

DATE IN 8/26/08	SUSPENSE	ENGINEER W. Jones	LOGGED IN 8/26/08	TYPE IPI	APP NO PKVR0823954072
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Scott Wilkins
 Print or Type Name

Scott Wilkins
 Signature

Resource Manager
 Title

8/26/08
 Date

wilkinsk@bp.com
 e-mail Address

BP America
 33
 2008 AUG 26 PM 10 30
 RECEIVED

August 21, 2008

New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

2008 AUG 25 PM 1 43

Attn: Mr. Richard Ezeanyim

RE: Injection Pressure Increase
Washington 33 State Waterflood
Section 33, Township 17S, Range 28E
Eddy County, New Mexico

Dear Mr. Ezeanyim,

BP is requesting permission to increase the surface injection pressure on Washington 33 State injectors as follows:

Well No.	API Number	Current Regulated Maximum Surface Pressure (psia) <i>(see) IPT - 282</i>	Formation Parting Pressure at Surface (psia) (determined from attached step rate tests)	New Proposed Maximum Surface Pressure (psia)
4	3001530188	534	695	695
10	3001530192	577	682	682
18	3001521745	606	707	707
23	3001530333	718	879	879

650 .46
650 .46
650 .45
800 .55

This request is based on step rate tests conducted during the July 23-25, 2008, by Precision Pressure Data. The results from each of the step rate tests are attached to this letter.

Please review this information and contact me with any questions or concerns.

Thanks,

John Johanning
Reservoir Engineer
BP
501 Westlake Park Blvd, WL1 6.195
Houston, TX 77079
Tel. (281) 366-3954
Fax (281) 366-7067
john.johanning@bp.com

BP AMERICA

WASHINGTON 33 STATE #10

EDDY COUNTY, NEW MEXICO

**TEST DATE
7/23/2008**

STEP RATE TEST

Ran step rate test with electric surface readout unit, 1 electronic pressure instrument @ run depth of 2,250' and surface pressure transducer.

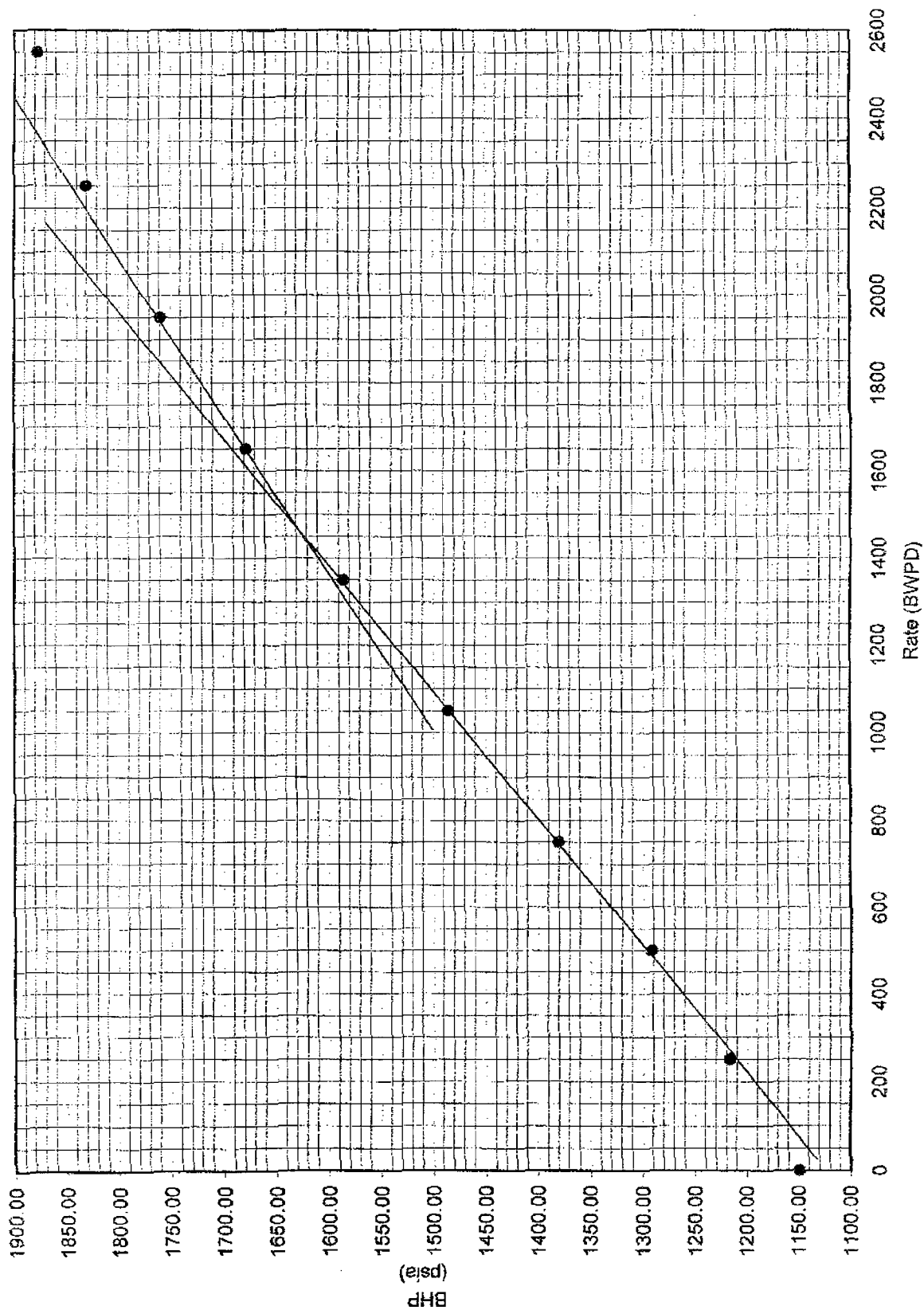
BP AMERICA
WASHINGTON 33 STATE #10
TEST DATE 7/23/2008

