

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co**

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

13-7s-24w Graham KS

Couey #5-13

Start Date: 2010.03.21 @ 20:45:33

End Date: 2010.03.22 @ 02:32:33

Job Ticket #: 38244 DST #: 1

KCC
JUN 09 2010
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 11 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2010.04.07 @ 13:41:19 Page 1

ORIGINAL

Baird Oil Co

Couey #5-13

13-7s-24w Graham KS

DST # 1

LKC "A"

2010.03.21



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

Couey #5-13

13-7s-24w Graham KS

Job Ticket: 38244

DST#: 1

Test Start: 2010.03.21 @ 20:45:33

GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:47:03

Time Test Ended: 02:32:33

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3680.00 ft (KB) To 3707.00 ft (KB) (TVD)

Total Depth: 3707.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2401.00 ft (KB)

2396.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 433.92 psig @ 3684.00 ft (KB)

Start Date: 2010.03.21

End Date:

2010.03.22

Start Time: 20:45:38

End Time:

02:32:32

Capacity: 8000.00 psig

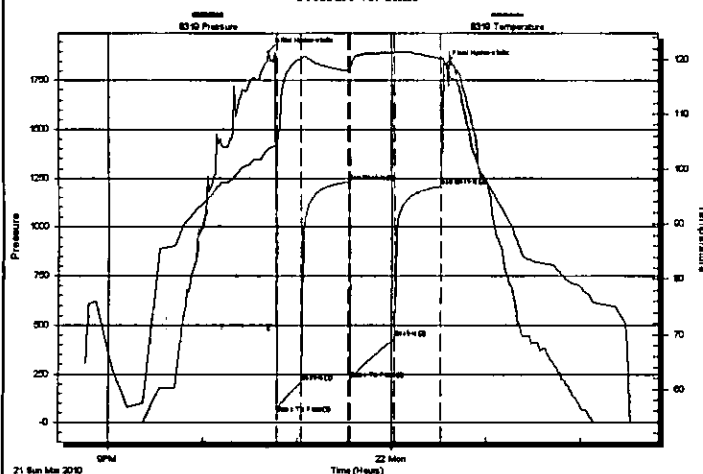
Last Calib.: 2010.03.22

Time On Btm: 2010.03.21 @ 22:42:03

Time Off Btm: 2010.03.22 @ 00:34:33

TEST COMMENT: IF-BOB in 3.5min
IS-Weak surface blow died in 23min
FF-BOB in 4.5min
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.68	103.72	Initial Hydro-static
5	47.55	104.08	Open To Flow (1)
21	207.92	120.12	Shut-In(1)
51	1231.13	117.98	End Shut-In(1)
52	223.68	118.18	Open To Flow (2)
80	433.92	121.19	Shut-In(2)
110	1208.62	120.21	End Shut-In(2)
113	1833.43	119.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Water	7.57
120.00	MCW 80%W 20%M	1.68
150.00	VSOWCM 5%O 30%W 65%M	2.10
2.00	Free Oil	0.03

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JAN 13 2010



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38244

DST#: 1

ATTN: Richard Bell

Test Start: 2010.03.21 @ 20:45:33

Tool Information

Drill Pipe:	Length: 3661.00 ft	Diameter: 3.80 inches	Volume: 51.35 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:	45000.00 lb
		Total Volume:	51.96 bbl	Tool Chased	ft
Drill Pipe Above KB:	125.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3680.00 ft			Final	45000.00 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			3661.00	
Shut In Tool	5.00			3666.00	
Hydraulic tool	5.00			3671.00	
Packer	4.00			3675.00	20.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Perforations	3.00			3684.00	
Recorder	0.00	8319	Inside	3684.00	
Recorder	0.00	8369	Inside	3684.00	
Perforations	20.00			3704.00	
Bullnose	3.00			3707.00	27.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38244

DST#: 1

ATTN: Richard Bell

Test Start: 2010.03.21 @ 20:45:33

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: 130000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	Water	7.567
120.00	MCW 80%W 20%M	1.683
150.00	VSOWCM 5%O 30%W 65%M	2.104
2.00	Free Oil	0.028

