

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.04 @ 15:10:14

End Date: 2010.04.04 @ 21:22:08

Job Ticket #: 38125 DST #: 1

**KCC
JUN 12 2010
CONFIDENTIAL**

**RECEIVED
KANSAS CORPORATION COMMISSION**

JUN 11 2010

**CONSERVATION DIVISION
WICHITA, KS**

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

Baird Oil Co., LLC

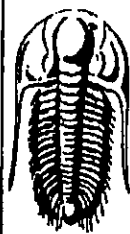
Thurlow #1-1

1-7s-22w Graham KS

DST # 1

Toronto

2010.04.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

Thurlow #1-1

1-7s-22w Graham KS

Job Ticket: 38125 DST#: 1

Test Start: 2010.04.04 @ 15:10:14

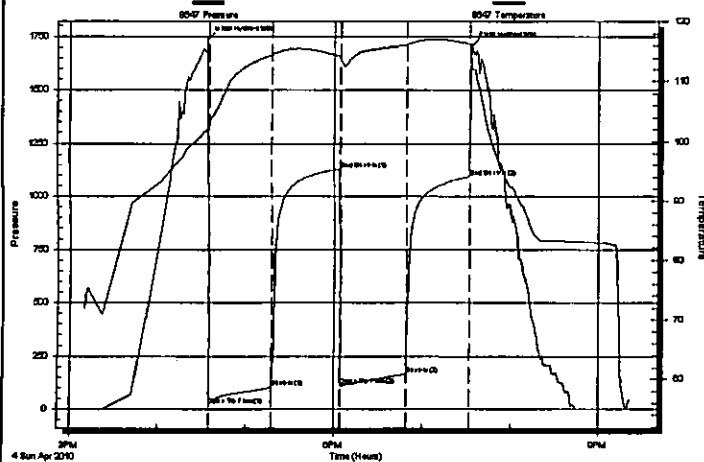
GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 16:34:39
 Time Test Ended: 21:22:08
 Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Interval: **3452.00 ft (KB) To 3479.00 ft (KB) (TVD)**
 Reference Elevations: **2244.00 ft (KB)**
 Total Depth: **3479.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **KB to GR/CF: 5.00 ft**

Serial #: 8647 **Inside**
 Press@RunDepth: **164.72 psig @ 3456.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.04.04** End Date: **2010.04.04** Last Calib.: **2010.04.04**
 Start Time: **15:10:14** End Time: **21:22:08** Time On Btm: **2010.04.04 @ 16:33:39**
 Time Off Btm: **2010.04.04 @ 19:33:08**

TEST COMMENT: IFP - BOB 11 min.
 ISI - sur blow back throughout
 FFP - BOB 14 min.
 FSI - sur blow back throughout

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.40	102.13	Initial Hydro-static
1	17.78	102.05	Open To Flow (1)
44	100.53	114.53	Shut-In(1)
90	1127.80	114.30	End Shut-In(1)
91	109.96	113.61	Open To Flow (2)
136	164.72	116.10	Shut-In(2)
178	1092.75	116.31	End Shut-In(2)
180	1708.50	112.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOOM 10%G, 30%O, 60%M	0.30
390.00	G FREE OIL 10%G, 85%O, 5%M	4.90
0.00	40' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38125 DST#: 1

ATTN: Rich Bell

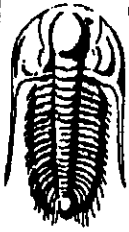
Test Start: 2010.04.04 @ 15:10:14

Tool Information

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.20 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3452.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:	Tool sild 5' to bottom			

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

Shut In Tool	5.00			3437.00	
Hydraulic tool	5.00			3442.00	
Packer	5.00			3447.00	20.00 Bottom Of Top Packer
Packer	5.00			3452.00	
Stubb	1.00			3453.00	
Perforations	3.00			3456.00	
Recorder	0.00	8647	Inside	3456.00	
Recorder	0.00	8371	Outside	3456.00	
Perforations	20.00			3476.00	
Bullnose	3.00			3479.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38125 DST#: 1

ATTN: Rich Bell

Test Start: 2010.04.04 @ 15:10:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 67.00 sec/qt
Water Loss: 6.70 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: inches

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

Oil API: 25 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

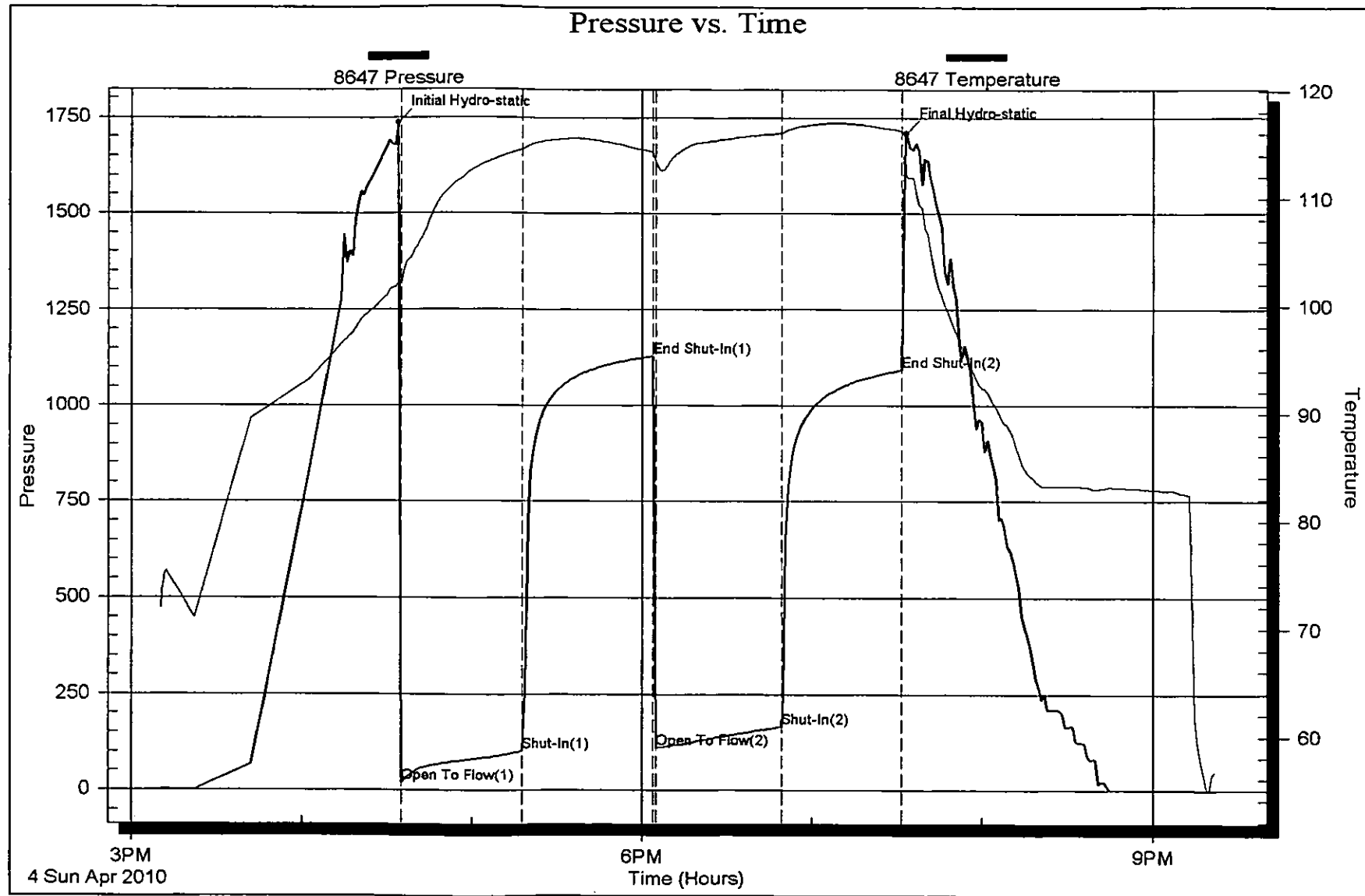
Length ft	Description	Volume bbl
60.00	GHOCM 10%G, 30%O, 60%M	0.295
390.00	G FREE OIL 10%G, 85%O, 5%M	4.897
0.00	40' GIP	0.000

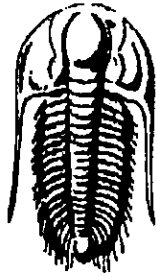
Total Length: 450.00ft Total Volume: 5.192 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.05 @ 03:04:51

End Date: 2010.04.05 @ 08:55:45

Job Ticket #: 38151 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co., LLC

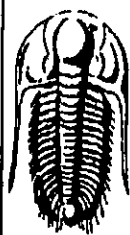
Thurlow #1-1

1-7s-22w Graham KS

DST # 2

LKC "A"

