



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

26-3s-22w Norton KS

Esslinger Ranch Inc #3-26

Start Date: 2013.03.13 @ 17:30:00

End Date: 2013.03.14 @ 00:48:30

Job Ticket #: 50583 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.20 @ 10:05:27

Baird Oil Company

Esslinger Ranch Inc #3-26

26-3s-22w Norton KS

DST # 1

Basal Penn Sand

2013.03.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Esslinger Ranch Inc #3-26

26-3s-22w Norton KS

Job Ticket: 50583

DST#: 1

Test Start: 2013.03.13 @ 17:30:00

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:30

Time Test Ended: 00:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3851.00 ft (KB) To 3903.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 373.31 psig @ 3854.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.13

End Date:

2013.03.14

Last Calib.: 2013.03.14

Start Time: 17:30:01

End Time:

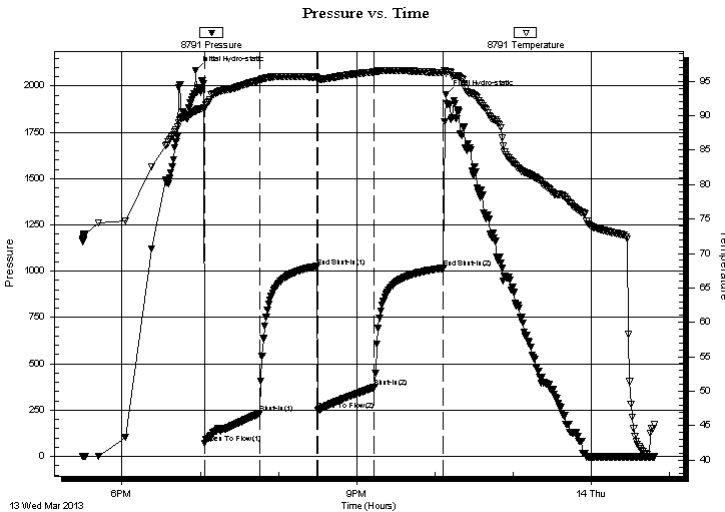
00:48:30

Time On Btm: 2013.03.13 @ 18:56:30

Time Off Btm: 2013.03.13 @ 22:08:30

TEST COMMENT: IF: Strong blow, Built to B.O.B in 10 mins.
IS: No blow back over 45 mins.
FF: Strong blow, Built to B.O.B in 12 mins.
FS: No blow back over 45 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2084.35	90.69	Initial Hydro-static
7	71.48	91.01	Open To Flow (1)
49	231.41	95.12	Shut-In(1)
93	1024.68	95.59	End Shut-In(1)
94	249.74	95.36	Open To Flow (2)
137	373.31	96.35	Shut-In(2)
190	1016.74	96.23	End Shut-In(2)
192	1955.38	96.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	mcw -10% m90% w	4.13
189.00	mcw -30% m70% w	2.65
189.00	w cm-40% w 60% m	2.65

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50583

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.13 @ 17:30:00

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:30

Time Test Ended: 00:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: 3851.00 ft (KB) To 3903.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8651 Outside

Press @ Run Depth: psig @ 3854.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.13

End Date:

2013.03.14

Last Calib.:

2013.03.14

Start Time: 17:30:01

End Time:

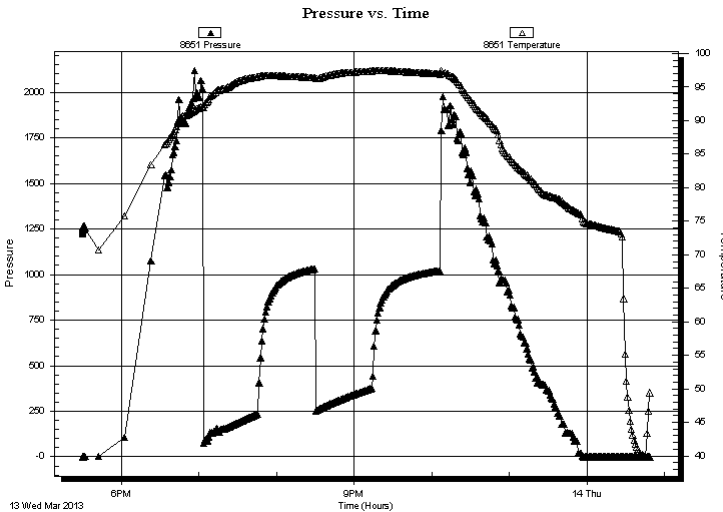
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Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow , Built to B.O.B in 10 mins.
IS: No blow back over 45 mins.
FF: Strong blow , Built to B.O.B in 12 mins.
FS: No blow back over 45 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
372.00	mcw -10% m90% w	4.13
189.00	mcw -30% m70% w	2.65
189.00	w cm-40% w 60% m	2.65

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50583

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.13 @ 17:30:00

Tool Information

Drill Pipe:	Length: 3719.00 ft	Diameter: 3.80 inches	Volume: 52.17 bbl	Tool Weight: 2400.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.76 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3851.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3828.00	
Hydraulic tool	5.00			3833.00	
Jars	5.00			3838.00	
Safety Joint	3.00			3841.00	
Packer	5.00			3846.00	28.00 Bottom Of Top Packer
Packer	5.00			3851.00	
Stubb	1.00			3852.00	
Perforations	2.00			3854.00	
Recorder	0.00	8791	Inside	3854.00	
Recorder	0.00	8651	Outside	3854.00	
Change Over Sub	1.00			3855.00	
Drill Pipe	31.00			3886.00	
Change Over Sub	1.00			3887.00	
Perforations	13.00			3900.00	
Bullnose	3.00			3903.00	52.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50583

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.13 @ 17:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
372.00	mcw -10%m90%w	4.125
189.00	mcw -30%m70%w	2.651
189.00	w cm-40%w 60%m	2.651

Total Length: 750.00 ft Total Volume: 9.427 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 56* @ .33 =25000

