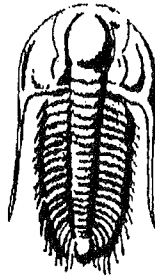


13-7s-24w

13



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan, KS 67646

CONFIDENTIAL

ATTN: Richard Bell

AUG 18 2009

13 7s 24w Graham KS **KCC**

Couey Unit #1-13

Start Date: 2009.07.07 @ 08:11:05

End Date: 2009.07.07 @ 14:35:59

Job Ticket #: 34696

DST #: 1

RECEIVED
AUG 26 2009
KCC WICHITA

15-065-23556

FW
37
8/26/09

Baird Oil Company LLC

Couey Unit #1-13

13 7s 24w Graham KS

DST # 1

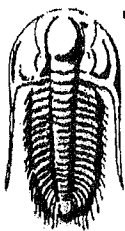
LKC "A"

2009.07.07

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34696

DST#: 1

Test Start: 2009.07.07 @ 08:11:05

GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:31:00

Time Test Ended: 14:35:59

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 3679.00 ft (KB) To 3698.00 ft (KB) (TVD)

Total Depth: 3698.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2399.00 ft (KB)

2394.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 110.50 psig @ 3680.00 ft (KB)

Start Date: 2009.07.07

End Date:

2009.07.07

Start Time: 08:11:05

End Time:

14:35:59

Capacity: 7000.00 psig

Last Calib.: 2009.07.07

Time On Btm: 2009.07.07 @ 09:27:30

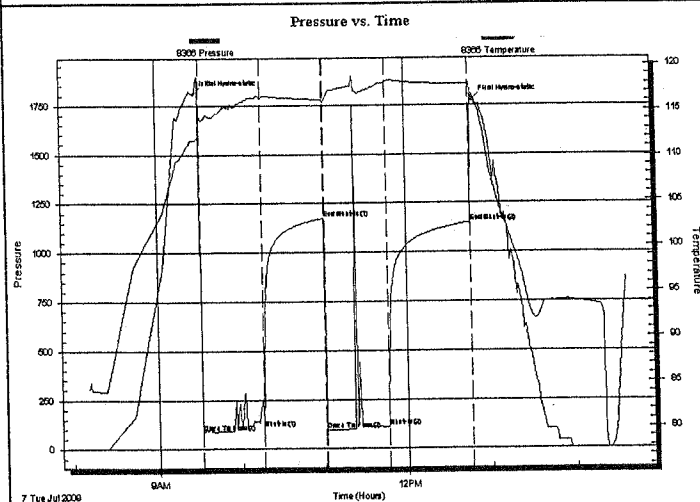
Time Off Btm: 2009.07.07 @ 12:48:59

TEST COMMENT: IF: Bled off surge blow, Blow built to 2 1/4" (Some tool Plugging)

ISI: Bled off, No blow back

FF: No blow @ 20 min., Flushed tool, Blow built to 1 1/2"

FSI: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1806.29	111.67	Initial Hydro-static
4	87.73	113.61	Open To Flow (1)
49	103.52	116.28	Shut-In(1)
93	1173.41	116.15	End Shut-In(1)
94	95.64	115.79	Open To Flow (2)
139	110.50	118.01	Shut-In(2)
199	1151.09	117.80	End Shut-In(2)
202	1771.11	116.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	SO/Muddy Water 53%w, 42%m, 5%o	0.60
92.00	SOCM 94%m, 6%o	1.29
1.00	Free 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

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34696

DST#: 1

ATTN: Richard Bell

Test Start: 2009.07.07 @ 08:11:05

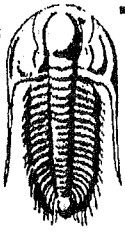
Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	28000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	56000.00 lb
		Total Volume:	50.26 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3679.00 ft			Final	39000.00 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 slid 5' before open & chased 10 to bottom @ open - Hole took about 20' of mud

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3664.00	
HYD S.I. Tool	5.00			3669.00	
Packer	5.00			3674.00	20.00
Packer	5.00			3679.00	Bottom Of Top Packer
Stubb	1.00			3680.00	
Recorder	0.00	8366	Inside	3680.00	
Recorder	0.00	8320	Inside	3680.00	
Perforations	15.00			3695.00	
Bullnose	3.00			3698.00	19.00
Total Tool Length:	39.00				Bottom Packers & Anchor



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34696

DST#: 1

ATTN: Richard Bell

Test Start: 2009.07.07 @ 08:11:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.34 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	SO/Muddy Water 53%w, 42%m, 5%o	0.600
92.00	SOCM 94%m, 6%o	1.291
1.00	Free Oil	0.014

Total Length: 215.00 ft

Total Volume: 1.895 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

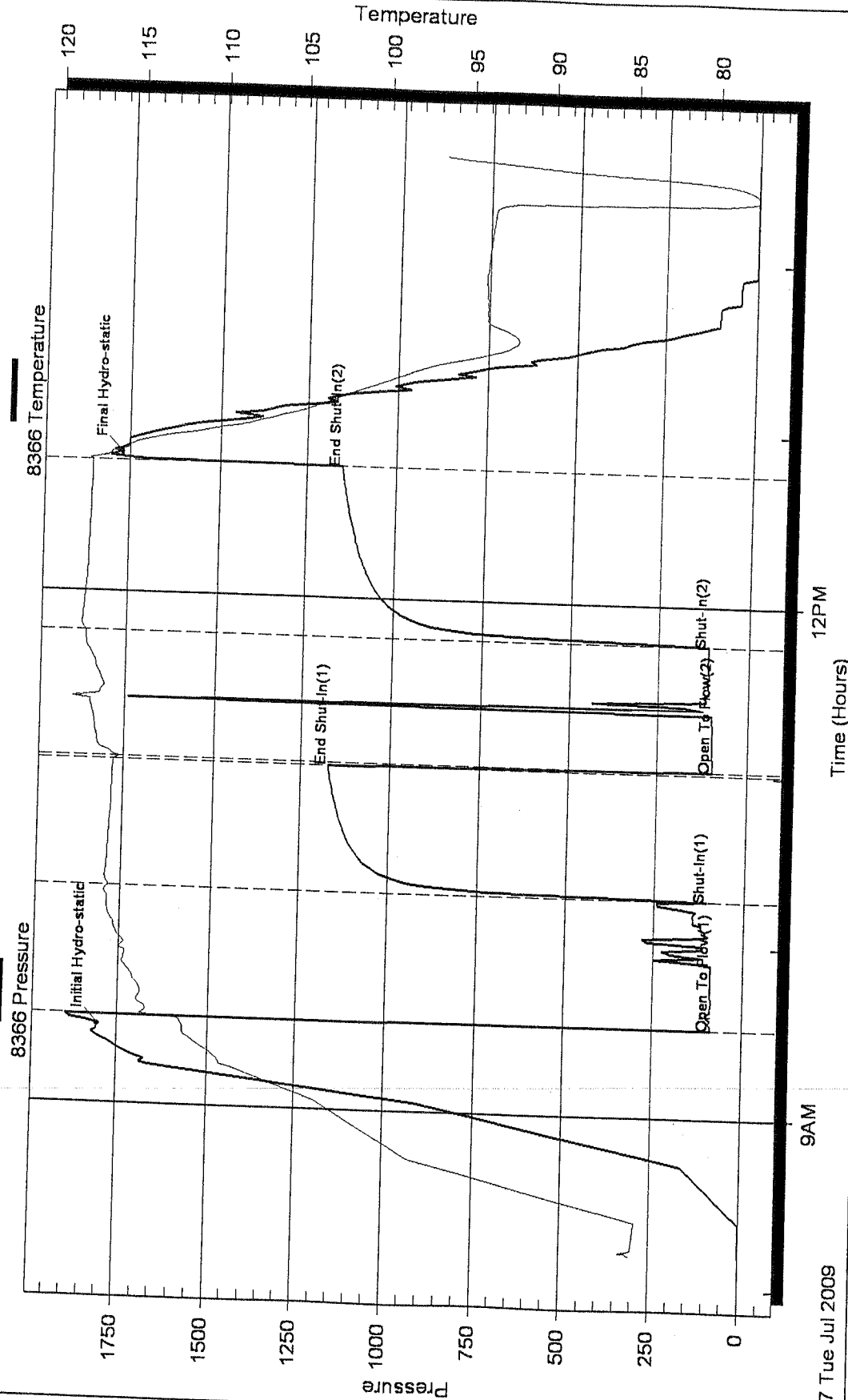
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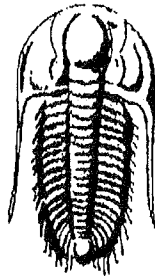
Baird Oil Company LLC

