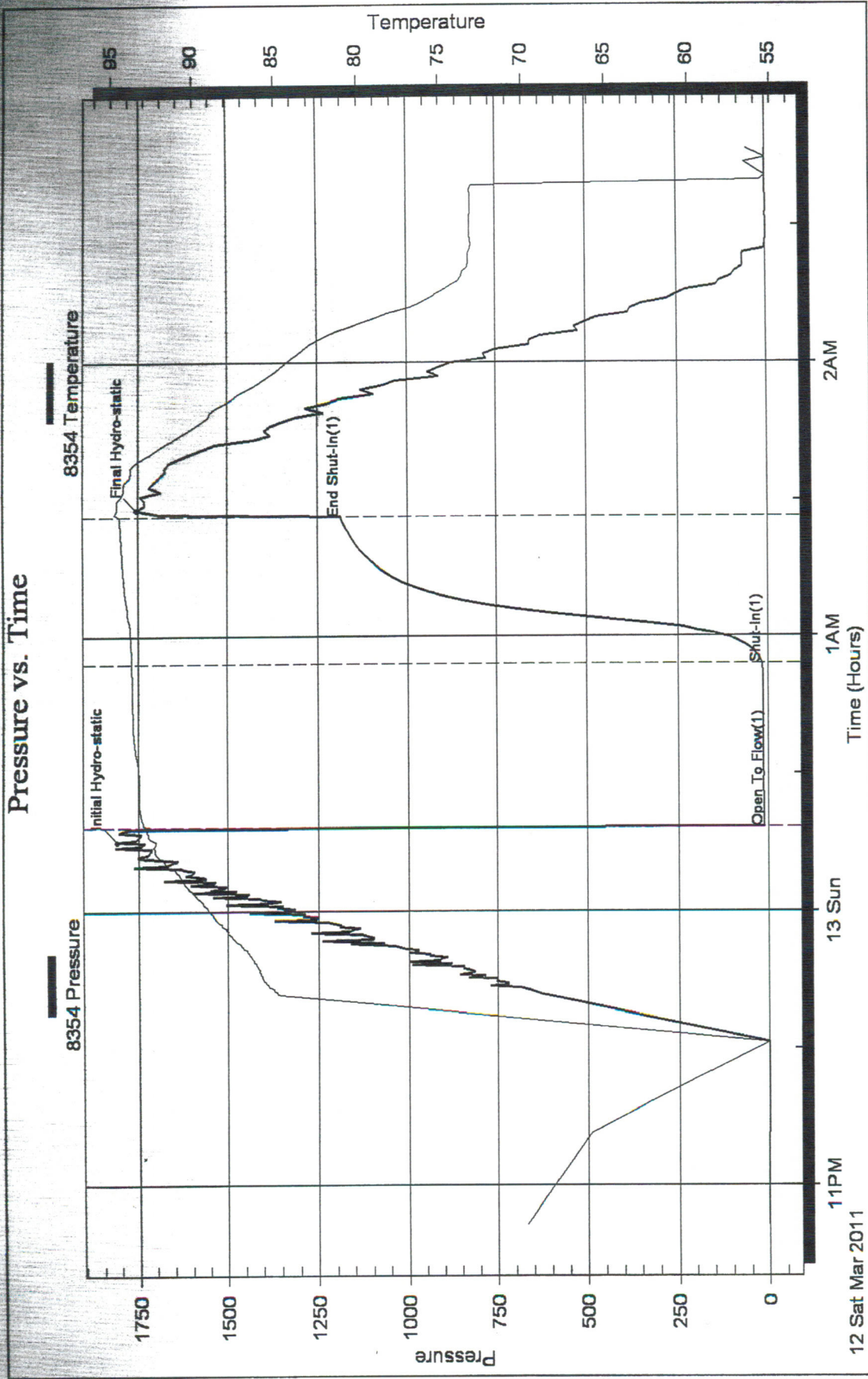
36-39-22w Norton, KS

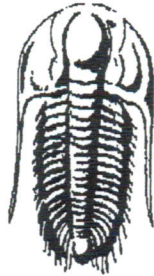
Baird Oil Co LLC

Inside

Serial #: 8354

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428
Logan KS 67646

ATTN: Jim Baird

36-3s-22w Norton,KS

Graham # 1-36

Start Date: 2011.03.12 @ 22:41:22

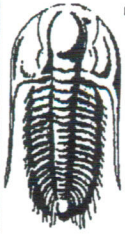
End Date: 2011.03.13 @ 02:46:52

Job Ticket #: 041697 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 Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

