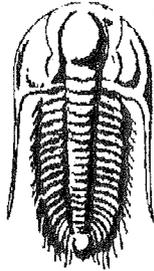


15-065-23440

36-6s-23w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86
Plainville KS 67665

ATTN: Wes Lilly

36 6S 23W Graham KS

Law # 36-1

Start Date: 2008.06.09 @ 22:43:58

End Date: 2008.06.10 @ 05:16:28

Job Ticket #: 32152 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS

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

CONFIDENTIAL

SEP 29 2008

KCC

H & C Oil Operation

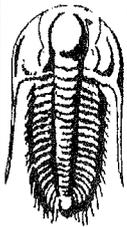
Law # 36-1

36 6S 23W Graham KS

DST # 1

Oread

2008.06.09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32152

DST#: 1

Test Start: 2008.06.09 @ 22:43:58

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:30:28

Time Test Ended: 05:16:28

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3510.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Total Depth: 3570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2368.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8374**

Inside

Press@RunDepth: 267.76 psig @ 3515.00 ft (KB)

Start Date: 2008.06.09

End Date:

2008.06.10

Start Time: 22:43:59

End Time:

05:16:28

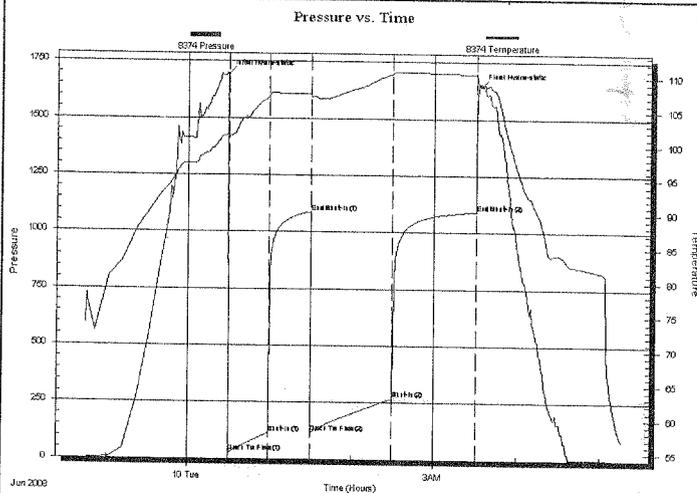
Capacity: 7000.00 psig

Last Callb.: 2008.06.10

Time On Btm: 2008.06.10 @ 00:29:58

Time Off Btm: 2008.06.10 @ 03:33:28

TEST COMMENT: IFP BOB in 16 min
ISI No blow back
FFP BOB in 21 min
FSI No blow back



PRESSURE SUMMARY

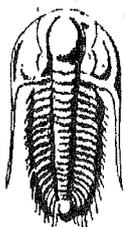
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.05	101.64	Initial Hydro-static
1	27.13	101.10	Open To Flow (1)
30	114.44	106.98	Shut-In(1)
60	1088.51	107.50	End Shut-In(1)
61	118.33	107.06	Open To Flow (2)
120	267.76	110.42	Shut-In(2)
180	1091.91	110.44	End Shut-In(2)
184	1643.02	109.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W 10%M	1.70
220.00	WM 50%W 50%M	3.12
180.00	WM 20%W 80%M	2.55

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32152

DST#: 1

ATTN: Wes Lilly

Test Start: 2008.06.09 @ 22:43:58

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.82 inches	Volume: 49.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 49.70 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3510.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3483.00	
Shut In Tool	5.00			3488.00	
Hydraulic tool	5.00			3493.00	
Jars	5.00			3498.00	
Safety Joint	2.00			3500.00	
Packer	5.00			3505.00	28.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	3.00			3514.00	
Change Over Sub	1.00			3515.00	
Recorder	0.00	8367	Inside	3515.00	
Recorder	0.00	8374	Inside	3515.00	
Change Over Sub	1.00			3516.00	
Drill Pipe	31.00			3547.00	
Perforations	20.00			3567.00	
Bullnose	3.00			3570.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				

CONFIDENTIAL

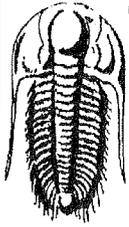
SEP 29 2008

KCC

RECEIVED
KANSAS CORPORATION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32152

DST#: 1

Test Start: 2008.06.09 @ 22:43:58

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:

49000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft.	Description	Volume bbl
120.00	MW 90%W 10%M	1.701
220.00	WM 50%W 50%M	3.119
180.00	WM 20%W 80%M	2.552

