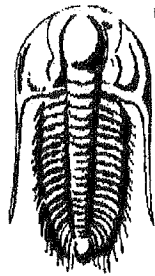


15-163-23593

9-9s-18w

KCS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

9 9S 18W Rooks KS

Harrison #1-9

Start Date: 2007.04.07 @ 20:58:58

End Date: 2007.04.08 @ 06:20:23

Job Ticket #: 28156 DST #: 1

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CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Printed: 2007.04.10 @ 14:46:10 Page

APR 25 2007

CONSERVATION DIVISION
WICHITA, KS

Murfin Drilling Co Inc

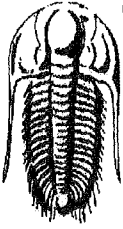
Harrison #1-9

9 9S 18W Rooks KS

DST # 1

LKC A-F

2007.04.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Harrison #1-9

9 9S 18W Rooks KS

Job Ticket: 28156

DST#: 1

Test Start: 2007.04.07 @ 20:58:58

GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:23

Time Test Ended: 06:20:23

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3231.00 ft (KB) To 3335.00 ft (KB) (TVD)**

Total Depth: 3335.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2050.00 ft (KB)

2045.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 311.66 psig @ 3237.01 ft (KB)

Start Date: 2007.04.07

End Date:

2007.04.08

Capacity: 7000.00 psig

Last Calib.: 2007.04.08

Start Time: 20:58:58

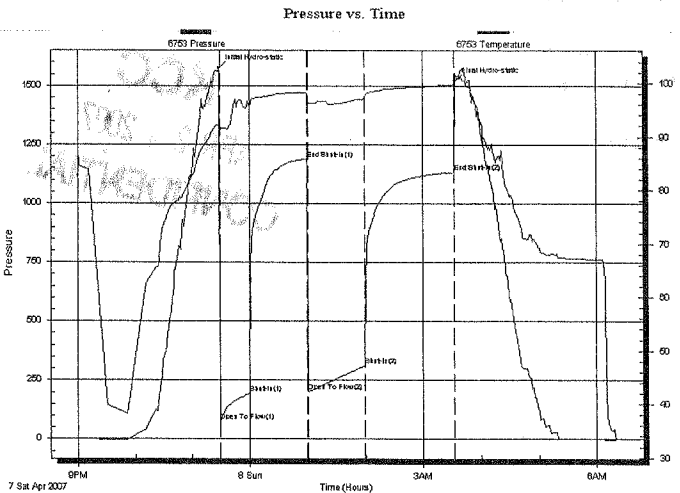
End Time:

06:20:23

Time On Btm: 2007.04.07 @ 23:28:23

Time Off Btm: 2007.04.08 @ 03:32:52

TEST COMMENT: IFP Wk to strg in 17 min
FFP Wk bl thru-out 1/2" to 1 1/2" bl
Times 30 60 60 90
No bl on shut-in



PRESSURE SUMMARY

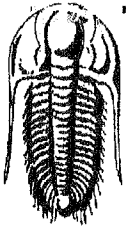
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.75	92.36	Initial Hydro-static
1	75.00	90.84	Open To Flow (1)
32	192.93	95.45	Shut-In(1)
91	1188.13	98.11	End Shut-In(1)
92	200.94	96.38	Open To Flow (2)
151	311.66	97.08	Shut-In(2)
244	1133.59	99.77	End Shut-In(2)
245	1520.76	100.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Water RW .16 @ 47F	1.84
248.00	MW 80%W 20%M w/show of Oil	3.48
130.00	MW 45%M 55%W w/show of Oil	1.82