Serial #: 8791

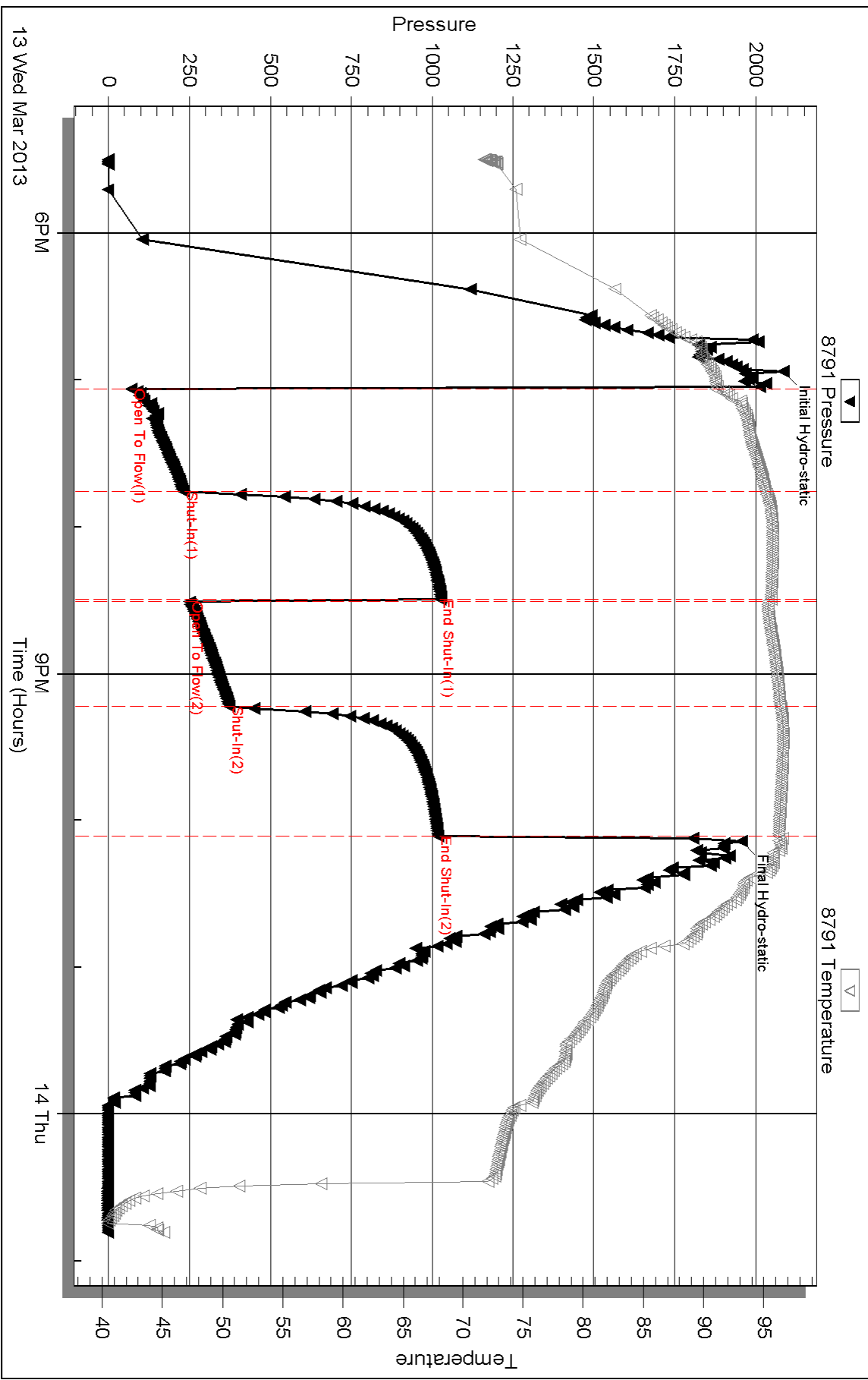
Inside

Baird Oil Company

26-3s-22w Norton KS

DST Test Number: 1

Pressure vs. Time

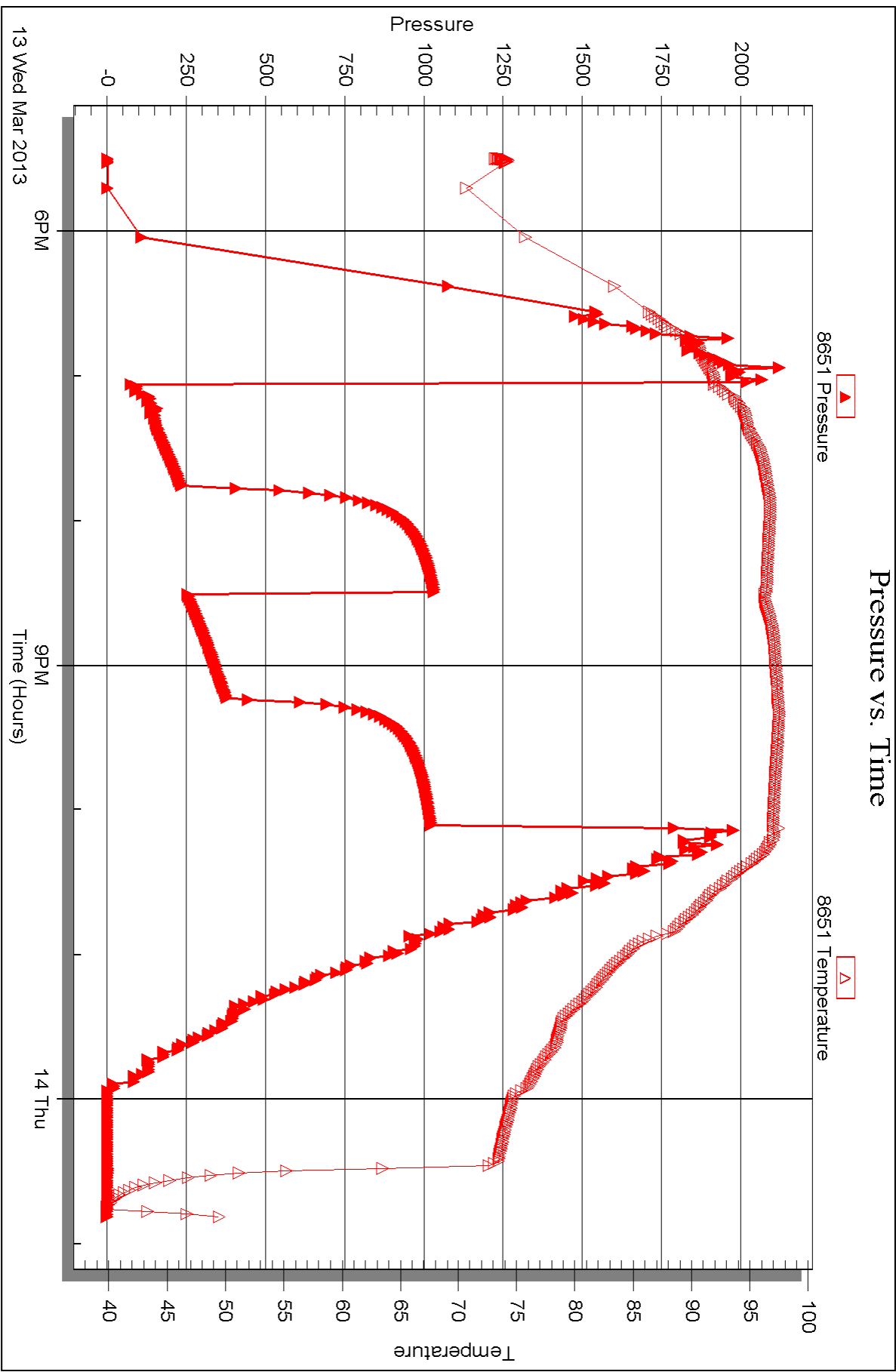


Serial #: 8651

Outside Baird Oil Company

26-3s-22w Norton KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

26-3s-22w Norton KS

Esslinger Ranch Inc #3-26

Start Date: 2013.03.14 @ 01:25:00

End Date: 2013.03.14 @ 09:24:00

Job Ticket #: 50584 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.03.20 @ 10:04:35

Baird Oil Company

Esslinger Ranch Inc #3-26

26-3s-22w Norton KS

DST # 2

LKC-l,j,k

2013.03.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

ATTN: Richard Bell

Job Ticket: 50584

DST#: 2

Test Start: 2013.03.14 @ 01:25:00

GENERAL INFORMATION:

Formation: **LKC-I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:28:30

Time Test Ended: 09:24:00

Test Type: Conventional Straddle (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3718.00 ft (KB) To 3784.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 98.79 psig @ 3721.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.14