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STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #10
7/23/2008

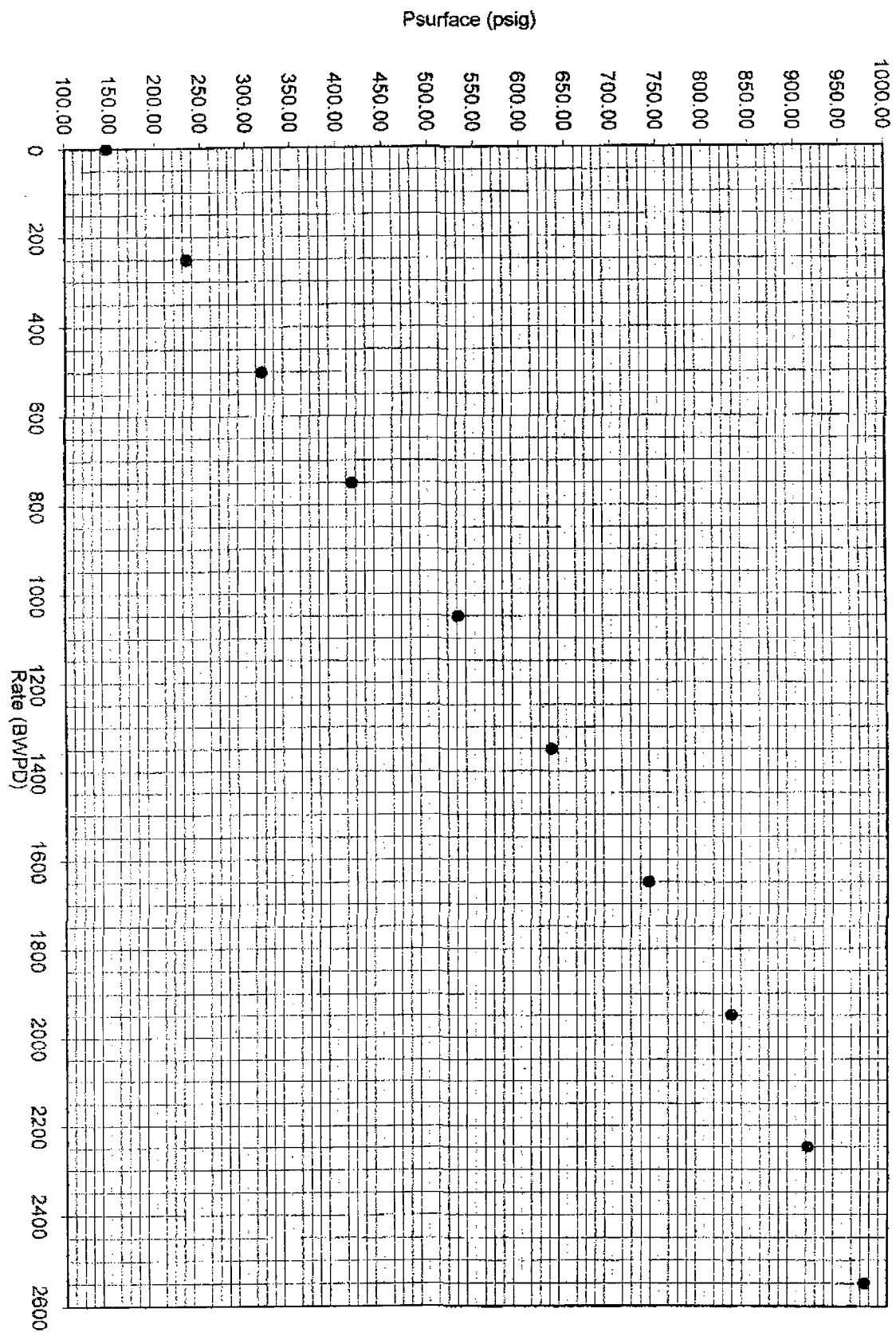
PRODUCTION
PRECISION
DATA, INC.

