

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

P O Box 723
Alma Ne 68920

ATTN: Jason Bach

27-15-19-Ellis KS

Legleiter # 5

Start Date: 2011.04.02 @ 18:55:43

End Date: 2011.04.03 @ 00:57:13

Job Ticket #: 042410 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

Legleiter # 5

P O Box 723
Alma Ne 68920

27-15-19-Ellis KS

ATTN: Jason Bach

Job Ticket: 042410

DST#: 1

Test Start: 2011.04.02 @ 18:55:43

GENERAL INFORMATION:

Formation: **Toronto /A LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:49:13

Time Test Ended: 00:57:13

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3256.00 ft (KB) To 3320.00 ft (KB) (TVD)

Reference Elevations: 2010.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

2005.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 64.06 psig @ 3260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.02

End Date:

2011.04.03

Last Calib.: 2011.04.03

Start Time: 19:05:43

End Time:

00:57:13

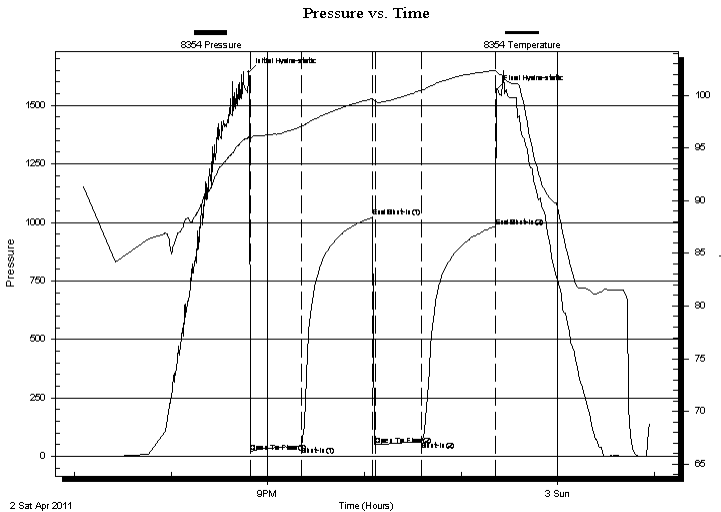
Time On Btm: 2011.04.02 @ 20:48:13

Time Off Btm: 2011.04.02 @ 23:22:13

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

FF-Weak steady surface blow
Times-30-45-30-45

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.57	96.06	Initial Hydro-static
1	18.28	95.61	Open To Flow (1)
33	44.82	97.07	Shut-In(1)
77	1022.17	99.71	End Shut-In(1)
79	49.92	99.41	Open To Flow (2)
108	64.06	100.50	Shut-In(2)
153	982.63	102.39	End Shut-In(2)
154	1565.11	102.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Wtr	1.06

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

Legleiter # 5

P O Box 723
Alma Ne 68920

27-15-19-Ellis KS

Job Ticket: 042410

DST#: 1

ATTN: Jason Bach

Test Start: 2011.04.02 @ 18:55:43

Tool Information

Drill Pipe:	Length: 3203.00 ft	Diameter: 3.80 inches	Volume: 44.93 bbl	Tool Weight: 2800.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3256.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 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			3229.00	
Shut In Tool	5.00			3234.00	
Hydraulic tool	5.00			3239.00	
Jars	5.00			3244.00	
Safety Joint	3.00			3247.00	
Packer	5.00			3252.00	28.00 Bottom Of Top Packer
Packer	4.00			3256.00	
Stubb	1.00			3257.00	
Perforations	2.00			3259.00	
Change Over Sub	1.00			3260.00	
Recorder	0.00	8354	Inside	3260.00	
Recorder	0.00	8520	Outside	3260.00	
Drill Pipe	31.00			3291.00	
Change Over Sub	1.00			3292.00	
Perforations	25.00			3317.00	
Bullnose	3.00			3320.00	64.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



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FLUID SUMMARY

Bach Oil Production

Legleiter # 5

P O Box 723
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27-15-19-Ellis KS

Job Ticket: 042410

DST#: 1

ATTN: Jason Bach

Test Start: 2011.04.02 @ 18:55:43

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	60000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