End Date:

2013.03.14

Last Calib.:

2013.03.14

Start Time: 01:25:01

End Time:

09:24:00

Time On Btm:

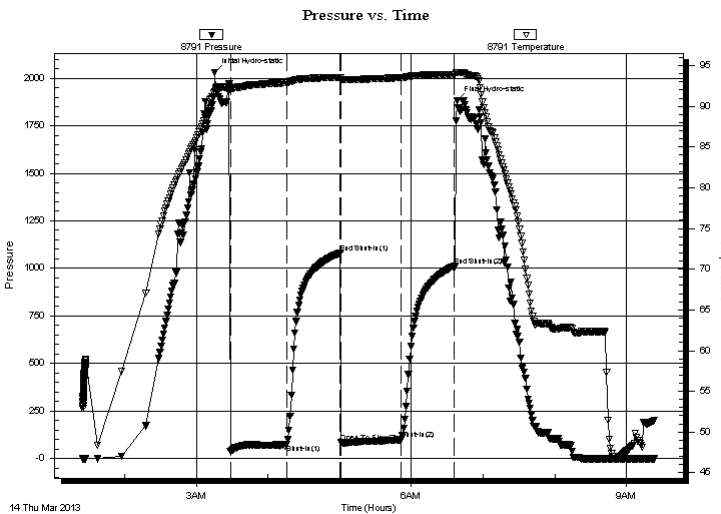
2013.03.14 @ 03:15:30

Time Off Btm:

2013.03.14 @ 06:38:30

TEST COMMENT: IF: Weak blow , Built to B.O.B in 45 mins.
IS: No blow back over 45 mins.
FF: Weak blow , Built to 6 in. over 45 mins.
FS: No blow back over 45 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.71	91.78	Initial Hydro-static
13	38.76	91.89	Open To Flow (1)
60	74.26	92.93	Shut-In(1)
105	1082.05	93.56	End Shut-In(1)
106	86.72	93.25	Open To Flow (2)
156	98.79	93.52	Shut-In(2)
201	1013.73	93.91	End Shut-In(2)
203	1883.00	94.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM-10%G20%O70%M	0.31
63.00	GOCM-20%G30%O50%M	0.36
126.00	GMCO-25%G5%M70%O	1.77
126.00	GO-40%G60%O	1.77

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Esslinger Ranch Inc #3-26

26-3s-22w Norton KS

Job Ticket: 50584 **DST#: 2**

Test Start: 2013.03.14 @ 01:25:00

GENERAL INFORMATION:

Formation: **LKC-I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:28:30

Time Test Ended: 09:24:00

Test Type: Conventional Straddle (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: 3718.00 ft (KB) To 3784.00 ft (KB) (TVD)

Total Depth: 3903.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2351.00 ft (KB)

2346.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673 Below (Straddle)

Press @ Run Depth: psig @ 3785.00 ft (KB)

Start Date: 2013.03.14

End Date: 2013.03.14

Capacity: 8000.00 psig

Last Calib.: 2013.03.14

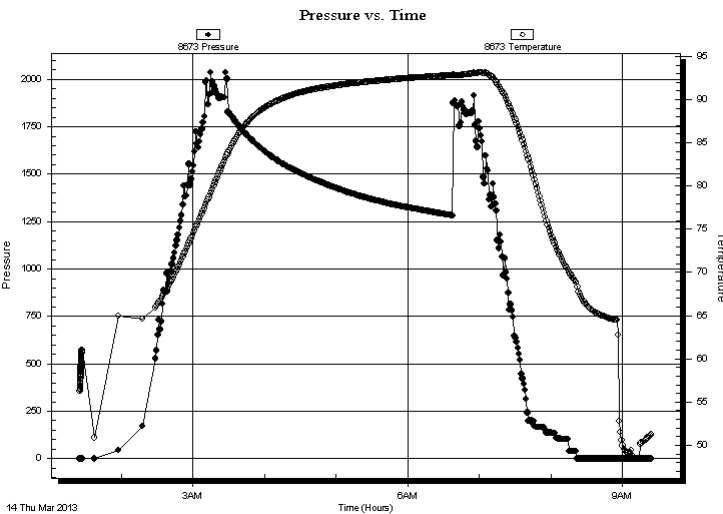
Start Time: 01:25:01

End Time: 09:25:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow , Built to B.O.B in 45 mins.
IS: No blow back over 45 mins.
FF: Weak blow , Built to 6 in. over 45 mins.
FS: No blow back over 45 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM-10%G20%O70%M	0.31
63.00	GOCM-20%G30%O50%M	0.36
126.00	GMCO-25%G5%M70%O	1.77
126.00	GO-40%G60%O	1.77

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

ATTN: Richard Bell

Job Ticket: 50584

DST#: 2

Test Start: 2013.03.14 @ 01:25:00

Tool Information

Drill Pipe:	Length: 3594.00 ft	Diameter: 3.80 inches	Volume: 50.41 bbl	Tool Weight: 2400.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 51.00 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3718.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3784.00 ft			
Interval between Packers:	66.00 ft			
Tool Length:	215.00 ft			
Number of Packers:	3	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			3693.00	
Sampler	2.00			3695.00	
Hydraulic tool	5.00			3700.00	
Jars	5.00			3705.00	
Safety Joint	3.00			3708.00	
Packer	5.00			3713.00	30.00 Bottom Of Top Packer
Packer	5.00			3718.00	
Stubb	1.00			3719.00	
Perforations	2.00			3721.00	
Recorder	0.00	8791	Inside	3721.00	
Recorder	0.00	8651	Outside	3721.00	
Change Over Sub	1.00			3722.00	
Blank Spacing	32.00			3754.00	
Change Over Sub	1.00			3755.00	
Perforations	24.00			3779.00	
Blank Off Sub	1.00			3780.00	
Blank Spacing	4.00			3784.00	66.00 Tool Interval
Packer	1.00			3785.00	
Packer - Shale	0.00			3785.00	
Recorder	0.00	8673	Below	3785.00	
Change Over Sub	1.00			3786.00	
Blank Spacing	94.00			3880.00	
Change Over Sub	1.00			3881.00	
Perforations	19.00			3900.00	
Bullnose	3.00			3903.00	119.00 Bottom Packers & Anchor

Total Tool Length: 215.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50584

DST#: 2

ATTN: Richard Bell

Test Start: 2013.03.14 @ 01:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	GOCM-10%G20%O70%M	0.310
63.00	GOCM-20%G30%O50%M	0.364
126.00	GMCO-25%G5%M70%O	1.767
126.00	GO-40%G60%O	1.767

