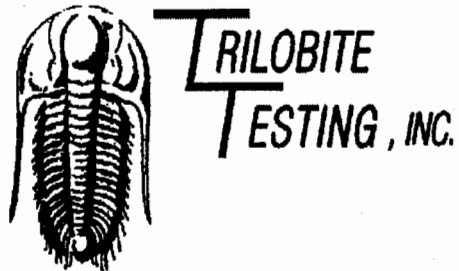


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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3

Start Date: 2004.12.10 @ 05:11:03

End Date: 2004.12.10 @ 11:42:03

Job Ticket #: 20235 DST #: 1

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

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Murfin Drilling Company, Inc

Worcester #1-3

3-7s-22w-Graham

DST # 1

Lansing "B"

2004.12.10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc
 250 N. Water
 Ste. 300
 Wichita, KS. 67202
 ATTN: Paul Gunzelman

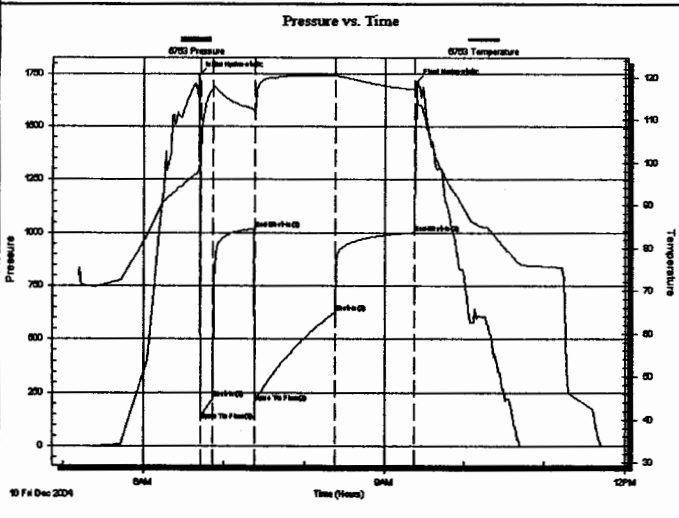
Worcester #1-3
3-7s-22w-Graham
 Job Ticket: 20235 **DST#: 1**
 Test Start: 2004.12.10 @ 05:11:03

GENERAL INFORMATION:

Formation: **Lansing "B"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 06:42:33
 Time Test Ended: 11:42:03
 Test Type: **Conventional Bottom Hole**
 Tester: **Jason McLemore**
 Unit No: **24**
 Interval: **3529.00 ft (KB) To 3552.00 ft (KB) (TVD)**
 Total Depth: **3552.00 ft (KB) (TVD)**
 Reference Elevations: **2269.00 ft (KB)**
2264.00 ft (CF)
 Hole Diameter: **7.80 inches** Hole Condition: **Good**
 KB to GR/CF: **5.00 ft**

Serial #: 6753 **Inside**
 Press@RunDepth: **624.13 psig @ 3531.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.12.10** End Date: **2004.12.10** Last Calib.: **1899.12.30**
 Start Time: **05:11:08** End Time: **11:42:02** Time On Btm: **2004.12.10 @ 06:41:33**
 Time Off Btm: **2004.12.10 @ 09:23:33**

TEST COMMENT: FFP-Strong Blow ,BOB in 3 Min.
 ISI-After 5 Min Blow back Built to 1/8", Lasted throughout.
 FFP-Strong Blow ,BOB in 4 Min.
 FSI-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.62	98.69	Initial Hydro-static
1	120.31	101.86	Open To Flow (1)
11	224.08	117.48	Shut-In(1)
41	1018.71	112.38	End Shut-In(1)
42	204.22	111.91	Open To Flow (2)
102	624.13	120.39	Shut-In(2)
161	1001.36	117.11	End Shut-In(2)
162	1707.99	116.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1259.00	Water	15.99
1.00	Oil	0.01

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Worcester #1-3

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

3-7s-22w-Graham
Job Ticket: 20235 **DST#: 1**
Test Start: 2004.12.10 @ 05:11:03

Tool Information


Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 bbl	Tool Weight: 1800.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3529.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 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			3507.00	
Shut In Tool	5.00			3512.00	
Hydraulic tool	5.00			3517.00	
Safety Joint	2.00			3519.00	
Packer	5.00			3524.00	23.00 Bottom Of Top Packer
Packer	5.00			3529.00	
Stubb	1.00			3530.00	
Perforations	1.00			3531.00	
Recorder	0.00	6753	Inside	3531.00	
Perforations	18.00			3549.00	
Recorder	0.00	13252	Outside	3549.00	
Bullnose	3.00			3552.00	23.00 Bottom Packers & Anchor

Total Tool Length: 46.00

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 TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT		FLUID SUMMARY										
		Murfin Drilling Company, Inc 250 N. Water Ste. 300 Wichita, KS. 67202 ATTN: Paul Gunzelman		Worcester #1-3 3-7s-22w-Graham Job Ticket: 20235 Test Start: 2004.12.10 @ 05:11:03		DST#: 1								
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:	61000 ppm									
Viscosity:	50.00 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:	1.00 inches													
Recovery Information														
Recovery Table														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 55%;">Description</th> <th style="width: 30%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1259.00</td> <td>Water</td> <td style="text-align: center;">15.993</td> </tr> <tr> <td style="text-align: center;">1.00</td> <td>Oil</td> <td style="text-align: center;">0.014</td> </tr> </tbody> </table>						Length ft	Description	Volume bbl	1259.00	Water	15.993	1.00	Oil	0.014
Length ft	Description	Volume bbl												
1259.00	Water	15.993												
1.00	Oil	0.014												
Total Length:	1260.00 ft	Total Volume:	16.007 bbl											
Num Fluid Samples:	0	Num Gas Bombs:	0	Serial #:										
Laboratory Name:		Laboratory Location:												
Recovery Comments:														