13 7s 24w Graham 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

ATTN: Richard Bell

13 7s 24w Graham KS

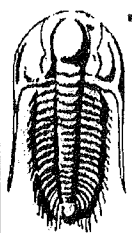
Couey Unit #1

Start Date: 2009.07.07 @ 20:35:00

End Date: 2009.07.08 @ 02:40:30

Job Ticket #: 34697 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 LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34697

DST#: 2

Test Start: 2009.07.07 @ 20:35:00

GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:05:00

Time Test Ended: 02:40:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 3707.00 ft (KB) To 3727.00 ft (KB) (TVD)

Total Depth: 3727.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2399.00 ft (KB)

2394.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 698.32 psig @ 3708.00 ft (KB)

Start Date: 2009.07.07

End Date: 2009.07.08

Capacity: 7000.00 psig

Last Calib.: 2009.07.08

Start Time: 20:35:05

End Time: 02:40:29

Time On Btm: 2009.07.07 @ 22:02:00

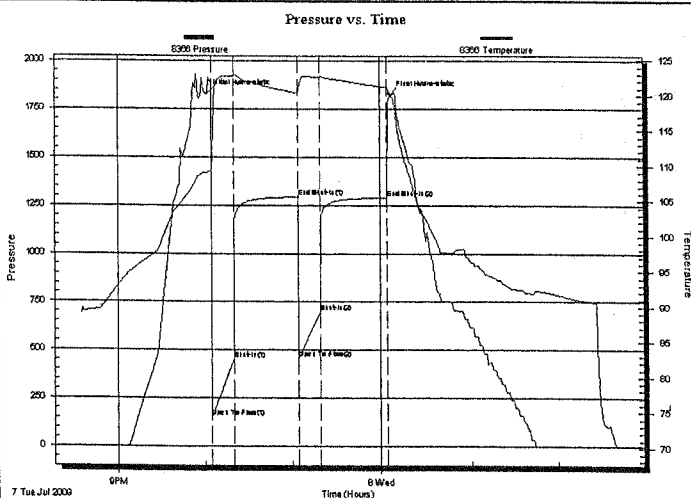
Time Off Btm: 2009.07.08 @ 00:06:30

TEST COMMENT: IF: Blow built to BOB in 1 1/2 min.

ISI: Bled off, Surface blow back from 36 min. to end of close

FF: Blow built to BOB in 1 1/2 min.

FSI: Bled off, @ 14 min. blow back started and built to 2 1/2"



PRESSURE SUMMARY

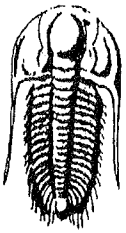
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.59	108.98	Initial Hydro-static
3	150.87	109.08	Open To Flow(1)
18	454.89	122.76	Shut-In(1)
63	1291.56	120.36	End Shut-In(1)
63	455.24	120.19	Open To Flow(2)
78	698.32	122.50	Shut-In(2)
123	1288.16	121.20	End Shut-In(2)
125	1823.57	120.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SO/WM 52%w, 42%w, 6%o	0.30
500.00	Water 97%w, 3%w, trace oil	6.45
500.00	SOMCW 92%w, 5%o, 3%w	7.01
400.00	OMCW 58%w, 12%w, 11%o, 19%g	5.61
30.00	SMWCO 61%o, 30%w, 5%w, 4%g	0.42
0.00	GIP = 65'	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

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34697

DST#: 2

ATTN: Richard Bell

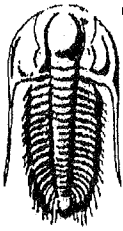
Test Start: 2009.07.07 @ 20:35:00

Tool Information

Drill Pipe:	Length: 3572.00 ft	Diameter: 3.80 inches	Volume: 50.11 bbl	Tool Weight: 1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 50.71 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3707.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3692.00	
HYD S.I. Tool	5.00			3697.00	
Packer	5.00			3702.00	20.00 Bottom Of Top Packer
Packer	5.00			3707.00	
Stubb	1.00			3708.00	
Recorder	0.00	8366	Inside	3708.00	
Recorder	0.00	8320	Inside	3708.00	
Perforations	16.00			3724.00	
Bullnose	3.00			3727.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34697

DST#: 2

ATTN: Richard Bell

Test Start: 2009.07.07 @ 20:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 26.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 78000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.33 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOMM 52% _m , 42% _w , 6% _o	0.295
500.00	Water 97% _w , 3% _m , trace oil	6.449
500.00	SOMCW 92% _w , 5% _o , 3% _m	7.014
400.00	OMCW 58% _w , 12% _m , 11% _o , 19% _g	5.611
30.00	SMWCO 61% _o , 30% _w , 5% _m , 4% _g	0.421
0.00	GIP = 65'	0.000

Total Length: 1490.00 ft Total Volume: 19.790 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .096 @ 71.2 deg F
Chlorides = 78,000 ppm