Total Length: 378.00 ft

Total Volume: 4.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

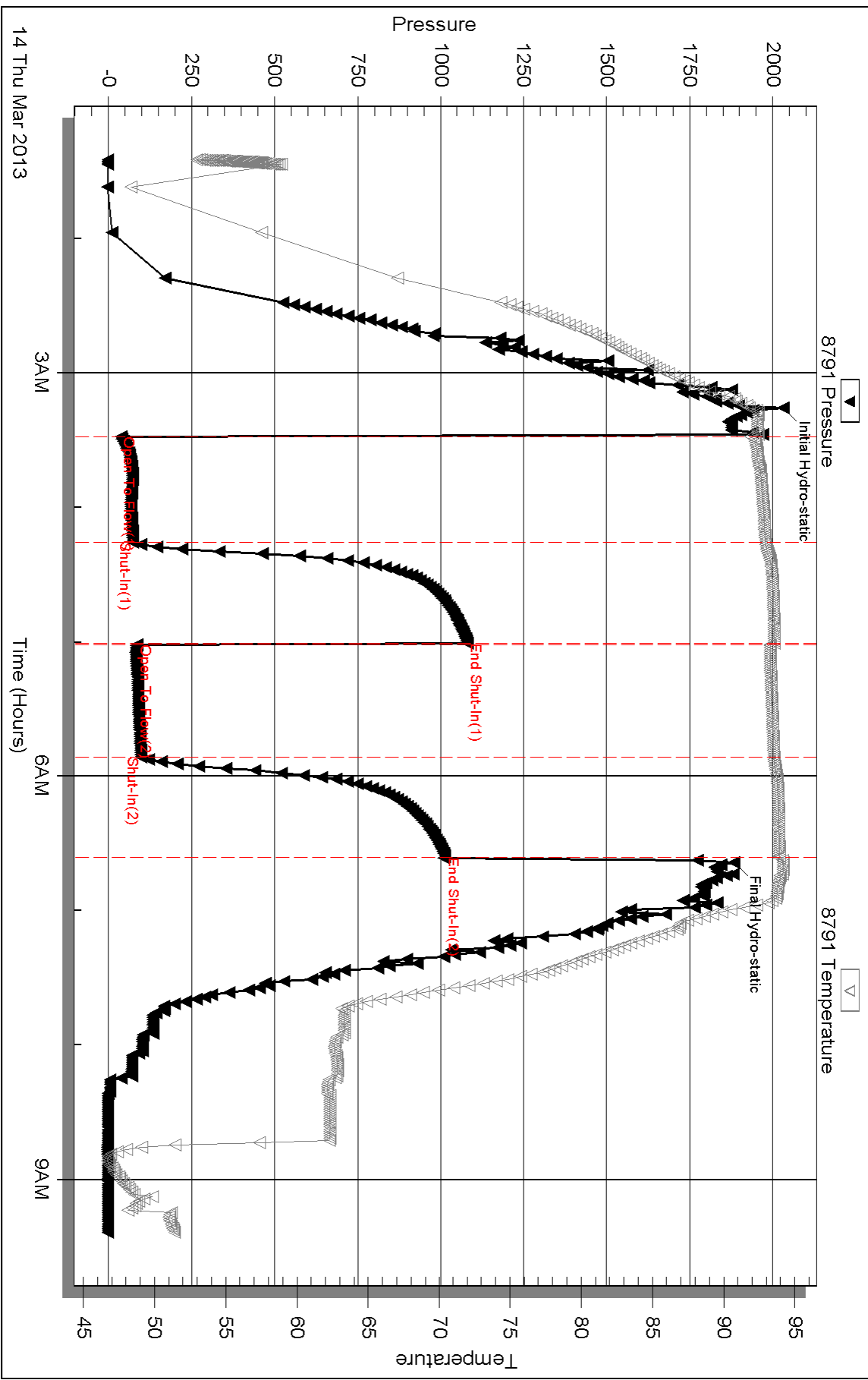
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

