

15-065-23304

14-10s-24w

MD

CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

14 10 24 Graham KS

Gottl Trust #2-14

Start Date: 2007.06.09 @ 01:34:30

End Date: 2007.06.09 @ 09:10:54

Job Ticket #: 28544 DST #: 1

CONFIDENTIAL
OCT 03 2007
KCC

Murfin Drilling Co Inc

Gottl Trust #2-14

14 10 24 Graham KS

DST # 1

Toronto

2007.06.09

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

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KANSAS CORPORATION COMMISSION

OCT 09 2007

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Golti Trust #2-14

250 N Water Ste 300
Wichita KS 67202

14 10 24 Graham KS

ATTN: Scott Robinson

Job Ticket: 28544

DST#: 1

Test Start: 2007.06.09 @ 01:34:30

Tool Information

Drill Pipe:	Length: 3697.00 ft	Diameter: 3.80 inches	Volume: 51.86 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3734.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.02 ft			
Tool Length:	74.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3707.00	
Shut In Tool	5.00			3712.00	
Hydraulic tool	5.00			3717.00	
Jars	5.00			3722.00	
Safety Joint	2.00			3724.00	
Packer	5.00			3729.00	28.00 Bottom Of Top Packer
Packer	5.00			3734.00	
Stubb	1.00			3735.00	
Recorder	0.01	6753	Inside	3735.01	
Perforations	9.00			3744.01	
Recorder	0.01	13534	Outside	3744.02	
Blank Spacing	33.00			3777.02	
Bullnose	3.00			3780.02	46.02 Bottom Packers & Anchor

Total Tool Length: 74.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Golti Trust #2-14
14 10 24 Graham KS
Job Ticket: 28544 **DST#: 1**
Test Start: 2007.06.09 @ 01:34:30

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.13 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	HO&GCM 30%O 5%G 65%M	0.358
0.00	75 ' GIP	0.000

Total Length: 45.00 ft Total Volume: 0.358 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6753

