



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, Ks
67646

ATTN: Rich Bell

13-7s-24w Graham KS

Couey #2-13

Start Date: 2009.09.01 @ 01:55:22

End Date: 2009.09.01 @ 08:18:16

Job Ticket #: 35214 DST #: 1

CONFIDENTIAL
DEC 07 2009
KCC

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 22 2009

CONSERVATION DIVISION
WICHITA, KS

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: Rich Bell

Couey #2-13

13-7s-24w Graham KS

Job Ticket: 35214

DST#: 1

Test Start: 2009.09.01 @ 01:55:22

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 03:55:47

Time Test Ended: 08:18:16

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3695.00 ft (KB) To 3717.00 ft (KB) (TVD)**

Total Depth: **3717.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2414.00 ft (KB)**

2409.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: **632.80 psig @ 3699.00 ft (KB)**

Start Date: **2009.09.01**

End Date:

2009.09.01

Capacity: **7000.00 psig**

Last Calib.: **2009.09.01**

Start Time: **01:55:22**

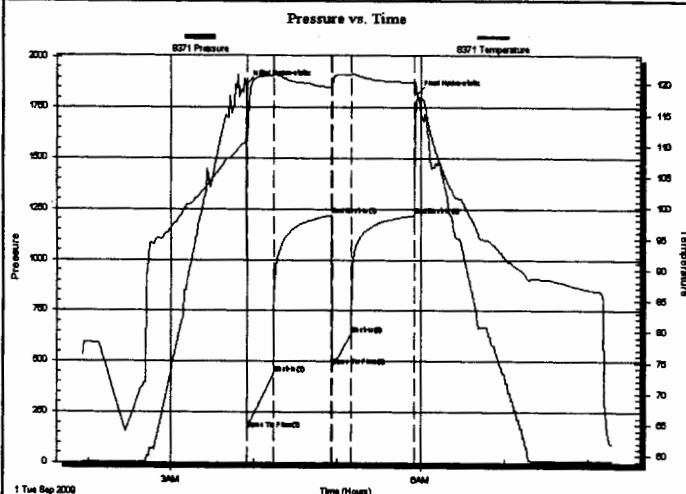
End Time:

08:18:16

Time On Btm: **2009.09.01 @ 03:54:47**

Time Off Btm: **2009.09.01 @ 05:56:47**

TEST COMMENT: IFP - BOB 90 sec.
ISI - no blow back
FFP - BOB 90 sec.
FSI - no blow black



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.75	111.41	Initial Hydro-static
1	165.52	111.51	Open To Flow (1)
20	439.93	121.35	Shut-In(1)
61	1219.32	119.33	End Shut-In(1)
62	479.63	119.38	Open To Flow (2)
75	632.80	121.50	Shut-In(2)
121	1219.63	120.13	End Shut-In(2)
122	1820.04	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
865.00	MW 95%W, 5%M	11.00
125.00	OCMW 10%O, 80%W, 10%M	1.75
340.00	OCMW 10%O, 70%W, 20%M	4.77

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35214

DST#: 1

ATTN: Rich Bell

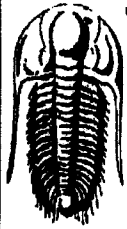
Test Start: 2009.09.01 @ 01:55:22

Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	50.48 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3695.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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			3680.00	
Hydraulic tool	5.00			3685.00	
Packer	5.00			3690.00	20.00 Bottom Of Top Packer
Packer	5.00			3695.00	
Stubb	1.00			3696.00	
Perforations	3.00			3699.00	
Recorder	0.00	8018	Inside	3699.00	
Recorder	0.00	8371	Inside	3699.00	
Perforations	15.00			3714.00	
Bullnose	3.00			3717.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35214

DST#: 1

ATTN: Rich Bell

Test Start: 2009.09.01 @ 01:55:22

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:

50000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
865.00	MW 95%W, 5%M	11.004
125.00	OCMW 10%O, 80%W, 10%M	1.753
340.00	OCMW 10%O, 70%W, 20%M	4.769