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Harrison #1-9

250 N Water Ste 300
Wichita KS 67202

9 9S 18W Rooks KS

Job Ticket: 28156

DST#: 1

ATTN: Scott Robinson

Test Start: 2007.04.07 @ 20:58:58

Tool Information

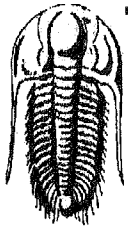
Drill Pipe:	Length: 3048.00 ft	Diameter: 3.80 inches	Volume: 42.76 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3231.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.02 ft			
Tool Length:	133.02 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			3204.00	
Shut In Tool	5.00			3209.00	
Hydraulic tool	5.00			3214.00	
Jars	5.00			3219.00	
Safety Joint	2.00			3221.00	
Packer	5.00			3226.00	28.00 Bottom Of Top Packer
Packer	5.00			3231.00	
Stubb	1.00			3232.00	
Perforations	5.00			3237.00	
Recorder	0.01	6753	Inside	3237.01	
Blank Spacing	65.00			3302.01	
Recorder	0.01	13534	Outside	3302.02	
Perforations	31.00			3333.02	
Bullnose	3.00			3336.02	105.02 Bottom Packers & Anchor

Total Tool Length: 133.02

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202

Harrison #1-9

9 9S 18W Rooks KS

Job Ticket: 28156

DST#: 1

ATTN: Scott Robinson

Test Start: 2007.04.07 @ 20:58:58

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:	70000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.74 in ³	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
248.00	Water RW .16 @ 47F	1.839
248.00	MW 80%W 20%M w/show of Oil	3.479
130.00	MW 45%M 55%W w/show of Oil	1.824

Total Length: 626.00 ft Total Volume: 7.142 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 10# LCM