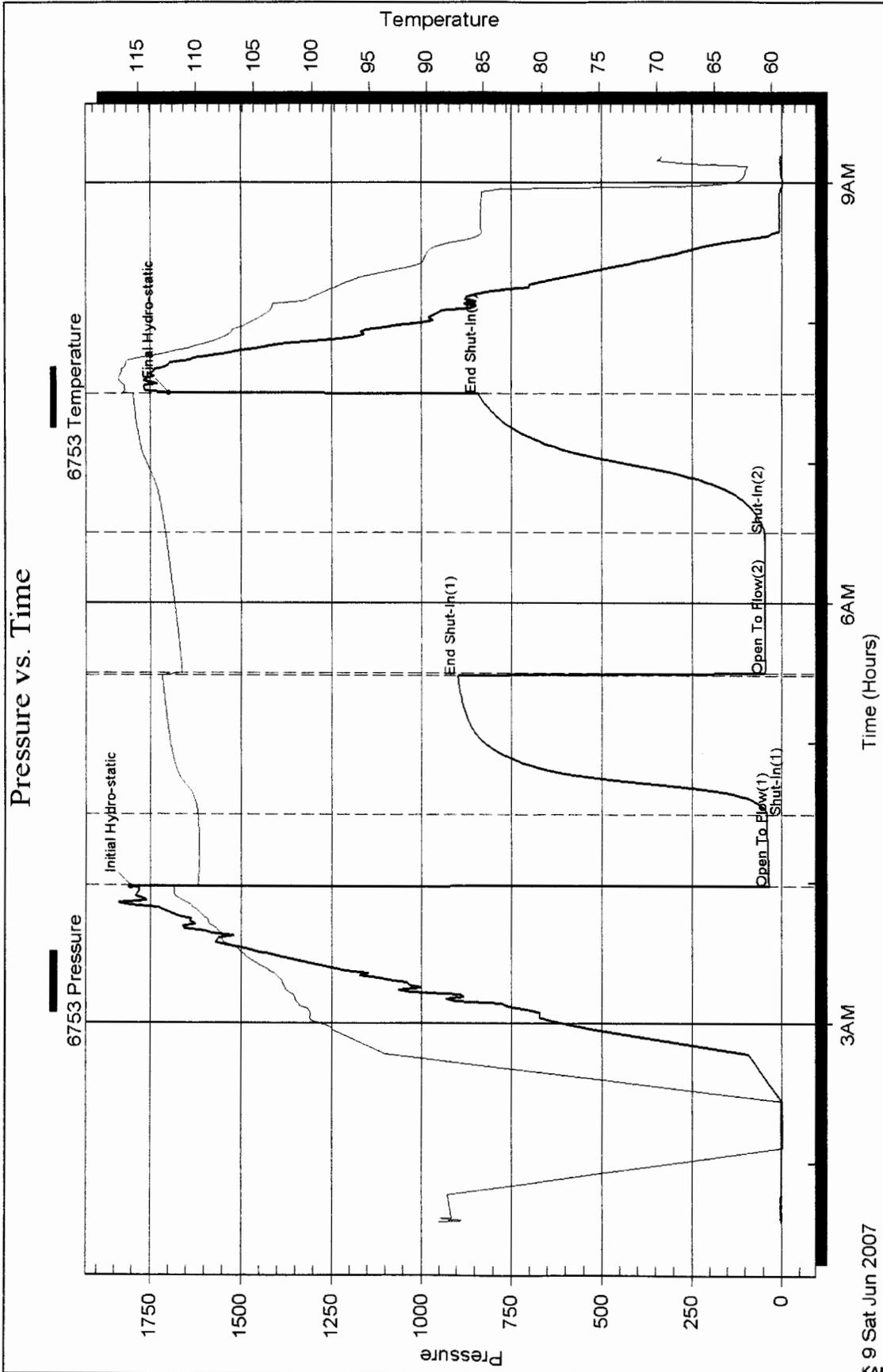
Inside

Murfin Drilling Co Inc

14 10 24 Graham KS

DST Test Number: 1

Pressure vs. Time

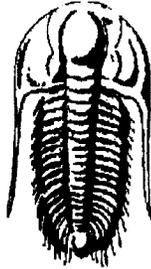


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OCT 09 2007
 CONSERVATION DIVISION
 WICHITA, KS

Ref. No: 28544

Printed: 2007.06.11 @ 13:42:07 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

14 10 24 Graham KS

Golti Trust #2-14

Start Date: 2007.06.09 @ 19:02:53

End Date: 2007.06.10 @ 02:01:47

Job Ticket #: 28546 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Golti Trust #2-14

14 10 24 Graham KS

DST # 2

LKC 100'

2007.06.09

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CONSERVATION DIVISION
WICHITA, KS

OCT 09 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

Golti Trust #2-14

14 10 24 Graham KS

Job Ticket: 28546

DST#: 2

Test Start: 2007.06.09 @ 19:02:53

GENERAL INFORMATION:

Formation: **LKC 100'**

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

Time Tool Opened: 20:51:48

Time Test Ended: 02:01:47

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3785.00 ft (KB) To 3875.00 ft (KB) (TVD)**

Reference Elevations: **2413.00 ft (KB)**

Total Depth: **3875.00 ft (KB) (TVD)**

2408.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

Serial #: 6753

Inside

Press@RunDepth: **128.29 psig @ 3788.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2007.06.09**

End Date:

2007.06.10

Last Calib.: **2007.06.10**

Start Time: **19:02:53**

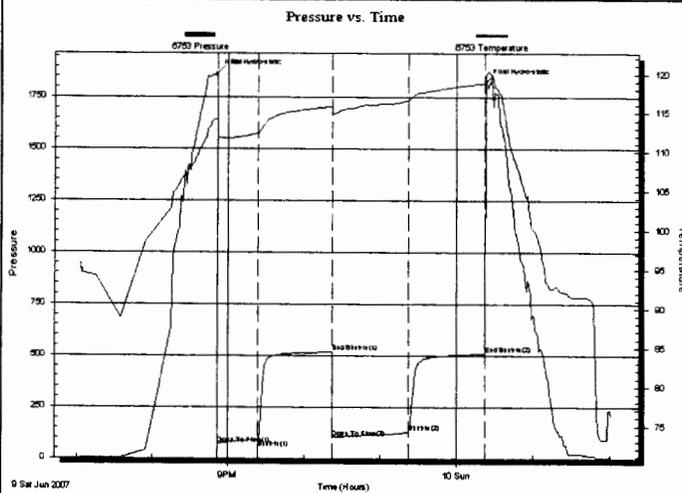
End Time:

02:01:47

Time On Btm: **2007.06.09 @ 20:51:18**

Time Off Btm: **2007.06.10 @ 00:23:17**

TEST COMMENT: IFP Wk to a fr bl 1/2 " to 4 3/4 " bl
FFP Wk bl thru-out 1/4 " to 2 " bl
Times 30 60 60 60
No bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.55	114.25	Initial Hydro-static
1	70.60	111.95	Open To Flow (1)
32	93.39	112.38	Shut-In(1)
91	516.78	115.83	End Shut-In(1)
92	102.51	114.95	Open To Flow (2)
151	128.29	116.59	Shut-In(2)
212	507.67	118.80	End Shut-In(2)
212	1825.24	119.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&GCM 5%G 10%O 85%M	0.57
90.00	HO&GCM 5%G 20%O 75%M	1.26
1.00	CO	0.01
0.00		0.00

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

Golti Trust #2-14

14 10 24 Graham KS

Job Ticket: 28546

DST#: 2

Test Start: 2007.06.09 @ 19:02:53

Tool Information

Drill Pipe:	Length: 3758.00 ft	Diameter: 3.80 inches	Volume: 52.71 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 52.86 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3785.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.02 ft				
Tool Length:	118.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:	slid tool 2' to bottom				

Tool Description

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	2.00			3788.00	
Recorder	0.01	6753	Inside	3788.01	
Blank Spacing	64.00			3852.01	
Recorder	0.01	13534	Outside	3852.02	
Perforations	20.00			3872.02	
Bullnose	3.00			3875.02	90.02 Bottom Packers & Anchor

Total Tool Length: 118.02

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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
ATTN: Scott Robinson

Golti Trust #2-14
14 10 24 Graham KS
Job Ticket: 28546 DST#: 2
Test Start: 2007.06.09 @ 19:02:53

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O&GCM 5%G 10%O 85%M	0.568
90.00	HO&GCM 5%G 20%O 75%M	1.262
1.00	CO	0.014
0.00		0.000

