

15-163-23341



**TRILOBITE
TESTING, INC.**

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 09 2002

DRILL STEM TEST REPORT

CONFIDENTIAL

Prepared For: **Murfin Drilling Co., Inc CONSERVATION DIVISION**

250 N. Water

Suite 300

Wichita, KS 672

ORIGINAL KCC

ATTN: Jim Danials

JAN 08 2002

9-9s-19w Rooks CONFIDENTIAL

Heroneme/ Hogan #1-9

Start Date: 2001.12.20 @ 21:26:20

End Date: 2001.12.21 @ 03:46:49

Job Ticket #: 15668

DST #: 1

Release

FEB 27 2003

**From
Confidential**

Trilobite Testing, Inc

PO Box 362 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
Suite 300
Wichita, KS 67202
ATTN: Jim Danials

Heroneme/ Hogan #1-9
9-9s-19w Rooks Ks
Job Ticket: 15668 DST#: 1
Test Start: 2001.12.20 @ 21:26:20

ORIGINAL

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 23:17:49
Time Test Ended: 03:46:49

KCC

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

JAN 08 2002

Interval: **3438.00 ft (KB) To 3480.00 ft (KB) (TVD)**
Total Depth: **3480.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: Fair

CONFIDENTIAL

Reference Elevations: **2031.00 ft (KB)**
2026.00 ft (CF)
KB to GR/CF: **5.00 ft**

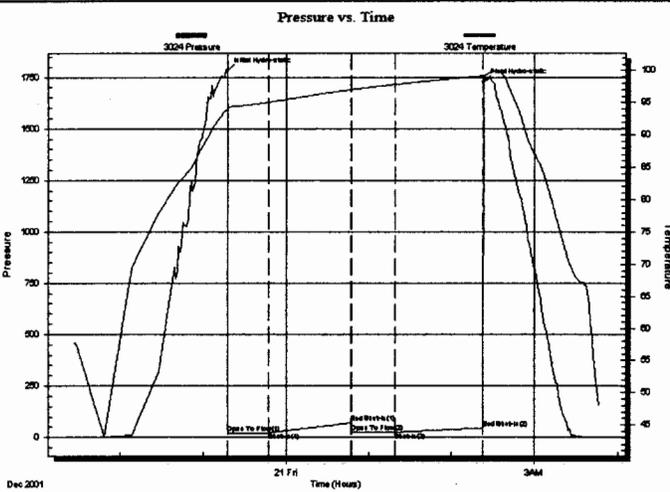
Serial #: 3024

Inside

Press@RunDepth: **24.08 psig @ 3446.02 ft (KB)**
Start Date: **2001.12.20** End Date: **2001.12.21**
Start Time: **21:26:20** End Time: **03:46:49**

Capacity: **7000.00 psig**
Last Calib.: **2001.12.21**
Time On Btrr: **2001.12.20 @ 23:17:19**
Time Off Btrr: **2001.12.21 @ 02:23:19**

TEST COMMENT: FFP- weak blow thru-out 1/4"to surface blow
FFP-no blow
times 30-60-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.35	94.01	Initial Hydro-static
1	17.63	94.16	Open To Flow (1)
30	21.33	95.03	Shut-In(1)
90	69.74	96.99	End Shut-In(1)
90	22.84	96.99	Open To Flow (2)
122	24.08	97.81	Shut-In(2)
186	44.22	99.16	End Shut-In(2)
186	1726.71	99.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 3%oil 97%mud	0.05

Gas Rates

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

Release

FEB 27 2003

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Confidential**



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Jim Danials

Heroneme/ Hogan #1-9
9-9s-19w Rooks Ks
Job Ticket: 15668 **DST#: 1**
Test Start: 2001.12.20 @ 21:26:20

Tool Information

Drill Pipe:	Length: 3246.00 ft	Diameter: 3.80 inches	Volume: 45.53 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: 46.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3438.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.02 ft			
Tool Length:	63.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3418.00	
S.I. Tool	5.00			3423.00	
HMV	5.00			3428.00	
Packer	5.00			3433.00	21.00 Bottom Of Top Packer
Packer	5.00			3438.00	
Stubb	1.00			3439.00	
Perforations	3.00			3442.00	
Recorder	0.01	11085	Outside	3442.01	
Perforations	3.00			3445.01	
C.O. Sub	1.00			3446.01	
Recorder	0.01	3024	Inside	3446.02	
Blank Spacing	30.00			3476.02	
C.O. Sub	1.00			3477.02	
Bullnose	3.00			3480.02	42.02 Bottom Packers & Anchor

Total Tool Length: 63.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc

Heroneme/ Hogan #1-9

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Jim Danials

9-9s-19w Rooks Ks
Job Ticket: 15668 **DST#: 1**
Test Start: 2001.12.20 @ 21:26:20