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DST Test Number: 1

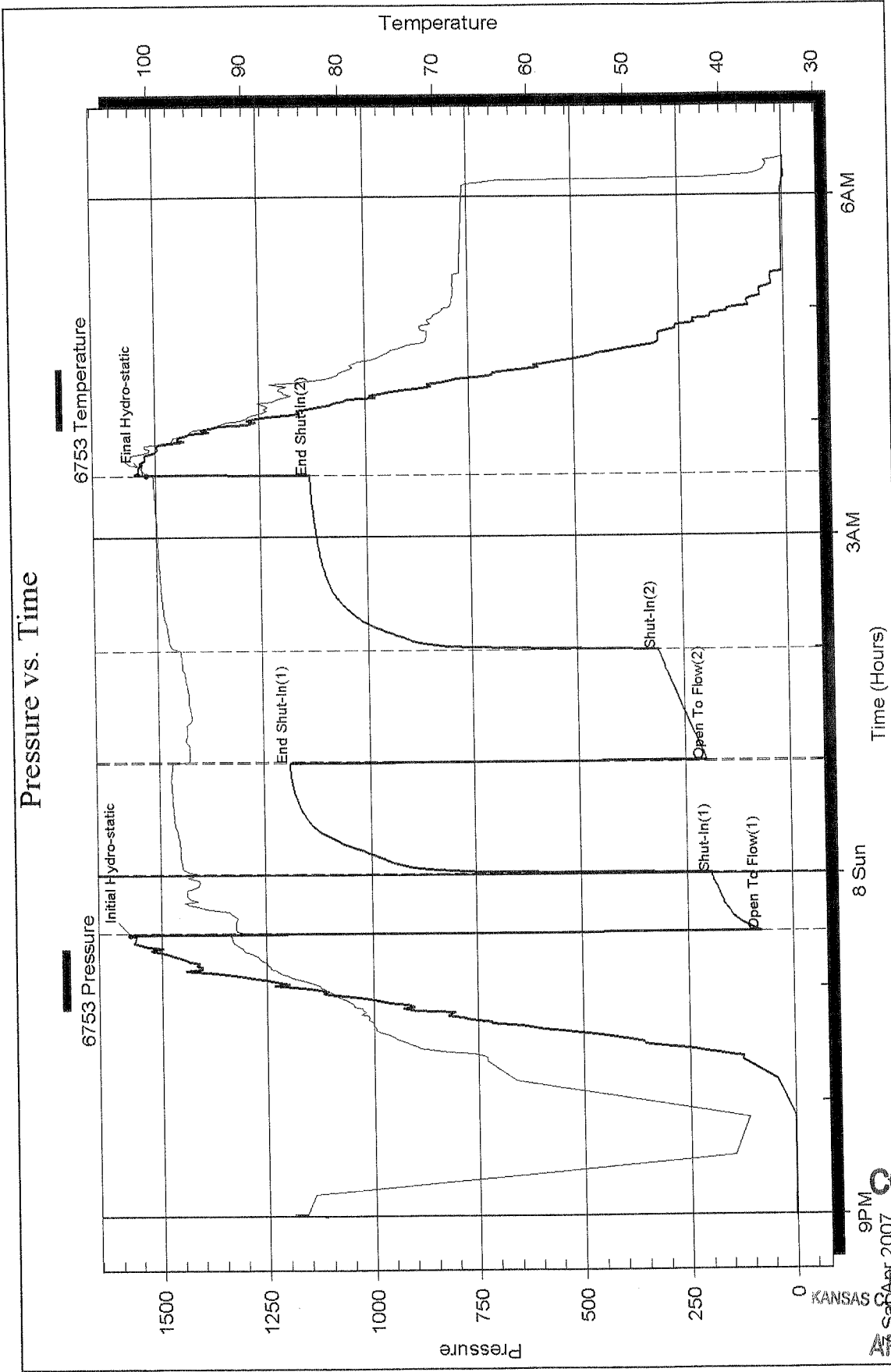
9 9S 18W Rooks KS

Murfin Drilling Co Inc

Inside

Serial #: 6753

Pressure vs. Time



Ref. No: 28156

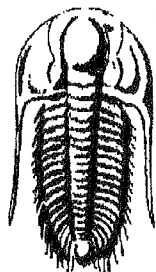
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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

9 9S 18W Rooks KS

Harrison #1-9

Start Date: 2007.04.08 @ 11:28:22

End Date: 2007.04.08 @ 19:19:16

Job Ticket #: 28157 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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CONSERVATION DIVISION
WICHITA, KS

Murfin Drilling Co Inc

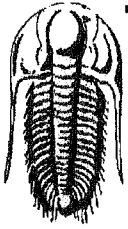
Harrison #1-9

9 9S 18W Rooks KS

DST # 2

LKC "G"

2007.04.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Harrison #1-9

9 9S 18W Rooks KS

Job Ticket: 28157

DST#: 2

Test Start: 2007.04.08 @ 11:28:22

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:47

Time Test Ended: 19:19:16

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3339.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2050.00 ft (KB)

2045.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 117.53 psig @ 3340.01 ft (KB)

Start Date: 2007.04.08

End Date:

2007.04.08

Capacity: 7000.00 psig

Last Calib.: 2007.04.08

Start Time: 11:28:22

End Time:

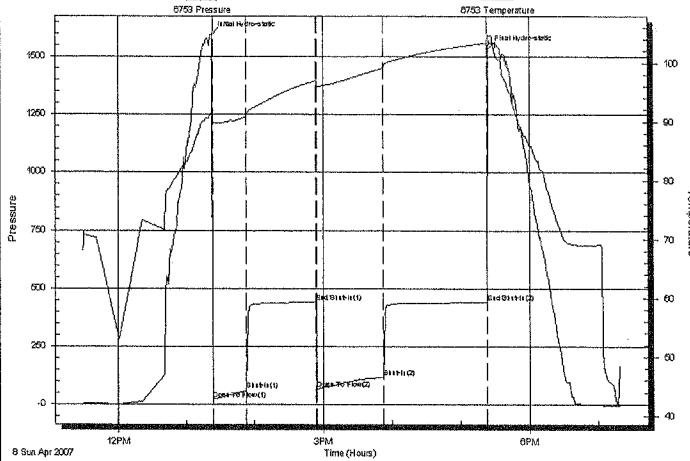
19:19:16

Time On Btm: 2007.04.08 @ 13:22:17

Time Off Btm: 2007.04.08 @ 17:24:16

TEST COMMENT: IFP Wk bl thru-out 1/4 " to 1 " bl
FFP Wk bl thru-out surface to 1/2 " bl
Times 30 60 60 90
No bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