DST Test Number: 1

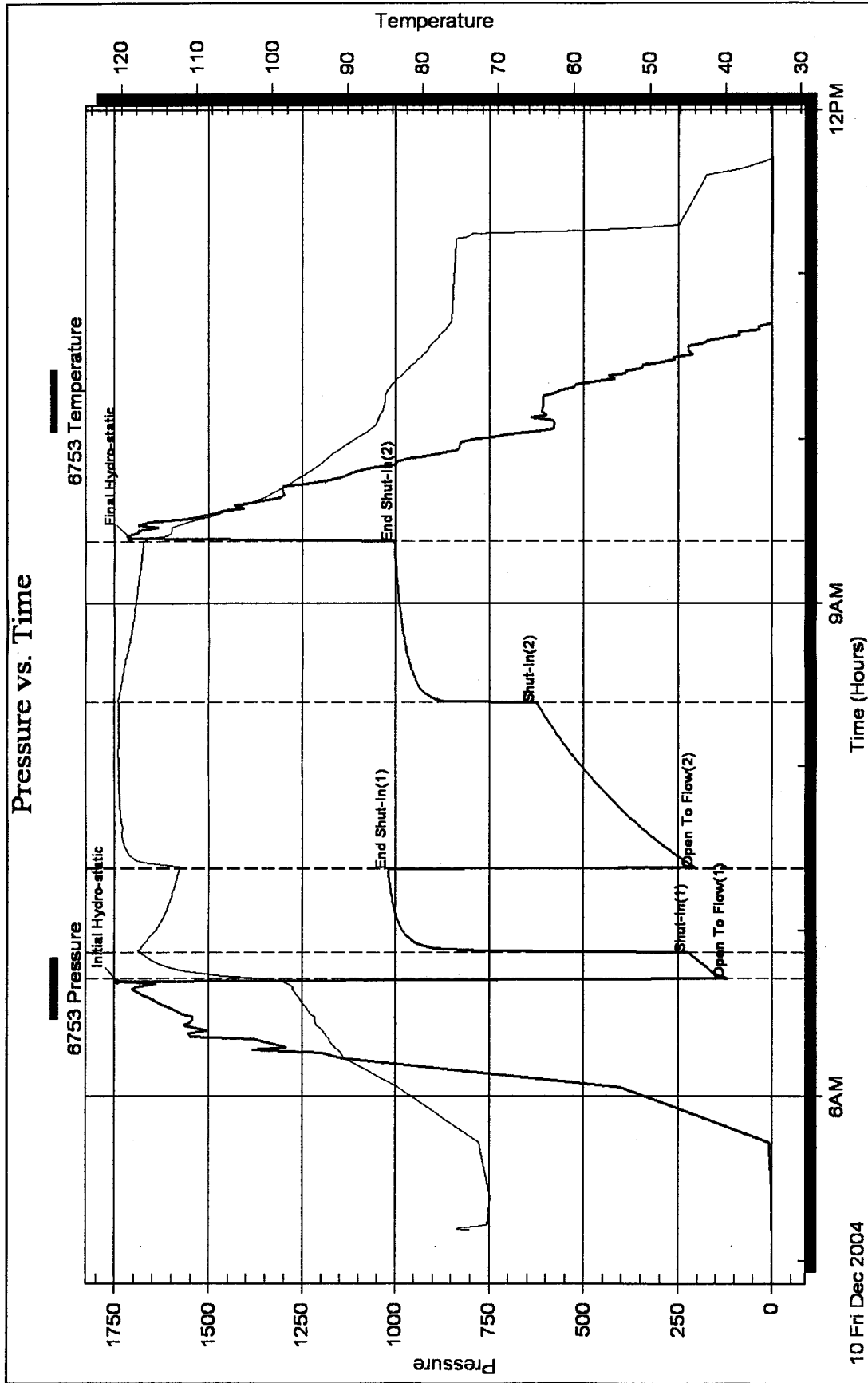
3-7s-22w -Graham

Murfin Drilling Company, Inc

Inside

Serial #: 6753

Pressure vs. Time



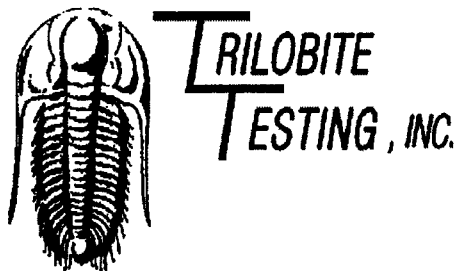
10 Fri Dec 2004 6AM 9AM 12PM

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Microbrite Testing, Inc

Ref. No: 20235

Printed: 2004.12.16 @ 13:58:00 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3

Start Date: 2004.12.11 @ 05:12:23

End Date: 2004.12.11 @ 11:27:53

Job Ticket #: 20236 DST #: 2

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc
250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

Worcester #1-3
3-7s-22w-Graham
Job Ticket: 20236 DST#: 2
Test Start: 2004.12.11 @ 05:12:23

Tool Information

Drill Pipe:	Length: 3363.00 ft	Diameter: 3.80 inches	Volume: 47.17 bbl	Tool Weight: 1800.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3550.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			3528.00	
Shut In Tool	5.00			3533.00	
Hydraulic tool	5.00			3538.00	
Safety Joint	2.00			3540.00	
Packer	5.00			3545.00	23.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Recorder	0.00	6753	Inside	3552.00	
Perforations	15.00			3567.00	
Recorder	0.00	13252	Outside	3567.00	
Bullnose	3.00			3570.00	20.00 Bottom Packers & Anchor

Total Tool Length: 43.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc
250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

Worcester #1-3
3-7s-22w-Graham
Job Ticket: 20236 **DST#: 2**
Test Start: 2004.12.11 @ 05:12:23

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
870.00	Water W/Show Of Oil on Top	10.537

Total Length: 870.00 ft Total Volume: 10.537 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6753

