



DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associa**

8100 E 22nd St No.Bldg 600
Suite F
Wichita, KS 67226

ATTN: Rob Patton

22-32s-19w Comanche

Weldon #1

Start Date: 2001.03.16 @ 10:52:00

End Date: 2001.03.16 @ 17:30:00

Job Ticket #: 14314 DST #: 1

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associa

8100 E 22nd St No. Bldg 600
Suite F
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Job Ticket: 14314

DST#: 1

Test Start: 2001.03.16 @ 10:52:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:12

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **5074.00 ft (KB) To 5196.00 ft (KB) (TVD)**

Total Depth: 5196.00 ft (KB)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2004.00 ft (KB)

1999.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3024** Inside

Press@RunDepth: 65.89 psig @ 5080.02 ft (KB)

Start Date: 2001.03.16

End Date: 2001.03.16

Start Time: 10:54:43

End Time: 20:09:12

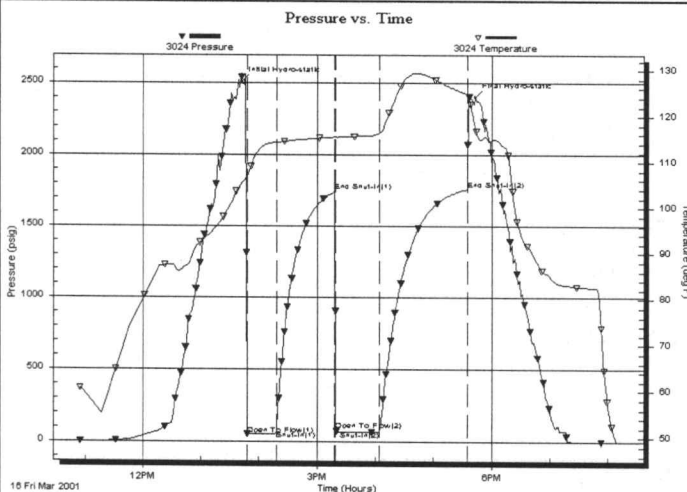
Capacity: 7000.00 psig

Last Calib.: 2001.03.16

Time On Btm: 2001.03.16 @ 13:42:12

Time Off Btm: 2001.03.16 @ 17:42:42

TEST COMMENT: times 30-60-45-90 IFP-stg bl gas in 19 min
FFP-gas to surface



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
168	2508.76	105.43	Initial Hydro-static
174	40.78	106.99	Open To Flow (1)
203	70.60	114.41	Shut-In(1)
263	1741.05	115.58	End Shut-In(1)
265	79.05	115.62	Open To Flow (2)
310	65.89	116.52	Shut-In(2)
400	1756.95	124.91	End Shut-In(2)
408	2402.67	117.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gas cut mud 6%gas 94%mud	0.59

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.00	9.13
Last Gas Rate	0.25	10.00	38.71
Max. Gas Rate	0.13	28.00	15.87



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TOOL DIAGRAM

Thoroughbred Associa

8100 E 22nd St No.Bldg 600

Suite F

Wichita, KS 67226

ATTN: Rob Patton

Weldon #1

22-32s-19w Comanche

Job Ticket: 14314

DST#: 1

Test Start: 2001.03.16 @ 10:52:00

Tool Information

Drill Pipe:	Length: 4812.00 ft	Diameter: 3.80 inches	Volume: 67.50 bbl	Tool Weight: 2800.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight set on Packer: 25000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
Drill Pipe Above KB:	6.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5069.00 ft			String Weight: Initial 76000.00 lb
Depth to Bottom Packer:	ft			Final 80000.00 lb
Interval between Packers:	ft			
Tool Length:	150.02 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			5047.00	
S.I. Tool	5.00			5052.00	
HYD S.I. Tool	5.00			5057.00	
Jars	5.00			5062.00	
Safety Joint	2.00			5064.00	
Packer	5.00			5069.00	23.00 Bottom Of Top Packer
Packer	5.00			5074.00	
Stubb	1.00			5075.00	
Recorder	0.01	11085	Outside	5075.01	
Perforations	4.00			5079.01	
C.O. Sub	1.00			5080.01	
Recorder	0.01	3024	Inside	5080.02	
Blank Spacing	94.00			5174.02	
C.O. Sub	1.00			5175.02	
Perforations	18.00			5193.02	
Bullnose	3.00			5196.02	127.02 Bottom Packers & Anchor
Total Tool Length:		150.02			



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FLUID SUMMARY

Thoroughbred Associa

Weldon #1

8100 E 22nd St No.Bldg 600

22-32s-19w Comanche

Suite F

Job Ticket: 14314

DST#: 1

Wichita, KS 67226

Test Start: 2001.03.16 @ 10:52:00

ATTN: Rob Patton

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: - ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbl

