

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Anna 1-3

Start Date: 2011.04.30 @ 21:35:16

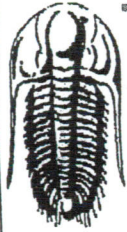
End Date: 2011.05.01 @ 04:20:16

Job Ticket #: 42824 DST #: 1

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

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42824

DST#: 1

ATTN: Richard Bell

Test Start: 2011.04.30 @ 21:35:16

GENERAL INFORMATION:

Formation: LKC "A"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:33:16
Time Test Ended: 04:20:16

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47

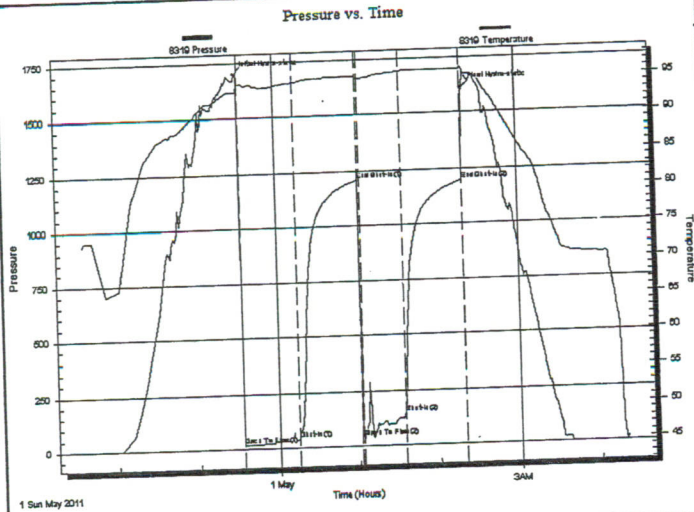
Interval: 3445.00 ft (KB) To 3466.00 ft (KB) (TVD)
Total Depth: 3446.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2217.00 ft (KB)
2212.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319 Inside
Press@RunDepth: 147.79 psig @ 3449.00 ft (KB)
Start Date: 2011.04.30 End Date: 2011.05.01
Start Time: 21:35:21 End Time: 04:20:15

Capacity: 8000.00 psig
Last Calib.: 2011.05.01
Time On Btm: 2011.04.30 @ 23:31:16
Time Off Btm: 2011.05.01 @ 02:21:16

TEST COMMENT: IF-1in blow died back to 3/4in blow
IS-No blow
FF-No blow
FSI-No blow



PRESSURE SUMMARY

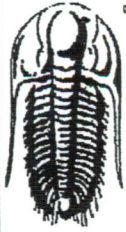
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.98	93.64	Initial Hydro-static
2	16.92	94.43	Open To Flow (1)
44	41.84	94.77	Shut-In(1)
91	1208.92	95.39	End Shut-In(1)
92	38.61	95.06	Open To Flow (2)
123	147.79	95.86	Shut-In(2)
169	1195.46	96.05	End Shut-In(2)
170	1610.10	96.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil	0.00
64.00	MCW 30%M 70%W	0.31

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42824

DST#: 1

ATTN: Richard Bell

Test Start: 2011.04.30 @ 21:35:16

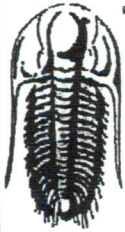
Tool Information

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3445.00 ft			Final 40000.00 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
Change Over Sub	1.00			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	4.00			3440.00	20.00 Bottom Of Top Packer
Packer	5.00			3445.00	
Stubb	1.00			3446.00	
Perforations	3.00			3449.00	
Recorder	0.00	8319	Inside	3449.00	
Recorder	0.00	6753	Outside	3449.00	
Perforations	14.00			3463.00	
Bullnose	3.00			3466.00	21.00 Bottom Packers & Anchor

Total Tool Length: 41.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

ATTN: Richard Bell

Job Ticket: 42824

DST#: 1

Test Start: 2011.04.30 @ 21:35:16

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:

65000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	Oil	0.005
64.00	MCW 30%M 70%W	0.315