ATTN: Jim Baird

Job Ticket: 041697

DST#: 3

Test Start: 2011.03.12 @ 22:41:22

GENERAL INFORMATION:

Formation: **C LKC**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 00:18:12
 Time Test Ended: 02:46:52
 Interval: **3543.00 ft (KB) To 3564.00 ft (KB) (TVD)**
 Total Depth: **3564.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **38**
 Reference Elevations: **2292.00 ft (KB)**
2287.00 ft (CF)
 KB to GR/CF: **5.00 ft**

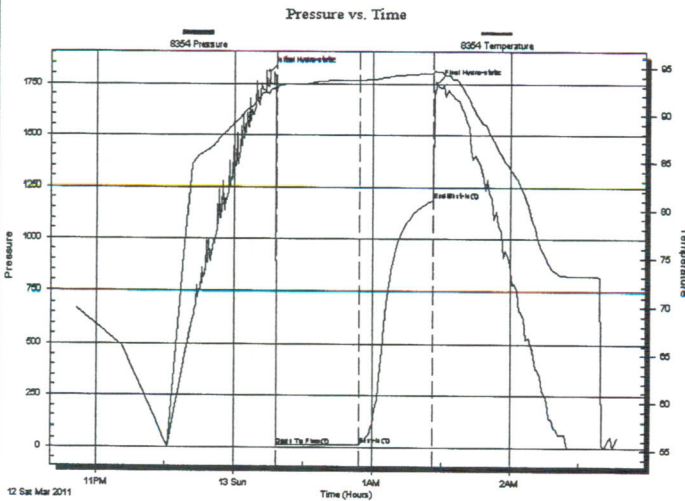
Serial #: 8354

Inside

Press@RunDepth: **15.63 psig @ 3544.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.03.12** End Date: **2011.03.13** Last Calib.: **2011.03.13**
 Start Time: **22:51:22** End Time: **02:46:52** Time On Btm: **2011.03.13 @ 00:15:12**
 Time Off Btm: **2011.03.13 @ 01:27:52**

TEST COMMENT: IF-Weak died in 8 min

Times-[30-30]



PRESSURE SUMMARY

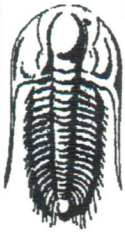
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.50	92.31	Initial Hydro-static
3	11.90	92.52	Open To Flow (1)
39	15.63	93.71	Shut-In(1)
72	1186.97	94.43	End Shut-In(1)
73	1753.36	94.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud w/oil show	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

ATTN: Jim Baird

Job Ticket: 041697

DST#: 3

Test Start: 2011.03.12 @ 22:41:22

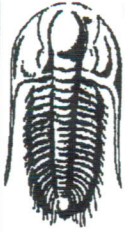
Tool Information

Drill Pipe:	Length: 3418.00 ft	Diameter: 3.80 inches	Volume: 47.95 bbl	Tool Weight: 2300.00 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: 45000.00 lb
			Total Volume: 48.55 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3543.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3524.00	
Shut In Tool	5.00			3529.00	
Hydraulic tool	5.00			3534.00	
Packer	5.00			3539.00	20.00 Bottom Of Top Packer
Packer	4.00			3543.00	
Stubb	1.00			3544.00	
Recorder	0.00	8354	Inside	3544.00	
Recorder	0.00	8520	Outside	3544.00	
Perforations	17.00			3561.00	
Bullnose	3.00			3564.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

Job Ticket: 041697

DST#: 3

ATTN: Jim Baird

Test Start: 2011.03.12 @ 22:41:22

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud w/oil show	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