2010.04.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38151 DST#: 2

ATTN: Rich Bell

Test Start: 2010.04.05 @ 03:04:51

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:16

Time Test Ended: 08:55:45

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3478.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

2239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 335.82 psig @ 3482.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.05

End Date:

2010.04.05

Last Calib.: 2010.04.05

Start Time: 03:04:51

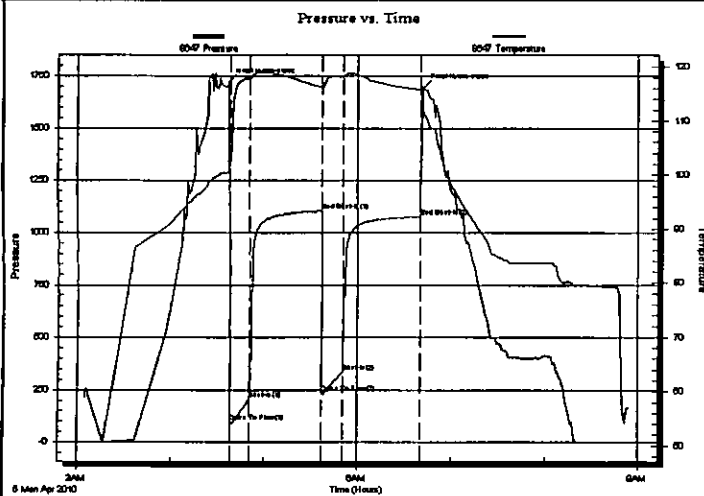
End Time:

08:55:45

Time On Btm: 2010.04.05 @ 04:37:16

Time Off Btm: 2010.04.05 @ 06:41:46

TEST COMMENT: IFP - BOB 45 sec.
ISI - BOB 8 min.
FFP - BOB 1 min.
FSI - BOB 24 min.



PRESSURE SUMMARY

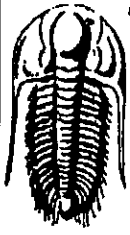
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.65	100.87	Initial Hydro-static
1	95.13	102.12	Open To Flow (1)
14	205.92	117.94	Shut-In (1)
60	1104.33	116.19	End Shut-In (1)
60	235.25	115.58	Open To Flow (2)
74	335.82	118.22	Shut-In (2)
123	1079.11	115.79	End Shut-In (2)
125	1695.71	111.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOOM 5%G, 30%O, 65%M	0.30
60.00	GMOO 5%G, 65%O, 30%M	0.30
750.00	REVERSED OUT OIL	10.49
90.00	FREE OIL 95%O, 5%M	1.26
0.00	1115' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38151

DST#: 2

ATTN: Rich Bell

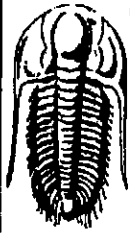
Test Start: 2010.04.05 @ 03:04:51

Tool Information

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 47.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3478.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3463.00	
Hydraulic tool	5.00			3468.00	
Packer	5.00			3473.00	20.00 Bottom Of Top Packer
Packer	5.00			3478.00	
Stubb	1.00			3479.00	
Perforations	3.00			3482.00	
Recorder	0.00	8647	Inside	3482.00	
Recorder	0.00	8371	Outside	3482.00	
Perforations	15.00			3497.00	
Bullnose	3.00			3500.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38151

DST#: 2

ATTN: Rich Bell

Test Start: 2010.04.05 @ 03:04:51

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 67.00 sec/qt
Water Loss: 6.70 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: inches

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

Oil API: 36 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM 5%G, 30%O, 65%M	0.295
60.00	GMCO 5%G, 65%O, 30%M	0.295
750.00	REVERSED OUT OIL	10.493
90.00	FREE OIL 95%O, 5%M	1.262
0.00	1115' GIP	0.000

Total Length: 960.00 ft Total Volume: 12.345 bbl

Num Fluid Samples: 0

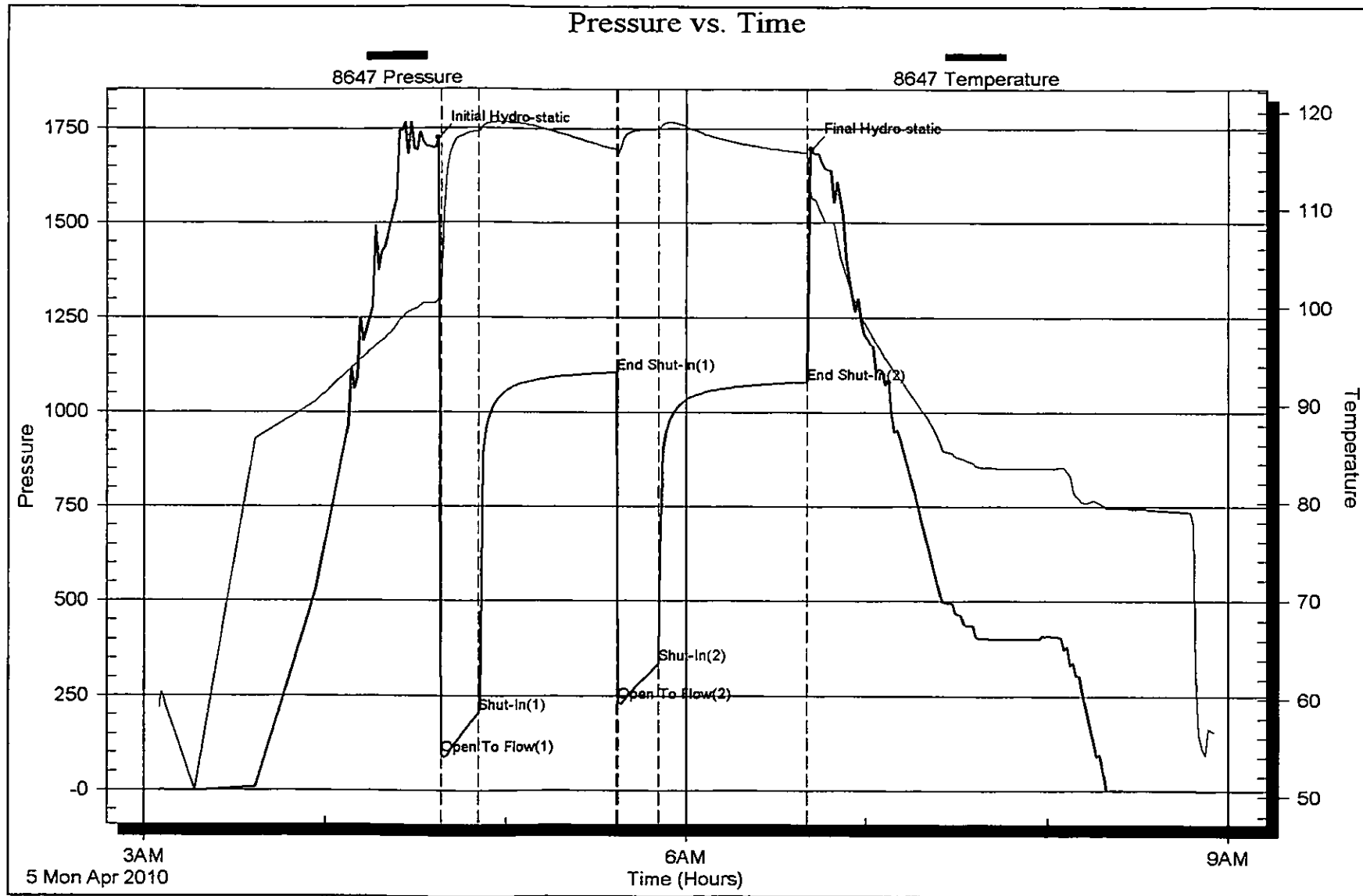
Num Gas Bombs: 0

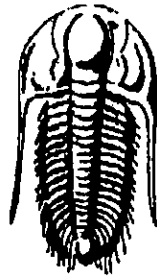
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.05 @ 14:02:59

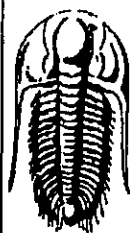
End Date: 2010.04.05 @ 19:55:53

Job Ticket #: 38152 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: Rich Bell

Thurlow #1-1

1-7s-22w Graham KS

Job Ticket: 38152 DST#: 3

Test Start: 2010.04.05 @ 14:02:59

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 15:18:54
Time Test Ended: 19:55:53

Test Type: **Conventional Bottom Hole**
Tester: **Brian Fairbank**
Unit No: **41**

Interval: **3505.00 ft (KB) To 3521.00 ft (KB) (TVD)**
Total Depth: **3521.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8647

