



## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #2-27**

Start Date: 2013.03.30 @ 05:36:00

End Date: 2013.03.30 @ 09:43:30

Job Ticket #: 50619                      DST #: 1

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

Printed: 2013.04.04 @ 14:58:29



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

ATTN: Richard Bell

Job Ticket: 50619

**DST#: 1**

Test Start: 2013.03.30 @ 05:36:00

## GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:22:45

Time Test Ended: 09:43:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 57

**Interval: 3552.00 ft (KB) To 3572.00 ft (KB) (TVD)**

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3572.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 21.48 psig @ 3553.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.30

End Date:

2013.03.30

Last Calib.:

2013.03.30

Start Time: 05:36:05

End Time:

09:43:30

Time On Btm:

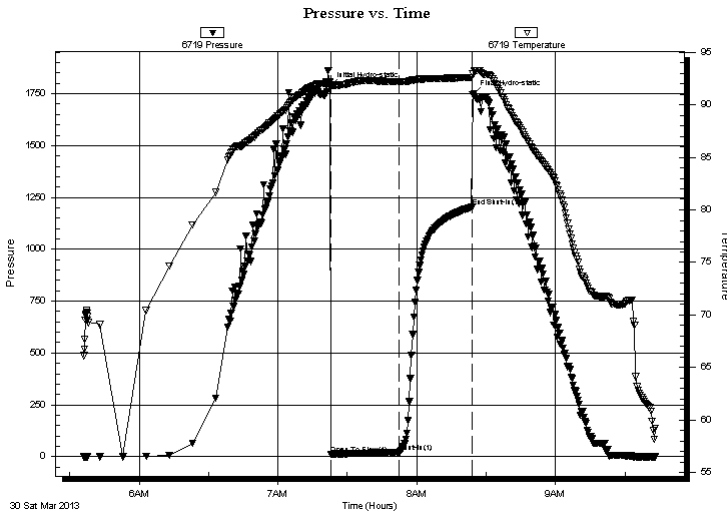
2013.03.30 @ 07:22:30

Time Off Btm:

2013.03.30 @ 08:24:15

TEST COMMENT: 30 IF - Surface blow  
30 ISI - No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1784.55	92.16	Initial Hydro-static
1	10.19	91.63	Open To Flow (1)
30	21.48	92.20	Shut-In(1)
62	1202.96	92.60	End Shut-In(1)
62	1745.27	92.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud - 100%M	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50619

**DST#: 1**

ATTN: Richard Bell

Test Start: 2013.03.30 @ 05:36:00

## Tool Information

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 48.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3552.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	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			3537.00	
Hydraulic tool	5.00			3542.00	
Packer	5.00			3547.00	20.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.00	6719	Inside	3553.00	
Recorder	0.00	8320	Outside	3553.00	
Perforations	16.00			3569.00	
Bullnose	3.00			3572.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50619

**DST#: 1**

ATTN: Richard Bell

Test Start: 2013.03.30 @ 05:36:00

### 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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.76 in<sup>3</sup>

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 bbl
15.00	Mud - 100%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

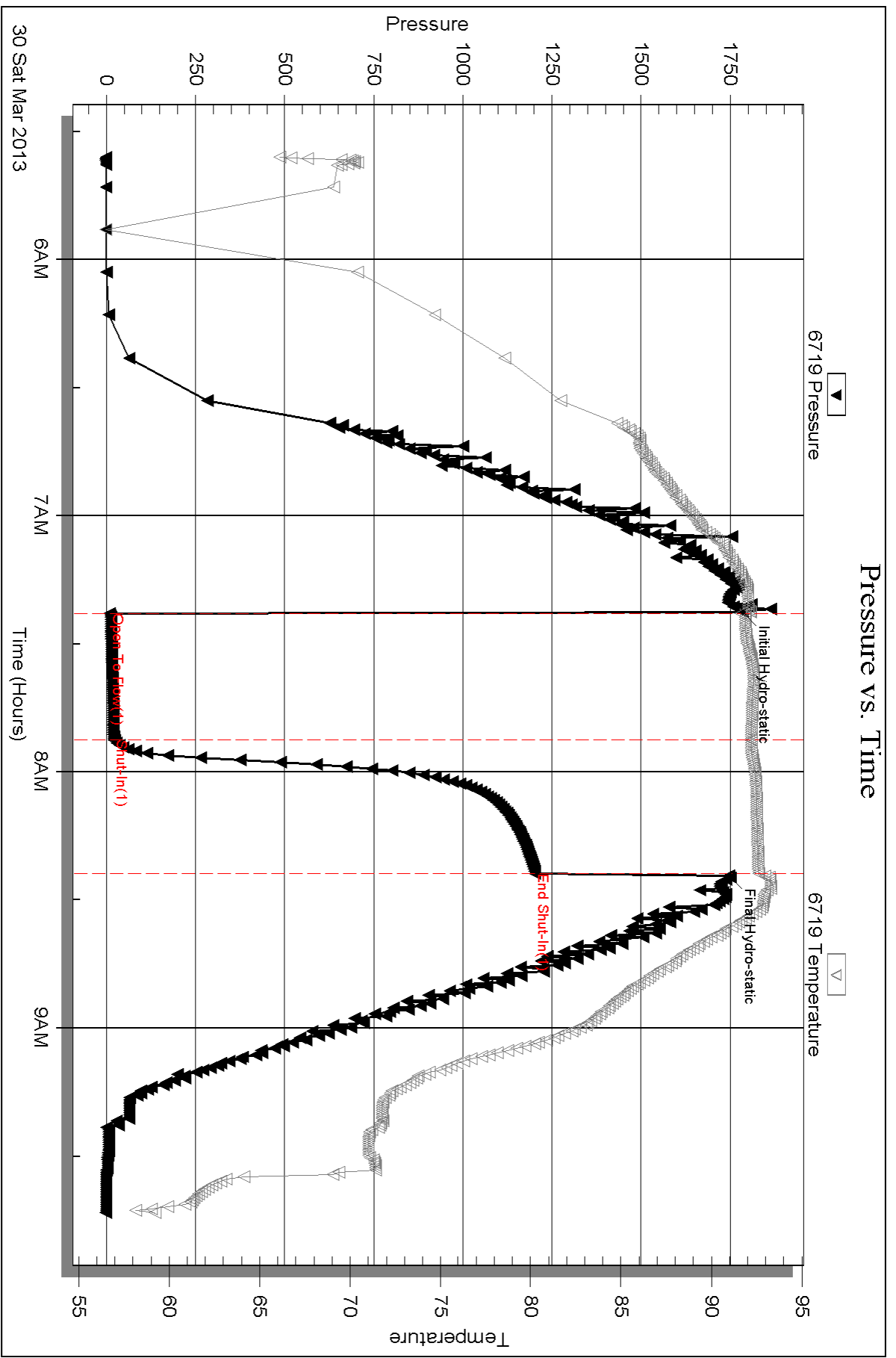
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

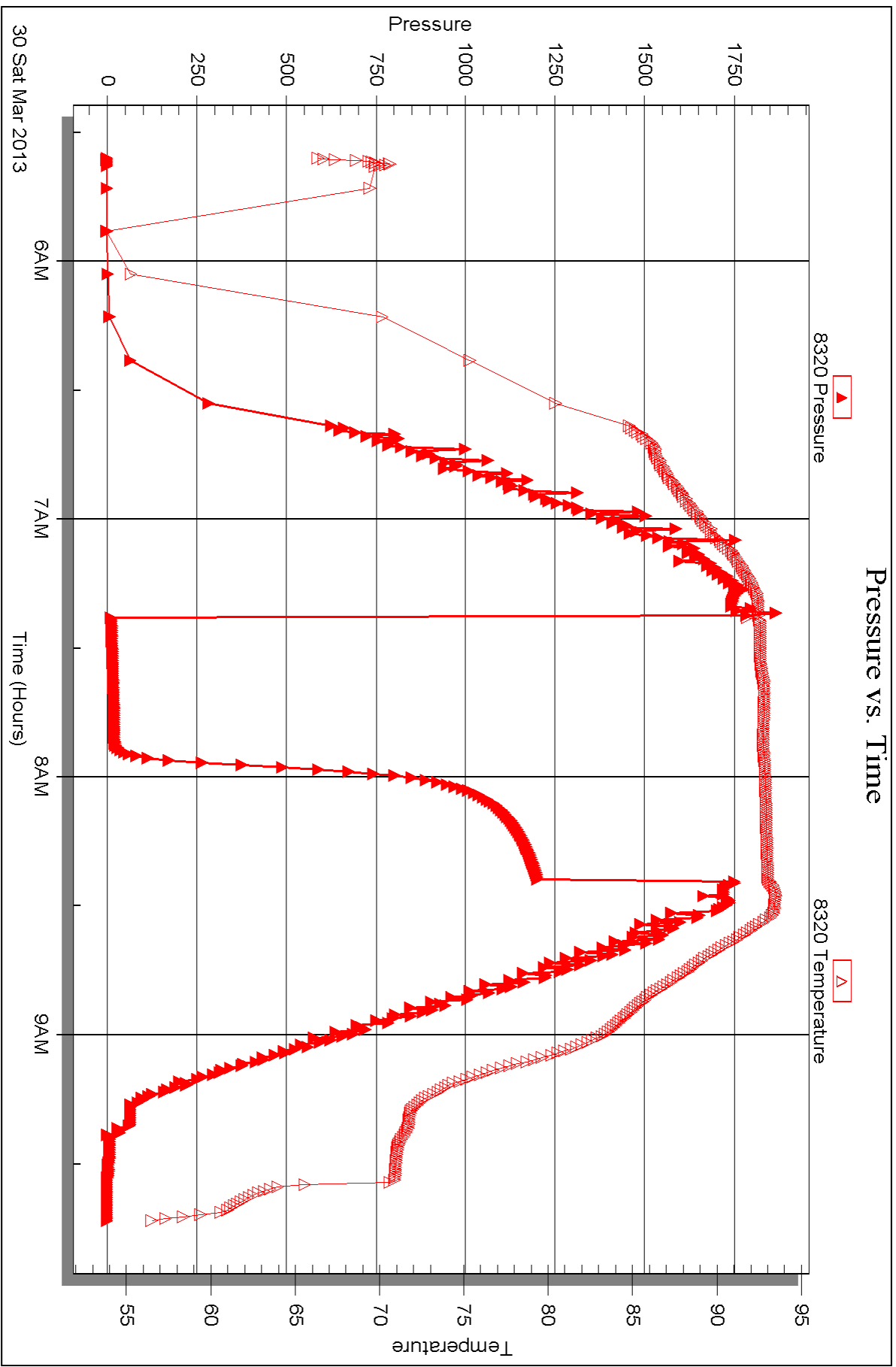


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #2-27**

Start Date: 2013.03.30 @ 15:26:00

End Date: 2013.03.30 @ 21:48:45

Job Ticket #: 50620                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:57:13

