

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

Po Box 428
Logan KS 67646-0428

ATTN: Jim R Baird

4-4s-21w Norton KS

Anna #1-4

Start Date: 2011.04.04 @ 21:05:18

End Date: 2011.04.05 @ 01:29:18

Job Ticket #: 042604 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company,LLC

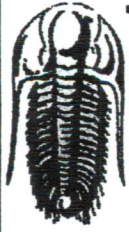
Anna #1-4

4-4s-21w Norton KS

DST # 1

LKC-A

2011.04.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Po Box 428
Logan KS 67646-0428

ATTN: Jim R Baird

Anna #1-4

4-4s-21w Norton KS

Job Ticket: 042604 DST#: 1

Test Start: 2011.04.04 @ 21:05:18

GENERAL INFORMATION:

Formation: LKC-A
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:47:03
Time Test Ended: 01:29:18

Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44

Interval: 3467.00 ft (KB) To 3490.00 ft (KB) (TVD)
Total Depth: 3490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2232.00 ft (KB)
2227.00 ft (CF)
KB to GR/CF: 5.00 ft

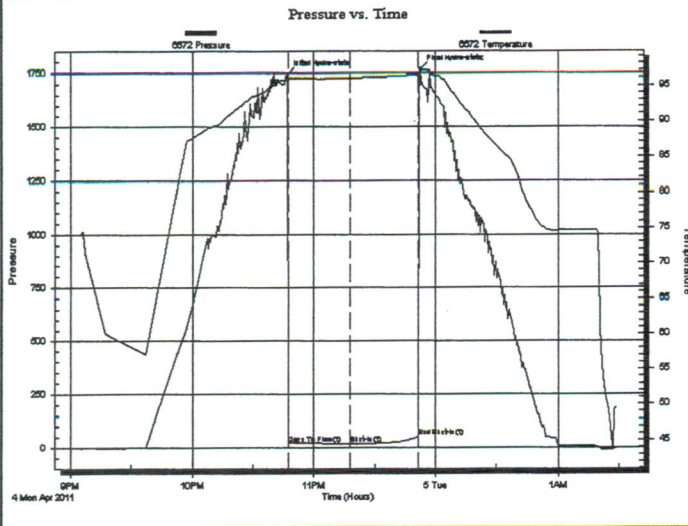
Serial #: 6672

Inside

Press@RunDepth: 20.05 psig @ 3468.00 ft (KB)
Start Date: 2011.04.04 End Date:
Start Time: 21:05:19 End Time:

Capacity: 8000.00 psig
Last Calib.: 2011.04.05
Time On Btm: 2011.04.04 @ 22:46:48
Time Off Btm: 2011.04.04 @ 23:52:33

TEST COMMENT: IFP-Weak blow built to 1/4 in
ISI-Dead no blow back



PRESSURE SUMMARY

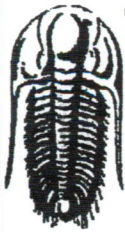
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.96	96.10	Initial Hydro-static
1	20.26	95.48	Open To Flow (1)
31	20.05	95.93	Shut-In(1)
65	53.26	96.34	End Shut-In(1)
66	1764.52	96.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbi)
2.00	Mud with a scum of oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042604

DST#: 1

ATTN: Jim R Baird

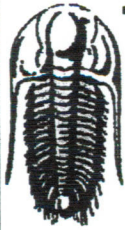
Test Start: 2011.04.04 @ 21:05:18

Tool Information

Drill Pipe:	Length: 3354.00 ft	Diameter: 3.80 inches	Volume: 47.05 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 47.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3467.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3448.00	
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Packer	4.00			3462.00	20.00 Bottom Of Top Packer
Packer	5.00			3467.00	
Stubb	1.00			3468.00	
Recorder	0.00	6672	Inside	3468.00	
Recorder	0.00	8321	Outside	3468.00	
Perforations	19.00			3487.00	
Bullnose	3.00			3490.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

ATTN: Jim R Baird

Job Ticket: 042604 DST#: 1

Test Start: 2011.04.04 @ 21:05:18

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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	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 bbl
2.00	Mud with a scum of oil	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6672