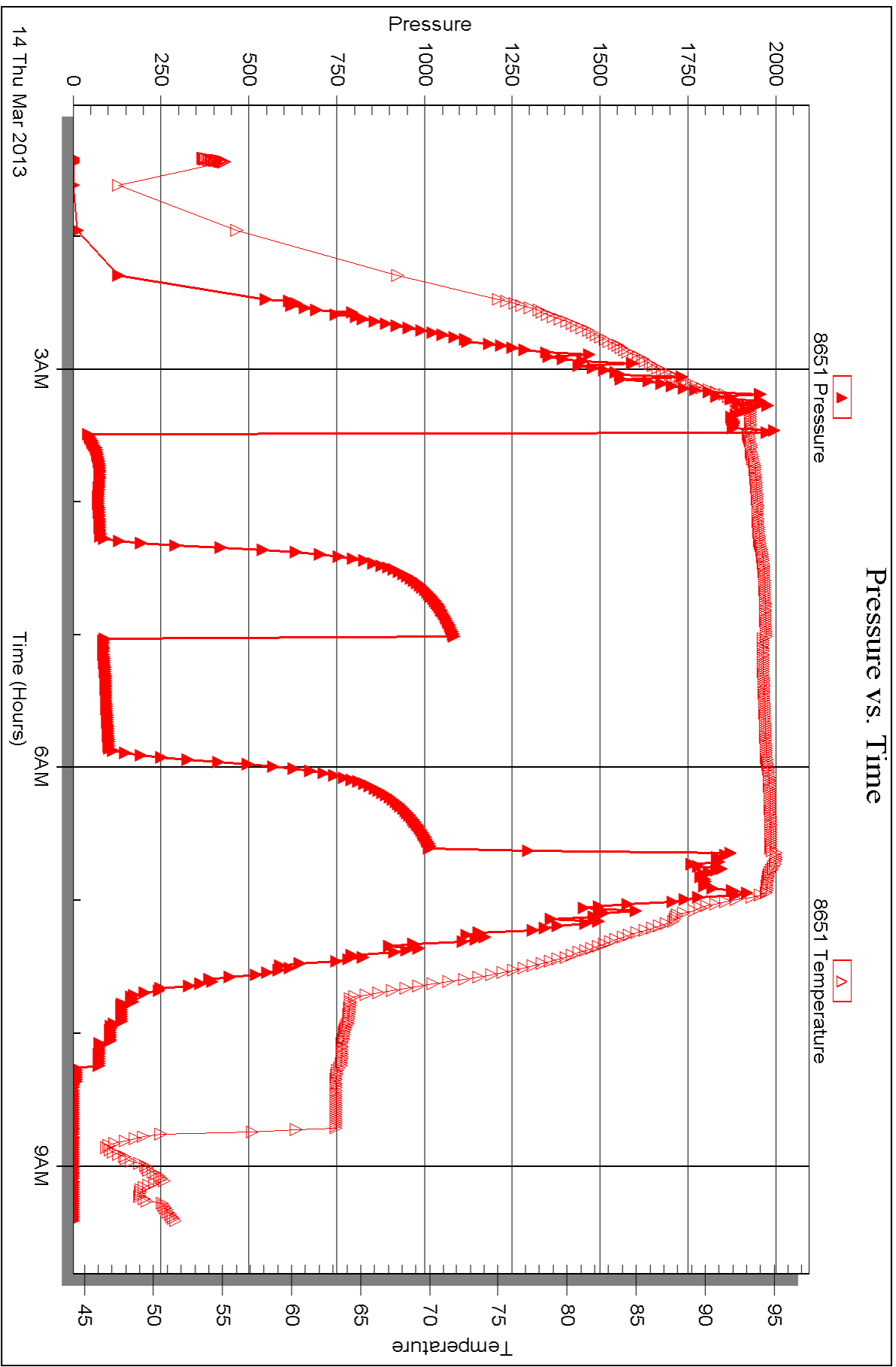


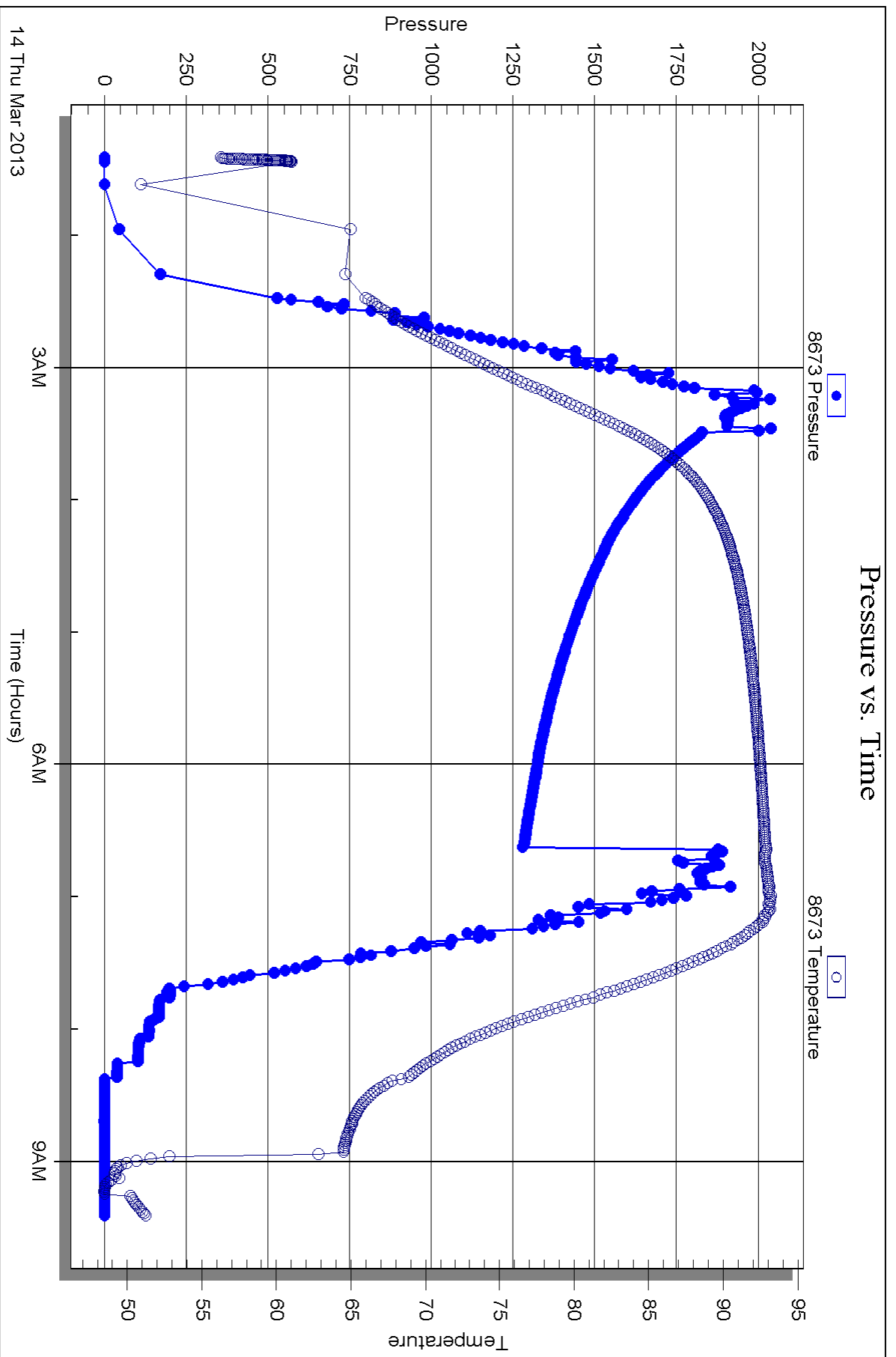
Serial #: 8651

Outside Baird Oil Company

26-3s-22w Norton KS

DST Test Number: 2







DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

26-3s-22w Norton KS

Esslinger Ranch Inc #3-26

Start Date: 2013.03.14 @ 13:15:00

End Date: 2013.03.14 @ 19:13:00

Job Ticket #: 50585 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.20 @ 10:03:55

Baird Oil Company

Esslinger Ranch Inc #3-26

26-3s-22w Norton KS

DST # 3

LKC

2013.03.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

ATTN: Richard Bell

Job Ticket: 50585

DST#: 3

Test Start: 2013.03.14 @ 13:15:00

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:00:30

Time Test Ended: 19:13:00

Test Type: Conventional Straddle (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3646.00 ft (KB) To 3685.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 292.12 psig @ 3647.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.14

End Date:

2013.03.14

Last Calib.:

2013.03.14

Start Time: 13:15:01

End Time:

19:13:00

Time On Btm:

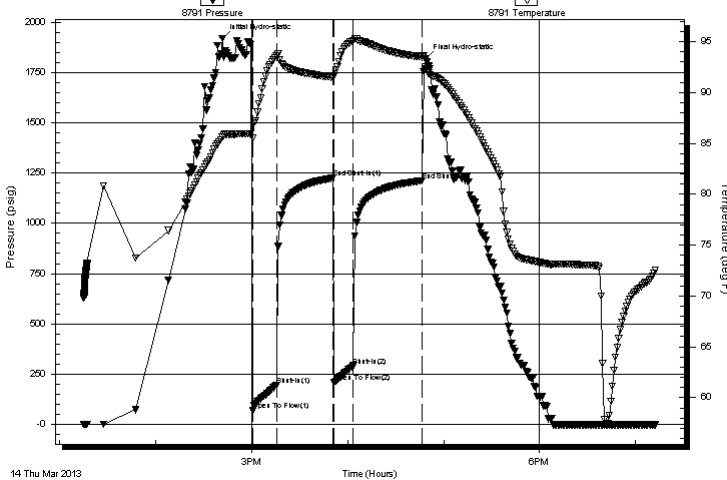
2013.03.14 @ 14:41:30

Time Off Btm:

2013.03.14 @ 16:49:00

TEST COMMENT: IF: Strong blow, Built to B.O.B in 4 mins.
IS: No blow back over 30 mins.
FF: Strong blow, Built to B.O.B in 6 mins.
FS: No blow back over 30 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.84	85.63	Initial Hydro-static
19	68.58	85.52	Open To Flow (1)
34	196.26	93.61	Shut-In(1)
69	1225.25	91.50	End Shut-In(1)
70	207.93	91.62	Open To Flow (2)
82	292.12	95.12	Shut-In(2)
125	1212.34	93.50	End Shut-In(2)
128	1818.52	92.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw -5% m95% w	0.59
126.00	mcw -25% m75% w	1.77
126.00	w cm-50% w 50% m	1.77
209.00	mud-100%	2.93