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

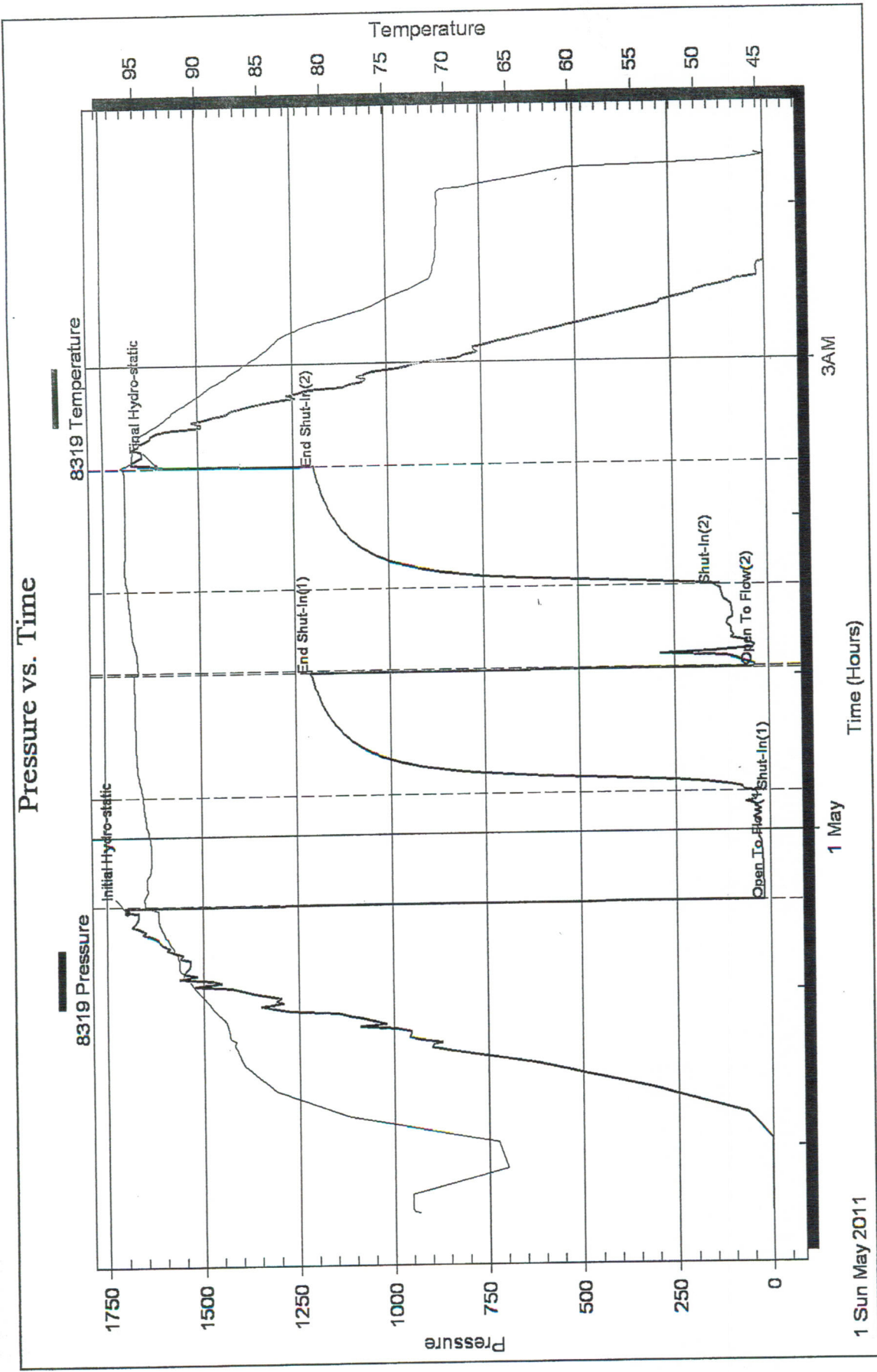
Serial #:

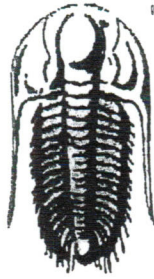
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Anna 1-3

Start Date: 2011.05.01 @ 10:05:01

End Date: 2011.05.01 @ 15:42:01

Job Ticket #: 42825 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company

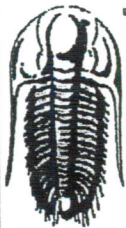
Anna 1-3

3-4s-21w Norton, KS

DST # 2

LKC-C"

2011.05.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42825 DST#: 2

ATTN: Richard Bell

Test Start: 2011.05.01 @ 10:05:01

GENERAL INFORMATION:

Formation: **LKC"C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:27:01
 Time Test Ended: 15:42:01

Test Type: Conventional Bottom Hole
 Tester: Brett Dickinson
 Unit No: 47

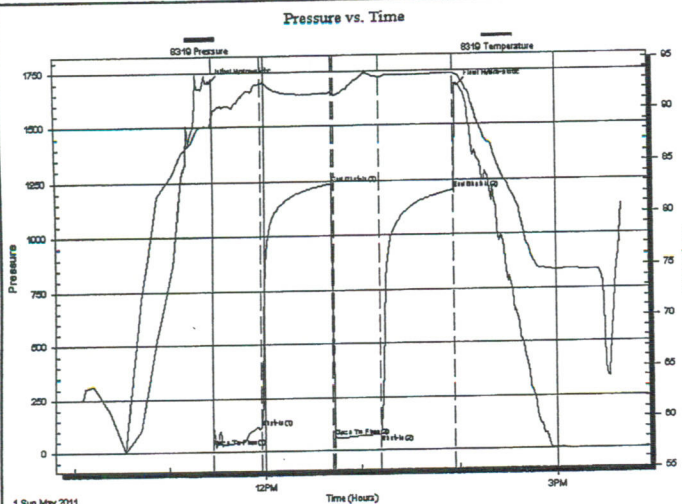
Interval: **3472.00 ft (KB) To 3491.00 ft (KB) (TVD)**
 Total Depth: **3491.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2217.00 ft (KB)**
2212.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8319 inside
 Press@RunDepth: **73.82 psig @ 3476.00 ft (KB)**
 Start Date: **2011.05.01** End Date:
 Start Time: **10:05:06** End Time:

Capacity: **8000.00 psig**
 Last Calib.: **2011.05.01**
 Time On Btm: **2011.05.01 @ 11:25:31**
 Time Off Btm: **2011.05.01 @ 14:00:01**

TEST COMMENT: IF-BOB in 19min
 IS-Weak surface blow
 FF-9.5in blow
 FSI-1/2in blow



PRESSURE SUMMARY

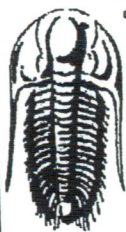
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.44	88.59	Initial Hydro-static
2	22.25	89.42	Open To Flow (1)
32	111.53	92.79	Shut-In(1)
77	1235.67	91.79	End Shut-In(1)
78	62.66	91.50	Open To Flow (2)
106	73.82	93.23	Shut-In(2)
152	1201.99	93.59	End Shut-In(2)
155	1682.05	93.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGOCM 5%G 35%O 60%M	0.15
155.00	SGO 10%G 90%O	1.32
0.00	180ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42825