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 2

LKC " C "

2013.03.30





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

ATTN: Richard Bell

Job Ticket: 50620

**DST#: 2**

Test Start: 2013.03.30 @ 15:26:00

## GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:30

Time Test Ended: 21:48:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

**Interval: 3576.00 ft (KB) To 3600.00 ft (KB) (TVD)**

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8320 Outside**

Press @ Run Depth: 70.03 psig @ 3577.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.30

End Date: 2013.03.30

Last Calib.: 2013.03.30

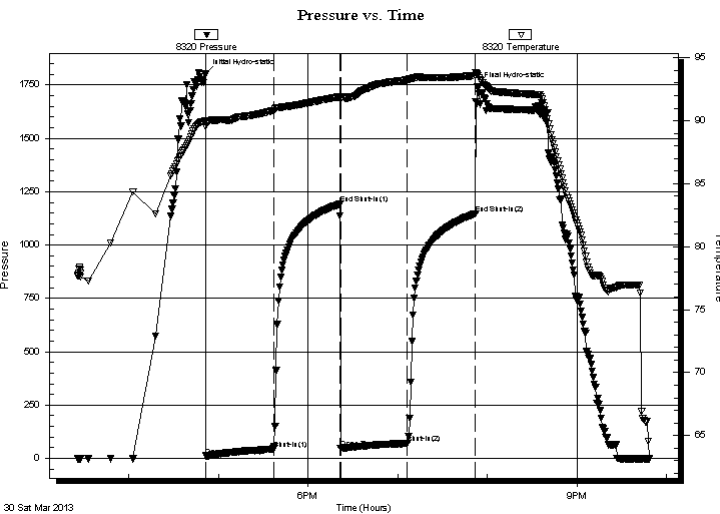
Start Time: 15:26:05

End Time: 21:48:44

Time On Btm: 2013.03.30 @ 16:51:15

Time Off Btm: 2013.03.30 @ 19:53:15

**TEST COMMENT:** 45 IF - Surface blow built to 3"  
45 ISI - No return  
45 FF - Surface blow started @ 9 mins built to 1 1/2"  
45 FSI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.73	89.97	Initial Hydro-static
1	11.75	89.55	Open To Flow (1)
46	45.14	90.83	Shut-In(1)
90	1191.68	91.90	End Shut-In(1)
91	47.86	91.71	Open To Flow (2)
136	70.03	93.24	Shut-In(2)
181	1146.72	93.58	End Shut-In(2)
182	1743.79	93.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM - 45%W - 55%M	0.30
60.00	MCW - 30%M - 70%W	0.30
5.00	Mud w/oil spots - 100%M	0.06

\* 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, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50620

**DST#: 2**

ATTN: Richard Bell

Test Start: 2013.03.30 @ 15:26:00

## Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3576.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	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			3561.00	
Hydraulic tool	5.00			3566.00	
Packer	5.00			3571.00	20.00 Bottom Of Top Packer
Packer	5.00			3576.00	
Stubb	1.00			3577.00	
Recorder	0.00	6719	Inside	3577.00	
Recorder	0.00	8320	Outside	3577.00	
Perforations	20.00			3597.00	
Bullnose	3.00			3600.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50620

**DST#: 2**

ATTN: Richard Bell

Test Start: 2013.03.30 @ 15:26:00

## 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:

13000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

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 bbl
60.00	WCM - 45%W - 55%M	0.295
60.00	MCW - 30%M - 70%W	0.295
5.00	Mud w /oil spots - 100%M	0.061

Total Length: 125.00 ft      Total Volume: 0.651 bbl

Num Fluid Samples: 0

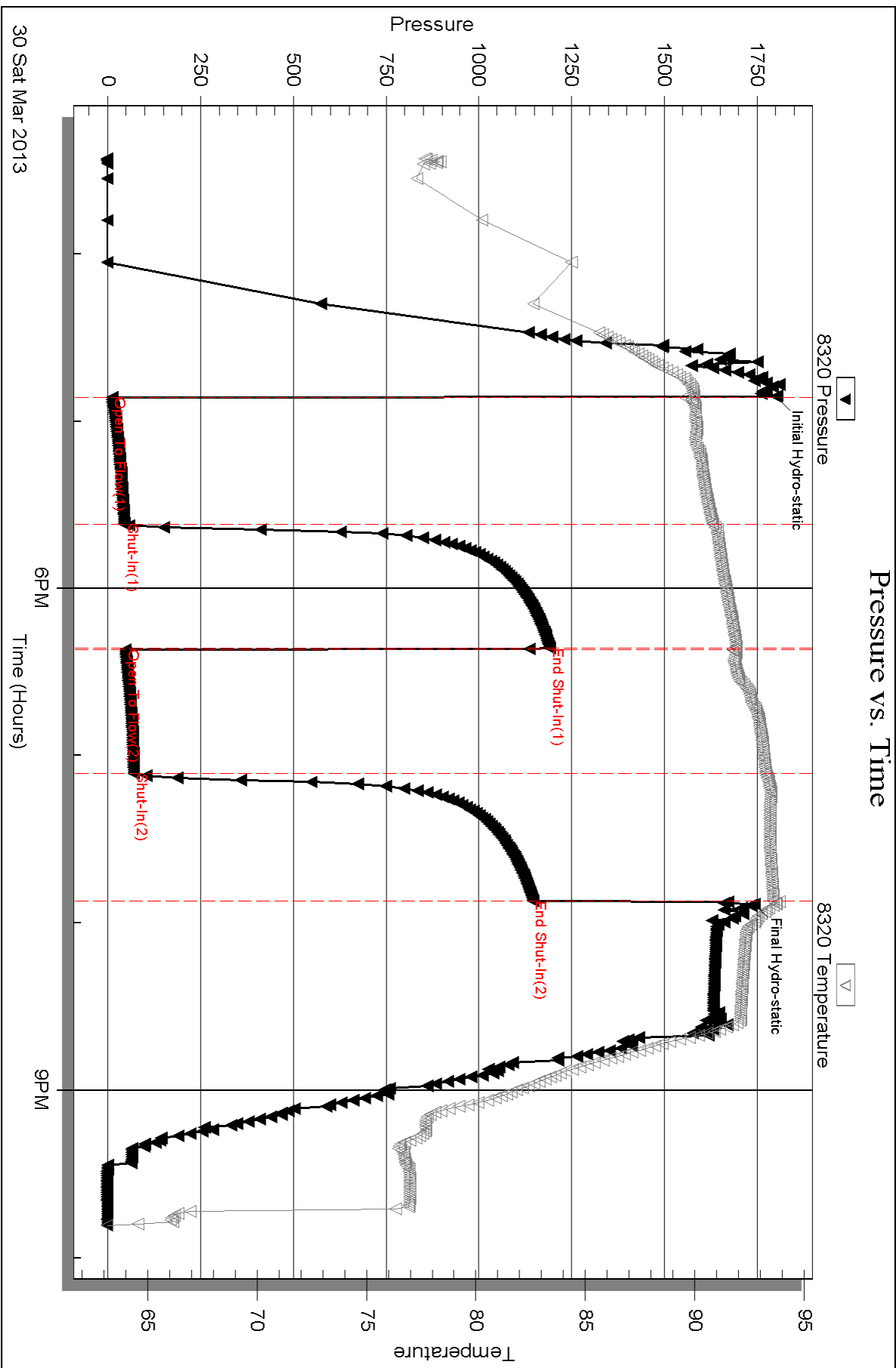
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .552 @ 62 DEG F