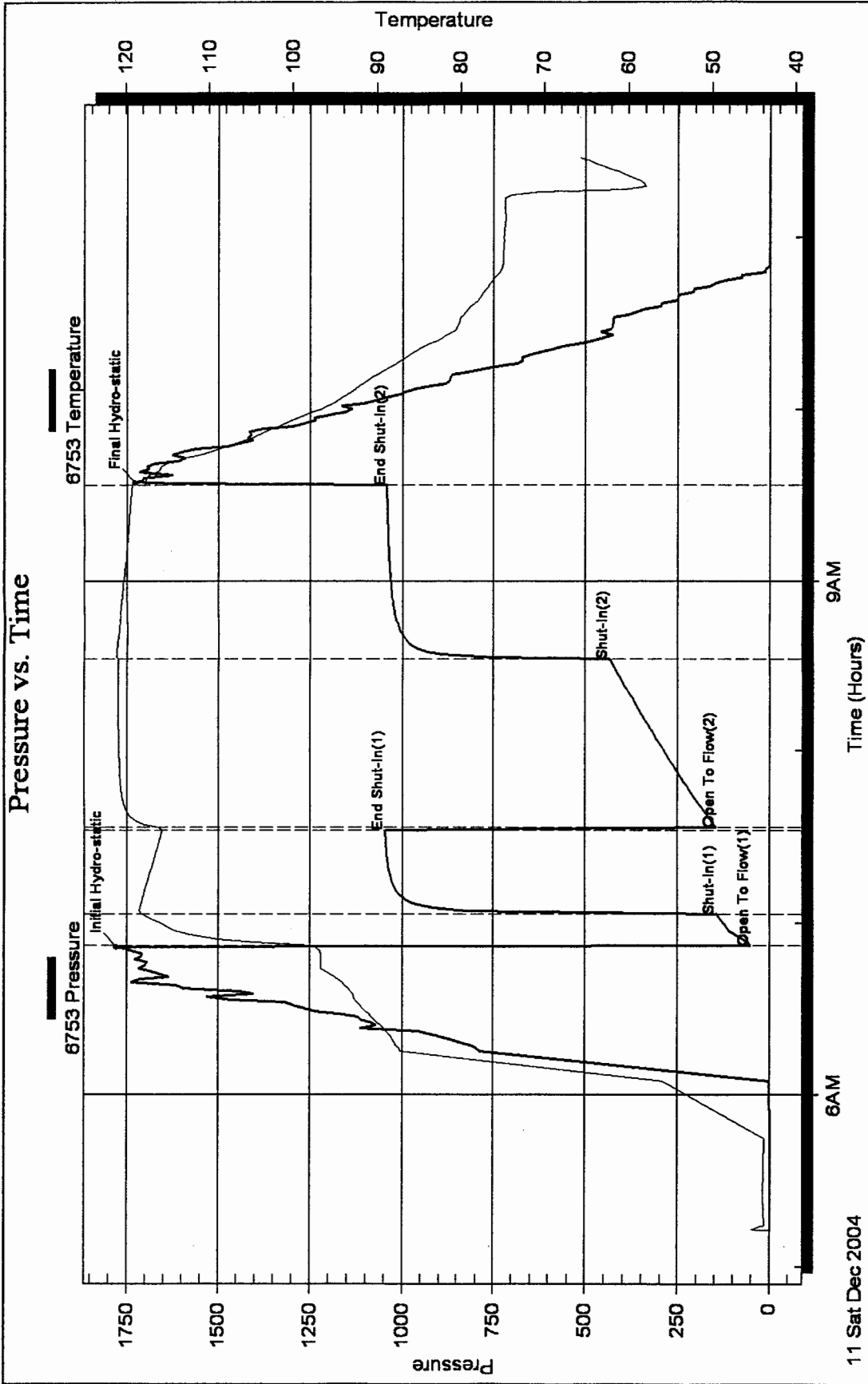
Inside

Murfin Drilling Company, Inc

3-7s-22w-Graham

DST Test Number: 2

Pressure vs. Time



11 Sat Dec 2004

6AM

9AM

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Triobite Testing, Inc

Ref. No: 20236

Printed: 2004.12.16 @ 13:59:35 Page 5

125286



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3

Start Date: 2004.12.11 @ 16:48:52

End Date: 2004.12.11 @ 22:21:22

Job Ticket #: 20237 DST #: 3

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc
250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

Worcester #1-3
3-7s-22w-Graham
Job Ticket: 20237 DST#: 3
Test Start: 2004.12.11 @ 16:48:52

Tool Information


Drill Pipe:	Length: 3395.00 ft	Diameter: 3.80 inches	Volume: 47.62 bbl	Tool Weight: 1500.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 48.52 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 39500.00 lb
Depth to Top Packer:	3568.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	31.00 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	
Safety Joint	2.00			3558.00	
Packer	5.00			3563.00	23.00 Bottom Of Top Packer
Packer	5.00			3568.00	
Stubb	1.00			3569.00	
Perforations	1.00			3570.00	
Recorder	0.00	6753	Inside	3570.00	
Perforations	3.00			3573.00	
Recorder	0.00	13252	Outside	3573.00	
Bullnose	3.00			3576.00	8.00 Bottom Packers & Anchor

Total Tool Length: 31.00

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 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY
	Murfin Drilling Company, Inc 250 N. Water Ste. 300 Wichita, KS. 67202 ATTN: Paul Gunzelman	Worcester #1-3 3-7s-22w-Graham Job Ticket: 20237 Test Start: 2004.12.11 @ 16:48:52	DST#: 3

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 50.00 sec/qt Water Loss: 6.38 in ³ Resistivity: ohm.m Salinity: 1400.00 ppm Filter Cake: 1.00 inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: deg API Water Salinity: 43000 ppm
---	---	---

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Muddy Water 95%W-5%M	0.738

Total Length: 150.00 ft Total Volume: 0.738 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

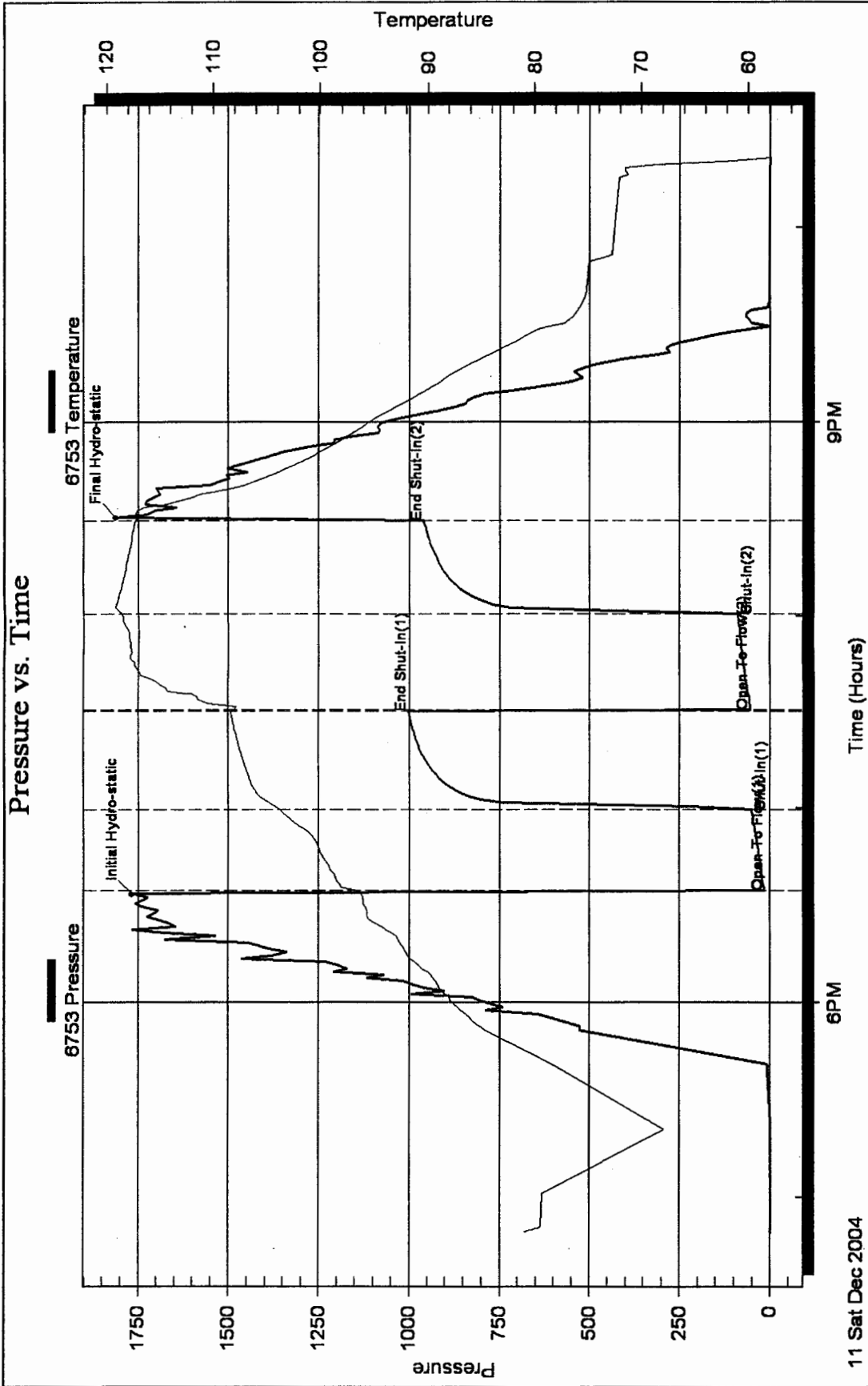
Serial #: 6753

Inside

Murfin Drilling Company, Inc

3-7s-22w -Graham

DST Test Number: 3



11 Sat Dec 2004

6PM

Time (Hours)