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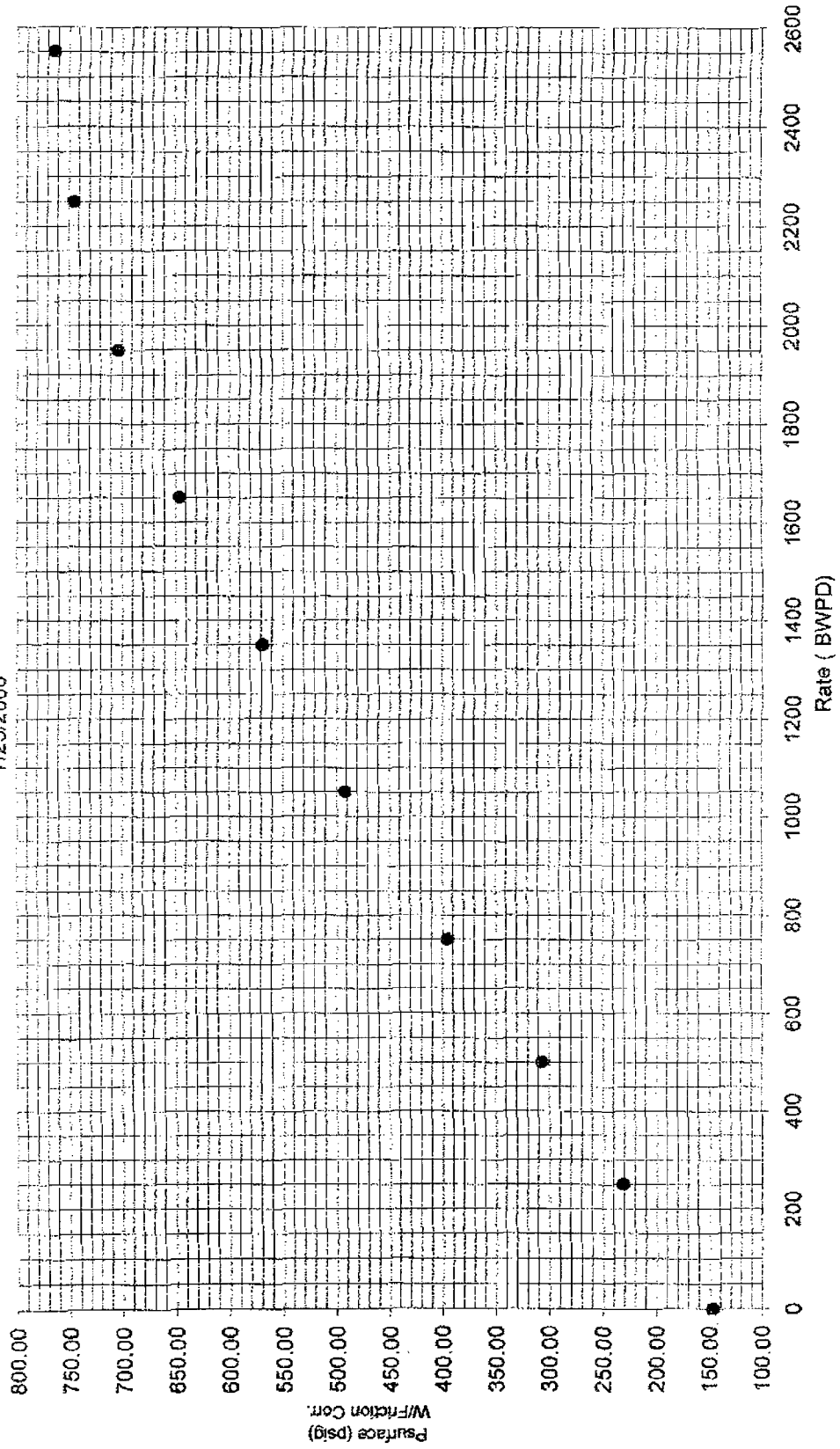
STEP RATE TEST
 BP AMERICA
 WASHINGTON 33 STATE #10
 7/23/2008

INFORMATION
 MASSACHUSETTS
 WASH. STATE



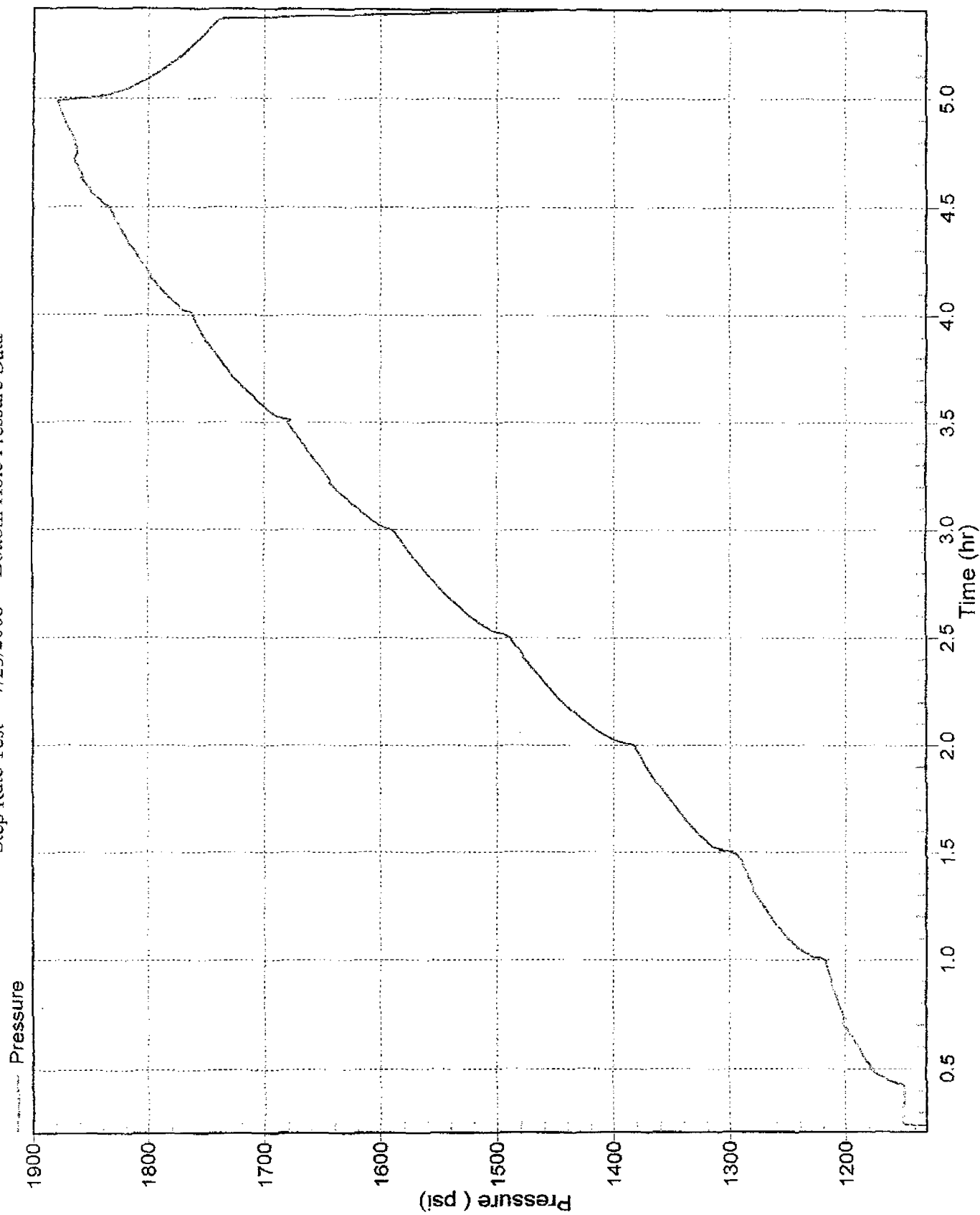
STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #10
7/23/2008