Total Length: 151.00 ft Total Volume: 1.844 bbl

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

DST Test Number: 2

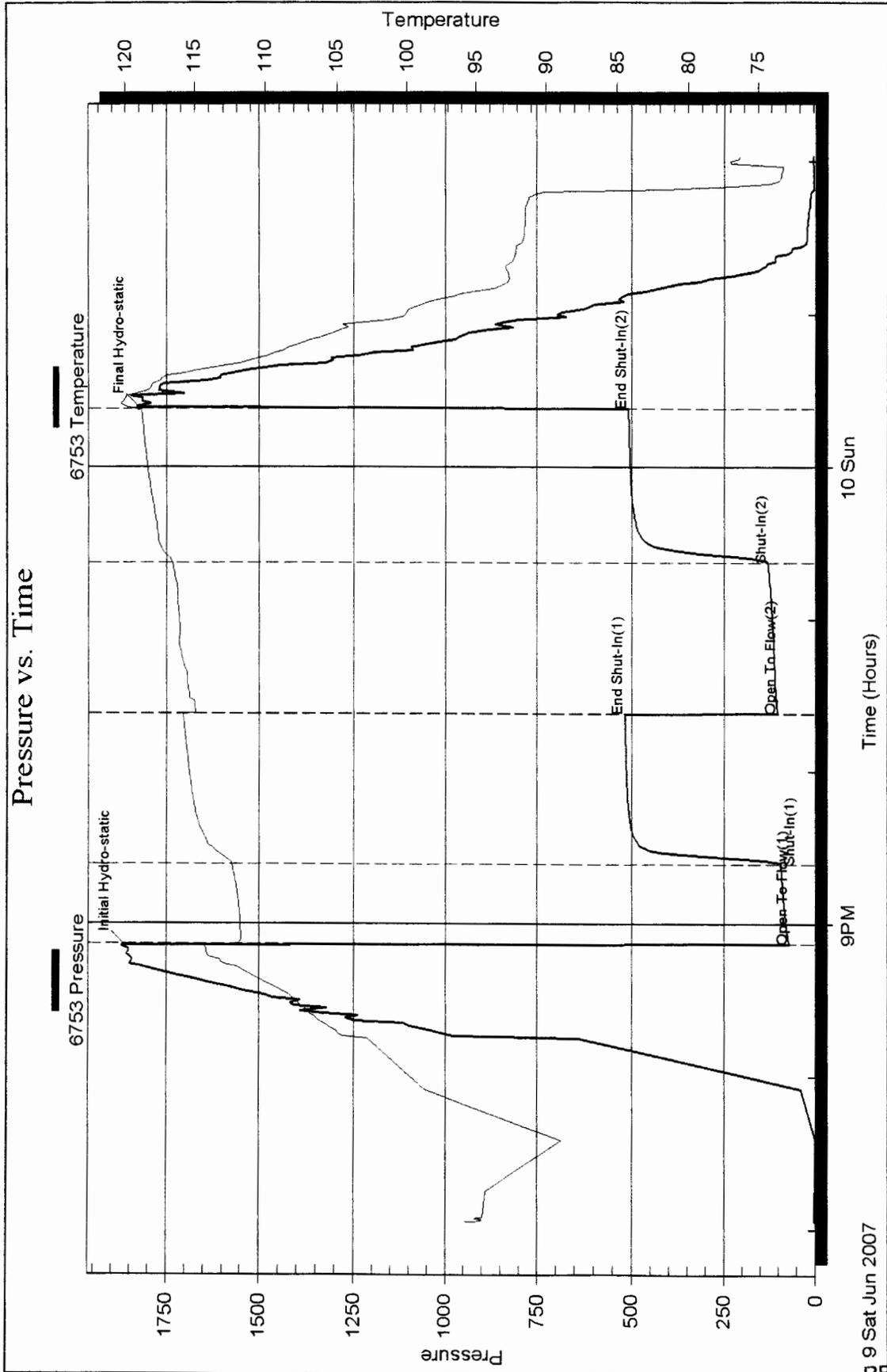
14 10 24 Graham KS

Murfin Drilling Co Inc

Inside

Serial #: 6753

Pressure vs. Time



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CONSERVATION DIVISION WICHITA, KS

Ref. No: 28546

Trilobite 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

14 10 24 Graham KS

Golti Trust #2-14

Start Date: 2007.06.10 @ 11:03:02

End Date: 2007.06.10 @ 18:39:26

Job Ticket #: 28547 DST #: 3

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

Golti Trust #2-14

14 10 24 Graham KS

DST # 3

LKC H-K

2007.06.10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Golti Trust #2-14

14 10 24 Graham KS

Job Ticket: 28547

DST#: 3

Test Start: 2007.06.10 @ 11:03:02

GENERAL INFORMATION:

Formation: **LKC H-K**

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

Time Tool Opened: 12:53:27

Time Test Ended: 18:39:26

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3876.00 ft (KB) To 3968.00 ft (KB) (TVD)**

Total Depth: **3968.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2413.00 ft (KB)**

2408.00 ft (CF)

