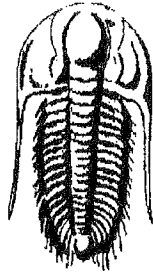


15-163-23759

17-75-19w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

113 W. Main
P.O. Box 428
Logan, KS 67646

ATTN: Richard Bell

17 7 19 Rooks KS

Witmer #1-17

Start Date: 2008.08.22 @ 04:55:00

End Date: 2008.08.22 @ 10:53:30

Job Ticket #: 32150 DST #: 1

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WICHITA, KS

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

Baird Oil Company LLC

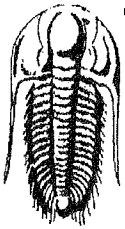
Witmer #1-17

17 7 19 Rooks KS

DST # 1

Toronto - Lans. "A"

2008.08.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Company LLC

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

Witmer #1-17

17 7 19 Rooks KS

Job Ticket: 32150

DST#: 1

Test Start: 2008.08.22 @ 04:55:00

GENERAL INFORMATION:

Formation: **Toronto - Lans. "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:07:30

Time Test Ended: 10:53:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **3162.00 ft (KB) To 3215.00 ft (KB) (TVD)**

Total Depth: 3215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2013.00 ft (KB)

2008.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 592.13 psig @ 3163.00 ft (KB)

Start Date: 2008.08.22

End Date: 2008.08.22

Capacity: 7000.00 psig

Last Calib.: 2008.08.22

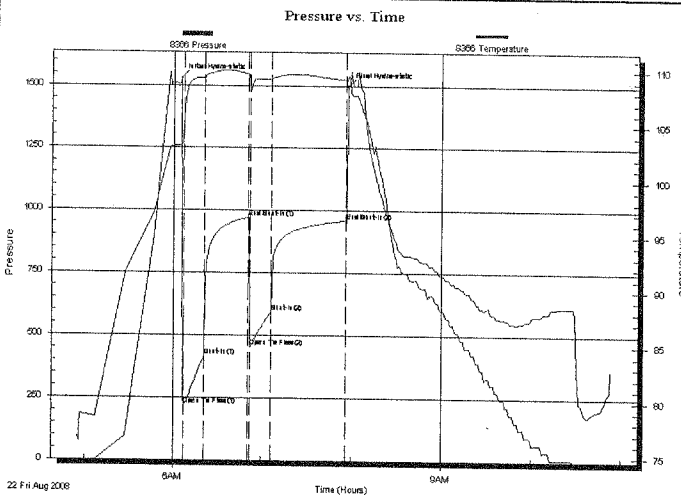
Start Time: 04:55:05

End Time: 10:53:29

Time On Btm: 2008.08.22 @ 06:05:30

Time Off Btm: 2008.08.22 @ 07:57:00

TEST COMMENT: IF: Blow built to BOB in 50 sec
IS: Bled off for 3 1/2 min., Blow back to BOB 11 min. into close
FF: Blow built to BOB in 1 min. 15 sec.
FSI: Bled off for 2 min. Blow back to BOB in 11 min



PRESSURE SUMMARY

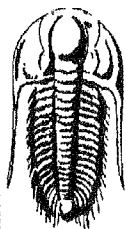
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.90	103.26	Initial Hydro-static
2	220.77	105.65	Open To Flow (1)
16	414.11	109.30	Shut-In (1)
46	971.37	109.71	End Shut-In (1)
47	452.50	109.05	Open To Flow (2)
61	592.13	109.23	Shut-In (2)
111	959.92	109.17	End Shut-In (2)
112	1497.98	109.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
138.00	GMCO 53%o, 27%m, 20%g	0.82
1427.00	SMCGO 86%o, 9%g, 5%m	20.02
0.00	1054' GIP	0.00
0.00	Gravity = 35.6 api @ 90 deg F	0.00
0.00	Corrected Gravity = 32.6 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

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32150 **DST#: 1**
Test Start: 2008.08.22 @ 04:55:00

Tool Information

Drill Pipe:	Length: 3043.00 ft	Diameter: 3.80 inches	Volume: 42.69 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume: 43.29 bbl		Tool Chased	1.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3162.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	73.00 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			3147.00	
Hydraulic tool	5.00			3152.00	
Packer	5.00			3157.00	20.00 Bottom Of Top Packer
Packer	5.00			3162.00	
Stubb	1.00			3163.00	
Recorder	0.00	8366	Inside	3163.00	
Recorder	0.00	8320	Inside	3163.00	
Perforations	14.00			3177.00	
Blank Spacing	33.00			3210.00	
Perforations	2.00			3212.00	
Bullnose	3.00			3215.00	53.00 Bottom Packers & Anchor

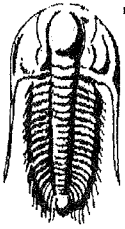
Total Tool Length: 73.00

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32150 **DST#: 1**
Test Start: 2008.08.22 @ 04:55:00

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:	ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
138.00	GMCO 53%o, 27%m, 20%g	0.815
1427.00	SMCGO 86%o, 9%g, 5%m	20.017
0.00	1054' GIP	0.000
0.00	Gravity = 35.6 api @ 90 deg F	0.000
0.00	Corrected Gravity = 32.6 api	0.000

Total Length: 1565.00 ft Total Volume: 20.832 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

