



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co I**

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

32-2s-41w

Culwell Unit #4-32

Start Date:

End Date:

Job Ticket #:

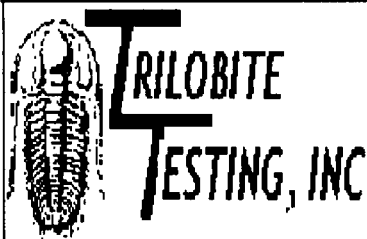
DST #: 1

18 copies

Trilobite Testing Inc.

Box 362 Hays KS 67601

785.625.4778 trilobite@eaglecom.net



DRILL STEM TEST REPORT

Murfin Drilling Co I

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250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

32-2s-41w

Job Ticket:

DST#: 1

Test Start:

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Test Type:

Time Test Ended:

Tester:

Unit No:

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

Reference Elevations: 3680.00 ft (KB)

Total Depth: ft (KB)

3675.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 3289

Inside

Press@RunDepth: 21.39 psig @ 4491.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.01.21

End Date:

2001.01.22

Last Calib.: 2001.01.22

Start Time: 21:33:55

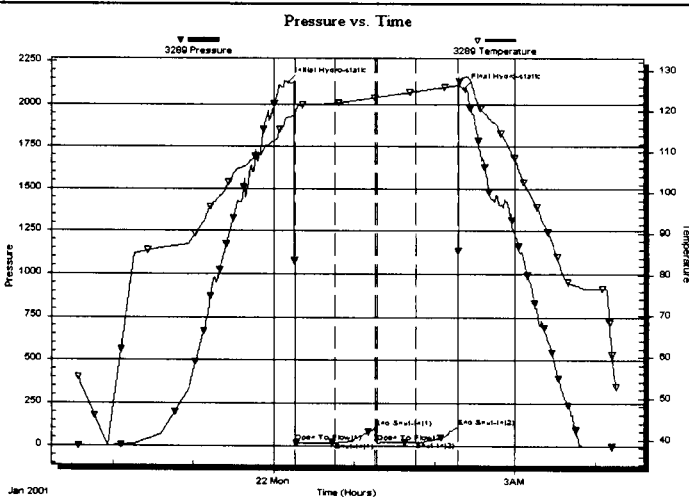
End Time:

04:15:53

Time On Btm: 2001.01.22 @ 00:10:53

Time Off Btm: 2001.01.22 @ 02:21:53

TEST COMMENT: times 30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
157	2125.89	118.67	Initial Hydro-static
162	18.81	119.64	Open To Flow (1)
192	20.23	122.13	Shut-In(1)
222	104.26	123.45	End Shut-In(1)
223	20.45	123.52	Open To Flow (2)
252	21.39	124.96	Shut-In(2)
283	109.55	126.38	End Shut-In(2)
288	2093.31	128.38	Final Hydro-static