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50585

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.14 @ 13:15:00

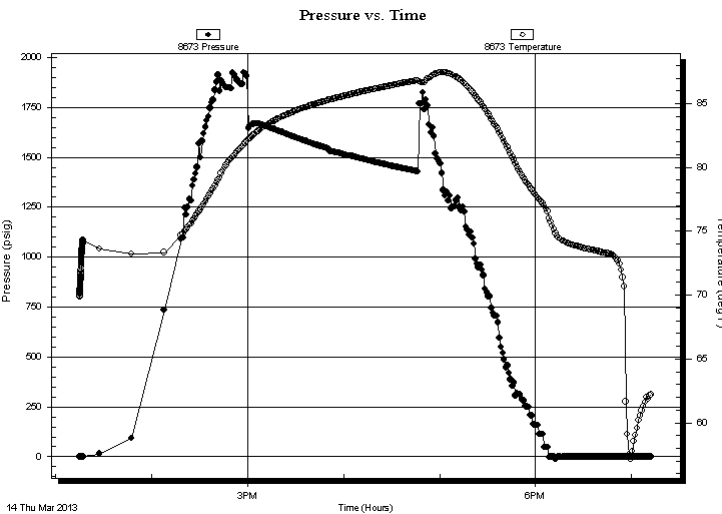
GENERAL INFORMATION:

Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 15:00:30
 Tester: Chuck Kreutzer Jr.
 Time Test Ended: 19:13:00
 Unit No: 61
 Interval: **3646.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Reference Elevations: 2351.00 ft (KB)
 Total Depth: 3903.00 ft (KB) (TVD)
 2346.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8673 Below (Straddle)

Press @ Run Depth: psig @ 3686.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2013.03.14 End Date: 2013.03.14 Last Calib.: 2013.03.14
 Start Time: 13:15:01 End Time: 19:12:30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow , Built to B.O.B in 4 mins.
 IS: No blow back over 30 mins.
 FF: Strong blow , Built to B.O.B in 6 mins.
 FS: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw -5% m95%w	0.59
126.00	mcw -25% m75%w	1.77
126.00	w cm-50%w 50%m	1.77
209.00	mud-100%	2.93

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50585

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.14 @ 13:15:00

Tool Information

Drill Pipe:	Length: 3530.00 ft	Diameter: 3.80 inches	Volume: 49.52 bbl	Tool Weight: 2400.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.11 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3646.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	3685.00 ft			
Interval between Packers:	39.00 ft			
Tool Length:	287.00 ft			
Number of Packers:	3	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			3621.00	
Sampler	2.00			3623.00	
Hydraulic tool	5.00			3628.00	
Jars	5.00			3633.00	
Safety Joint	3.00			3636.00	
Packer	5.00			3641.00	30.00 Bottom Of Top Packer
Packer	5.00			3646.00	
Stubb	1.00			3647.00	
Recorder	0.00	8791	Inside	3647.00	
Recorder	0.00	8651	Outside	3647.00	
Perforations	33.00			3680.00	
Blank Off Sub	1.00			3681.00	
Blank Spacing	4.00			3685.00	39.00 Tool Interval
Packer	1.00			3686.00	
Packer - Shale	0.00			3686.00	
Recorder	0.00	8673	Below	3686.00	
Change Over Sub	1.00			3687.00	
Blank Spacing	188.00			3875.00	
Change Over Sub	1.00			3876.00	
Perforations	24.00			3900.00	
Bullnose	3.00			3903.00	218.00 Bottom Packers & Anchor

Total Tool Length: 287.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Esslinger Ranch Inc #3-26

PO Box 428
Logan KS 67646

26-3s-22w Norton KS

Job Ticket: 50585

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.14 @ 13:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.21 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	mcw -5%m95%w	0.590
126.00	mcw -25%m75%w	1.767
126.00	w cm-50%w 50%m	1.767
209.00	mud-100%	2.932

Total Length: 581.00 ft

Total Volume: 7.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

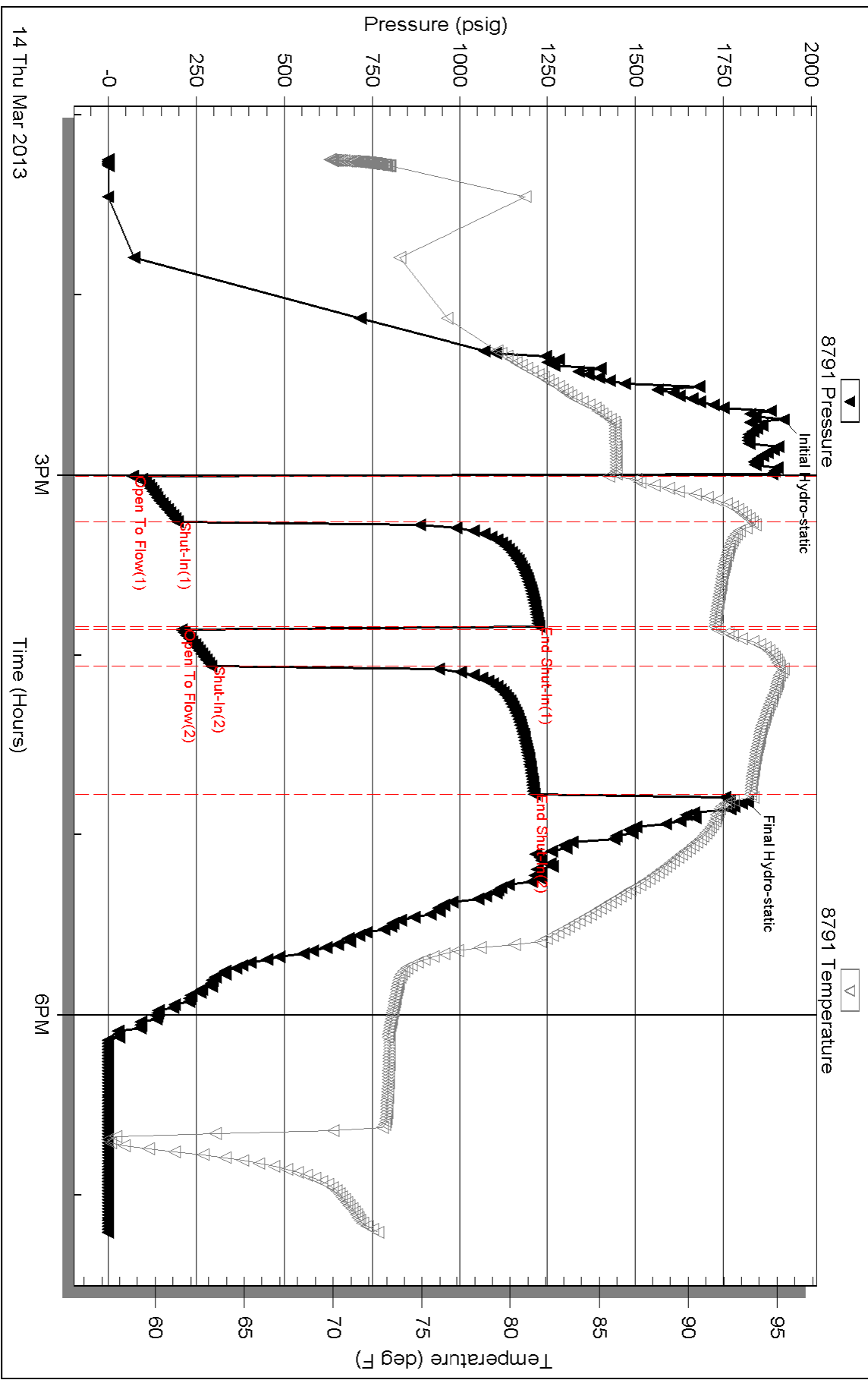
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