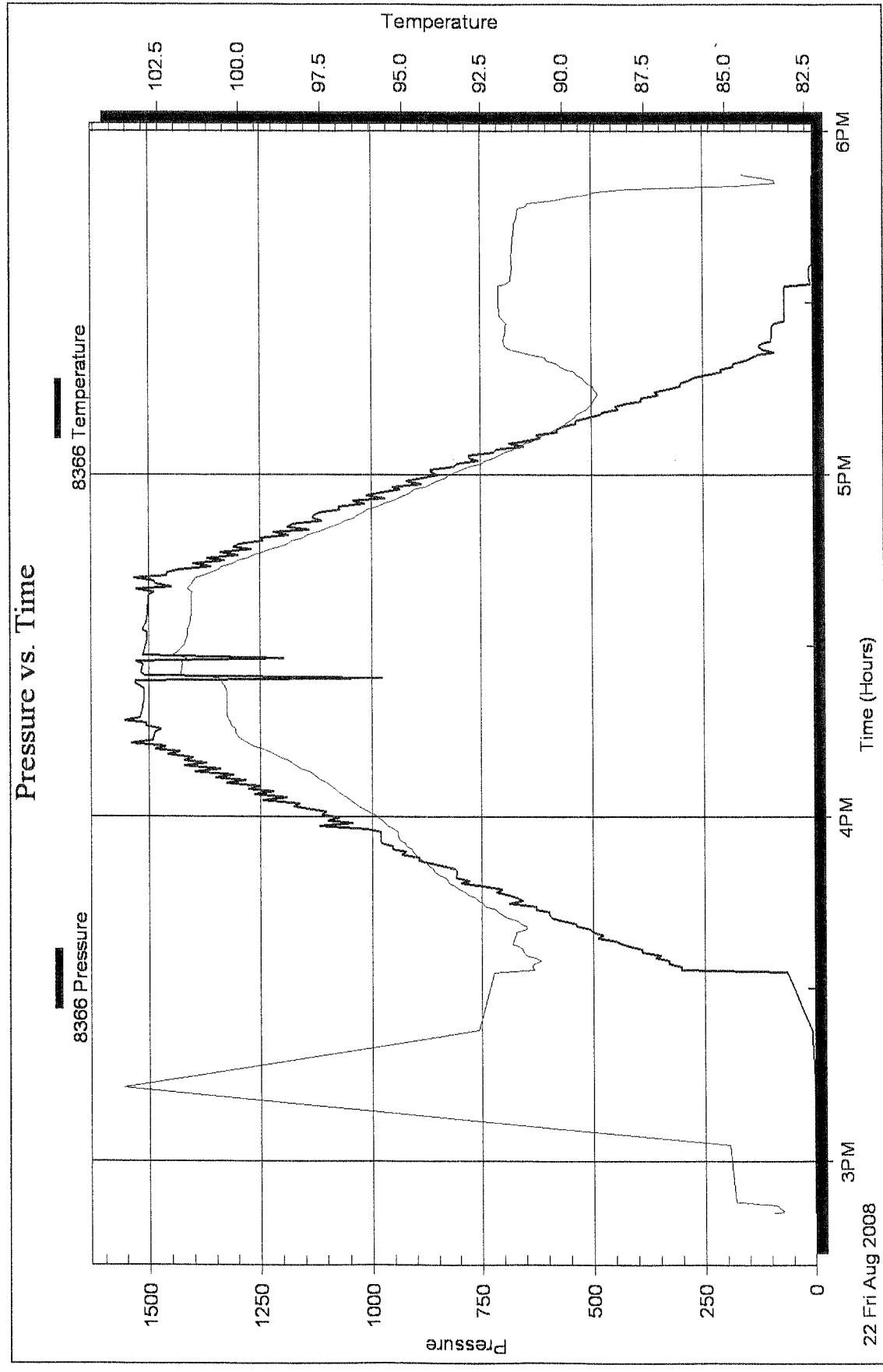
Serial #: 8366

Inside

Baird Oil Company LLC

17 7 19 Rooks KS

DST Test Number: 1



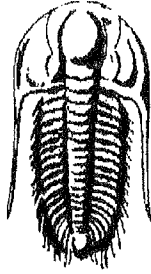
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Ref. No: 32150

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

113 W. Main
P.O. Box 428
Logan, KS 67646

ATTN: Richard Bell

17 7 19 Rooks KS

Witmer #1-17

Start Date: 2008.08.22 @ 04:55:00

End Date: 2008.08.22 @ 00:00:00

Job Ticket #: 32226 DST #: 2

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

Baird Oil Company LLC

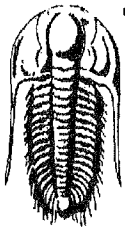
Witmer #1-17

17 7 19 Rooks KS

DST # 2

LKC "A"

2008.08.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

Job Ticket: 32226

DST#: 2

Test Start: 2008.08.22 @ 04:55:00

Tool Information

Drill Pipe:	Length: 3075.00 ft	Diameter: 3.80 inches	Volume: 43.13 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 42000.00 lb
		<u>Total Volume:</u>	<u>43.73 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3193.00 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:

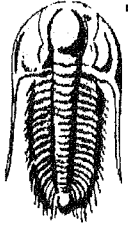
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3178.00	
Hydraulic tool	5.00			3183.00	
Packer	5.00			3188.00	20.00 Bottom Of Top Packer
Packer	5.00			3193.00	
Stubb	1.00			3194.00	
Recorder	0.00	8366	Inside	3194.00	
Recorder	0.00	8320	Inside	3194.00	
Perforations	18.00			3212.00	
Bullnose	3.00			3215.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32226 **DST#: 2**
Test Start: 2008.08.22 @ 04:55:00

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:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
230.00	Mud 100%	2.106