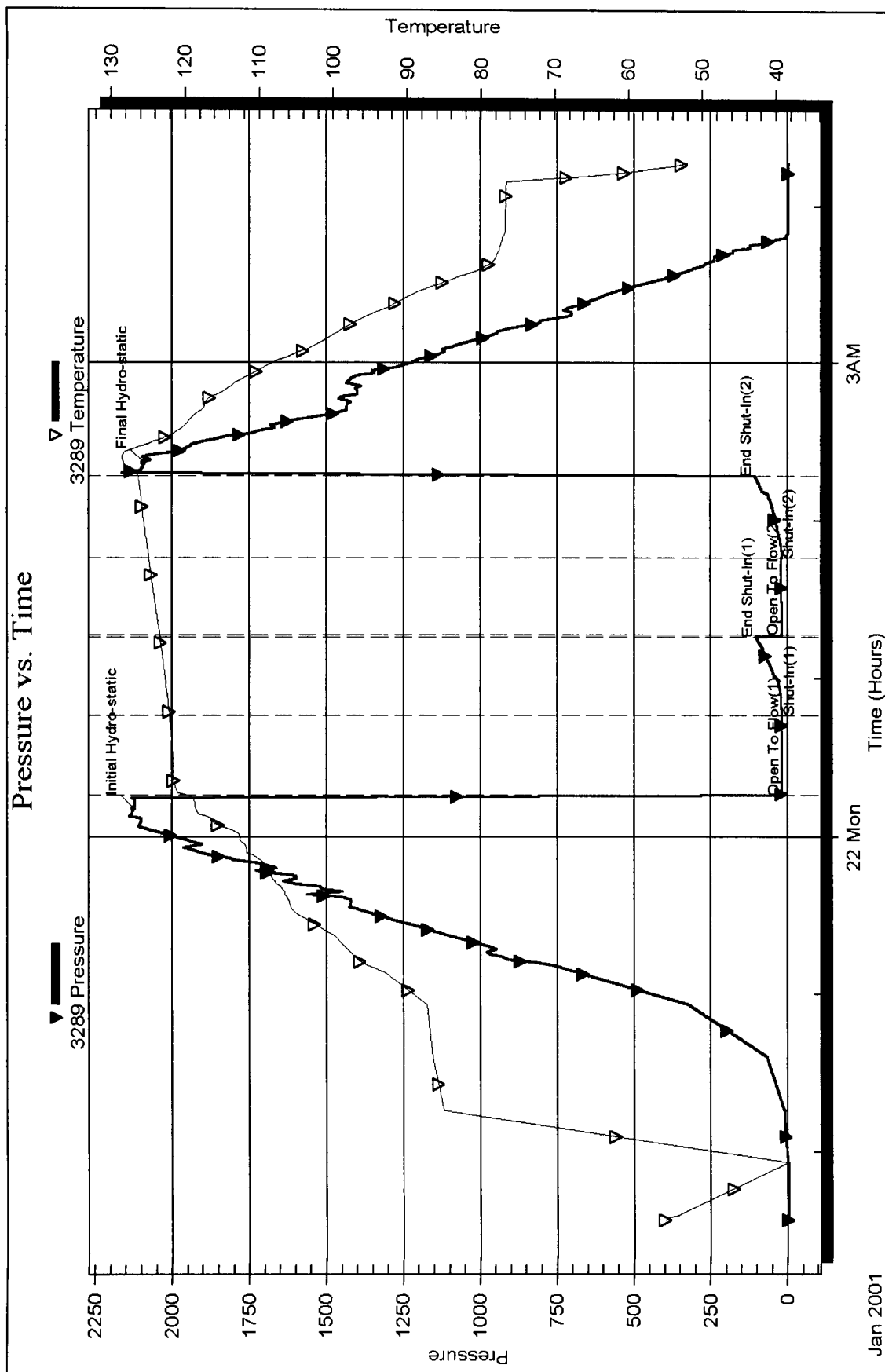
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

Gas Rates

Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Serial #: 3289





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250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

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Culwell Unit #4-32

Start Date: 2001.01.22 @ 13:56:00

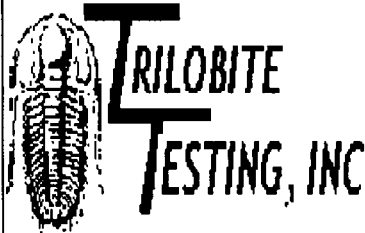
End Date: 2001.01.22 @ 18:34:00

Job Ticket #: 14301 DST #: 2

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250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

32-2s-41w

Job Ticket: 14301

DST#: 2

Test Start: 2001.01.22 @ 13:56:00

GENERAL INFORMATION:

Formation: LKC "D"zone

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:01:41

Time Test Ended: 18:34:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 4548.00 ft (KB) To 4610.00 ft (KB) (TVD)

Total Depth: 4555.00 ft (KB)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 3680.00 ft (KB)

3675.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3289 Inside

Press@RunDepth: 28.42 psig @ 4554.01 ft (KB)