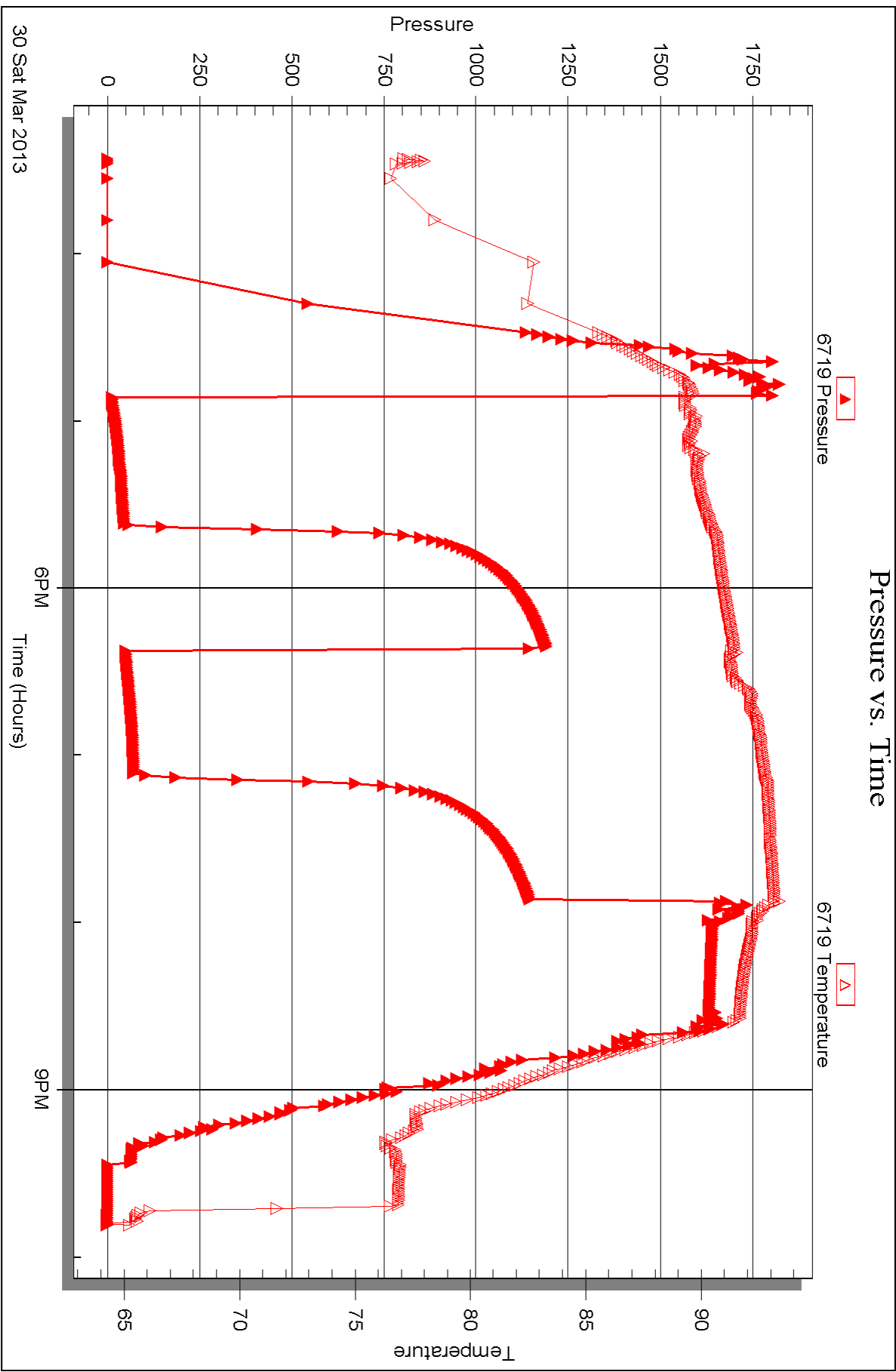
Serial #: 6719

Inside

Baird Oil Company, LLC

27-3s-22w Norton KS

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #2-27**

Start Date: 2013.03.31 @ 04:15:00

End Date: 2013.03.31 @ 10:17:00

Job Ticket #: 50621                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:56:06

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 3

LCK " D "

2013.03.31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Esslinger Ranch Inc #2-27**

**27-3s-22w Norton, KS**

Job Ticket: 50621

**DST#: 3**

Test Start: 2013.03.31 @ 04:15:00

## GENERAL INFORMATION:

Formation: **LCK " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:49:30

Time Test Ended: 10:17:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

**Interval: 3597.00 ft (KB) To 3618.00 ft (KB) (TVD)**

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3618.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

## Serial #: 6719

Inside

Press @ Run Depth: 63.44 psig @ 3598.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.31

End Date:

2013.03.31

Last Calib.: 2013.03.31

Start Time: 04:15:05

End Time:

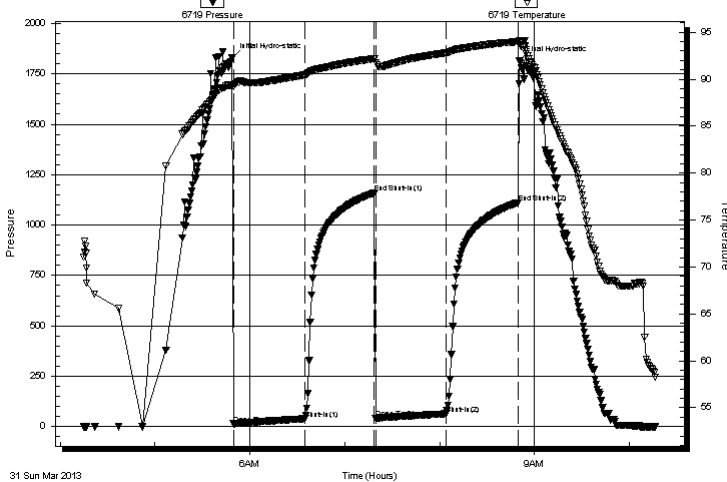
10:16:59

Time On Btm: 2013.03.31 @ 05:49:00

Time Off Btm: 2013.03.31 @ 08:50:30

**TEST COMMENT:** 45 IF - 1/4" blow built to 3"  
45 ISI - No return  
45 FF - Surface blow started @ 12 mins built to 1"  
45 FSI - No return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.35	89.43	Initial Hydro-static
1	13.61	89.27	Open To Flow (1)
46	39.19	90.45	Shut-In(1)
90	1159.22	92.19	End Shut-In(1)
91	42.40	91.74	Open To Flow (2)
135	63.44	92.79	Shut-In(2)
181	1111.75	93.99	End Shut-In(2)
182	1814.82	93.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 20%M - 80%W	0.30
5.00	MCW - 10%M - 90%W	0.02

\* 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, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

ATTN: Richard Bell

Job Ticket: 50621

**DST#: 3**

Test Start: 2013.03.31 @ 04:15:00

## Tool Information

Drill Pipe:	Length: 3469.00 ft	Diameter: 3.80 inches	Volume: 48.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3597.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	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			3582.00	
Hydraulic tool	5.00			3587.00	
Packer	5.00			3592.00	20.00 Bottom Of Top Packer
Packer	5.00			3597.00	
Stubb	1.00			3598.00	
Recorder	0.00	6719	Inside	3598.00	
Recorder	0.00	8320	Outside	3598.00	
Perforations	17.00			3615.00	
Bullnose	3.00			3618.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50621

**DST#: 3**

ATTN: Richard Bell

Test Start: 2013.03.31 @ 04:15:00

## 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:

11000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in<sup>3</sup>

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
60.00	MCW - 20%M - 80%W	0.295
5.00	MCW - 10%M - 90%W	0.025

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

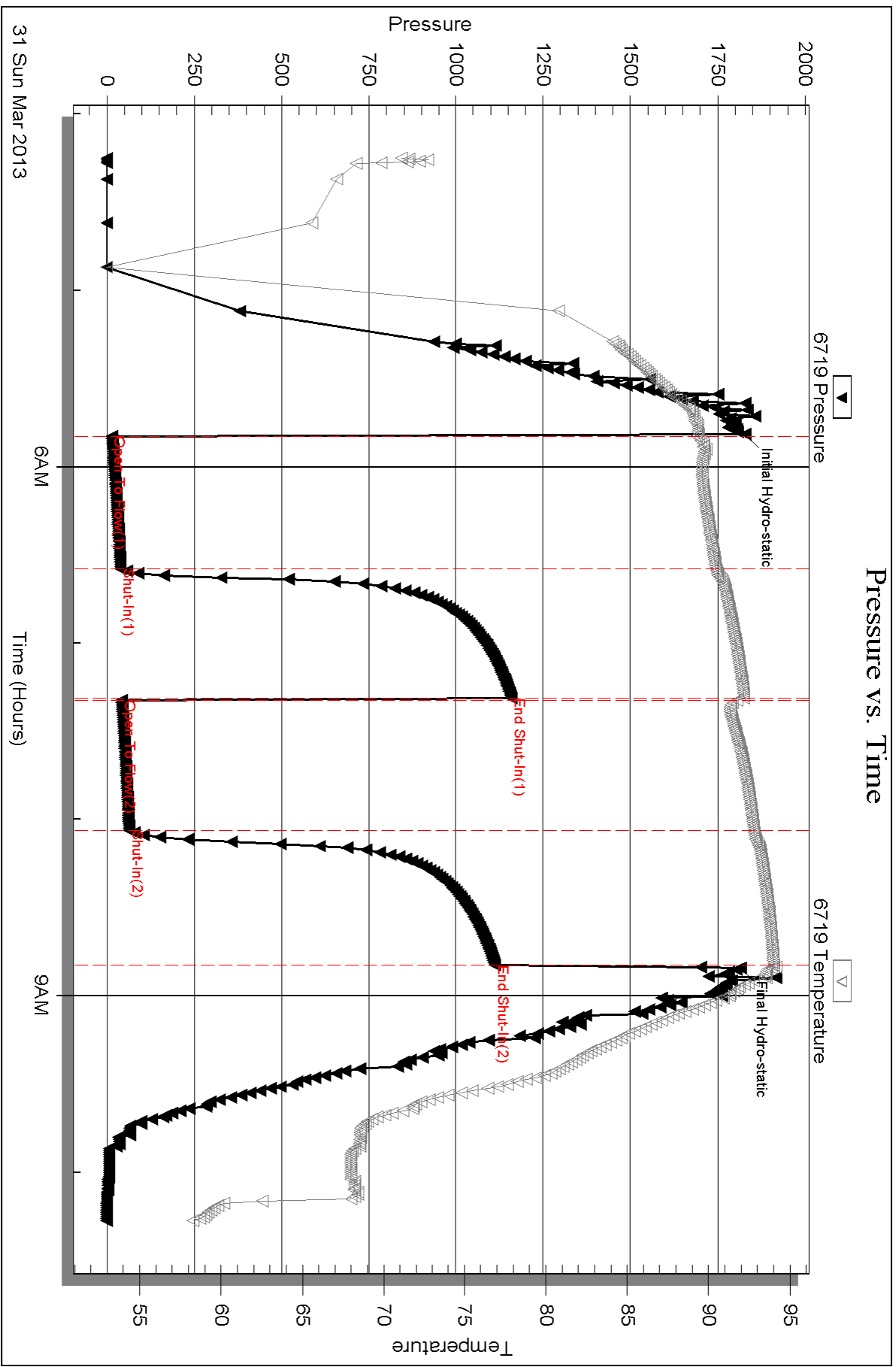
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 496' GIP