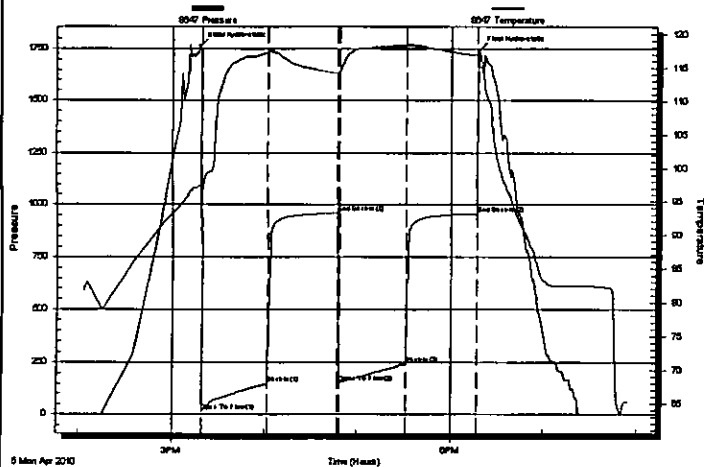
Inside

Press@RunDepth: **241.24 psig @ 3508.00 ft (KB)**
Start Date: **2010.04.05** End Date: **2010.04.05**
Start Time: **14:02:59** End Time: **19:55:53**

Capacity: **8000.00 psig**
Last Calib.: **2010.04.05**
Time On Btrt: **2010.04.05 @ 15:17:24**
Time Off Btrt: **2010.04.05 @ 18:17:54**

TEST COMMENT: IFP - BOB 16 min.
ISI - sur blow back throughout
FFP - BOB 16 min.
FSI - sur blow back throughout

Pressure vs. Time



PRESSURE SUMMARY

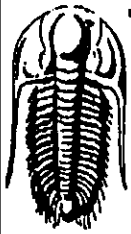
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.96	97.40	Initial Hydro-static
2	16.96	96.68	Open To Flow (1)
45	148.39	117.31	Shut-In(1)
90	961.33	114.20	End Shut-In(1)
91	152.28	114.15	Open To Flow (2)
134	241.24	118.23	Shut-In(2)
180	957.73	116.90	End Shut-In(2)
181	1743.26	116.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 10%O, 90%M	0.05
425.00	VSOCMV 3%O, 87%W, 10%M	4.93
90.00	FREE OIL 95%O, 5%M	1.26
0.00	40' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38152

DST#: 3

ATTN: Rich Bell

Test Start: 2010.04.05 @ 14:02:59

Tool Information

Drill Pipe:	Length: 3384.00 ft	Diameter: 3.80 inches	Volume: 47.47 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 48.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3505.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3490.00	
Hydraulic tool	5.00			3495.00	
Packer	5.00			3500.00	20.00 Bottom Of Top Packer
Packer	5.00			3505.00	
Stubb	1.00			3506.00	
Perforations	2.00			3508.00	
Recorder	0.00	8647	Inside	3508.00	
Recorder	0.00	8371	Outside	3508.00	
Perforations	10.00			3518.00	
Bullnose	3.00			3521.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38152 DST#: 3

ATTN: Rich Bell

Test Start: 2010.04.05 @ 14:02:59

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.50 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: inches

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

Oil API: 23 deg API
Water Salinity: 28000 ppm

Recovery Information

Recovery Table

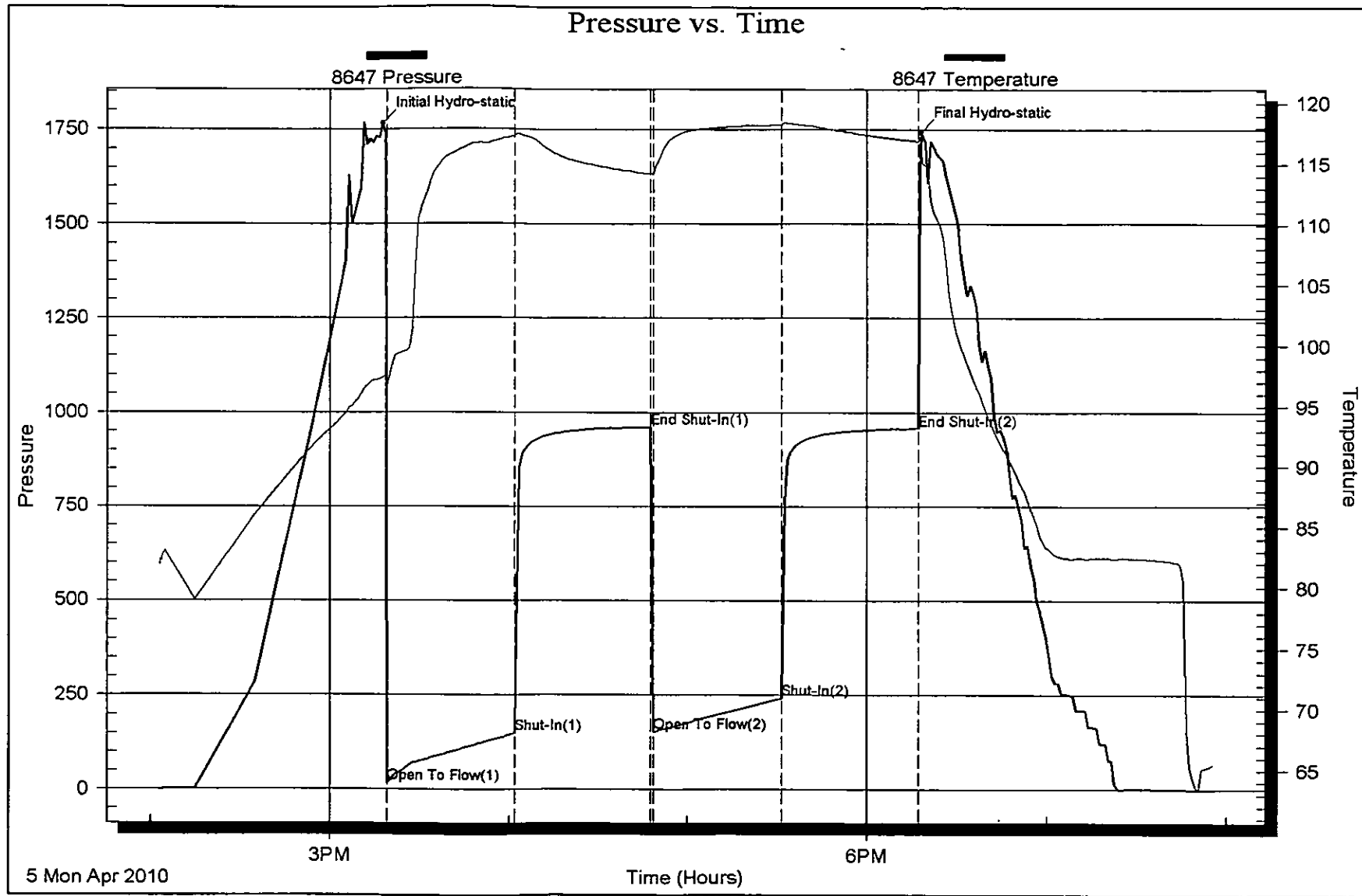
Length ft	Description	Volume bbl
10.00	SOCM 10%O, 90%M	0.049
425.00	VSOCMV 3%O, 87%W, 10%M	4.932
90.00	FREE OIL 95%O, 5%M	1.262
0.00	40' GIP	0.000

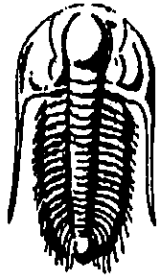
Total Length: 525.00 ft Total Volume: 6.243 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .275 @ 65F = 28000 ppm chlorides





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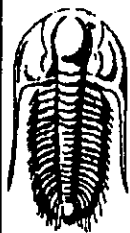
Thurlow #1-1

Start Date: 2010.04.06 @ 00:53:23

End Date: 2010.04.06 @ 06:45:47

Job Ticket #: 38153 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: Rich Bell

Thurlow #1-1

1-7s-22w Graham KS

Job Ticket: 38153 DST#: 4

Test Start: 2010.04.06 @ 00:53:23

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 02:26:48
 Time Test Ended: 06:45:47

Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**

Interval: **3526.00 ft (KB) To 3543.00 ft (KB) (TVD)**
 Total Depth: **3543.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8647

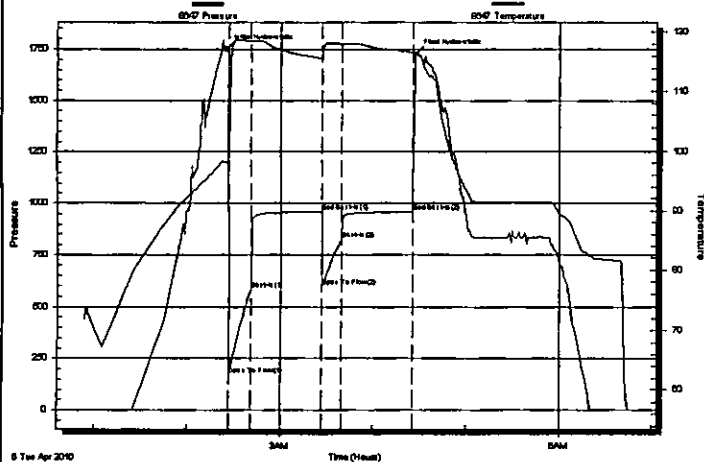
Inside

Press@RunDepth: **823.05 psig @ 3530.00 ft (KB)**
 Start Date: **2010.04.06** End Date: **2010.04.06**
 Start Time: **00:53:23** End Time: **06:45:47**