Start Date: 2001.01.22

End Date: 2001.01.22

Start Time: 13:53:43

End Time: 20:28:11

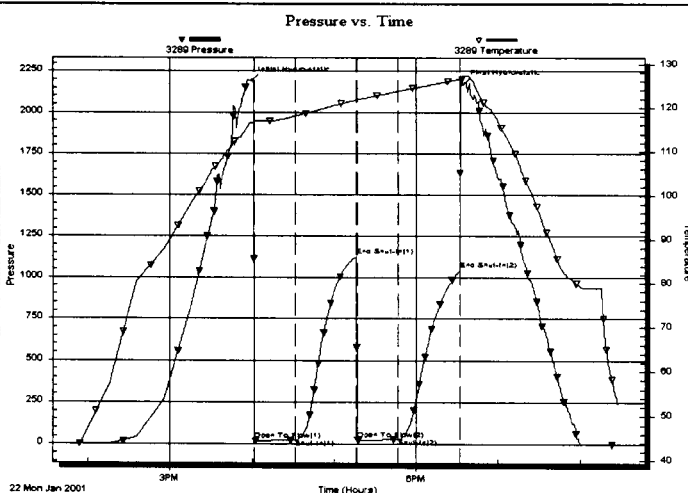
Capacity: 7000.00 psig

Last Calib.: 2001.01.22

Time On Btm: 2001.01.22 @ 15:59:41

Time Off Btm: 2001.01.22 @ 18:34:41

TEST COMMENT: times 30-45-30-45 IFP-w k bl 1/2" to 1/4" bl
FFP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
126	2189.38	116.52	Initial Hydro-static
128	18.75	116.99	Open To Flow (1)
158	22.75	118.09	Shut-In(1)
203	1124.75	121.78	End Shut-In(1)
203	25.20	121.94	Open To Flow (2)
233	28.42	123.78	Shut-In(2)
278	1044.66	126.54	End Shut-In(2)
281	2169.39	127.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 2%oil 98%mud	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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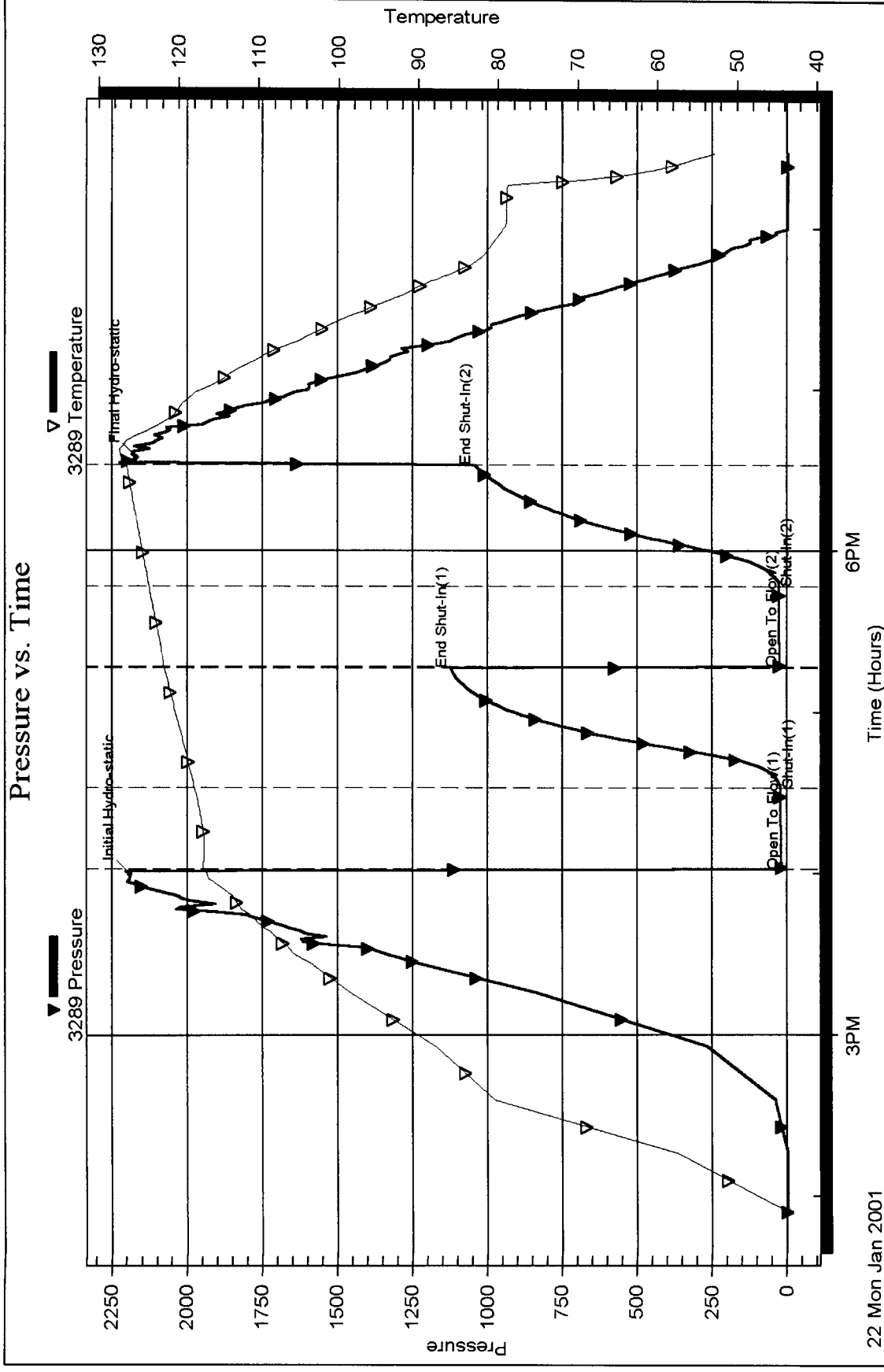
32-2s-41w

