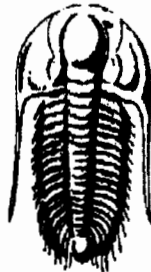


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27-5s-29w

IND



TRILOBITE
TESTING, INC.

CONFIDENTIAL

MAR 11 2008

KCC

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

27 5 29 Decatur KS

TEX #1-27

Start Date: 2007.11.19 @ 10:55:20

End Date: 2007.11.19 @ 18:05:59

Job Ticket #: 30656 DST #: 1

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

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MAR 12 2008

CONSERVATION DIVISION
WICHITA, KS

Murfin Drilling Company

TEX #1-27

27 5 29 Decatur KS

DST # 1

"C"

2007.11.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

TEX #1-27

27 5 29 Decatur KS

Job Ticket: 30656

DST#: 1

Test Start: 2007.11.19 @ 10:55:20

GENERAL INFORMATION:

Formation: "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:01:00

Time Test Ended: 18:05:59

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3930.00 ft (KB) To 3948.00 ft (KB) (TVD)

Total Depth: 3948.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2794.00 ft (KB)

2789.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Outside

Press@RunDepth: 19.93 psig @ 3931.00 ft (KB)

Start Date: 2007.11.19

End Date: 2007.11.19

Start Time: 10:55:22

End Time: 18:06:00

Capacity: 7000.00 psig

Last Calib.: 2007.11.19

Time On Btm: 2007.11.19 @ 13:00:40

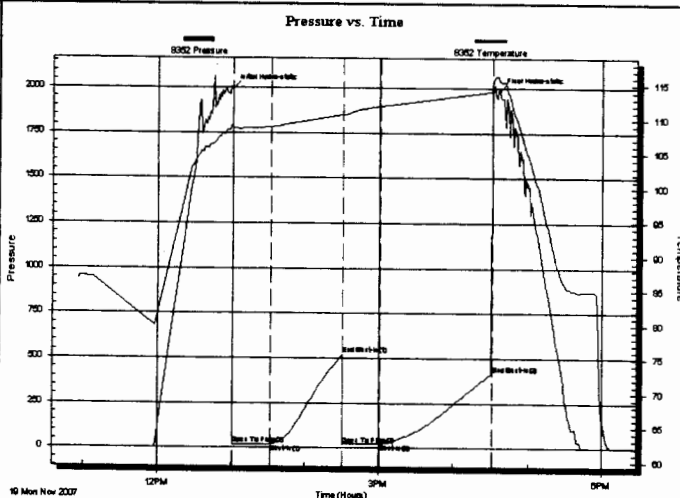
Time Off Btm: 2007.11.19 @ 16:36:59

TEST COMMENT: IF Very weak blow built to .25 " in 10 min died after 25 min

ISI No blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.53	109.17	Initial Hydro-static
1	16.97	108.45	Open To Flow (1)
32	17.79	108.90	Shut-In (1)
90	520.85	110.75	End Shut-In (1)
91	18.00	110.61	Open To Flow (2)
121	19.93	111.94	Shut-In (2)
211	413.97	114.13	End Shut-In (2)
217	1983.04	115.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

TEX #1-27

27 5 29 Decatur KS

Job Ticket: 30656

DST#: 1

Test Start: 2007.11.19 @ 10:55:20

Tool Information

Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 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:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	53.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3930.00 ft			Final	48000.00 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
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Jars	5.00			3917.00	
Safety Joint	3.00			3920.00	
Packer	5.00			3925.00	28.00 Bottom Of Top Packer
Packer	5.00			3930.00	
Stubb	1.00			3931.00	
Recorder	0.00	6799	Inside	3931.00	
Recorder	0.00	8352	Outside	3931.00	
Perforations	14.00			3945.00	
Bullnose	3.00			3948.00	18.00 Bottom Packers & Anchor
Total Tool Length:		46.00			

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WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

TEX #1-27

250 N Water Ste 300
Wichita KS 67202

27 5 29 Decatur KS

Job Ticket: 30656

DST#: 1

ATTN: Jeff Christian

Test Start: 2007.11.19 @ 10:55:20

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud 100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