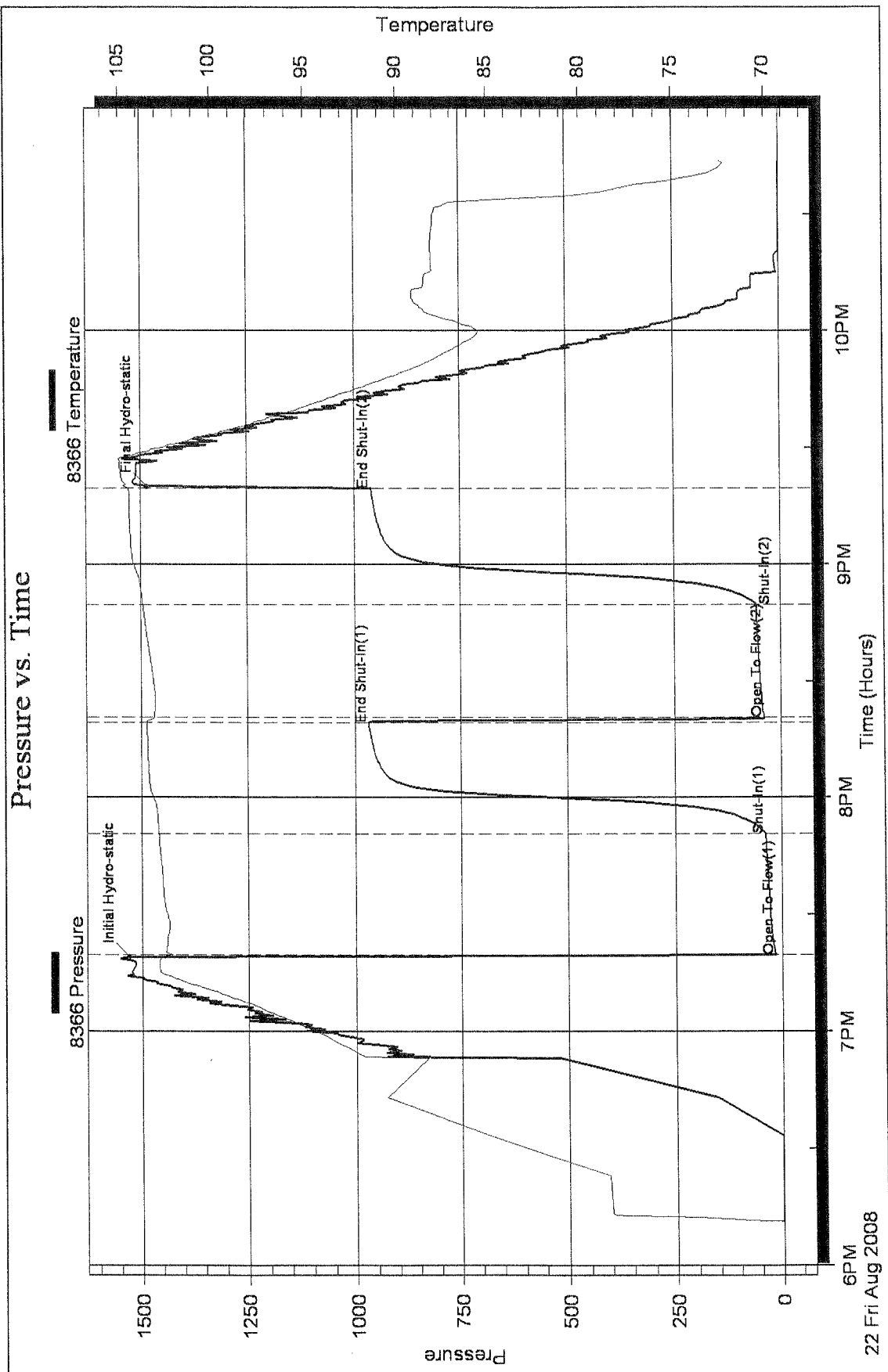
Total Length: 230.00 ft Total Volume: 2.106 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

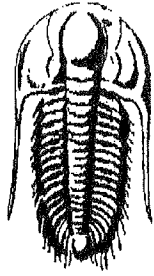
Pressure vs. Time



Ref. No: 32226

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

113 W. Main
P.O. Box 428
Logan, KS 67646

ATTN: Richard Bell

17 7 19 Rooks KS

Witmer #1-17

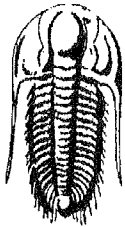
Start Date: 2008.08.22 @ 18:11:00

End Date: 2008.08.22 @ 22:43:30

Job Ticket #: 32227 DST #: 3

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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

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

Job Ticket: 32227 **DST#: 3**
Test Start: 2008.08.22 @ 18:11:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:19:30

Time Test Ended: 22:43:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 3190.00 ft (KB) To 3215.00 ft (KB) (TVD)

Total Depth: 3215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2013.00 ft (KB)

2008.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press@RunDepth: 57.65 psig @ 3194.00 ft (KB)

Start Date: 2008.08.22 End Date:

Start Time: 18:11:05 End Time:

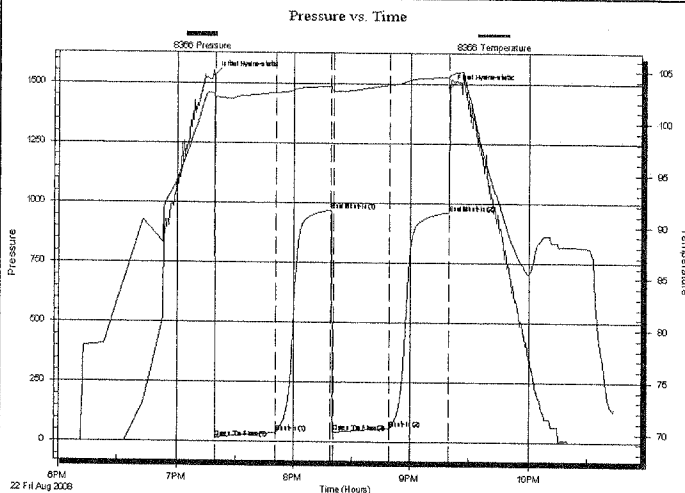
Capacity: 7000.00 psig

Last Calib.: 2008.08.22

Time On Btm: 2008.08.22 @ 19:19:00

Time Off Btm: 2008.08.22 @ 21:20:00

TEST COMMENT: IF Blow built to 6 1/4"
ISI Bled off, No blow back
FF Blow built to 8 1/4"
FSI Bled off, No blow back



PRESSURE SUMMARY

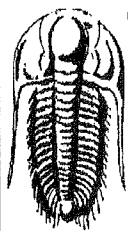
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.07	102.92	Initial Hydro-static
1	15.43	102.17	Open To Flow (1)
32	37.82	102.90	Shut-In(1)
60	970.00	103.52	End Shut-In(1)
62	40.37	103.13	Open To Flow (2)
91	57.65	103.70	Shut-In(2)
121	962.21	104.48	End Shut-In(2)
121	1484.40	104.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
71.00	GMO 50%o, 38%m, 12%g	0.35
50.00	Clean Oil 92%o, 8%g	0.25
0.00	64' GIP	0.00
0.00	gravity = 37.2 ? api @ 70 deg F	0.00
0.00	Corrected gravity = 36.2 ?	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

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32227 **DST#: 3**
Test Start: 2008.08.22 @ 18:11:00