Total Length: 892.00 ft

Total Volume: 11.382 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

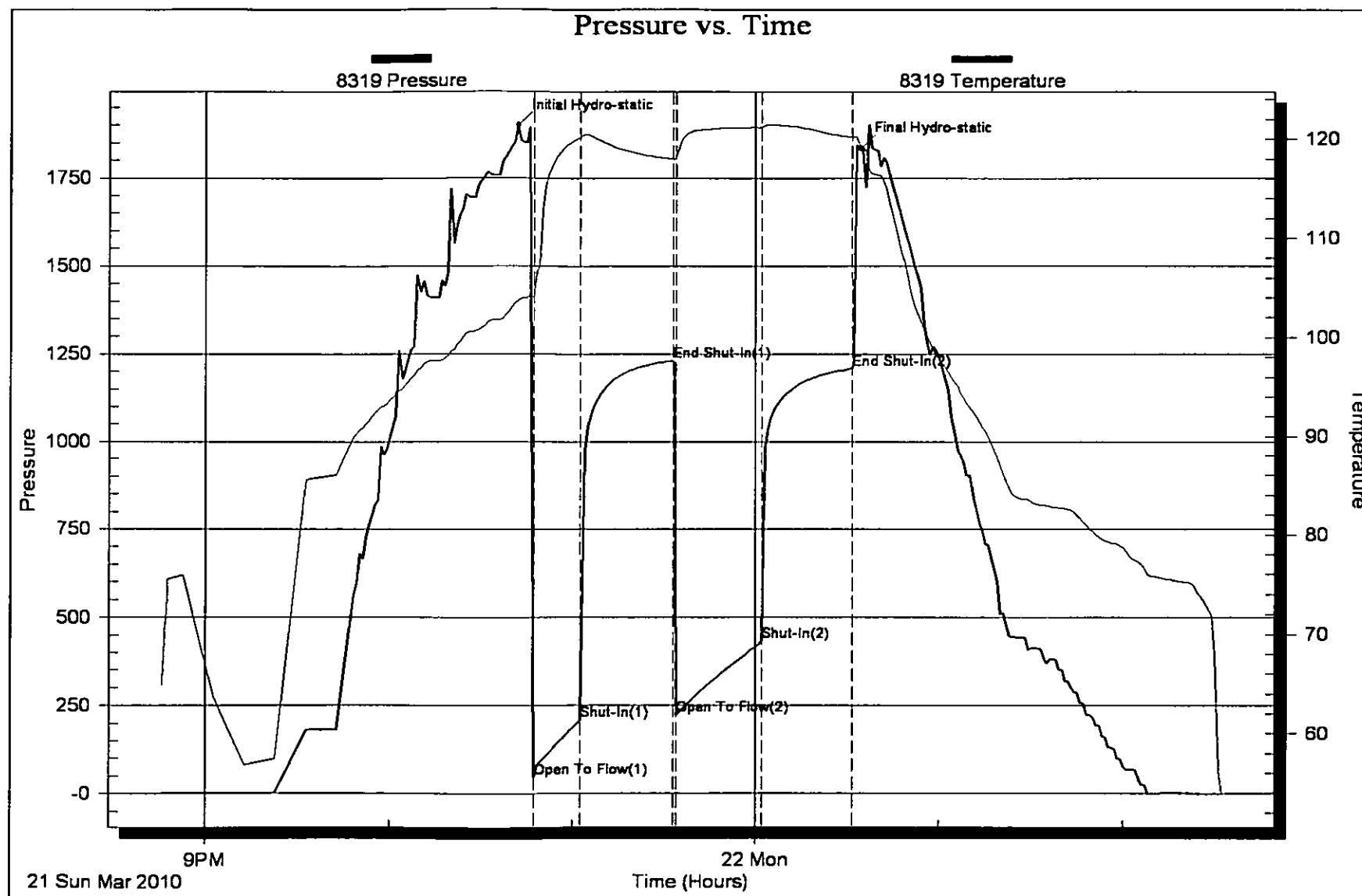
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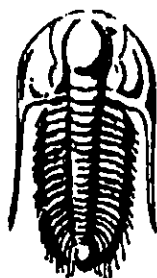
Inside

Baird Oil Co

13-7s-24w Graham KS

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co**

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

13-7s-24w Graham KS

Couey #5-13

Start Date: 2010.03.22 @ 08:00:34

End Date: 2010.03.22 @ 15:01:34

Job Ticket #: 38245 DST #: 2

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 Co

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

Couey #5-13

13-7s-24w Graham KS

Job Ticket: 38245

DST#: 2

Test Start: 2010.03.22 @ 08:00:34

GENERAL INFORMATION:

Formation: LKC C

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:01:34

Time Test Ended: 15:01:34

Interval: 3707.00 ft (KB) To 3723.00 ft (KB) (TVD)

Total Depth: 3723.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Reference Elevations: 2401.00 ft (KB)

2396.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 291.50 psig @ 3711.00 ft (KB)

Start Date: 2010.03.22

End Date:

2010.03.22

Start Time: 08:00:39

End Time:

15:01:33

Capacity: 8000.00 psig

Last Calib.: 2010.03.22

Time On Btm: 2010.03.22 @ 09:56:34

Time Off Btm: 2010.03.22 @ 12:43:34

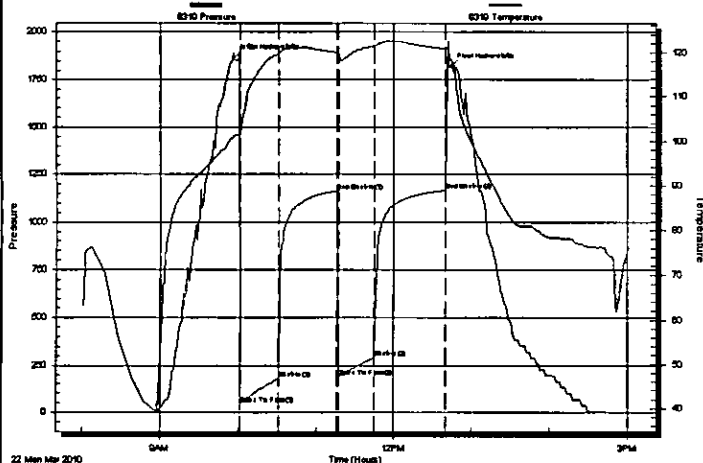
TEST COMMENT: IF-BOB in 4min

IS- 5in blow

FF-BOB in 7min

FSI-5.5in blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.22	101.15	Initial Hydro-static
5	41.08	101.57	Open To Flow (1)
35	176.65	119.73	Shut-In(1)
80	1162.36	120.03	End Shut-In(1)
81	189.85	119.58	Open To Flow (2)
109	291.50	121.45	Shut-In(2)
164	1165.64	120.86	End Shut-In(2)
167	1818.46	118.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 15%G 55%O 30%M	0.30
120.00	GSMCO 15%G 80%O 5%M	1.10
60.00	GMCO 15%G 65%O 20%M	0.84
530.00	GO 20%G 80%O	7.43
0.00	600ft GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38245

DST#: 2

ATTN: Richard Bell

Test Start: 2010.03.22 @ 08:00:34

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 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:	50.87 bbl	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3707.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	36.00 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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Change Over Sub	1.00			3688.00	
Shut In Tool	5.00			3693.00	
Hydraulic tool	5.00			3698.00	
Packer	4.00			3702.00	20.00 Bottom Of Top Packer
Packer	5.00			3707.00	
Stubb	1.00			3708.00	
Perforations	3.00			3711.00	
Recorder	0.00	8319	Inside	3711.00	
Recorder	0.00	8369	Inside	3711.00	
Perforations	9.00			3720.00	
Bullnose	3.00			3723.00	16.00 Bottom Packers & Anchor

Total Tool Length: 36.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38245

DST#: 2

ATTN: Richard Bell

Test Start: 2010.03.22 @ 08:00:34

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: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 15%G 55%O 30%M	0.295
120.00	GSMCO 15%G 80%O 5%M	1.100
60.00	GMCO 15%G 65%O 20%M	0.842
530.00	GO 20%G 80%O	7.435
0.00	600ft GIP	0.000