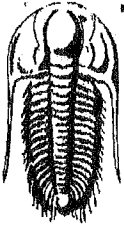
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.64	91.47	Initial Hydro-static
1	22.97	89.58	Open To Flow (1)
31	61.40	90.92	Shut-In(1)
92	439.80	96.97	End Shut-In(1)
93	67.43	95.99	Open To Flow (2)
150	117.53	99.07	Shut-In(2)
242	439.34	103.41	End Shut-In(2)
242	1535.39	104.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Water RW .18 @ 64F	1.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Harrison #1-9

9 9S 18W Rocks KS

Job Ticket: 28157

DST#: 2

Test Start: 2007.04.08 @ 11:28:22

Tool Information

Drill Pipe:	Length: 3142.00 ft	Diameter: 3.80 inches	Volume: 44.07 bbl	Tool Weight: 2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3339.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.02 ft			
Tool Length:	39.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

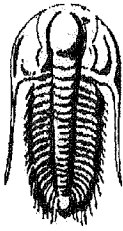
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3312.00	
Shut In Tool	5.00			3317.00	
Hydraulic tool	5.00			3322.00	
Jars	5.00			3327.00	
Safety Joint	2.00			3329.00	
Packer	5.00			3334.00	28.00 Bottom Of Top Packer
Packer	5.00			3339.00	
Stubb	1.00			3340.00	
Recorder	0.01	6753	Inside	3340.01	
Perforations	7.00			3347.01	
Recorder	0.01	13534	Outside	3347.02	
Bullhose	3.00			3350.02	11.02 Bottom Packers & Anchor

Total Tool Length: 39.02

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Harrison #1-9

250 N Water Ste 300
Wichita KS 67202

9 9S 18W Rooks KS

Job Ticket: 28157

DST#: 2

ATTN: Scott Robinson

Test Start: 2007.04.08 @ 11:28:22

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	45000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.75 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Water RW .18 @ 64F	1.025