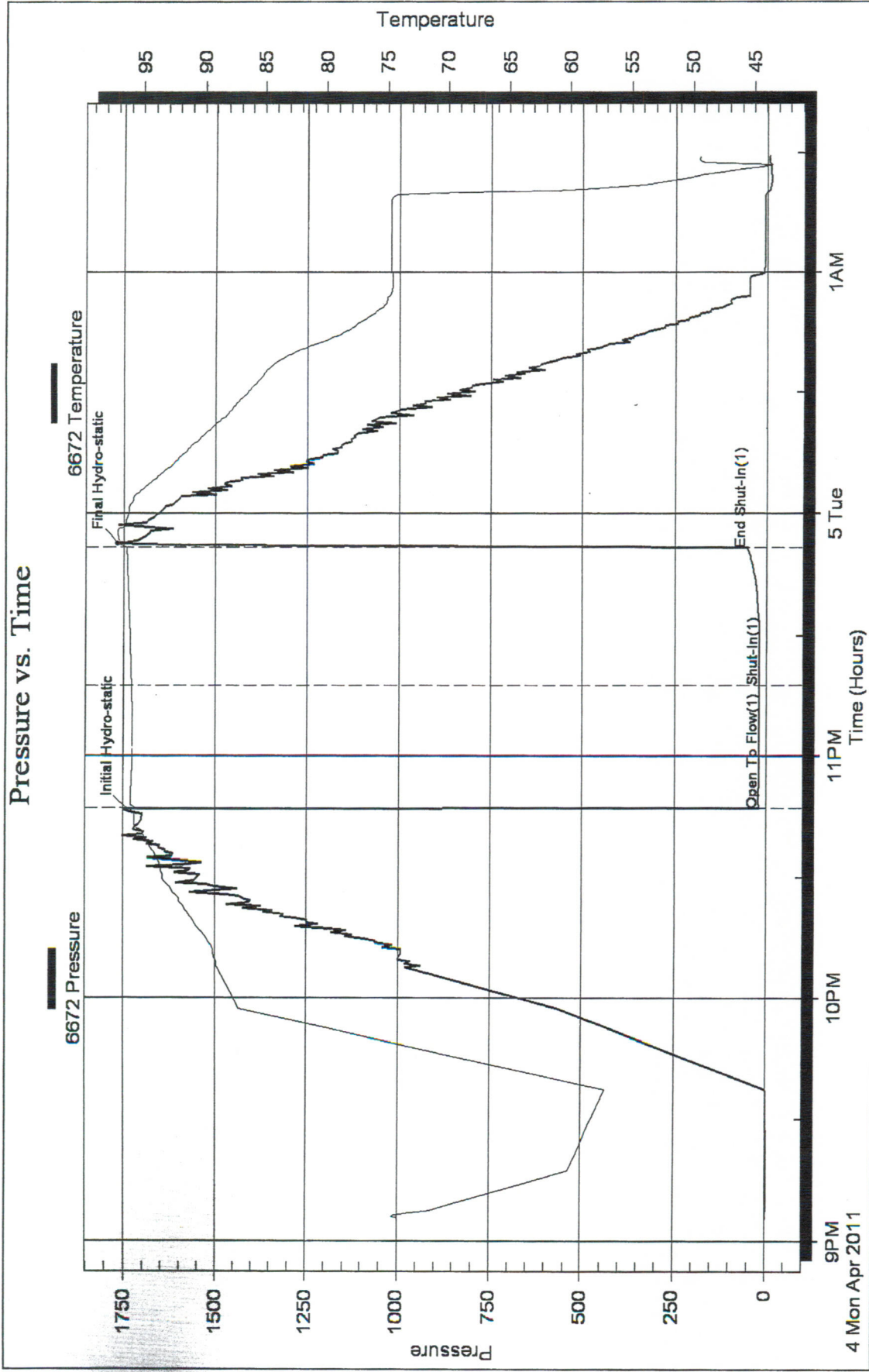
Inside

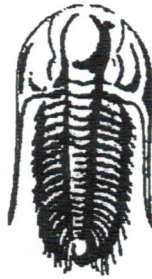
Baird Oil Company, LLC

4-4s-21w Norton KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Po Box 428
Logan KS 67646-0428