Capacity: **8000.00 psig**
 Last Calib.: **2010.04.06**
 Time On Btm: **2010.04.06 @ 02:25:18**
 Time Off Btm: **2010.04.06 @ 04:27:18**

TEST COMMENT: IFP - BOB 45 sec.
 ISI - 1 1/4" blow back
 FFP - BOB 45 sec.
 FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

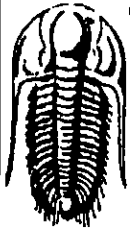
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.19	98.17	Initial Hydro-static
2	170.89	99.43	Open To Flow (1)
16	583.35	118.36	Shut-In(1)
62	960.31	115.67	End Shut-In(1)
62	598.37	116.14	Open To Flow (2)
75	823.05	117.98	Shut-In(2)
121	959.16	116.65	End Shut-In(2)
122	1729.40	116.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 60%W, 40%M	0.59
1555.00	reversed out w water	21.79
30.00	GMW 5%G, 85%W, 10%M	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38153

DST#: 4

ATTN: Rich Bell

Test Start: 2010.04.06 @ 00:53:23

Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3526.00 ft			Final 47000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3511.00	
Hydraulic tool	5.00			3516.00	
Packer	5.00			3521.00	20.00 Bottom Of Top Packer
Packer	5.00			3526.00	
Stubb	1.00			3527.00	
Perforations	3.00			3530.00	
Recorder	0.00	8647	Inside	3530.00	
Recorder	0.00	8371	Outside	3530.00	
Perforations	10.00			3540.00	
Bullnose	3.00			3543.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38153 DST#: 4

ATTN: Rich Bell

Test Start: 2010.04.06 @ 00:53:23

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:

40000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.52 in³

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
120.00	MW 60%W, 40%M	0.590
1555.00	reversed out w ater	21.785
30.00	GMW 5%G, 85%W, 10%M	0.421

Total Length: 1705.00 ft

Total Volume: 22.796 bbl

Num Fluid Samples: 0

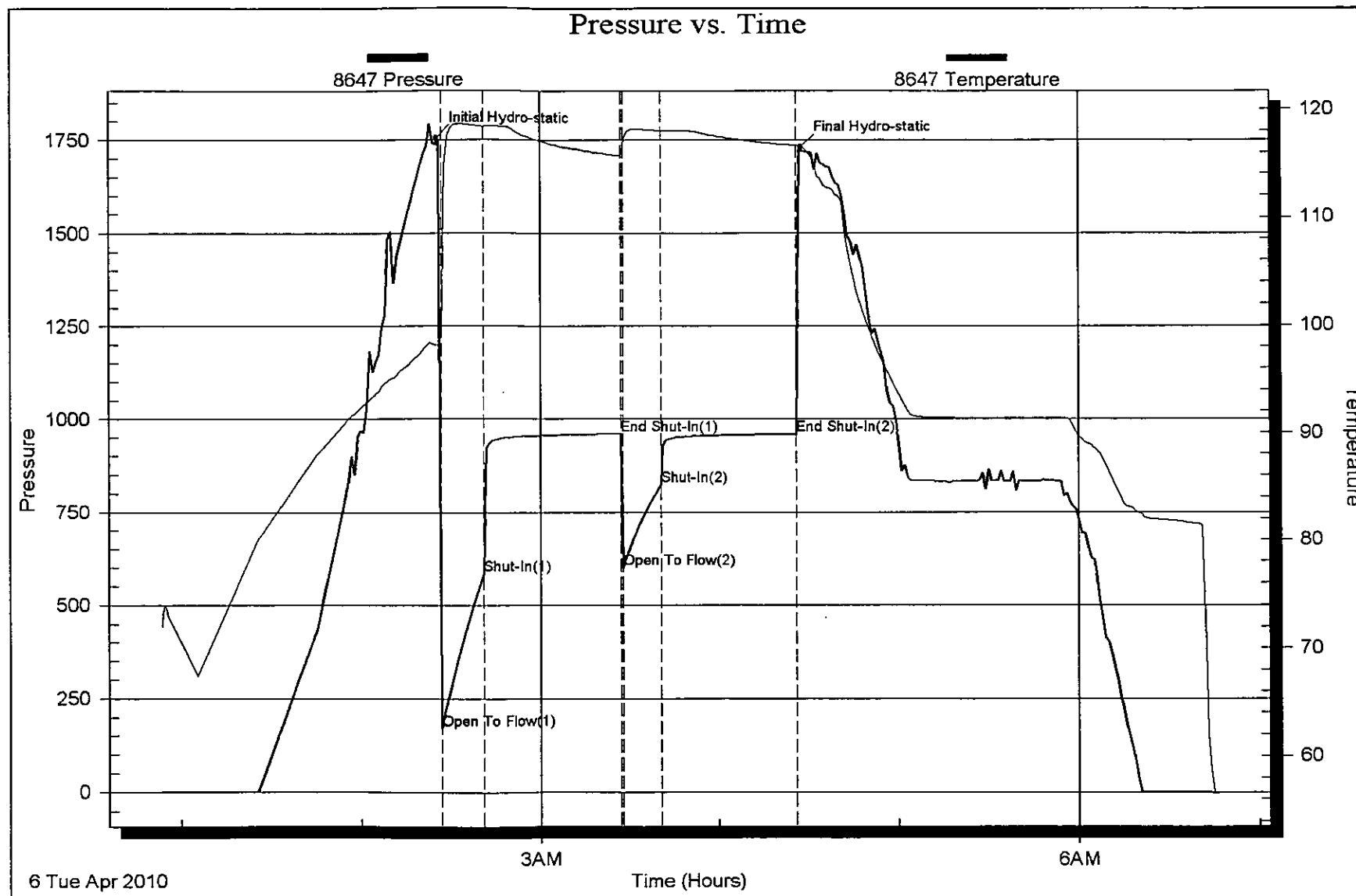
Num Gas Bombs: 0

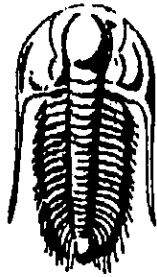
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.06 @ 12:14:52

End Date: 2010.04.06 @ 17:57:46

Job Ticket #: 38154 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2010.04.19 @ 15:13:01 Page 1

Baird Oil Co., LLC

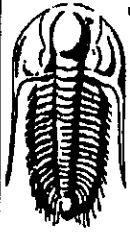
Thurlow #1-1

1-7s-22w Graham KS

DST # 5

LKC "E-F"

2010.04.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

Thurlow #1-1

1-7s-22w Graham KS

Job Ticket: 38154 DST#: 5

Test Start: 2010.04.06 @ 12:14:52

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 13:41:17
 Time Test Ended: 17:57:46

Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**

Interval: **3543.00 ft (KB) To 3565.00 ft (KB) (TVD)**
 Total Depth: **3565.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8647

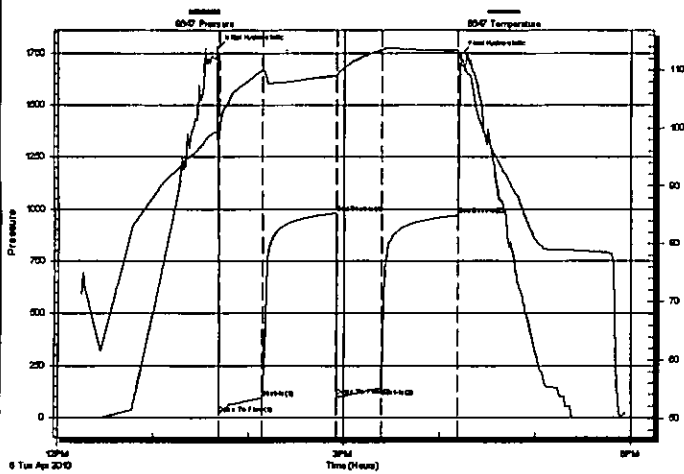
Inside

Press@RunDepth: **140.58 psig @ 3547.00 ft (KB)**
 Start Date: **2010.04.06** End Date: **2010.04.06**
 Start Time: **12:14:52** End Time: **17:57:46**

Capacity: **8000.00 psig**
 Last Calib.: **2010.04.06**
 Time On Btm: **2010.04.06 @ 13:40:17**
 Time Off Btm: **2010.04.06 @ 16:12:47**