214748364

Water Loss: 7.38

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gas cut mud 6%gas 94%mud	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 3024

Laboratory Name:

Laboratory Location:

Recovery Comments: times 30-60-45-90



TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Thoroughbred Associa

Weldon #1

8100 E 22nd St No.Bldg 600

22-32s-19w Comanche

Suite F

Job Ticket: 14314

DST#: 1

Wichita, KS 67226

Test Start: 2001.03.16 @ 10:52:00

ATTN: Rob Patton

Gas Rates Information

Temperature: 59 (deg F)

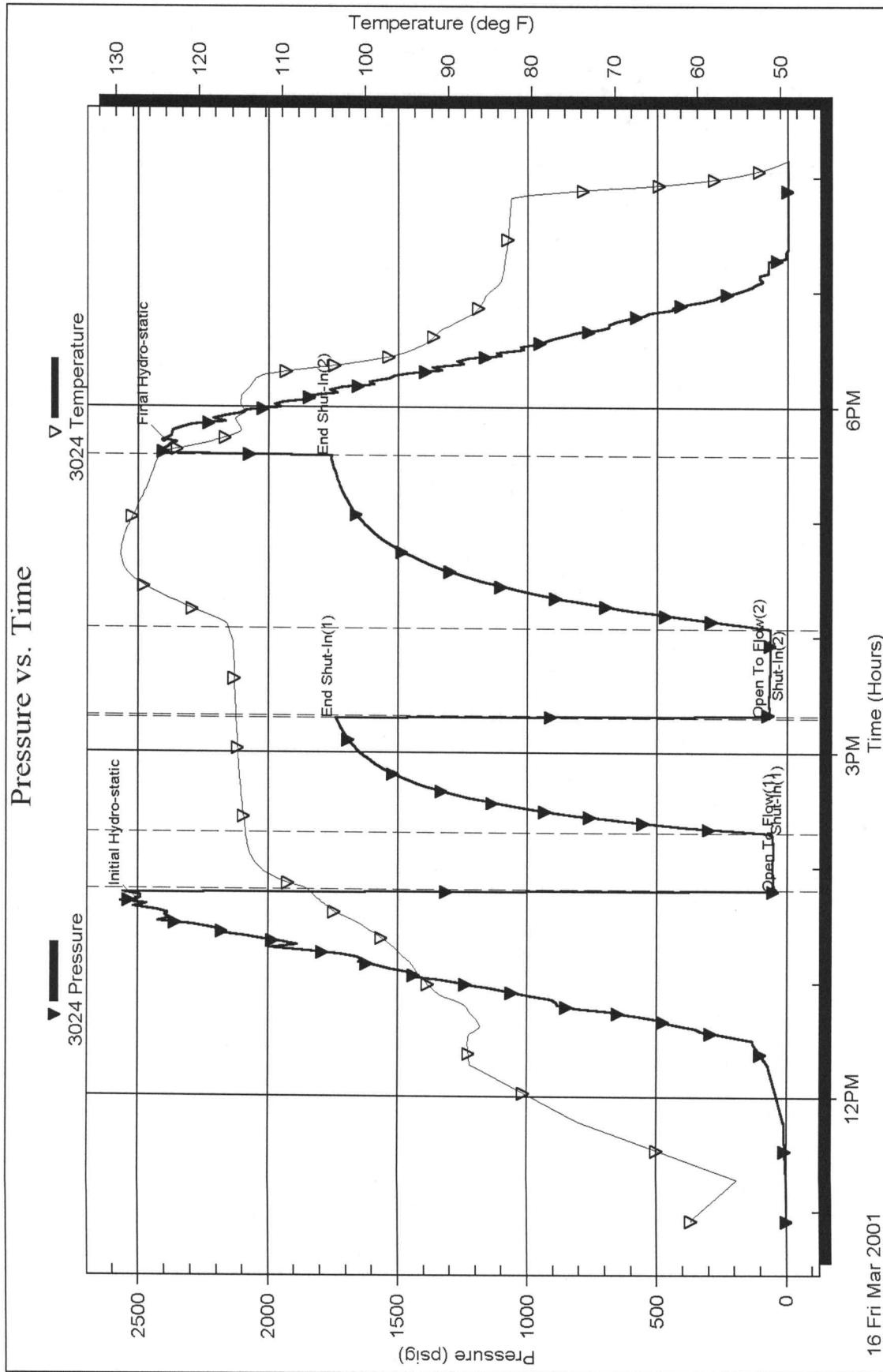
Relative Density: 0.65

Z Factor: 0.8

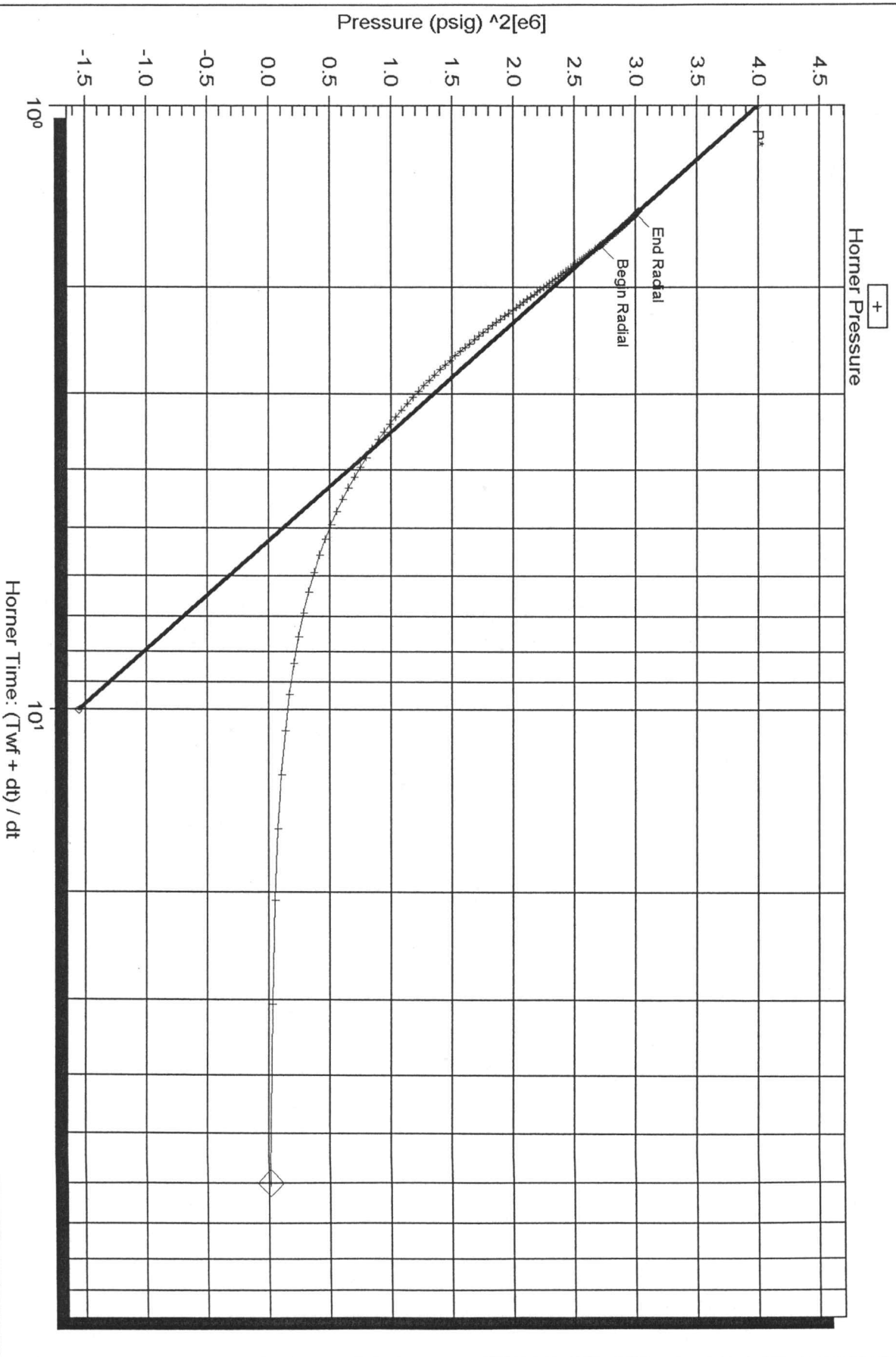
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (kPaa)	Gas Rate (Mcf/d)
1	20	0.13	10.00	9.13
1	20	0.13	10.00	9.13
1	20	0.13	10.00	9.13
1	20	0.13	10.00	9.13
1	30	0.13	28.00	15.87
2	10	0.25	10.00	38.71