DST#: 2

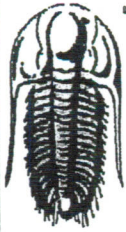
ATTN: Richard Bell

Test Start: 2011.05.01 @ 10:05:01

Tool Information

Drill Pipe:	Length: 3355.00 ft	Diameter: 3.80 inches	Volume: 47.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3472.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3453.00	
Shut In Tool	5.00			3458.00	
Hydraulic tool	5.00			3463.00	
Packer	4.00			3467.00	20.00 Bottom Of Top Packer
Packer	5.00			3472.00	
Stubb	1.00			3473.00	
Perforations	3.00			3476.00	
Recorder	0.00	8319	Inside	3476.00	
Recorder	0.00	6753	Outside	3476.00	
Perforations	12.00			3488.00	
Bullnose	3.00			3491.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42825 **DST#: 2**

ATTN: Richard Bell

Test Start: 2011.05.01 @ 10:05:01

Mud and Cushion Information

Mud Type: Gal Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.37 in*	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 700.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGOCM 5%G 35%O 60%M	0.148
155.00	SGO 10%G 90%O	1.318
0.00	180ft GIP	0.000

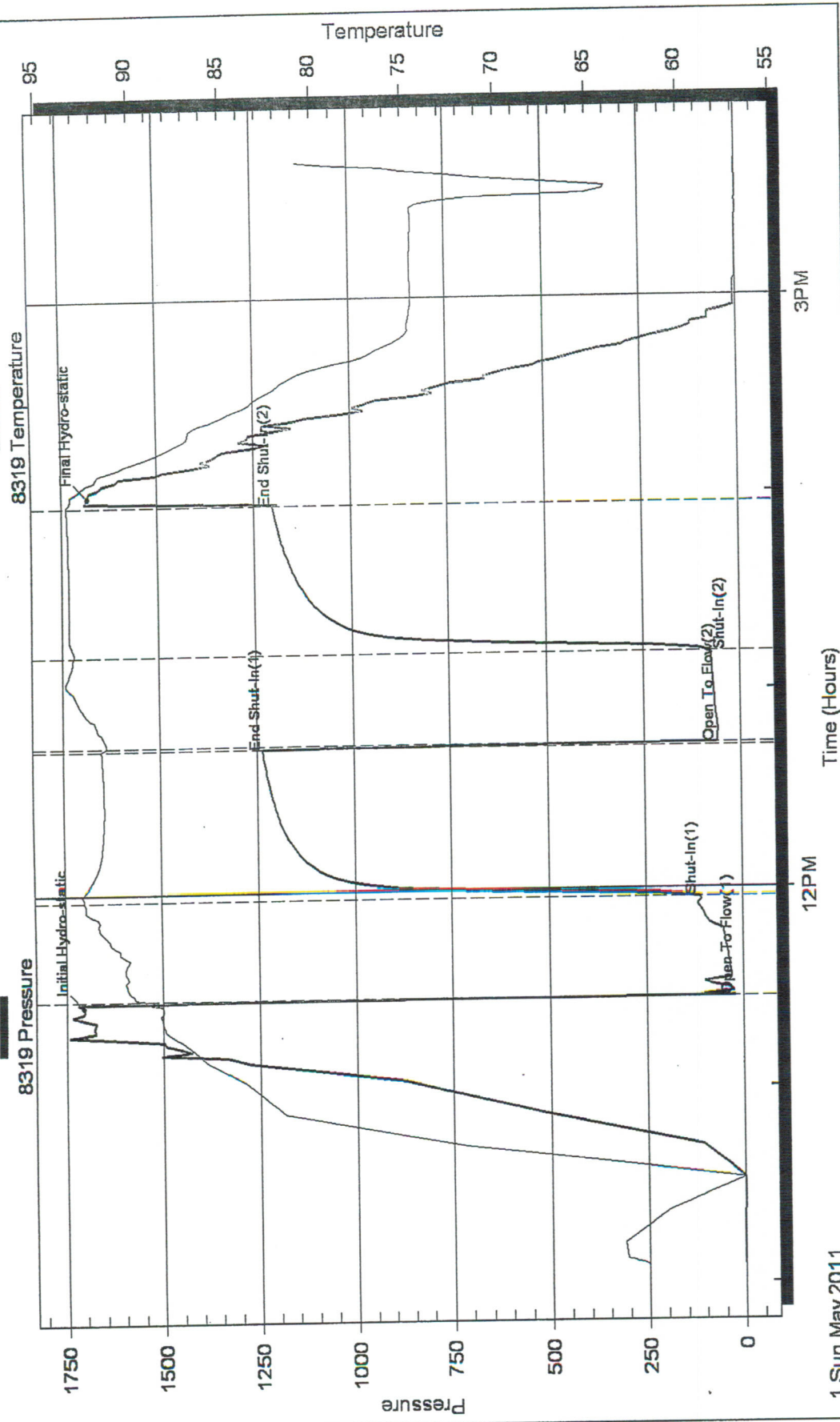
Total Length: 185.00 ft Total Volume: 1.466 bbl

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

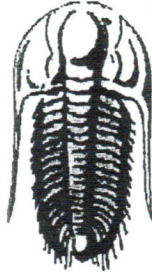
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



1 Sun May 2011



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Anna 1-3

Start Date: 2011.05.01 @ 21:15:52

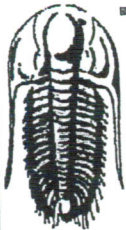
End Date: 2011.05.02 @ 03:31:22

Job Ticket #: 42726 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
PO Box 428
Logan, KS 67646
ATTN: Richard Bell