Murfin Drilling Co I

Inside

Serial #: 3289

Pressure vs. Time





DRILL STEM TEST REPORT

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250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

32-2s-41w

Culwell Unit #4-32

Start Date: 2001.01.23 @ 13:23:00

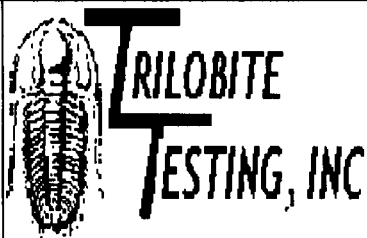
End Date: 2001.01.23 @ 17:56:43

Job Ticket #: 14302 DST #: 3

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Murfin Drilling Co I

250 N Water
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Wichita Ks 67202
ATTN: Scott Robinson

Culwell Unit #4-32

32-2s-41w

Job Ticket: 14302

DST#: 3

Test Start: 2001.01.23 @ 13:23:00

GENERAL INFORMATION:

Formation: LKC "J"zone

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:56:00

Time Test Ended: 17:56:43

Interval: 4683.00 ft (KB) To 4745.00 ft (KB) (TVD)

Total Depth: 4555.00 ft (KB)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Reference Elevations: 3680.00 ft (KB)

3675.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3289

Inside

Press@RunDepth: psig @ 4694.01 ft (KB)

Start Date: 2001.01.23

End Date: 2001.01.23

Capacity: 7000.00 psig

Last Calib.: 2001.01.23

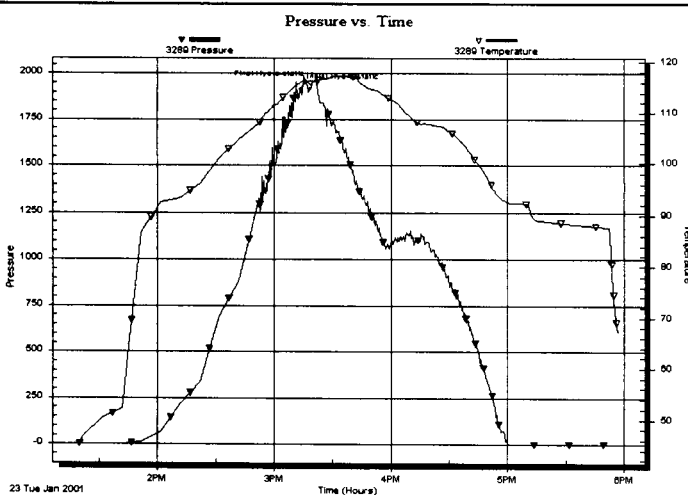
Start Time: 13:19:45

End Time: 17:56:43

Time On Btm: 2001.01.23 @ 15:13:13

Time Off Btm: 2001.01.23 @ 15:19:13

TEST COMMENT: times 30-30-30-30 had hole in drill collar lost fluid
13 stds from bottom, pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
114	1918.59	115.91	Initial Hydro-static
120	1935.15	116.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1500.00	mud	16.49