Total Length: 190.00 ft Total Volume: 1.025 bbl

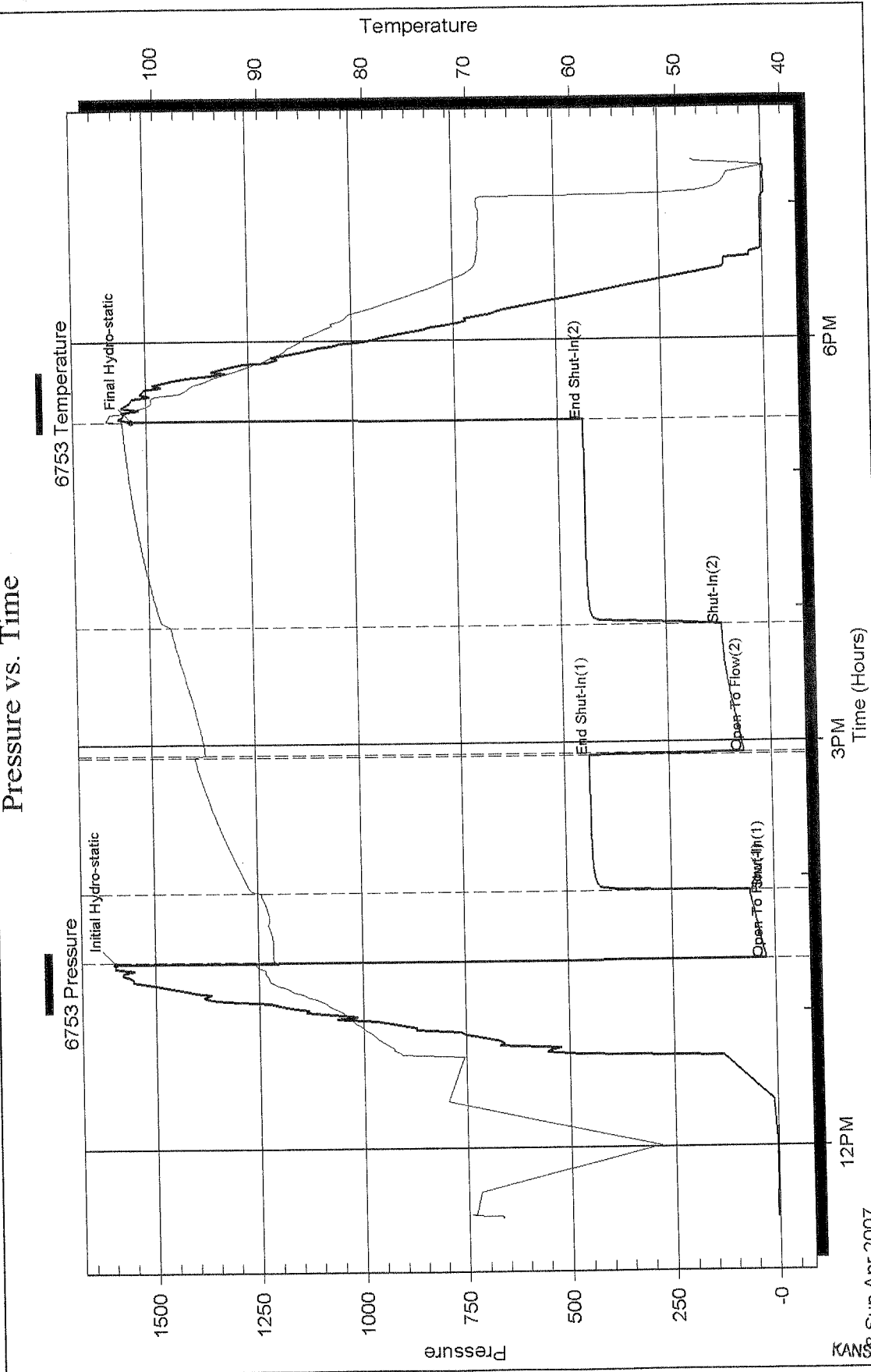
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

3021
R
W

Pressure vs. Time



88 Sun Apr 2007

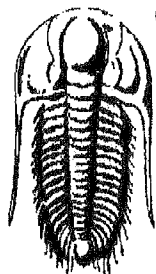
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APR 25 2007

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 28157

Digitite Testing, Inc



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

9 9S 18W Rooks KS

Harrison #1-9

Start Date: 2007.04.09 @ 06:15:58

End Date: 2007.04.09 @ 14:25:22

Job Ticket #: 28158 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Harrison #1-9

9 9S 18W Rooks KS

DST # 3

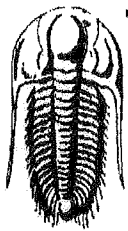
LKC H-L

2007.04.09

Printed: 2007.04.10 10:34:50 AM
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APR 25 2007

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202
 ATTN: Scott Robinson

Harrison #1-9
9 9S 18W Rooks KS
 Job Ticket: 28158 **DST#: 3**
 Test Start: 2007.04.09 @ 06:15:58

GENERAL INFORMATION:

Formation: **LKC H-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:25:23
 Time Test Ended: 14:25:22
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 28
 Interval: **3363.00 ft (KB) To 3465.00 ft (KB) (TVD)**
 Total Depth: 3465.00 ft (KB) (TVD)
 Reference Elevations: 2050.00 ft (KB)
 2045.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Poor
 KB to GR/CF: 5.00 ft