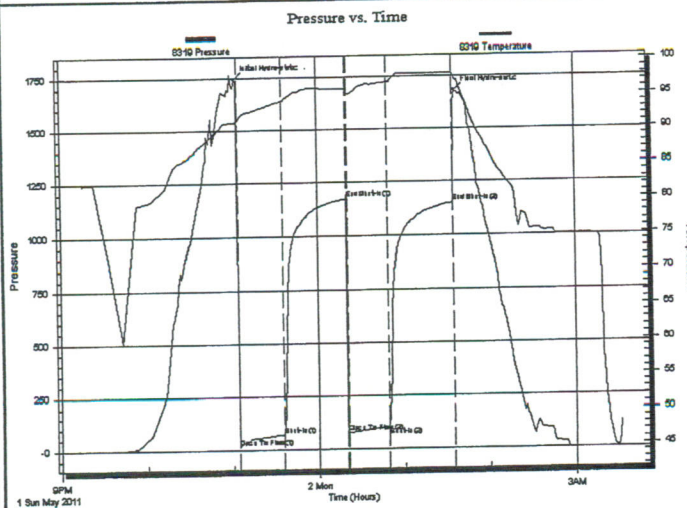
Anna 1-3
3-4s-21w Norton, KS
Job Ticket: 42726 DST#: 3
Test Start: 2011.05.01 @ 21:15:52

GENERAL INFORMATION:

Formation: **KC "D"**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 23:03:52
Time Test Ended: 03:31:22
Interval: **3489.00 ft (KB) To 3509.00 ft (KB) (TVD)**
Total Depth: **3509.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Brett Dickinson**
Unit No: **47**
Reference Elevations: **2217.00 ft (KB)**
2212.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8319 **Inside**
Press@RunDepth: **103.02 psig @ 3492.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.05.01** End Date: **2011.05.02** Last Calib.: **2011.05.02**
Start Time: **21:15:57** End Time: **03:31:21** Time On Btmr: **2011.05.01 @ 23:02:22**
Time Off Btmr: **2011.05.02 @ 01:36:22**

TEST COMMENT: IF-BOB in 16min
FSI-1in blow
FF-BOB in 17min
FSI-1.5in blow



PRESSURE SUMMARY

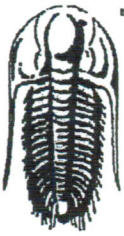
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.48	91.00	Initial Hydro-static
2	17.38	91.26	Open To Flow (1)
33	71.01	94.12	Shut-In(1)
78	1171.82	95.85	End Shut-In(1)
79	80.05	95.37	Open To Flow (2)
107	103.02	96.78	Shut-In(2)
152	1149.50	97.92	End Shut-In(2)
154	1683.08	97.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 10%G 40%M 50%O	0.30
180.00	SGO 10%G 90%O	1.94
0.00	300ft GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42726

DST#: 3

ATTN: Richard Bell

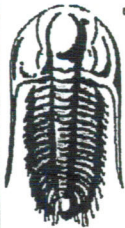
Test Start: 2011.05.01 @ 21:15:52

Tool Information

Drill Pipe:	Length: 3354.00 ft	Diameter: 3.80 inches	Volume: 47.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3489.00 ft			Final 43000.00 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
Change Over Sub	1.00			3470.00	
Shut In Tool	5.00			3475.00	
Hydraulic tool	5.00			3480.00	
Packer	4.00			3484.00	20.00 Bottom Of Top Packer
Packer	5.00			3489.00	
Stubb	1.00			3490.00	
Perforations	2.00			3492.00	
Recorder	0.00	8319	Inside	3492.00	
Recorder	0.00	6753	Outside	3492.00	
Perforations	14.00			3506.00	
Bullnose	3.00			3509.00	20.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42726

DST#: 3

ATTN: Richard Bell

Test Start: 2011.05.01 @ 21:15:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCO 10%G 40%M 50%O	0.295
180.00	SGO 10%G 90%O	1.942
0.00	300ft GIP	0.000