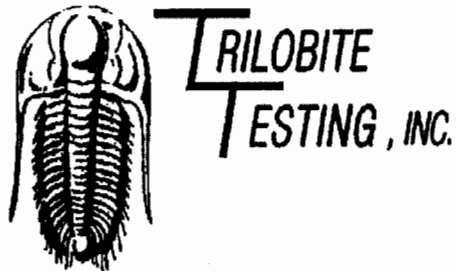
9PM

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Trilobite Testing, Inc

Ref. No: 20237

Printed: 2004.12.16 @ 13:59:51 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3


Start Date: 2004.12.12 @ 09:34:20

End Date: 2004.12.12 @ 18:02:20

Job Ticket #: 20238 DST #: 4

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

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

Worcester #1-3

3-7s-22w-Graham

Job Ticket: 20238 DST#: 4

Test Start: 2004.12.12 @ 09:34:20

GENERAL INFORMATION:

Formation: **Lansing "H-J"**

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

Time Tool Opened: 11:29:20

Time Test Ended: 18:02:20

Interval: **3618.00 ft (KB) To 3676.00 ft (KB) (TVD)**

Total Depth: **3676.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **24**

Reference Elevations: **2269.00 ft (KB)**
2264.00 ft (CF)

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

Serial #: 6753 Inside

Press@RunDepth: **1223.34 psig @ 3621.00 ft (KB)**

Start Date: **2004.12.12** End Date: **2004.12.12**

Start Time: **09:34:25** End Time: **18:02:19**

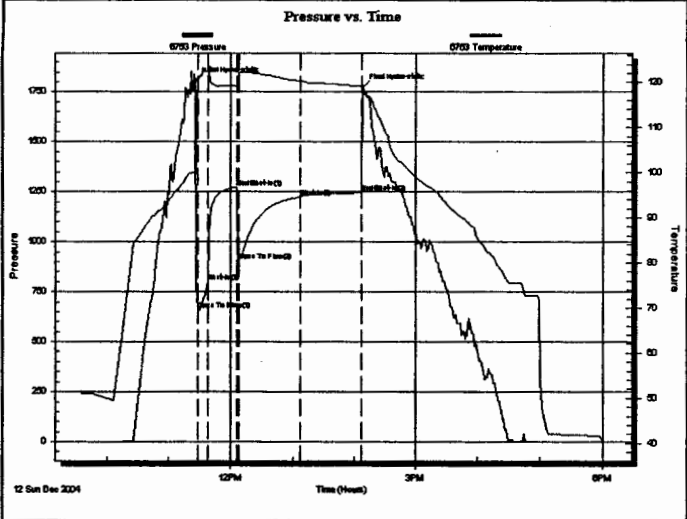
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.12.12 @ 11:26:20**

Time Off Btm: **2004.12.12 @ 14:07:50**

TEST COMMENT: FFP-Strong Blow, BOB in 30 Sec.
ISI-Dead
FFP-Strong Blow, BOB in 30 Sec.
FSI-Blow back Built to 9-1/2", Still Building.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.59	100.33	Initial Hydro-static
3	660.12	120.53	Open To Flow (1)
13	798.66	122.45	Shut-In(1)
41	1272.22	119.05	End Shut-In(1)
42	906.96	121.24	Open To Flow (2)
102	1223.34	120.26	Shut-In(2)
161	1245.26	119.07	End Shut-In(2)
162	1771.59	119.48	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
660.00	Salt Water	7.59
1660.00	OCMW-20%G-30%O-40%W-10%M	23.29
300.00	OCMW-20%G-25%O-25%W-30%M	4.21
30.00	Free Oil	0.42

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Worcester #1-3

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

3-7s-22w-Graham
Job Ticket: 20238 DST#: 4
Test Start: 2004.12.12 @ 09:34:20

Tool Information

Drill Pipe:	Length: 3426.00 ft	Diameter: 3.80 inches	Volume: 48.06 bbl	Tool Weight: 2700.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 51000.00 lb
			<u>Total Volume: 48.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3618.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	79.00 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			3598.00	
Shut In Tool	5.00			3603.00	
Hydraulic tool	5.00			3608.00	
Packer	5.00			3613.00	21.00 Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Perforations	1.00			3620.00	
Change Over Sub	1.00			3621.00	
Recorder	0.00	6753	Inside	3621.00	
Blank Spacing	31.00			3652.00	
Change Over Sub	1.00			3653.00	
Perforations	20.00			3673.00	
Recorder	0.00	13252	Outside	3673.00	
Bullnose	3.00			3676.00	58.00 Bottom Packers & Anchor

Total Tool Length: 79.00

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc
250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

Worcester #1-3
3-7s-22w-Graham
Job Ticket: 20238 **DST#: 4**
Test Start: 2004.12.12 @ 09:34:20

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	48000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