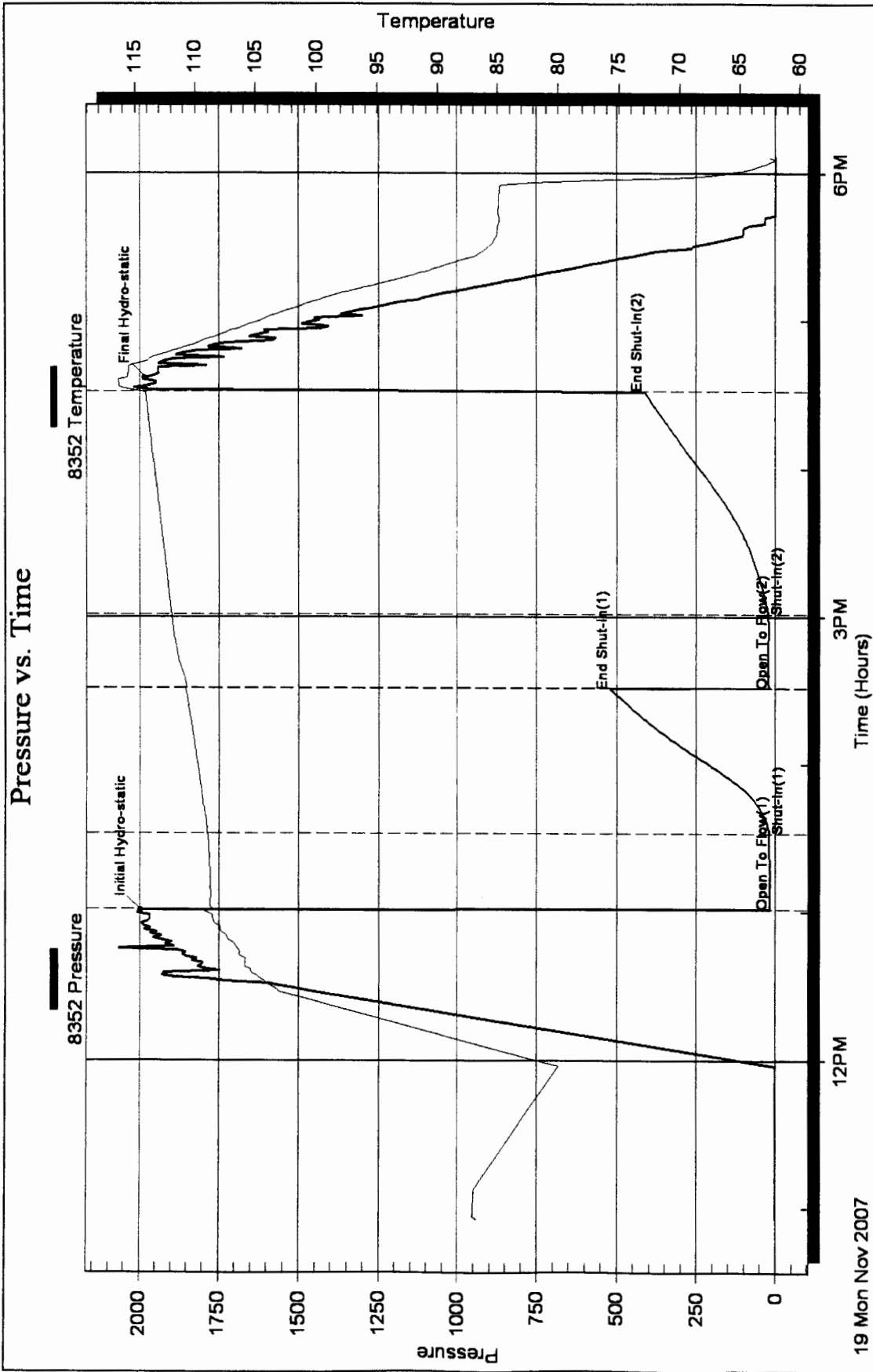
Serial #: 8352

Outside Murfin Drilling Company

27 5 29 Decatur KS

DST Test Number: 1

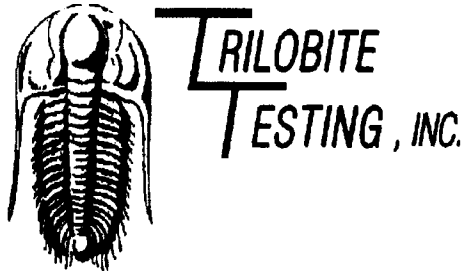
Pressure vs. Time



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MAR 12 2008

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

27 5 29 Decatur KS

TEX #1-27

Start Date: 2007.11.20 @ 04:38:52

End Date: 2007.11.20 @ 12:55:12

Job Ticket #: 30657 DST #: 2

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

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

TEX #1-27

27 5 29 Decatur KS

Job Ticket: 30657

DST#: 2

Test Start: 2007.11.20 @ 04:38:52

GENERAL INFORMATION:

Formation: "E-F-G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:03:12

Time Test Ended: 12:55:12

Interval: 3964.00 ft (KB) To 4015.00 ft (KB) (TVD)

Total Depth: 4015.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Reference Elevations: 2794.00 ft (KB)

2789.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Outside

Press@RunDepth: 659.94 psig @ 3965.00 ft (KB)

Start Date: 2007.11.20

End Date:

2007.11.20

Start Time: 04:38:54

End Time:

12:55:12

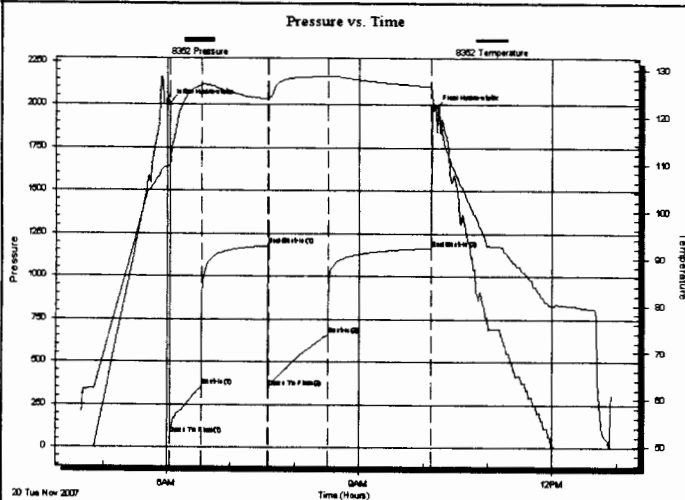
Capacity: 7000.00 psig

Last Calib.: 2007.11.20

Time On Btm: 2007.11.20 @ 06:02:42

Time Off Btm: 2007.11.20 @ 10:10:52

TEST COMMENT: IF Strong blow BOB in 4.25 minutes.
ISI Bled off no blow back
FF Strong blow BOB in 5.5 minutes.
FSI Bled off weak blow back built to .5" in bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.59	109.65	Initial Hydro-static
1	72.60	108.92	Open To Flow(1)
30	353.43	126.62	Shut-In(1)
92	1178.27	123.87	End Shut-In(1)
93	348.92	123.31	Open To Flow(2)
149	659.94	128.44	Shut-In(2)
245	1165.39	126.40	End Shut-In(2)
249	1976.25	122.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
465.00	OSW 1%o 99%w	4.88
350.00	OSMCW 1%o 7%o 92%w	4.91
380.00	SOCMCW 5%O 27%M 68%W	5.33
190.00	G&OCM 10%G 10%O 80%M	2.67
35.00	Clean Heavy Oil 100%O	0.49
0.00	Corrected grav.=17.5, Chi=58,000ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

TEX #1-27

27 5 29 Decatur KS

Job Ticket: 30657

DST#: 2

Test Start: 2007.11.20 @ 04:38:52

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 bbl	Tool Weight:	2500.00 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:	60000.00 lb
		Total Volume:	53.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3964.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 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
Shut In Tool	5.00			3941.00	
Hydraulic tool	5.00			3946.00	
Jars	5.00			3951.00	
Safety Joint	3.00			3954.00	
Packer	5.00			3959.00	28.00 Bottom Of Top Packer
Packer	5.00			3964.00	
Stubb	1.00			3965.00	
Recorder	0.00	6799	Inside	3965.00	
Recorder	0.00	8352	Outside	3965.00	
Perforations	13.00			3978.00	
Blank Spacing	34.00			4012.00	
Bullnose	3.00			4015.00	51.00 Bottom Packers & Anchor

Total Tool Length: 79.00

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TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

TEX #1-27

250 N Water Ste 300
Wichita KS 67202

27 5 29 Decatur KS

Job Ticket: 30657

DST#: 2

ATTN: Jeff Christian

Test Start: 2007.11.20 @ 04:38:52

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
465.00	OSW 1%o 99%w	4.883
350.00	OSMCW 1%o 7%w 92%w	4.910
380.00	SOCMCW 5%O 27%M 68%W	5.330
190.00	G&OCM 10%G 10%O 80%M	2.665
35.00	Clean Heavy Oil 100%O	0.491
0.00	Corrected grav.=17.5, Chl=58,000ppm	0.000