Total Length: 1330.00 ft

Total Volume: 17.526 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

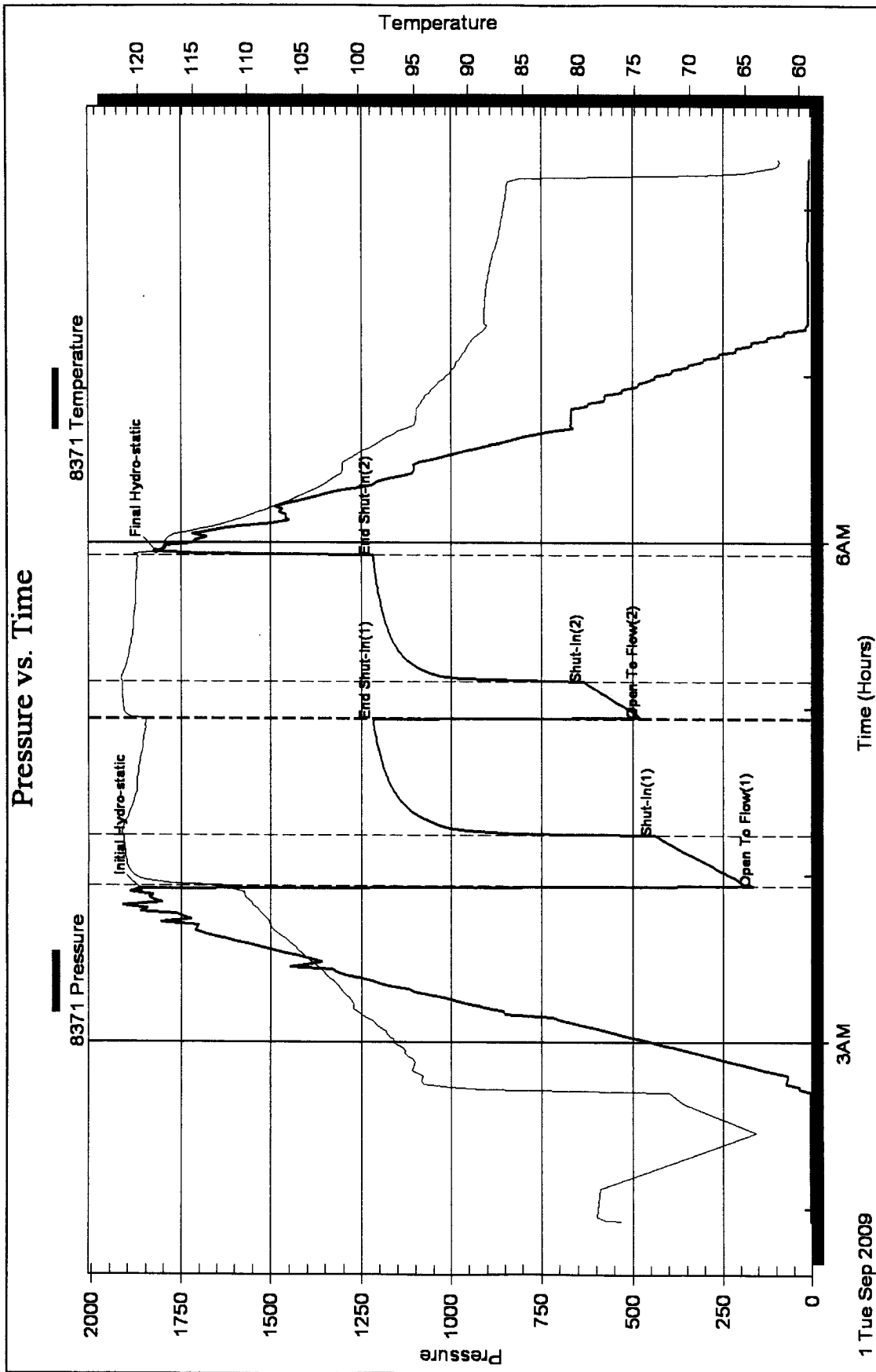
Serial #:

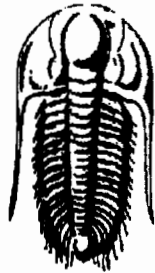
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .177 @ 56F = 50000 chlorides

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, Ks
67646

ATTN: Rich Bell

13-7s-24w Graham KS

Couey #2-13

Start Date: 2009.09.01 @ 14:13:12

End Date: 2009.09.01 @ 19:45:06

Job Ticket #: 35215 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 Company

PO Box 428

Logan, Ks

67646

ATTN: Rich Bell

Couey #2-13

13-7s-24w Graham KS

Job Ticket: 35215

DST#: 2

Test Start: 2009.09.01 @ 14:13:12

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:39:37

Time Test Ended: 19:45:06

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3720.00 ft (KB) To 3744.00 ft (KB) (TVD)**

Total Depth: **3744.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2414.00 ft (KB)**

2409.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8371 Inside

Press@RunDepth: **300.00 psig @ 3726.00 ft (KB)**

Start Date: **2009.09.01**

End Date:

2009.09.01

Start Time: **14:13:12**

End Time:

19:45:06

Capacity: **7000.00 psig**

Last Calib.: **2009.09.01**

Time On Btm: **2009.09.01 @ 15:38:37**

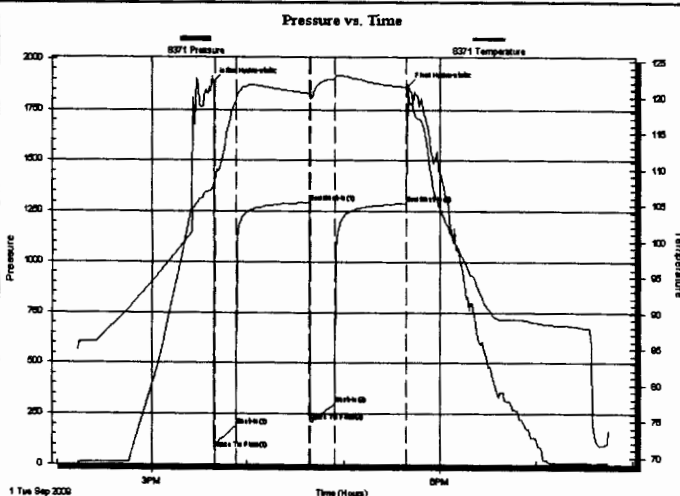
Time Off Btm: **2009.09.01 @ 17:40:07**

TEST COMMENT: IFP - BOB 2 1/2 min.

ISI - no blow back 28 min. - sur.

FFP - BOB 3 min.

FSI -



PRESSURE SUMMARY

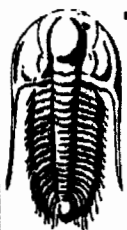
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.62	107.76	Initial Hydro-static
1	74.84	106.95	Open To Flow (1)
15	189.77	119.62	Shut-In (1)
60	1292.53	120.54	End Shut-In (1)
61	210.27	119.84	Open To Flow (2)
76	300.00	122.71	Shut-In (2)
121	1288.24	121.47	End Shut-In (2)
122	1867.11	120.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	GMW 5%G, 85%W, 10%M	2.80
125.00	GWOCM 25%G, 15%O, 10%W, 50%M	1.75
215.00	FREE OIL 95%O, 5%M	3.02
0.00	435' 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

