



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma NE 68920

ATTN: Bob Peterson

30-4-20w Phillips,KS

Becker #1

Start Date: 2011.04.16 @ 15:45:23

End Date: 2011.04.16 @ 17:45:23

Job Ticket #: 42817 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

Becker #1

PO Box 723
Alma NE 68920

30-4-20w Phillips,KS

Job Ticket: 42817

DST#: 1

ATTN: Bob Peterson

Test Start: 2011.04.16 @ 15:45:23

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 17:45:23

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3295.00 ft (KB) To 3320.00 ft (KB) (TVD)

Reference Elevations: 2043.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press @ Run Depth: psig @ 3296.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.16

End Date: 2011.04.16

Last Calib.: 2011.04.16

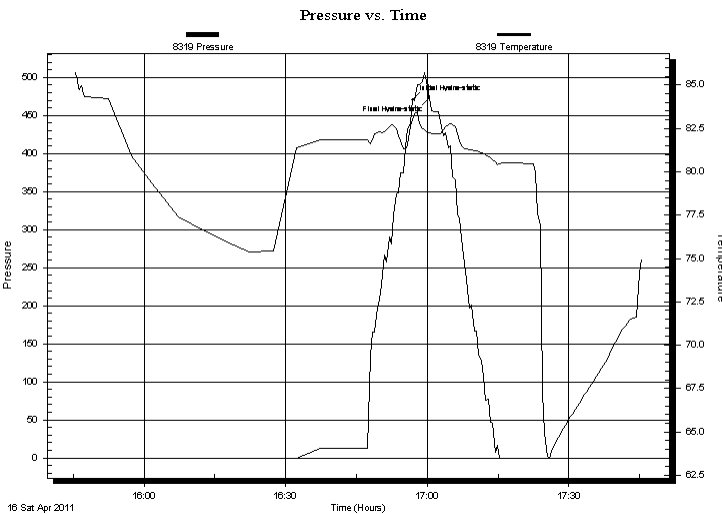
Start Time: 15:45:28

End Time: 17:45:23

Time On Btm: 2011.04.16 @ 16:56:53

Time Off Btm: 2011.04.16 @ 17:00:23

TEST COMMENT: Hit a bridge at 1055ft Mis-run



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	470.84	83.01	Initial Hydro-static
4	473.82	82.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



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TOOL DIAGRAM

Bach Oil Production

Becker #1

PO Box 723
Alma NE 68920

30-4-20w Phillips,KS

Job Ticket: 42817

DST#: 1

ATTN: Bob Peterson

Test Start: 2011.04.16 @ 15:45:23

Tool Information

Drill Pipe:	Length: 970.00 ft	Diameter: 3.80 inches	Volume: 13.61 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	lb
Drill Pipe Above KB:	-2267.00 ft			Final	lb
Depth to Top Packer:	3295.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	53.00 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			3268.00	
Shut In Tool	5.00			3273.00	
Hydraulic tool	5.00			3278.00	
Jars	5.00			3283.00	
Safety Joint	2.00			3285.00	
Packer	5.00			3290.00	28.00 Bottom Of Top Packer
Packer	5.00			3295.00	
Stubb	1.00			3296.00	
Recorder	0.00	6753	Inside	3296.00	
Recorder	0.00	8319	Outside	3296.00	
Perforations	21.00			3317.00	
Bullnose	3.00			3320.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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FLUID SUMMARY

Bach Oil Production

Becker #1

PO Box 723
Alma NE 68920

30-4-20w Phillips,KS

Job Ticket: 42817

DST#: 1

ATTN: Bob Peterson

Test Start: 2011.04.16 @ 15:45:23

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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