ADDITIONAL
INFORMATION
DATA LOG



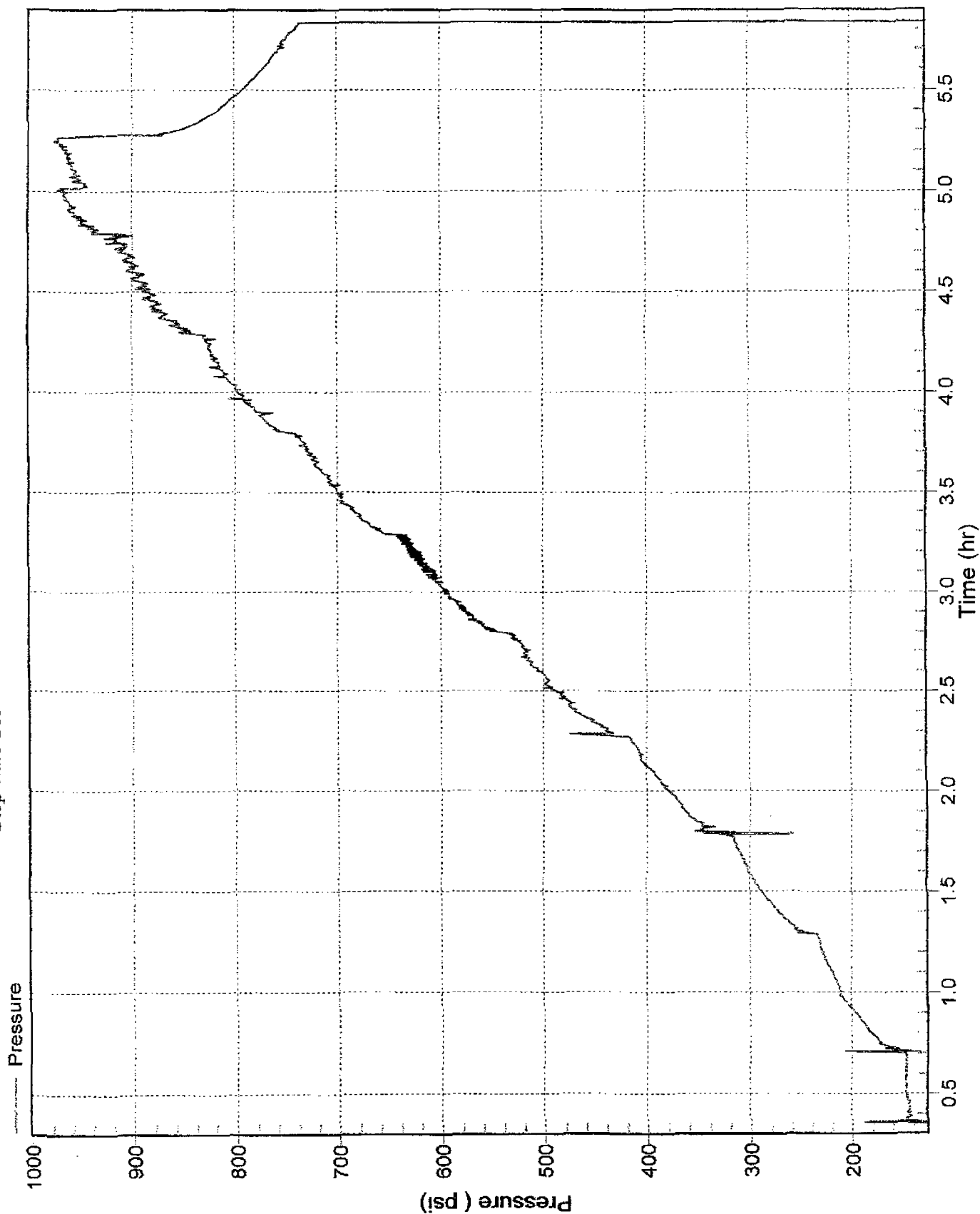
BP AMERICA - WASHINGTON 33 STATE #10

Step Rate Test 7/23/2008 Bottom Hole Pressure Data



BP AMERICA - WASHINGTON 33 STATE #10

Step Rate Test 7/23/2008 Surface Pressure Data



BP AMERICA

WASHINGTON 33 STATE #4

EDDY COUNTY, NEW MEXICO

**TEST DATE
7/23/2008**

STEP RATE TEST

Ran step rate test with electric surface readout unit, 1 electronic pressure instrument @ run depth of 2,200' and surface pressure transducer.