Total Length: 520.00 ft

Total Volume: 7.372 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

IDENTIFIED

SEP 5 11 50 AM

KCC

DST Test Number: 1

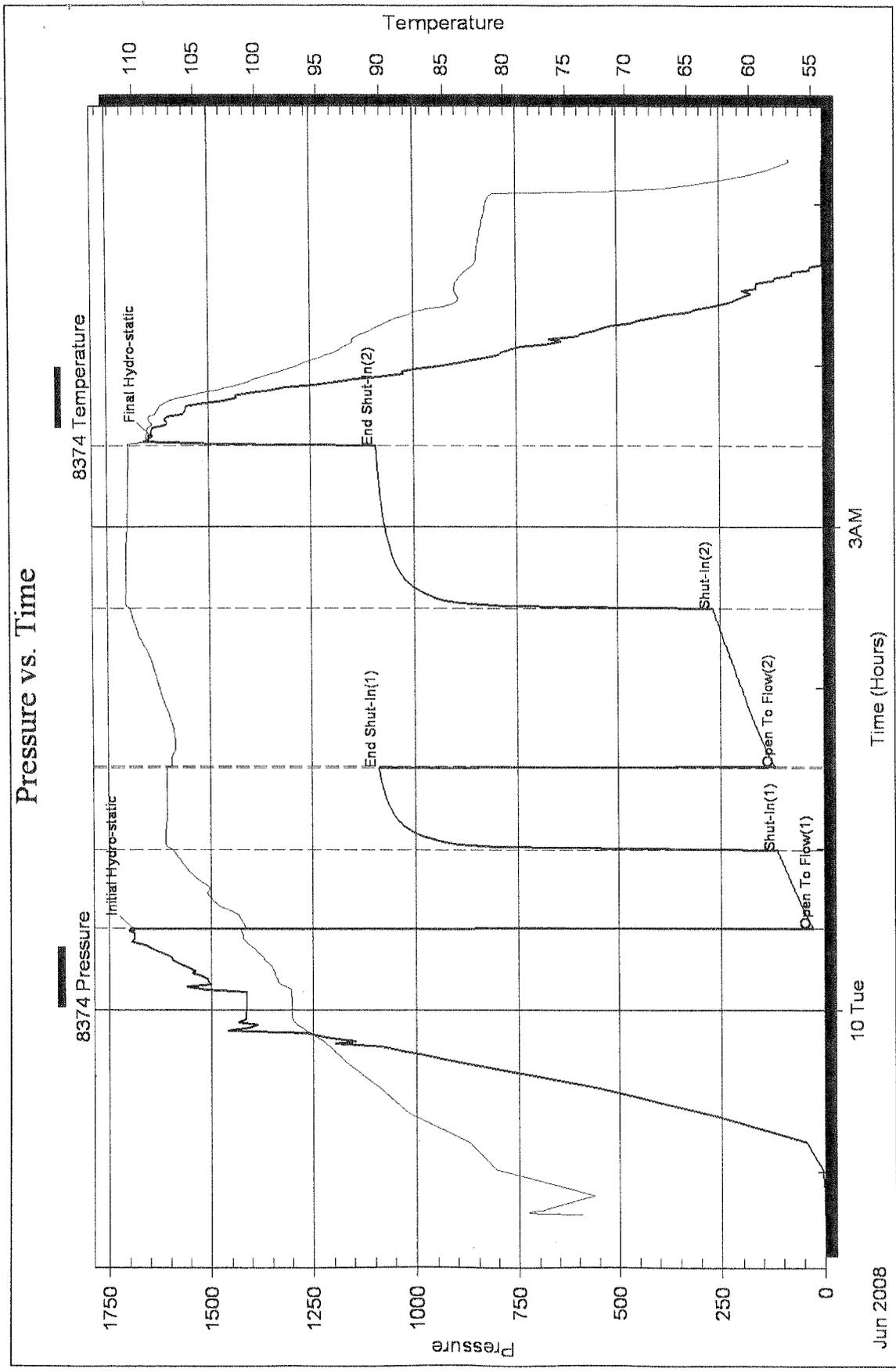
36 6S 23W Graham KS

H & C Oil Operation

Inside

Serial #: 8374

Pressure vs. Time

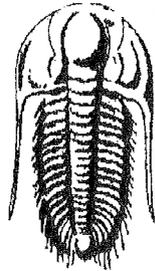


RECEIVED
 KANSAS CORPORATION COMMISSION
 SEP 30 2008
 CONSERVATION DIVISION
 WICHITA, KS

CONFIDENTIAL
 SEP 29 2008
 KCC

Ref. No: 32152

Tribolite Testing, Inc



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86
Plainville KS 67665

ATTN: Wes Lilly

36 6S 23W Graham KS

Law # 36-1

Start Date: 2008.06.10 @ 16:00:53

End Date: 2008.06.10 @ 21:59:53

Job Ticket #: 32153 DST #: 2

CONFIDENTIAL
SEP 29 2008
KCC

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS

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

H & C Oil Operation

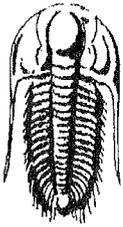
Law # 36-1

36 6S 23W Graham KS

DST # 2

Toronto - LKC "A"

2008.06.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32153

DST#: 2

ATTN: Wes Lilly

Test Start: 2008.06.10 @ 16:00:53

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:25:53

Time Test Ended: 21:59:53

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3573.00 ft (KB) To 3635.00 ft (KB) (TVD)**

Total Depth: 3570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2368.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8374

Inside

Press@RunDepth: 281.46 psig @ 3580.00 ft (KB)

Start Date: 2008.06.10

End Date:

2008.06.10

Start Time: 16:00:54

End Time:

21:59:53

Capacity: 7000.00 psig

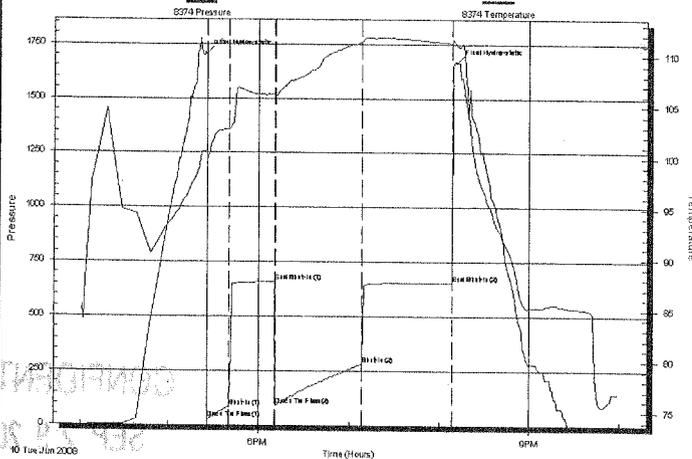
Last Calib.: 2008.06.10

Time On Btm: 2008.06.10 @ 17:24:53

Time Off Btm: 2008.06.10 @ 20:11:53

TEST COMMENT: IFP BOB in 8.5 min
ISI 1/4 " blow back throughout
FFP BOB in 10 min
FSI Weak surface blow back died in 48 min

Pressure vs. Time



PRESSURE SUMMARY

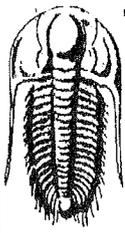
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.05	100.66	Initial Hydro-static
1	27.81	99.57	Open To Flow (1)
16	84.05	102.78	Shut-In(1)
46	657.02	106.22	End Shut-In(1)
47	92.60	105.94	Open To Flow (2)
104	281.46	111.35	Shut-In(2)
164	655.14	111.28	End Shut-In(2)
167	1664.95	111.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W 10%M	1.70
60.00	SOCMW2%O 83%W 15%M	0.85
180.00	OCWM 20%O 30%W 50%M	2.55
135.00	OCM 30%O 70%M	1.91
60.00	CO	0.85
0.00	165' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32153