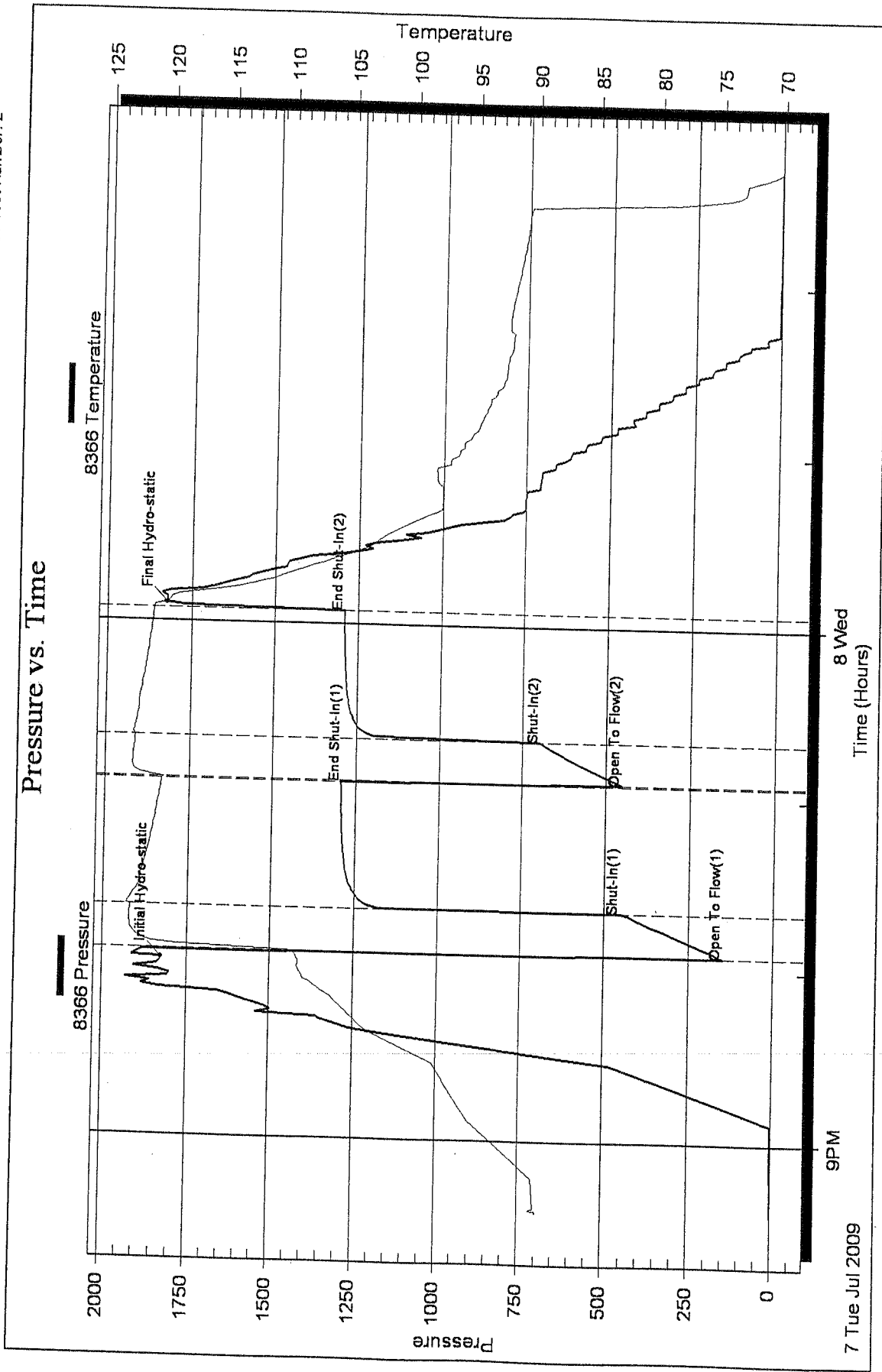
Serial #: 8366

Inside

Baird Oil Company LLC

13 7s 24w Graham KS

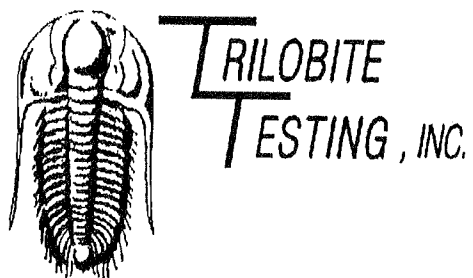
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 34697

Printed: 2009.07.13 @ 15:29:58 Page 5



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

13 7s 24w Graham KS

Couey Unit #1

Start Date: 2009.07.08 @ 08:30:00

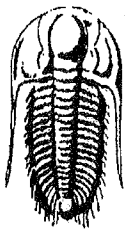
End Date: 2009.07.08 @ 15:07:00

Job Ticket #: 34698 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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34698

DST#: 3

Test Start: 2009.07.08 @ 08:30:00

GENERAL INFORMATION:

Formation: **LKC "D"**

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

Time Tool Opened: 10:01:00

Time Test Ended: 15:07:00

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **36**

Interval: **3726.00 ft (KB) To 3747.00 ft (KB) (TVD)**

Total Depth: **3747.00 ft (KB) (TVD)**

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

Reference Elevations: **2399.00 ft (KB)**

2394.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **571.33 psig @ 3727.00 ft (KB)**

Start Date: **2009.07.08**

End Date:

2009.07.08

Start Time: **08:30:05**

End Time:

15:06:59

Capacity: **7000.00 psig**

Last Calib.: **2009.07.08**

Time On Btm: **2009.07.08 @ 09:57:30**

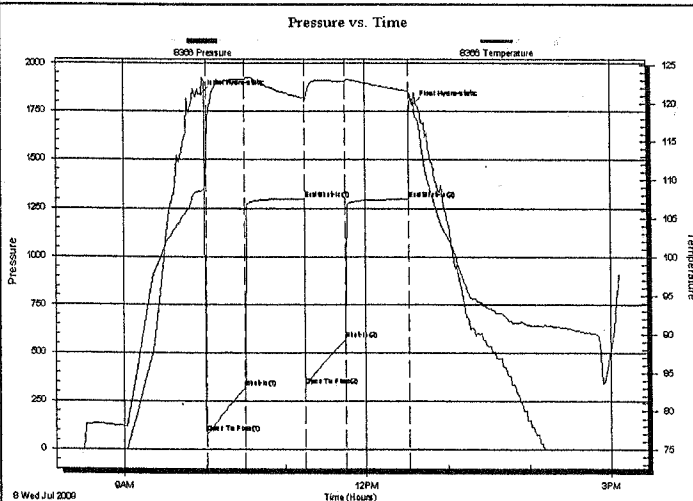
Time Off Btm: **2009.07.08 @ 12:35:30**

TEST COMMENT: IF: Blow built to BOB in 4 min.

ISI: Bled off, Blow back built to 4 1/2"

FF: Blow built to BOB in 4 1/2 min.