Total Length: 770.00 ft

Total Volume: 9.672 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

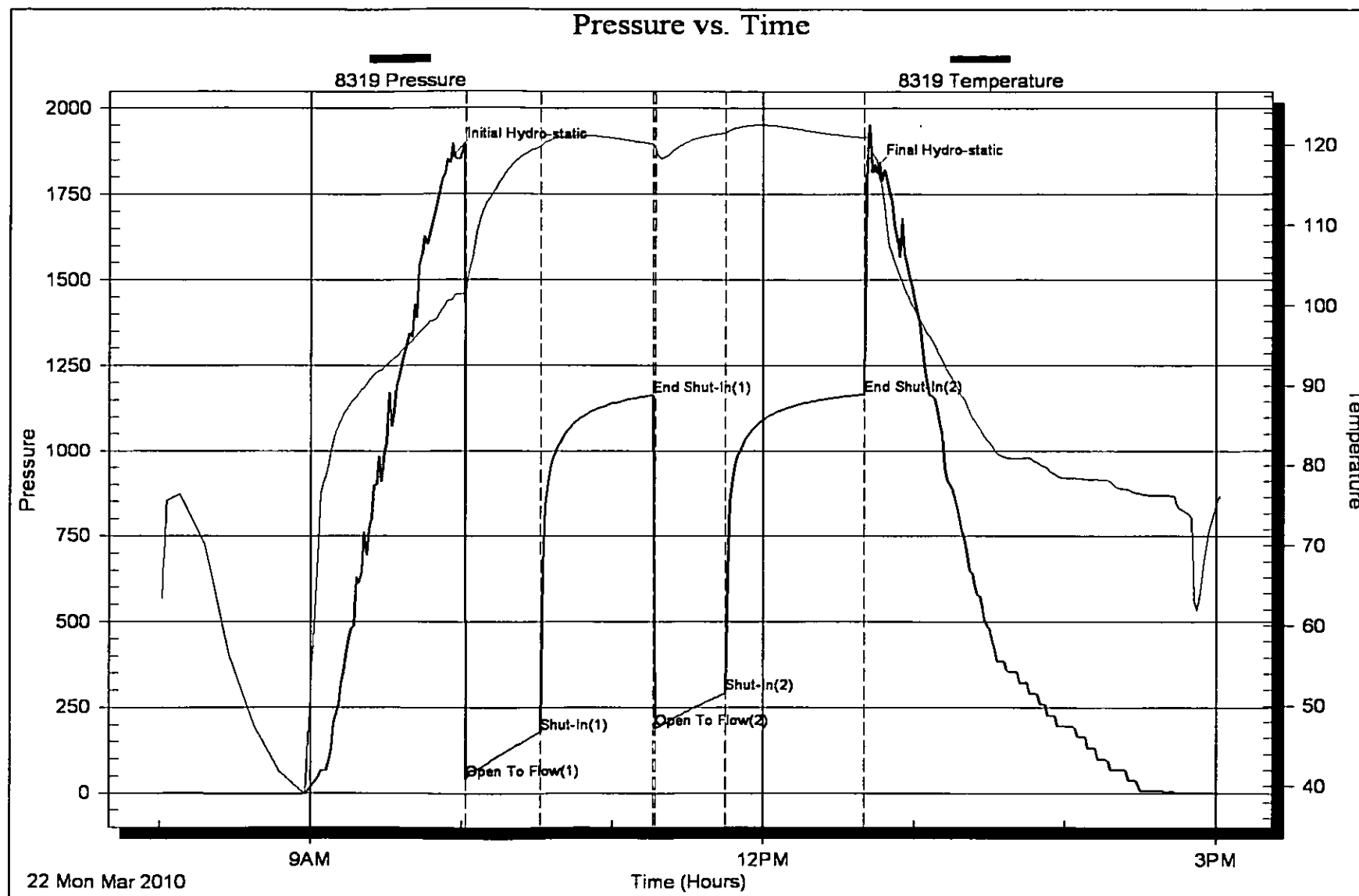
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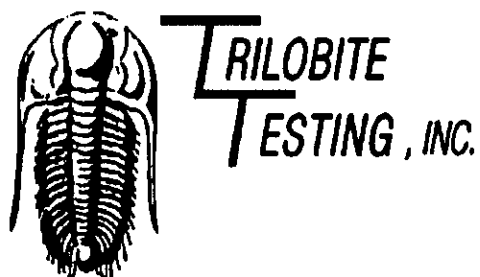
Serial #: 8319

Inside Baird Oil Co

13-7s-24w Graham KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co**

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

13-7s-24w Graham KS

Couey #5-13

Start Date: 2010.03.22 @ 19:58:14

End Date: 2010.03.23 @ 00:58:44

Job Ticket #: 38246 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 Co
113 W Main PO Box 428
Logan Ks 67646
ATTN: Richard Bell

Couey #5-13
13-7s-24w Graham KS
Job Ticket: 38246 DST#: 3
Test Start: 2010.03.22 @ 19:58:14

GENERAL INFORMATION:

Formation: LKC "c2"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:18:14
Time Test Ended: 00:58:44

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

Interval: 3723.00 ft (KB) To 3730.00 ft (KB) (TVD)
Total Depth: 3730.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2401.00 ft (KB)
2396.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319

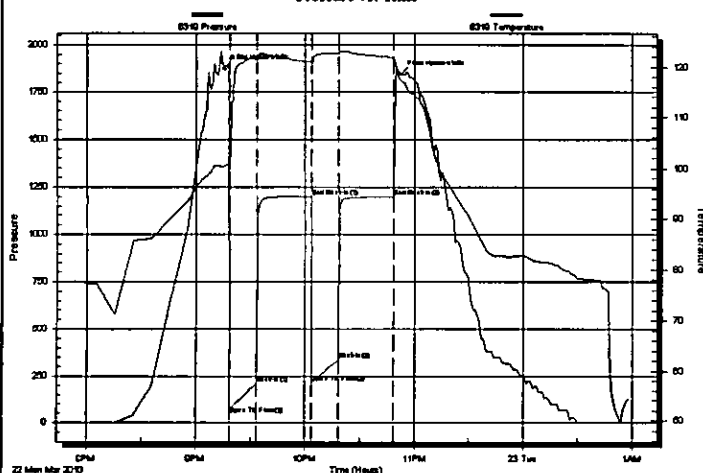
Inside

Press@RunDepth: 338.05 psig @ 3727.00 ft (KB)
Start Date: 2010.03.22 End Date: 2010.03.23
Start Time: 19:58:19 End Time: 00:58:43