RW = .328 @ 52 DEG F



31 Sun Mar 2013

6AM

Time (Hours)

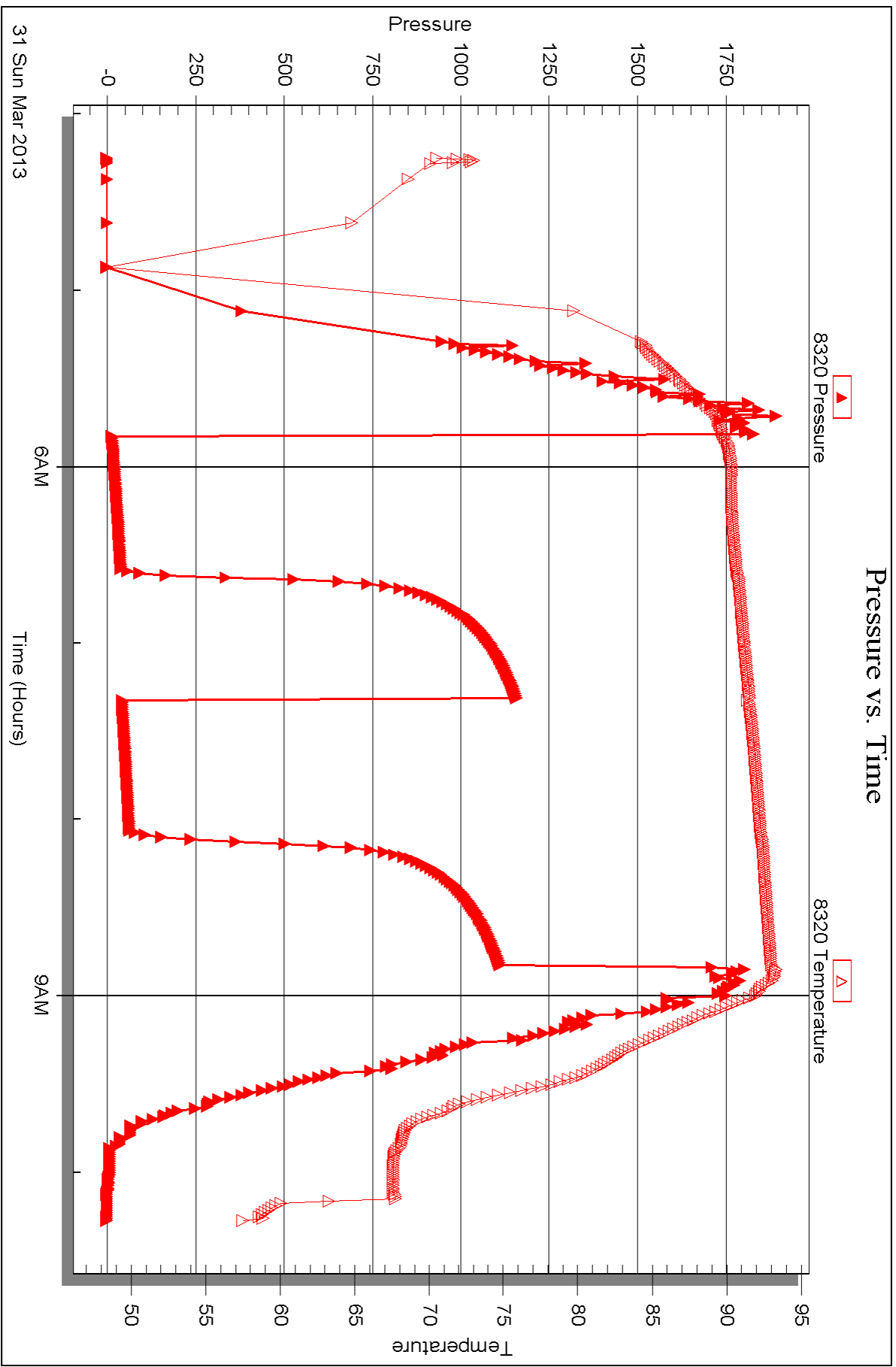
9AM

Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #2-27**

Start Date: 2013.03.31 @ 16:13:00

End Date: 2013.03.31 @ 20:15:00

Job Ticket #: 50622                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:54:38

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 4

LKC " F "

2013.03.31



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton, KS**

ATTN: Richard Bell

Job Ticket: 50622

**DST#: 4**

Test Start: 2013.03.31 @ 16:13:00

## GENERAL INFORMATION:

Formation: **LKC " F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:48:30

Time Test Ended: 20:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

**Interval: 3618.00 ft (KB) To 3638.00 ft (KB) (TVD)**

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3638.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6719**

**Inside**

Press @ RunDepth: 19.02 psig @ 3619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.31

End Date:

2013.03.31

Last Calib.:

2013.03.31

Start Time: 16:13:05

End Time:

20:15:00

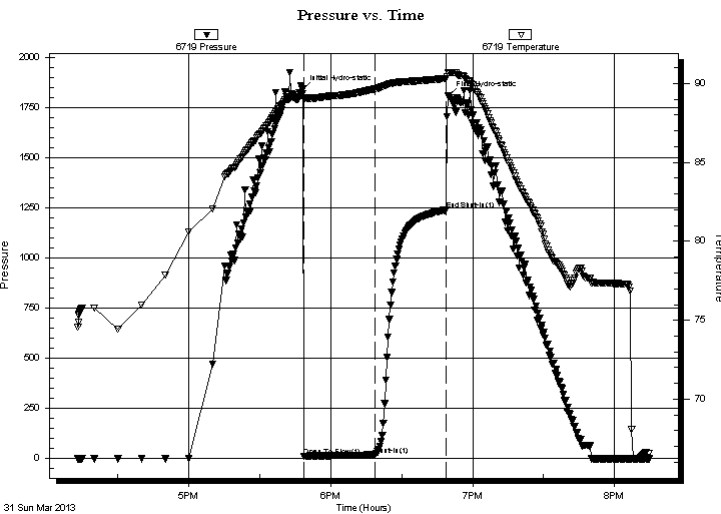
Time On Btm:

2013.03.31 @ 17:48:15

Time Off Btm:

2013.03.31 @ 18:49:45

**TEST COMMENT:** 30 IF - Weak surface blow started @ 5 mins  
30 ISI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.56	89.37	Initial Hydro-static
1	11.91	89.08	Open To Flow (1)
31	19.02	89.66	Shut-In(1)
61	1239.58	90.33	End Shut-In(1)
62	1808.07	90.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100%M	0.02

\* 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, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50622

**DST#: 4**

ATTN: Richard Bell

Test Start: 2013.03.31 @ 16:13:00

## Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 49.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3618.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	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			3603.00	
Hydraulic tool	5.00			3608.00	
Packer	5.00			3613.00	20.00 Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Recorder	0.00	6719	Inside	3619.00	
Recorder	0.00	8320	Outside	3619.00	
Perforations	16.00			3635.00	
Bullnose	3.00			3638.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50622

**DST#: 4**

ATTN: Richard Bell

Test Start: 2013.03.31 @ 16:13:00

## 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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

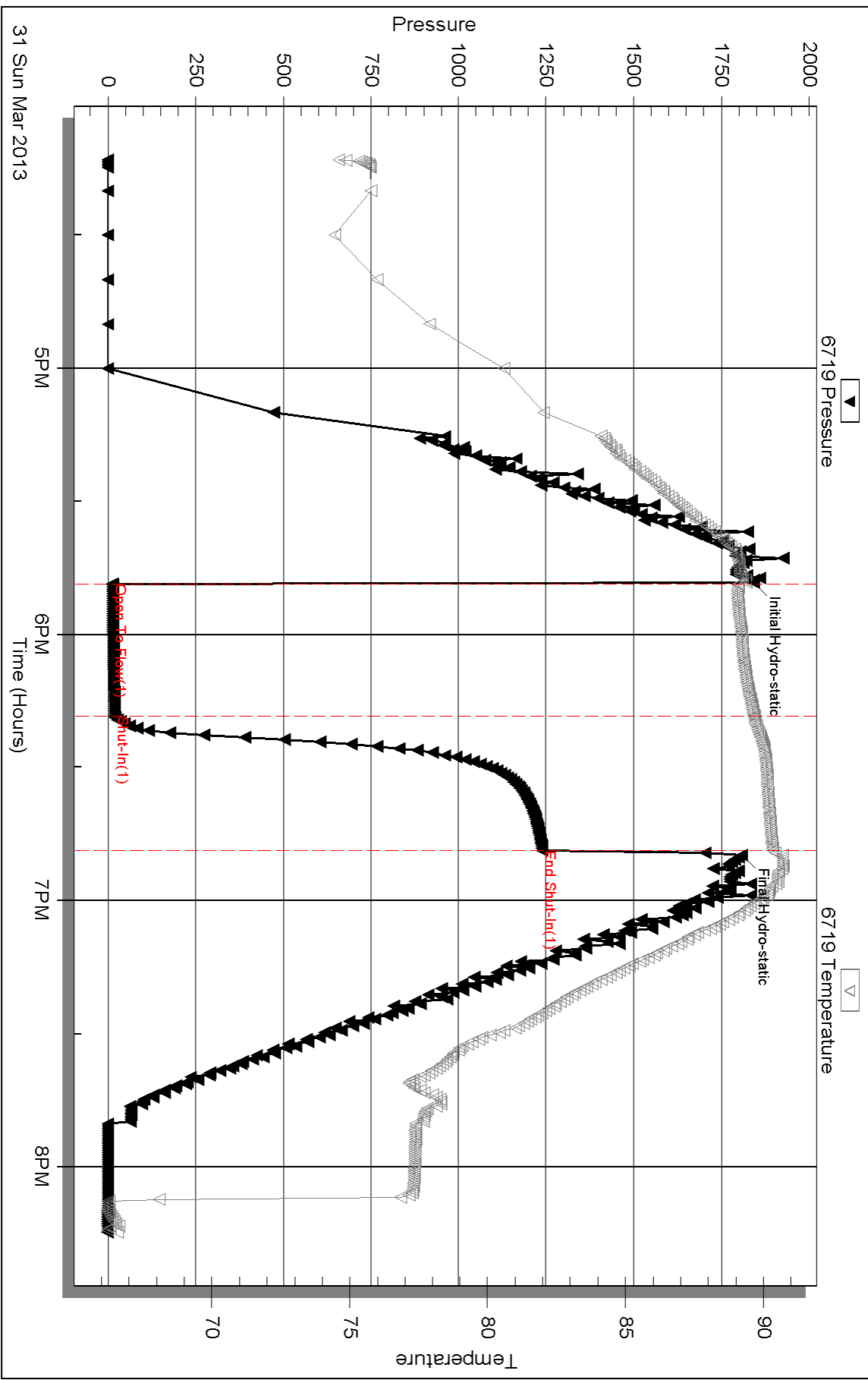
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