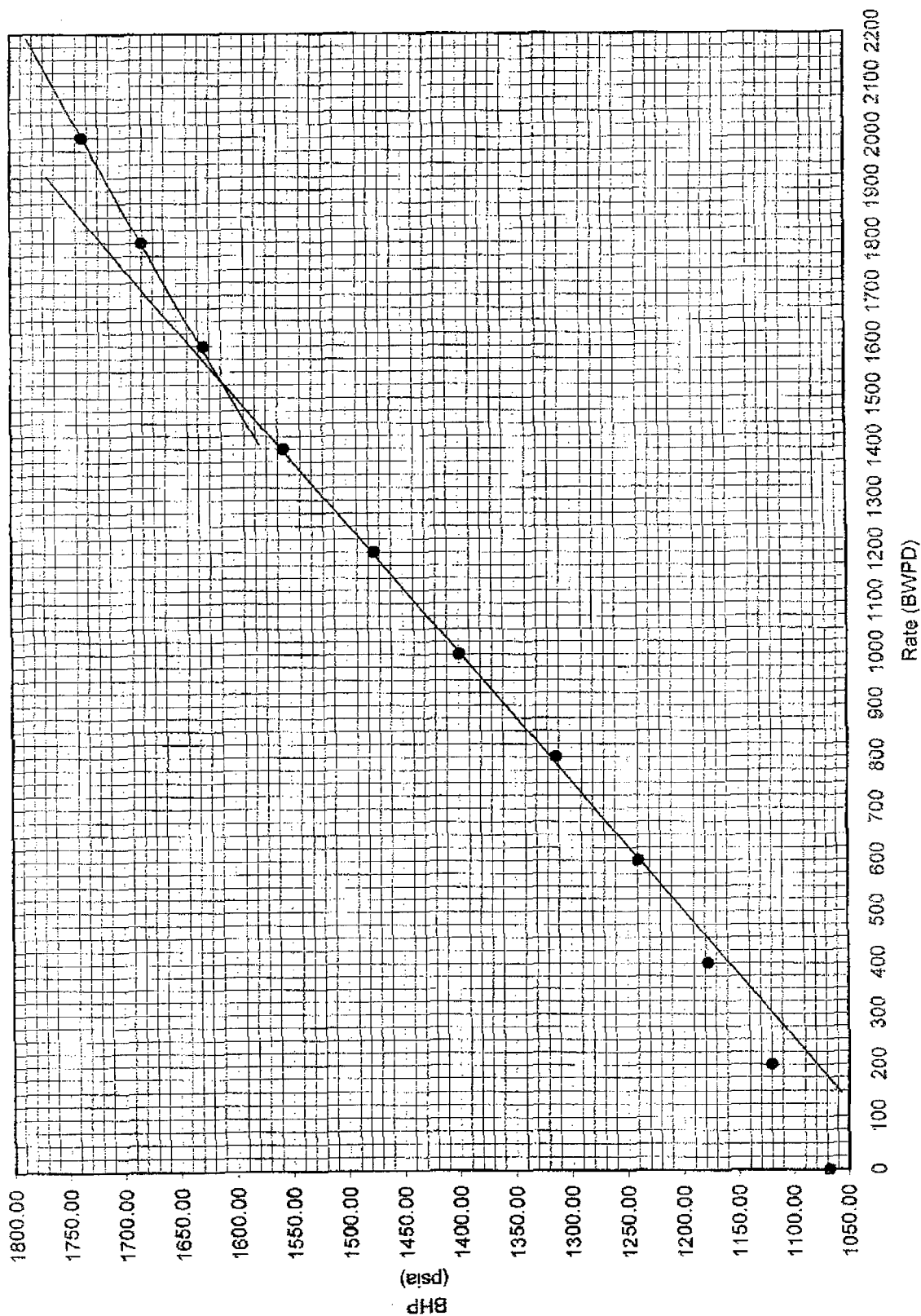
BP AMERICA
WASHINGTON 33 STATE #4
TEST DATE 7/23/2008

Run Depth: 2200	Perforations: 1414-2506
Formation: San Andres	Total Depth: 3400
Casing Depth: 1341	Pkr. Depth: 1341
Tested By: J. Chesshir	Instrument #: 78302

= 695 SP

STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #4
7/23/2008

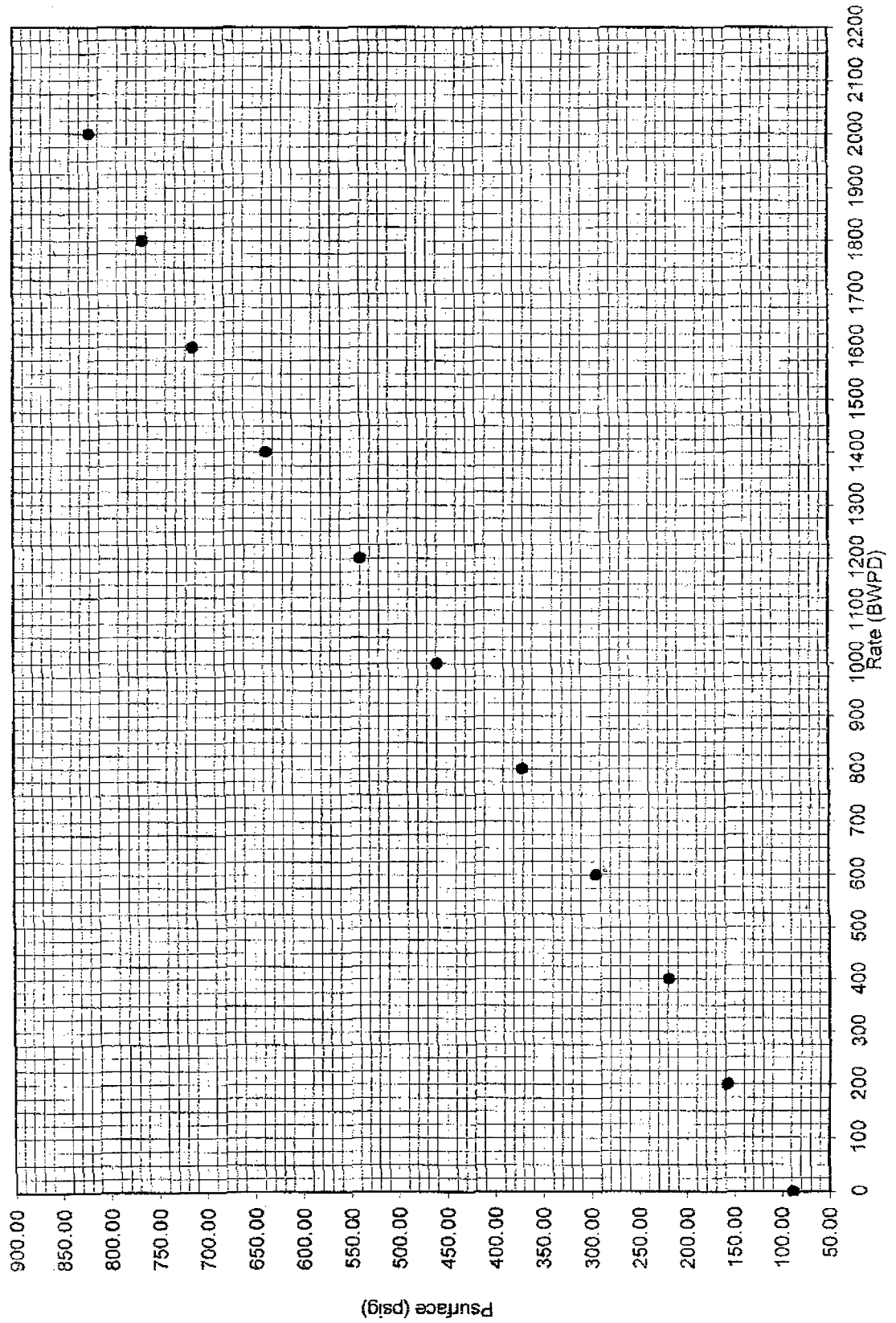
PRECISION
PRESSURE
DATA, INC.



STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #4
7/23/2008

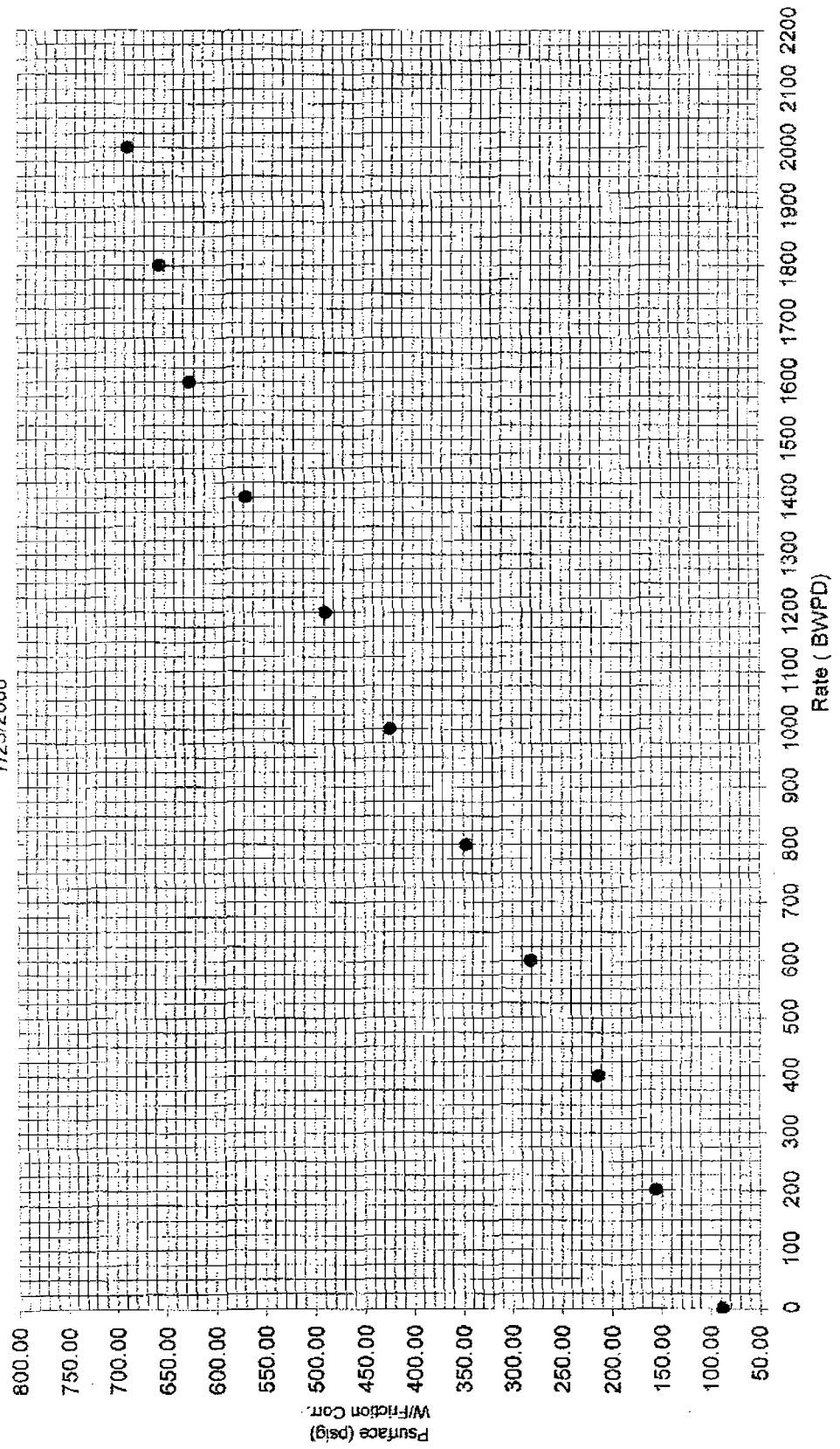
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PRESSURE
DATA, INC.