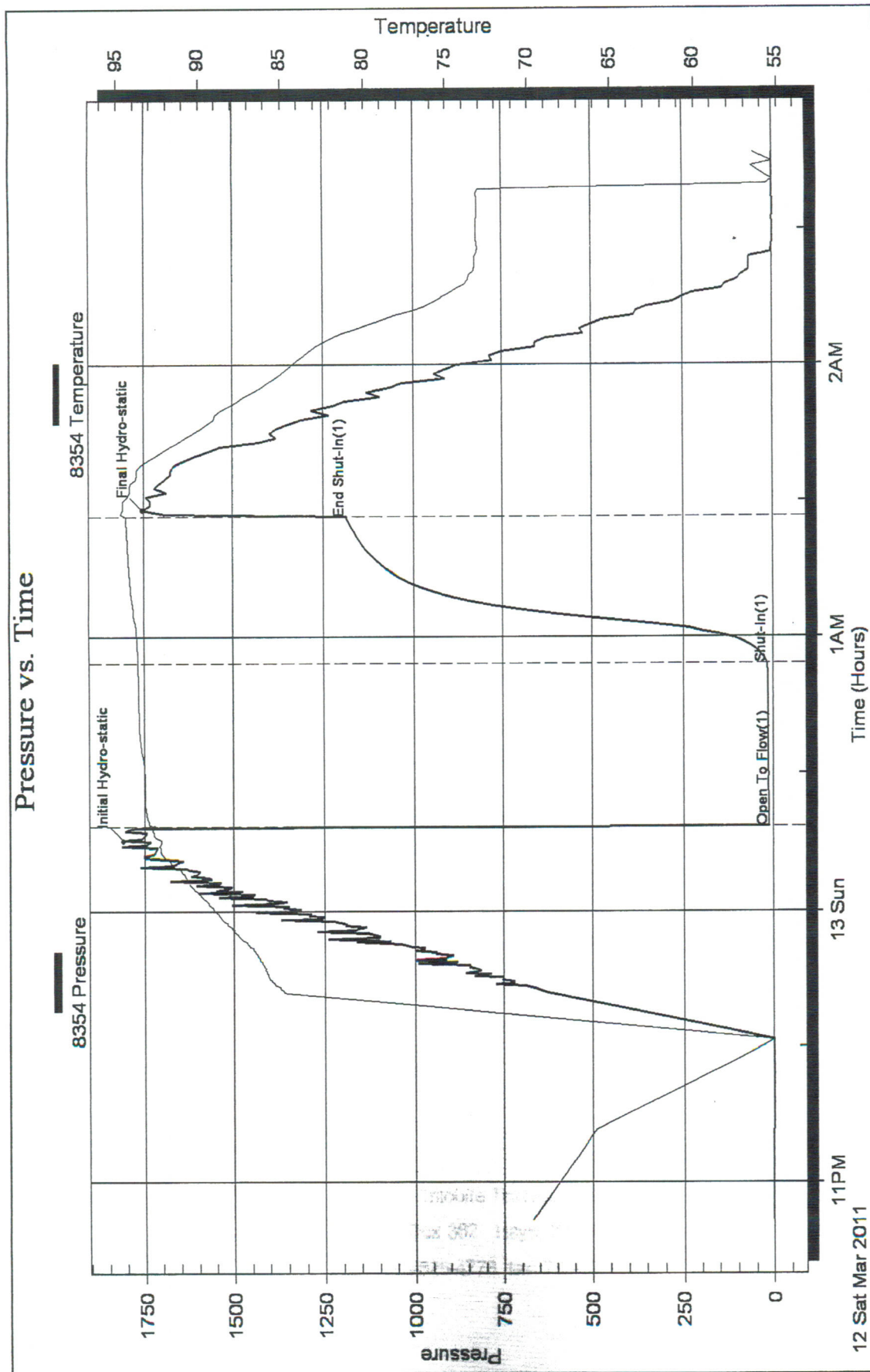
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428
Logan KS 67646

ATTN: Jim Baird

36-3s-22w Norton,KS

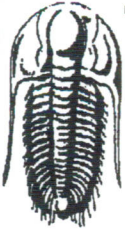
Graham # 1-36

Start Date: 2011.03.13 @ 08:04:33

End Date: 2011.03.13 @ 11:44:33

Job Ticket #: 041698 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

TOOL DIAGRAM

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

Job Ticket: 041698 **DST#: 4**

ATTN: Jim Baird

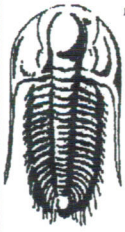
Test Start: 2011.03.13 @ 08:04:33

Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.80 inches	Volume: 48.38 bbl	Tool Weight: 2300.00 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: 48.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3564.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 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			3545.00	
Shut In Tool	5.00			3550.00	
Hydraulic tool	5.00			3555.00	
Packer	5.00			3560.00	20.00 Bottom Of Top Packer
Packer	4.00			3564.00	
Stubb	1.00			3565.00	
Recorder	0.00	8354	Inside	3565.00	
Recorder	0.00	8520	Outside	3565.00	
Perforations	9.00			3574.00	
Bullnose	3.00			3577.00	13.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Graham # 1-36