Total Length: 1420.00 ft

Total Volume: 18.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

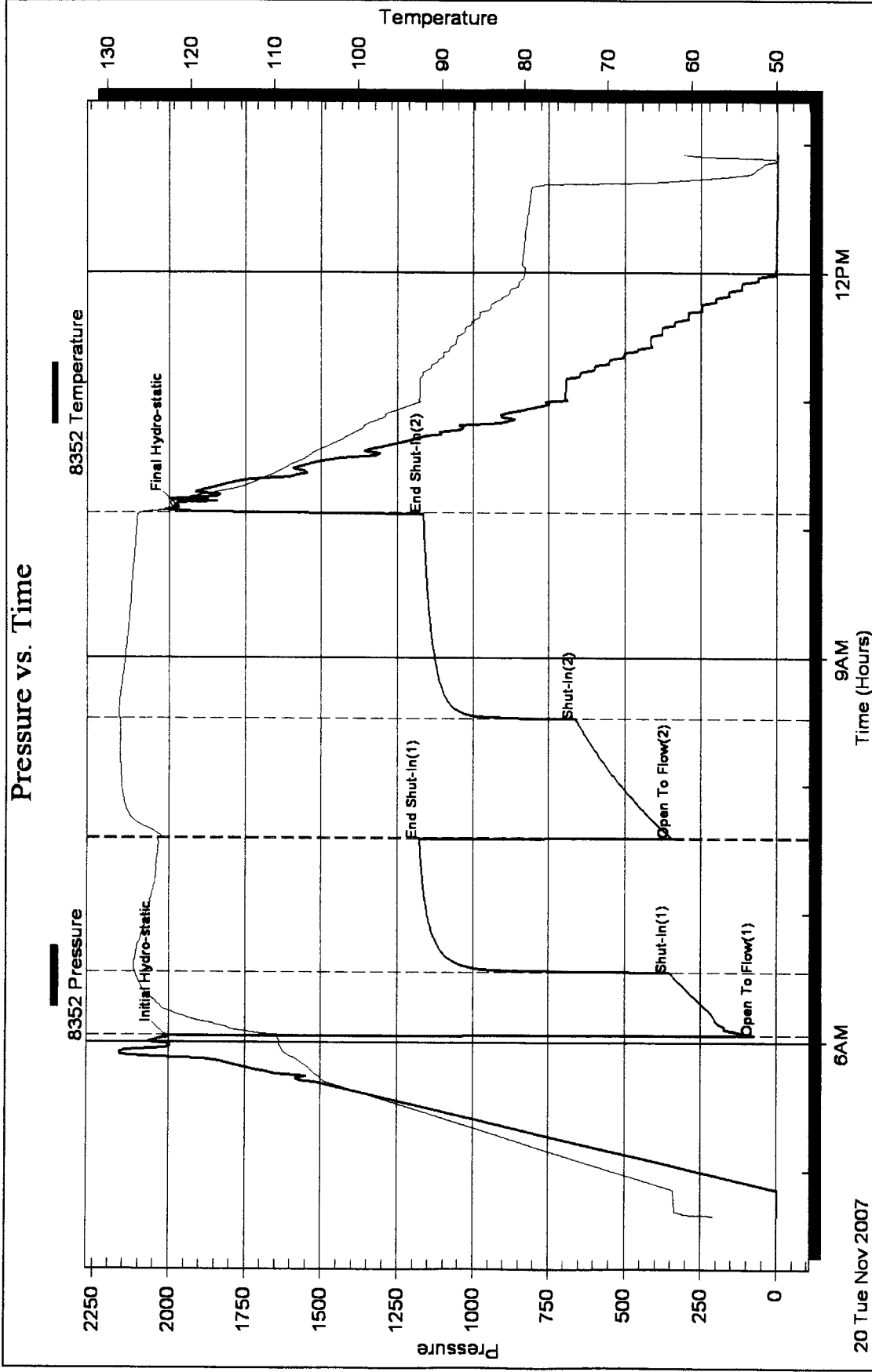
Serial #: 8352

Outside Murfin Drilling Company

27 5 29 Decatur KS

DST Test Number: 2

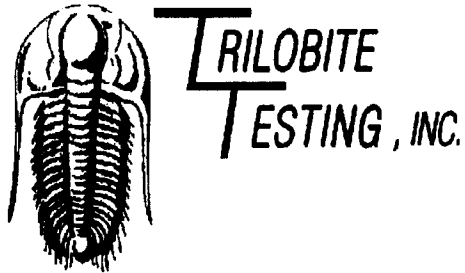
Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