Capacity: 8000.00 psig
Last Calib.: 2010.03.23
Time On Btm: 2010.03.22 @ 21:14:44
Time Off Btm: 2010.03.22 @ 22:52:14

TEST COMMENT: IF-BOB in 3min
IS-Very weak surface blow
FF-BOB in 4.5min
FSI-Very weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

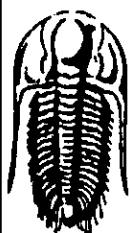
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.30	100.42	Initial Hydro-static
4	41.29	100.02	Open To Flow (1)
19	209.33	122.07	Shut-In(1)
49	1200.90	121.00	End Shut-In(1)
49	216.49	120.61	Open To Flow (2)
64	338.05	122.70	Shut-In(2)
94	1199.21	121.85	End Shut-In(2)
98	1847.13	117.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	Oilscum water	2.80
300.00	SOCW 5%O 95%W	4.21
60.00	OCW 20%O 80%W	0.84
60.00	SGMCO 10%G 70%O 20%M	0.84
0.00	150ft GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38246

DST#: 3

ATTN: Richard Bell

Test Start: 2010.03.22 @ 19:58:14

Tool Information

Drill Pipe:	Length: 3598.00 ft	Diameter: 3.80 inches	Volume: 50.47 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: 50000.00 lb
		Total Volume: 51.08 bbl		Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3723.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	27.00 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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Change Over Sub	1.00			3704.00	
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	4.00			3718.00	20.00 Bottom Of Top Packer
Packer	5.00			3723.00	
Stubb	1.00			3724.00	
Perforations	3.00			3727.00	
Recorder	0.00	8319	Inside	3727.00	
Recorder	0.00	8369	Inside	3727.00	
Bullnose	3.00			3730.00	7.00 Bottom Packers & Anchor
Total Tool Length:	27.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38246

DST#: 3

ATTN: Richard Bell

Test Start: 2010.03.22 @ 19:58:14

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:

110000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
280.00	Oilscum water	2.798
300.00	SOCW 5%O 95%W	4.208
60.00	OCW 20%O 80%W	0.842
60.00	SGMCO 10%G 70%O 20%M	0.842
0.00	150ft GIP	0.000

Total Length: 700.00 ft

Total Volume: 8.690 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

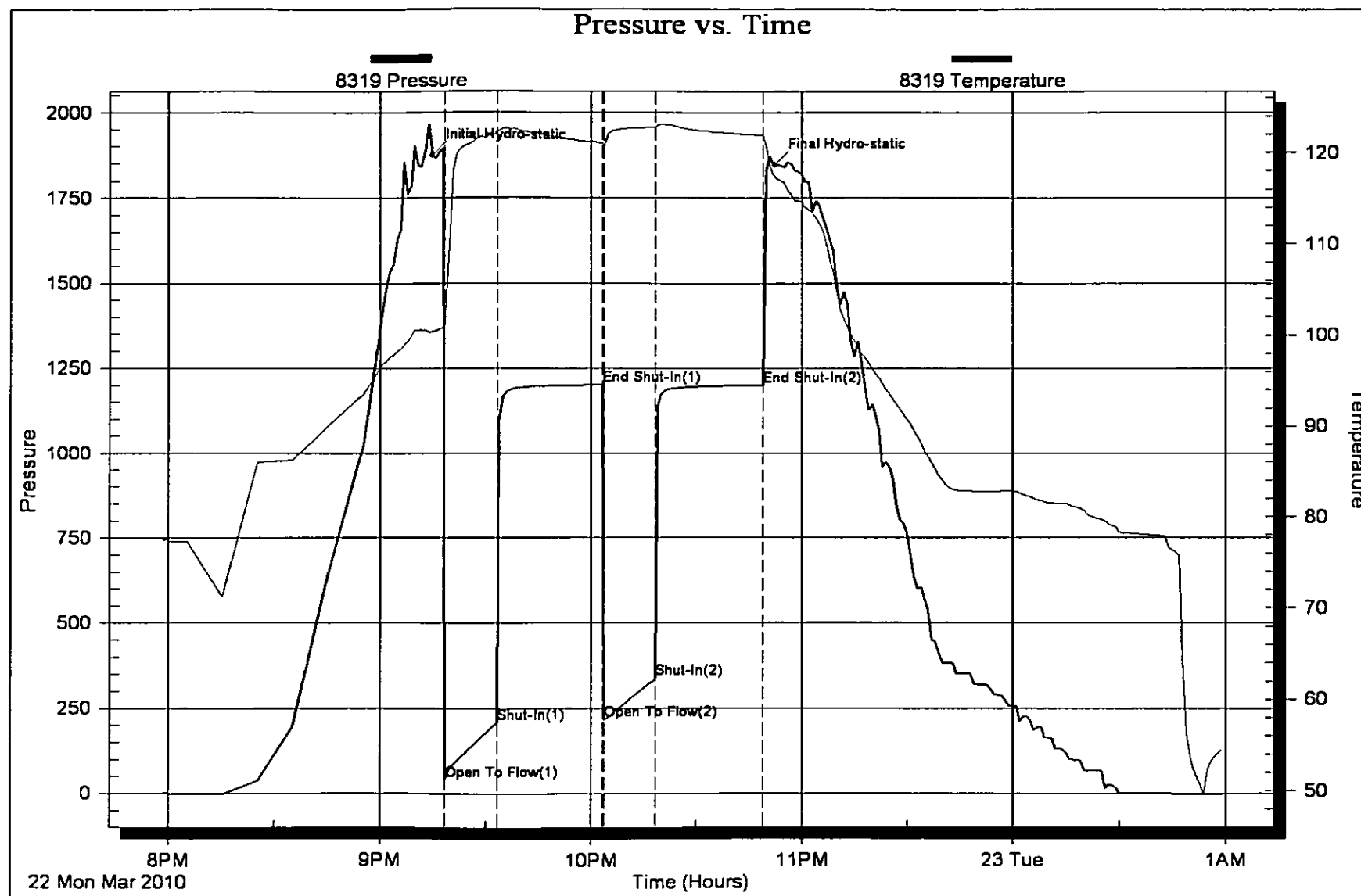
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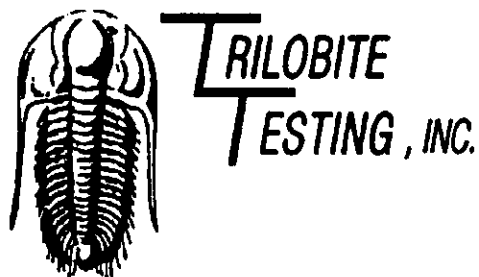
Inside