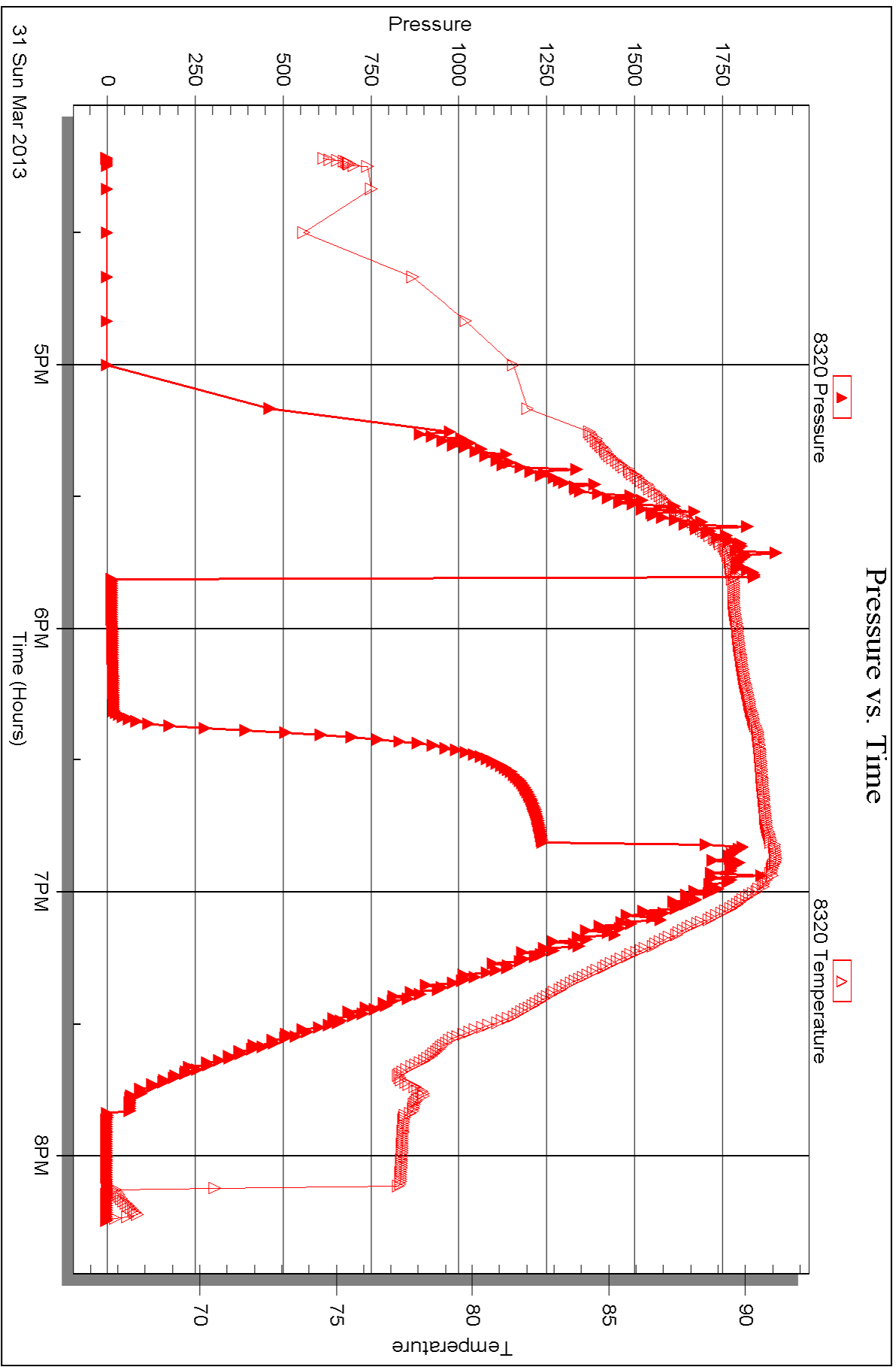


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #2-27**

Start Date: 2013.04.01 @ 07:53:00

End Date: 2013.04.01 @ 12:07:45

Job Ticket #: 50623                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:50:11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

ATTN: Richard Bell

Job Ticket: 50623

**DST#: 5**

Test Start: 2013.04.01 @ 07:53:00

## GENERAL INFORMATION:

Formation: **LKC" J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:48:00

Time Test Ended: 12:07:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

**Interval: 3683.00 ft (KB) To 3715.00 ft (KB) (TVD)**

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3715.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 13.51 psig @ 3684.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.01

End Date:

2013.04.01

Last Calib.:

2013.04.01

Start Time: 07:53:05

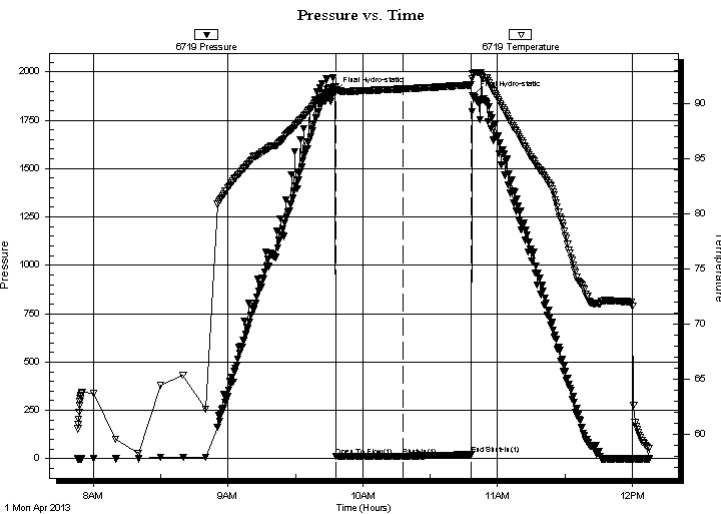
End Time:

12:07:45

Time On Btm:

Time Off Btm: 2013.04.01 @ 09:47:45

**TEST COMMENT:** 30 IF - Weak surface blow built to 1/16" started dieing back @ 14 mins died back to surface blow  
30 ISI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.89	91.56	Final Hydro-static
1	12.97	91.25	Open To Flow (1)
31	13.51	91.34	Shut-In(1)
61	20.98	91.70	End Shut-In(1)
62	1876.04	92.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /oil spots - 100%M	0.02

\* 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, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50623

**DST#: 5**

ATTN: Richard Bell

Test Start: 2013.04.01 @ 07:53:00

## Tool Information

Drill Pipe:	Length: 3563.00 ft	Diameter: 3.80 inches	Volume: 49.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 50.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3683.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	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			3668.00	
Hydraulic tool	5.00			3673.00	
Packer	5.00			3678.00	20.00 Bottom Of Top Packer
Packer	5.00			3683.00	
Stubb	1.00			3684.00	
Recorder	0.00	6719	Inside	3684.00	
Recorder	0.00	8320	Outside	3684.00	
Perforations	28.00			3712.00	
Bullnose	3.00			3715.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 50623

**DST#: 5**

ATTN: Richard Bell

Test Start: 2013.04.01 @ 07:53:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /oil spots - 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