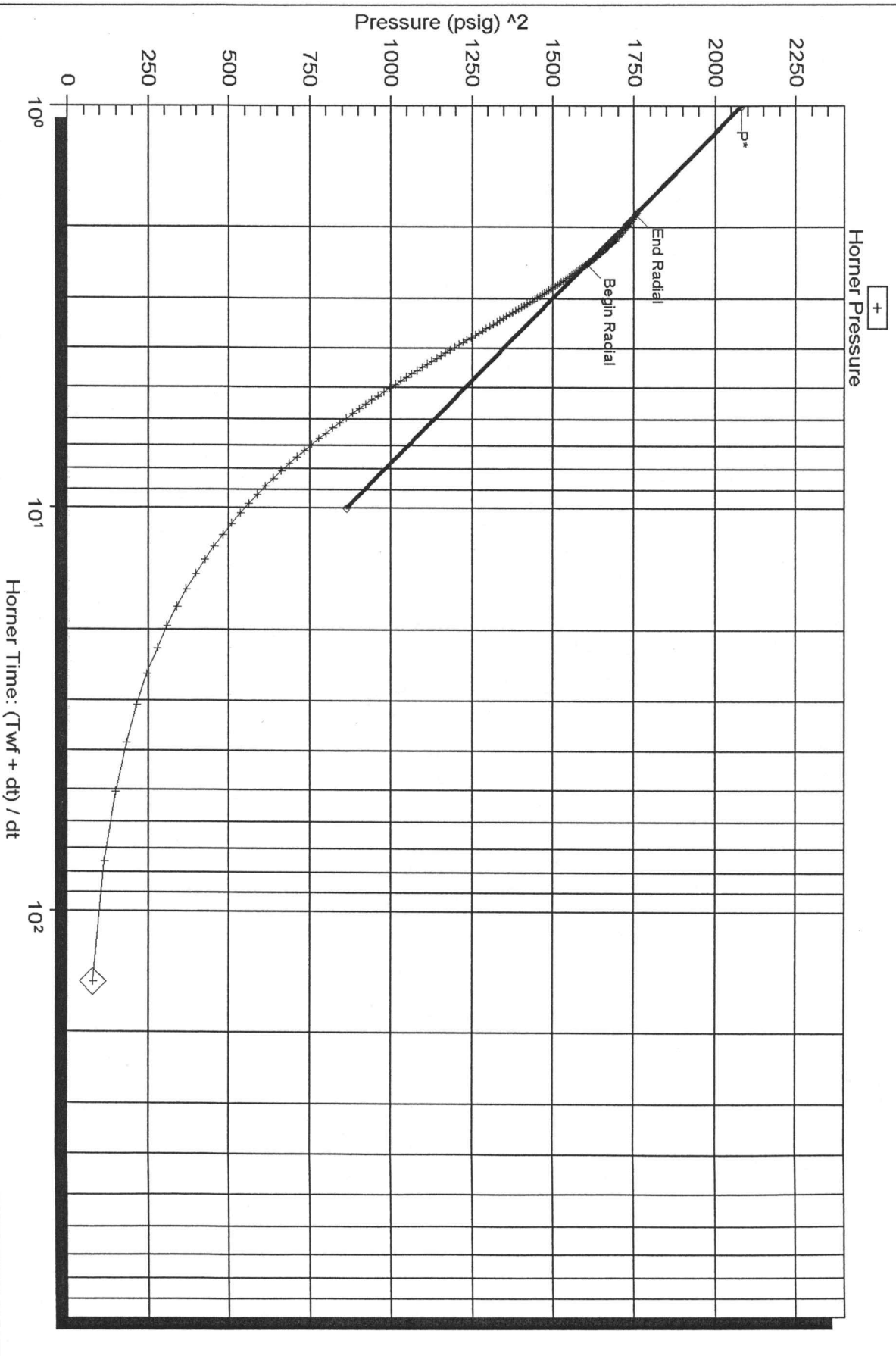
Pressure vs. Time



Horner Plot



Horner Plot



Serial Number: 3024 (Inside)

P# 2082.39

Flow Cycle: 2



GAS VOLUME REPORT

Weldon #1

OPERATOR

WELL NAME AND NO.

DST NO.

gas to surface in 19 min

Remarks:

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20011437

Analyzed: 03/20/01

Sample From: Weldon #1 DST 1

Pressure:

Producer: Thoroughbred Assoc.

Temperature:

Date: Location: 22-32-19

Time:

County: Comanche

Sampler:

State: Kansas

Source:

Formation: Miss

	Mole %	GPM
Helium	He: 0.081	0.000
Hydrogen	H2: 0.007	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.096	0.000
Carbon Dioxide	CO2: 0.061	0.000
Methane	C1: 94.030	0.000
Ethane	C2: 2.762	0.739
Propane	C3: 0.958	0.264
Iso Butane	iC4: 0.147	0.048
Normal Butane	nC4: 0.291	0.092
Iso Pentane	iC5: 0.097	0.035
Normal Pentane	nC5: 0.108	0.039
Hexanes Plus	C6+: 0.362	0.158

TOTAL: 100.000 1.375

Z Fact: 0.9978

SP.GR.: 0.6029

BTU (SAT): 1050.0 @ 14.73 psia

BTU (DRY): 1068.6 @ 14.73 psia

OCTANE RATING: 126.6

COMMENTS:

0.000