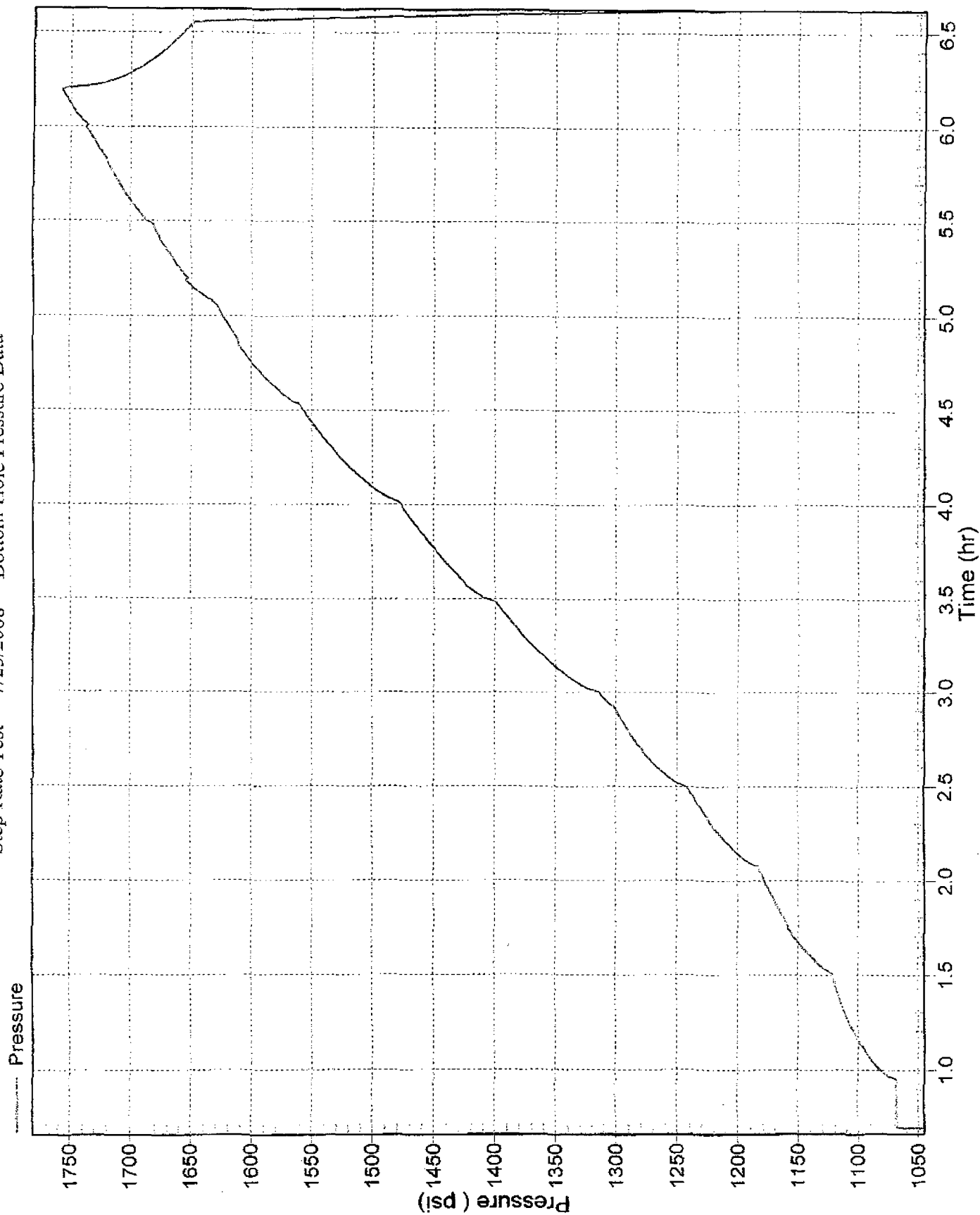
STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #4
7/23/2008

DATE: 7/23/08
TIME: 08:00
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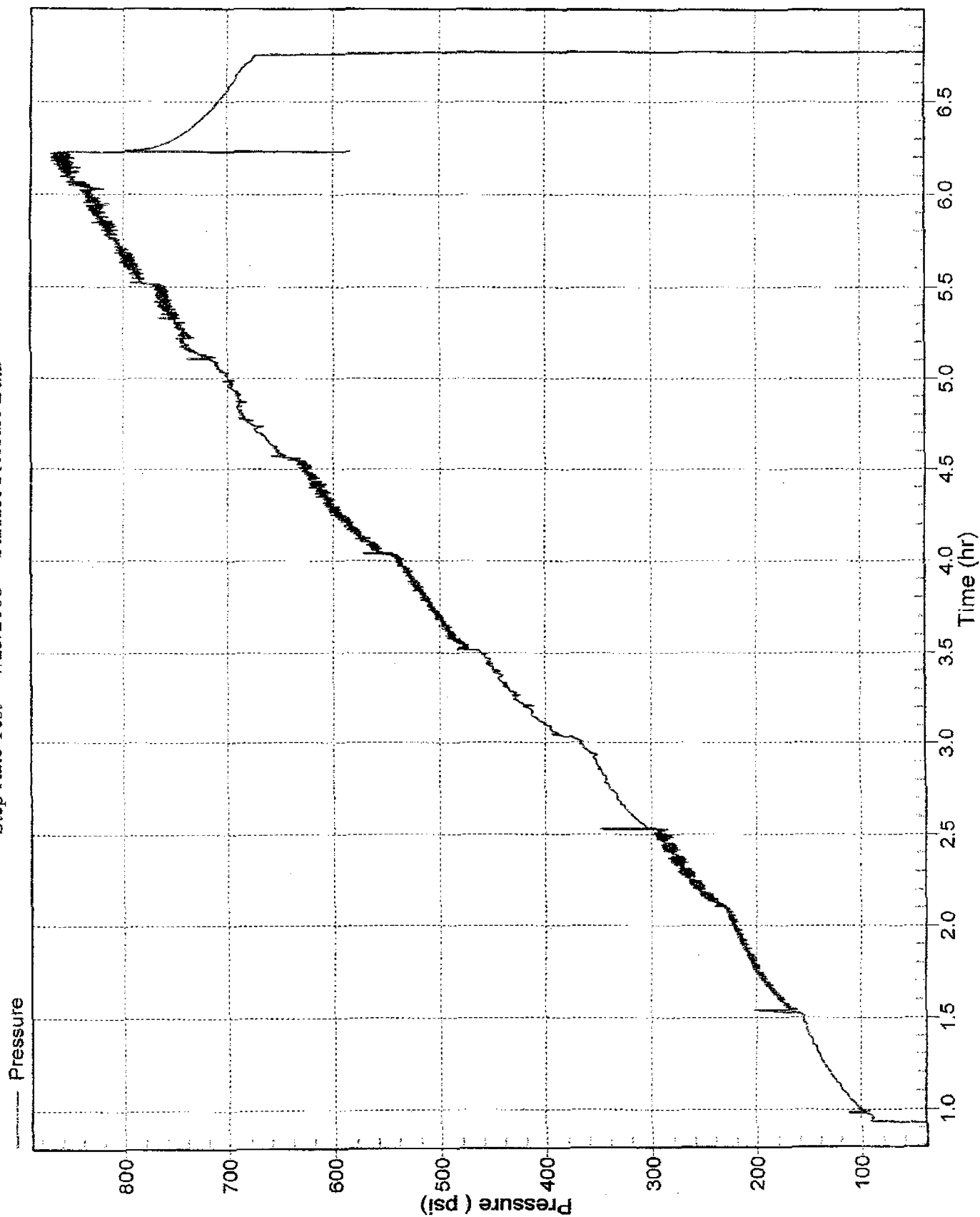
BP AMERICA - WASHINGTON 33 STATE #4