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

Serial #: 6753

Inside

Press@RunDepth: **94.25 psig @ 3880.01 ft (KB)**

Start Date: **2007.06.10**

End Date:

2007.06.10

Capacity: **7000.00 psig**

Last Calib.: **2007.06.10**

Start Time: **11:03:02**

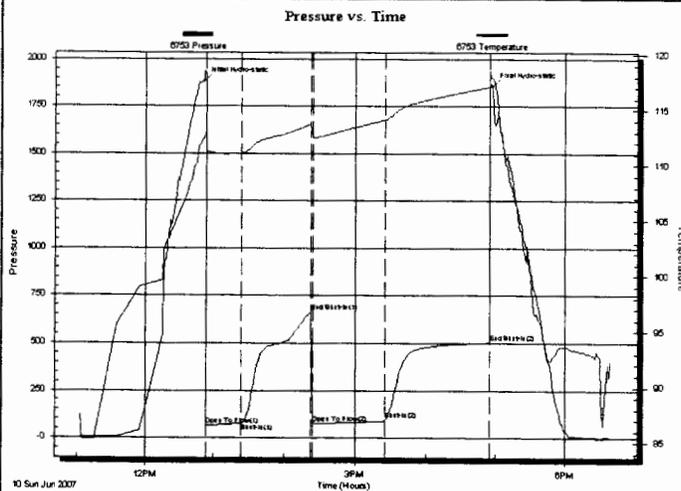
End Time:

18:39:26

Time On Btm: **2007.06.10 @ 12:51:27**

Time Off Btm: **2007.06.10 @ 16:56:56**

TEST COMMENT: IFP Wk to a fr bl 1/2' to 3 1/2' bl
FFP Wk to a gd bl 1" to 8" bl
Times 30 60 60 90
No bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.13	112.46	Initial Hydro-static
2	67.92	111.27	Open To Flow (1)
33	74.71	111.09	Shut-In (1)
92	669.07	113.75	End Shut-In (1)
93	77.59	112.50	Open To Flow (2)
154	94.25	114.15	Shut-In (2)
243	504.14	117.10	End Shut-In (2)
246	1857.38	117.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	HO&GCM 15%G 25%M 60%M	0.78
0.00	345' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Golti Trust #2-14

250 N Water Ste 300
Wichita KS 67202

14 10 24 Graham KS

Job Ticket: 28547

DST#: 3

ATTN: Scott Robinson

Test Start: 2007.06.10 @ 11:03:02

Tool Information

Drill Pipe:	Length: 3848.00 ft	Diameter: 3.80 inches	Volume: 53.98 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 54.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3876.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	91.02 ft				
Tool Length:	119.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3849.00	
Shut In Tool	5.00			3854.00	
Hydraulic tool	5.00			3859.00	
Jars	5.00			3864.00	
Safety Joint	2.00			3866.00	
Packer	5.00			3871.00	28.00 Bottom Of Top Packer
Packer	5.00			3876.00	
Stubb	1.00			3877.00	
Perforations	3.00			3880.00	
Recorder	0.01	6753	Inside	3880.01	
Blank Spacing	64.00			3944.01	
Recorder	0.01	13534	Outside	3944.02	
Perforations	20.00			3964.02	
Bullnose	3.00			3967.02	91.02 Bottom Packers & Anchor

Total Tool Length: 119.02

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Golti Trust #2-14

250 N Water Ste 300
Wichita KS 67202

14 10 24 Graham KS

Job Ticket: 28547

DST#: 3

ATTN: Scott Robinson

Test Start: 2007.06.10 @ 11:03:02

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	HO&GCM 15%G 25%M 60%M	0.779
0.00	345' GIP	0.000

Total Length: 75.00 ft Total Volume: 0.779 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