Baird Oil Co

13-7s-24w Graham KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co**

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

13-7s-24w Graham KS

Couey #5-13

Start Date: 2010.03.23 @ 06:20:36

End Date: 2010.03.23 @ 12:00:06

Job Ticket #: 38247 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 Co

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

Couey #5-13

13-7s-24w Graham KS

Job Ticket: 38247

DST#: 4

Test Start: 2010.03.23 @ 06:20:36

GENERAL INFORMATION:

Formation: LKC "D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:02:06

Time Test Ended: 12:00:06

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3729.00 ft (KB) To 3747.00 ft (KB) (TVD)

Total Depth: 3707.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2401.00 ft (KB)

2396.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 11.26 psig @ 3733.00 ft (KB)

Start Date: 2010.03.23

End Date:

2010.03.23

Start Time: 06:20:41

End Time:

12:00:05

Capacity: 8000.00 psig

Last Calib.: 2010.03.23

Time On Btm: 2010.03.23 @ 07:57:06

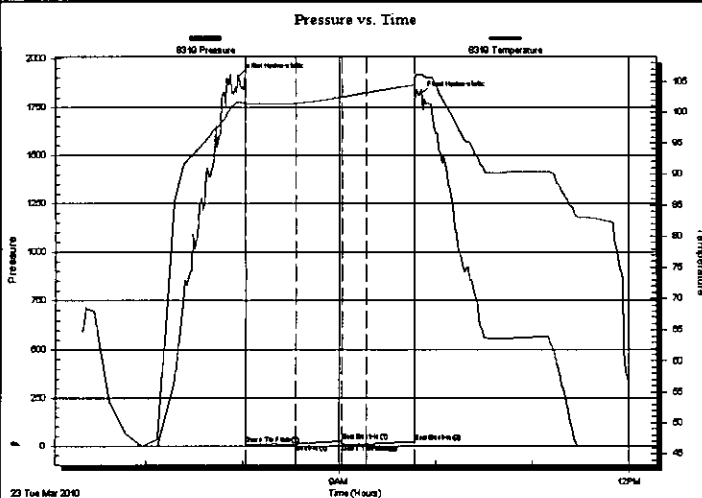
Time Off Btm: 2010.03.23 @ 09:50:06

TEST COMMENT: IF-Very weak surface blow

IS-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

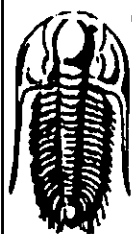
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.14	101.64	Initial Hydro-static
5	11.28	101.35	Open To Flow (1)
36	12.09	101.48	Shut-In(1)
65	24.86	102.43	End Shut-In(1)
65	10.96	102.44	Open To Flow (2)
80	11.26	103.09	Shut-In(2)
110	22.91	104.45	End Shut-In(2)
113	1814.55	106.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oilspotted mud	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38247