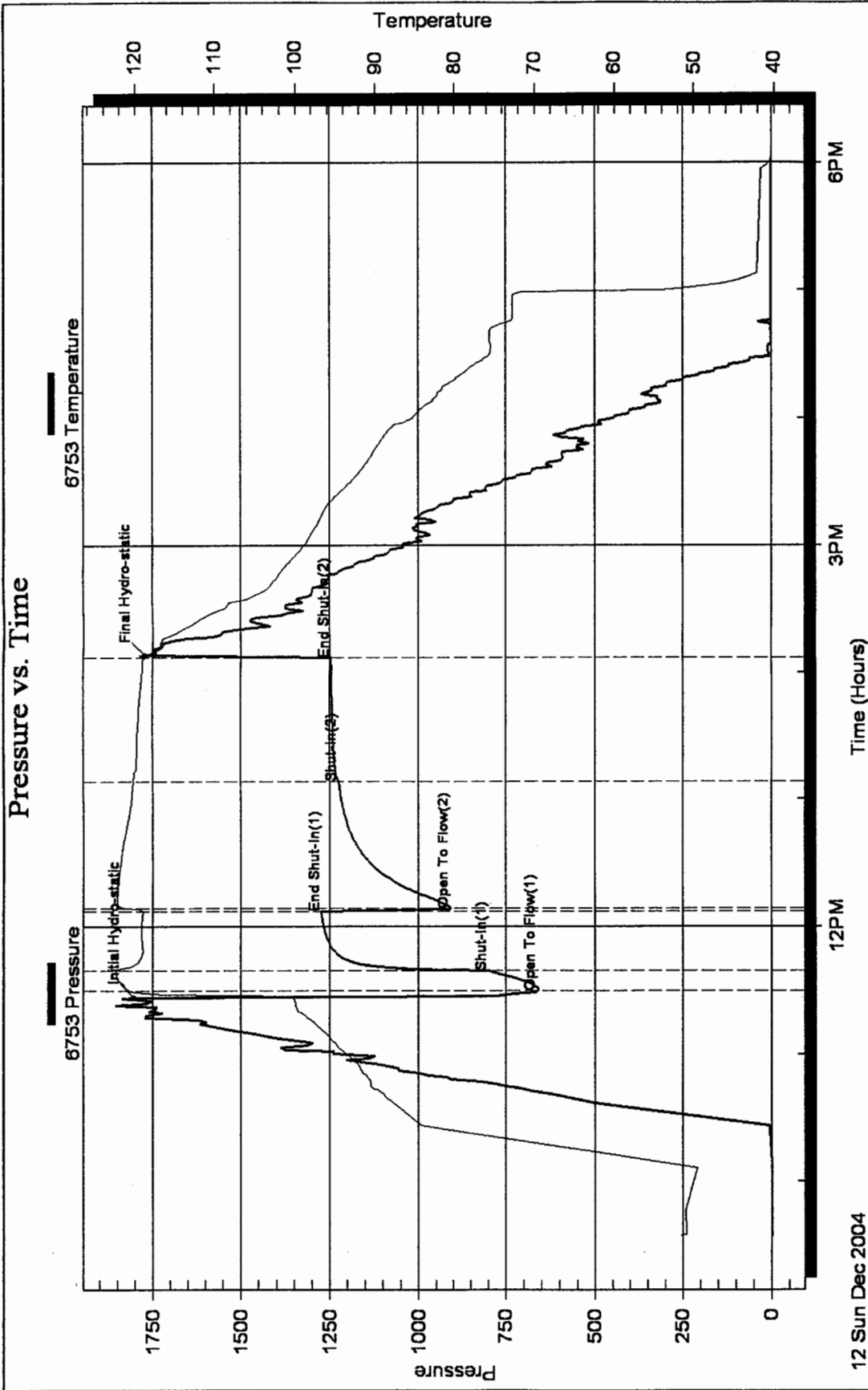
Length ft	Description	Volume bbl
660.00	Salt Water	7.591
1660.00	OCMW-20%G-30%O-40%W-10%M	23.285
300.00	OCMW-20%G-25%O-25%W-30%M	4.208
30.00	Free Oil	0.421

Total Length: 2650.00 ft Total Volume: 35.505 bbl

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

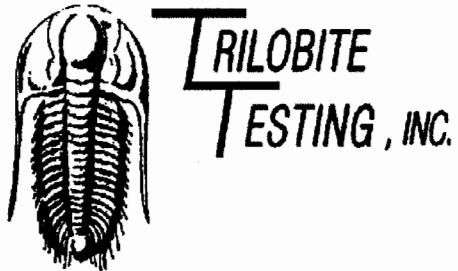
Laboratory Name: Laboratory Location:

Recovery Comments:



12 Sun Dec 2004

Ref. No: 20238
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3


Start Date: 2004.12.12 @ 18:00:30

End Date: 2004.12.13 @ 00:44:00

Job Ticket #: 20239 DST #: 5

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

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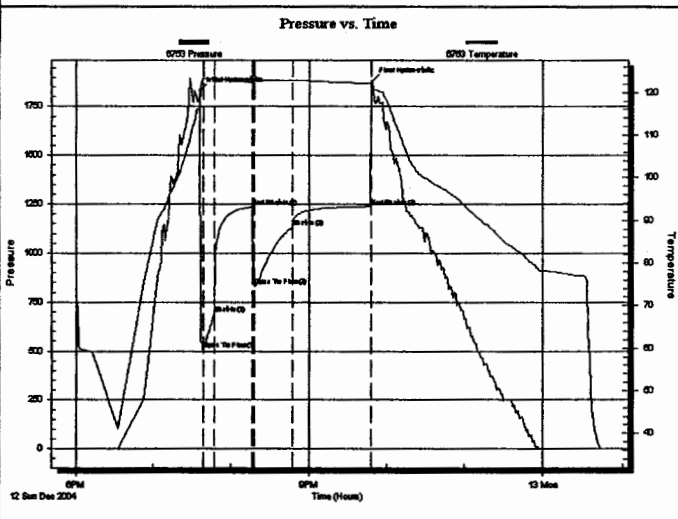
	DRILL STEM TEST REPORT	
	Murfin Drilling Company, Inc 250 N. Water Ste. 300 Wichita, KS. 67202 ATTN: Paul Gunzelman	Worcester #1-3 3-7s-22w-Graham Job Ticket: 20239 DST#: 5 Test Start: 2004.12.12 @ 18:00:30

GENERAL INFORMATION:

Formation: LKC-"J"	Test Type: Conventional Bottom Hole
Deviated: No Whipstock ft (KB)	Tester: Jason McLemore
Time Tool Opened: 19:38:30	Unit No: 24
Time Test Ended: 00:44:00	
Interval: 3661.00 ft (KB) To 3676.00 ft (KB) (TVD)	Reference Elevations: 2269.00 ft (KB)
Total Depth: 3676.00 ft (KB) (TVD)	2264.00 ft (CF)
Hole Diameter: 7.80 inches	Hole Condition: Good
	KB to GR/CF: 5.00 ft

Serial #: 6753	Inside				
Press@RunDepth: 1134.18 psig @ 3663.00 ft (KB)	Capacity: 7000.00 psig				
Start Date: 2004.12.12	End Date: 2004.12.13	Last Calib.: 1899.12.30			
Start Time: 18:00:35	End Time: 00:43:59	Time On Btm: 2004.12.12 @ 19:36:00			
		Time Off Btm: 2004.12.12 @ 21:48:30			

TEST COMMENT: FFP-Strong Blow ,BOB in 30 Sec.
 ISI-Gas To Surface on Blow down, Blow back Built to 1-1/4"
 FFP-Strong Blow , BOB in 30 Sec. Pressure at Surface 1-1/2#, To Weak To Guage
 FSI-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.46	116.35	Initial Hydro-static
3	509.61	123.23	Open To Flow (1)
11	690.77	123.16	Shut-In(1)
41	1234.95	122.32	End Shut-In(1)
42	833.51	123.07	Open To Flow (2)
71	1134.18	122.86	Shut-In(2)
132	1238.44	122.18	End Shut-In(2)
133	1878.07	121.15	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2310.00	Water with Oil Show on top	30.74

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Worcester #1-3

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

3-7s-22w-Graham
Job Ticket: 20239 DST#: 5
Test Start: 2004.12.12 @ 18:00:30


Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 1500.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3661.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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			3639.00	
Shut In Tool	5.00			3644.00	
Hydraulic tool	5.00			3649.00	
Safety Joint	2.00			3651.00	
Packer	5.00			3656.00	23.00 Bottom Of Top Packer
Packer	5.00			3661.00	
Stubb	1.00			3662.00	
Perforations	1.00			3663.00	
Recorder	0.00	6753	Inside	3663.00	
Perforations	10.00			3673.00	
Recorder	0.00	13252	Outside	3673.00	
Bullnose	3.00			3676.00	15.00 Bottom Packers & Anchor
Total Tool Length:	38.00				