Tool Information

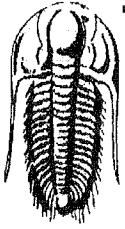
Drill Pipe:	Length: 3076.00 ft	Diameter: 3.80 inches	Volume: 43.15 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 43.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3190.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3175.00	
Hydraulic tool	5.00			3180.00	
Packer	5.00			3185.00	20.00 Bottom Of Top Packer
Packer	5.00			3190.00	
Stubb	1.00			3191.00	
Perforations	3.00			3194.00	
Recorder	0.00	8366	Inside	3194.00	
Recorder	0.00	8320	Inside	3194.00	
Perforations	18.00			3212.00	
Bullnose	3.00			3215.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32227 **DST#: 3**
Test Start: 2008.08.22 @ 18:11:00

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:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

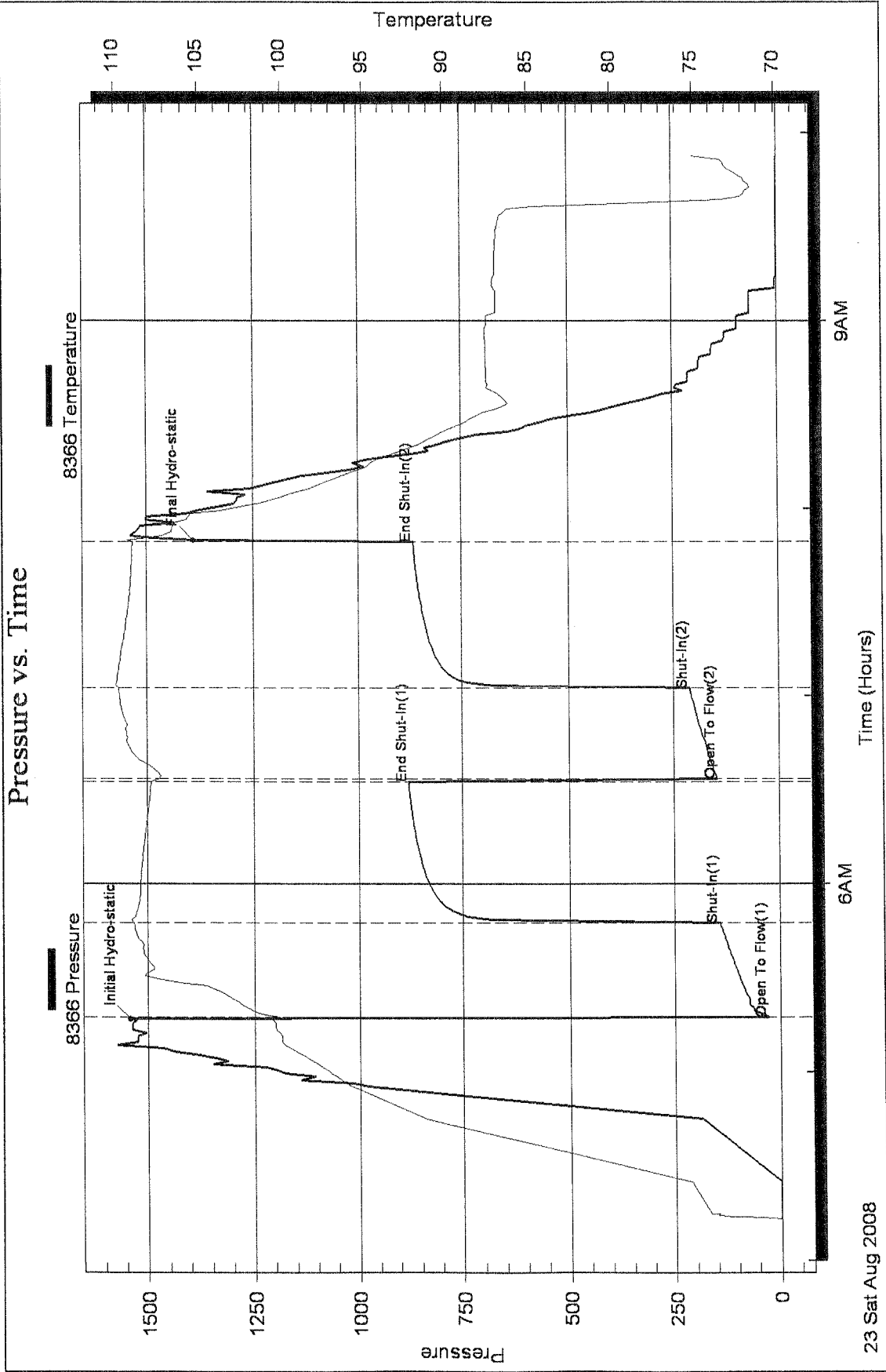
Recovery Table

Length ft	Description	Volume bbl
71.00	GMO 50%o, 38%m, 12%g	0.349
50.00	Clean Oil 92%o, 8%g	0.246
0.00	64' GIP	0.000
0.00	gravity = 37.2 ? api @ 70 deg F	0.000
0.00	Corrected gravity = 36.2 ?	0.000

Total Length: 121.00 ft Total Volume: 0.595 bbl

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

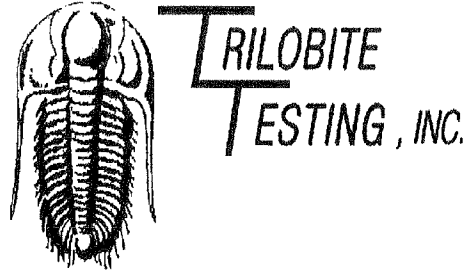
Pressure vs. Time



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Ref. No: 32227

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

113 W. Main
P.O. Box 428
Logan, KS 67646

ATTN: Richard Bell

17 7 19 Rooks KS

Witmer #1-17

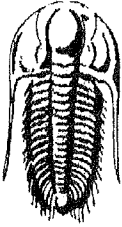
Start Date: 2008.08.23 @ 04:13:00

End Date: 2008.08.23 @ 09:52:30

Job Ticket #: 32228 DST #: 4

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

Job Ticket: 32228 **DST#: 4**

Test Start: 2008.08.23 @ 04:13:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:17:30

Time Test Ended: 09:52:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **3222.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2013.00 ft (KB)

2008.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 213.11 psig @ 3223.00 ft (KB)

