

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE. 300
Wichita KS 67202

ATTN: Terry McLead

12 22 13 Stafford Ks

Fischer Drach Unit

Start Date: 2008.10.06 @ 04:24:46

End Date: 2008.10.06 @ 19:26:46

Job Ticket #: 25817 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 27 2009

CONSERVATION DIVISION
WICHITA, KS

Murfin Drilling Co. Inc.

Fischer Drach Unit

12 22 13 Stafford Ks

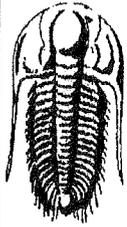
DST # 1

LKC

2008.10.06

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

KCC
JAN 26 2009
CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE. 300
Wichita KS 67202

ATTN: Terry McLead

Fischer Drach Unit

12 22 13 Stafford Ks

Job Ticket: 25817

DST#: 1

Test Start: 2008.10.06 @ 04:24:46

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 09:25:16

Time Test Ended: 19:26:46

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 46

Interval: 3363.00 ft (KB) To 3430.00 ft (KB) (TVD)

Total Depth: 3430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1890.00 ft (KB)

1877.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8359

Inside

Press@RunDepth: 796.73 psig @ 3364.00 ft (KB)

Start Date: 2008.10.06

End Date:

2008.10.06

Capacity: 7000.00 psig

Last Calib.: 2008.10.06

Start Time: 04:24:51

End Time:

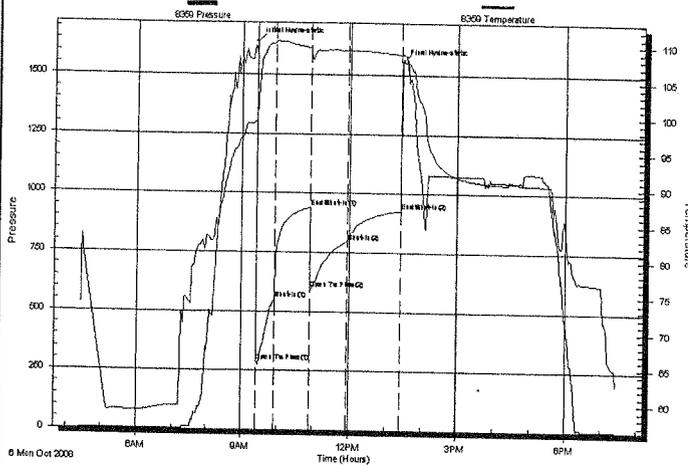
19:26:46

Time On Btm: 2008.10.06 @ 09:24:46

Time Off Btm: 2008.10.06 @ 13:26:31

TEST COMMENT: IF Strong Blow BOB 1 Min GTS 25 Min (No Gauge Could Not Get To Level Off)
ISI Bled Off 10 Min Strong Blow BOB 4 Min Never Died
FF Strong Blow BOB 90 Sec GTS TSTM
FSI Bled Off 15 Min Strong Blow BOB

Pressure vs. Time



PRESSURE SUMMARY

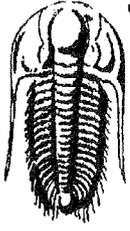
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.98	99.33	Initial Hydro-static
1	286.86	99.79	Open To Flow (1)
31	552.67	110.29	Shut-In(1)
90	939.06	109.57	End Shut-In(1)
91	594.91	109.40	Open To Flow (2)
153	796.73	109.16	Shut-In(2)
241	926.79	108.71	End Shut-In(2)
242	1555.72	108.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2355.00	CGSY Oil 50%O 50%G	33.14

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N Water STE. 300
Wichita KS 67202

ATTN: Terry McLead

Fischer Drach Unit
12 22 13Stafford Ks
Job Ticket: 25817 **DST#: 1**
Test Start: 2008.10.06 @ 04:24:46

Tool Information

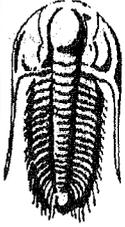
Drill Pipe:	Length: 3171.00 ft	Diameter: 3.88 inches	Volume: 46.37 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.75 inches	Volume: 1.32 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3363.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 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
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Safety Joint	3.00			3353.00	
Packer	5.00			3358.00	23.00 Bottom Of Top Packer
Packer	5.00			3363.00	
Stubb	1.00			3364.00	
Recorder	0.00	8359	inside	3364.00	
Recorder	0.00	8354	Outside	3364.00	
Perforations	5.00			3369.00	
Change Over Sub	1.00			3370.00	
Drill Pipe	31.00			3401.00	
Change Over Sub	1.00			3402.00	
Perforations	25.00			3427.00	
Bullnose	3.00			3430.00	67.00 Bottom Packers & Anchor

Total Tool Length: 90.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.
250 N Water STE. 300
Wichita KS 67202
ATTN: Terry McLead