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 <p style="font-size: 2em; margin: 0;">TRILOBITE</p> <p style="font-size: 1.5em; margin: 0;">TESTING, INC</p>	DRILL STEM TEST REPORT		FLUID SUMMARY
	Murfin Drilling Company, Inc 250 N. Water Ste. 300 Wichita, KS. 67202 ATTN: Paul Gunzelman	Worcester #1-3 3-7s-22w-Graham Job Ticket: 20239 DST#: 5 Test Start: 2004.12.12 @ 18:00:30	

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: 47000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume:	bbl	
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:	psig	
Salinity: 1400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2310.00	Water with Oil Show on top	30.736

Total Length: 2310.00 ft Total Volume: 30.736 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

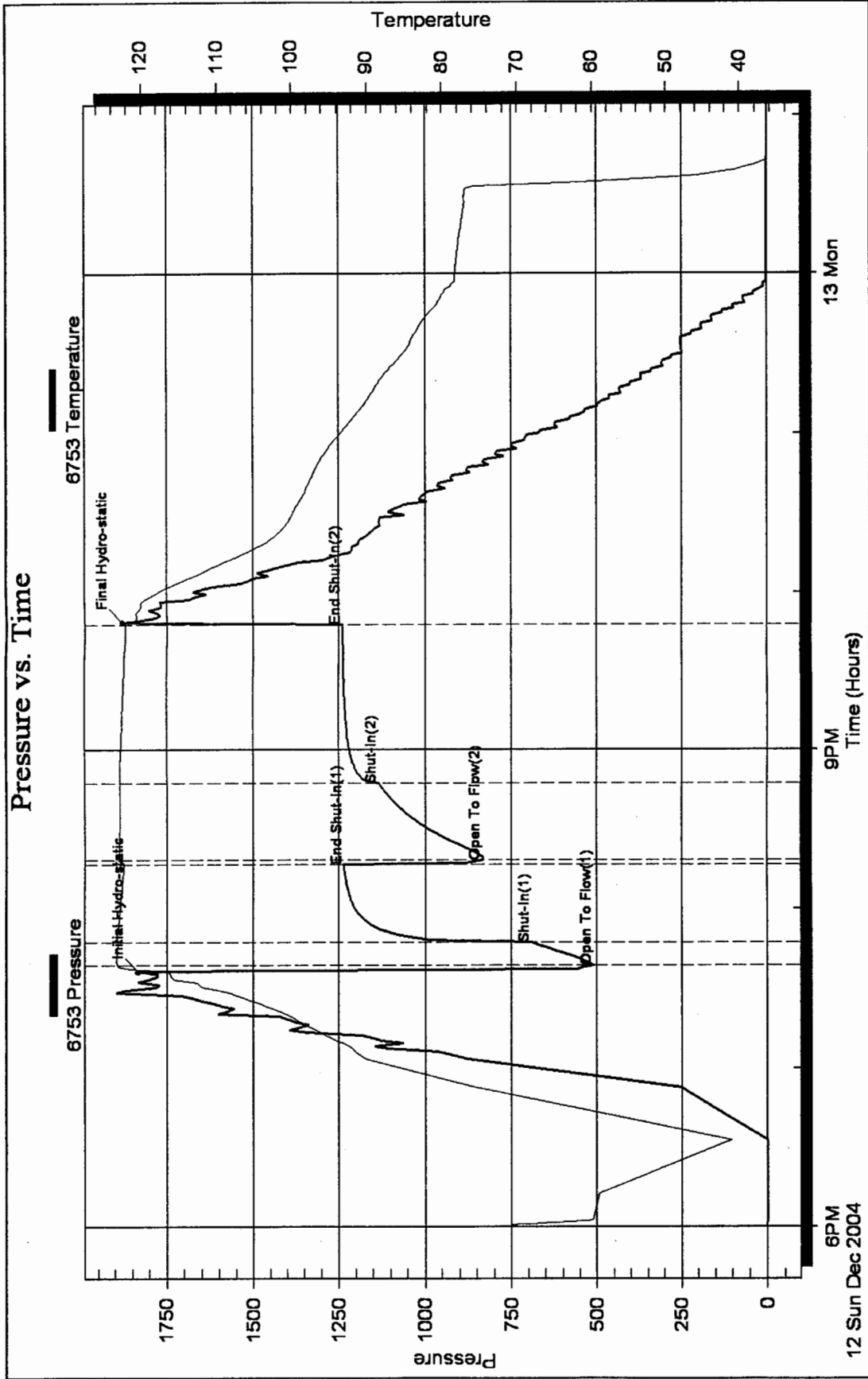
Serial #: 6753

Inside

Murfin Drilling Company, Inc

3-7s-22w -Graham

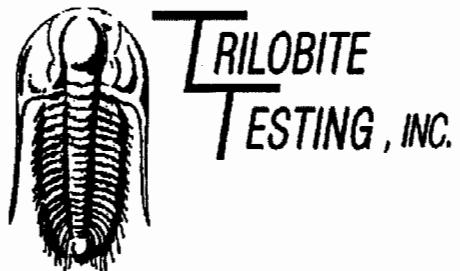
DST Test Number: 5



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Ref. No: 20239

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3

Start Date: 2004.12.13 @ 12:06:44

End Date: 2004.12.13 @ 18:16:44

Job Ticket #: 20240 DST #: 6

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

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Printed: 2004.12.16 @ 14:04:02 Page 1

Murfin Drilling Company, Inc


Worcester #1-3

3-7s-22w-Graham

DST # 6

LKC-"K-L"

2004.12.13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

Worcester #1-3

3-7s-22w-Graham

Job Ticket: 20240 DST#: 6

Test Start: 2004.12.13 @ 12:06:44

GENERAL INFORMATION:

Formation: LKC-"K-L"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:57:44
 Time Test Ended: 18:16:44

Interval: 3675.00 ft (KB) To 3699.00 ft (KB) (TVD)
 Total Depth: 3778.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Straddle
 Tester: Jason McLemore
 Unit No: 24

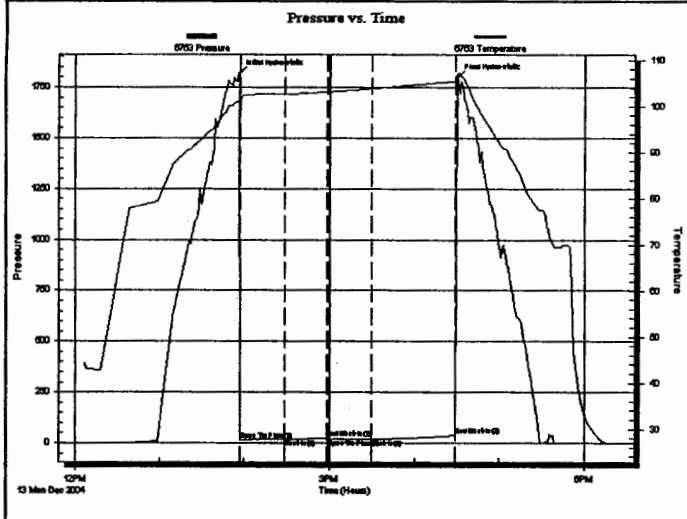
Reference Elevations: 2269.00 ft (KB)
 2264.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press@RunDepth: 19.16 psig @ 3677.00 ft (KB)
 Start Date: 2004.12.13 End Date: 2004.12.13
 Start Time: 12:06:49 End Time: 18:16:43