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35215

DST#: 2

ATTN: Rich Bell

Test Start: 2009.09.01 @ 14:13:12

Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	lb
		Total Volume:	50.88 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3720.00 ft			Final	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
Shut In Tool	5.00			3705.00	
Hydraulic tool	5.00			3710.00	
Packer	5.00			3715.00	20.00 Bottom Of Top Packer
Packer	5.00			3720.00	
Stubb	1.00			3721.00	
Perforations	5.00			3726.00	
Recorder	0.00	8018	Inside	3726.00	
Recorder	0.00	8371	Inside	3726.00	
Perforations	15.00			3741.00	
Bullnose	3.00			3744.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Couey #2-13

PO Box 428

13-7s-24w Graham KS

Logan, Ks

Job Ticket: 35215

DST#: 2

67646

Test Start: 2009.09.01 @ 14:13:12

ATTN: Rich Bell

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	GMW 5%G, 85%W, 10%M	2.798
125.00	GWOCM 25%G, 15%O, 10%W, 50%M	1.753
215.00	FREE OIL 95%O, 5%M	3.016
0.00	435' GIP	0.000

Total Length: 620.00 ft

Total Volume:

7.567 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

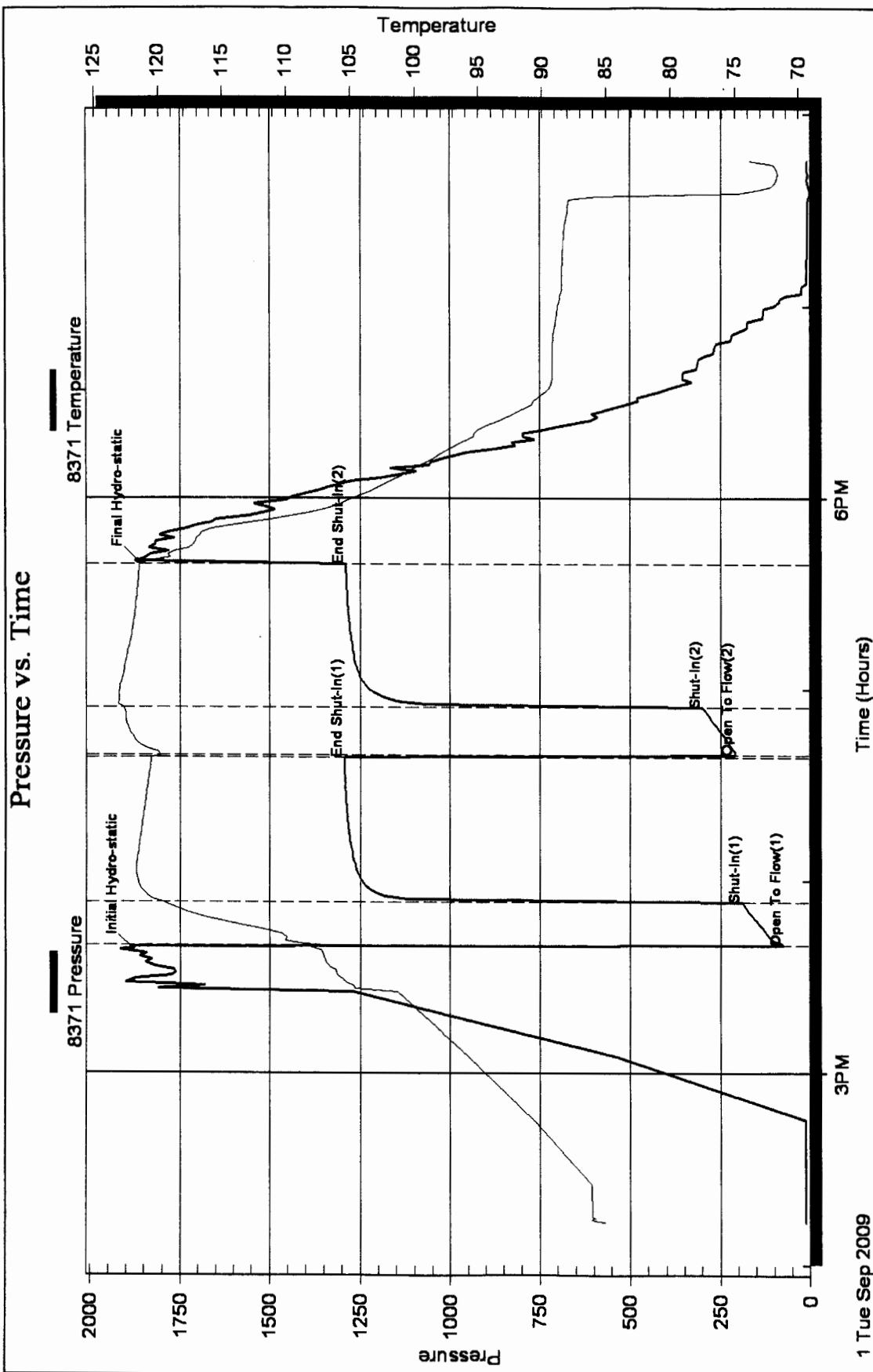
Serial #:

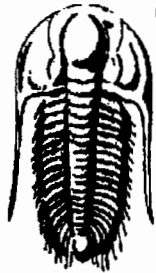
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .162 @ 72F = 48000 chlorides

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, Ks
67646

ATTN: Rich Bell

13-7s-24w Graham KS

Couey #2-13

Start Date: 2009.09.02 @ 01:50:32

End Date: 2009.09.02 @ 06:30:26

Job Ticket #: 35216 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company

Couey #2-13

13-7s-24w Graham KS

DST # 3

LKC "D"

2009.09.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

PO Box 428

Logan, Ks

67646

ATTN: Rich Bell

Couey #2-13

13-7s-24w Graham KS

Job Ticket: 35216

DST#: 3

Test Start: 2009.09.02 @ 01:50:32

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 03:33:27

Time Test Ended: 06:30:26

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3744.00 ft (KB) To 3764.00 ft (KB) (TVD)**