Total Length: 240.00 ft

Total Volume: 2.237 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

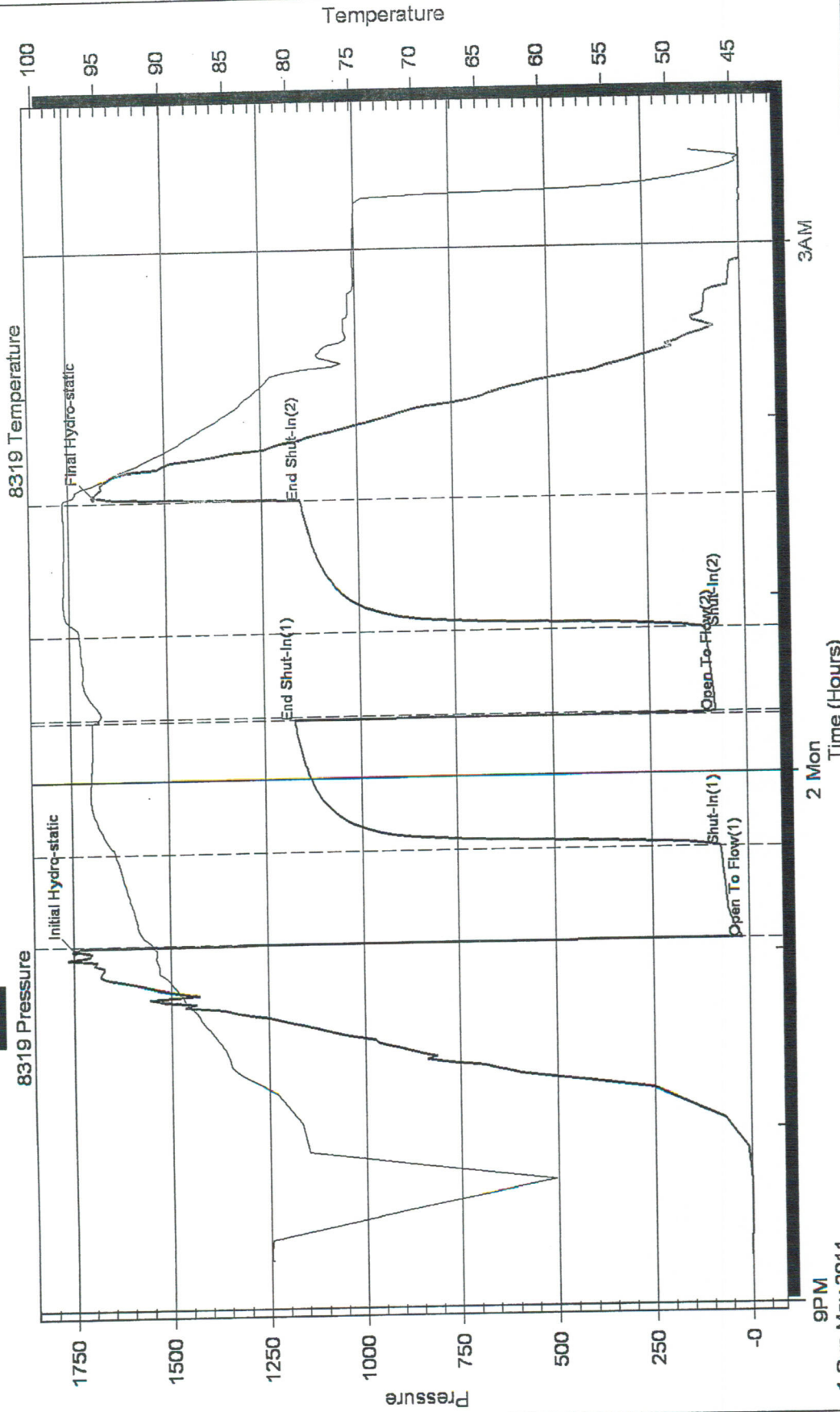
Serial #:

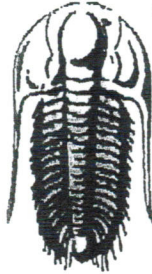
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Anna 1-3

Start Date: 2011.05.02 @ 09:40:44

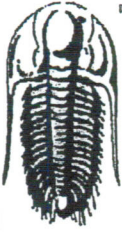
End Date: 2011.05.02 @ 15:01:44

Job Ticket #: 42727 DST #: 4

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

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42727

DST#: 4

ATTN: Richard Bell

Test Start: 2011.05.02 @ 09:40:44

GENERAL INFORMATION:

Formation: **KC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:44

Time Test Ended: 15:01:44

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3506.00 ft (KB) To 3533.00 ft (KB) (TVD)

Total Depth: 3533.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2217.00 ft (KB)

2212.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8319 Inside

Press@RunDepth: 39.16 psig @ 3516.00 ft (KB)

Start Date: 2011.05.02

End Date:

2011.05.02

Start Time: 09:40:49

End Time:

15:01:43

Capacity: 8000.00 psig

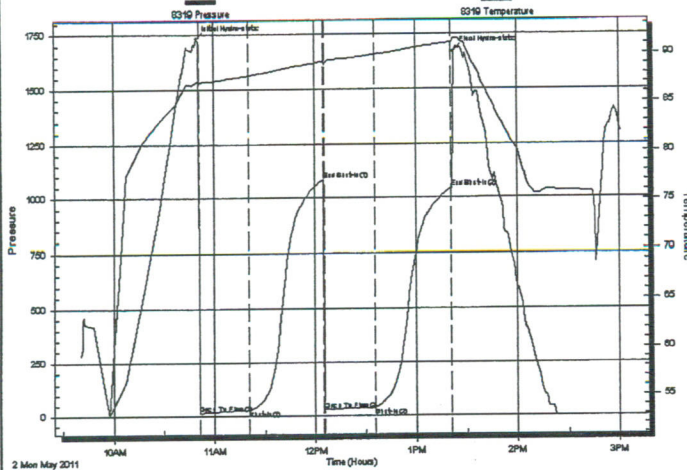
Last Calib.: 2011.05.02

Time On Btmr: 2011.05.02 @ 10:49:14

Time Off Btmr: 2011.05.02 @ 13:22:14

TEST COMMENT: IF-2in blow
IS- No blow
FF-2.25in blow
FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

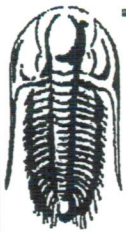
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.36	87.04	Initial Hydro-static
2	14.96	86.95	Open To Flow (1)
32	28.31	87.74	Shut-In(1)
76	1083.25	89.15	End Shut-In(1)
77	29.79	88.98	Open To Flow (2)
107	39.16	89.87	Shut-In(2)
152	1043.76	91.05	End Shut-In(2)
153	1670.41	91.45	Final Hydro-static