ATTN: Jim R Baird

4-4s-21w Norton KS

Anna #1-4

Start Date: 2011.04.05 @ 09:17:04

End Date: 2011.04.05 @ 12:56:04

Job Ticket #: 042605 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company, LLC

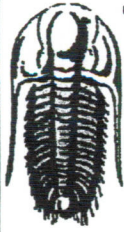
Anna #1-4

4-4s-21w Norton KS

DST # 2

LKC-D

2011.04.05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042605 DST#: 2

ATTN: Jim R Baird

Test Start: 2011.04.05 @ 09:17:04

GENERAL INFORMATION:

Formation: **LKC-D**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 10:39:04
 Time Test Ended: 12:56:04

Test Type: **Conventional Bottom Hole**
 Tester: **Jeff Brown**
 Unit No: **44**

Interval: **3515.00 ft (KB) To 3532.00 ft (KB) (TVD)**
 Total Depth: **3532.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2232.00 ft (KB)**
2227.00 ft (CF)
 KB to GR/CF: **5.00 ft**

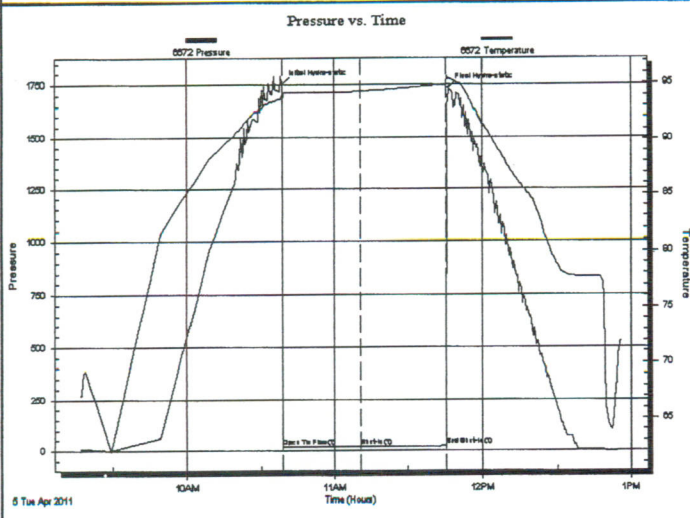
Serial #: 6672

Inside

Press@RunDepth: **19.15 psig @ 3516.00 ft (KB)**
 Start Date: **2011.04.05** End Date: **2011.04.05**
 Start Time: **09:17:05** End Time: **12:56:04**

Capacity: **8000.00 psig**
 Last Calib.: **2011.04.05**
 Time On Btm: **2011.04.05 @ 10:38:49**
 Time Off Btm: **2011.04.05 @ 11:46:49**

TEST COMMENT: IFP-Weak blow built to 1/8 in died back to a weak surface blow
 IS-Dead no blow back



PRESSURE SUMMARY

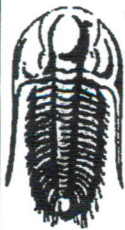
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.06	94.09	Initial Hydro-static
1	18.88	93.33	Open To Flow (1)
32	19.15	94.31	Shut-In(1)
67	22.84	94.89	End Shut-In(1)
68	1732.78	95.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud with a scum of oil	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042605 DST#: 2

ATTN: Jim R Baird

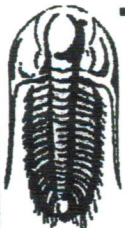
Test Start: 2011.04.05 @ 09:17:04

Tool Information

Drill Pipe:	Length: 3385.00 ft	Diameter: 3.80 inches	Volume: 47.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 48.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3515.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3496.00	
Shut In Tool	5.00			3501.00	
Hydraulic tool	5.00			3506.00	
Packer	4.00			3510.00	20.00 Bottom Of Top Packer
Packer	5.00			3515.00	
Stubb	1.00			3516.00	
Recorder	0.00	6672	Inside	3516.00	
Recorder	0.00	8321	Outside	3516.00	
Perforations	13.00			3529.00	
Bullnose	3.00			3532.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042605 DST#: 2