DST#: 4

ATTN: Richard Bell

Test Start: 2010.03.23 @ 06:20:36

Tool Information

Drill Pipe:	Length: 3598.00 ft	Diameter: 3.80 inches	Volume: 50.47 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:	45000.00 lb
		Total Volume:	51.08 bbl	Tool Chased	ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3729.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	38.00 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			3710.00	
Shut In Tool	5.00			3715.00	
Hydraulic tool	5.00			3720.00	
Packer	4.00			3724.00	20.00 Bottom Of Top Packer
Packer	5.00			3729.00	
Stubb	1.00			3730.00	
Perforations	3.00			3733.00	
Recorder	0.00	8319	Inside	3733.00	
Recorder	0.00	8369	Inside	3733.00	
Perforations	11.00			3744.00	
Bullnose	3.00			3747.00	18.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38247

DST#: 4

ATTN: Richard Bell

Test Start: 2010.03.23 @ 06:20:36

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Oilspotted mud	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:

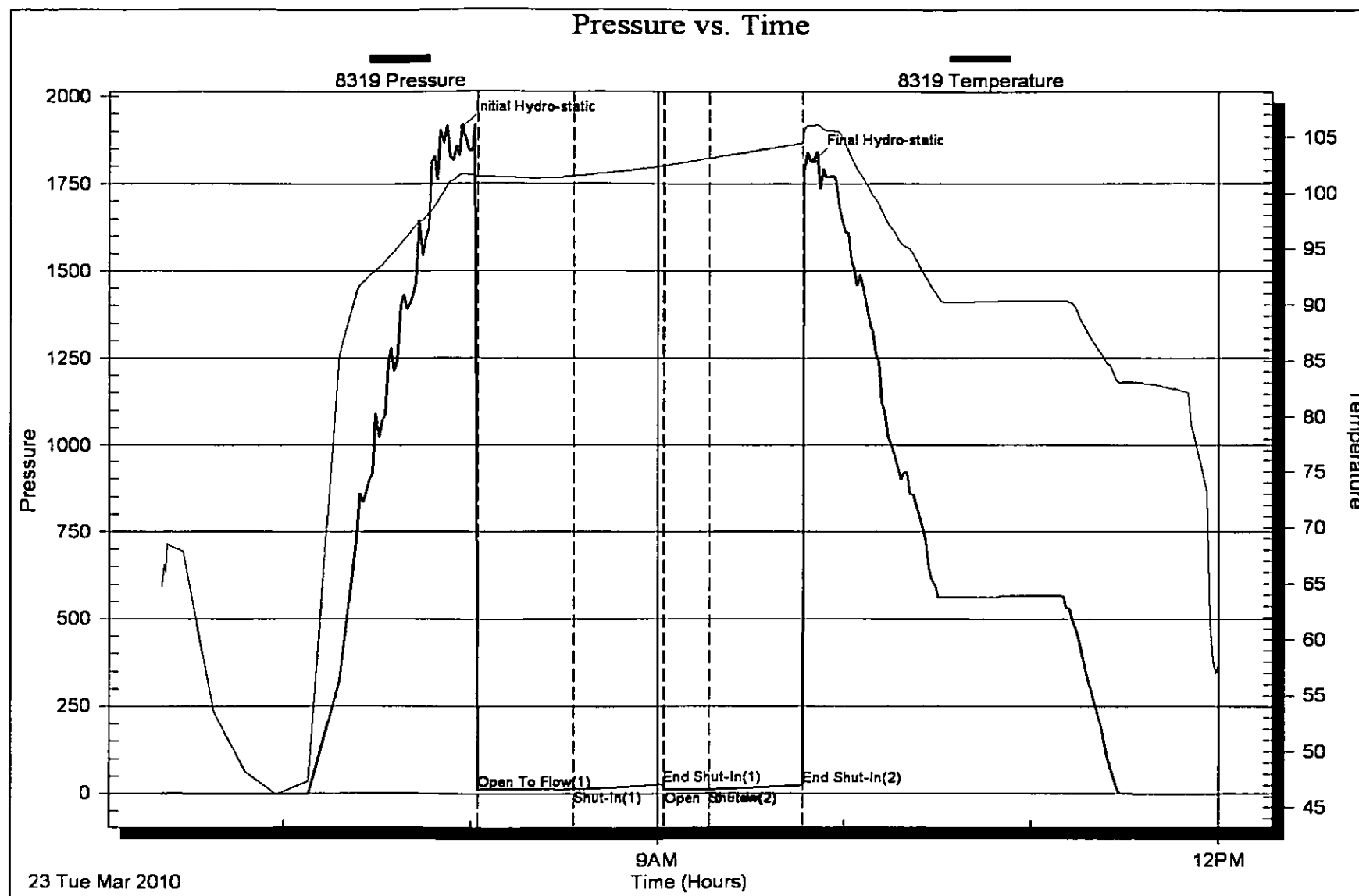
Serial #: 8319

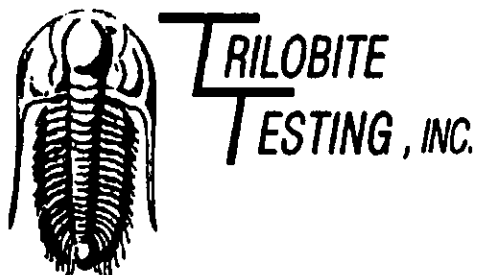
Inside

Baird Oil Co

13-7s-24w Graham KS

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co**

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

13-7s-24w Graham KS

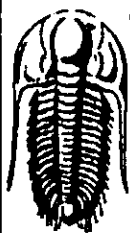
Couey #5-13

Start Date: 2010.03.23 @ 21:45:18

End Date: 2010.03.24 @ 03:45:48

Job Ticket #: 38248 DST #: 5

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 Co

113 W Main PO Box 428
Logan Ks 67646

ATTN: Richard Bell

Couey #5-13

13-7s-24w Graham KS

Job Ticket: 38248

DST#: 5

Test Start: 2010.03.23 @ 21:45:18

GENERAL INFORMATION:

Formation: LKC "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:05:48

Time Test Ended: 03:45:48

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3828.00 ft (KB) To 3860.00 ft (KB) (TVD)

Total Depth: 3860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2401.00 ft (KB)

2396.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 76.99 psig @ 3832.00 ft (KB)