Total Depth: **3764.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2414.00 ft (KB)**

2409.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371 **Inside**

Press@RunDepth: **22.97 psig @ 3746.00 ft (KB)**

Start Date: **2009.09.02**

End Date: **2009.09.02**

Start Time: **01:50:32**

End Time: **06:30:26**

Capacity: **7000.00 psig**

Last Calib.: **2009.09.02**

Time On Btm: **2009.09.02 @ 03:32:27**

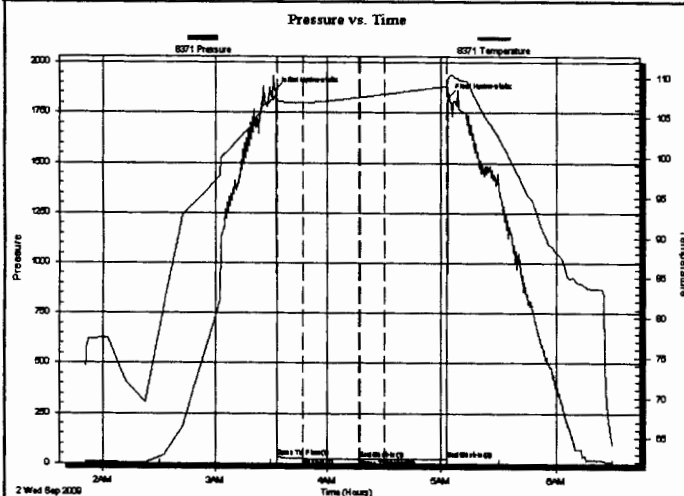
Time Off Btm: **2009.09.02 @ 05:03:57**

TEST COMMENT: **IFP - sur blow - died 8 min.**

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

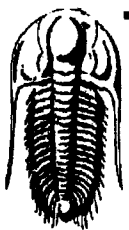
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.39	107.70	Initial Hydro-static
1	32.62	107.07	Open To Flow (1)
15	25.72	106.82	Shut-In(1)
45	24.41	107.49	End Shut-In(1)
45	23.39	107.50	Open To Flow (2)
58	22.97	107.89	Shut-In(2)
91	23.76	108.90	End Shut-In(2)
92	1826.56	110.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35216

DST#: 3

ATTN: Rich Bell

Test Start: 2009.09.02 @ 01:50:32

Tool Information

Drill Pipe:	Length: 3616.00 ft	Diameter: 3.80 inches	Volume: 50.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume: 51.33 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3744.00 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
Shut In Tool	5.00			3729.00	
Hydraulic tool	5.00			3734.00	
Packer	5.00			3739.00	20.00 Bottom Of Top Packer
Packer	5.00			3744.00	
Stubb	1.00			3745.00	
Perforations	1.00			3746.00	
Recorder	0.00	8018	Inside	3746.00	
Recorder	0.00	8371	Inside	3746.00	
Perforations	15.00			3761.00	
Bullnose	3.00			3764.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35216

DST#: 3

ATTN: Rich Bell

Test Start: 2009.09.02 @ 01:50:32

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

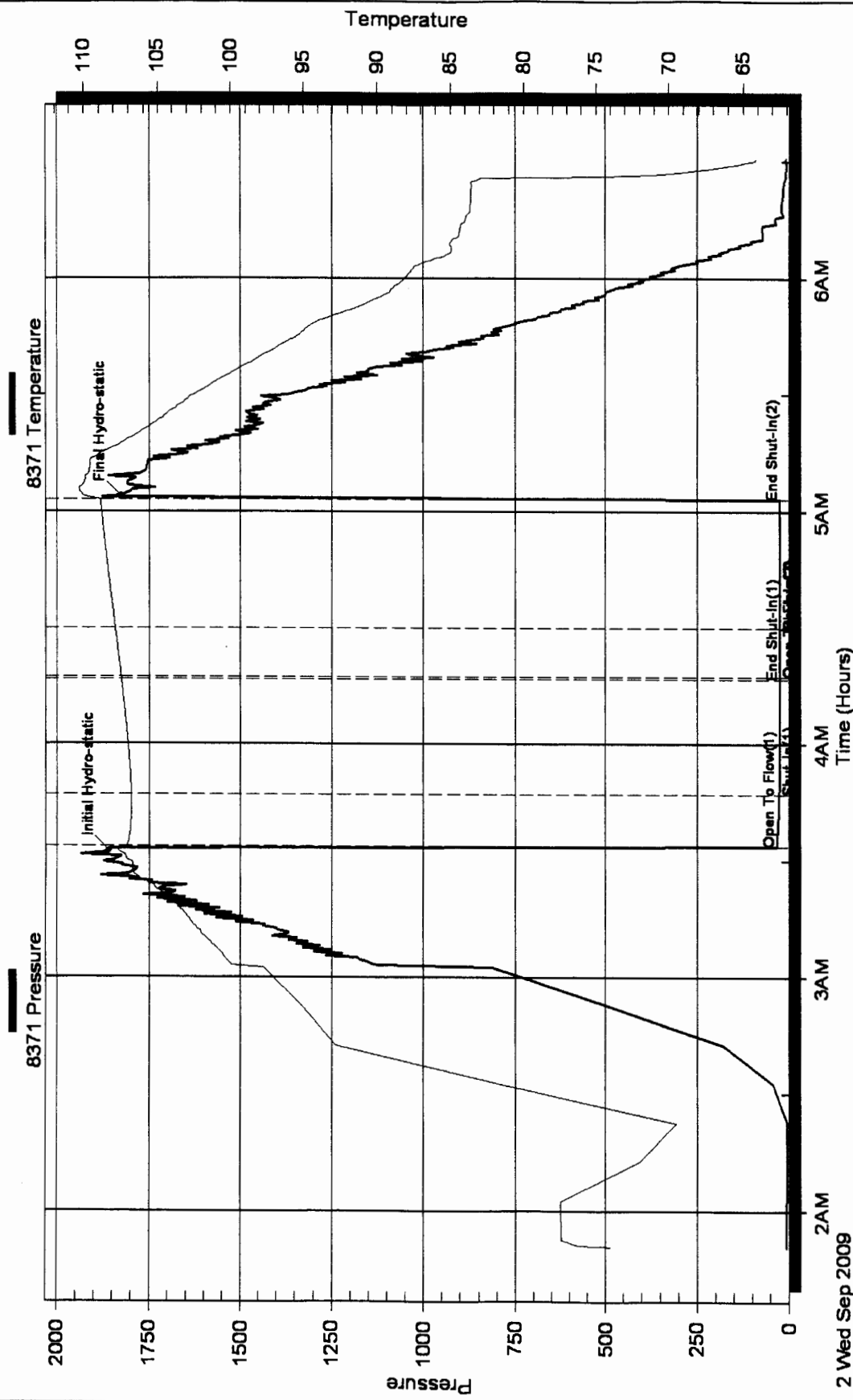
Serial #:

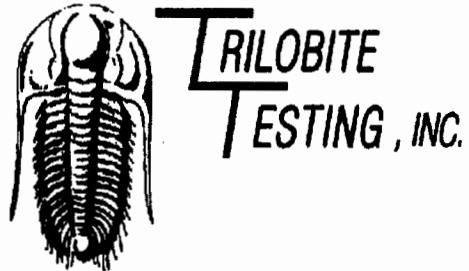
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, Ks
67646

ATTN: Rich Bell

13-7s-24w Graham KS

Couey #2-13

Start Date: 2009.09.02 @ 13:06:54

End Date: 2009.09.02 @ 18:48:48

Job Ticket #: 35217 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

PO Box 428
Logan, KS
67646

ATTN: Rich Bell

Couey #2-13

13-7s-24w Graham KS

Job Ticket: 35217

DST#: 4

Test Start: 2009.09.02 @ 13:06:54

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:19

Time Test Ended: 18:48:48

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3762.00 ft (KB) To 3784.00 ft (KB) (TVD)**

Total Depth: 3784.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2414.00 ft (KB)

2409.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: 1073.60 psig @ 3766.00 ft (KB)

Start Date: 2009.09.02

End Date:

2009.09.02

Capacity: 7000.00 psig

Last Calib.: 2009.09.02

Start Time: 13:06:54

End Time:

18:48:48

Time On Btm: 2009.09.02 @ 14:43:49

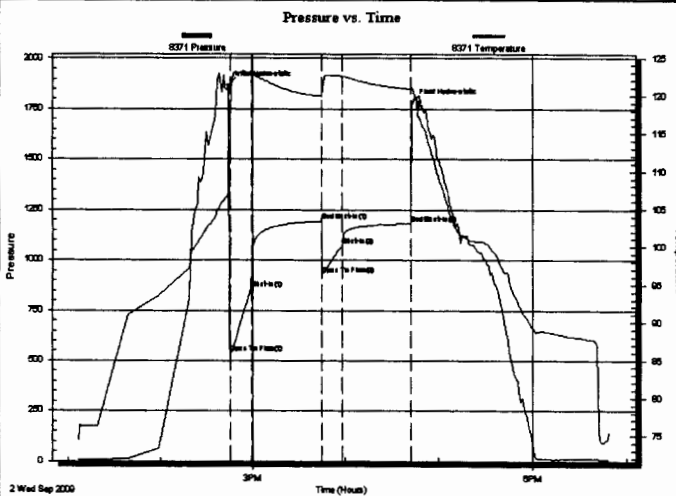
Time Off Btm: 2009.09.02 @ 16:43:19

TEST COMMENT: IFP - BOB 30 sec.

ISI - strong sur blow back - died 32 min.

FFP - BOB 30 sec.

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.21	107.09	Initial Hydro-static
2	537.02	117.06	Open To Flow (1)
15	856.88	122.78	Shut-In (1)
61	1194.05	119.92	End Shut-In (1)
62	931.16	119.85	Open To Flow (2)
75	1073.60	122.57	Shut-In (2)
119	1181.80	120.88	End Shut-In (2)
120	1785.20	120.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MV 95%W, 5%M	0.62
2049.00	reversed out	28.74
105.00	VSGOCWM 22%G, 3%O, 15%W, 60%M	1.47
1.00	FREE OIL TSTM	0.01
0.00	45' 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

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35217

DST#: 4

ATTN: Rich Bell

Test Start: 2009.09.02 @ 13:06:54

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	51.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3762.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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			3747.00	
Hydraulic tool	5.00			3752.00	
Packer	5.00			3757.00	20.00 Bottom Of Top Packer
Packer	5.00			3762.00	
Stubb	1.00			3763.00	
Perforations	3.00			3766.00	
Recorder	0.00	8018	Inside	3766.00	
Recorder	0.00	8371	Inside	3766.00	
Perforations	15.00			3781.00	
Bullnose	3.00			3784.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Couey #2-13

PO Box 428

13-7s-24w Graham KS

Logan, Ks

Job Ticket: 35217

DST#: 4

67646

ATTN: Rich Bell

Test Start: 2009.09.02 @ 13:06:54

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:

45000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MV 95%W, 5%M	0.624
2049.00	reversed out	28.742
105.00	VSGOCWM 22%G, 3%O, 15%W, 60%M	1.473
1.00	FREE OIL TSTM	0.014
0.00	45' GIP	0.000