Box 428
Logan KS 67646

36-3s-22w Norton,KS

Job Ticket: 041698

DST#: 4

ATTN: Jim Baird

Test Start: 2011.03.13 @ 08:04:33

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig 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 #: 8354

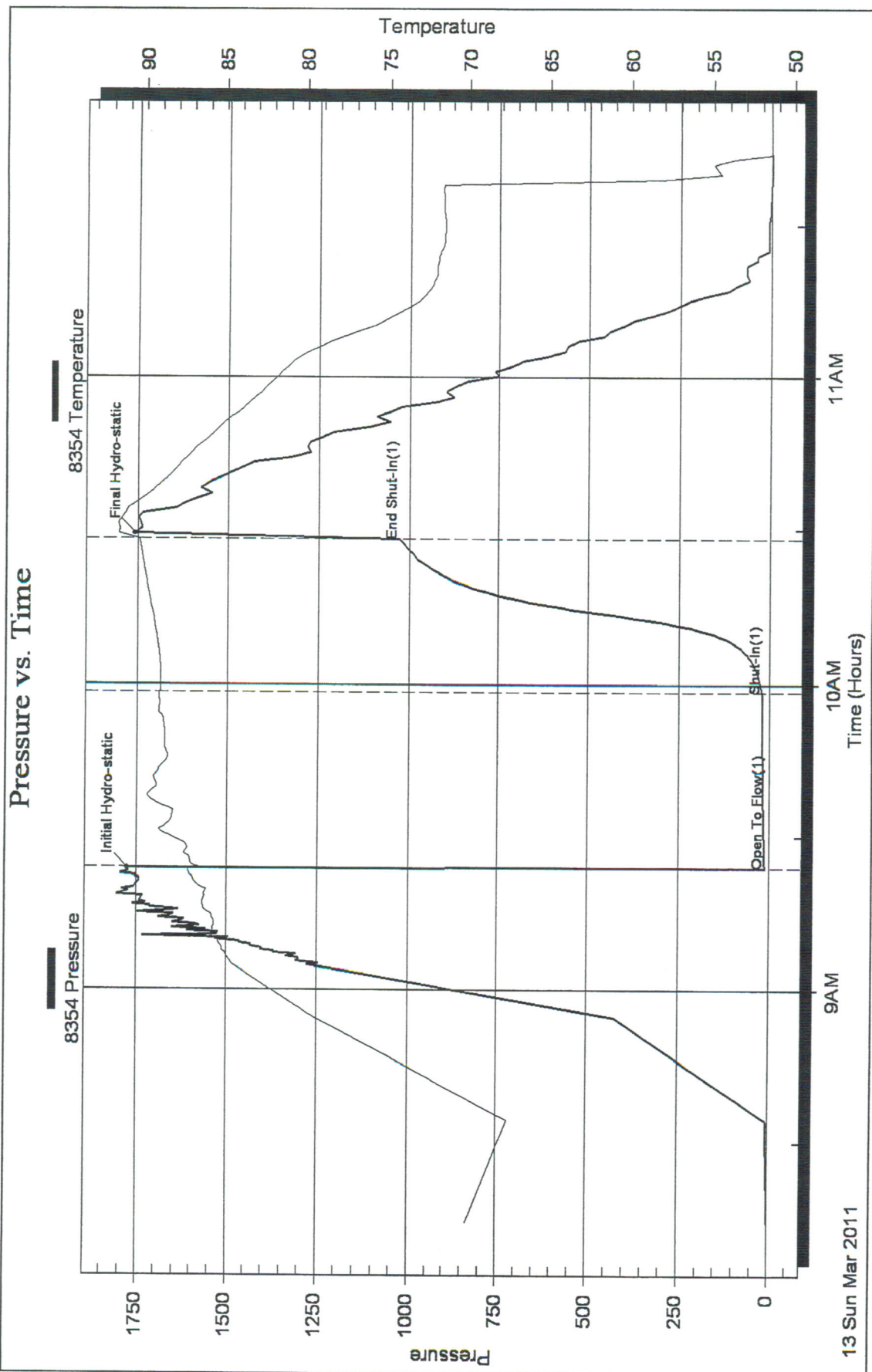
Inside

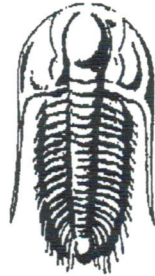
Baird Oil Co LLC

36-3s-22w Norton,KS

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

Box 428
Logan KS 67646

ATTN: Jim Baird

36-3s-22w Norton,KS

Graham # 1-36

Start Date: 2011.03.13 @ 19:10:21

End Date: 2011.03.14 @ 01:02:21

Job Ticket #: 041699 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Baird Oil Co LLC