27 5 29 Decatur KS

TEX #1-27

Start Date: 2007.11.20 @ 23:43:04

End Date: 2007.11.21 @ 08:08:24

Job Ticket #: 30658 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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

TEX #1-27

27 5 29 Decatur KS

Job Ticket: 30658

DST#: 3

Test Start: 2007.11.20 @ 23:43:04

GENERAL INFORMATION:

Formation: "H-J-K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:49:04

Time Test Ended: 08:08:24

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 4012.00 ft (KB) To 4099.00 ft (KB) (TVD)

Total Depth: 4099.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2794.00 ft (KB)

2789.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Outside

Press@RunDepth: 112.85 psig @ 4013.00 ft (KB)

Start Date: 2007.11.20

End Date: 2007.11.21

Start Time: 23:43:06

End Time: 08:08:24

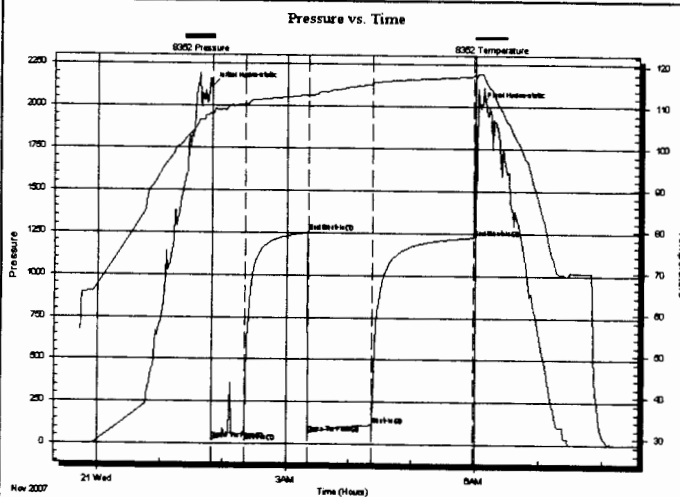
Capacity: 7000.00 psig

Last Calib.: 2007.11.21

Time On Btm: 2007.11.21 @ 01:48:34

Time Off Btm: 2007.11.21 @ 06:04:54

TEST COMMENT: IF Fairly weak blow built to 4 " in bucket
ISI Bled off no blow back
FF Fairly weak blow, built to 5.25 " in bucket
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.02	108.09	Initial Hydro-static
1	22.62	107.84	Open To Flow (1)
32	63.68	110.65	Shut-In (1)
92	1252.49	112.90	End Shut-In (1)
93	64.55	112.33	Open To Flow (2)
154	112.85	115.47	Shut-In (2)
251	1224.61	117.59	End Shut-In (2)
257	2009.02	118.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCM 3%O 97%M	0.59
83.00	SOCM 5%O 95%M	0.62
2.00	Clean Oil 100%O	0.03

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

TEX #1-27

250 N Water Ste 300
Wichita KS 67202

27 5 29 Decatur KS

Job Ticket: 30658

DST#: 3

ATTN: Jeff Christian

Test Start: 2007.11.20 @ 23:43:04

Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.80 inches	Volume: 53.78 bbl	Tool Weight:	3000.00 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:	90000.00 lb
		Total Volume:	54.67 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4012.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	87.00 ft				
Tool Length:	115.00 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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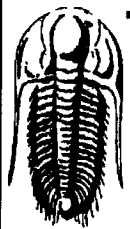
Shut In Tool	5.00			3989.00	
Hydraulic tool	5.00			3994.00	
Jars	5.00			3999.00	
Safety Joint	3.00			4002.00	
Packer	5.00			4007.00	28.00 Bottom Of Top Packer
Packer	5.00			4012.00	
Stubb	1.00			4013.00	
Recorder	0.00	6799	Inside	4013.00	
Recorder	0.00	8352	Outside	4013.00	
Perforations	17.00			4030.00	
Blank Spacing	66.00			4096.00	
Bullnose	3.00			4099.00	87.00 Bottom Packers & Anchor

Total Tool Length: 115.00

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

TEX #1-27

250 N Water Ste 300
Wichita KS 67202

27 5 29 Decatur KS

Job Ticket: 30658

DST#: 3

ATTN: Jeff Christian

Test Start: 2007.11.20 @ 23:43:04

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SOCM 3%O 97%M	0.590
83.00	SOCM 5%O 95%M	0.618
2.00	Clean Oil 100%O	0.028