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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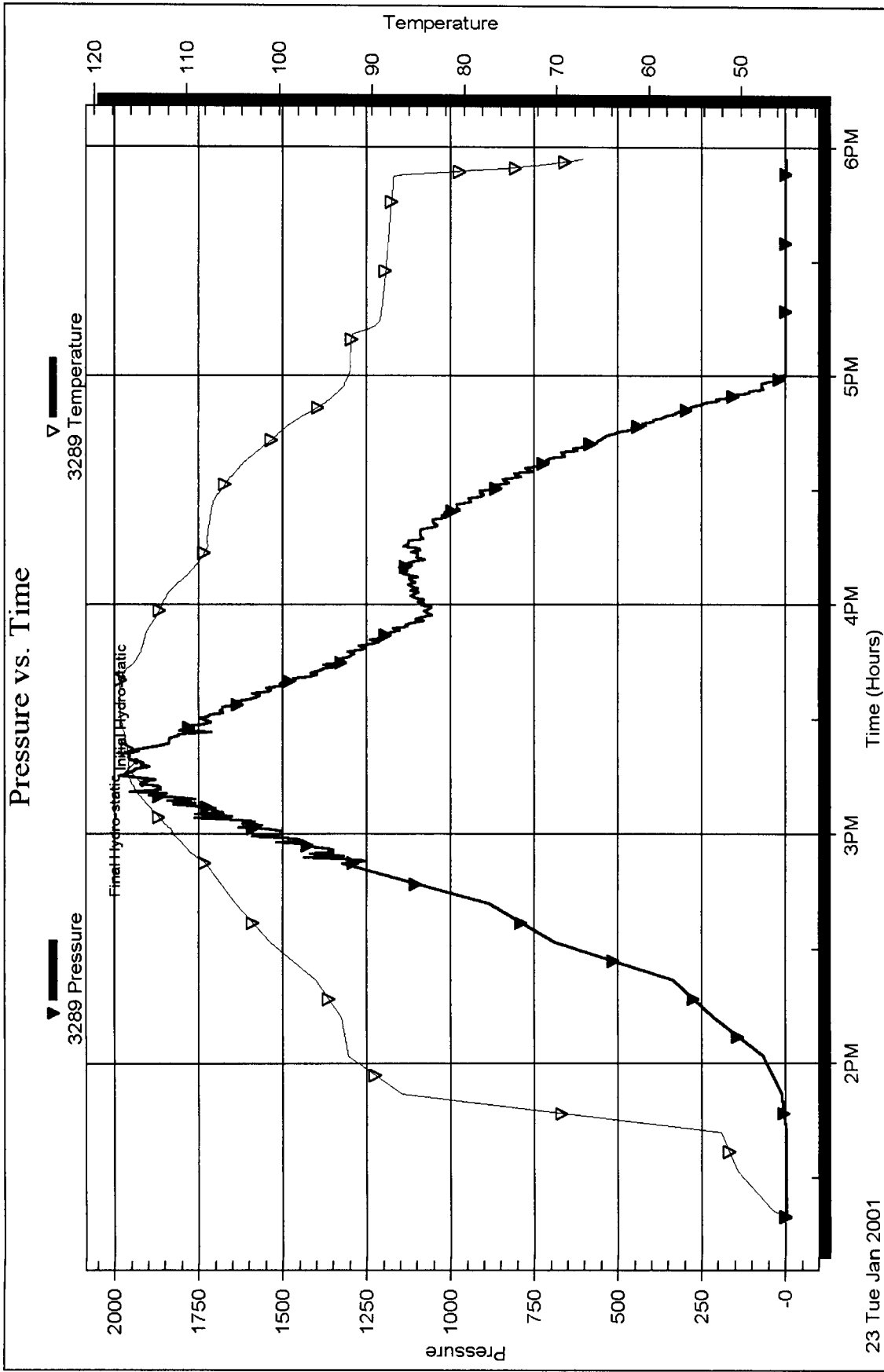
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Murfin Drilling Co I

Inside

Serial #: 3289

Pressure vs. Time





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Culwell Unit #4-32

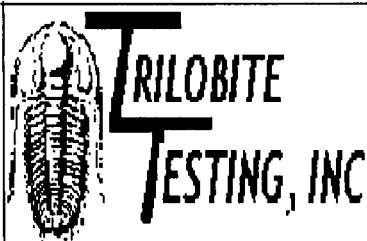
Start Date:

End Date:

Job Ticket #:

DST #: 4

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DRILL STEM TEST REPORT

Murfin Drilling Co I

Culwell Unit #4-32

250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

32-2s-41w

Job Ticket:

DST#: 4

Test Start:

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Test Type:

Time Test Ended:

Tester:

Unit No:

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

Reference Elevations: 3680.00 ft (KB)

Total Depth: ft (KB)

3675.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 3289 Inside

Press@RunDepth: 249.02 psig @ 4694.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.01.23