Fischer Drach Unit
12 22 13 Stafford Ks
Job Ticket: 25817 **DST#: 1**
Test Start: 2008.10.06 @ 04:24:46

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.37 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 0.02 inches		

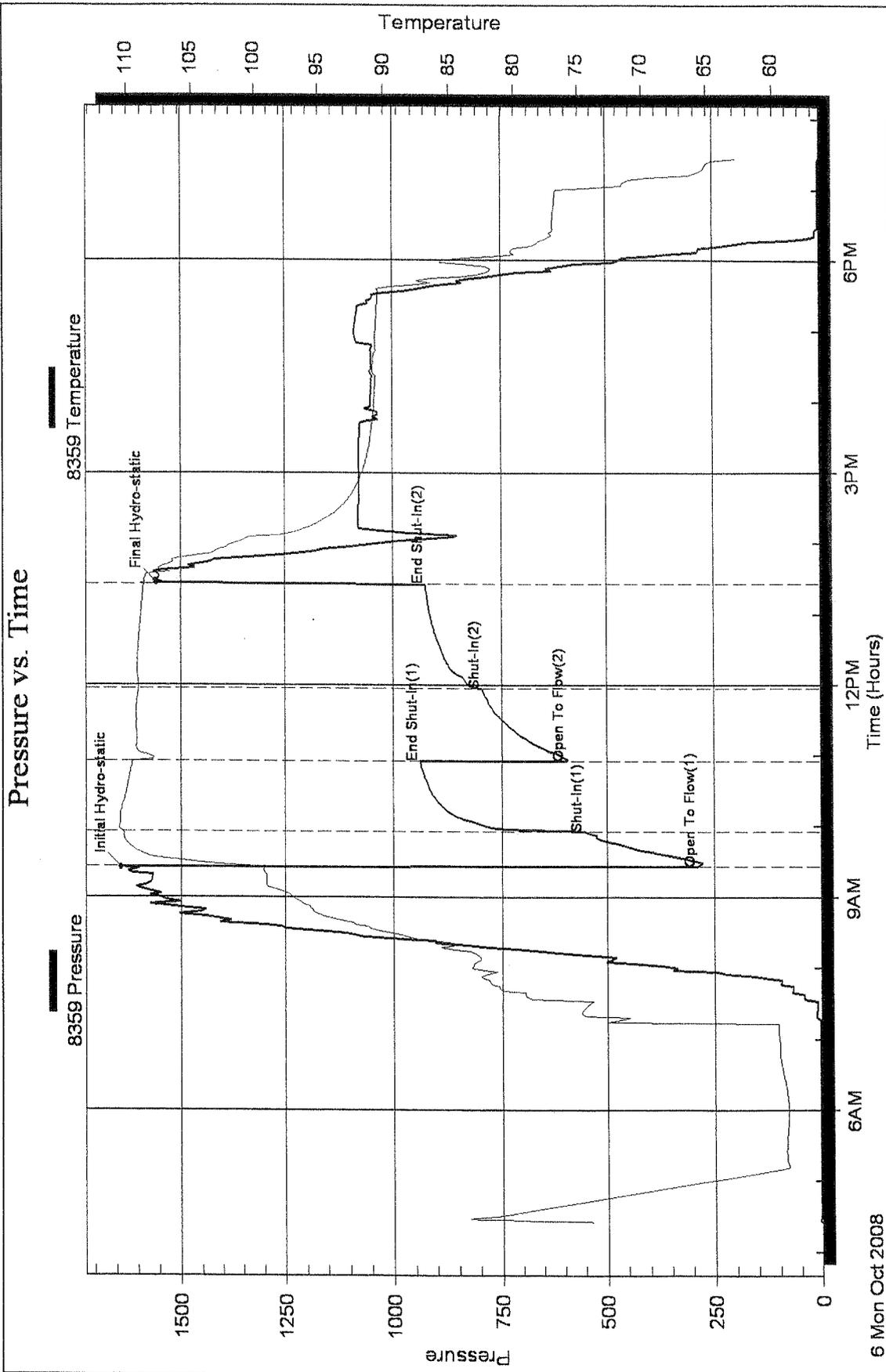
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2355.00	CGSY Oil 50%O 50%G	33.137

Total Length: 2355.00 ft Total Volume: 33.137 bbl
 Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: KT#1
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE. 300
Wichita KS 67202

ATTN: Terry McLead

12 22 13 Stafford Ks

Fischer Drach Unit

Start Date: 2008.10.07 @ 06:48:20

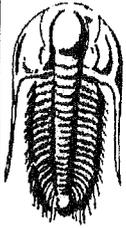
End Date: 2008.10.07 @ 17:03:20

Job Ticket #: 25818 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

Murfin Drilling Co. Inc.
 250 N Water STE. 300
 Wichita KS 67202
 ATTN: Terry McLead

Fischer Drach Unit
12 22 13 Stafford Ks
 Job Ticket: 25818 DST#: 2
 Test Start: 2008.10.07 @ 06:48:20