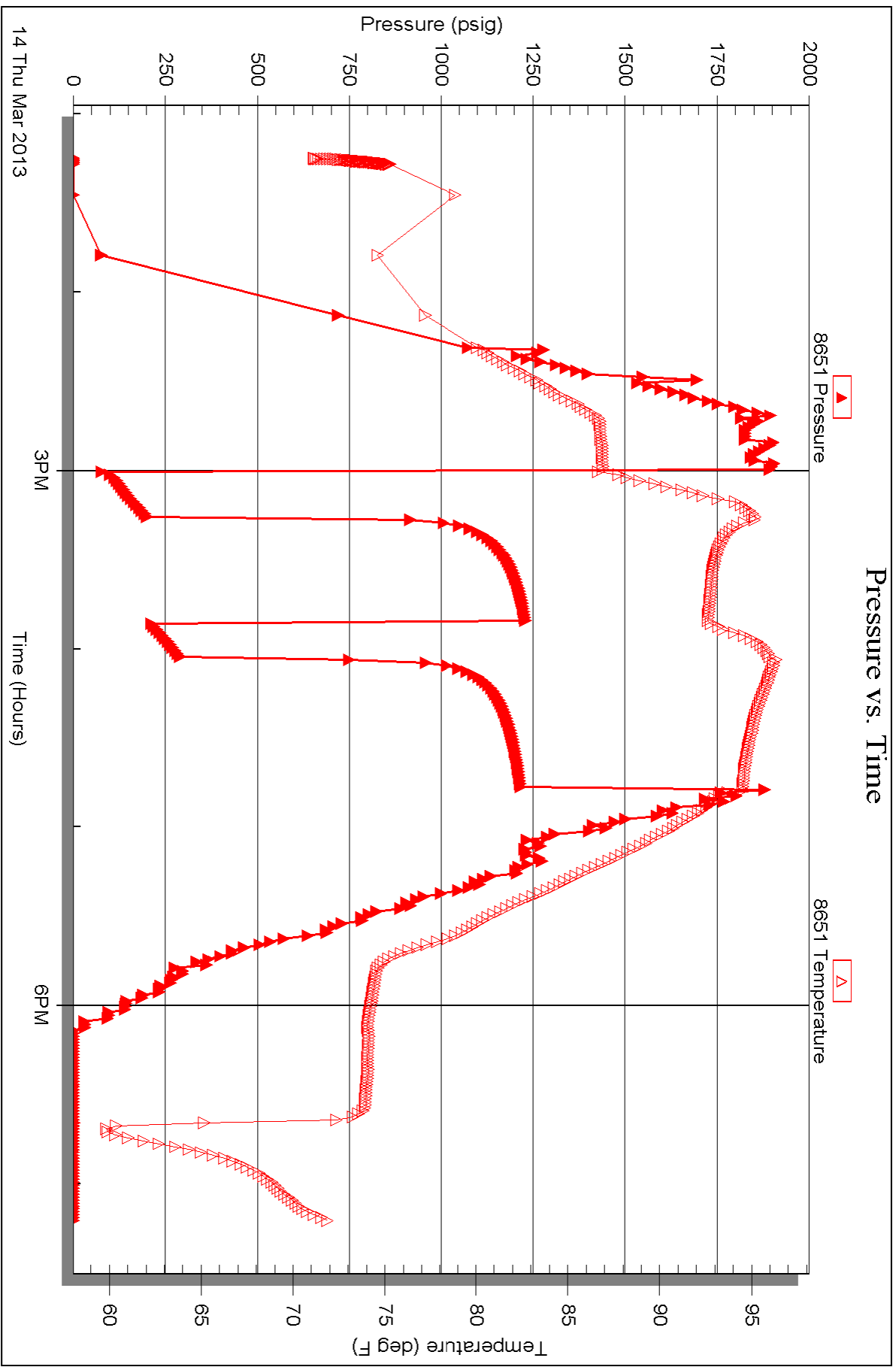


Serial #: 8651

Outside Baird Oil Company

26-3s-22w Norton KS

DST Test Number: 3

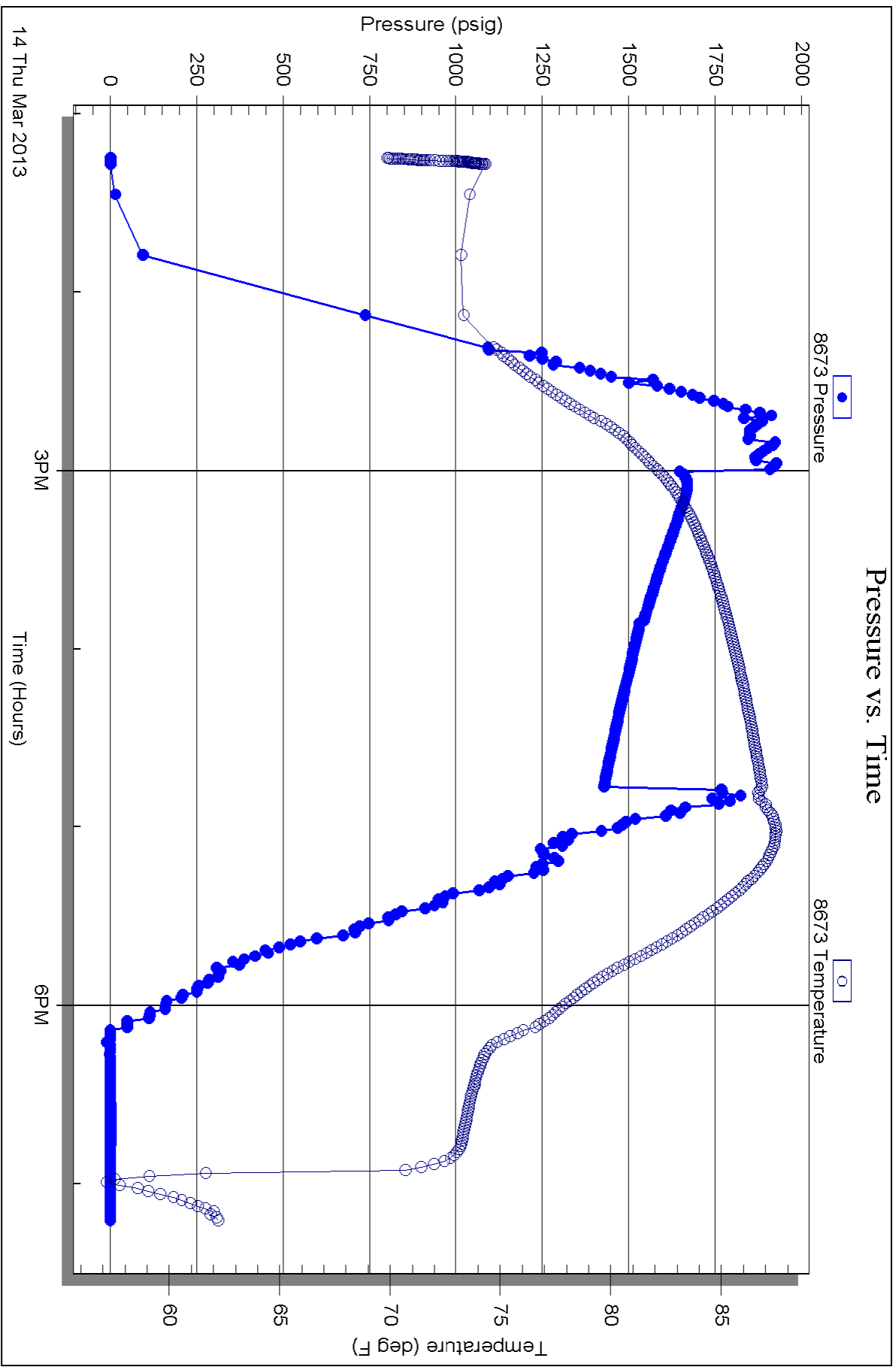


Serial #: 8673

Below (Stratfield) Oil Company

26-35-22w Norton KS

DST Test Number: 3



14 Thu Mar 2013

3 PM

Time (Hours)