Start Date: 2008.08.23 End Date: 2008.08.23

Start Time: 04:13:05 End Time: 09:52:29

Capacity: 7000.00 psig

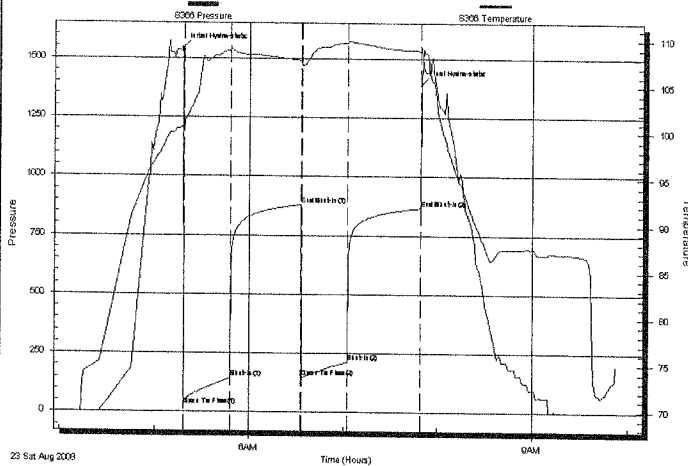
Last Calib.: 2008.08.23

Time On Btm: 2008.08.23 @ 05:17:00

Time Off Btm: 2008.08.23 @ 07:50:00

TEST COMMENT: IF Blow built to BOB in 7 1/2 min.
ISI Bled off, Blowback built to 7 1/4"
FF Blow built to BOB in 13 min
FSI Bled off, Blowback built to 6 1/4"

Pressure vs. Time



PRESSURE SUMMARY

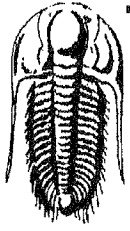
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.92	100.87	Initial Hydro-static
1	28.26	100.22	Open To Flow (1)
31	143.08	108.92	Shut-In(1)
76	878.57	107.85	End Shut-In(1)
77	147.89	107.32	Open To Flow (2)
106	213.11	109.74	Shut-In(2)
153	865.69	108.90	End Shut-In(2)
153	1390.84	109.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	OMCW 93%w, 5%m, 2%o	0.60
260.00	GOMCW 75%w, 12%m, 10%g, 3%o	3.65
55.00	VSWCO 97%o, 3%w	0.77
0.00	Gravity = 37.6 api @ 72 deg F	0.00
0.00	Corrected Gravity = 36.4 api	0.00
0.00	Chlorides = 88,500 ppm	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

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

Job Ticket: 32228

DST#: 4

Test Start: 2008.08.23 @ 04:13:00

Tool Information

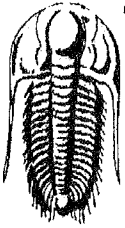
Drill Pipe:	Length: 3108.00 ft	Diameter: 3.80 inches	Volume: 43.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 44.20 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3222.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 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			3207.00	
Hydraulic tool	5.00			3212.00	
Packer	5.00			3217.00	20.00 Bottom Of Top Packer
Packer	5.00			3222.00	
Stubb	1.00			3223.00	
Recorder	0.00	8366	Inside	3223.00	
Recorder	0.00	8320	Inside	3223.00	
Perforations	24.00			3247.00	
Bullnose	3.00			3250.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32228 DST#: 4
Test Start: 2008.08.23 @ 04:13:00

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:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