DST#: 2

ATTN: Wes Lilly

Test Start: 2008.06.10 @ 16:00:53

Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.82 inches	Volume: 50.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		<u>Total Volume:</u>	<u>50.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3573.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3546.00	
Shut In Tool	5.00			3551.00	
Hydraulic tool	5.00			3556.00	
Jars	5.00			3561.00	
Safety Joint	2.00			3563.00	
Packer	5.00			3568.00	28.00 Bottom Of Top Packer
Packer	5.00			3573.00	
Stubb	1.00			3574.00	
Perforations	5.00			3579.00	
Change Over Sub	1.00			3580.00	
Recorder	0.00	8367	Inside	3580.00	
Recorder	0.00	8374	Inside	3580.00	
Change Over Sub	1.00			3581.00	
Drill Pipe	31.00			3612.00	
Perforations	20.00			3632.00	
Bullhose	3.00			3635.00	62.00 Bottom Packers & Anchor
Total Tool Length:	90.00				

CONFIDENTIAL

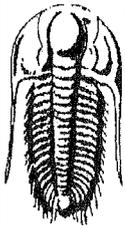
SEP 29 2008

KCC

RECEIVED
KANSAS CORPORATION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32153

DST#: 2

ATTN: Wes Lilly

Test Start: 2008.06.10 @ 16:00:53

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 49000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.16 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 90%W 10%M	1.701
60.00	SOCMW2%O 83%W 15%M	0.851
180.00	OCWM 20%O 30%W 50%M	2.552
135.00	OCM 30%O 70%M	1.914
60.00	CO	0.851
0.00	165' GIP	0.000

Total Length: 555.00 ft Total Volume: 7.869 bbl

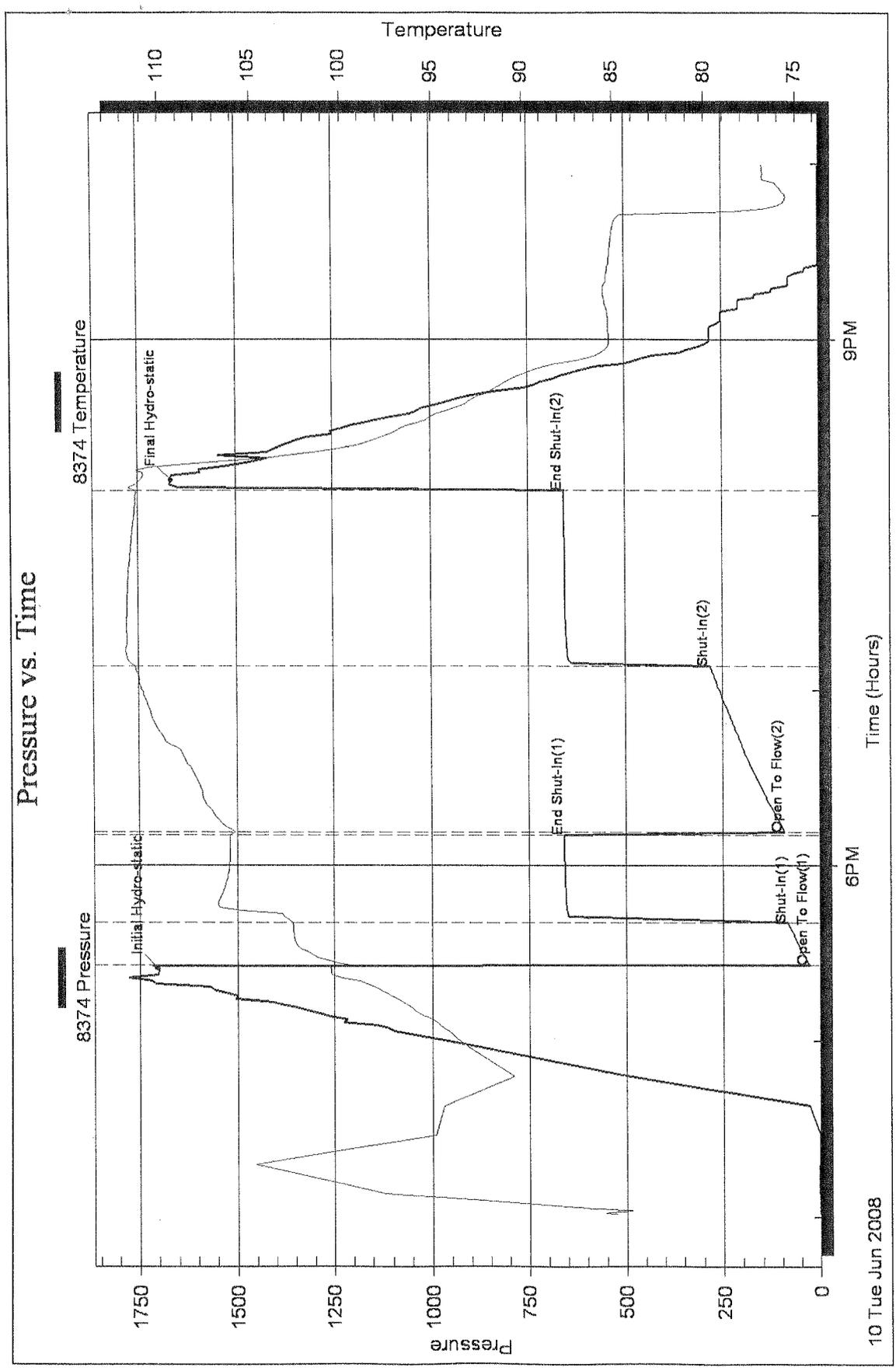
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

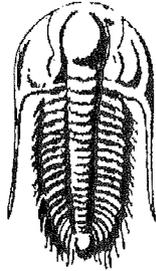
CONFIDENTIAL
 SEP 26 2008
 KCC

Pressure vs. Time



RECEIVED
 KANSAS CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KS
 SEP 30 2008

CONFIDENTIAL
 SEP 29 2008
 KCC



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86
Plainville KS 67665

ATTN: Wes Lilly

36 6S 23W Graham KS

Law # 36-1

Start Date: 2008.06.10 @ 06:15:20

End Date: 2008.06.10 @ 11:44:50

Job Ticket #: 32154 DST #: 3

CONFIDENTIAL

SEP 29 2008

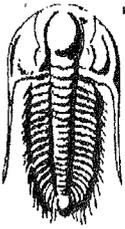
KCC

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

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

TOOL DIAGRAM

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32154

DST#: 3

ATTN: Wes Lilly

Test Start: 2008.06.10 @ 06:15:20

Tool Information

Drill Pipe:	Length: 3631.00 ft	Diameter: 3.82 inches	Volume: 51.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 51.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3630.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