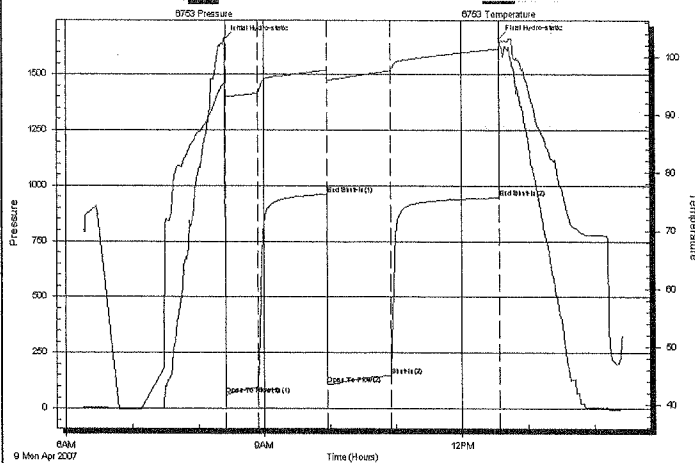
Serial #: 6753

Inside

Press@RunDepth: 148.27 psig @ 3371.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2007.04.09 End Date: 2007.04.09 Last Calib.: 2007.04.09
 Start Time: 06:15:58 End Time: 14:25:22 Time On Btm: 2007.04.09 @ 08:24:53
 Time Off Btm: 2007.04.09 @ 12:34:22

TEST COMMENT: IFP Wk bl thru-out 1/4 " to 1 " bl
 FFP Wk bl thru-out 1/2 " to 1 " bl
 Times 30 60 60 90
 No bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

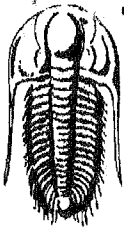
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.11	95.37	Initial Hydro-static
1	61.12	93.28	Open To Flow (1)
30	97.54	93.76	Shut-In(1)
93	961.09	97.79	End Shut-In(1)
93	107.54	96.17	Open To Flow (2)
151	148.27	97.65	Shut-In(2)
249	946.25	101.45	End Shut-In(2)
250	1661.59	102.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water RW .2 @ 57F	0.59
70.00	MW 30%M 70%W	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Harrison #1-9

9 9S 18W Rooks KS

Job Ticket: 28158

DST#: 3

Test Start: 2007.04.09 @ 06:15:58

Tool Information

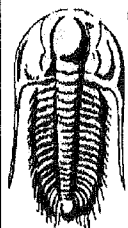
Drill Pipe:	Length: 3175.00 ft	Diameter: 3.80 inches	Volume: 44.54 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3363.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.02 ft			
Tool Length:	130.02 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			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Jars	5.00			3351.00	
Safety Joint	2.00			3353.00	
Packer	5.00			3358.00	28.00 Bottom Of Top Packer
Packer	5.00			3363.00	
Stubb	1.00			3364.00	
Perforations	7.00			3371.00	
Recorder	0.01	6753	Inside	3371.01	
Blank Spacing	62.00			3433.01	
Recorder	0.01	13534	Outside	3433.02	
Perforations	29.00			3462.02	
Bullnose	3.00			3465.02	102.02 Bottom Packers & Anchor

Total Tool Length: 130.02

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Harrison #1-9

250 N Water Ste 300
Wichita KS 67202

9 9S 18W Rooks KS

Job Ticket: 28158

DST#: 3

ATTN: Scott Robinson

Test Start: 2007.04.09 @ 06:15:58

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: 46000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	Water RW .2 @ 57F	0.590
70.00	MW 30%M 70%W	0.435

Total Length: 190.00 ft Total Volume: 1.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