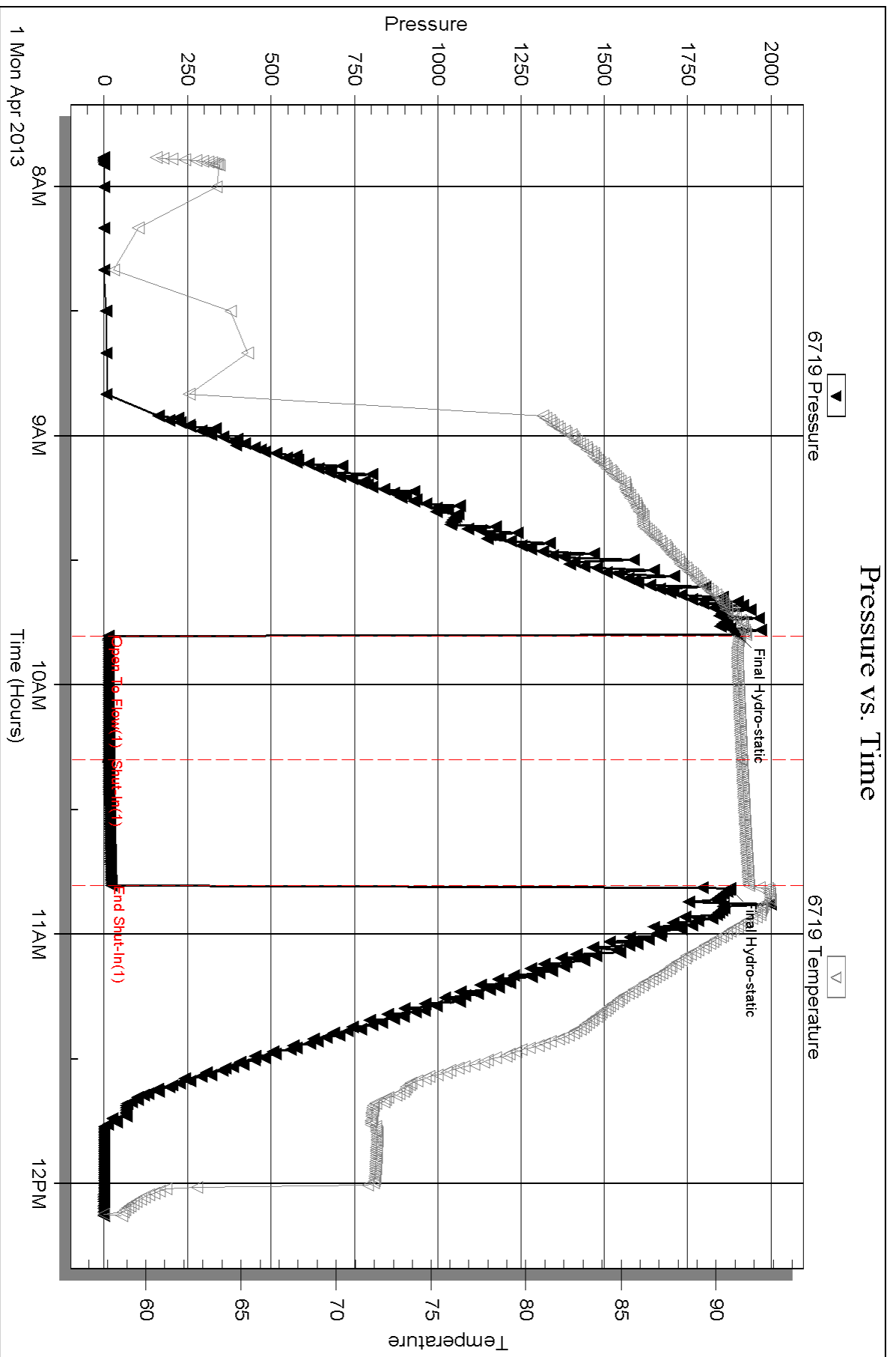
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

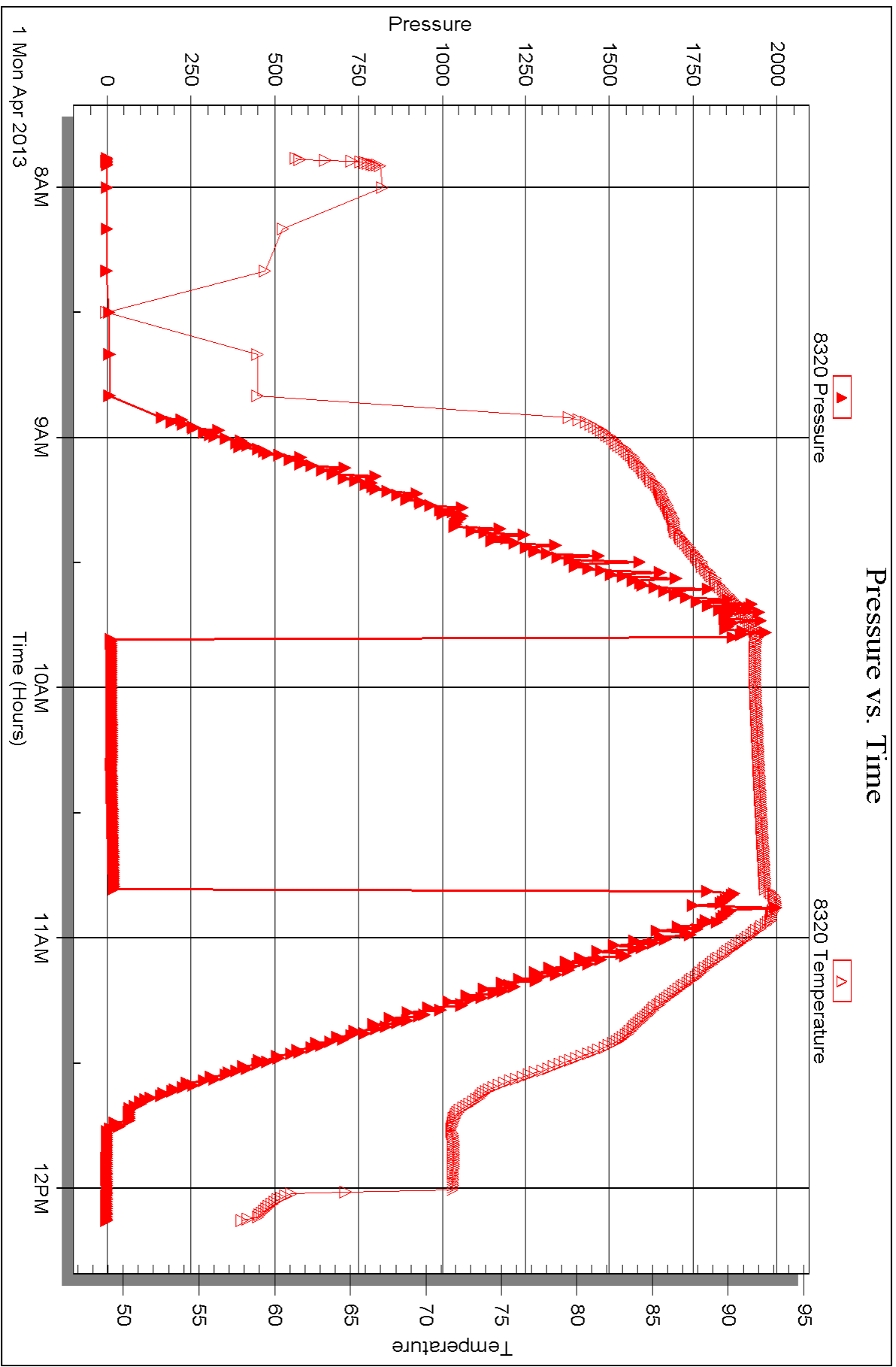


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #2-27**

Start Date: 2013.04.01 @ 18:53:00

End Date: 2013.04.02 @ 01:37:30

Job Ticket #: 51156                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:39:57

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 6

LKC "K"

2013.04.01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton, KS**

ATTN: Richard Bell

Job Ticket: 51156

**DST#: 6**

Test Start: 2013.04.01 @ 18:53:00

## GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:45

Time Test Ended: 01:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

**Interval: 3713.00 ft (KB) To 3736.00 ft (KB) (TVD)**

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3736.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 131.56 psig @ 3714.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.01

End Date:

2013.04.02

Last Calib.:

2013.04.02

Start Time: 18:53:05

End Time:

01:37:29

Time On Btm:

2013.04.01 @ 20:22:30

Time Off Btm:

2013.04.01 @ 23:23:45

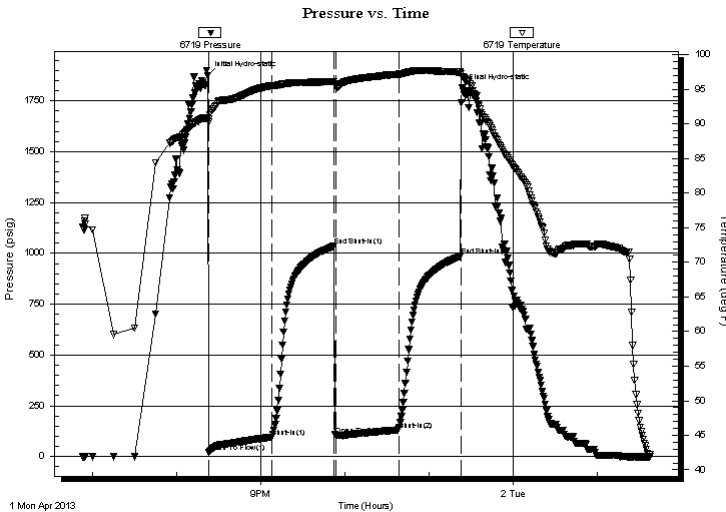
**TEST COMMENT:** 45 - IF: Blow built to BOB (11") in 17 1/2 min.

45 - IS: Bled off, Blow back built to 1"

45 - FF: Blow built to BOB in 21 min.