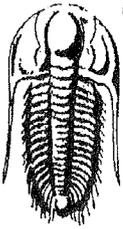
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3603.00	
Shut In Tool	5.00			3608.00	
Hydraulic tool	5.00			3613.00	
Jars	5.00			3618.00	
Safety Joint	2.00			3620.00	
Packer	5.00			3625.00	28.00 Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Perforations	3.00			3634.00	
Change Over Sub	1.00			3635.00	
Recorder	0.00	8367	Inside	3635.00	
Recorder	0.00	8374	Inside	3635.00	
Change Over Sub	1.00			3636.00	
Drill Pipe	31.00			3667.00	
Perforations	10.00			3677.00	
Bullnose	3.00			3680.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				

CONFIDENTIAL
SEP 29 2008

RECEIVED **KCC**
KANSAS CORPORATION COMMISSION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32154

DST#: 3

ATTN: Wes Lilly

Test Start: 2008.06.10 @ 06:15:20

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	MCO 50%O 50%M	0.496

Total Length: 35.00 ft

Total Volume: 0.496 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

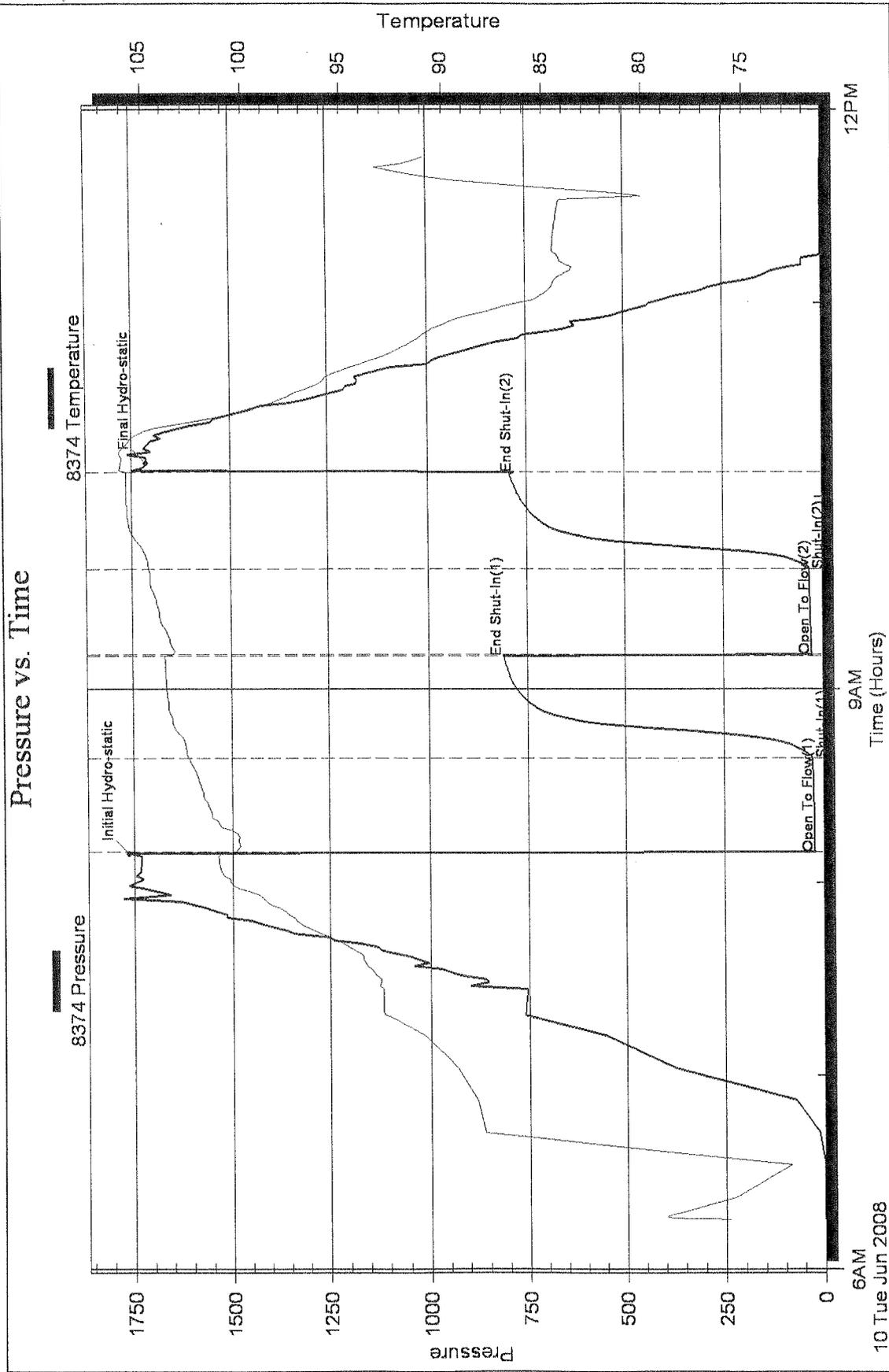
Laboratory Name:

Laboratory Location:

Recovery Comments:

CONFIDENTIAL
SEP 24 2008
KOC

Pressure vs. Time



WICHITA, KS
CONSERVATION DIVISION

SEP 30 2008

RECEIVED
KANSAS CORPORATION COMMISSION

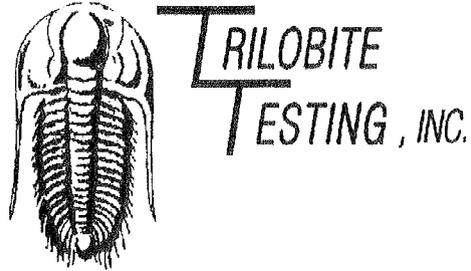
Ref. No: 32154

CONFIDENTIAL
SEP 29 2008

KCC

Trilobite Testing, Inc

6AM
10 Tue Jun 2008
9AM
Time (Hours)
12PM



DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86
Plainville KS 67665

ATTN: Wes Lilly

36 6S 23W Graham KS

Law # 36-1

Start Date: 2008.06.10 @ 23:41:14

End Date: 2008.06.11 @ 05:48:12

Job Ticket #: 32155 DST #: 4

CONFIDENTIAL

SEP 2 9 2008

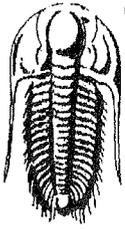
KCC

**RECEIVED
KANSAS CORPORATION COMMISSION**

SEP 3 0 2008

**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

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32155

DST#: 4

Test Start: 2008.06.10 @ 23:41:14

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:01:13

Time Test Ended: 05:48:12

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3677.00 ft (KB) To 3695.00 ft (KB) (TVD)**