FSI Bled off, Blow back built to 1"+



PRESSURE SUMMARY

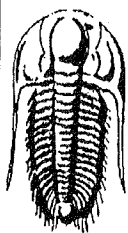
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.39	108.58	Initial Hydro-static
4	88.38	114.41	Open To Flow (1)
33	325.05	123.07	Shut-In (1)
78	1299.15	120.67	End Shut-In (1)
78	334.82	120.23	Open To Flow (2)
108	571.33	122.80	Shut-In (2)
155	1296.55	121.61	End Shut-In (2)
158	1789.22	120.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SO/Watery Mud 55%w, 42%w, 3%o	0.30
882.00	SOMCW 94%w, 4%w, 2%o	11.81
240.00	SO/GMCW 64%w, 16%w, 15%g, 5%o	3.37
30.00	SGM WCO 70%o, 20%w, 5%w, 5%g	0.42
0.00	RW = .85 ohms @ 97.8 deg F= 64,000 pp0.00	
0.00	150'+ 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 LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34698

DST#: 3

ATTN: Richard Bell

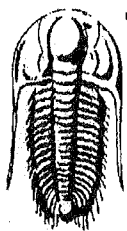
Test Start: 2009.07.08 @ 08:30:00

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight: 1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 51.13 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3726.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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S.I. Tool	5.00			3711.00	
HYD S.I. Tool	5.00			3716.00	
Packer	5.00			3721.00	20.00 Bottom Of Top Packer
Packer	5.00			3726.00	
Stubb	1.00			3727.00	
Recorder	0.00	8366	Inside	3727.00	
Recorder	0.00	8320	Inside	3727.00	
Perforations	17.00			3744.00	
Bullnose	3.00			3747.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34698 DST#: 3

ATTN: Richard Bell

Test Start: 2009.07.08 @ 08:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 64000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SO/Watery Mud 55% _m , 42% _w , 3% _o	0.295
882.00	SOMCW 94% _w , 4% _m , 2% _o	11.807
240.00	SO/GMCW 64% _w , 16% _m , 15% _g , 5% _o	3.367
30.00	SGM WCO 70% _o , 20% _w , 5% _m , 5% _g	0.421
0.00	RW = .85 ohms @ 97.8 deg F= 64,000 ppm	0.000
0.00	150'+ GIP	0.000

Total Length: 1212.00 ft Total Volume: 15.890 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

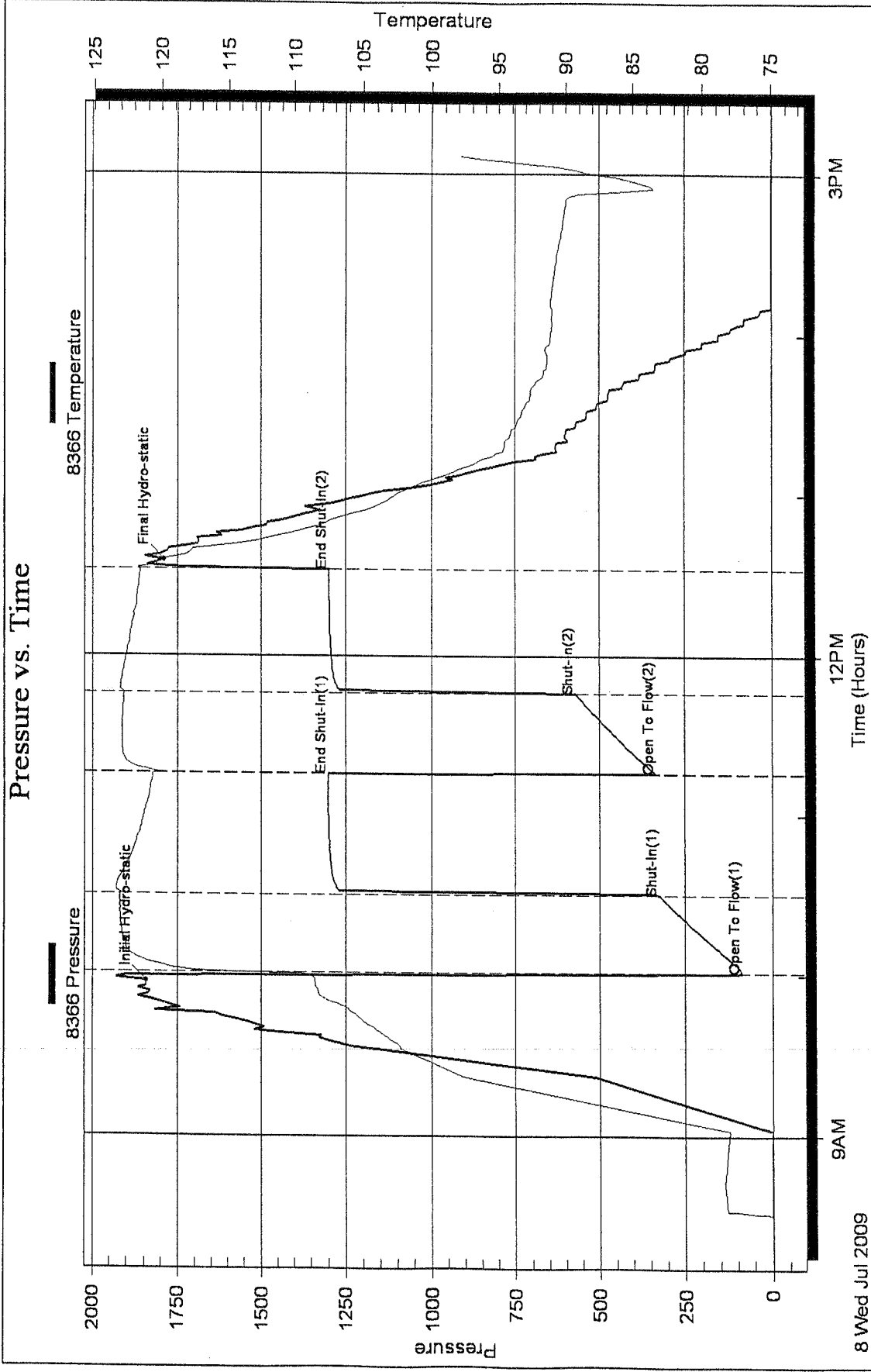
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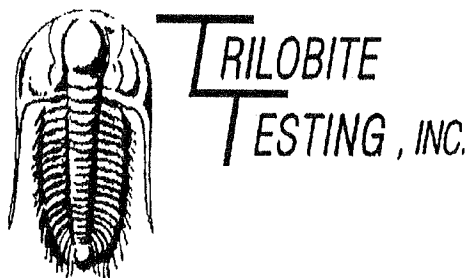
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

13 7s 24w Graham KS

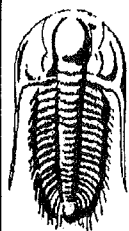
Couey Unit #1

Start Date: 2009.07.08 @ 20:55:00

End Date: 2009.07.09 @ 01:54:30

Job Ticket #: 34699 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 LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34699

DST#: 4

Test Start: 2009.07.08 @ 20:55:00

GENERAL INFORMATION:

Formation: **LKC "E - F"**

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

Time Tool Opened: 22:14:30

Time Test Ended: 01:54:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **36**

Interval: **3747.00 ft (KB) To 3767.00 ft (KB) (TVD)**

Total Depth: **3767.00 ft (KB) (TVD)**

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

Reference Elevations: **2399.00 ft (KB)**

2394.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **72.28 psig @ 3748.00 ft (KB)**

Start Date: **2009.07.08**

End Date:

2009.07.09

Capacity: **7000.00 psig**

Last Calib.: **2009.07.09**

Start Time: **20:55:05**

End Time:

01:54:29

Time On Btm: **2009.07.08 @ 22:12:00**

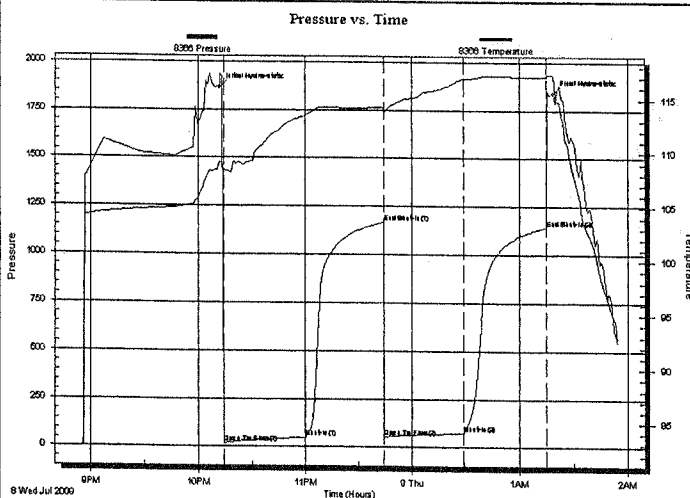
Time Off Btm: **2009.07.09 @ 01:18:30**

TEST COMMENT: IF: Blow built to 3"

ISI: Bled off, No blow back

FF: Blow built to 1"

FSI: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.69	109.16	Initial Hydro-static
3	16.28	108.45	Open To Flow (1)
48	50.07	113.51	Shut-In(1)
92	1166.21	114.21	End Shut-In(1)
93	54.17	113.61	Open To Flow (2)
137	72.28	116.91	Shut-In(2)
183	1143.14	117.10	End Shut-In(2)
187	1839.69	117.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OCWM 54% m, 36% w, 4% o, 6% g	0.30
61.00	OWCM 80% m, 14% w, 6% o	0.30
3.00	OMCW 46% w, 31% m, 21% o, 2% g	0.04
3.00	Oil 95% o, 5% m	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34699

DST#: 4

ATTN: Richard Bell

Test Start: 2009.07.08 @ 20:55:00

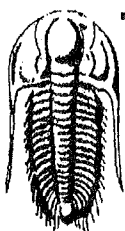
Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 bbl	Tool Weight:	1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	50000.00 lb
			Total Volume: 51.58 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3747.00 ft			Final	39000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3732.00	
HYDS.I. Tool	5.00			3737.00	
Packer	5.00			3742.00	20.00
Packer	5.00			3747.00	Bottom Of Top Packer
Stubb	1.00			3748.00	
Recorder	0.00	8366	Inside	3748.00	
Recorder	0.00	8320	Inside	3748.00	
Perforations	16.00			3764.00	
Bullnose	3.00			3767.00	20.00
					Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34699 DST#: 4

ATTN: Richard Bell

Test Start: 2009.07.08 @ 20:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.75 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	OCWM 54%m, 36%w, 4%o, 6%g	0.300
61.00	OWCM 80%m, 14%w, 6%o	0.300
3.00	OMCW 46%w, 31%m, 21%o, 2%g	0.042
3.00	Oil 95%o, 5%m	0.042

Total Length: 128.00 ft Total Volume: 0.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

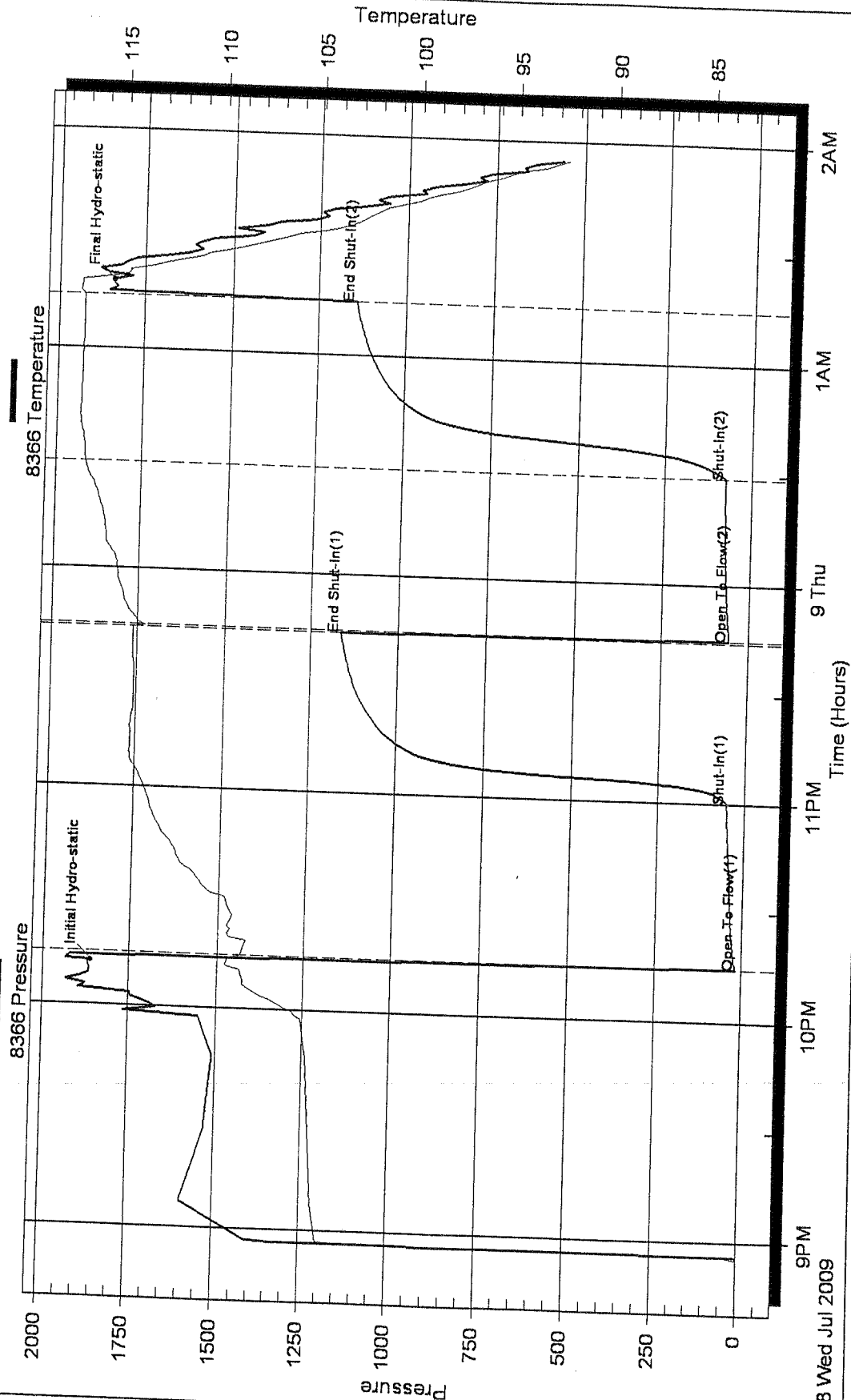
Inside

Baird Oil Company LLC

13 7s 24w Graham KS

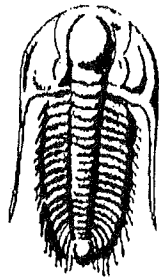
DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 34699



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

13 7s 24w Graham KS

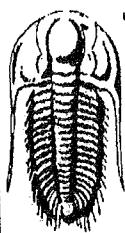
Couey Unit #1

Start Date: 2009.07.09 @ 10:53:00

End Date: 2009.07.09 @ 14:54:30

Job Ticket #: 34700 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 LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34700

