



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma, Ne 68920 + 0723

ATTN: Jason Bach

Delimont #1

8-2s-19w-Phillips,KS

Start Date: 2011.10.02 @ 18:28:37

End Date: 2011.10.03 @ 02:43:07

Job Ticket #: 44643 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.24 @ 12:49:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bach Oil Production

8-2s-19w-Phillips, KS

PO Box 723
Alma, Ne 68920 + 0723

Delimont #1

Job Ticket: 44643

DST#: 1

ATTN: Jason Bach

Test Start: 2011.10.02 @ 18:28:37

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:33:37

Time Test Ended: 02:43:07

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3474.00 ft (KB) To 3499.00 ft (KB) (TVD)

Total Depth: 3499.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2257.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 130.94 psig @ 3476.00 ft (KB)

Start Date: 2011.10.02

End Date: 2011.10.03

Start Time: 18:28:38

End Time: 02:43:07

Capacity: 8000.00 psig

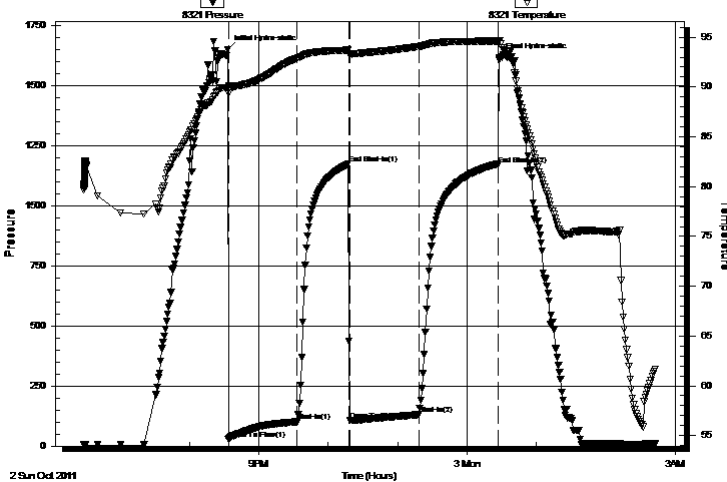
Last Calib.: 2011.10.03

Time On Btm: 2011.10.02 @ 20:33:07

Time Off Btm: 2011.10.03 @ 00:27:37

TEST COMMENT: IFP-Good Blow BOB in 51 min
ISI-Weak surface blow died out in 20 min
FFP-Good blow built to 10 in
FSI-Weak surface blow built to 1/8 in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.23	89.96	Initial Hydro-static
1	28.47	89.38	Open To Flow (1)
60	101.36	92.88	Shut-In(1)
105	1174.23	93.70	End Shut-In(1)
106	107.01	93.34	Open To Flow (2)
165	130.94	94.06	Shut-In(2)
234	1169.65	94.59	End Shut-In(2)
235	1615.30	94.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	V SOCGWM 2%O8%G10%W80%M	0.31
68.00	V SOCGMW 3%O5%G20%M72%W	0.33
63.00	SOCM 3%O 97%M	0.72
63.00	Free Oil	0.88
0.00	94 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

8-2s-19w-Phillips,KS

PO Box 723
Alma, Ne 68920 + 0723

Delimont #1

Job Ticket: 44643

DST#: 1

ATTN: Jason Bach

Test Start: 2011.10.02 @ 18:28:37

Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 149.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3474.00 ft			Final 54000.00 lb
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			3447.00	
Shut In Tool	5.00			3452.00	
Hydraulic tool	5.00			3457.00	
Jars	5.00			3462.00	
Safety Joint	3.00			3465.00	
Packer	4.00			3469.00	28.00 Bottom Of Top Packer
Packer	5.00			3474.00	
Stubb	1.00			3475.00	
Perforations	1.00			3476.00	
Recorder	0.00	8321	Inside	3476.00	
Recorder	0.00	8737	Outside	3476.00	
Perforations	20.00			3496.00	
Bullnose	3.00			3499.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

8-2s-19w-Phillips,KS

PO Box 723
Alma, Ne 68920 + 0723

Delimont #1

Job Ticket: 44643

DST#: 1

ATTN: Jason Bach

Test Start: 2011.10.02 @ 18:28:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.12 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	VSOCGWM 2%O8%G10%W80%M	0.310
68.00	VSOCGMM 3%O5%G20%M72%W	0.334
63.00	SOCM 3%O 97%M	0.720
63.00	Free Oil	0.884
0.00	94 GIP	0.000