6 PM



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50583**

4/10

Well Name & No. Esslinger Ranch, Inc. #3-26 Test No. 1 Date 3-13-2013
 Company Baird oil company Elevation 2357 KB 2346 GL
 Address 113 W. Main Logan P.O. Box 428
 Co. Rep / Geo. Richard Bell Rig WW#12
 Location: Sec. 26 Twp. 35 Rge. 22W Co. Morton State Ks

Interval Tested 3851 3903 Zone Tested ~~BSL~~ BSL Per sand
 Anchor Length 52 Drill Pipe Run 3719 Mud Wt. 9.6
 Top Packer Depth 3846 Drill Collars Run 120 Vis 58
 Bottom Packer Depth 3851 Wt. Pipe Run 0 WL 7.2
 Total Depth 3903 Chlorides 1200 ppm System LCM 5

Blow Description IF: strong blow, B.O.B in 10 mins.
ISI: No blow back
FI: strong blow, B.O.B in 12 mins.
FSD: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>189</u>	<u>WCM</u>			<u>40</u>	<u>60</u>
<u>189</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>372</u>	<u>MCW</u>			<u>90</u>	<u>10</u>

Rec Total 750 BHT 96 Gravity ' API RW .38 @ 56 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic <u>2084</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:00</u>
(B) First Initial Flow <u>71</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:30</u>
(C) First Final Flow <u>231</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:03</u>
(D) Initial Shut-In <u>1025</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:05</u>
(E) Second Initial Flow <u>250</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:48</u>
(F) Second Final Flow <u>373</u>	<input checked="" type="checkbox"/> Mileage <u>40.22 47 miles</u>	Comments
(G) Final Shut-In <u>1017</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1955</u>	<input type="checkbox"/> Straddle	

Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1620.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1620.70</u>	

Approved By _____ Our Representative Chuck Payne

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50584**

4/10

Well Name & No. Esslinger Ranch #3-26 Test No. 2 Date 3-14-2013
 Company Baird oil company Elevation 2357 KB 2346 GL
 Address 113 W. Main Logan P.O. Box 428
 Co. Rep / Geo. Richard Bell Rig ww#12
 Location: Sec. 26 Twp. 35 Rge. 22W Co. Norton State Ks.

Interval Tested 3718 3784 Zone Tested LKC-I, J, K
 Anchor Length 66 Drill Pipe Run 3594 Mud Wt. 9.6
 Top Packer Depth 3713 Drill Collars Run 120 Vis 58
 Bottom Packer Depth 3784 Wt. Pipe Run -0- WL 7.2
 Total Depth 3903 Chlorides 1200 ppm System LCM .5#

Blow Description IF: Weak blow, Built to B.O.B in. 45 mins.
ISI: No blow back over 45 mins.
FF: Weak blow, Built to 6 in. over 45 mins
FSI: No blow back over 45 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>go</u>	<u>40</u>	<u>60</u>		
<u>126</u>	<u>gmco</u>	<u>25</u>	<u>70</u>		<u>5</u>
<u>63</u>	<u>gocm</u>	<u>20</u>	<u>30</u>		<u>50</u>
<u>63</u>	<u>gocm</u>	<u>10</u>	<u>20</u>		<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 94 Gravity 27 API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2031 Test 1150 T-On Location Never Left
 (B) First Initial Flow 39 Jars 250 T-Started 1:25
 (C) First Final Flow 74 Safety Joint 75 T-Open 3:28
 (D) Initial Shut-In 1082 Circ Sub T-Pulled 6:15
 (E) Second Initial Flow 87 Hourly Standby T-Out 9:24
 (F) Second Final Flow 99 Mileage Accounting No Mileage Comments Ran 2 tests Back to Back
 (G) Final Shut-In 1014 Sampler
 (H) Final Hydrostatic 1883 Straddle 600

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 2075
 MP/DST Disc't _____
 Sub Total 2075

Approved By _____ Our Representative Chuck August

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50585

4/10

Well Name & No. Esslinger Ranch # 3-26 Test No. 3 Date 03-14-2013
 Company Baird oil company Elevation 2357 KB 2346 GL
 Address 113 W. Main Logan Rd. Box 428
 Co. Rep / Geo. _____ Rig _____
 Location: Sec. _____ Twp. _____ Rge. _____ Co. _____ State _____

Interval Tested 3646 3685 Zone Tested LKC-
 Anchor Length _____ 39 Drill Pipe Run 3530 Mud Wt. 9.6
 Top Packer Depth _____ 3641 Drill Collars Run 120 Vis 58
 Bottom Packer Depth _____ 3685 Wt. Pipe Run 0 WL 3.2
 Total Depth _____ 3903 Chlorides 1200 ppm System LCM .5#

Blow Description IF: Strong blow, Built to B.O.B in 4 mins.
ISI: No blow back over 30 mins
FF: strong blow, Built to B. QB in 6 mins.
FSI: No blow back over 30 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>209</u>	<u>Mud</u>			<u>100</u>	
<u>126</u>	<u>WCM</u>			<u>50</u>	<u>50</u>
<u>126</u>	<u>MCM</u>			<u>75</u>	<u>25</u>
<u>126</u>	<u>MCM</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 581 BHT 95 Gravity _____ API RW .21 @ 70 ° F Chlorides 32,000 ppm

(A) Initial Hydrostatic _____ <u>1920</u>	<input checked="" type="checkbox"/> Test _____ 1150	T-On Location <u>never left</u>
(B) First Initial Flow _____ <u>69</u>	<input checked="" type="checkbox"/> Jars _____ 250	T-Started _____ <u>13:15</u>
(C) First Final Flow _____ <u>196</u>	<input checked="" type="checkbox"/> Safety Joint _____ 75	T-Open _____ <u>15:00</u>
(D) Initial Shut-In _____ <u>1225</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled _____ <u>18:45</u>
(E) Second Initial Flow _____ <u>208</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____ <u>19:13</u>
(F) Second Final Flow _____ <u>292</u>	<input checked="" type="checkbox"/> Mileage <u>49 miles Home From Rig</u>	Comments _____
(G) Final Shut-In _____ <u>1212</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic _____ <u>1819</u>	<input checked="" type="checkbox"/> Straddle _____ 600	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open _____ <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In _____ <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow _____ <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total _____ <u>0</u>
Final Shut-In _____ <u>30</u>	<input type="checkbox"/> Day Standby _____	Total _____ <u>2075</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total _____ <u>2075</u>	

Approved By _____ Our Representative Chub [Signature]

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