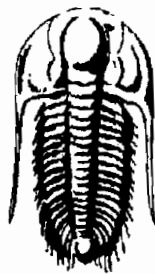


14-4-21W
KGS ✓



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma, Ne 68920

ATTN: Jason Bach

14 4 21Norton Ks

Adee # 1

Start Date: 2008.11.23 @ 17:56:34

End Date: 2008.11.24 @ 02:12:04

Job Ticket #: 33673 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2008.12.05 @ 10:09:54 Page 1

Bach Oil Production

Adee # 1

14 4 21Norton Ks

DST # 1

A-C-D

LKC

2008.11.23



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production
PO Box 723
Alma, Ne 68920
ATTN: Jason Bach

Adee # 1
14 4 21Norton Ks
Job Ticket: 33673 **DST#: 1**
Test Start: 2008.11.23 @ 17:56:34

GENERAL INFORMATION:

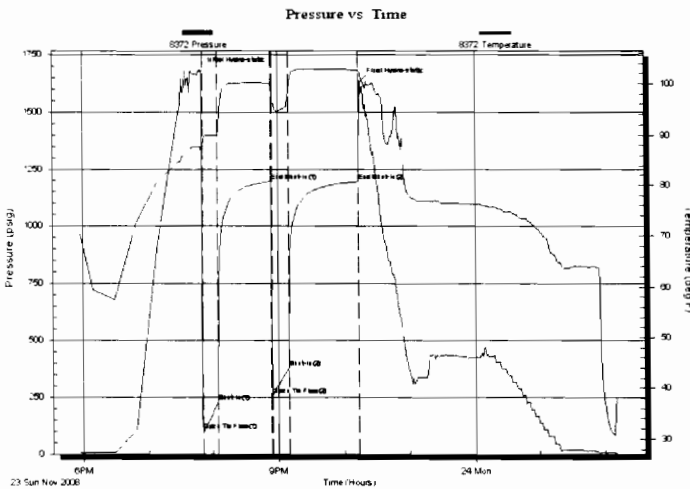
Formation: **A-C-D LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:51:04
Time Test Ended: 02:12:04
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 38
Interval: **3455.00 ft (KB) To 3505.00 ft (KB) (TVD)**
Total Depth: 3505.00 ft (KB) (TVD)
Reference Elevations: 2217.00 ft (KB)
2212.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 379.33 psig @ 3463.00 ft (KB)
Start Date: 2008.11.23 End Date: 2008.11.24
Start Time: 17:56:35 End Time: 02:12:04
Capacity: 7000.00 psig
Last Calib.: 2008.11.24
Time On Btm: 2008.11.23 @ 19:50:04
Time Off Btm: 2008.11.23 @ 22:15:04

TEST COMMENT: IF-Strong B-B in 1 min
IS-Strong B-B in 25 min
FF-Strong B-B in 1.5 min
FSI-Strong B-B in 20 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.02	87.58	Initial Hydro-static
1	104.35	87.86	Open To Flow (1)
15	228.42	89.91	Shut-In(1)
64	1196.14	99.95	End Shut-In(1)
65	258.90	96.01	Open To Flow (2)
80	379.33	98.74	Shut-In(2)
144	1194.99	102.68	End Shut-In(2)
145	1633.63	102.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MGSyO 10%g 70%o 20%m	1.68
875.00	CGSyO 30%g 70%o	12.27
0.00	620 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

Adee # 1

PO Box 723
Alma, Ne 68920

14 4 21Norton Ks

Job Ticket: 33673

DST#: 1

ATTN: Jason Bach

Test Start: 2008.11.23 @ 17:56:34

Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume: 48.49 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3455.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	79.00 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			3432.00	
Shut In Tool	5.00			3437.00	
Hydraulic tool	5.00			3442.00	
Jars	5.00			3447.00	
Safety Joint	3.00			3450.00	
Packer	5.00			3455.00	24.00 Bottom Of Top Packer
Packer - Shale	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	1.00			3462.00	
Change Over Sub	1.00			3463.00	
Recorder	0.00	8372	Inside	3463.00	
Recorder	0.00	8368	Outside	3463.00	
Drill Pipe	31.00			3494.00	
Change Over Sub	1.00			3495.00	
Perforations	12.00			3507.00	
Bullnose	3.00			3510.00	55.00 Anchor Tool
Total Tool Length:		79.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