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.35 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 3%oil 97%mud	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 #: 3024

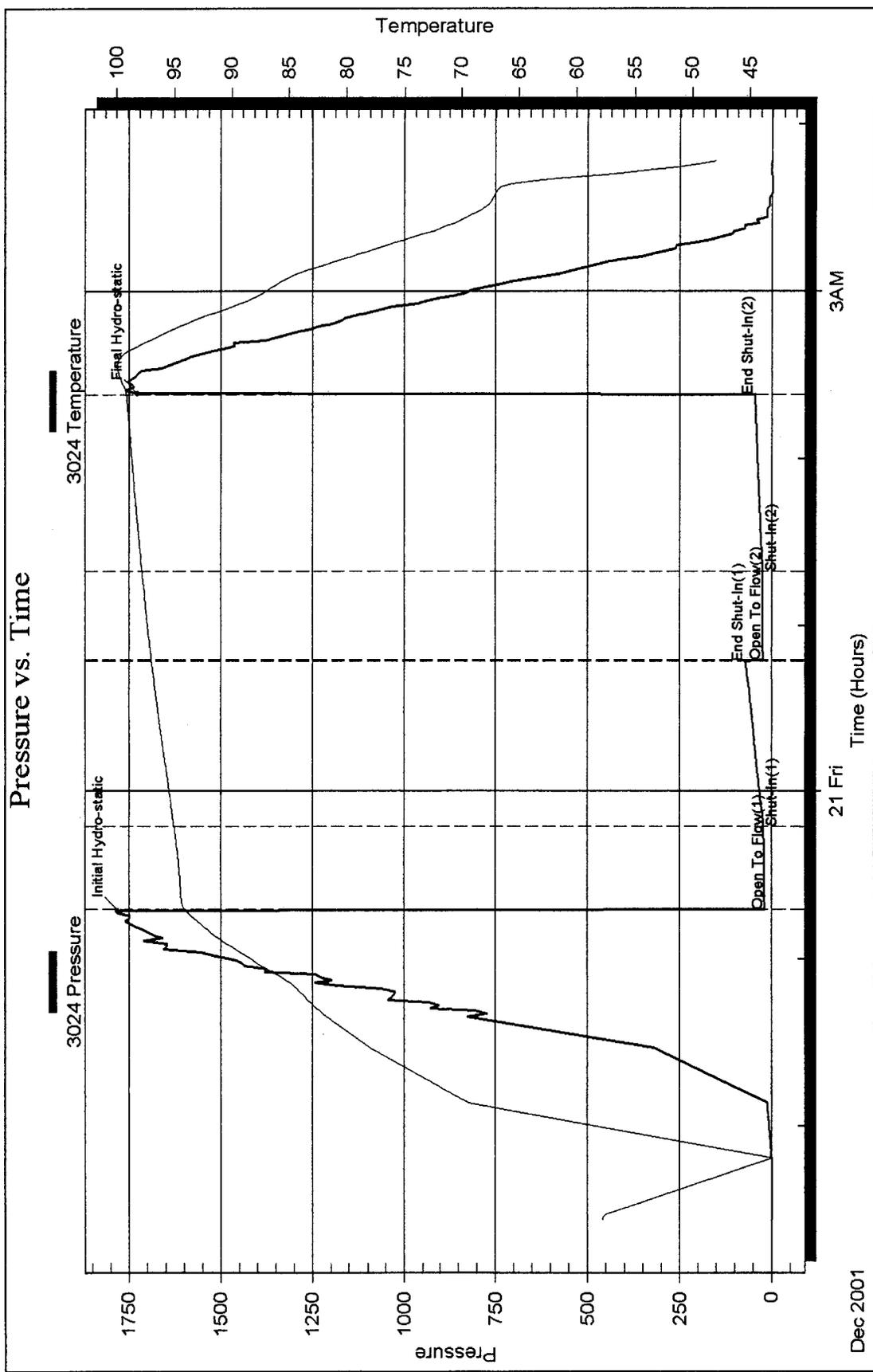
Inside

Murfin Drilling Co., Inc

9-9s-19w

Rocks Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared for

Murfin Drilling Company
250 N. Water, Suite 300
Wichita, KS 67202

Heroneme-Hogan #1-9
9 9s 19w
Rooks co KS

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Well name#:	Heroneme-H	Date:	12/21/2001
Location#:	9 9s 19w	Ticket #:	15669
		DST#	2

General Informaion:

Formation:	Arbuckle	Test Type:	Conventional	BHT:	99
Interval:	3480-3485	Tester:	Ray Schwager	OIL API:	
Total Depth:	3485	Elevation:	2031 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		2026 ft(CF)		
Start Data:	12/21/2001	Tool Weight:	2200	Mud Type:	Chemical
Start Time:	8:50:00	Weight Set on Packers:	25000	Mud Weight:	9.4
Time tool opened:	10:20:00	Weight to Pull Loose:	45000	Viscosity:	45
Time Off Btm:	12:20:00	Initial String Weight:	38000	Water Loss:	8
End Date:	12/21/01	Final String Weight:	38000	Resistivity:	
End Time:	14:00:00	Drill Pipe Length:	120	Salinity:	4600
		Drill Collar Length:	3370		

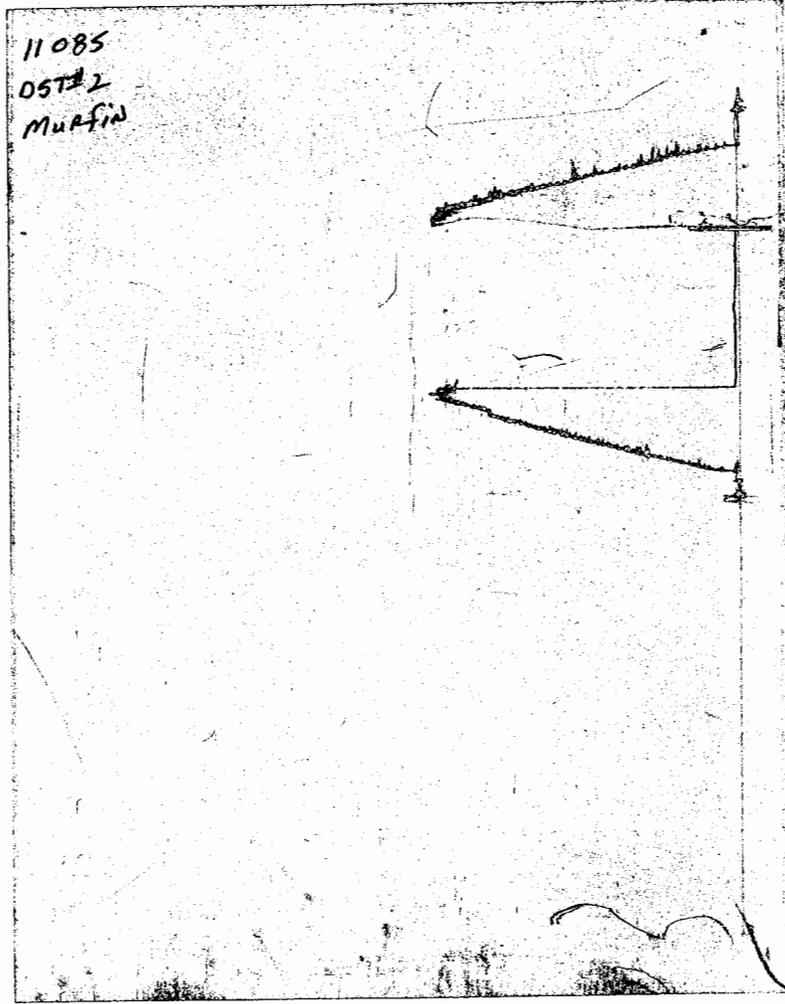
Test Comment:	
IFP - Very weak blow died in 25 min.	
FFP - No blow	
Recovery Length(ft):	1ft
	Description:
1	SOCM 3% oil 97% mud

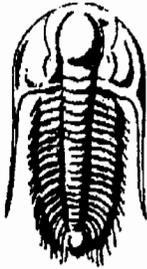
Gas Volume Report

Recorder #:	11085	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1701					
Open to Flow (1):	14	30				
Shut-in (1):	14					
End Shut-in (1):	25	30				
Open to Flow (2):	14	30				
Shut-in (2):	14					
End Shut-in (2):	14	30				
Final Hydro-static:	1638					

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





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250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Jim Danials

9-9s-19w Rooks Ks

Heroneme/ Hogan #1-9

Start Date: 2001.12.21 @ 19:35:01

End Date: 2001.12.22 @ 00:29:00

Job Ticket #: 15670 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co., Inc

Heroneme/ Hogan #1-9

9-9s-19w Rooks Ks

DST # 3

Arbuckle

2001.12.21



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TOOL DIAGRAM

Murfin Drilling Co., Inc

Heroneme/ Hogan #1-9

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Jim Danials

9-9s-19w Rooks Ks
Job Ticket: 15670 **DST#: 3**
Test Start: 2001.12.21 @ 19:35:01