Capacity: 7000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2004.12.13 @ 13:57:14
 Time Off Btm: 2004.12.13 @ 16:30:14

TEST COMMENT: FFP-Weak Blow ,Built to 2"
 ISI-Dead
 FFP-Dead
 FSI-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.52	101.46	Initial Hydro-static
1	15.28	101.20	Open To Flow (1)
32	17.95	102.66	Shut-In(1)
61	24.20	103.10	End Shut-In(1)
62	18.29	103.12	Open To Flow (2)
93	19.16	103.85	Shut-In(2)
152	37.36	105.44	End Shut-In(2)
153	1798.95	107.03	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1259.00	Water	15.99
1.00	Oil	0.01

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Worcester #1-3

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

3-7s-22w-Graham
Job Ticket: 20240 DST#: 6
Test Start: 2004.12.13 @ 12:06:44

Tool Information

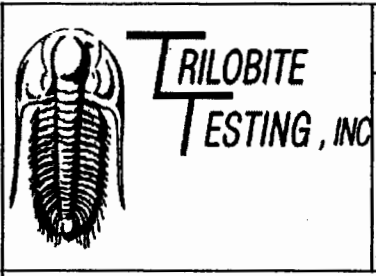
Drill Pipe:	Length: 3489.00 ft	Diameter: 3.80 inches	Volume: 48.94 bbl	Tool Weight: 3200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 49.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3675.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	3699.00 ft			
Interval between Packers:	24.00 ft			
Tool Length:	126.00 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			3653.00	
Shut In Tool	5.00			3658.00	
Hydraulic tool	5.00			3663.00	
Safety Joint	2.00			3665.00	
Packer	5.00			3670.00	23.00 Bottom Of Top Packer
Packer	5.00			3675.00	
Stubb	1.00			3676.00	
Perforations	1.00			3677.00	
Recorder	0.00	6753	Inside	3677.00	
Perforations	19.00			3696.00	
Blank Off Sub	1.00			3697.00	
Blank Spacing	2.00			3699.00	24.00 Tool Interval
Packer	1.00			3700.00	
Stubb	1.00			3701.00	
Change Over Sub	1.00			3702.00	
Blank Spacing	63.00			3765.00	
Change Over Sub	1.00			3766.00	
Perforations	9.00			3775.00	
Recorder	0.00	13252	Below	3775.00	
Bullnose	3.00			3778.00	79.00 Bottom Packers & Anchor

Total Tool Length: 126.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc
 250 N. Water
 Ste. 300
 Wichita, KS. 67202
 ATTN: Paul Gunzelman

Worcester #1-3
 3-7s-22w-Graham
 Job Ticket: 20240 DST#: 6
 Test Start: 2004.12.13 @ 12:06:44

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: 50.00 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: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1259.00	Water	15.993
1.00	Oil	0.014

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

Serial #: 6753

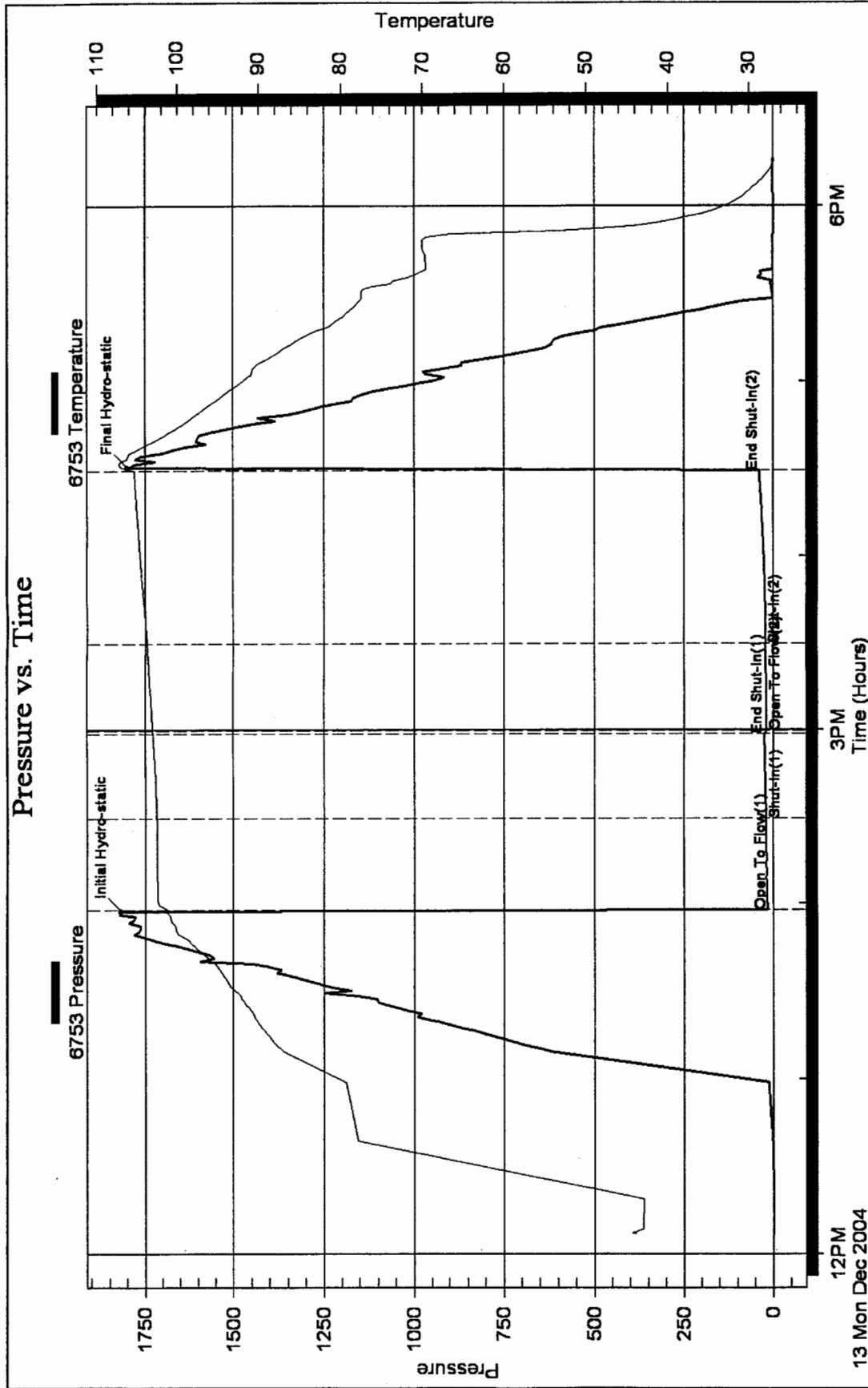
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Murfin Drilling Company, Inc