Total Depth: 3695.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2368.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8374 Inside

Press@RunDepth: 76.49 psig @ 3682.00 ft (KB)

Start Date: 2008.06.10

End Date:

2008.06.11

Start Time: 23:41:14

End Time:

05:48:13

Capacity: 7000.00 psig

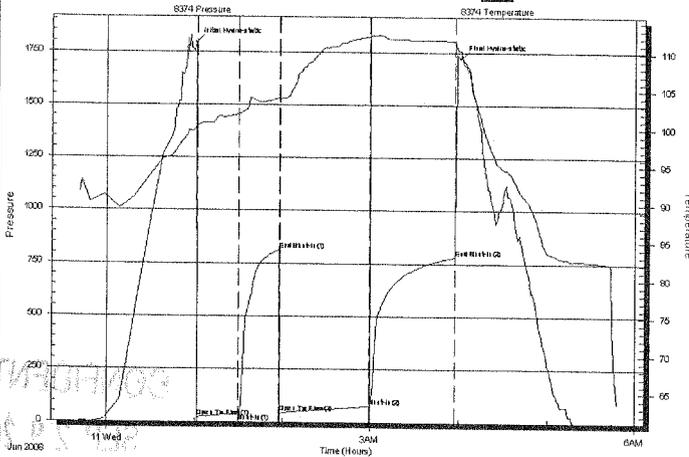
Last Calib.: 2008.06.12

Time On Btm: 2008.06.11 @ 01:00:43

Time Off Btm: 2008.06.11 @ 04:01:13

TEST COMMENT: IFP Weak surface blow built to 4.5 "
ISI Weak surface blow back died in 4 min
FFP Weak surface blow built to 8.5 "
FSI Weak surface blow back died in 6 min

Pressure vs. Time



PRESSURE SUMMARY

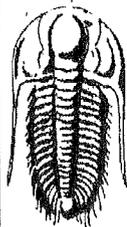
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.17	100.25	Initial Hydro-static
1	21.24	99.84	Open To Flow (1)
30	40.05	101.96	Shut-In(1)
57	811.74	104.00	End Shut-In(1)
58	42.58	103.69	Open To Flow (2)
119	76.49	112.17	Shut-In(2)
178	781.09	111.66	End Shut-In(2)
181	1719.23	110.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 80%W 20%M	0.85
30.00	OCWM 20%O 20%W 60%M	0.43
40.00	CO	0.57
0.00	110' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32155

DST#: 4

ATTN: Wes Lilly

Test Start: 2008.06.10 @ 23:41:14

Tool Information

Drill Pipe:	Length: 3659.00 ft	Diameter: 3.82 inches	Volume: 51.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 51.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3677.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3650.00	
Shut In Tool	5.00			3655.00	
Hydraulic tool	5.00			3660.00	
Jars	5.00			3665.00	
Safety Joint	2.00			3667.00	
Packer	5.00			3672.00	28.00 Bottom Of Top Packer
Packer	5.00			3677.00	
Stubb	1.00			3678.00	
Perforations	4.00			3682.00	
Recorder	0.00	8367	Inside	3682.00	
Recorder	0.00	8374	Inside	3682.00	
Perforations	10.00			3692.00	
Bullnose	3.00			3695.00	18.00 Bottom Packers & Anchor
Total Tool Length:	46.00				

CONFIDENTIAL

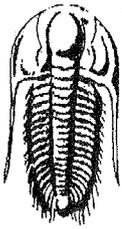
SEP 29 2008

KCC

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32155 DST#: 4

Test Start: 2008.06.10 @ 23:41:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 6.76 in³
Resistivity: ohm.m
Salinity: 900.00 ppm
Filter Cake: inches

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

Oil API: 33 deg API
Water Salinity: 51000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MW 80%W 20%M	0.851
30.00	OCWM 20%O 20%W 60%M	0.425
40.00	CO	0.567
0.00	110' GIP	0.000

Total Length: 130.00 ft Total Volume: 1.843 bbl

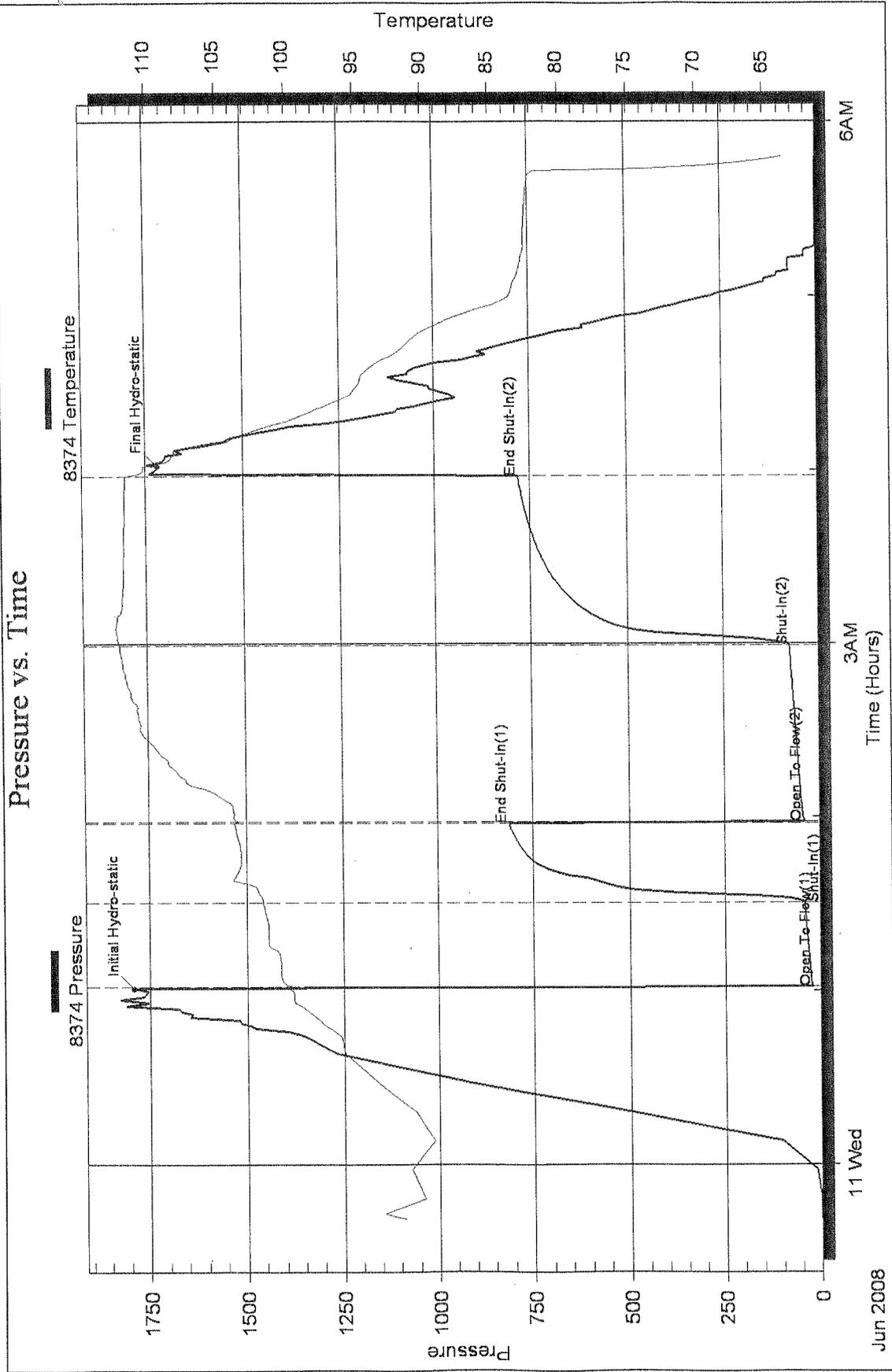
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