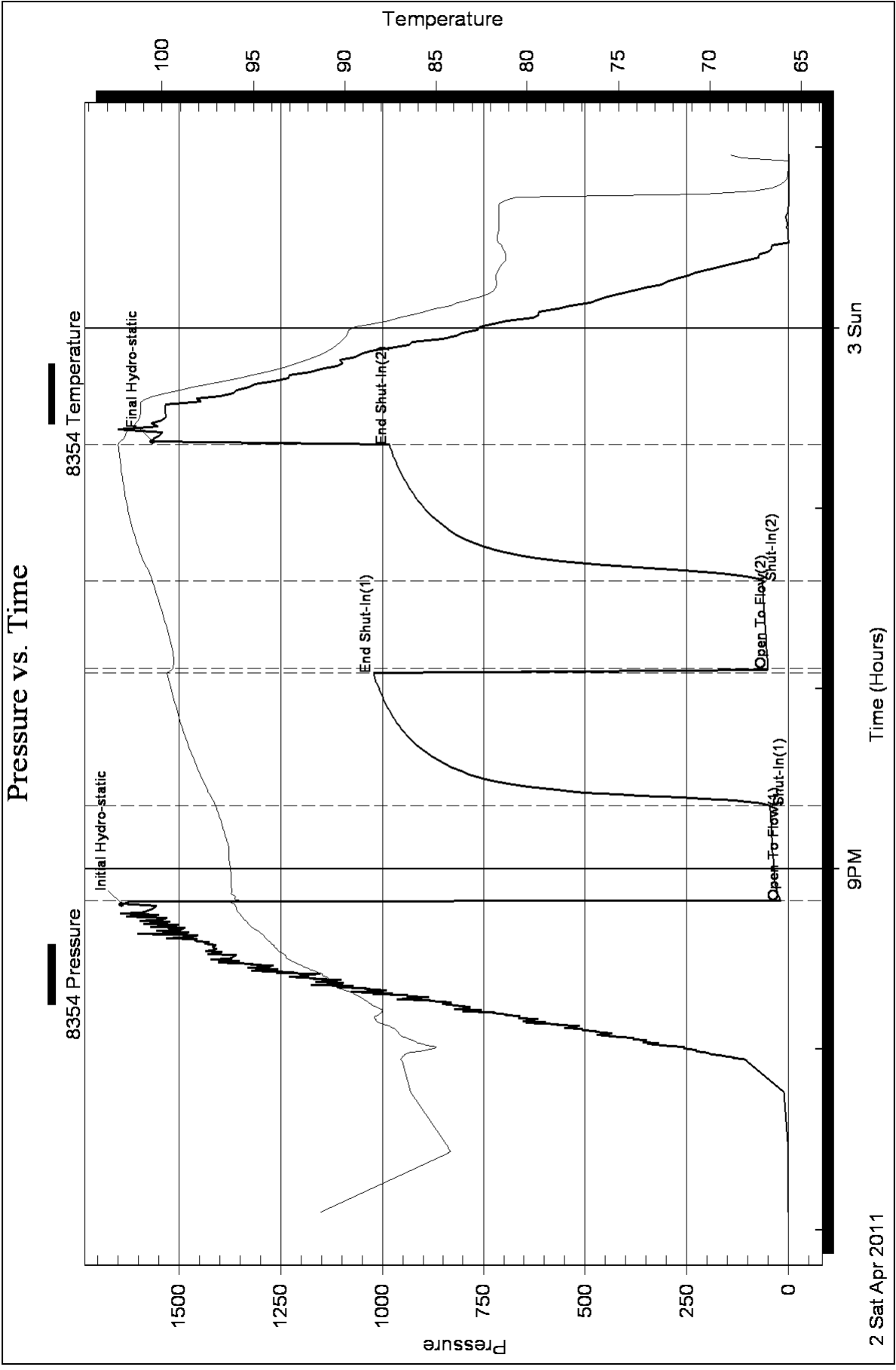
Length ft	Description	Volume bbl
95.00	Wtr	1.059

Total Length: 95.00 ft Total Volume: 1.059 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .13 @ 70 = 60000 ppm





DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

P O Box 723
Alma Ne 68920

ATTN: Jason Bach

27-15-19-Ellis KS

Legleiter # 5

Start Date: 2011.04.03 @ 10:30:06

End Date: 2011.04.03 @ 16:30:06

Job Ticket #: 042411 DST #: 2

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DRILL STEM TEST REPORT

Bach Oil Production

Legleiter # 5

P O Box 723
Alma Ne 68920

27-15-19-Ellis KS

ATTN: Jason Bach

Job Ticket: 042411

DST#: 2

Test Start: 2011.04.03 @ 10:30:06

GENERAL INFORMATION:

Formation: **B-D-F LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:20:26

Time Test Ended: 16:30:06

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3312.00 ft (KB) To 3378.00 ft (KB) (TVD)

Reference Elevations: 2010.00 ft (KB)

Total Depth: 3378.00 ft (KB) (TVD)

2005.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 42.73 psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.03

End Date:

2011.04.03

Last Calib.: 2011.04.03

Start Time: 10:40:06

End Time:

16:30:06

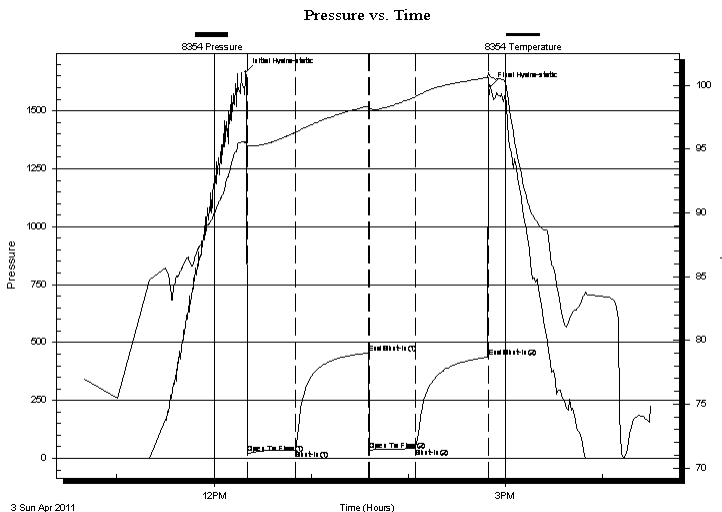
Time On Btm: 2011.04.03 @ 12:19:36

Time Off Btm: 2011.04.03 @ 14:50:36

TEST COMMENT: IF-Weak building to 1"

FF-Weak steady surface blow
Times-30-45-30-45

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.83	95.58	Initial Hydro-static
1	20.59	94.82	Open To Flow (1)
31	35.65	96.30	Shut-In(1)
76	454.75	98.36	End Shut-In(1)
77	36.79	98.23	Open To Flow (2)
105	42.73	99.07	Shut-In(2)
150	436.65	100.60	End Shut-In(2)
151	1605.35	100.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Wtr	0.10
35.00	Drig Mud	0.40

Gas Rates

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



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TOOL DIAGRAM

Bach Oil Production

Legleiter # 5

P O Box 723
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Job Ticket: 042411

DST#: 2

ATTN: Jason Bach

Test Start: 2011.04.03 @ 10:30:06

Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 bbl	Tool Weight: 2800.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3312.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			3285.00	
Shut In Tool	5.00			3290.00	
Hydraulic tool	5.00			3295.00	
Jars	5.00			3300.00	
Safety Joint	3.00			3303.00	
Packer	5.00			3308.00	28.00 Bottom Of Top Packer
Packer	4.00			3312.00	
Stubb	1.00			3313.00	
Perforations	2.00			3315.00	
Change Over Sub	1.00			3316.00	
Recorder	0.00	8354	Inside	3316.00	
Recorder	0.00	8520	Outside	3316.00	
Drill Pipe	31.00			3347.00	
Change Over Sub	1.00			3348.00	
Perforations	27.00			3375.00	
Bullnose	3.00			3378.00	66.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



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Job Ticket: 042411

DST#: 2

ATTN: Jason Bach

Test Start: 2011.04.03 @ 10:30:06

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:

80000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.08 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Wtr	0.098
35.00	Drig Mud	0.400

Total Length: 55.00 ft Total Volume: 0.498 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .1 @ 70 = 80000ppm