Graham # 1-36

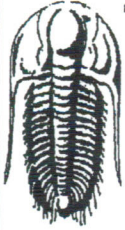
36-3s-22w Norton,KS

DST # 5

E-F-G

LKC

2011.03.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co LLC
Box 428
Logan KS 67646
ATTN: Jim Baird

Graham # 1-36
36-3s-22w Norton,KS
Job Ticket: 041699 **DST#: 5**
Test Start: 2011.03.13 @ 19:10:21

GENERAL INFORMATION:

Formation: **E-F-G LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:40:21
 Time Test Ended: 01:02:21
 Interval: **3577.00 ft (KB) To 3614.00 ft (KB) (TVD)**
 Total Depth: **3614.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2292.00 ft (KB)
 2287.00 ft (CF)
 KB to GR/CF: 5.00 ft

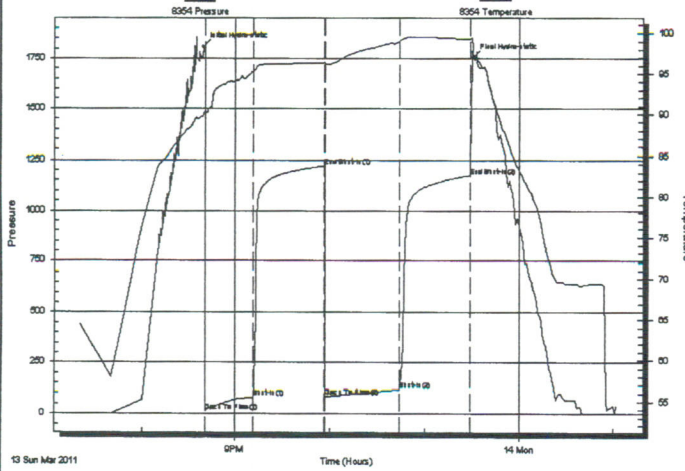
Serial #: 8354

Inside

Press@RunDepth: 117.26 psig @ 3578.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.13 End Date: 2011.03.14 Last Calib.: 2011.03.14
 Start Time: 19:20:21 End Time: 01:02:21 Time On Btrm: 2011.03.13 @ 20:39:11
 Time Off Btrm: 2011.03.13 @ 23:30:21

TEST COMMENT: IF-Weak building to 6" fair blow
 FF-Weak building to 3"
 Times[30-45-45-45]

Pressure vs. Time



PRESSURE SUMMARY

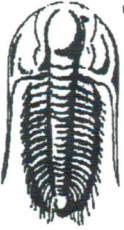
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1807.50	90.03	Initial Hydro-static
2	13.12	89.24	Open To Flow (1)
33	78.97	95.32	Shut-In(1)
78	1221.13	96.38	End Shut-In(1)
79	82.09	96.12	Open To Flow (2)
125	117.26	99.02	Shut-In(2)
170	1174.18	99.33	End Shut-In(2)
172	1756.39	98.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Mdy Wtr	1.48
5.00	CO	0.07

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

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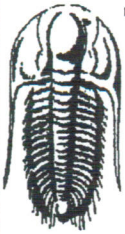
Test Start: 2011.03.13 @ 19:10:21

Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.80 inches	Volume: 48.38 bbl	Tool Weight: 2300.00 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: 48.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3577.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	37.00 ft			
Tool Length:	57.00 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			3558.00	
Shut In Tool	5.00			3563.00	
Hydraulic tool	5.00			3568.00	
Packer	5.00			3573.00	20.00 Bottom Of Top Packer
Packer	4.00			3577.00	
Stubb	1.00			3578.00	
Recorder	0.00	8354	Inside	3578.00	
Recorder	0.00	8520	Outside	3578.00	
Perforations	33.00			3611.00	
Bullnose	3.00			3614.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Job Ticket: 041699

DST#: 5

Test Start: 2011.03.13 @ 19:10:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Mdy Wtr	1.484
5.00	CO	0.070

Total Length: 190.00 ft Total Volume: 1.554 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .1 @ 80 = 70000ppm

Pressure vs. Time