TEST COMMENT: IFP - BOB 9 min.
 ISI - 2 1/2" blow back throughout
 FFP - BOB 9 min.
 FSI - 4 1/2" blow back throughout

Pressure vs. Time



PRESSURE SUMMARY

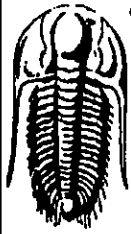
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.44	99.56	Initial Hydro-static
1	18.99	99.16	Open To Flow (1)
29	93.98	110.04	Shut-In(1)
75	979.42	109.05	End Shut-In(1)
76	101.84	108.99	Open To Flow (2)
103	140.58	113.44	Shut-In(2)
151	969.53	113.31	End Shut-In(2)
153	1743.54	111.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GO&MCW 10%G, 5%O, 70%W, 15%M	0.30
105.00	OCM 20%O, 80%M	0.90
160.00	FREE OIL 95%O, 5%M	2.24
0.00	355 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38154

DST#: 5

ATTN: Rich Bell

Test Start: 2010.04.06 @ 12:14:52

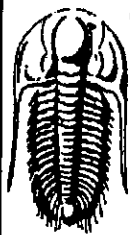
Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 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:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Packer	5.00			3538.00	20.00 Bottom Of Top Packer
Packer	5.00			3543.00	
Stubb	1.00			3544.00	
Perforations	3.00			3547.00	
Recorder	0.00	8647	Inside	3547.00	
Recorder	0.00	8371	Outside	3547.00	
Perforations	15.00			3562.00	
Bullnose	3.00			3565.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38154 DST#: 5

ATTN: Rich Bell

Test Start: 2010.04.06 @ 12:14:52

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: 28000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.53 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

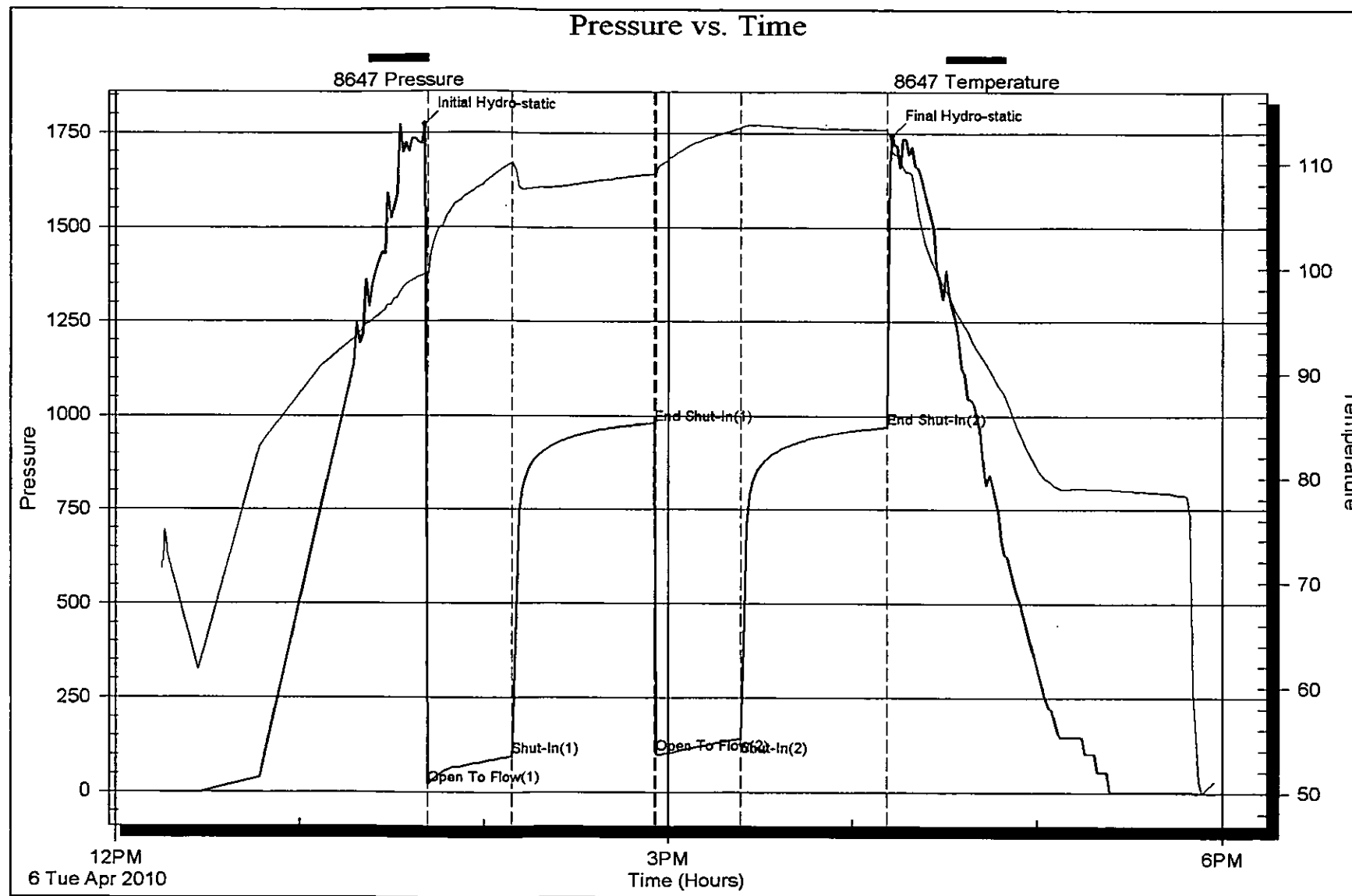
Length ft	Description	Volume bbl
60.00	GO&MCW 10%G, 5%O, 70%W, 15%M	0.295
105.00	OCM 20%O, 80%M	0.899
160.00	FREE OIL 95%O, 5%M	2.244
0.00	355 GIP	0.000

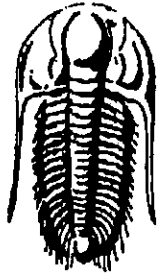
Total Length: 325.00 ft Total Volume: 3.438 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.07 @ 01:45:00

End Date: 2010.04.07 @ 05:57:55

Job Ticket #: 38155 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co., LLC

Thurlow #1-1

1-7s-22w Graham KS

DST # 6

LKC "1"

2010.04.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

Thurlow #1-1

1-7s-22w Graham KS

Job Ticket: 38155 DST#: 6

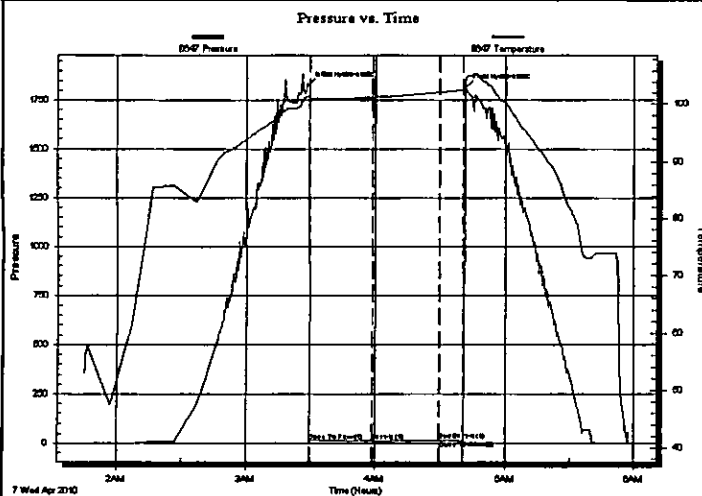
Test Start: 2010.04.07 @ 01:45:00

GENERAL INFORMATION:

Formation: **LKC "I"**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **03:29:25**
 Time Test Ended: **05:57:55**
 Interval: **3619.00 ft (KB) To 3636.00 ft (KB) (TVD)**
 Total Depth: **3636.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **KB to GR/CF: 5.00 ft**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)

Serial #: 8647 **Inside**
 Press@RunDepth: **12.35 psig @ 3623.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.04.07** End Date: **2010.04.07** Last Calib.: **2010.04.07**
 Start Time: **01:45:00** End Time: **05:57:55** Time On Btm: **2010.04.07 @ 03:28:25**
 Time Off Btm: **2010.04.07 @ 04:41:25**

TEST COMMENT: IFP - 1/4" intermittent blow
 ISI - no blow back
 FFP - no blow
TIME - 30-30-10



PRESSURE SUMMARY

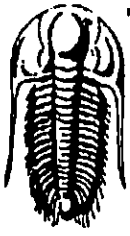
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.86	101.43	Initial Hydro-static
1	11.72	100.93	Open To Flow (1)
30	12.35	101.27	Shut-In(1)
61	13.73	102.20	End Shut-In(1)
62	12.64	102.22	Open To Flow (2)
72	13.22	102.60	Shut-In(2)
73	1818.56	104.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCM 10%O, 90%M	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