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 47.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3485.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.01 ft			
Tool Length:	31.01 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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C.O. Sub	1.00			3465.00	
S.I. Tool	5.00			3470.00	
HMV	5.00			3475.00	
Packer	5.00			3480.00	21.00 Bottom Of Top Packer
Packer	5.00			3485.00	
Stubb	1.00			3486.00	
Recorder	0.01	3024	Inside	3486.01	
Perforations	6.00			3492.01	
Bullnose	3.00			3495.01	10.01 Bottom Packers & Anchor
Total Tool Length:	31.01				



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Heroneme/ Hogan #1-9
9-9s-19w Rooks Ks
Job Ticket: 15670 **DST#: 3**
Test Start: 2001.12.21 @ 19:35:01

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: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 2%oil 98%mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 3024

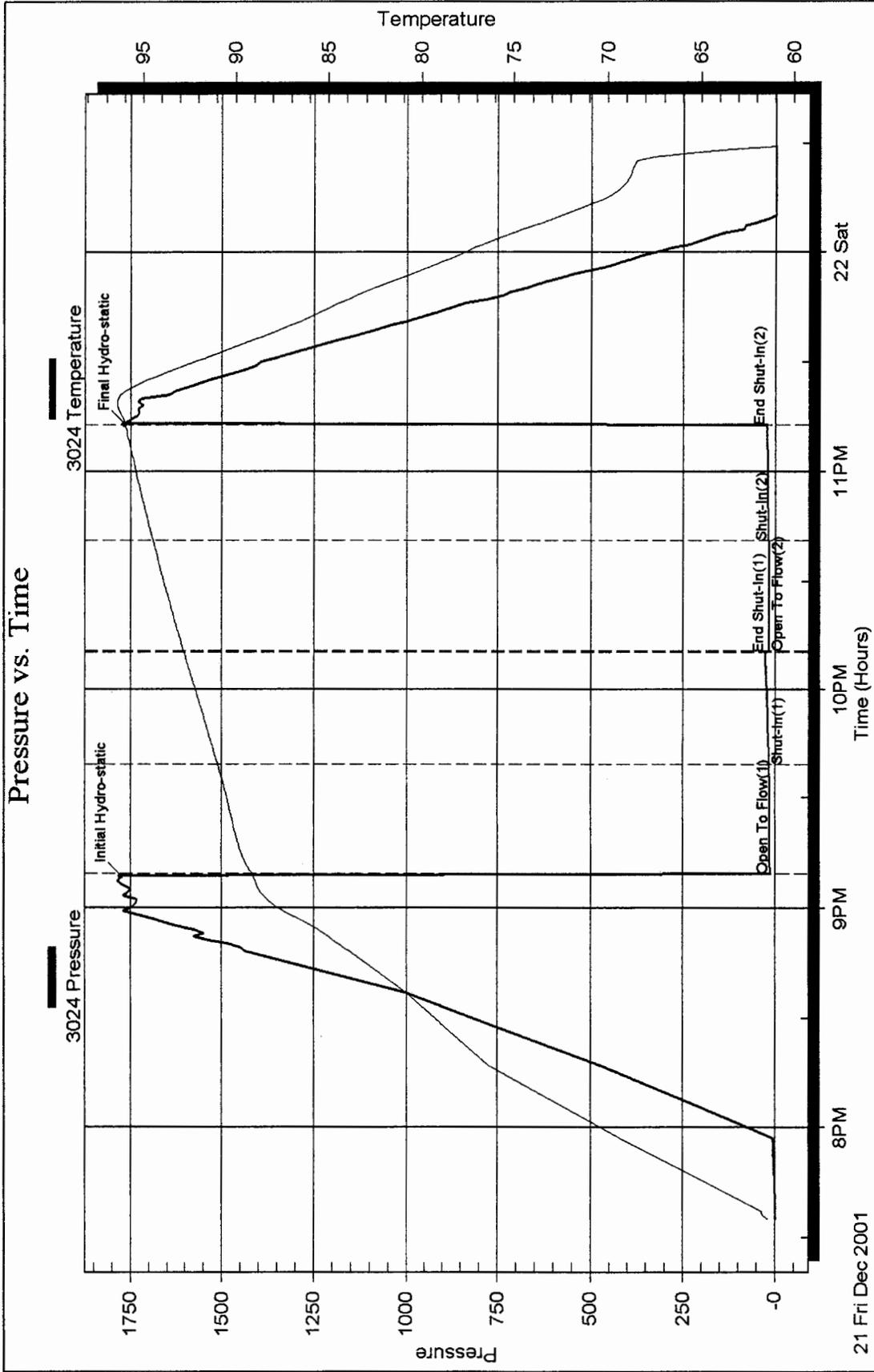
Inside

Murfin Drilling Co., Inc

9-9s-19w Rocks Ks

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 15670

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