ATTN: Jim R Baird

Test Start: 2011.04.05 @ 09:17:04

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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	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 bbl
1.00	Mud with a scum of oil	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6672

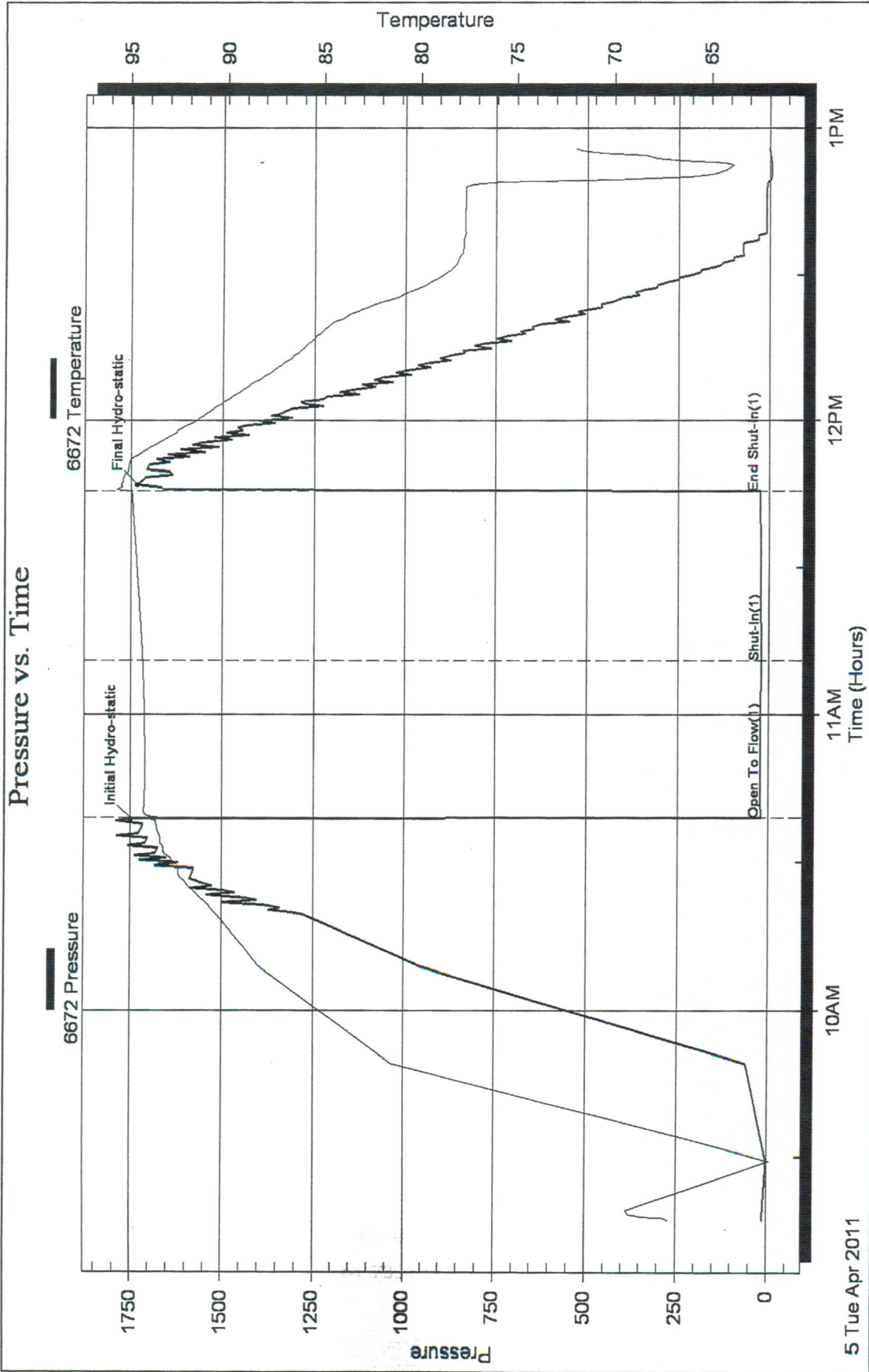
Inside

Baird Oil Company, LLC

4-4s-21w Norton KS

DST Test Number: 2

Pressure vs. Time



5 Tue Apr 2011



DRILL STEM TEST REPORT

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

Po Box 428
Logan KS 67646-0428

ATTN: Jim R Baird

4-4s-21w Norton KS

Anna #1-4

Start Date: 2011.04.05 @ 18:26:35

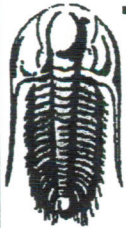
End Date: 2011.04.05 @ 22:53:50

Job Ticket #: 042606 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042606 DST#: 3