Total Length: 205.00 ft

Total Volume: 1.236 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

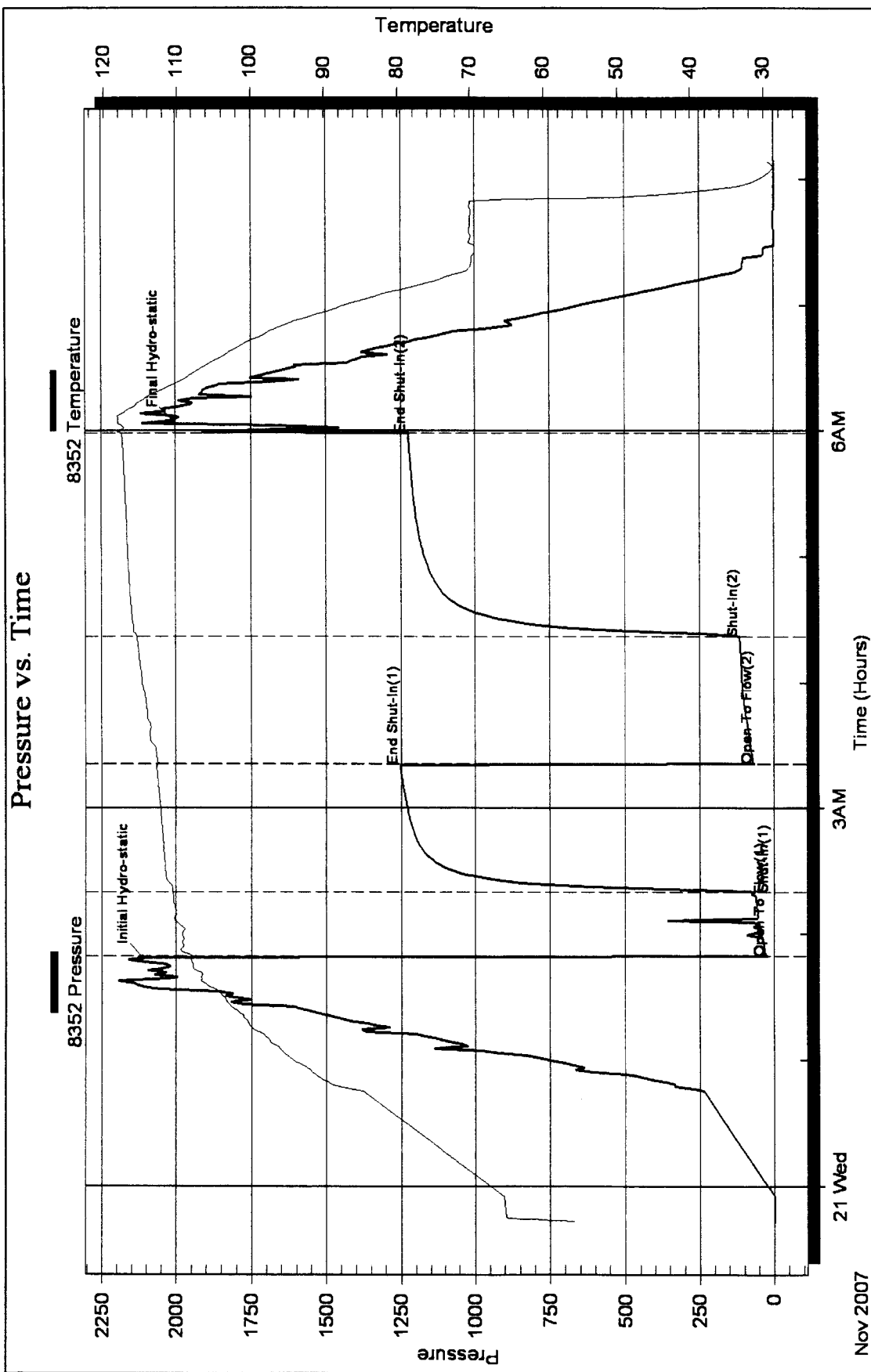
Outside

Murfin Drilling Company

27 5 29 Decatur KS

DST Test Number: 3

Pressure vs. Time



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Ref. No: 30658

Printed: 2007.11.27 @ 11:56:42 Page 5

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