

03-335-16w

15-033-21398

AP1 15-033-21398



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castelli Exp.**

908 nw 112th
Oklahoma City OK

ATTN: Rick

nw4-nw4-133sr16w sec 3

Lenertz 1-3

Start Date: 2004.05.29 @ 01:20:16

End Date: 2004.05.29 @ 13:13:16

Job Ticket #: 18934 DST #: 1

CM

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

Castelli Exp.

Lenertz 1-3

sec 3
nw4-nw4-133sr16w

DST # 1

Pawnee

2004.05.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castelli Exp.
908 nw 112th
Oklahoma City OK
ATTN: Rick

Lenertz 1-3
nw4-nw4-t3sr16w
Job Ticket: 18934 **DST#:1**
Test Start: 2004.05.29 @ 01:20:16

GENERAL INFORMATION:

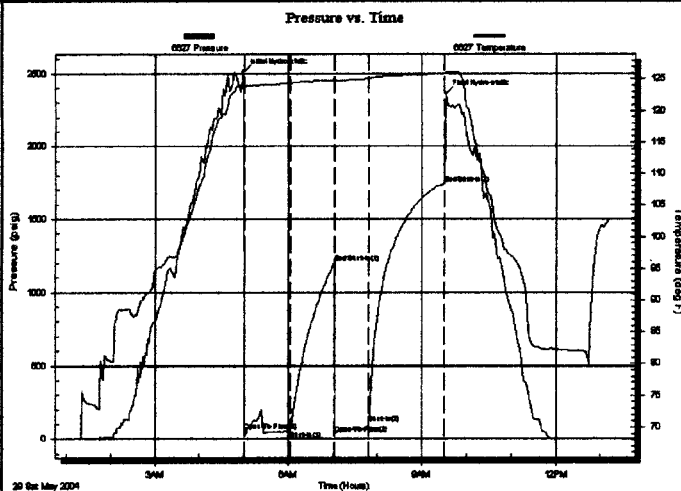
Formation: **Pawnee**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 05:01:16
Time Test Ended: 13:13:16
Interval: **4834.00 ft (KB) To 4858.00 ft (KB) (TVD)**
Total Depth: **5050.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Good**

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Test Type: **Conventional Straddle**
Tester: **Kevin**
Unit No: **27**
Reference Elevations: **1865.00 ft (KB)**
1852.00 ft (CF)
KB to GRYCF: **13.00 ft**

Serial #: 6627 **Inside**
Press@RunDepth: **102.91 psig @ 4836.00 ft (KB)**
Start Date: **2004.05.29** End Date: **2004.05.29** Capacity: **7000.00 psig**
Start Time: **01:20:18** End Time: **13:13:16** Last Calib.: **1899.12.30**
Time On Blm: **2004.05.29 @ 04:59:16**
Time Off Blm: **2004.05.29 @ 09:32:16**

TEST COMMENT: IF- good blow bob 2min
IS- no blow back
FF- good blow bob 2 min gts 20 min tstm
FSI- weak surface blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2511.10	123.88	Initial Hydro-static
2	53.19	123.79	Open To Flow(1)
64	54.44	124.33	Shut-In(1)
123	1202.99	124.86	End Shut-In(1)
124	34.81	124.63	Open To Flow(2)
169	102.91	125.06	Shut-In(2)
271	1742.67	125.85	End Shut-In(2)
273	2363.28	126.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	100% mud	0.30
62.00	10% gas 5% water 85% mud	0.30
62.00	15% gas 10% water 75% mud	0.30

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exp.

Lenertz 1-3

908 nw 112th
Oklahoma City OK

nw4-nw4-433a16w

Job Ticket: 18934

DST#: 1

ATTN: Rick

Test Start: 2004.05.29 @ 01:20:16

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: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	100% mud	0.305
62.00	10% gas 5% water 85% mud	0.305
62.00	15% gas 10% water 75% mud	0.305

Total Length: 186.00ft Total Volume: 0.915 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 602

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: sampler had 27 cu ft. gas @ 1600 lbs

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TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Castelli Exp.