45 - FS: Bled off, Blow back built to 1 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.34	90.93	Initial Hydro-static
1	19.23	90.28	Open To Flow (1)
46	96.27	95.57	Shut-In(1)
90	1036.47	96.12	End Shut-In(1)
92	103.18	95.43	Open To Flow (2)
136	131.56	97.20	Shut-In(2)
180	985.68	97.51	End Shut-In(2)
182	1812.60	96.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SW/GOCM 52% <i>m</i> , 27% <i>o</i> , 13% <i>g</i> , 8% <i>w</i>	0.30
60.00	OCM 77% <i>m</i> , 18% <i>o</i> , 5% <i>g</i>	0.30
190.00	SMCGO 79% <i>o</i> , 14% <i>g</i> , 7% <i>m</i>	2.66
30.00	GO 67% <i>g</i> , 33% <i>o</i>	0.42
0.00	GIP = 155'	0.00

\* 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, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 51156

**DST#: 6**

ATTN: Richard Bell

Test Start: 2013.04.01 @ 18:53:00

## Tool Information

Drill Pipe:	Length: 3595.00 ft	Diameter: 3.80 inches	Volume: 50.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3713.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3698.00	
Hydraulic tool	5.00			3703.00	
Packer	5.00			3708.00	20.00 Bottom Of Top Packer
Packer	5.00			3713.00	
Stubb	1.00			3714.00	
Recorder	0.00	6719	Inside	3714.00	
Recorder	0.00	8320	Outside	3714.00	
Perforations	19.00			3733.00	
Bullnose	3.00			3736.00	23.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Esslinger Ranch Inc #2-27**

PO Box 428  
Logan, KS 67646

**27-3s-22w Norton,KS**

Job Ticket: 51156

**DST#: 6**

ATTN: Richard Bell

Test Start: 2013.04.01 @ 18:53:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SW/GOCM 52%m, 27%o, 13%g, 8%w	0.295
60.00	OCM 77%m, 18%o, 5%g	0.295
190.00	SMCGO 79%o, 14%g, 7%m	2.656
30.00	GO 67%g, 33%o	0.421
0.00	GIP = 155'	0.000

Total Length: 340.00 ft      Total Volume: 3.667 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

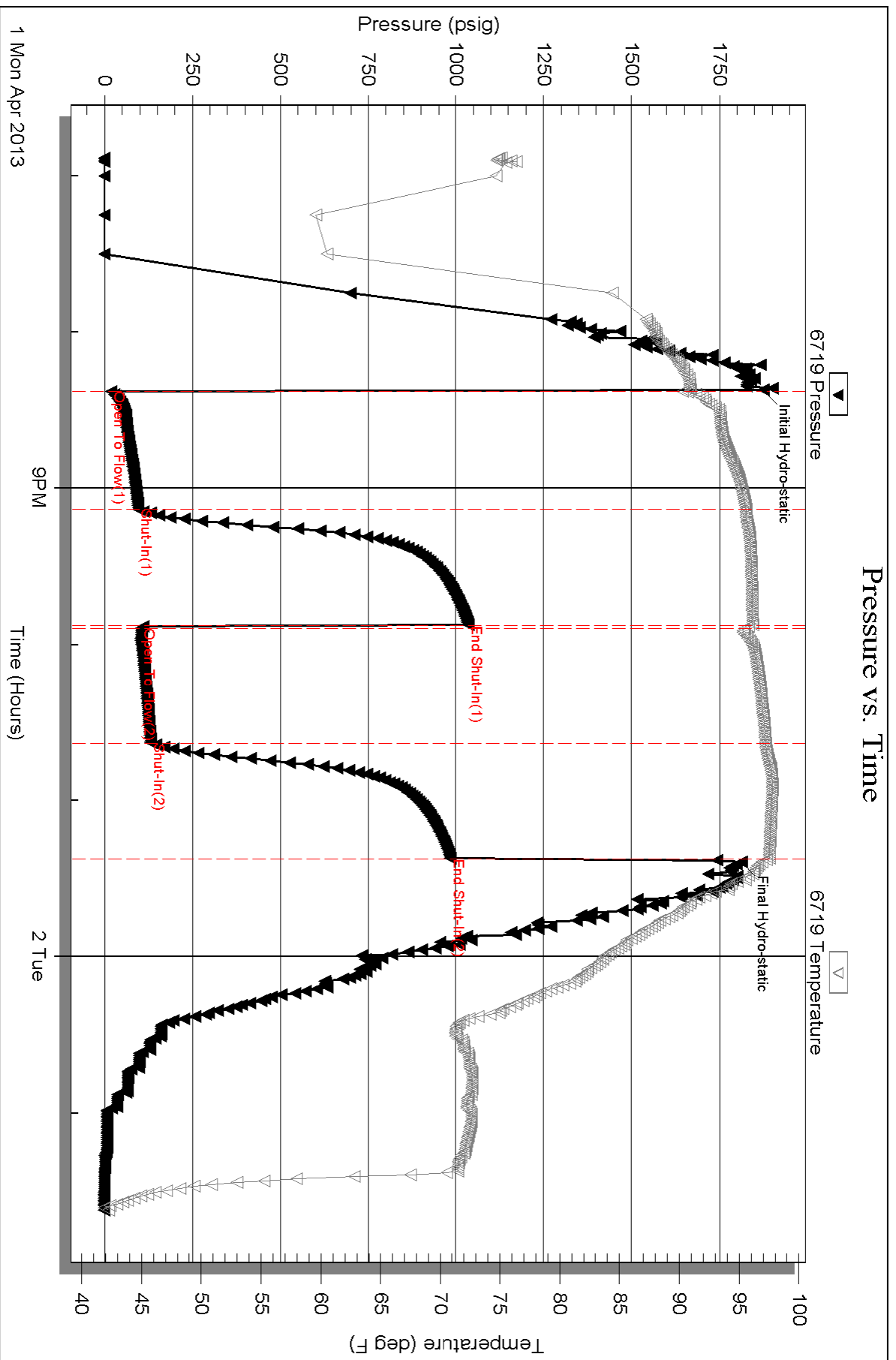
Laboratory Location:

Recovery Comments: Gravity = 29.6 api @ 44 deg F

Corrected Gravity = 31.2 api



### Pressure vs. Time

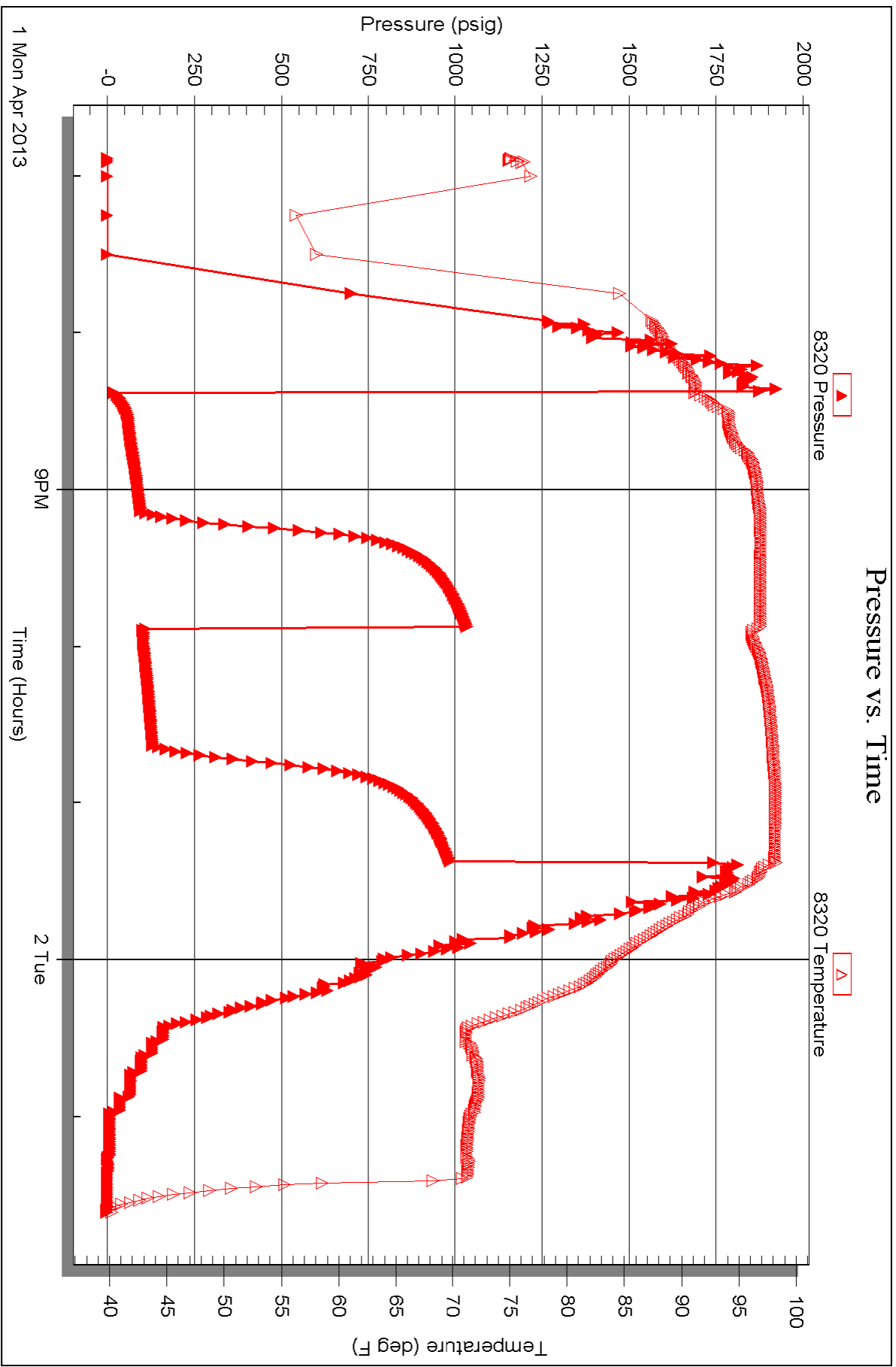


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton KS

DST Test Number: 6





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50619

Well Name & No. Esslinger Ranch Inc #2-27 Test No. 1 Date 3/30/13  
 Company Baird Oil Company, LLC Elevation ~~2320~~ 2328' KB 2328' GL  
 Address P.O. Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3552 - 3572 Zone Tested LKC "A"  
 Anchor Length 20' Drill Pipe Run 3439' Mud Wt. 9.0  
 Top Packer Depth 3547 Drill Collars Run 121' Vis 53  
 Bottom Packer Depth 3552 Wt. Pipe Run 0' WL 6.8  
 Total Depth 3572 Chlorides 1200 ppm System LCM 1  
 Blow Description IF - Surface blow  
ISI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>Mud</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 920 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1785  Test 1150 T-On Location 04:30  
 (B) First Initial Flow 10  Jars — T-Started 05:36  
 (C) First Final Flow 21  Safety Joint — T-Open 07:23  
 (D) Initial Shut-In 1203  Circ Sub NC T-Pulled 08:23  
 (E) Second Initial Flow ⊙  Hourly Standby — T-Out 09:43  
 (F) Second Final Flow —  Mileage 92 RT 142.60 Comments —  
 (G) Final Shut-In —  Sampler —  
 (H) Final Hydrostatic 1745  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Initial Open 30  Extra Packer —  Extra Copies —  
 Initial Shut-In 30  Extra Recorder — Sub Total 0  
 Final Flow —  Day Standby — Total 1292.60  
 Final Shut-In —  Accessibility — MP/DST Disc't —  
 Sub Total 1292.60