Total Length: 2280.00 ft

Total Volume: 30.853 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

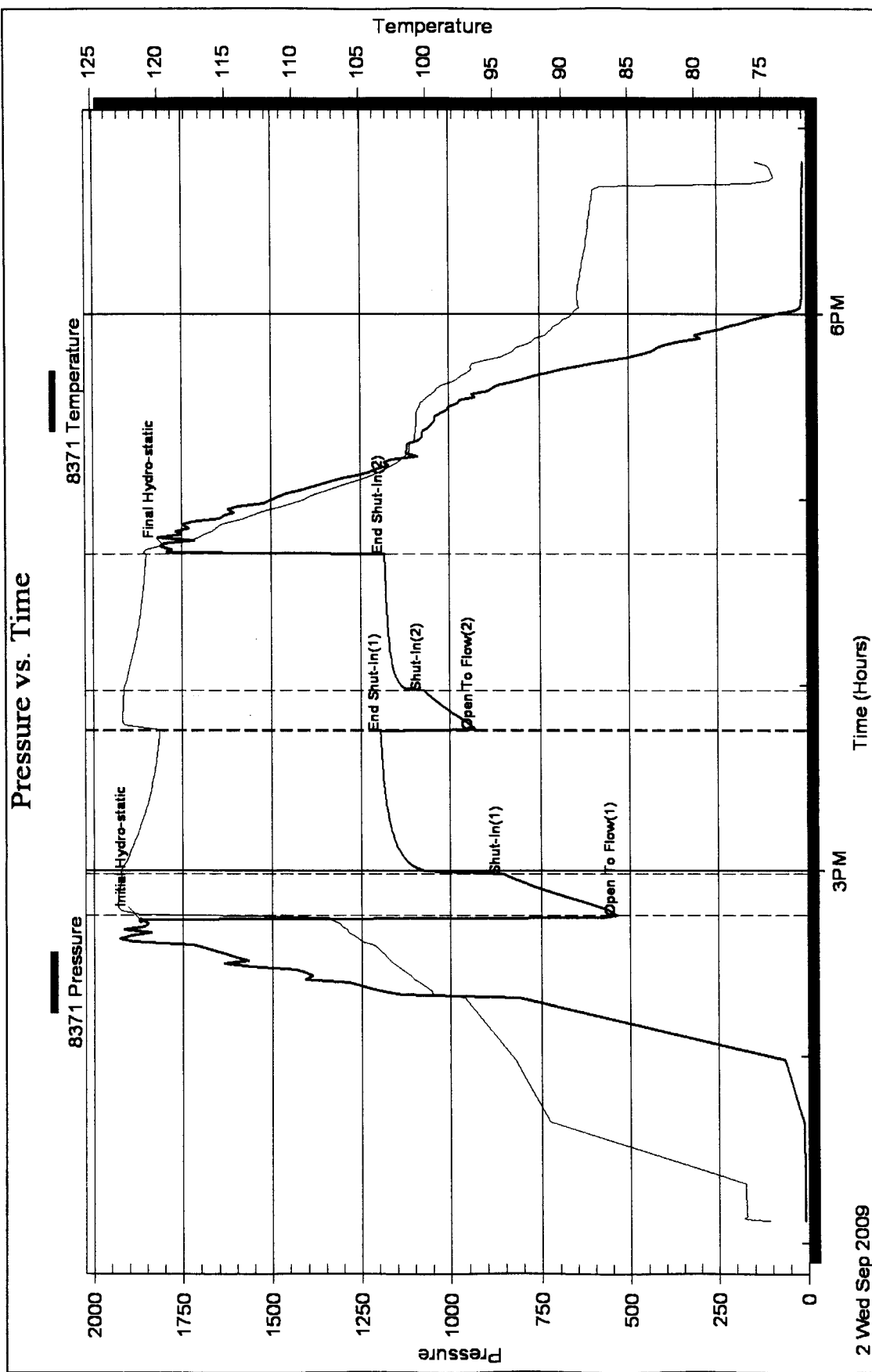
Serial #:

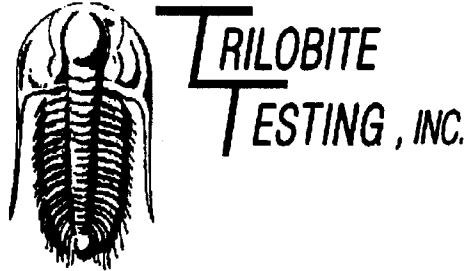
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .155 @ 77F = 45000 chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, Ks
67646

ATTN: Rich Bell

13-7s-24w Graham KS

Couey #2-13

Start Date: 2009.09.03 @ 05:37:09

End Date: 2009.09.03 @ 12:10:33

Job Ticket #: 35218 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 Company

PO Box 428
Logan, Ks
67646
ATTN: Rich Bell

Couey #2-13

13-7s-24w Graham KS

Job Ticket: 35218

DST#: 5

Test Start: 2009.09.03 @ 05:37:09

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:34

Time Test Ended: 12:10:33

Interval: **3853.00 ft (KB) To 3872.00 ft (KB) (TVD)**

Total Depth: 3872.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Reference Elevations: 2414.00 ft (KB)

2409.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: 89.81 psig @ 3854.00 ft (KB)