Adee # 1

PO Box 723
Alma, Ne 68920

14 4 21Norton Ks

Job Ticket: 33673

DST#: 1

ATTN: Jason Bach

Test Start: 2008.11.23 @ 17:56:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 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 bbl
120.00	MCGsyO 10%g 70%o 20%m	1.683
875.00	CGsyO 30%g 70%o	12.274
0.00	620 GIP	0.000

Total Length: 995.00 ft Total Volume: 13.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

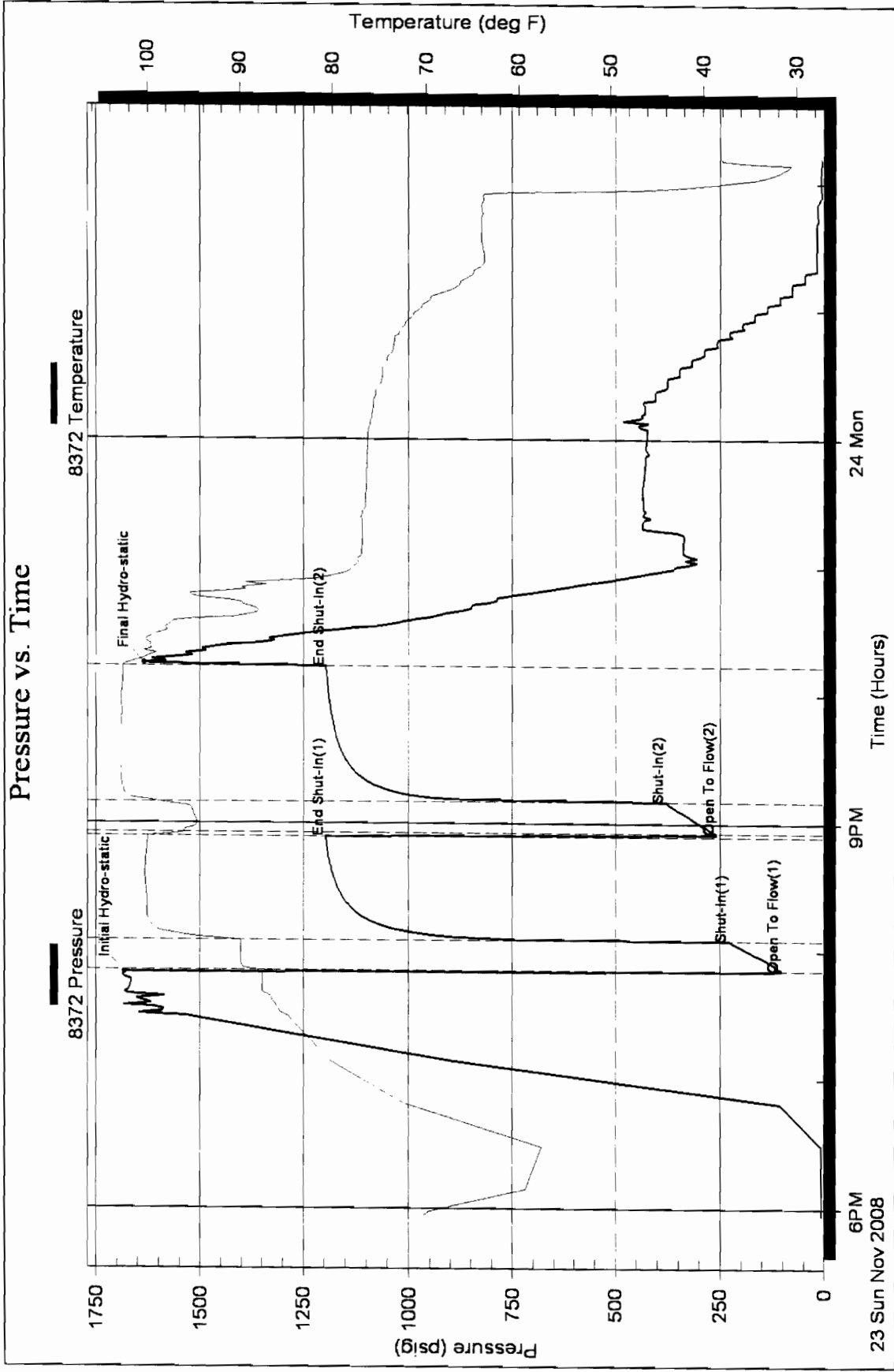
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



157282
KGS Wichita