Lenertz 1-3

908 nw 112th
Oklahoma City OK

nw4-nw4-t33a16w

Job Ticket: 18934

DST#: 1

ATTN: Rick

Test Start: 2004.05.29 @ 01:20:16

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

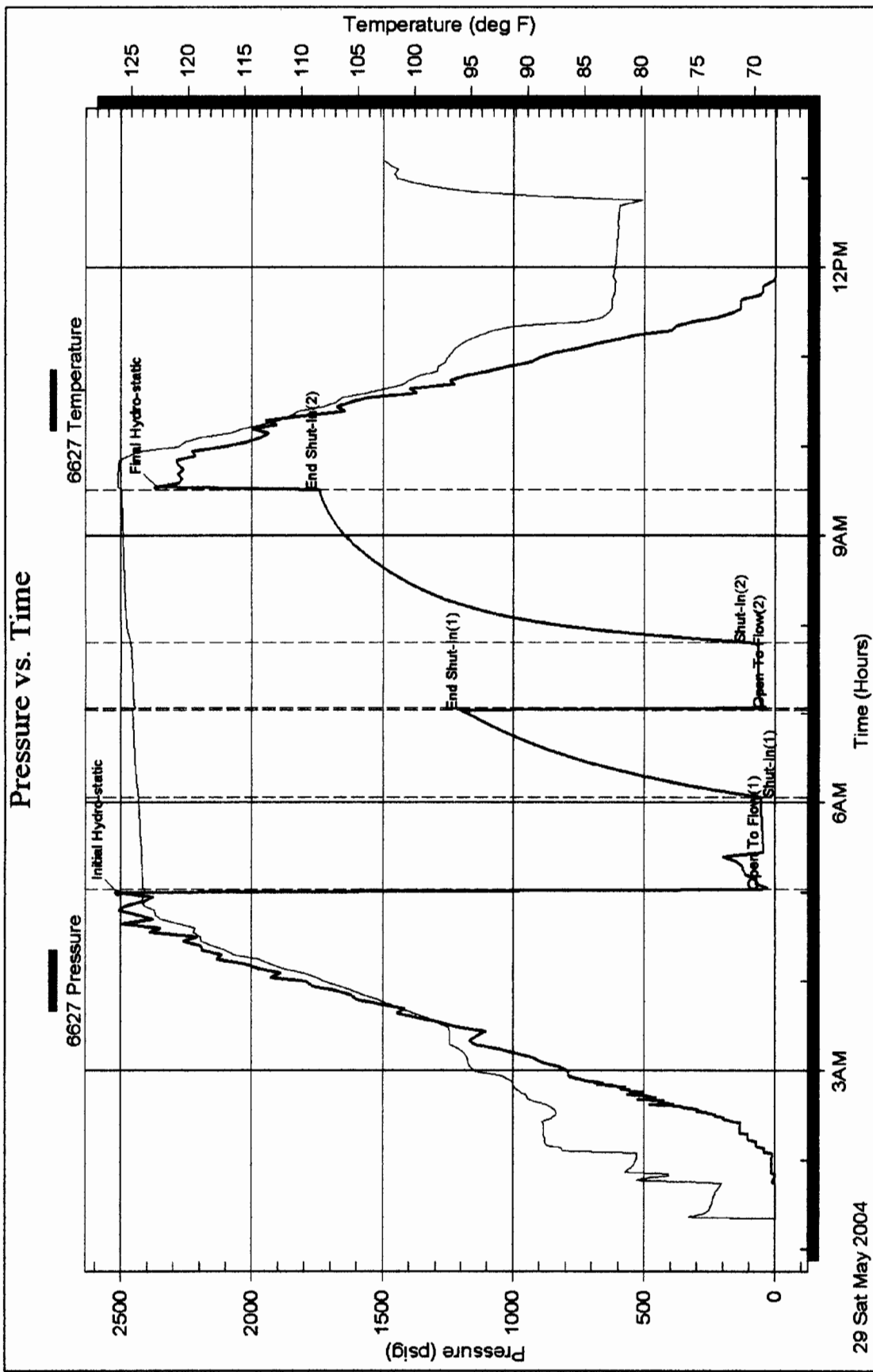
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00