CONFIDENTIAL
X018 85 976
KCC

Pressure vs. Time



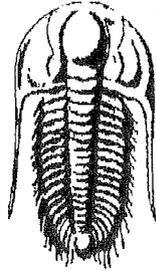
CONFIDENTIAL
 SEP 29 2008
 KCC

Trilobite Testing, Inc

Ref. No: 32155

RECEIVED
 KANSAS CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KS

SEP 30 2008



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86
Plainville KS 67665

ATTN: Wes Lilly

36 6S 23W Graham KS

Law # 36-1

Start Date: 2008.06.12 @ 12:15:03

End Date: 2008.06.12 @ 18:44:33

Job Ticket #: 32156 DST #: 5

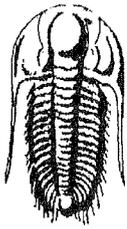
CONFIDENTIAL
SEP 29 2008
KCC

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

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

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32156

DST#: 5

Test Start: 2008.06.12 @ 12:15:03

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:33

Time Test Ended: 18:44:33

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: 3724.00 ft (KB) To 3790.00 ft (KB) (TVD)

Total Depth: 3790.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2368.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8374

Inside

Press@RunDepth: 58.30 psig @ 3731.00 ft (KB)

Start Date: 2008.06.12

End Date:

2008.06.12

Start Time: 12:15:04

End Time:

18:44:33

Capacity: 7000.00 psig

Last Callb.: 2008.06.12

Time On Btm: 2008.06.12 @ 14:16:03

Time Off Btm: 2008.06.12 @ 17:17:33

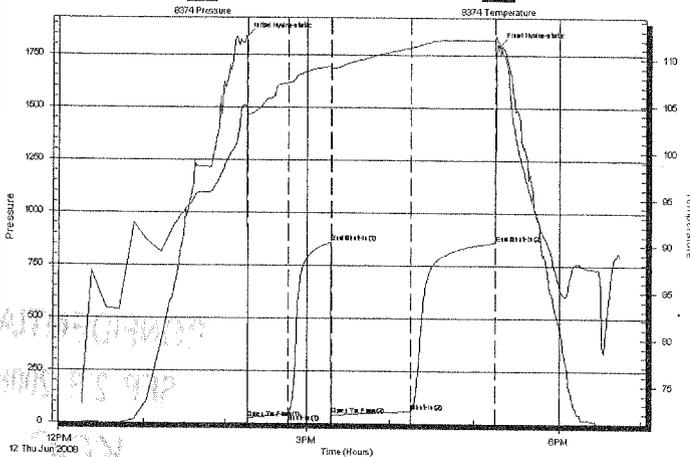
TEST COMMENT: IFP Weak surface blow built to 2"

ISI No blow back

FFP Weak surface blow built to 2.5"

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.73	104.78	Initial Hydro-static
1	23.41	104.10	Open To Flow (1)
30	42.78	107.43	Shut-In(1)
61	856.75	109.20	End Shut-In(1)
62	39.66	108.98	Open To Flow (2)
119	58.30	111.22	Shut-In(2)
179	858.09	112.11	End Shut-In(2)
182	1791.67	111.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20%O 80%M	0.85
15.00	MCO 70%O 30%M	0.21
5.00	CO	0.07
0.00	100' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32156 **DST#: 5**

Test Start: 2008.06.12 @ 12:15:03

Tool Information

Drill Pipe:	Length: 3724.00 ft	Diameter: 3.82 inches	Volume: 52.79 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	52.79 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3724.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3697.00	
Shut In Tool	5.00			3702.00	
Hydraulic tool	5.00			3707.00	
Jars	5.00			3712.00	
Safety Joint	2.00			3714.00	
Packer	5.00			3719.00	28.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Perforations	5.00			3730.00	
Change Over Sub	1.00			3731.00	
Recorder	0.00	8367	Inside	3731.00	
Recorder	0.00	8374	Inside	3731.00	
Drill Pipe	31.00			3762.00	
Change Over Sub	1.00			3763.00	
Perforations	24.00			3787.00	
Bullnose	3.00			3790.00	66.00 Bottom Packers & Anchor
Total Tool Length:	94.00				

CONFIDENTIAL

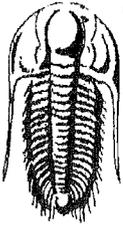
SEP 29 2008

KCC

RECEIVED
KANSAS CORPORATION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32156

DST#: 5

ATTN: Wes Lilly

Test Start: 2008.06.12 @ 12:15:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 20%O 80%M	0.851
15.00	MCO 70%O 30%M	0.213
5.00	CO	0.071
0.00	100' GIP	0.000