Start Date: 2009.09.03

End Date: 2009.09.03

Start Time: 05:37:09

End Time: 12:10:33

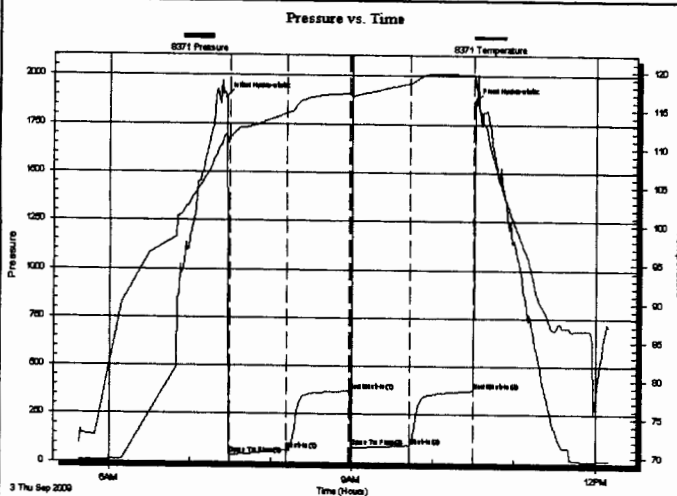
Capacity: 7000.00 psig

Last Calib.: 2009.09.03

Time On Btm: 2009.09.03 @ 07:26:04

Time Off Btm: 2009.09.03 @ 10:31:33

TEST COMMENT: IFP - BOB 27 min.
ISI - 1 1/2" blow back - died 36 min.
FFP - BOB 19 min.
FSI - 1" blow back - died 38 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.48	111.70	Initial Hydro-static
3	38.85	111.34	Open To Flow (1)
45	64.60	114.50	Shut-In (1)
92	369.74	117.06	End Shut-In (1)
93	83.66	116.72	Open To Flow (2)
137	89.81	118.45	Shut-In (2)
184	374.41	119.53	End Shut-In (2)
186	1869.02	118.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GHOCM 10%G, 35%O, 55%M	0.25
145.00	FREE OIL 95%O, 5%M	1.36
0.00	370' 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

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35218

DST#: 5

ATTN: Rich Bell

Test Start: 2009.09.03 @ 05:37:09

Tool Information

Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	53.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3853.00 ft			Final 49000.00 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
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3838.00	
Hydraulic tool	5.00			3843.00	
Packer	5.00			3848.00	20.00 Bottom Of Top Packer
Packer	5.00			3853.00	
Stubb	1.00			3854.00	
Recorder	0.00	8018	Inside	3854.00	
Recorder	0.00	8371	Inside	3854.00	
Perforations	15.00			3869.00	
Bullnose	3.00			3872.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Couey #2-13

PO Box 428

13-7s-24w Graham KS

Logan, Ks

Job Ticket: 35218

DST#: 5

67646

ATTN: Rich Bell

Test Start: 2009.09.03 @ 05:37:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	GHOCM 10%G, 35%O, 55%M	0.246
145.00	FREE OIL 95%O, 5%M	1.360
0.00	370' GIP	0.000

Total Length: 195.00 ft

Total Volume: 1.606 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

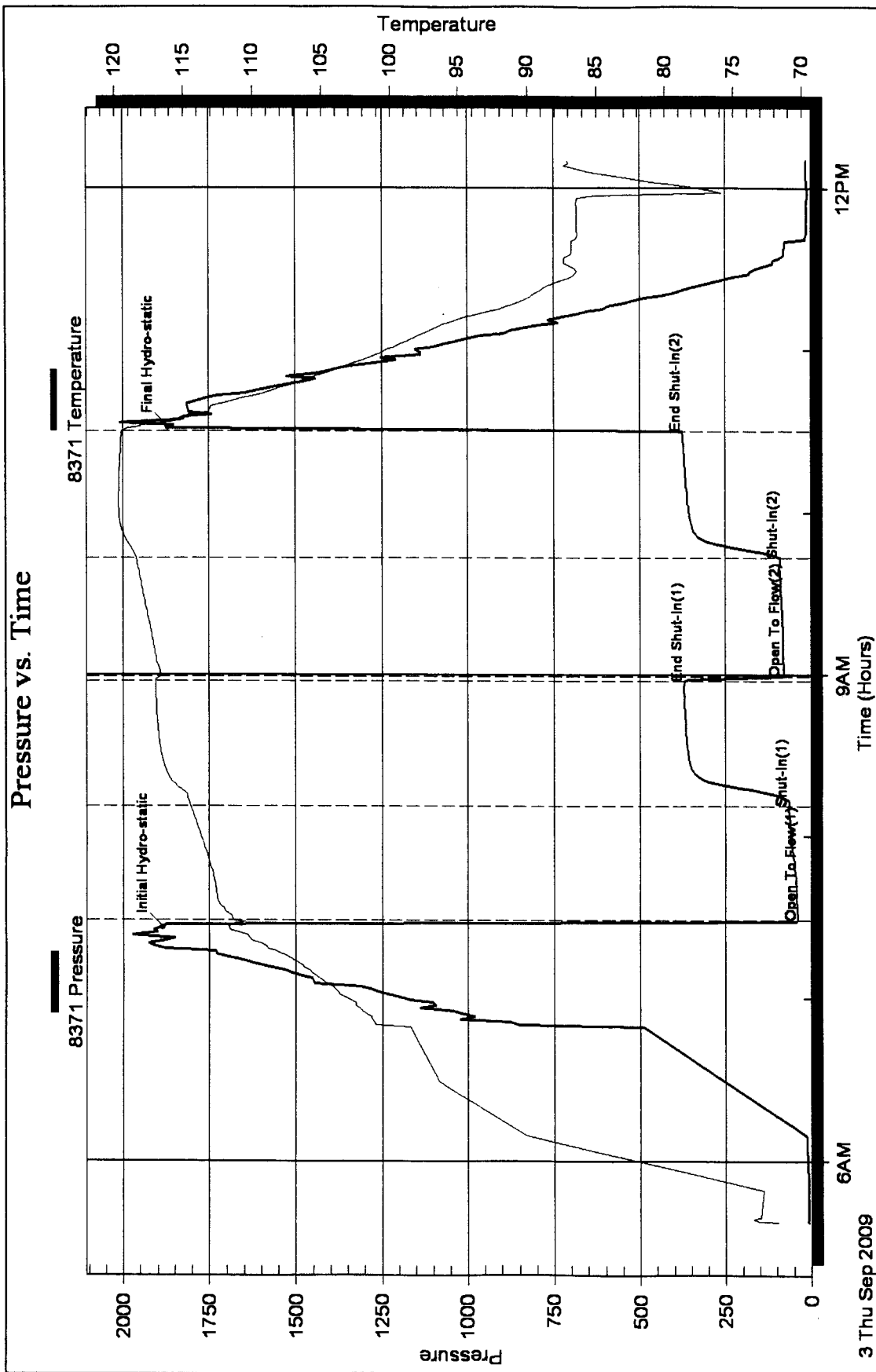
Serial #:

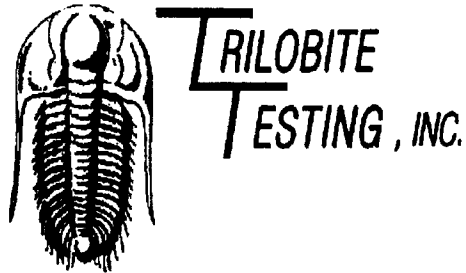
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, Ks
67646

ATTN: Rich Bell

13-7s-24w Graham KS

Couey #2-13

Start Date: 2009.09.03 @ 18:31:16

End Date: 2009.09.04 @ 00:14:40

Job Ticket #: 35219 DST #: 6

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: Rich Bell

Couey #2-13

13-7s-24w Graham KS

Job Ticket: 35219

DST#: 6

Test Start: 2009.09.03 @ 18:31:16

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:00:11

Time Test Ended: 00:14:40

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3870.00 ft (KB) To 3892.00 ft (KB) (TVD)**

Total Depth: **3892.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2414.00 ft (KB)**

2409.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371 **Inside**

Press@RunDepth: **227.23 psig @ 3874.00 ft (KB)**

Start Date: **2009.09.03**

End Date:

2009.09.04

Capacity: **7000.00 psig**

Last Calib.: **2009.09.04**

Start Time: **18:31:16**

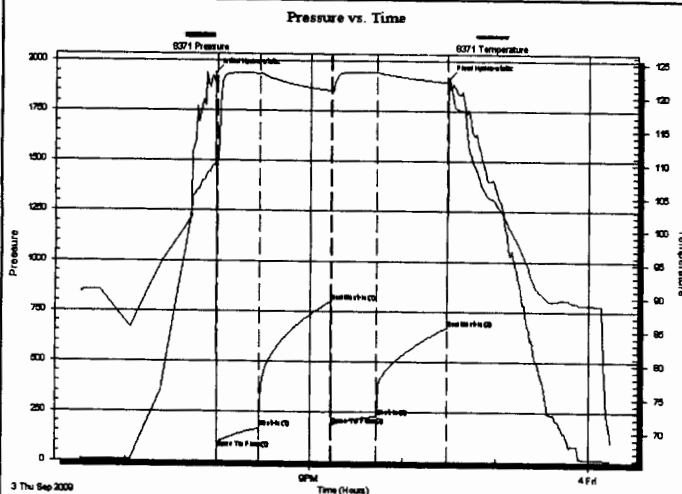
End Time:

00:14:40

Time On Btm: **2009.09.03 @ 19:59:11**

Time Off Btm: **2009.09.03 @ 22:29:41**

TEST COMMENT: IFP - BOB 6 min.
ISI - strong sur blow back - died 21 min.
FFP - BOB 16 min.
FSI - 1/4" blow back - died 34 min.



PRESSURE SUMMARY

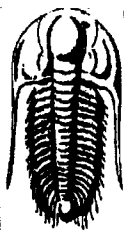
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.17	110.05	Initial Hydro-static
1	63.66	109.63	Open To Flow (1)
29	165.03	123.45	Shut-In(1)
75	795.85	120.95	End Shut-In(1)
75	184.09	120.58	Open To Flow (2)
104	227.23	123.63	Shut-In(2)
150	667.25	122.23	End Shut-In(2)
151	1912.56	122.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
305.00	MV 90%W, 10%M	3.15
125.00	VSOCWM 5%O, 10%W, 85%M	1.75
35.00	FREE OIL 95%O, 5%M	0.49
0.00	90' 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

Couey #2-13

PO Box 428
Logan, Ks
67646

13-7s-24w Graham KS

Job Ticket: 35219

DST#: 6

ATTN: Rich Bell

Test Start: 2009.09.03 @ 18:31:16

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	53.09 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3870.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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			3855.00	
Hydraulic tool	5.00			3860.00	
Packer	5.00			3865.00	20.00 Bottom Of Top Packer
Packer	5.00			3870.00	
Stubb	1.00			3871.00	
Perforations	3.00			3874.00	
Recorder	0.00	8018	Inside	3874.00	
Recorder	0.00	8371	Inside	3874.00	
Perforations	15.00			3889.00	
Bullnose	3.00			3892.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

Couey #2-13

PO Box 428

13-7s-24w Graham KS

Logan, Ks

Job Ticket: 35219

DST#: 6

67646

ATTN: Rich Bell

Test Start: 2009.09.03 @ 18:31:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

20 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
305.00	MW 90%W, 10%M	3.149
125.00	VSOCWM 5%O, 10%W, 85%M	1.753
35.00	FREE OIL 95%O, 5%M	0.491
0.00	90' GIP	0.000

Total Length: 465.00 ft

Total Volume:

5.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .167 @ 67F = 50000 chlorides

Pressure vs. Time