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38155

DST#: 6

ATTN: Rich Bell

Test Start: 2010.04.07 @ 01:45:00

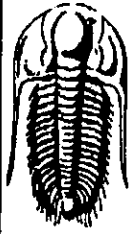
Tool Information

Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 49.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3619.00 ft			Final 41000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3604.00	
Hydraulic tool	5.00			3609.00	
Packer	5.00			3614.00	20.00 Bottom Of Top Packer
Packer	5.00			3619.00	
Stubb	1.00			3620.00	
Perforations	3.00			3623.00	
Recorder	0.00	8647	Inside	3623.00	
Recorder	0.00	8371	Outside	3623.00	
Perforations	10.00			3633.00	
Bullnose	3.00			3636.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC
PO Box 428
Logan, KS 67646
ATTN: Rich Bell

Thurlow #1-1
1-7s-22w Graham KS
Job Ticket: 38155 DST#: 6
Test Start: 2010.04.07 @ 01:45:00

Mud and Cushion Information

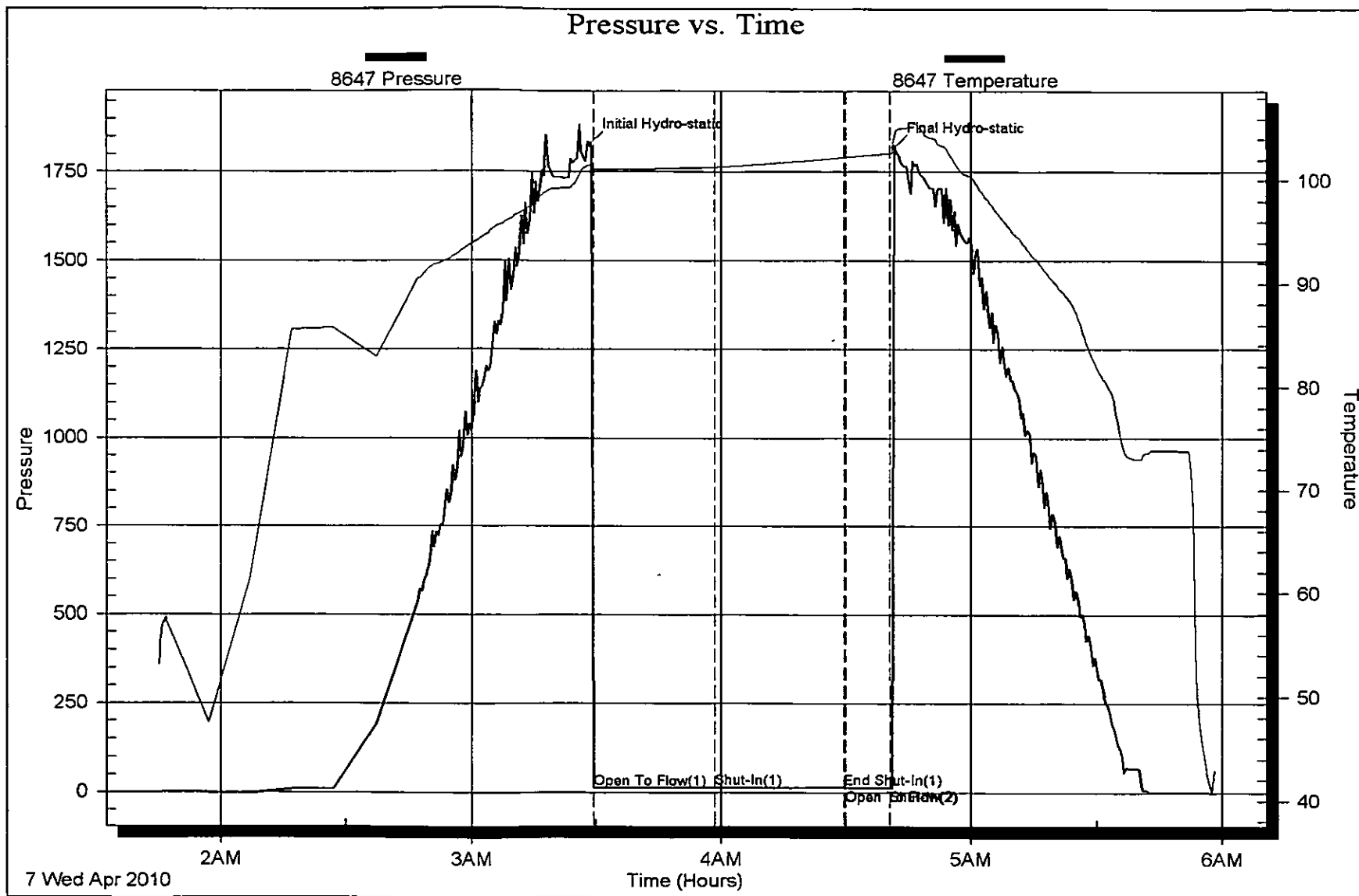
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.93 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

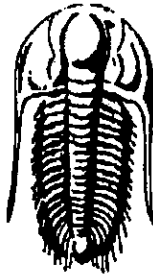
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	SOCM 10%O, 90%M	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:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.07 @ 12:54:44

End Date: 2010.04.07 @ 18:52:14

Job Ticket #: 38156 DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co., LLC

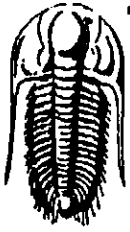
Thurlow #1-1

1-7s-22w Graham KS

DST # 7

LKC "K"

2010.04.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38156 **DST#: 7**

ATTN: Rich Bell

Test Start: 2010.04.07 @ 12:54:44

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 14:27:14
 Time Test Ended: 18:52:14

Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**

Interval: **3644.00 ft (KB) To 3664.00 ft (KB) (TVD)**
 Total Depth: **3664.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)
 KB to GR/CF: **5.00 ft**

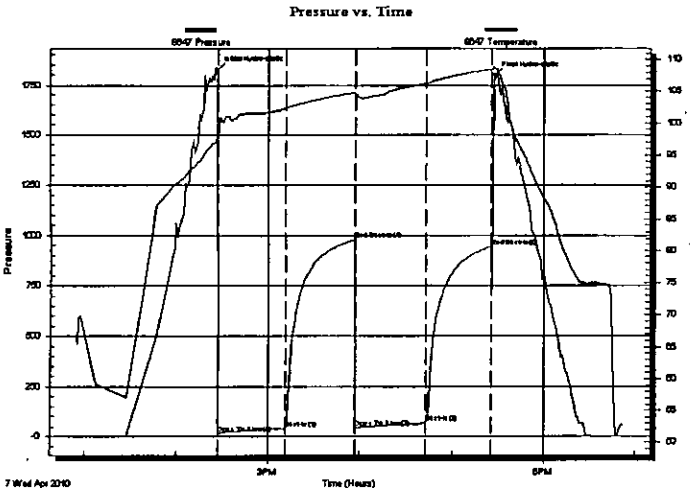
Serial #: 8647

Inside

Press@RunDepth: **66.66 psig @ 3646.00 ft (KB)**
 Start Date: **2010.04.07** End Date: **2010.04.07**
 Start Time: **12:54:49** End Time: **18:52:13**

Capacity: **8000.00 psig**
 Last Calib.: **2010.04.07**
 Time On Btm: **2010.04.07 @ 14:26:14**
 Time Off Btm: **2010.04.07 @ 17:27:44**

TEST COMMENT: IFP - weak blow throughout sur - 2"
 ISI - no blow back
 FFP - no blow 6 min - 1/2"
 FSI - no blow back



PRESSURE SUMMARY

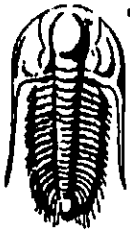
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.15	97.84	Initial Hydro-static
1	16.25	97.77	Open To Flow (1)
45	40.93	102.24	Shut-In(1)
91	978.43	104.82	End Shut-In(1)
91	44.16	104.55	Open To Flow (2)
137	66.66	106.28	Shut-In(2)
180	943.91	108.42	End Shut-In(2)
182	1797.86	108.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 70%W, 30%M	0.30
15.00	VM 20%W, 80%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38156

DST#: 7

ATTN: Rich Bell

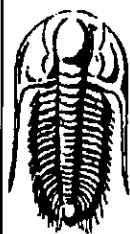
Test Start: 2010.04.07 @ 12:54:44

Tool Information

Drill Pipe:	Length: 3508.00 ft	Diameter: 3.80 inches	Volume: 49.21 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 49.81 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3644.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3629.00	
Hydraulic tool	5.00			3634.00	
Packer	5.00			3639.00	20.00 Bottom Of Top Packer
Packer	5.00			3644.00	
Stubb	1.00			3645.00	
Perforations	1.00			3646.00	
Recorder	0.00	8647	Inside	3646.00	
Recorder	0.00	8371	Outside	3646.00	
Perforations	15.00			3661.00	
Bullnose	3.00			3664.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38156 DST#: 7