DST#: 5

Test Start: 2009.07.09 @ 10:53:00

GENERAL INFORMATION:

Formation: LKC "H - I"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:30
Time Test Ended: 14:54:30

Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 36

Interval: 3794.00 ft (KB) To 3837.00 ft (KB) (TVD)
Total Depth: 3837.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2399.00 ft (KB)
2394.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 17.77 psig @ 3795.00 ft (KB)

Start Date: 2009.07.09

End Date:

2009.07.09

Start Time: 10:53:05

End Time:

14:54:30

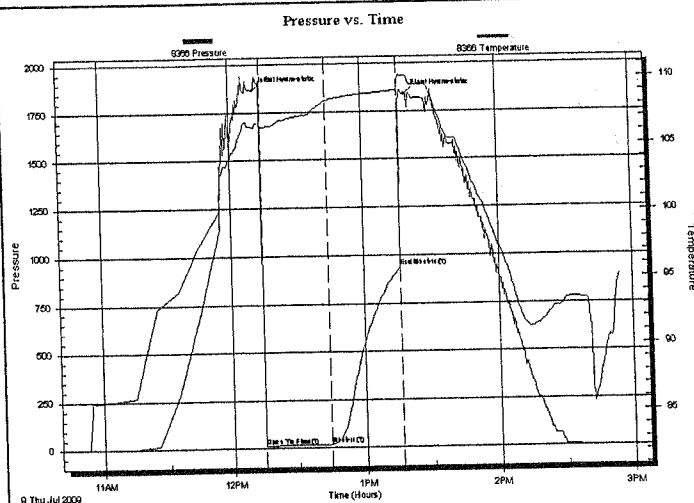
Capacity: 7000.00 psig

Last Calib.: 2009.07.09

Time On Btm: 2009.07.09 @ 12:11:30

Time Off Btm: 2009.07.09 @ 13:19:30

TEST COMMENT: IF: Weak surface blow from 6 min. to 10 min.
ISI: No blow back
Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.80	106.34	Initial Hydro-static
3	14.01	106.30	Open To Flow (1)
33	17.77	108.33	Shut-In (1)
65	939.56	109.07	End Shut-In (1)
68	1840.29	110.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/trace oil 100% m	0.02

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 Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34700

DST#: 5

ATTN: Richard Bell

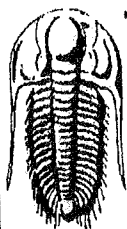
Test Start: 2009.07.09 @ 10:53:00

Tool Information

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 bbl	Tool Weight: 1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 52.01 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3794.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3779.00	
HYD S.I. Tool	5.00			3784.00	
Packer	5.00			3789.00	20.00
Packer	5.00			3794.00	Bottom Of Top Packer
Stubb	1.00			3795.00	
Recorder	0.00	8366	Inside	3795.00	
Recorder	0.00	8320	Inside	3795.00	
Perforations	5.00			3800.00	
Blank Spacing	32.00			3832.00	
Perforations	2.00			3834.00	
Bullnose	3.00			3837.00	43.00
Total Tool Length:	63.00				Bottom Packers & Anchor



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34700

DST#: 5

ATTN: Richard Bell

Test Start: 2009.07.09 @ 10:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.77 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /trace oil 100%m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

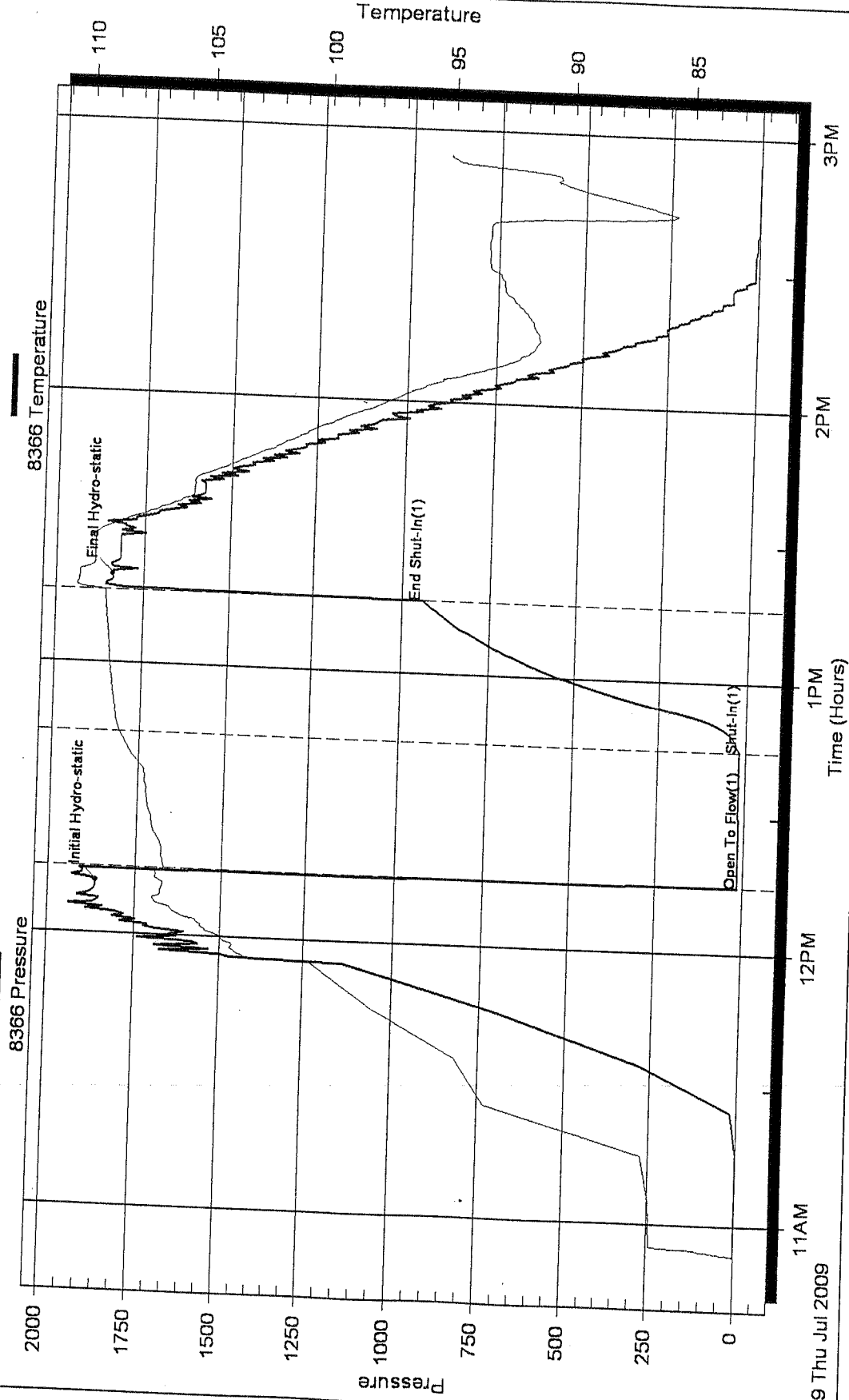
Inside

Baird Oil Company LLC

13 7s 24w Graham KS

DST Test Number: 5

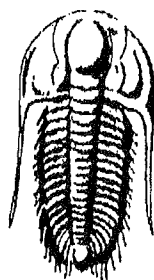
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 34700