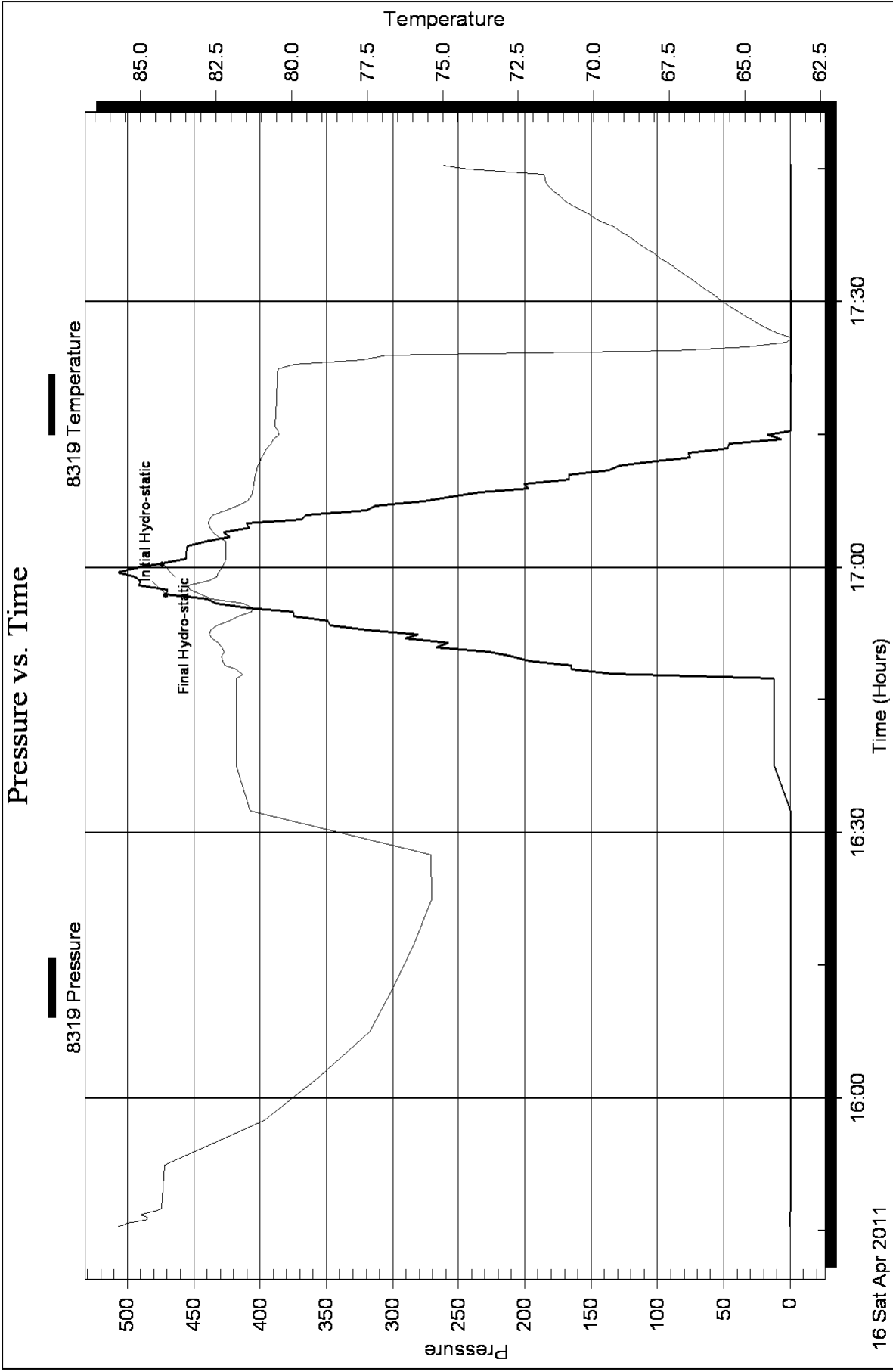
Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma NE 68920

ATTN: Bob Peterson

30-4-20w Phillips,KS

Becker #1

Start Date: 2011.04.17 @ 09:45:32

End Date: 2011.04.17 @ 17:20:32

Job Ticket #: 42818 DST #: 2

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DRILL STEM TEST REPORT

Bach Oil Production

Becker #1

PO Box 723
Alma NE 68920

30-4-20w Phillips,KS

Job Ticket: 42818

DST#: 2

ATTN: Bob Peterson

Test Start: 2011.04.17 @ 09:45:32

GENERAL INFORMATION:

Formation: **LKC "I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:17:32

Time Test Ended: 17:20:32

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3405.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 2043.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 107.81 psig @ 3406.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.17

End Date: 2011.04.17

Last Calib.: 2011.04.17

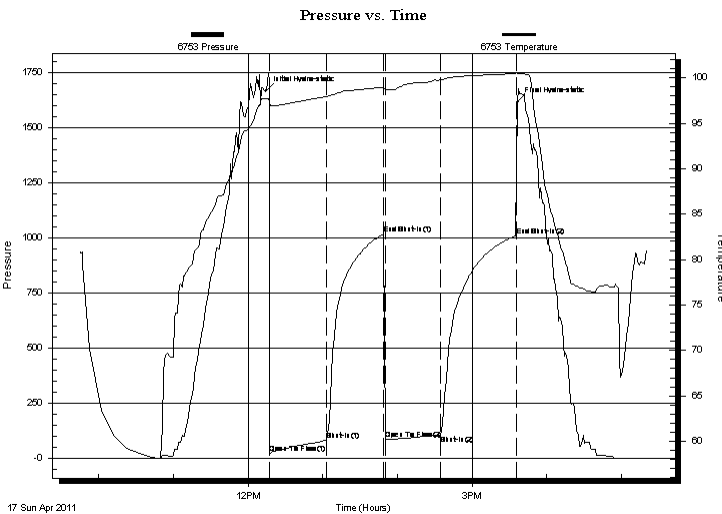
Start Time: 09:45:37

End Time: 17:20:31

Time On Btm: 2011.04.17 @ 12:14:32

Time Off Btm: 2011.04.17 @ 15:36:32

TEST COMMENT: IF-9.75 in blow
ISI-No blow
FF-5 in blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.64	97.70	Initial Hydro-static
3	23.91	96.66	Open To Flow (1)
49	84.85	97.93	Shut-In(1)
95	1020.06	98.96	End Shut-In(1)
96	87.02	98.70	Open To Flow (2)
140	107.81	99.79	Shut-In(2)
201	1012.32	100.45	End Shut-In(2)
202	1616.95	100.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 15%O 85%M	0.30
60.00	OCM 40%O 60%M	0.30
60.00	MCO 70%O 30%M	0.30
20.00	MCO 55%O 45%M	0.10

Gas Rates

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



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TOOL DIAGRAM

Bach Oil Production

Becker #1

PO Box 723
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Job Ticket: 42818

DST#: 2

ATTN: Bob Peterson

Test Start: 2011.04.17 @ 09:45:32

Tool Information

Drill Pipe:	Length: 3170.00 ft	Diameter: 3.80 inches	Volume: 44.47 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	2.00 ft
				String Weight: Initial	55000.00 lb
Drill Pipe Above KB:	3.00 ft			Final	55000.00 lb
Depth to Top Packer:	3405.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	105.00 ft				
Tool Length:	133.00 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			3378.00	
Shut In Tool	5.00			3383.00	
Hydraulic tool	5.00			3388.00	
Jars	5.00			3393.00	
Safety Joint	2.00			3395.00	
Packer	5.00			3400.00	28.00 Bottom Of Top Packer
Packer	5.00			3405.00	
Stubb	1.00			3406.00	
Recorder	0.00	6753	Inside	3406.00	
Recorder	0.00	8319	Outside	3406.00	
Perforations	6.00			3412.00	
Change Over Sub	1.00			3413.00	
Drill Pipe	63.00			3476.00	
Change Over Sub	1.00			3477.00	
Perforations	30.00			3507.00	
Bullnose	3.00			3510.00	105.00 Bottom Packers & Anchor
Total Tool Length:	133.00				



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Job Ticket: 42818

DST#: 2

ATTN: Bob Peterson

Test Start: 2011.04.17 @ 09:45:32

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	SOCM 15%O 85%M	0.295
60.00	OCM 40%O 60%M	0.295
60.00	MCO 70%O 30%M	0.295
20.00	MCO 55%O 45%M	0.098

Total Length: 200.00 ft

Total Volume: 2.533 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