ATTN: Jim R Baird

Test Start: 2011.04.05 @ 18:26:35

GENERAL INFORMATION:

Formation: LKC-F
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:09:35
Time Test Ended: 22:53:50

Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44

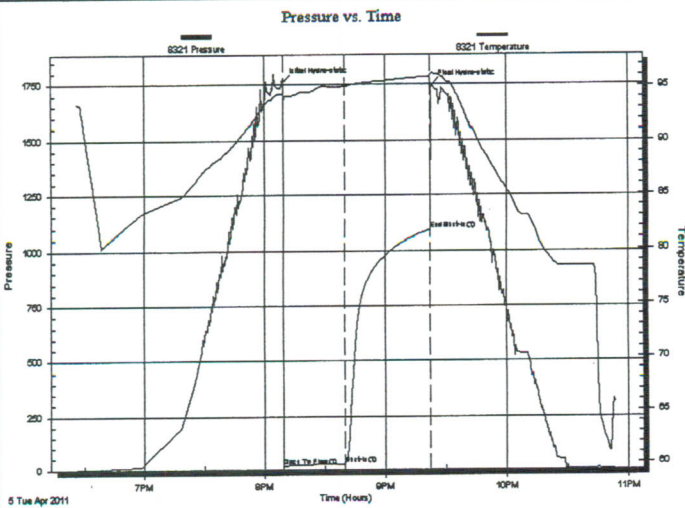
Interval: 3531.00 ft (KB) To 3555.00 ft (KB) (TVD)
Total Depth: 3555.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2232.00 ft (KB)
2227.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321 Outside
Press@RunDepth: 27.05 psig @ 3532.00 ft (KB)
Start Date: 2011.04.05 End Date: 2011.04.05
Start Time: 18:26:36 End Time: 22:53:50

Capacity: 8000.00 psig
Last Calib.: 2011.04.05
Time On Btm: 2011.04.05 @ 20:09:20
Time Off Btm: 2011.04.05 @ 21:22:50

TEST COMMENT: IFP-Weak blow built to 3/4 in
IS-Dead no blow back



PRESSURE SUMMARY

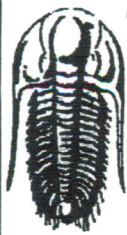
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.41	94.35	Initial Hydro-static
1	16.69	93.54	Open To Flow (1)
31	27.05	95.01	Shut-In(1)
73	1090.05	95.89	End Shut-In(1)
74	1748.91	96.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud with oil spots	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042606 DST#: 3

ATTN: Jim R Baird

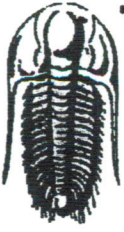
Test Start: 2011.04.05 @ 18:26:35

Tool Information

Drill Pipe:	Length: 3417.00 ft	Diameter: 3.80 inches	Volume: 47.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 48.53 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3531.00 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: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3512.00	
Shut In Tool	5.00			3517.00	
Hydraulic tool	5.00			3522.00	
Packer	4.00			3526.00	20.00 Bottom Of Top Packer
Packer	5.00			3531.00	
Stubb	1.00			3532.00	
Recorder	0.00	6672	Inside	3532.00	
Recorder	0.00	8321	Outside	3532.00	
Perforations	20.00			3552.00	
Bullnose	3.00			3555.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042606 DST#: 3

ATTN: Jim R Baird

Test Start: 2011.04.05 @ 18:26:35

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Mud with oil spots	0.030

Total Length: 6.00 ft Total Volume: 0.030 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