Total Length: 80.00 ft

Total Volume: 1.135 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

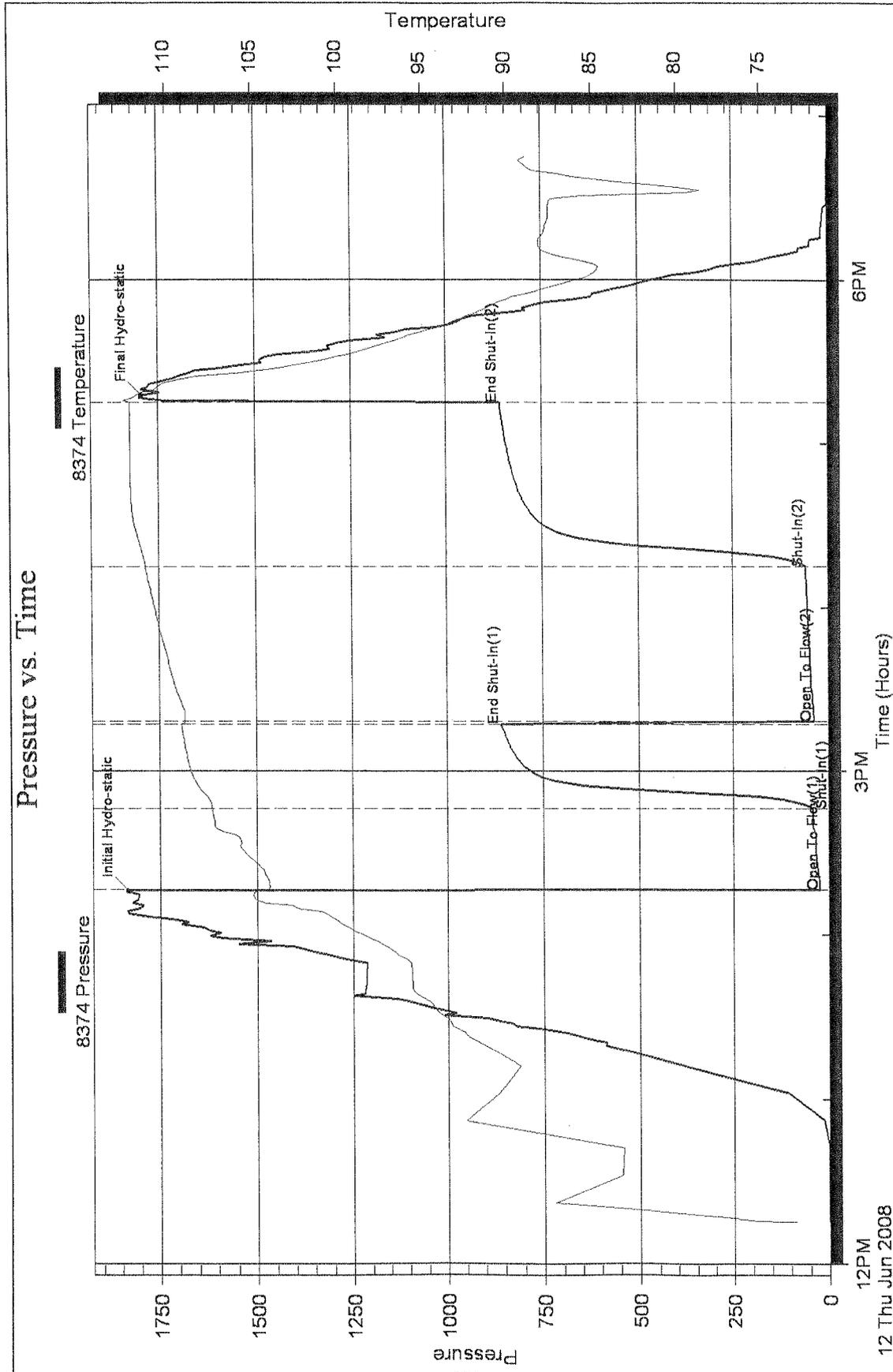
Laboratory Name:

Laboratory Location:

Recovery Comments:

CONFIDENTIAL
FEB 24 2009
KCC

Pressure vs. Time

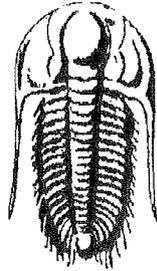


RECEIVED
 KANSAS CORPORATION COMMISSION
 SEP 30 2008
 CONSERVATION DIVISION
 WICHITA, KS

Ref. No: 32156

CONFIDENTIAL
 SEP 29 2008
 KCC

Trilobite Testing, Inc



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86
Plainville KS 67665

ATTN: Wes Lilly

36 6S 23W Graham KS

Law # 36-1

Start Date: 2008.06.13 @ 02:45:08

End Date: 2008.06.13 @ 08:24:08

Job Ticket #: 32157 DST #: 6

CONFIDENTIAL

SEP 29 2008

KCC

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS

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

H & C Oil Operation

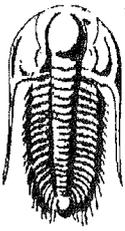
Law # 36-1

36 6S 23W Graham KS

DST # 6

LKC "K"

2008.06.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

Job Ticket: 32157

DST#: 6

ATTN: Wes Lilly

Test Start: 2008.06.13 @ 02:45:08

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:08

Time Test Ended: 08:24:08

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3785.00 ft (KB) To 3805.00 ft (KB) (TVD)**

Total Depth: 3805.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2368.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8374 Inside

Press@RunDepth: 23.04 psig @ 3789.00 ft (KB)

Start Date: 2008.06.13

End Date: 2008.06.13

Start Time: 02:45:09

End Time: 08:24:08

Capacity: 7000.00 psig

Last Calib.: 2008.06.13

Time On Btm: 2008.06.13 @ 04:44:38

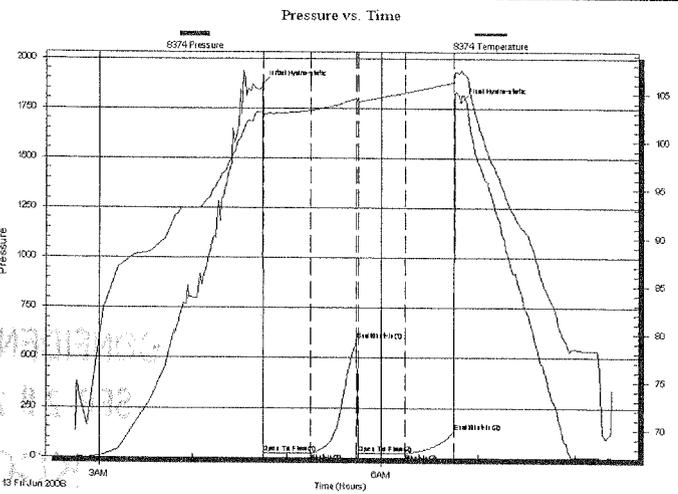
Time Off Btm: 2008.06.13 @ 06:49:08

TEST COMMENT: IFP Weak surface blow throughout

ISI No blow back

FFP No blow

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.30	103.21	Initial Hydro-static
1	20.68	102.67	Open To Flow (1)
31	22.37	103.30	Shut-In(1)
60	588.44	104.53	End Shut-In(1)
61	22.84	104.25	Open To Flow(2)
90	23.04	105.16	Shut-In(2)
120	131.14	106.22	End Shut-In(2)
125	1780.79	107.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	SOCM 5%O 95%M	0.11
2.00	MCO 60%O 40%M	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32157