Recovery

Length (ft)	Description	Volum (bbl)
5.00	Oil	0.02
60.00	MCO 40%M60%O	0.30

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42727

DST#: 4

ATTN: Richard Bell

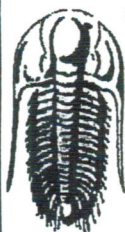
Test Start: 2011.05.02 @ 09:40:44

Tool Information

Drill Pipe:	Length: 3384.00 ft	Diameter: 3.80 inches	Volume: 47.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3506.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3487.00	
Shut In Tool	5.00			3492.00	
Hydraulic tool	5.00			3497.00	
Packer	4.00			3501.00	20.00 Bottom Of Top Packer
Packer	5.00			3506.00	
Stubb	1.00			3507.00	
Perforations	9.00			3516.00	
Recorder	0.00	8319	Inside	3516.00	
Recorder	0.00	6753	Outside	3516.00	
Perforations	14.00			3530.00	
Bullnose	3.00			3533.00	27.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42727

DST#: 4

ATTN: Richard Bell

Test Start: 2011.05.02 @ 09:40:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 6.38 in³
Resistivity: ohm.m
Salinity: 1100.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 30 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil	0.025
60.00	MCO 40%M60%O	0.295

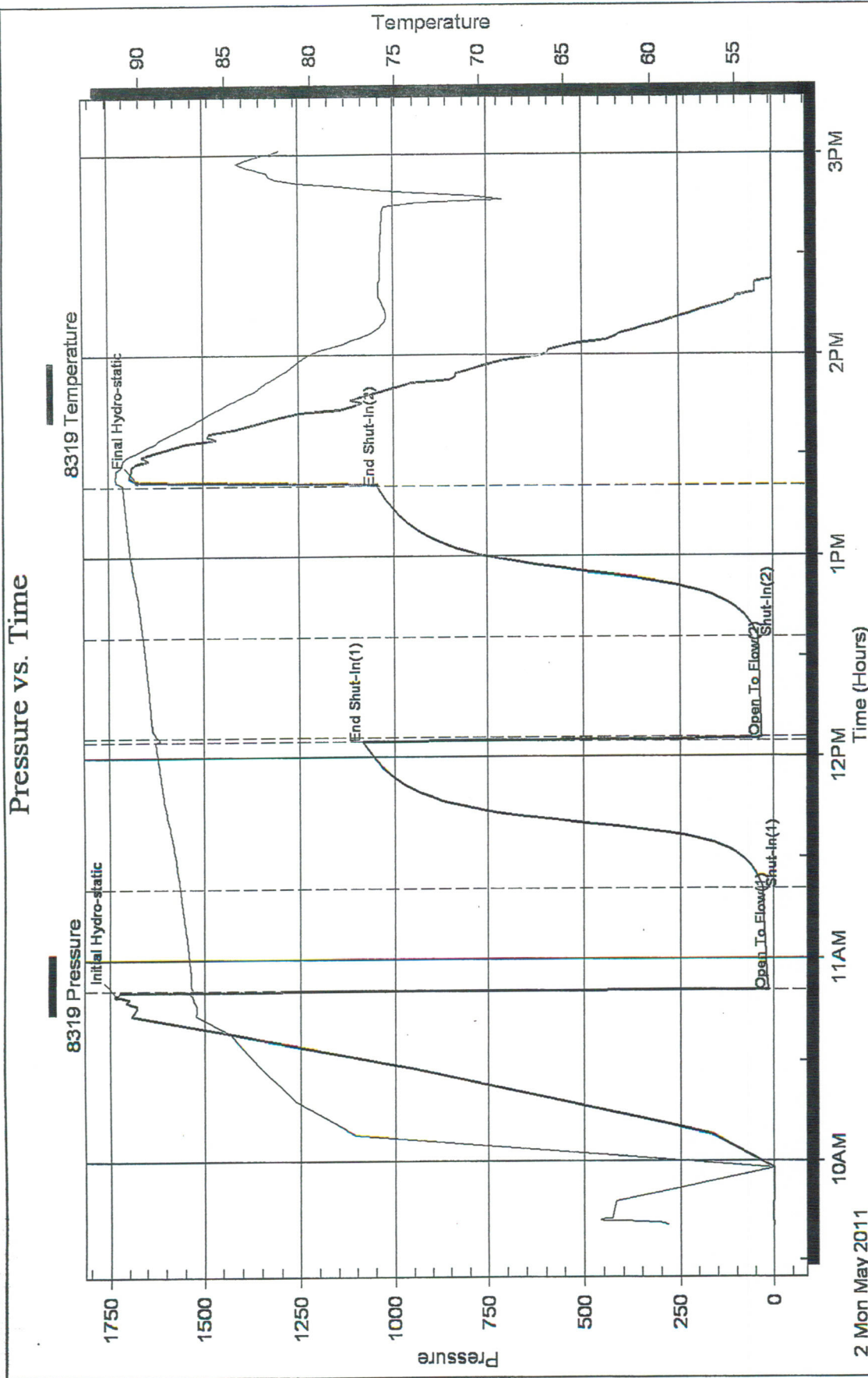
Total Length: 65.00 ft Total Volume: 0.320 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Anna 1-3

Start Date: 2011.05.03 @ 01:55:15

End Date: 2011.05.03 @ 08:37:15

Job Ticket #: 42728 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company

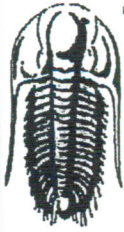
Anna 1-3

3-4s-21w Norton, KS

DST # 5

KC "J"

2011.05.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42728

DST#: 5

ATTN: Richard Bell

Test Start: 2011.05.03 @ 01:55:15

GENERAL INFORMATION:

Formation: KC "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:04:45

Time Test Ended: 08:37:15

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3580.00 ft (KB) To 3612.00 ft (KB) (TVD)

Total Depth: 3612.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2217.00 ft (KB)

2212.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 89.13 psig @ 3595.00 ft (KB)