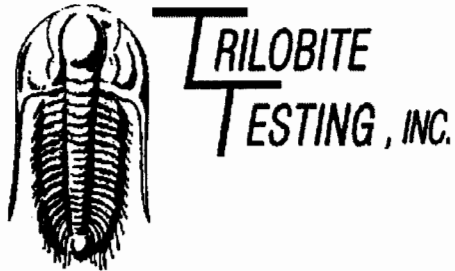
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DST Test Number: 6

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc**

250 N. Water
Ste. 300
Wichita, KS. 67202

ATTN: Paul Gunzelman

3-7s-22w-Graham

Worcester #1-3

Start Date: 2004.12.14 @ 13:56:47

End Date: 2004.12.14 @ 22:24:47

Job Ticket #: 20241 DST #: 7

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

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**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc

Worcester #1-3

250 N. Water
Ste. 300
Wichita, KS. 67202
ATTN: Paul Gunzelman

3-7s-22w-Graham

Job Ticket: 20241 DST#: 7

Test Start: 2004.12.14 @ 13:56:47

Tool Information

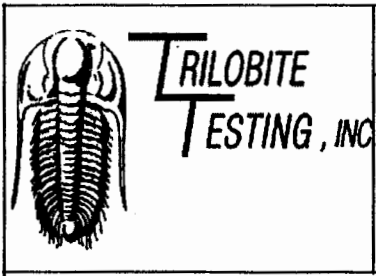
Drill Pipe:	Length: 3459.00 ft	Diameter: 3.80 inches	Volume: 48.52 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3647.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3660.00 ft			
Interval between Packers:	13.00 ft			
Tool Length:	251.00 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			3625.00	
Shut In Tool	5.00			3630.00	
Hydraulic tool	5.00			3635.00	
Safety Joint	2.00			3637.00	
Packer	5.00			3642.00	23.00 Bottom Of Top Packer
Packer	5.00			3647.00	
Stubb	1.00			3648.00	
Recorder	0.00	6753	Inside	3648.00	
Perforations	8.00			3656.00	
Blank Off Sub	1.00			3657.00	
Blank Spacing	3.00			3660.00	13.00 Tool Interval
Packer	1.00			3661.00	
Stubb	1.00			3662.00	
Change Over Sub	1.00			3663.00	
Blank Spacing	187.00			3850.00	
Change Over Sub	1.00			3851.00	
Perforations	21.00			3872.00	
Recorder	0.00	13252	Below	3872.00	
Bullhose	3.00			3875.00	215.00 Bottom Packers & Anchor

Total Tool Length: 251.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc
 250 N. Water
 Ste. 300
 Wichita, KS. 67202
 ATTN: Paul Gunzelman

Worcester #1-3
3-7s-22w-Graham
 Job Ticket: 20241 **DST#: 7**
 Test Start: 2004.12.14 @ 13:56:47

Mud and Cushion Information

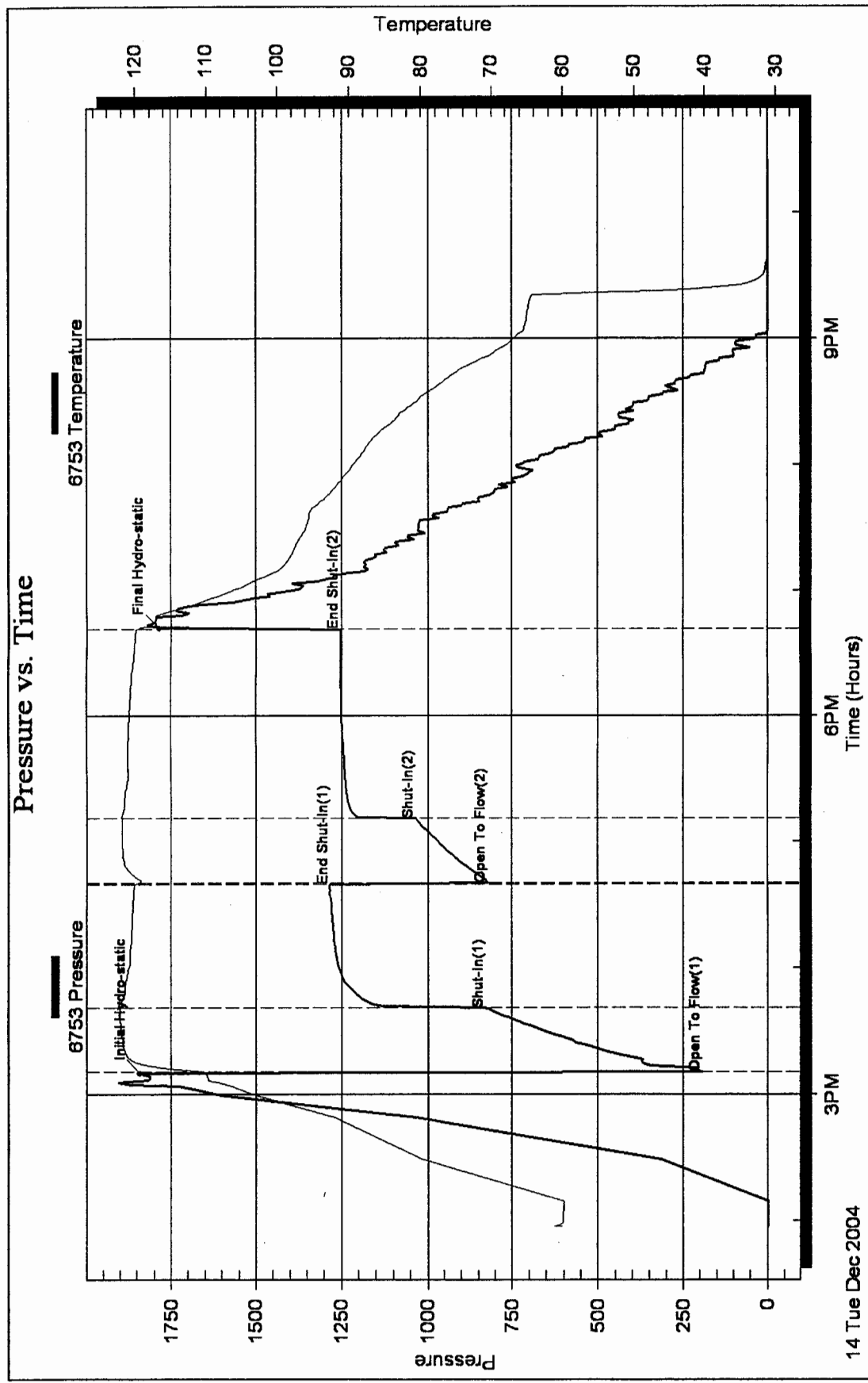
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	37000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Salt Water	4.224
1690.00	HOCMV-20%G-40%O-35%W-5%M	23.706
180.00	Free Oil	2.525
50.00	OCMV-20%G-25%O-40%W-15%M	0.701

Total Length: 2340.00 ft Total Volume: 31.156 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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