ATTN: Rich Bell

Test Start: 2010.04.07 @ 12:54:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.95 in³
Resistivity: ohm.m
Salinity: 3800.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: 31000 ppm

Recovery Information

Recovery Table

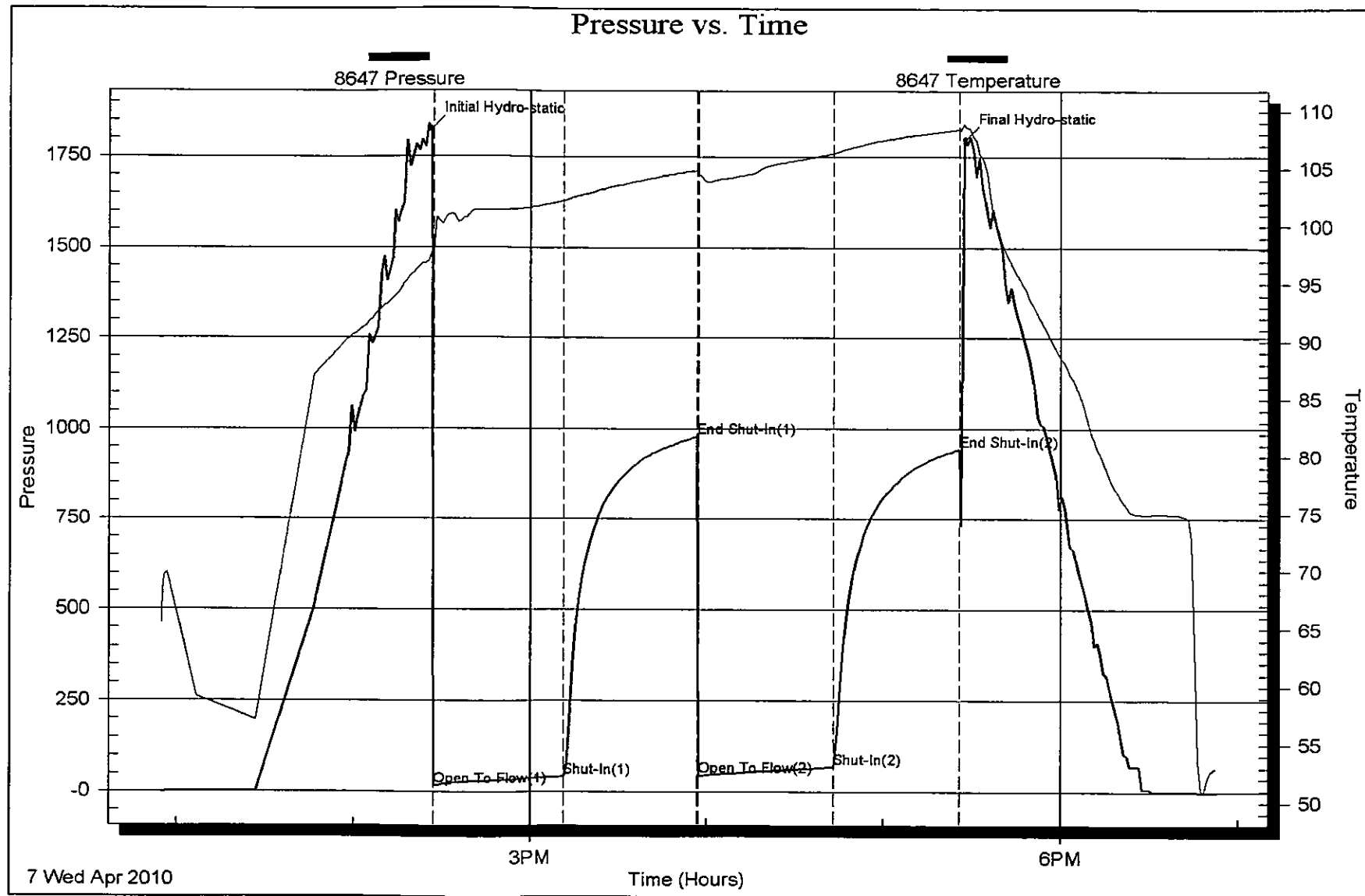
Length ft	Description	Volume bbl
60.00	MW 70%W, 30%M	0.295
15.00	VM 20%W, 80%M	0.074

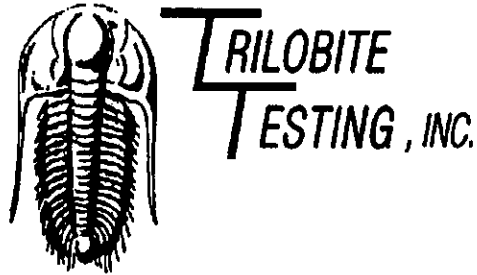
Total Length: 75.00 ft Total Volume: 0.369 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .314 @ 50F = 31000 ppm chlorides





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.08 @ 02:00:01

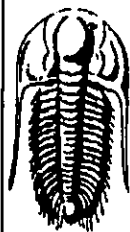
End Date: 2010.04.08 @ 05:57:26

Job Ticket #: 38157 DST #: 8

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: Rich Bell

Thurlow #1-1

1-7s-22w Graham KS

Job Ticket: 38157 DST#: 8

Test Start: 2010.04.08 @ 02:00:01

GENERAL INFORMATION:

Formation: **Cgl. Sand**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 03:31:56
 Time Test Ended: 05:57:26
 Interval: **3719.00 ft (KB) To 3744.00 ft (KB) (TVD)**
 Total Depth: **3744.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: KB to GR/CF: **5.00 ft**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)

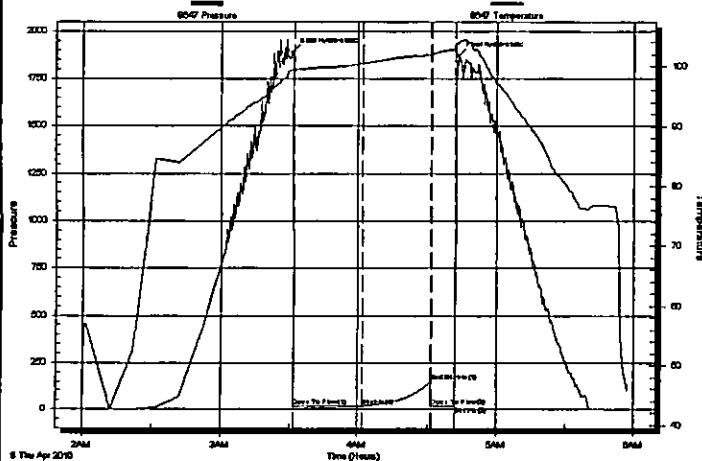
Serial #: 8647

Inside

Press@RunDepth: **16.67 psig @ 3721.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.04.08** End Date: **2010.04.08** Last Calib.: **2010.04.08**
 Start Time: **02:00:01** End Time: **05:57:26** Time On Btm: **2010.04.08 @ 03:30:56**
 Time Off Btm: **2010.04.08 @ 04:42:56**

TEST COMMENT: IFP - 1/4" blow - died 25 min.
 ISI - no blow back
 FFP - no blow
 TIME - 30-30-10

Pressure vs. Time



PRESSURE SUMMARY

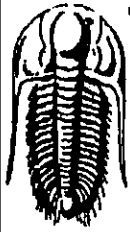
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.24	99.55	Initial Hydro-static
1	15.16	98.90	Open To Flow (1)
31	16.67	100.52	Shut-In(1)
61	148.35	101.98	End Shut-In(1)
61	17.30	101.94	Open To Flow (2)
71	17.48	102.88	Shut-In(2)
72	1872.32	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	SOCM 10%O, 90%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38157

DST#: 8

ATTN: Rich Bell

Test Start: 2010.04.08 @ 02:00:01

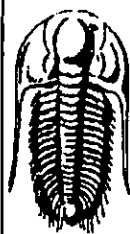
Tool Information

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 bbl	Tool Weight: 2500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3719.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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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Shut In Tool	5.00			3704.00	
Hydraulic tool	5.00			3709.00	
Packer	5.00			3714.00	20.00 Bottom Of Top Packer
Packer	5.00			3719.00	
Stubb	1.00			3720.00	
Perforations	1.00			3721.00	
Recorder	0.00	8647	Inside	3721.00	
Recorder	0.00	8371	Outside	3721.00	
Perforations	20.00			3741.00	
Bullnose	3.00			3744.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38157 DST#: 8

ATTN: Rich Bell

Test Start: 2010.04.08 @ 02:00:01

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.57 in³
Resistivity: ohm.m
Salinity: 3700.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