Total Length: 257.00 ft

Total Volume: 2.248 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

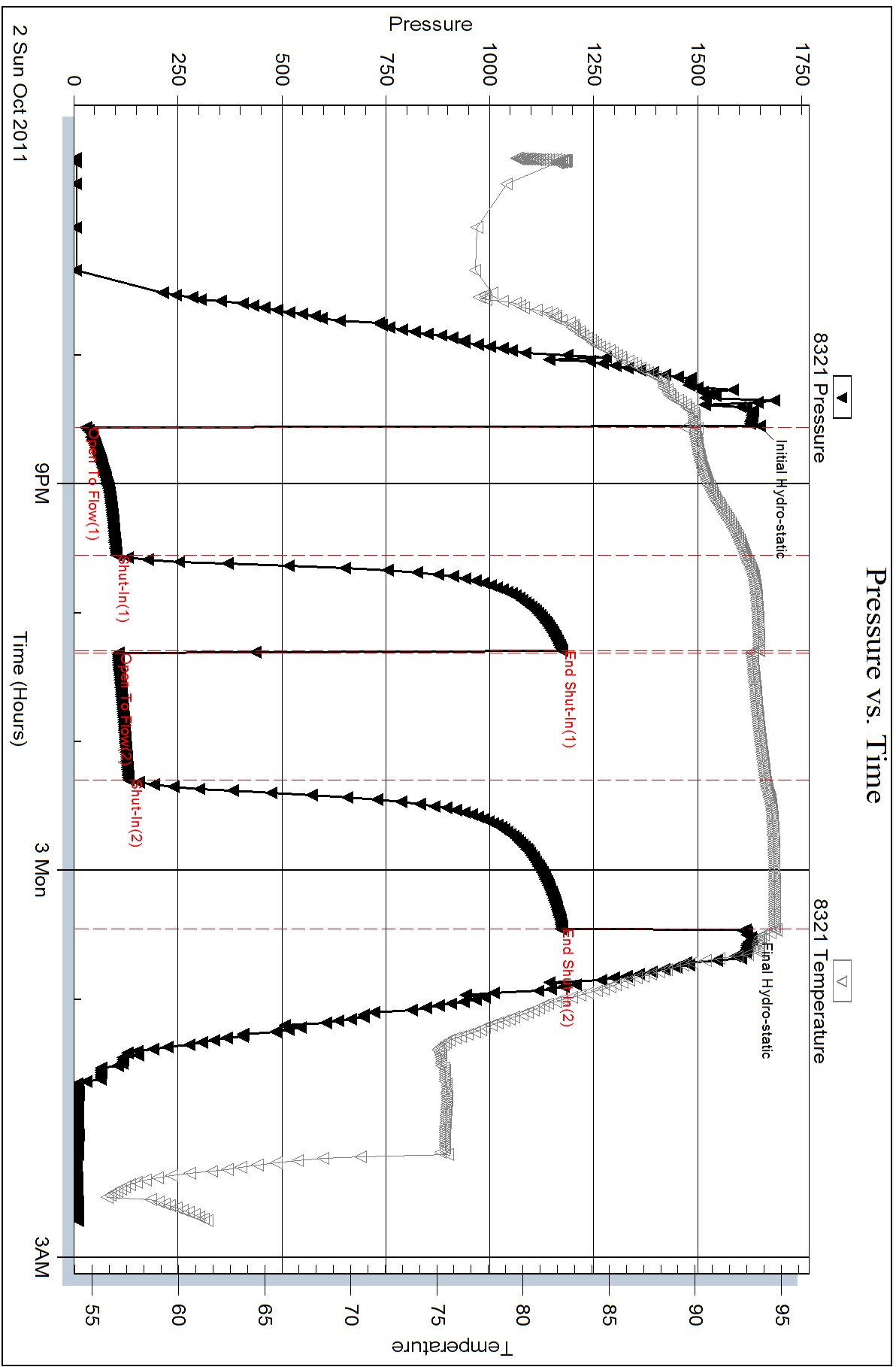
Serial #: 8321

Inside

Bach Oil Production

Delmont #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 44643

Printed: 2011.10.24 @ 12:49:30



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma, Ne 68920 + 0723

ATTN: Jason Bach

Delimont #1

8-2s-19w-Phillips,KS

Start Date: 2011.10.03 @ 11:51:57

End Date: 2011.10.03 @ 18:00:27

Job Ticket #: 44644 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.24 @ 12:50:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bach Oil Production
 PO Box 723
 Alma, Ne 68920 + 0723
 ATTN: Jason Bach