Start Date: 2010.03.23

End Date:

2010.03.24

Start Time: 21:45:23

End Time:

03:45:47

Capacity: 8000.00 psig

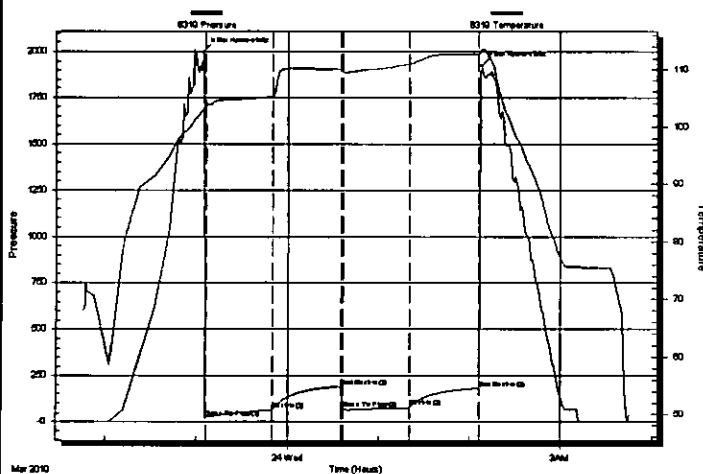
Last Calib.: 2010.03.24

Time On Btm: 2010.03.23 @ 23:04:18

Time Off Btm: 2010.03.24 @ 02:08:17

TEST COMMENT: IF-1in blow died back to very weak surface blow
IS-No blow
FF-Very weak surface blow
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.75	102.95	Initial Hydro-static
2	22.30	103.38	Open To Flow (1)
46	63.34	105.24	Shut-In(1)
91	191.25	110.14	End Shut-In(1)
92	70.48	109.66	Open To Flow (2)
137	76.99	110.95	Shut-In(2)
182	176.94	112.63	End Shut-In(2)
184	1925.38	113.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20%O 80%M	0.30
60.00	MCO 30%M 70%O	0.30
30.00	MCO 10%M 90%O	0.38

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38248

DST#: 5

ATTN: Richard Bell

Test Start: 2010.03.23 @ 21:45:18

Tool Information

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 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:	60000.00 lb
		Total Volume:	52.37 bbl	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3828.00 ft			Final	42000.00 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			3809.00	
Shut In Tool	5.00			3814.00	
Hydraulic tool	5.00			3819.00	
Packer	4.00			3823.00	20.00 Bottom Of Top Packer
Packer	5.00			3828.00	
Stubb	1.00			3829.00	
Perforations	3.00			3832.00	
Recorder	0.00	8319	Inside	3832.00	
Recorder	0.00	8369	Inside	3832.00	
Perforations	25.00			3857.00	
Bullnose	3.00			3860.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co

Couey #5-13

113 W Main PO Box 428
Logan Ks 67646

13-7s-24w Graham KS

Job Ticket: 38248

DST#: 5

ATTN: Richard Bell

Test Start: 2010.03.23 @ 21:45:18

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: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OCM 20%O 80%M	0.295
60.00	MCO 30%M 70%O	0.295
30.00	MCO 10%M 90%O	0.384

Total Length: 150.00 ft

Total Volume: 0.974 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

Inside

Baird Oil Co

13-7s-24w Graham KS

DST Test Number: 5