Approved By \_\_\_\_\_ Our Representative Richard Bell

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50620

Well Name & No. Esslinger Ranch Tract #2-27 Test No. 2 Date 3/30/13  
 Company Baird Oil Company, LLC Elevation 2336' KB 2328' GL  
 Address P.O. Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Newton State KS

Interval Tested 3576 - 3600 Zone Tested LKC "C"  
 Anchor Length 241 Drill Pipe Run 3440' Mud Wt. 9.0  
 Top Packer Depth 3571 Drill Collars Run 121' Vis 53  
 Bottom Packer Depth 3576 Wt. Pipe Run 0' WL 6.8  
 Total Depth 3600 Chlorides 1200 ppm System LCM 1

Blow Description IF - Surface blow built to 3"  
IST - No return  
FF - Surface blow started @ 9mins built to 1 1/2"  
FSE - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/oil spots</u>		<u>4</u>	<u>100</u>	
<u>60</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>60</u>	<u>WCM</u>		<u>45</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>125'</u>	BHT <u>94°</u>	Gravity <u>—</u>	API RW <u>1.552 @ 62° F</u>	Chlorides <u>13,000</u> ppm

(A) Initial Hydrostatic 1801  Test 1150 T-On Location 15:00  
 (B) First Initial Flow 12  Jars NC T-Started 15:26  
 (C) First Final Flow 45  Safety Joint T-Open 16:52  
 (D) Initial Shut-In 1192  Circ Sub NC T-Pulled 19:52  
 (E) Second Initial Flow 48  Hourly Standby T-Out 21:48  
 (F) Second Final Flow 70  Mileage 92 RT 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1147  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1744  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1292.60  
 Sub Total 1292.60  
 Total 1292.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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. 50621

Well Name & No. Esslinger Ranch Inc. #2-27 Test No. 3 Date 3/31/13  
 Company Baird Oil Company, LLC Elevation 2336' KB 2328' GL  
 Address P.O. Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3597-3618 Zone Tested LKC "D"  
 Anchor Length 21' Drill Pipe Run 3469' Mud Wt. 9  
 Top Packer Depth 3592 Drill Collars Run 121' Vis 53  
 Bottom Packer Depth 3597 Wt. Pipe Run 0' WL 6.8  
 Total Depth 3618 Chlorides 1200 ppm System LCM 1  
 Blow Description IF - ~~2 1/4"~~ 1/4" blow built to 3"  
IST - No return  
FF - Surface blow started @ 12 mins built to 1"  
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
5	MCW		90	10	
60	MCW		80	20	

Rec Total 65' BHT 94° Gravity — API RW 328 @ 52 °F Chlorides 11,000 ppm  
 (A) Initial Hydrostatic 1829  Test 1150 T-On Location 03:45  
 (B) First Initial Flow 14  Jars \_\_\_\_\_ T-Started 04:15  
 (C) First Final Flow 39  Safety Joint \_\_\_\_\_ T-Open 05:49  
 (D) Initial Shut-In 1159  Circ Sub NC T-Pulled 08:49  
 (E) Second Initial Flow 42  Hourly Standby \_\_\_\_\_ T-Out 10:17  
 (F) Second Final Flow 63  Mileage 92 RT 142.60 Comments 496' G.I.P  
 (G) Final Shut-In 1112  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1815  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Open 45  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1292.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1292.60

Approved By \_\_\_\_\_ Our Representative Ryan Mills

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. 50622

Well Name & No. Esslinger Ranch Inc. #2-27 Test No. 4 Date 3/31/13  
 Company Baird Oil Company, LLC Elevation 2336' KB 2328' GL  
 Address P.O. Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig OWN #12  
 Location: Sec. 27 Twp. 3S Rge. 22W Co. Norton State KS

Interval Tested 3618-3638 Zone Tested LKC "F"  
 Anchor Length 20' Drill Pipe Run 3502' Mud Wt. 9.2  
 Top Packer Depth 3613 Drill Collars Run 121' Vis 55  
 Bottom Packer Depth 3618 Wt. Pipe Run 0' WL 7.2  
 Total Depth 3638 Chlorides 1900 ppm System LCM .5  
 Blow Description IF - Weak surface blow started @ 5 mins  
ISI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud</u>			<u>10%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 90° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1842  Test 1150 T-On Location 16:00  
 (B) First Initial Flow 12  Jars \_\_\_\_\_ T-Started 16:13  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 17:49  
 (D) Initial Shut-In 1240  Circ Sub NC T-Pulled 18:49  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 20:15  
 (F) Second Final Flow \_\_\_\_\_  Mileage 92 RT 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1808  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1292.60  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1292.60

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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. 50623

Well Name & No. Esslinger Ranch # 2-27 Test No. 5 Date 4/1/13  
 Company Baird Oil Company, LLC Elevation 2336 KB 2328 GL  
 Address P.O. Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW # 12  
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3683-3715 Zone Tested LKC "J"  
 Anchor Length 32' Drill Pipe Run 3563' Mud Wt. 9.2  
 Top Packer Depth 3678 Drill Collars Run 121' Vis 55  
 Bottom Packer Depth 3683 Wt. Pipe Run 0' WL 7.2  
 Total Depth 3715 Chlorides 1900 ppm System LCM ~~0.5~~ .5  
 Blow Description IF - Weak surface blow built to 1/16" started dying back @ 14 mins died back to surface blow  
ISI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 92° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1900  Test 1150 T-On Location 07:00:30  
 (B) First Initial Flow 13  Jars — T-Started 07:53  
 (C) First Final Flow 14  Safety Joint — T-Open 09:48  
 (D) Initial Shut-In 21  Circ Sub NC T-Pulled 10:48  
 (E) Second Initial Flow —  Hourly Standby — T-Out 12:07  
 (F) Second Final Flow —  Mileage 92 KT 142.60 Comments —  
 (G) Final Shut-In —  Sampler —  
 (H) Final Hydrostatic 1876  Straddle —  
 Shale Packer —  
 Ruined Shale Packer —  
 Ruined Packer —  
 Extra Packer —  
 Extra Copies —  
 Extra Recorder —  
 Day Standby —  
 Accessibility —  
 Sub Total 1292.60

Initial Open 30  
 Initial Shut-In 30  
 Final Flow —  
 Final Shut-In —  
 Sub Total 0  
 Total 1292.60  
 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative Ryan Z. Nichols

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51156

4/10

Well Name & No. Esslinger Ranch Inc #2-27 Test No. 6 Date 4-1-13  
 Company Baird Oil Co. LLC Elevation 2328 KB 2320 GL  
 Address PO Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 27 Twp. 3s Rge. 22w Co. Norton State KS

Interval Tested 3713 - 3736 Zone Tested LKC "K"  
 Anchor Length 23 Drill Pipe Run 3595 Mud Wt. 9.3  
 Top Packer Depth 3708 Drill Collars Run 120 Vis 50  
 Bottom Packer Depth 3713 Wt. Pipe Run - WL 7.2  
 Total Depth 3736 Chlorides 1900 ppm System LCM 1/2

Blow Description IF: Blow built to BOB (11") in 17 1/2 min.  
ISI: Bled off, Blowback built to 1"  
FF: Blow built to BOB in 21 min.  
FSI: Bled off, Blowback built to 1 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>60</u>	<u>67</u>	<u>33</u>	<u>-</u>	<u>-</u>
<u>190</u>	<u>SMC/60</u>	<u>14</u>	<u>79</u>	<u>-</u>	<u>7</u>
<u>60</u>	<u>OCM</u>	<u>5</u>	<u>18</u>	<u>-</u>	<u>77</u>
<u>60</u>	<u>SW/60cm</u>	<u>13</u>	<u>27</u>	<u>8</u>	<u>52</u>
<u>60</u>	<u>GIP = 155'</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Rec Total 340 BHT 98 Gravity 31.2 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1875  Test ★ 1150 T-On Location 18:35 4/1/13  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 18:53  
 (C) First Final Flow 96  Safety Joint \_\_\_\_\_ T-Open 20:22  
 (D) Initial Shut-In 1036  Circ Sub ★NA T-Pulled 23:22  
 (E) Second Initial Flow 103  Hourly Standby \_\_\_\_\_ T-Out 1:30 4/2/13

(F) Second Final Flow 132  Mileage 94 RT 142.60  
 (G) Final Shut-In 986  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1813  Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 45  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45 Sub Total 0  
 Final Flow 45 Total 1292.60  
 Final Shut-In 45  Day Standby \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 1292.60

Approved By Richard Bell

Our Representative James Winkler

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