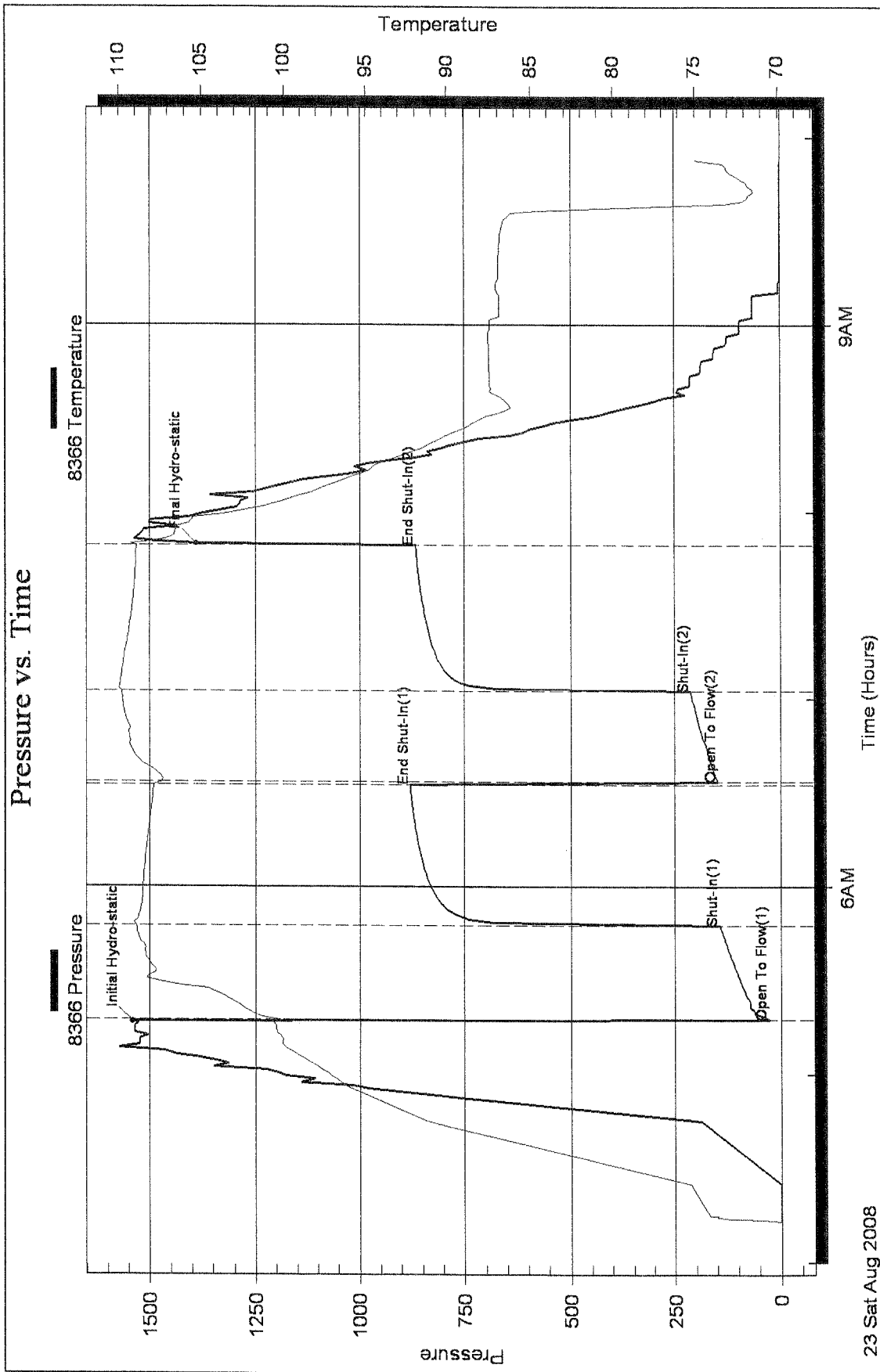
Recovery Table

Length ft	Description	Volume bbl
123.00	OMCW 93%w, 5%m, 2%o	0.605
260.00	GOMCW 75%w, 12%m, 10%g, 3%o	3.647
55.00	VSWCO 97%o, 3%w	0.772
0.00	Gravity = 37.6 api @ 72 deg F	0.000
0.00	Corrected Gravity = 36.4 api	0.000
0.00	Chlorides = 88,500 ppm	0.000

Total Length: 438.00 ft Total Volume: 5.024 bbl

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

Pressure vs. Time



23 Sat Aug 2008

6AM

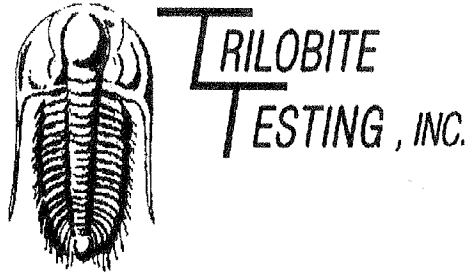
9AM

Time (Hours)

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Ref. No: 32228

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

113 W. Main
P.O. Box 428
Logan, KS 67646

ATTN: Richard Bell

17 7 19 Rooks KS

Witmer #1-17

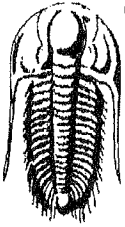
Start Date: 2008.08.23 @ 16:10:30

End Date: 2008.08.23 @ 21:10:30

Job Ticket #: 32229 DST #: 5

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

Job Ticket: 32229 **DST#: 5**

Test Start: 2008.08.23 @ 16:10:30

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:40:00

Time Test Ended: 21:10:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 3245.00 ft (KB) To 3265.00 ft (KB) (TVD)

Total Depth: 3265.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2013.00 ft (KB)

2008.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press@RunDepth: 76.89 psig @ 3246.00 ft (KB)

Start Date: 2008.08.23

End Date: 2008.08.23

Capacity: 7000.00 psig

Start Time: 16:10:35

End Time: 21:10:29

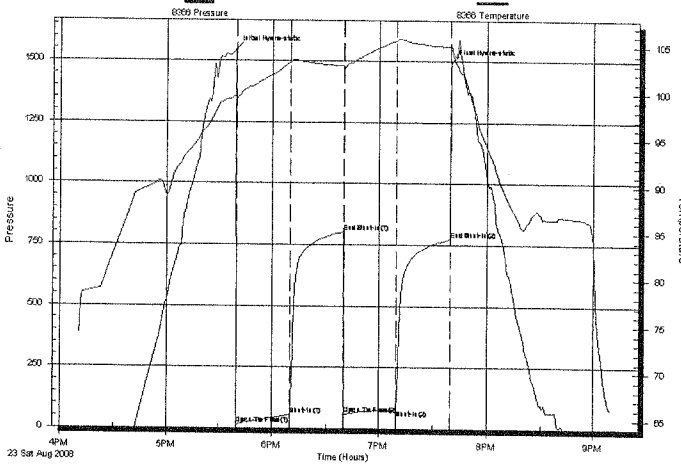
Last Calib.: 2008.08.23

Time On Btm: 2008.08.23 @ 17:39:30

Time Off Btm: 2008.08.23 @ 19:40:00

TEST COMMENT: IF Blow built to 4 1/2"
ISI Bled off, No blow back
FF Blow built to 3"
FSI Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

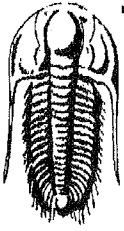
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1543.62	99.73	Initial Hydro-static
1	13.62	99.31	Open To Flow (1)
31	54.44	103.28	Shut-In (1)
60	801.27	102.91	End Shut-In (1)
61	56.55	102.66	Open To Flow (2)
90	76.89	105.66	Shut-In (2)
120	772.85	105.00	End Shut-In (2)
121	1493.66	105.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
136.00	MCW w/trace oil 75%w, 25%m	0.79
2.00	Oil	0.03
0.00	RW = .243 @ 72 deg F	0.00
0.00	chlorides = 28,000 ppm	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

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

Job Ticket: 32229

DST#: 5

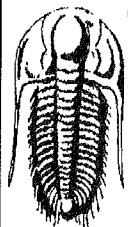
Test Start: 2008.08.23 @ 16:10:30

Tool Information

Drill Pipe:	Length: 3108.00 ft	Diameter: 3.80 inches	Volume: 43.60 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3245.00 ft			Final 48000.00 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			3230.00	
Hydraulic tool	5.00			3235.00	
Packer	5.00			3240.00	20.00 Bottom Of Top Packer
Packer	5.00			3245.00	
Stubb	1.00			3246.00	
Recorder	0.00	8366	Inside	3246.00	
Recorder	0.00	8320	Inside	3246.00	
Perforations	16.00			3262.00	
Bullnose	3.00			3265.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32229 **DST#: 5**
Test Start: 2008.08.23 @ 16:10:30

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
136.00	MCW w/trace oil 75%w, 25%m	0.787
2.00	Oil	0.028
0.00	RW = .243 @ 72 deg F	0.000
0.00	chlorides = 28,000 ppm	0.000