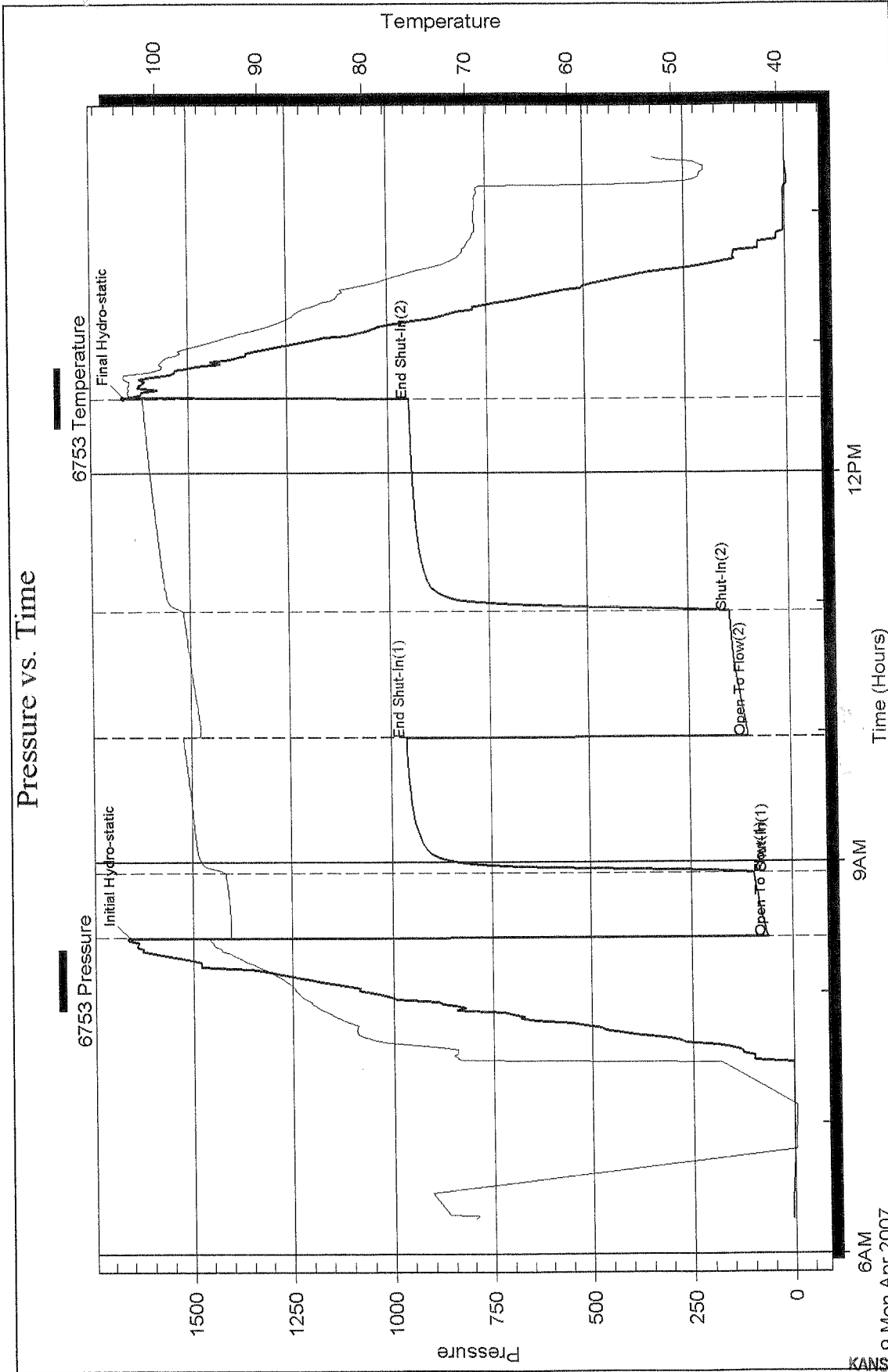
9 9S 18W Rooks KS

Murfin Drilling Co Inc

Inside

Serial #: 6753

Pressure vs. Time



Ref. No: 28158

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White Testing, Inc

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WICHITA, KS