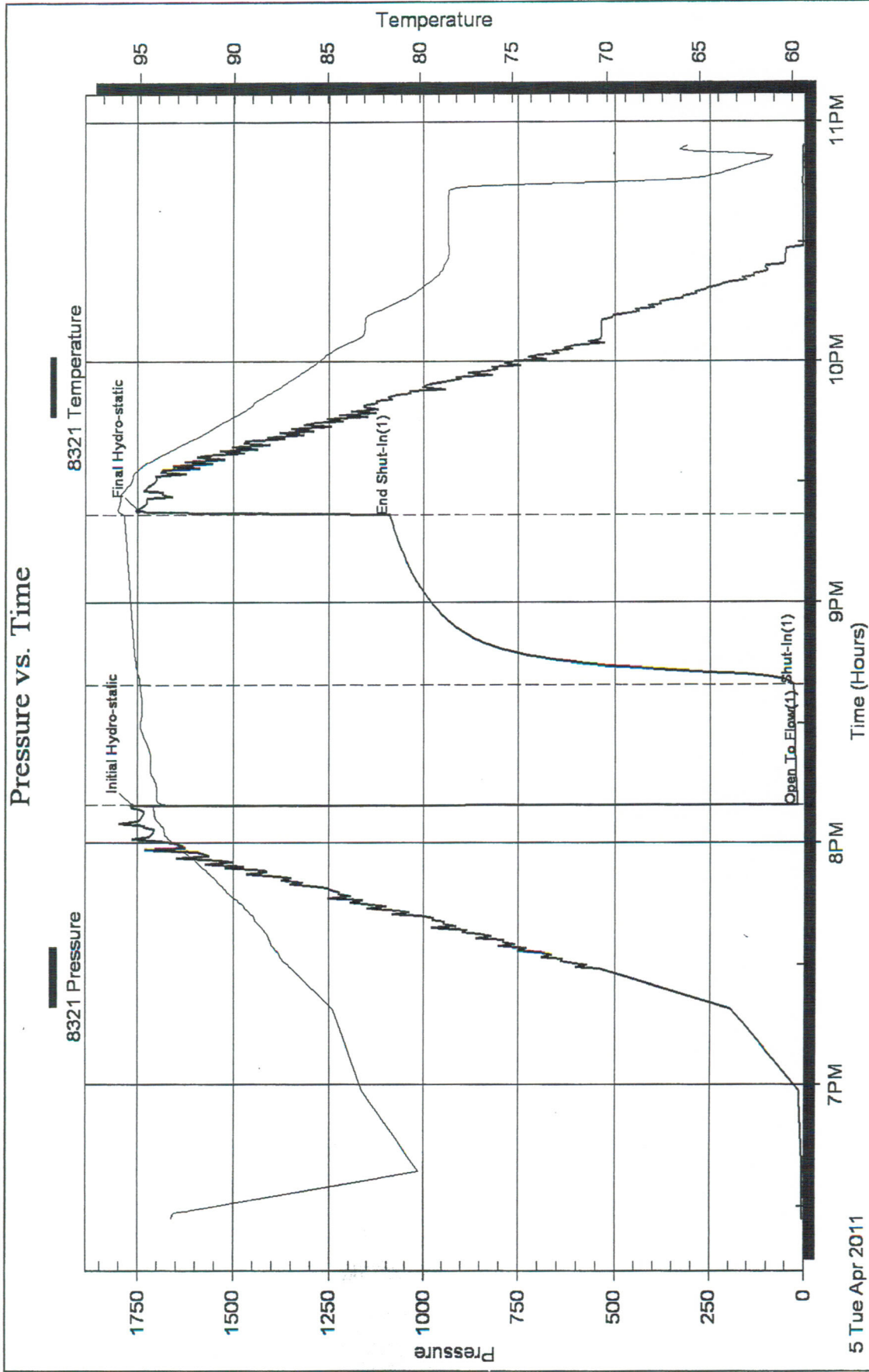
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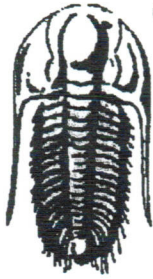
Outside Baird Oil Company, LLC

4-4s-21w Norton KS

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Po Box 428
Logan KS 67646-0428