End Date: 2001.01.24

Last Calib.: 2001.01.24

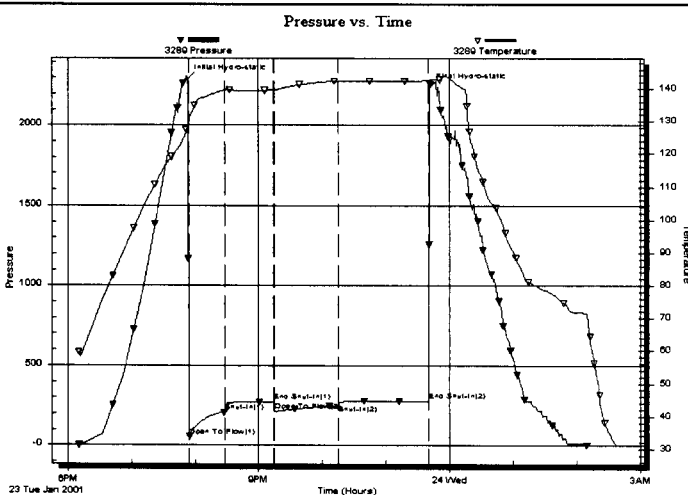
Start Time: 18:10:06

End Time: 02:38:04

Time On Btm: 2001.01.23 @ 19:53:04

Time Off Btm: 2001.01.23 @ 23:41:04

TEST COMMENT: times 30-45-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
103	2291.38	127.94	Initial Hydro-static
104	48.23	128.85	Open To Flow (1)
138	206.92	139.74	Shut-In(1)
184	271.65	139.64	End Shut-In(1)
185	211.49	139.66	Open To Flow (2)
245	249.02	142.48	Shut-In(2)
330	277.59	142.56	End Shut-In(2)
331	2236.70	142.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	gip	1.08
40.00	clean oil	0.20
270.00	MGO 20%gas 60%oil 20%mud	2.15
60.00	HO&GCM 25%gas 25%oil 50%mud	0.84
180.00	SOCMW 3%oil 77%water 20%mud	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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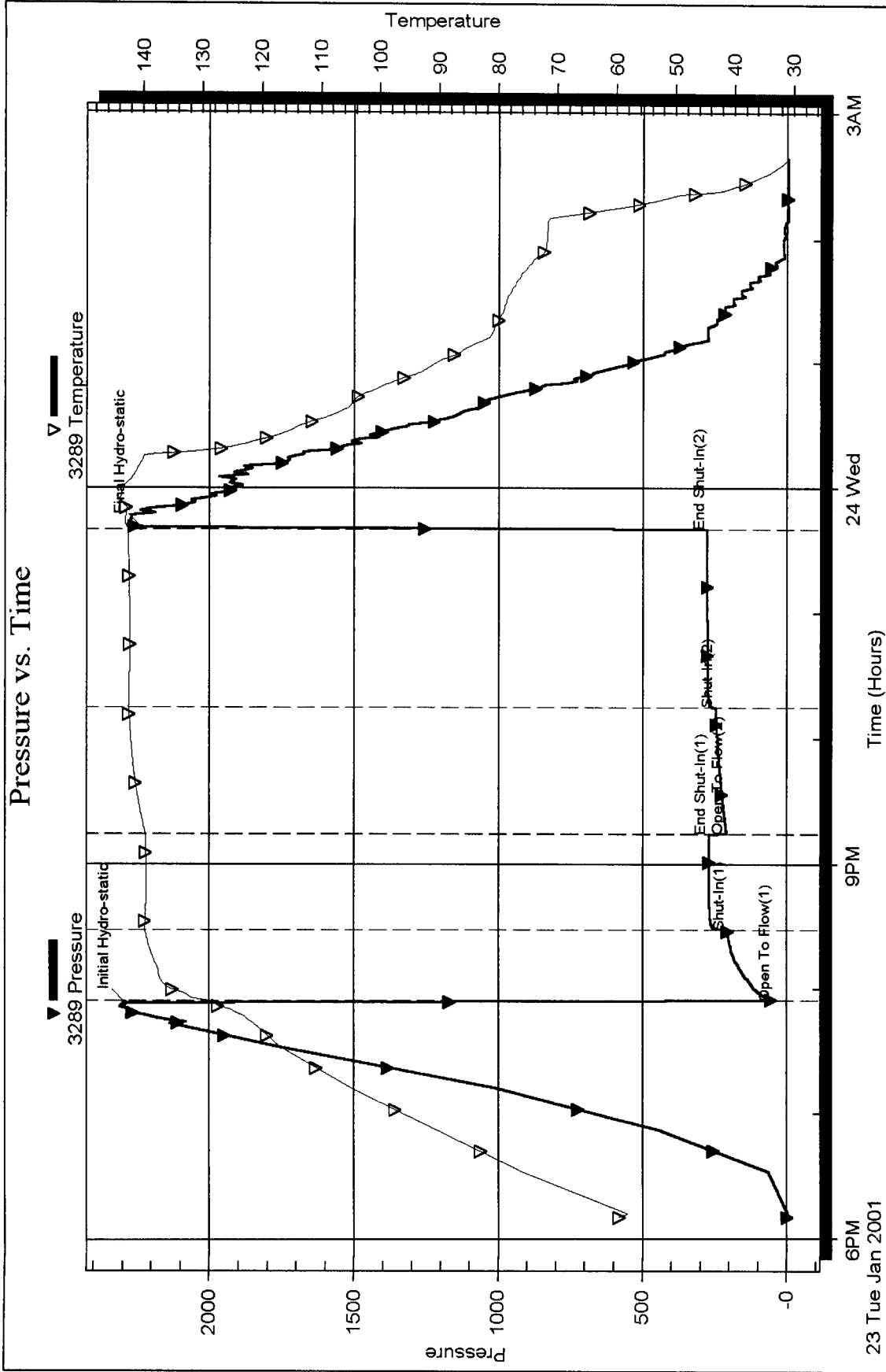
32-2s-41w