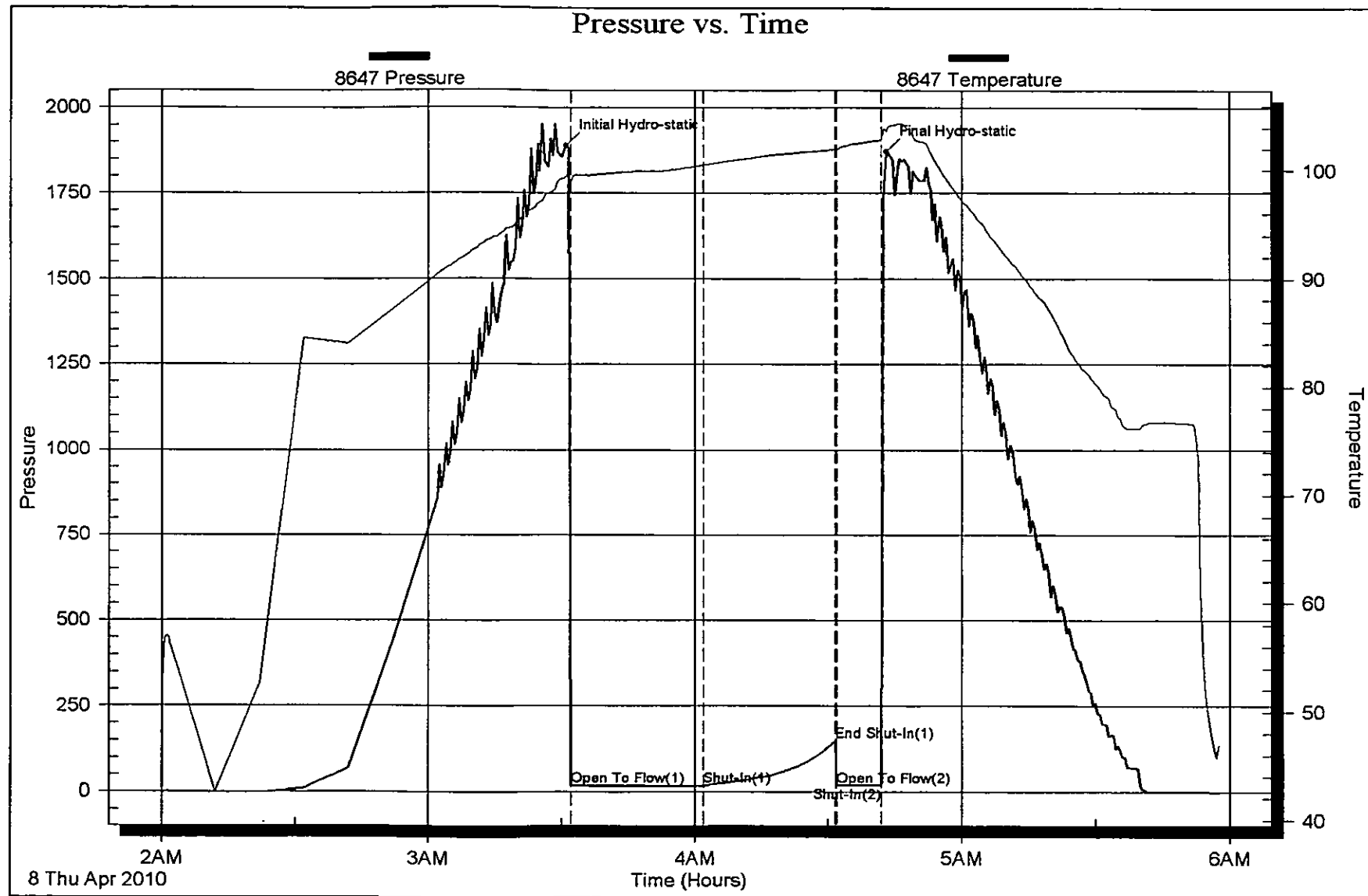
Length ft	Description	Volume bbl
2.00	SOCM 10%O, 90%M	0.010

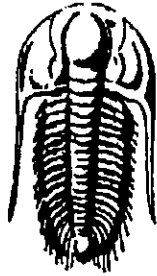
Total Length: 2.00 ft Total Volume: 0.010 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646

ATTN: Rich Bell

1-7s-22w Graham KS

Thurlow #1-1

Start Date: 2010.04.08 @ 16:32:35

End Date: 2010.04.08 @ 21:27:29

Job Ticket #: 38158 DST #: 9

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2010.04.19 @ 15:15:25 Page 1

Baird Oil Co., LLC

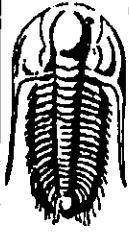
Thurlow #1-1

1-7s-22w Graham KS

DST # 9

Arbuckle

2010.04.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38158 DST#: 9

ATTN: Rich Bell

Test Start: 2010.04.08 @ 16:32:35

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 17:53:30
 Time Test Ended: 21:27:29

Test Type: **Conventional Straddle**
 Tester: **Brian Fairbank**
 Unit No: **41**

Interval: **3746.00 ft (KB) To 3762.00 ft (KB) (TVD)**
 Total Depth: **3791.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**
2239.00 ft (CF)
 KB to GR/CF: **5.00 ft**

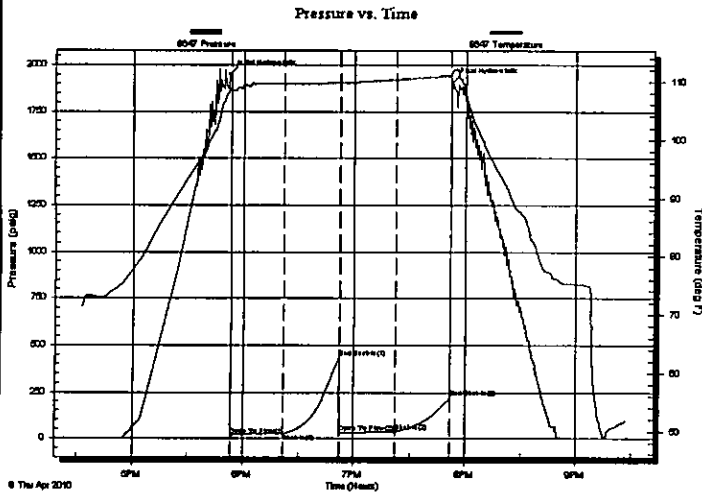
Serial #: 8647

Inside

Press@RunDepth: **36.88 psig @ 3752.00 ft (KB)**
 Start Date: **2010.04.08** End Date: **2010.04.08**
 Start Time: **16:32:35** End Time: **21:27:29**

Capacity: **8000.00 psig**
 Last Calib.: **2010.04.08**
 Time On Btrr: **2010.04.08 @ 17:52:00**
 Time Off Btrr: **2010.04.08 @ 19:52:30**

TEST COMMENT: IFP - weak blow throughout 1/4" - 1 1/4"
 ISI - no blow back
 FFP - weak blow throughout sur - 1/4"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.90	108.45	Initial Hydro-static
2	16.61	108.47	Open To Flow (1)
30	26.48	109.62	Shut-In(1)
60	431.41	109.87	End Shut-In(1)
61	33.43	109.72	Open To Flow (2)
91	36.88	110.35	Shut-In(2)
120	220.53	111.05	End Shut-In(2)
121	1912.98	111.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 15%O, 85%M	0.10
40.00	MO 85%O, 15%M	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38158

DST#: 9

ATTN: Rich Bell

Test Start: 2010.04.08 @ 16:32:35

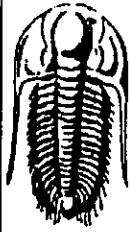
Tool Information

Drill Pipe:	Length: 3633.00 ft	Diameter: 3.80 inches	Volume: 50.96 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume: 51.56 bbl		Tool Chased 1.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3746.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	3762.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:
Tool slid 1' to bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3731.00		
Hydraulic tool	5.00			3736.00		
Packer	5.00			3741.00	20.00	Bottom Of Top Packer
Packer	5.00			3746.00		
Stubb	1.00			3747.00		
Perforations	5.00			3752.00		
Recorder	0.00	8647	Inside	3752.00		
Recorder	0.00	8371	Outside	3752.00		
Perforations	5.00			3757.00		
Blank Off Sub	1.00			3758.00		
Blank Spacing	4.00			3762.00	16.00	Tool Interval
Packer	5.00			3767.00		
Stubb	1.00			3768.00		
Perforations	25.00			3793.00		
Recorder	0.00	8657	Below	3793.00		
Bullnose	3.00			3796.00	34.00	Bottom Packers & Anchor
Total Tool Length:	70.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38158 DST#: 9

ATTN: Rich Bell

Test Start: 2010.04.08 @ 16:32:35

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: 7.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 15%O, 85%M	0.098
40.00	MO 85%O, 15%M	0.197

Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