8-2s-19w-Phillips,KS
Delimont #1
 Job Ticket: 44644 **DST#: 2**
 Test Start: 2011.10.03 @ 11:51:57

GENERAL INFORMATION:

Formation: **LKC C-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:48:27
 Time Test Ended: 18:00:27
 Interval: **3497.00 ft (KB) To 3562.00 ft (KB) (TVD)**
 Total Depth: 3562.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2257.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 5.00 ft

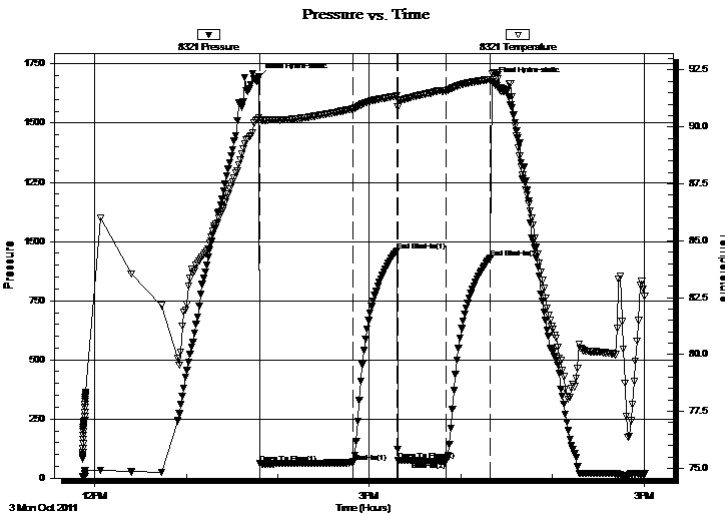
Serial #: 8321

Inside

Press@RunDepth: 72.32 psig @ 3534.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.10.03 End Date: 2011.10.03 Last Calib.: 2011.10.03
 Start Time: 11:51:58 End Time: 18:00:27 Time On Btm: 2011.10.03 @ 13:47:27
 Time Off Btm: 2011.10.03 @ 16:20:27

TEST COMMENT: IFP-Weak blow built to 2 1/8 in
 ISI-Dead no blow back
 FFP-Weak blow built to 3/4 in
 FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.08	90.40	Initial Hydro-static
1	61.92	90.31	Open To Flow (1)
62	66.89	90.79	Shut-In(1)
91	961.60	91.37	End Shut-In(1)
92	75.62	91.18	Open To Flow (2)
123	72.32	91.59	Shut-In(2)
152	931.69	92.09	End Shut-In(2)
153	1673.75	92.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SOCM 5%O95%M	0.29
5.00	HOCM 40%O60%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

8-2s-19w-Phillips,KS

PO Box 723
Alma, Ne 68920 + 0723

Delimont #1

Job Ticket: 44644

DST#: 2

ATTN: Jason Bach

Test Start: 2011.10.03 @ 11:51:57

Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 48.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3497.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 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			3470.00	
Shut In Tool	5.00			3475.00	
Hydraulic tool	5.00			3480.00	
Jars	5.00			3485.00	
Safety Joint	3.00			3488.00	
Packer	4.00			3492.00	28.00 Bottom Of Top Packer
Packer	5.00			3497.00	
Stubb	1.00			3498.00	
Perforations	3.00			3501.00	
Change Over Sub	1.00			3502.00	
Drill Pipe	31.00			3533.00	
Change Over Sub	1.00			3534.00	
Recorder	0.00	8321	Inside	3534.00	
Recorder	0.00	8737	Outside	3534.00	
Perforations	25.00			3559.00	
Bullnose	3.00			3562.00	65.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



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PO Box 723
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Delimont #1

Job Ticket: 44644

DST#: 2

ATTN: Jason Bach

Test Start: 2011.10.03 @ 11:51:57

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: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 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 bbbl
40.00	SOCM 5%O95%M	0.288
5.00	HOCM 40%O60%M	0.070

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

Inside

Bach Oil Production

Delmont #1

DST Test Number: 2