Start Date: 2011.05.03

End Date:

2011.05.03

Start Time: 01:55:20

End Time:

08:37:14

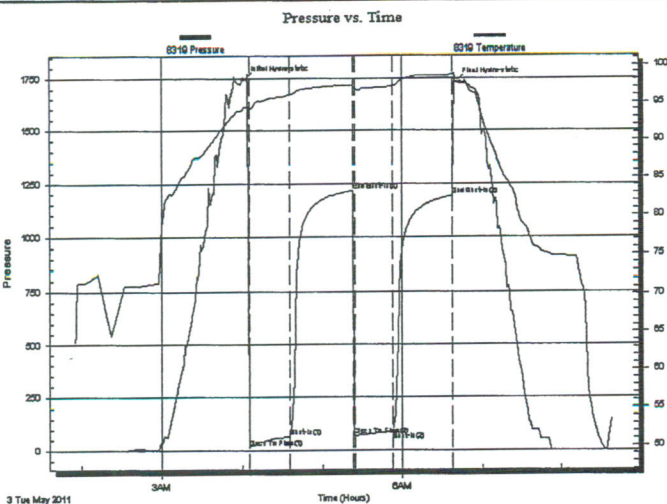
Capacity: 8000.00 psig

Last Calib.: 2011.05.03

Time On Btm: 2011.05.03 @ 04:01:15

Time Off Btm: 2011.05.03 @ 06:40:15

TEST COMMENT: IF-4in blow
IS-No blow
FF-9in blow
FSI-weak surface blow



PRESSURE SUMMARY

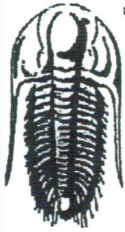
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.41	94.28	Initial Hydro-static
4	15.83	93.70	Open To Flow (1)
34	65.62	96.01	Shut-In(1)
82	1216.59	97.20	End Shut-In(1)
83	71.90	96.78	Open To Flow (2)
112	89.13	97.17	Shut-In(2)
157	1191.43	98.61	End Shut-In(2)
159	1731.61	98.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCO 40%M 60%O	0.15
90.00	MCO 25%M 75%O	0.44
30.00	GO 20%G 80%O	0.38

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42728

DST#: 5

ATTN: Richard Bell

Test Start: 2011.05.03 @ 01:55:15

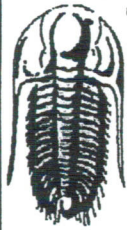
Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3580.00 ft			Final 45000.00 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
Change Over Sub	1.00			3561.00	
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Packer	4.00			3575.00	20.00 Bottom Of Top Packer
Packer	5.00			3580.00	
Stubb	1.00			3581.00	
Perforations	14.00			3595.00	
Recorder	0.00	8319	Inside	3595.00	
Recorder	0.00	6753	Outside	3595.00	
Perforations	14.00			3609.00	
Bullnose	3.00			3612.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42728

DST#: 5

ATTN: Richard Bell

Test Start: 2011.05.03 @ 01:55:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MCO 40%M 60%O	0.148
90.00	MCO 25%M 75%O	0.443
30.00	GO 20%G 80%O	0.384

Total Length: 150.00 ft

Total Volume: 0.975 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

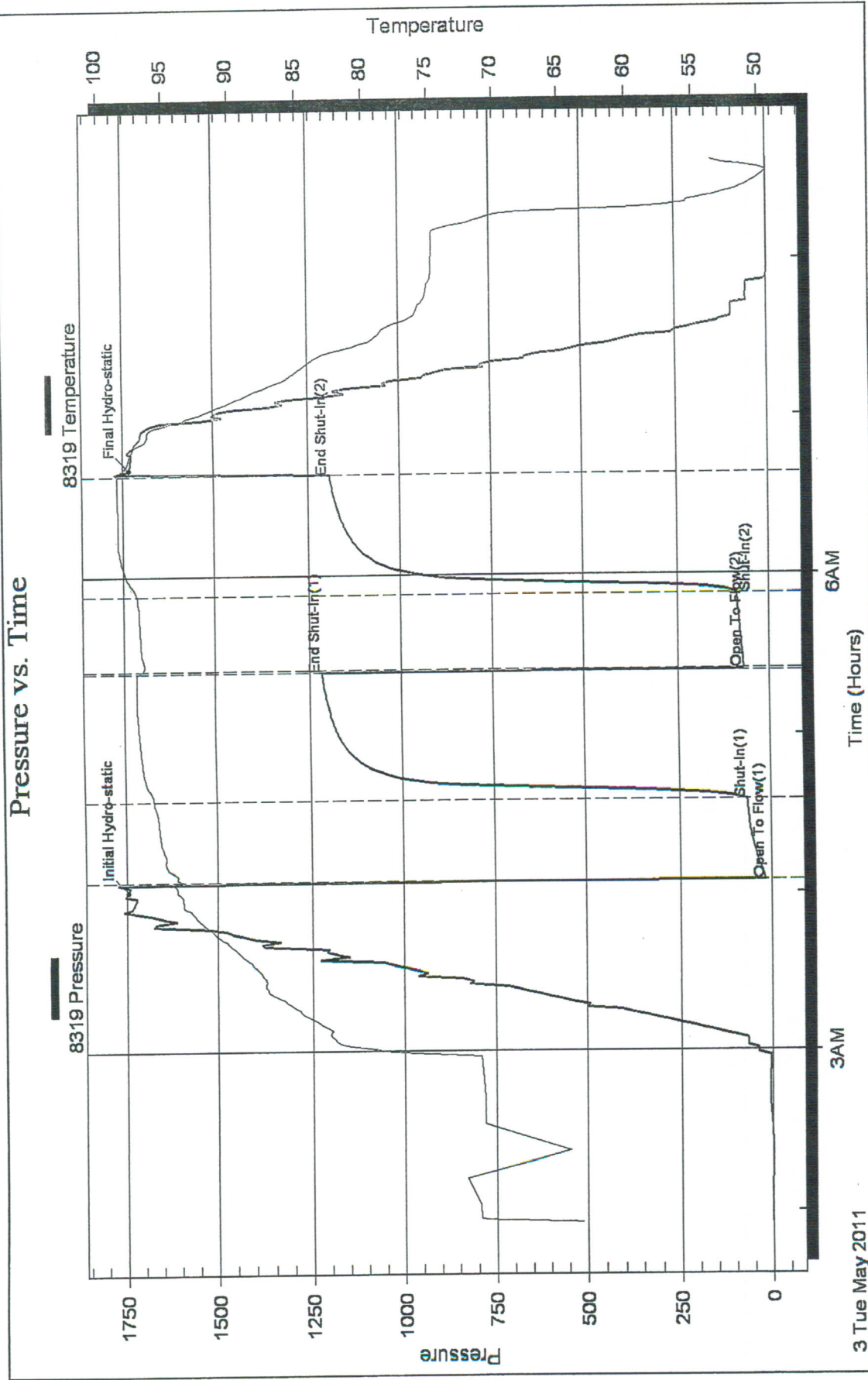
Serial #:

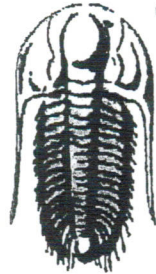
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Anna 1-3

Start Date: 2011.05.03 @ 14:00:06

End Date: 2011.05.03 @ 17:53:36

Job Ticket #: 42730 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company

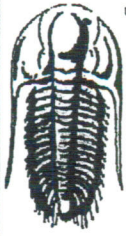
Anna 1-3

3-4s-21w Norton, KS

DST # 6

KC"K"

2011.05.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42730

DST#: 6

ATTN: Richard Bell

Test Start: 2011.05.03 @ 14:00:06

GENERAL INFORMATION:

Formation: **KC"K"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 15:29:36

Time Test Ended: 17:53:36

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3610.00 ft (KB) To 3630.00 ft (KB) (TVD)

Total Depth: 3630.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2217.00 ft (KB)

2212.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 24.61 psig @ 3613.00 ft (KB)

Start Date: 2011.05.03

End Date:

2011.05.03

Start Time: 14:00:11

End Time:

17:53:36

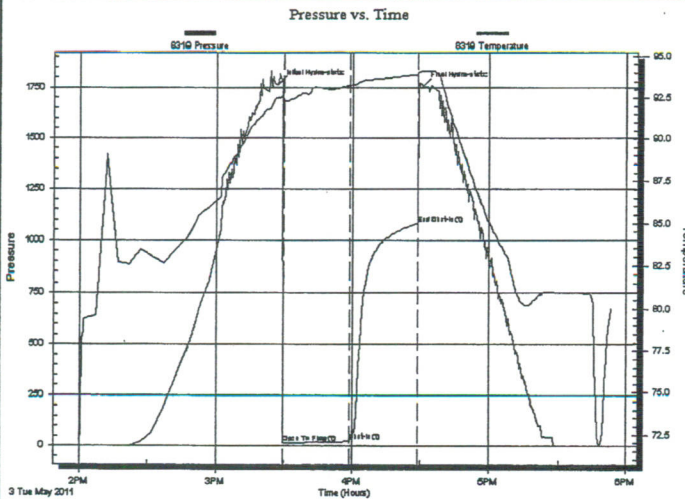
Capacity: 8000.00 psig

Last Calib.: 2011.05.03

Time On Btm: 2011.05.03 @ 15:27:36

Time Off Btm: 2011.05.03 @ 16:31:06

TEST COMMENT: IF-weak surface blow
ISI-No blow



PRESSURE SUMMARY

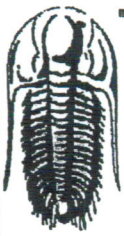
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.56	92.53	Initial Hydro-static
2	14.80	92.31	Open To Flow (1)
31	24.61	93.26	Shut-In (1)
61	1079.02	93.92	End Shut-In (1)
64	1758.58	94.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 10%O 90%M	0.05

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42730

DST#: 6

ATTN: Richard Bell

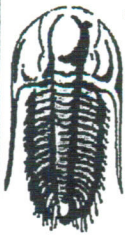
Test Start: 2011.05.03 @ 14:00:06

Tool Information

Drill Pipe:	Length: 3473.00 ft	Diameter: 3.80 inches	Volume: 48.72 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume: 49.33 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3610.00 ft			Final	44000.00 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
Change Over Sub	1.00			3591.00	
Shut In Tool	5.00			3596.00	
Hydraulic tool	5.00			3601.00	
Packer	4.00			3605.00	20.00 Bottom Of Top Packer
Packer	5.00			3610.00	
Stubb	1.00			3611.00	
Perforations	2.00			3613.00	
Recorder	0.00	8319	Inside	3613.00	
Recorder	0.00	6753	Outside	3613.00	
Perforations	14.00			3627.00	
Bullnose	3.00			3630.00	20.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Anna 1-3

PO Box 428
Logan, KS 67646

3-4s-21w Norton, KS

ATTN: Richard Bell

Job Ticket: 42730

DST#: 6

Test Start: 2011.05.03 @ 14:00:06

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 10%O 90%M	0.049

Total Length: 10.00ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