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Pressure vs. Time



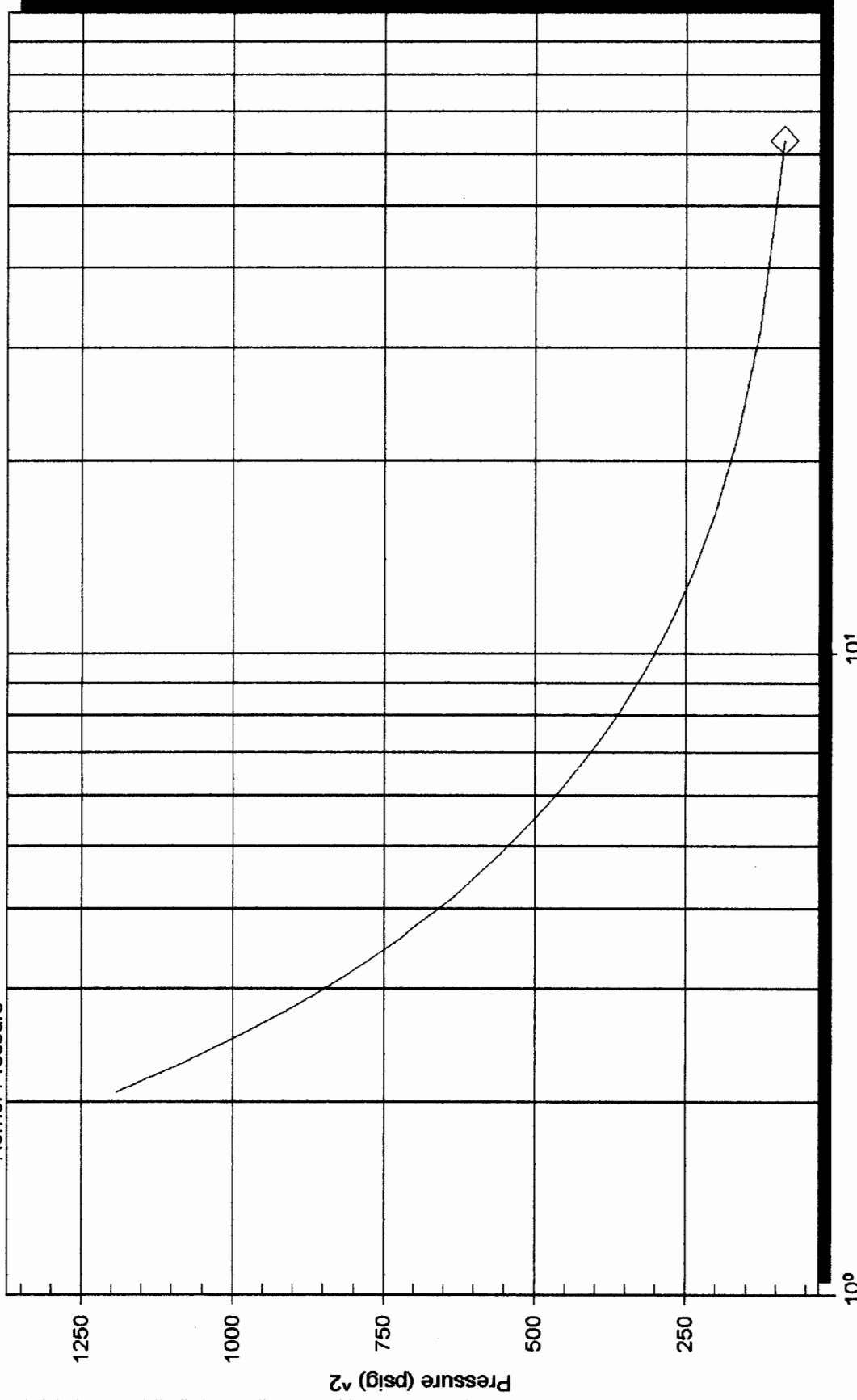
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Horner Plot

Horner Pressure



Serial Number: 6627 (inside)