DST#: 6

Test Start: 2008.06.13 @ 02:45:08

Tool Information

Drill Pipe:	Length: 3781.00 ft	Diameter: 3.82 inches	Volume: 53.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 53.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 300000.0 lb
Depth to Top Packer:	3785.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3758.00	
Shut In Tool	5.00			3763.00	
Hydraulic tool	5.00			3768.00	
Jars	5.00			3773.00	
Safety Joint	2.00			3775.00	
Packer	5.00			3780.00	28.00 Bottom Of Top Packer
Packer	5.00			3785.00	
Stubb	1.00			3786.00	
Perforations	3.00			3789.00	
Recorder	0.00	8367	Inside	3789.00	
Recorder	0.00	8374	Inside	3789.00	
Perforations	10.00			3799.00	
Bullnose	3.00			3802.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00

CONFIDENTIAL

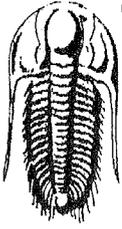
SEP 29 2008

KCC

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operation

Law # 36-1

PO Box 86
Plainville KS 67665

36 6S 23W Graham KS

ATTN: Wes Lilly

Job Ticket: 32157

DST#: 6

Test Start: 2008.06.13 @ 02:45:08

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: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	SOCM 5%O 95%M	0.113
2.00	MCO 60%O 40%M	0.028

Total Length: 10.00 ft Total Volume: 0.141 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

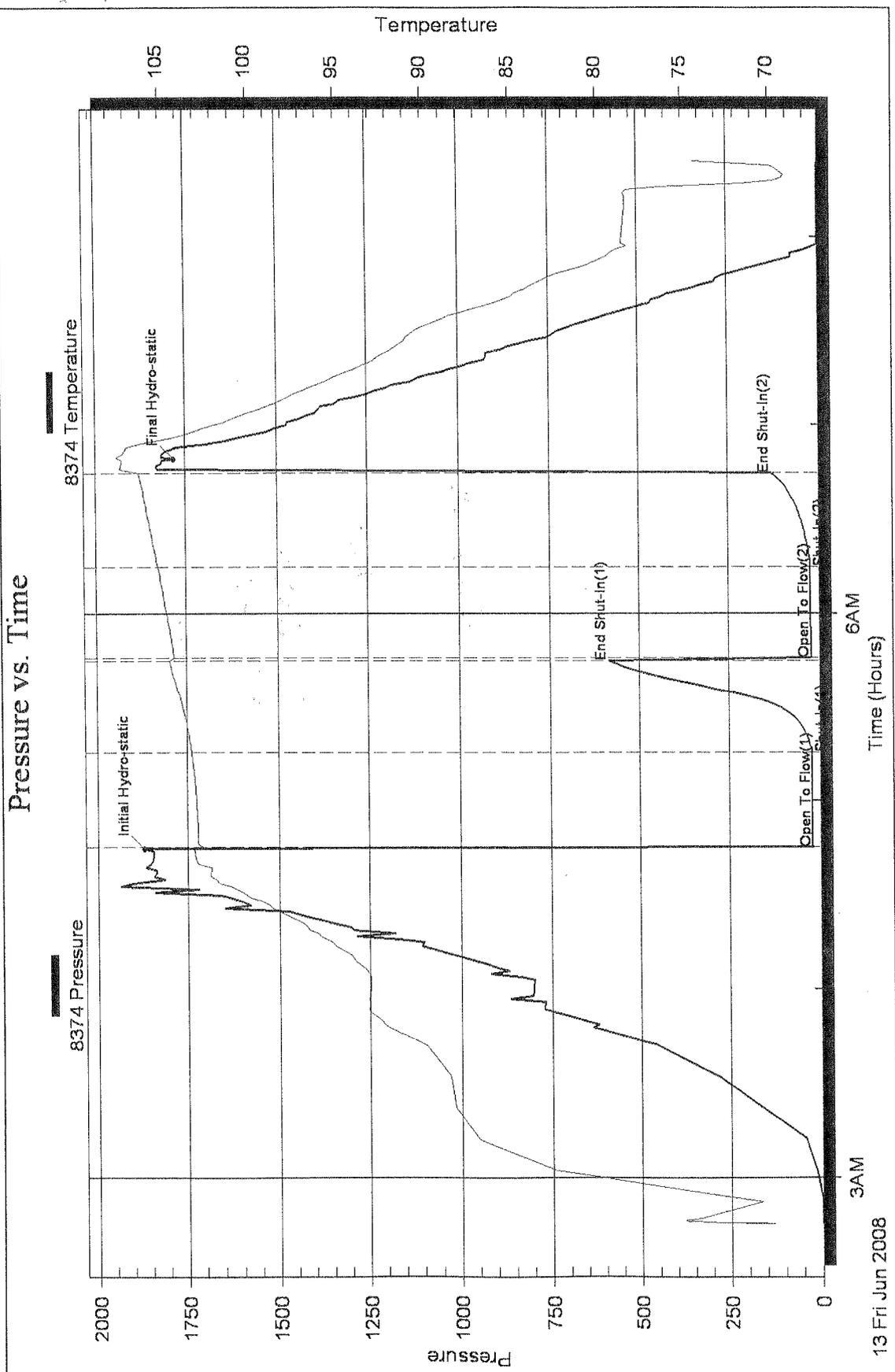
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



CONSERVATION DIVISION
WICHITA KS

SEP 30 2008

RECEIVED
KANSAS CORPORATION COMMISSION

Ref. No: 32157

CONFIDENTIAL
SEP 29 2008
KCC

Trilobite Testing, Inc