DST Test Number: 3

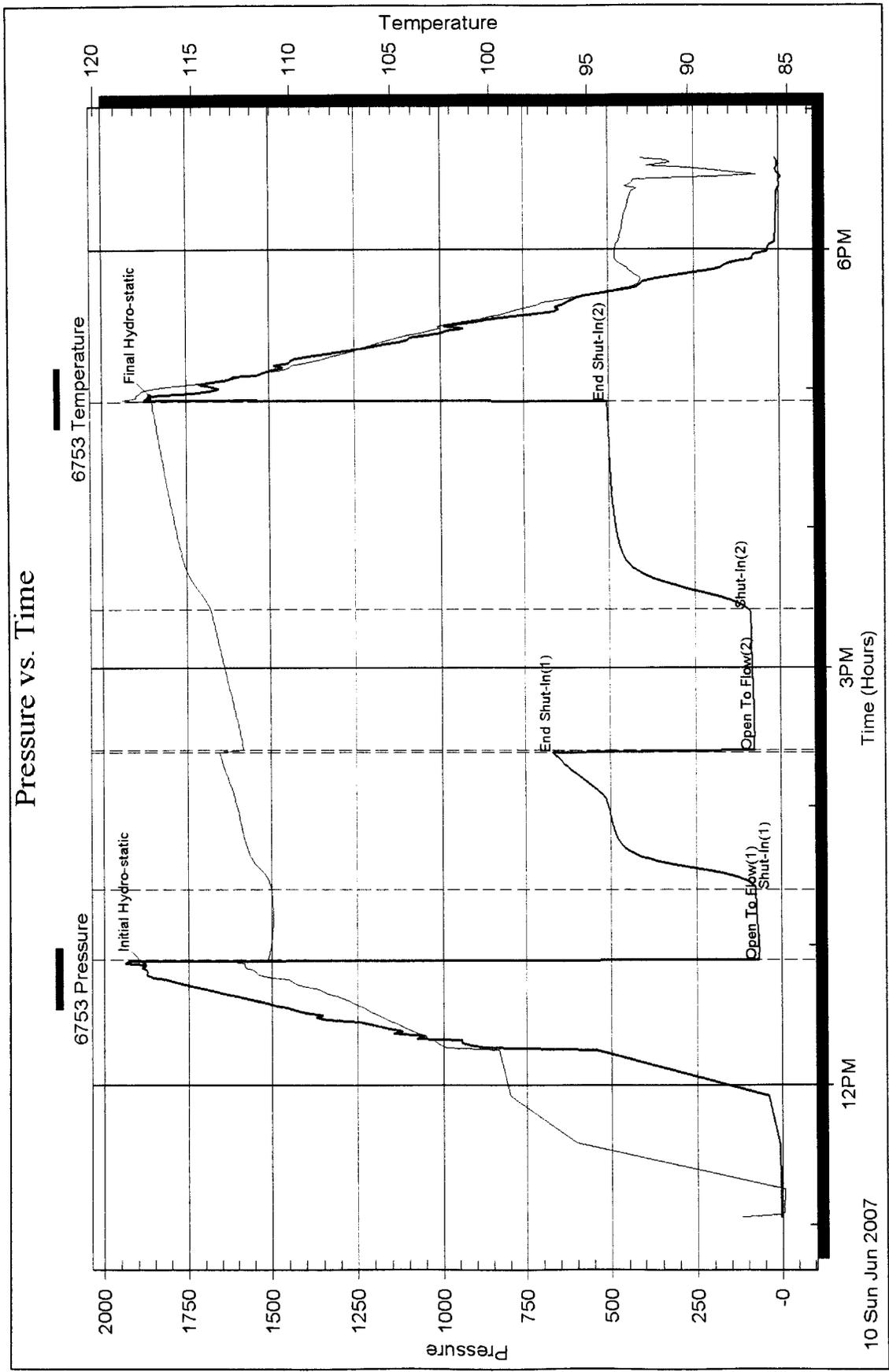
14 10 24 Graham KS

Murfin Drilling Co Inc

Inside

Serial #: 6753

Pressure vs. Time



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CONSERVATION DIVISION

Ref. No: 28547

Trilobite Testing, Inc