Printed: 2009.07.13 @ 15:31:18 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

13 7s 24w Graham KS

Couey Unit #1

Start Date: 2009.07.09 @ 20:40:00

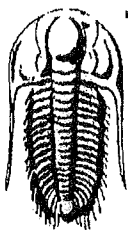
End Date: 2009.07.10 @ 02:36:30

Job Ticket #: 34501 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 LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34501

DST#: 6

Test Start: 2009.07.09 @ 20:40:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:00:00

Time Test Ended: 02:36:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **3836.00 ft (KB) To 3852.00 ft (KB) (TVD)**

Total Depth: 3852.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2399.00 ft (KB)

2394.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 105.38 psig @ 3837.00 ft (KB)

Start Date: 2009.07.09

End Date:

2009.07.10

Start Time:

20:40:05

End Time:

02:36:29

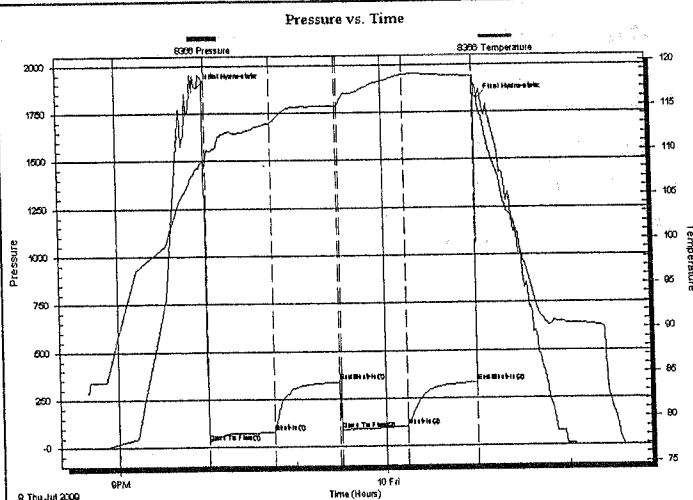
Capacity: 7000.00 psig

Last Calib.: 2009.07.10

Time On Btm: 2009.07.09 @ 21:55:30

Time Off Btm: 2009.07.10 @ 01:03:00

TEST COMMENT: IF: Blow built to BOB in 37 min.
IS: Bled off, Blowback built to 1/8", dead by 18 min.
FF: Blow built to 10"
FSI: Bled off, Blowback built to 1/4", dead by 16 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.81	108.05	Initial Hydro-static
5	25.71	108.90	Open To Flow (1)
50	80.47	113.08	Shut-In (1)
94	339.59	115.00	End Shut-In (1)
95	90.37	115.01	Open To Flow (2)
139	105.38	118.48	Shut-In (2)
185	332.00	118.26	End Shut-In (2)
188	1823.34	115.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OWCM 63% m, 17% w, 9% o, 11% g	0.30
61.00	OWCM 67% m, 14% o, 13% w, 6% g	0.30
30.00	WCOM 50% m, 40% o, 5% w, 5% g	0.42
75.00	Oil 88% o, 10% g, 2% m	1.05
0.00	Gravity = 32 api @ 78 deg F	0.00
0.00	Corrected Gravity = 30.2 api	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

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34501

DST#: 6

ATTN: Richard Bell

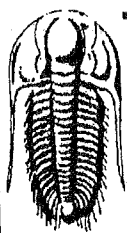
Test Start: 2009.07.09 @ 20:40:00

Tool Information

Drill Pipe:	Length: 3698.00 ft	Diameter: 3.80 inches	Volume: 51.87 bbl	Tool Weight: 1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 52.47 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3836.00 ft			Final 40000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3821.00	
HYD S.I. Tool	5.00			3826.00	
Packer	5.00			3831.00	20.00
Packer	5.00			3836.00	Bottom Of Top Packer
Stubb	1.00			3837.00	
Recorder	0.00	8366	Inside	3837.00	
Recorder	0.00	8320	Inside	3837.00	
Perforations	12.00			3849.00	
Bullnose	3.00			3852.00	16.00
Total Tool Length:	36.00				Bottom Packers & Anchor



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34501

DST#: 6

ATTN: Richard Bell

Test Start: 2009.07.09 @ 20:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 6.77 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 30.2 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	OWCM 63% _m , 17% _w , 9% _o , 11% _g	0.300
61.00	OWCM 67% _m , 14% _o , 13% _w , 6% _g	0.300
30.00	WCOM 50% _m , 40% _o , 5% _w , 5% _g	0.421
75.00	Oil 88% _o , 10% _g , 2% _m	1.052
0.00	Gravity = 32 api @ 78 deg F	0.000
0.00	Corrected Gravity = 30.2 api	0.000

Total Length: 227.00 ft Total Volume: 2.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