Murfin Drilling Co I

Inside

Serial #: 3289

Pressure vs. Time



Ref. No:

Trilobite Testing Inc.



DRILL STEM TEST REPORT

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250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

32-2s-41w

Culwell Unit #4-32

Start Date: 2001.01.24 @ 23:31:00

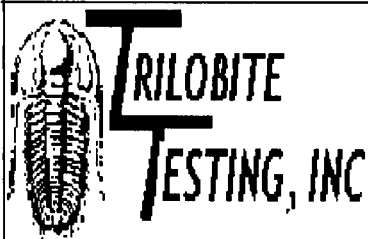
End Date: 2001.01.25 @ 02:05:00

Job Ticket #: 14304 DST #: 5

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DRILL STEM TEST REPORT

Murfin Drilling Co I

250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Culwell Unit #4-32

32-2s-41w

Job Ticket: 14304

DST#: 5

Test Start: 2001.01.24 @ 23:31:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:00

Time Test Ended: 02:05:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 4824.00 ft (KB) To 4930.00 ft (KB) (TVD)

Total Depth: 4555.00 ft (KB)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 3680.00 ft (KB)

3675.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3289 Inside

Press@RunDepth: psig @ 4893.02 ft (KB)

Start Date: 2001.01.24

End Date:

2001.01.25

Capacity: 7000.00 psig

Last Calib.: 2001.01.25

Start Time: 23:28:48

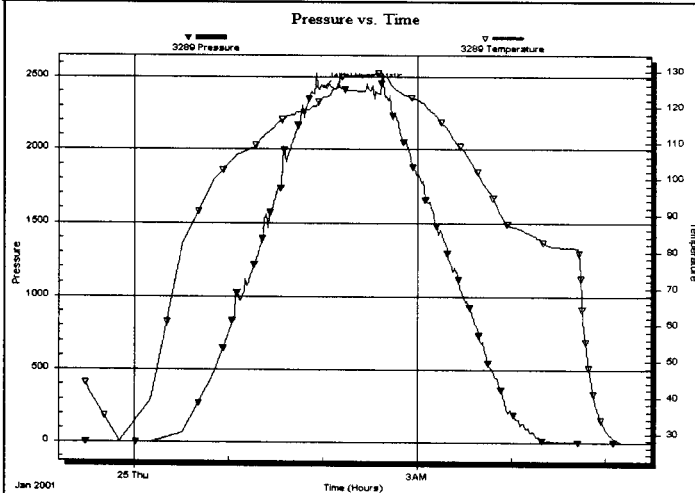
End Time:

05:11:46

Time On Btm: 2001.01.25 @ 02:00:46

Time Off Btm:

TEST COMMENT: times 30-30-30-30 opened tool got a w k surface
then packer failed set twice



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
152	2429.43	122.86	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mud	1.48

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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32-2s-41w

Murfin Drilling Co I

Inside

Serial #: 3289

Pressure vs. Time