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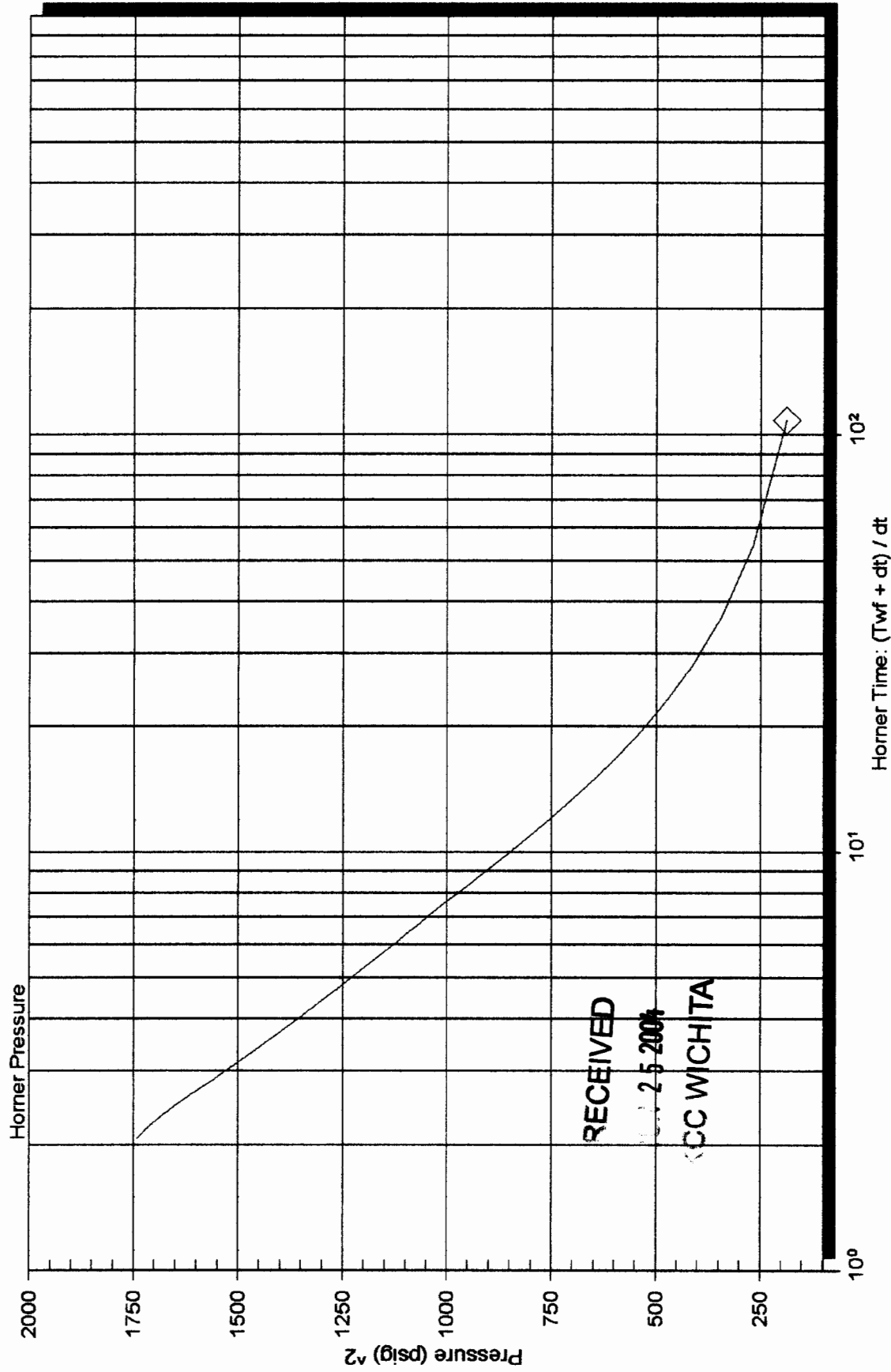
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P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



Serial Number: 6627 (inside)

P* : Slope (m) : kpa/log cycle

Flow Cycle: 2