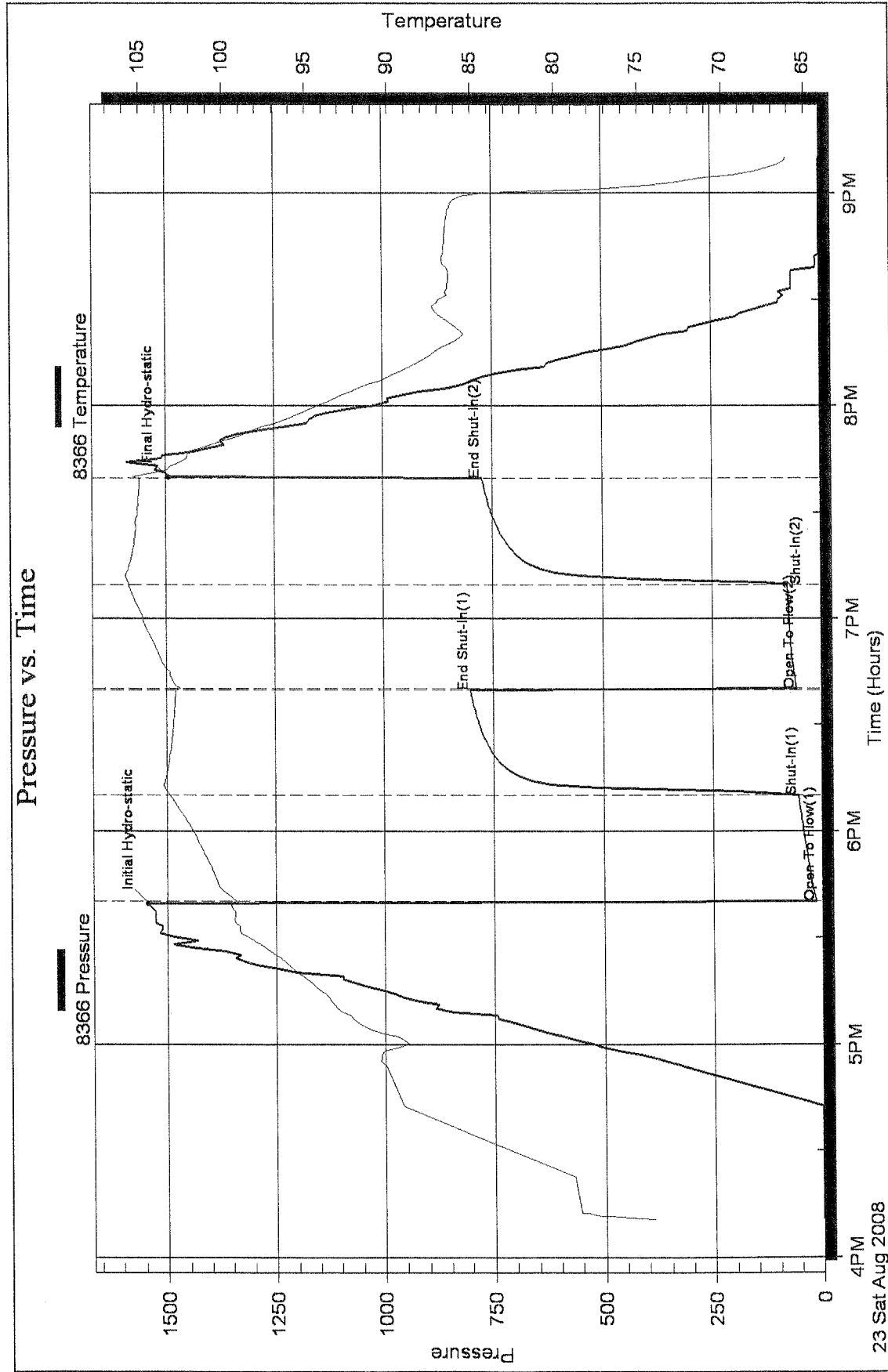
Total Length: 138.00 ft Total Volume: 0.815 bbl

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

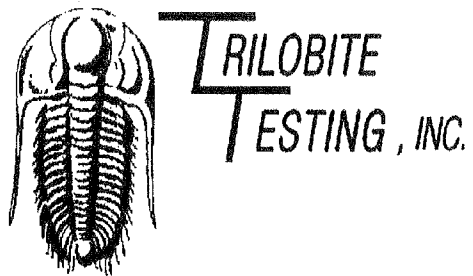
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

113 W. Main
P.O. Box 428
Logan, KS 67646

ATTN: Richard Bell

17 7 19 Rooks KS

Witmer #1-17

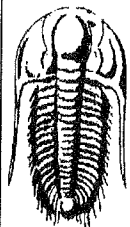
Start Date: 2008.08.24 @ 08:03:30

End Date: 2008.08.24 @ 12:53:00

Job Ticket #: 32230 DST #: 6

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

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS

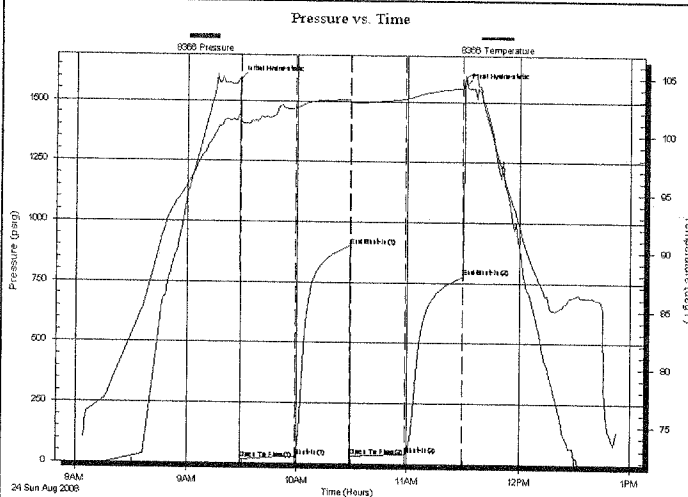
Job Ticket: 32230 **DST#: 6**
Test Start: 2008.08.24 @ 08:03:30

GENERAL INFORMATION:

Formation: **LKC "H & I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:29:00
Time Test Ended: 12:53:00
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 36
Interval: **3317.00 ft (KB) To 3362.00 ft (KB) (TVD)**
Total Depth: 3362.00 ft (KB) (TVD)
Reference Elevations: 2013.00 ft (KB)
2008.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
Press@RunDepth: 40.25 psig @ 3318.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.08.24 End Date: 2008.08.24 Last Calib.: 2008.08.24
Start Time: 08:03:35 End Time: 12:52:59 Time On Btm: 2008.08.24 @ 09:28:30
Time Off Btm: 2008.08.24 @ 11:30:30

TEST COMMENT: IF Slow building blow, built to 1 1/2"
ISI Bled off, No blow back
FF Surface blow at 10 min. very slight build through rest of open
FSI Bled off, No blow back



PRESSURE SUMMARY

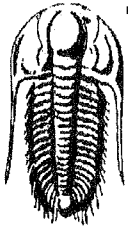
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1588.52	101.69	Initial Hydro-static
1	13.72	101.13	Open To Flow (1)
31	28.11	102.34	Shut-In(1)
60	902.54	103.12	End Shut-In(1)
61	31.28	102.71	Open To Flow (2)
91	40.25	103.18	Shut-In(2)
121	775.45	104.14	End Shut-In(2)
122	1562.72	104.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	SWCM 95% m, 5% w	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32230 **DST#: 6**
Test Start: 2008.08.24 @ 08:03:30

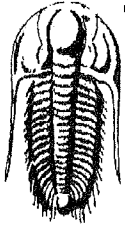
Tool Information

Drill Pipe:	Length: 3200.00 ft	Diameter: 3.80 inches	Volume: 44.89 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3317.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 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			3302.00	
Hydraulic tool	5.00			3307.00	
Packer	5.00			3312.00	20.00 Bottom Of Top Packer
Packer	5.00			3317.00	
Stubb	1.00			3318.00	
Recorder	0.00	8366	Inside	3318.00	
Recorder	0.00	8320	Inside	3318.00	
Perforations	8.00			3326.00	
Blank Spacing	33.00			3359.00	
Bullnose	3.00			3362.00	45.00 Bottom Packers & Anchor
Total Tool Length:	65.00				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Witmer #1-17

113 W. Main
P.O. Box 428
Logan, KS 67646
ATTN: Richard Bell

17 7 19 Rooks KS
Job Ticket: 32230 **DST#: 6**
Test Start: 2008.08.24 @ 08:03:30

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: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: inches			

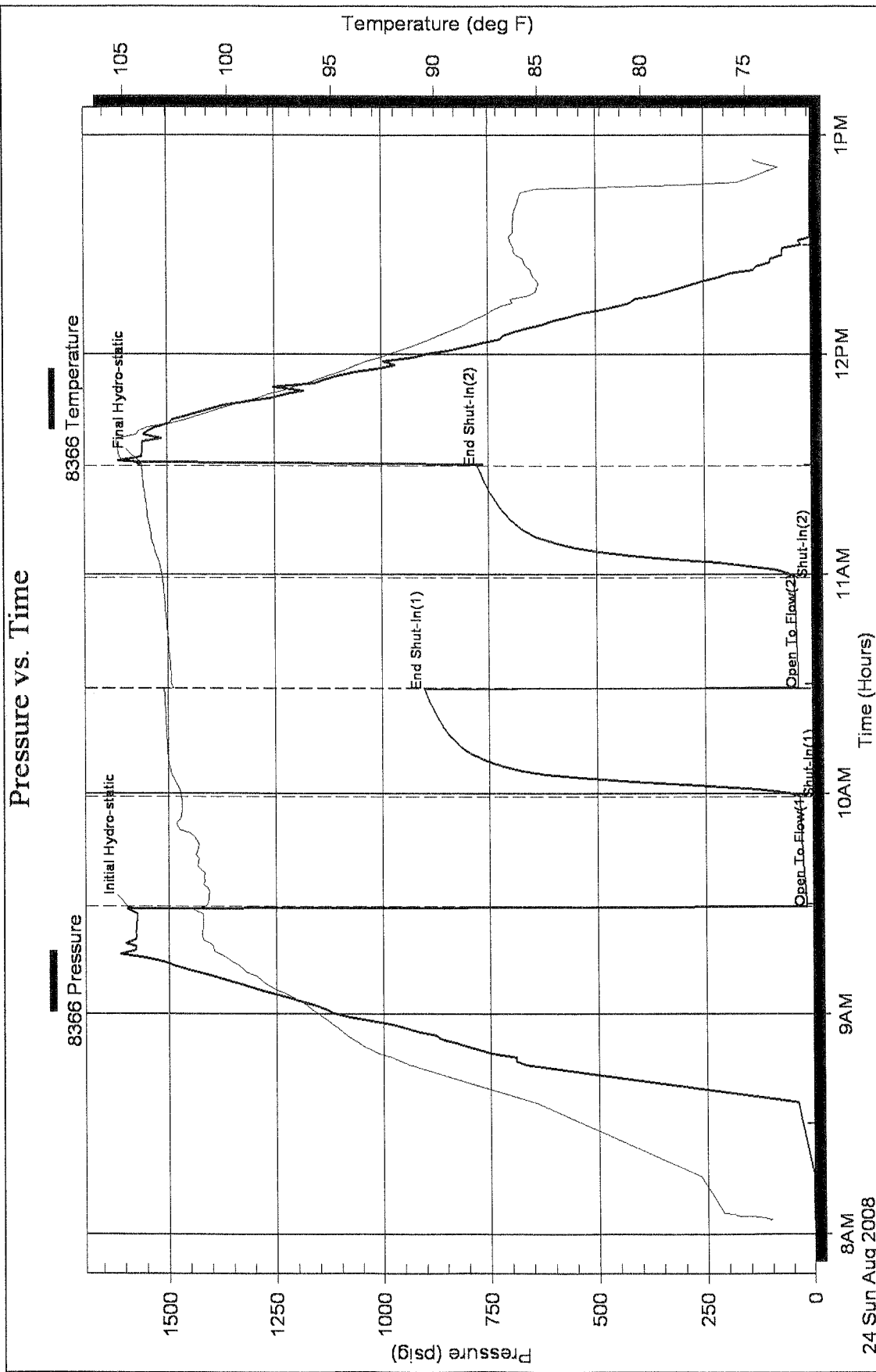
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	SWCM 95% _m , 5% _w	0.300

Total Length: 61.00 ft Total Volume: 0.300 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



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