ATTN: Jim R Baird

4-4s-21w Norton KS

Anna #1-4

Start Date: 2011.04.06 @ 11:08:39

End Date: 2011.04.06 @ 15:22:09

Job Ticket #: 042607 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company, LLC

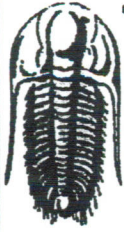
Anna #1-4

4-4s-21w Norton KS

DST # 4

LKC-J-K

2011.04.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042607

DST#: 4

ATTN: Jim R Baird

Test Start: 2011.04.06 @ 11:08:39

GENERAL INFORMATION:

Formation: LKC-J-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:37:39

Time Test Ended: 15:22:09

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: 3604.00 ft (KB) To 3654.00 ft (KB) (TVD)

Total Depth: 3654.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2232.00 ft (KB)

2227.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Outside

Press@RunDepth: 37.95 psig @ 3610.00 ft (KB)

Start Date: 2011.04.06

End Date:

2011.04.06

Start Time: 11:08:40

End Time:

15:22:09

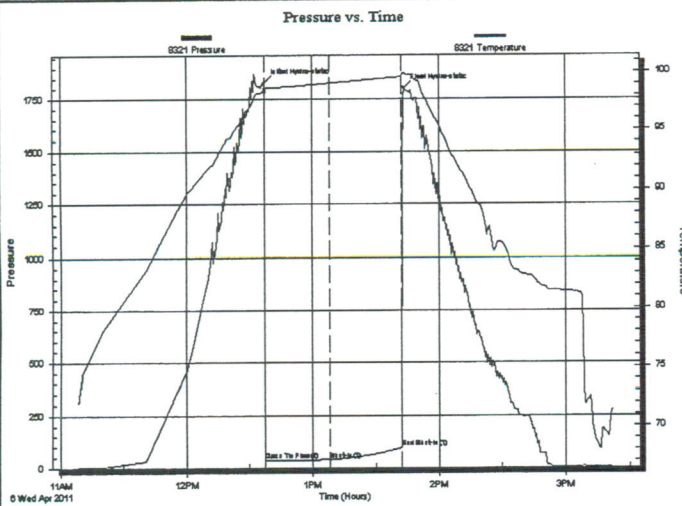
Capacity: 8000.00 psig

Last Calib.: 2011.04.06

Time On Btm: 2011.04.06 @ 12:37:24

Time Off Btm: 2011.04.06 @ 13:43:09

TEST COMMENT: IFP-Weak blow built to 1/8 in
ISI-Dead no blow back



PRESSURE SUMMARY

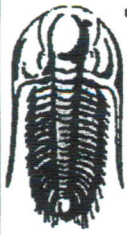
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1828.83	98.75	Initial Hydro-static
1	35.77	97.89	Open To Flow (1)
31	37.95	99.06	Shut-In(1)
65	97.84	99.57	End Shut-In(1)
66	1801.91	99.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCM 2%O98%M	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042607

DST#: 4

ATTN: Jim R Baird

Test Start: 2011.04.06 @ 11:08:39

Tool Information

Drill Pipe:	Length: 3479.00 ft	Diameter: 3.80 inches	Volume: 48.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 44000.00 lb
			Total Volume: 49.40 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3604.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3585.00	
Shut In Tool	5.00			3590.00	
Hydraulic tool	5.00			3595.00	
Packer	4.00			3599.00	20.00 Bottom Of Top Packer
Packer	5.00			3604.00	
Stubb	1.00			3605.00	
Perforations	4.00			3609.00	
Change Over Sub	1.00			3610.00	
Recorder	0.00	6672	Inside	3610.00	
Recorder	0.00	8321	Outside	3610.00	
Drill Pipe	30.00			3640.00	
Change Over Sub	1.00			3641.00	
Perforations	10.00			3651.00	
Bullnose	3.00			3654.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Anna #1-4

Po Box 428
Logan KS 67646-0428

4-4s-21w Norton KS

Job Ticket: 042607

DST#: 4

ATTN: Jim R Baird

Test Start: 2011.04.06 @ 11:08:39

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	SOCM 2%O98%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8321

Outside Baird Oil Company, LLC

4-4s-21w Norton KS

DST Test Number: 4

Pressure vs. Time