GENERAL INFORMATION:

Formation: **Lower LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:28:05
 Time Test Ended: 17:03:20
 Interval: **3463.00 ft (KB) To 3550.00 ft (KB) (TVD)**
 Total Depth: 3550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole
 Tester: Kevin Taylor
 Unit No: 46
 Reference Elevations: 1890.00 ft (KB)
 1877.00 ft (CF)
 KB to GR/CF: 13.00 ft

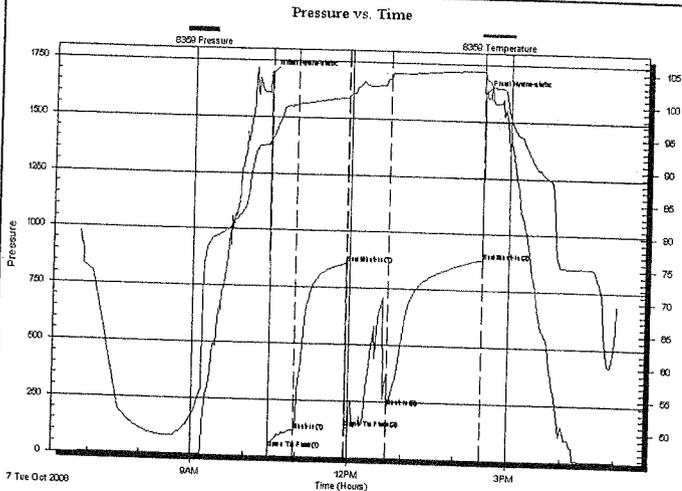
Serial #: 8359

Inside

Press@RunDepth: 228.15 psig @ 3464.00 ft (KB)
 Start Date: 2008.10.07 End Date: 2008.10.07
 Start Time: 06:48:25 End Time: 17:03:20

Capacity: 7000.00 psig
 Last Calib.: 2008.10.07
 Time On Btm: 2008.10.07 @ 10:27:50
 Time Off Btm: 2008.10.07 @ 14:31:04

TEST COMMENT: I.F. Fair Blow Built To 8" In 30 Min.
 I.S.I. Bled Off 5 Min No Blow
 F.F. Fair Blow Built To 5" In 60 Min
 F.S.I. Bled Off 5 Min No Blow



PRESSURE SUMMARY

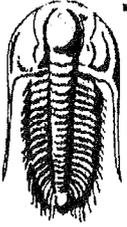
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.73	94.01	Initial Hydro-static
1	35.28	93.56	Open To Flow (1)
31	116.15	99.64	Shut-in(1)
88	856.59	100.67	End Shut-in(1)
89	131.86	100.64	Open To Flow (2)
136	228.15	103.70	Shut-in(2)
243	883.85	105.18	End Shut-in(2)
244	1622.88	104.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	Mud	0.90
60.00	Mud With A Oil Scum	0.47
60.00	SOGCM 1%O 2%G 97%M	0.88
60.00	SOGCM 2%O 3%G 95%M	0.88

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Fischer Drach Unit

250 N Water STE. 300
Wichita KS 67202

12 22 13 Stafford Ks

Job Ticket: 25818

DST#: 2

ATTN: Terry McLead

Test Start: 2008.10.07 @ 06:48:20

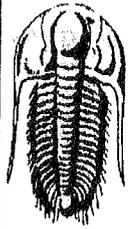
Tool Information

Drill Pipe:	Length: 3267.00 ft	Diameter: 3.88 inches	Volume: 47.78 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.75 inches	Volume: 1.32 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 49.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3463.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	110.00 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			3445.00	
Hydraulic tool	5.00			3450.00	
Safety Joint	3.00			3453.00	
Packer	5.00			3458.00	23.00 Bottom Of Top Packer
Packer	5.00			3463.00	
Stubb	1.00			3464.00	
Recorder	0.00	8359	Inside	3464.00	
Recorder	0.00	8354	Outside	3464.00	
Perforations	5.00			3469.00	
Change Over Sub	1.00			3470.00	
Drill Pipe	63.00			3533.00	
Change Over Sub	1.00			3534.00	
Perforations	13.00			3547.00	
Bullnose	3.00			3550.00	87.00 Bottom Packers & Anchor

Total Tool Length: 110.00



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Fischer Drach Unit
12 22 13 Stafford Ks
Job Ticket: 25818 DST#: 2
Test Start: 2008.10.07 @ 06:48:20

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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	Mud	0.904
60.00	Mud With A Oil Scum	0.470
60.00	SOGCM 1%O 2%G 97%M	0.877
60.00	SOGCM 2%O 3%G 95%M	0.877

Total Length: 303.00 ft Total Volume: 3.128 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8359

Inside

Murfin Drilling Co. Inc.

12 22 13 Stafford Ks

DST Test Number: 2

Pressure vs. Time