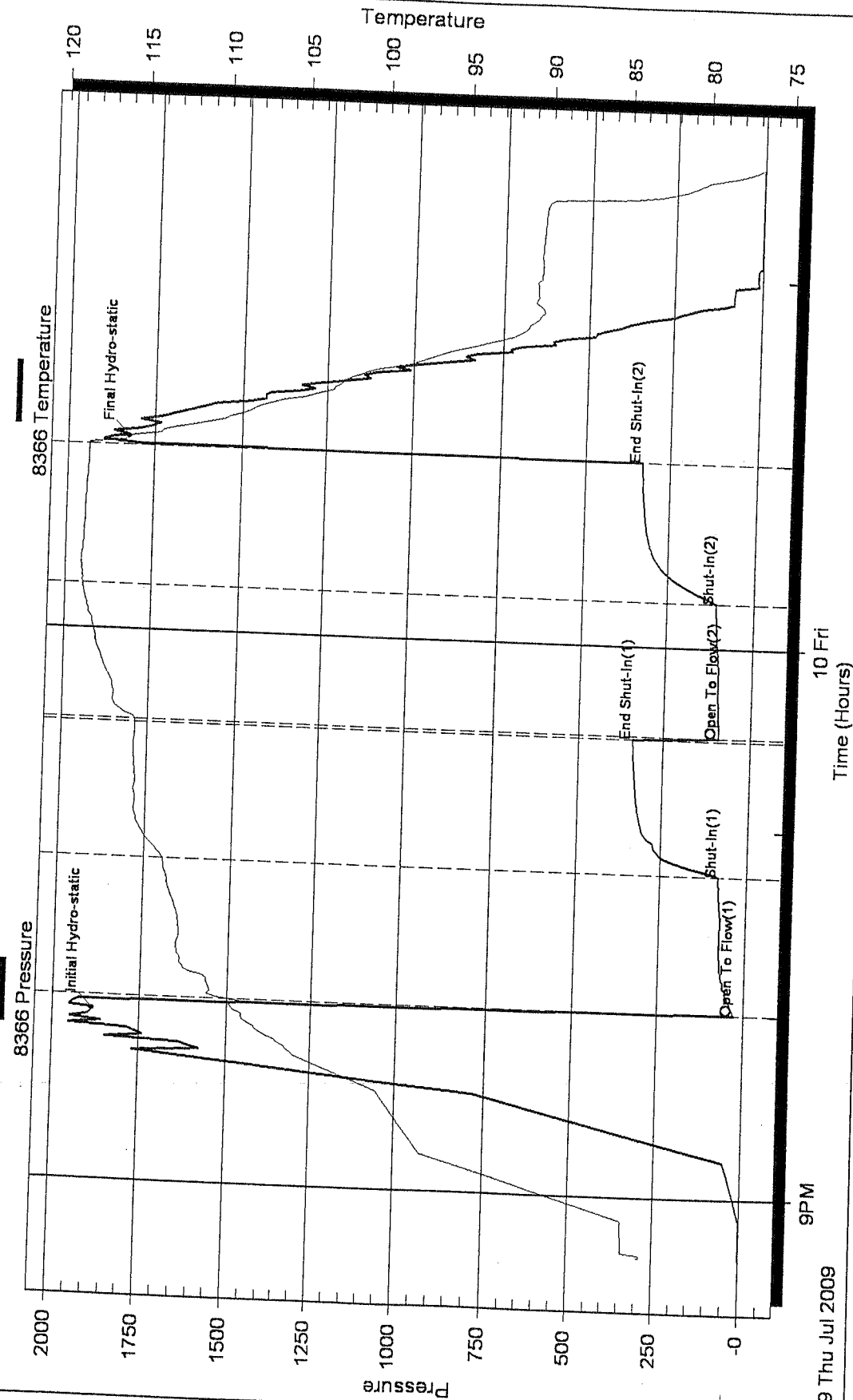
Inside

Baird Oil Company LLC

13 7s 24w Graham KS

DST Test Number: 6

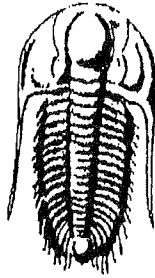
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 34501

Printed: 2009.07.13 @ 15:31:48 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

13 7s 24w Graham KS

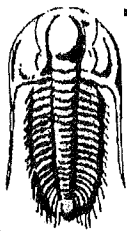
Couey Unit #1

Start Date: 2009.07.10 @ 08:32:00

End Date: 2009.07.10 @ 14:38:30

Job Ticket #: 34502 DST #: 7

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Couey Unit #1

13 7s 24w Graham KS

Job Ticket: 34502

DST#: 7

Test Start: 2009.07.10 @ 08:32:00

GENERAL INFORMATION:

Formation: **LKC "K"**

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

Time Tool Opened: 10:02:00

Time Test Ended: 14:38:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **36**

Interval: **3850.00 ft (KB) To 3872.00 ft (KB) (TVD)**

Total Depth: **3872.00 ft (KB) (TVD)**

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

Reference Elevations: **2399.00 ft (KB)**

2394.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **81.63 psig @ 3851.00 ft (KB)**

Start Date: **2009.07.10**

End Date:

2009.07.10

Start Time: **08:32:05**

End Time:

14:38:29

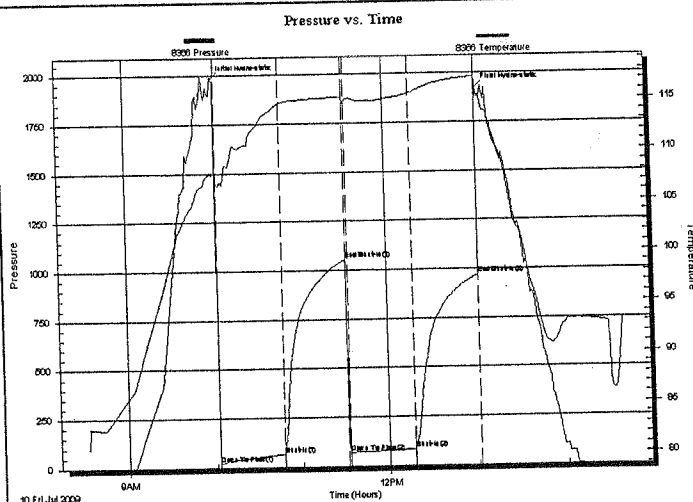
Capacity: **7000.00 psig**

Last Calib.: **2009.07.10**

Time On Btm: **2009.07.10 @ 10:00:00**

Time Off Btm: **2009.07.10 @ 13:02:00**

TEST COMMENT: IF: Blow built to 4 1/2"
IS: Bled off, No blow back
FF: Blow started @ 19 min., built to 1 1/4"
FSI: Bled off, No blow back



PRESSURE SUMMARY

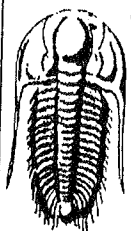
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.25	107.70	Initial Hydro-static
2	17.03	107.03	Open To Flow (1)
47	64.79	114.68	Shut-In(1)
92	1053.00	115.32	End Shut-In(1)
93	68.41	114.77	Open To Flow(2)
137	81.63	115.56	Shut-In(2)
181	969.66	117.22	End Shut-In(2)
182	1923.65	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	MCW w/trace oil 67%w, 35%m, 8%g	0.30
61.00	MW w/trace oil 67%w, 42%m, 1%o	0.30
20.00	OCWM 45%m, 44%w, 9%o, 2%g	0.28
10.00	Oil 96%o, 2%g, 2%m	0.14
0.00	Gravity = 30.6 api @ 92 deg F = 27.4 api	0.00
0.00	RW = .140 @ 93.8 deg F = 39,000 ppm	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 Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34502

DST#: 7

ATTN: Richard Bell

Test Start: 2009.07.10 @ 08:32:00

Tool Information

Drill Pipe:	Length: 3727.00 ft	Diameter: 3.80 inches	Volume: 52.28 bbl	Tool Weight:	1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	52000.00 lb
		Total Volume:	52.88 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3850.00 ft			Final	39000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3835.00	
HYD S.I. Tool	5.00			3840.00	
Packer	5.00			3845.00	20.00
Packer	5.00			3850.00	Bottom Of Top Packer
Stubb	1.00			3851.00	
Recorder	0.00	8366	Inside	3851.00	
Recorder	0.00	8320	Inside	3851.00	
Perforations	18.00			3869.00	
Bullnose	3.00			3872.00	22.00
Total Tool Length:	42.00				Bottom Packers & Anchor



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Couey Unit #1

PO Box 428
Logan, KS 67646

13 7s 24w Graham KS

Job Ticket: 34502 DST#: 7

ATTN: Richard Bell

Test Start: 2009.07.10 @ 08:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API: 27.4 deg API

Water Salinity: 39000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	MCW w/trace oil 67%w, 35%m, 8%g	0.300
61.00	MW w/trace oil 67%w, 42%m, 1%o	0.300
20.00	OCWM 45%m, 44%w, 9%o, 2%g	0.281
10.00	Oil 96%o, 2%g, 2%m	0.140
0.00	Gravity = 30.6 api @ 92 deg F = 27.4 api	0.000
0.00	RW = .140 @ 93.8 deg F = 39,000 ppm	0.000

Total Length: 152.00 ft

Total Volume: 1.021 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

Inside

Baird Oil Company LLC

13 7s 24w Graham KS

DST Test Number: 7

Pressure vs. Time