Step Rate Test 7/23/2008 Bottom Hole Pressure Data



BP AMERICA - WASHINGTON 33 STATE #4

Step Rate Test 7/23/2008 Surface Pressure Data



BP AMERICA

WASHINGTON 33 STATE #18

EDDY COUNTY, NEW MEXICO

**TEST DATE
7/24/2008**

STEP RATE TEST

Ran step rate test with electric surface readout unit, 1 electronic pressure instrument @ run depth of 2,250' and surface pressure transducer.

BP AMERICA
WASHINGTON 33 STATE #18
TEST DATE 7/24/2008

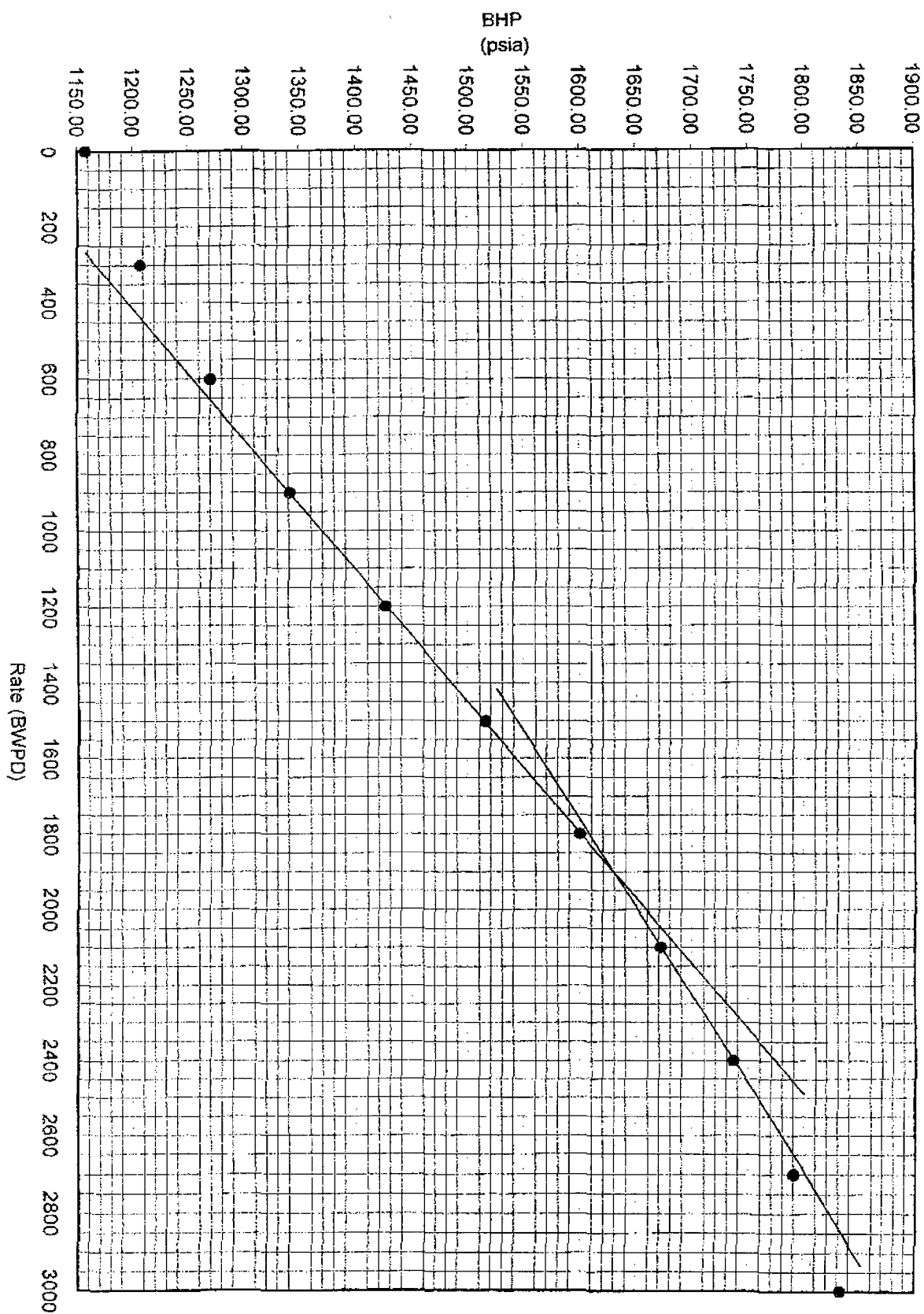
Run Depth: 2250	Perforations: 1462-2985
Formation: San Andres	Total Depth: 6015
Casing Depth: 1425	Pkr. Depth: 1425
Tested By: J. Chesshir	Instrument #: 78302

Parting Pressures @ 1631 BHP (psia) @ 1905 BWPD

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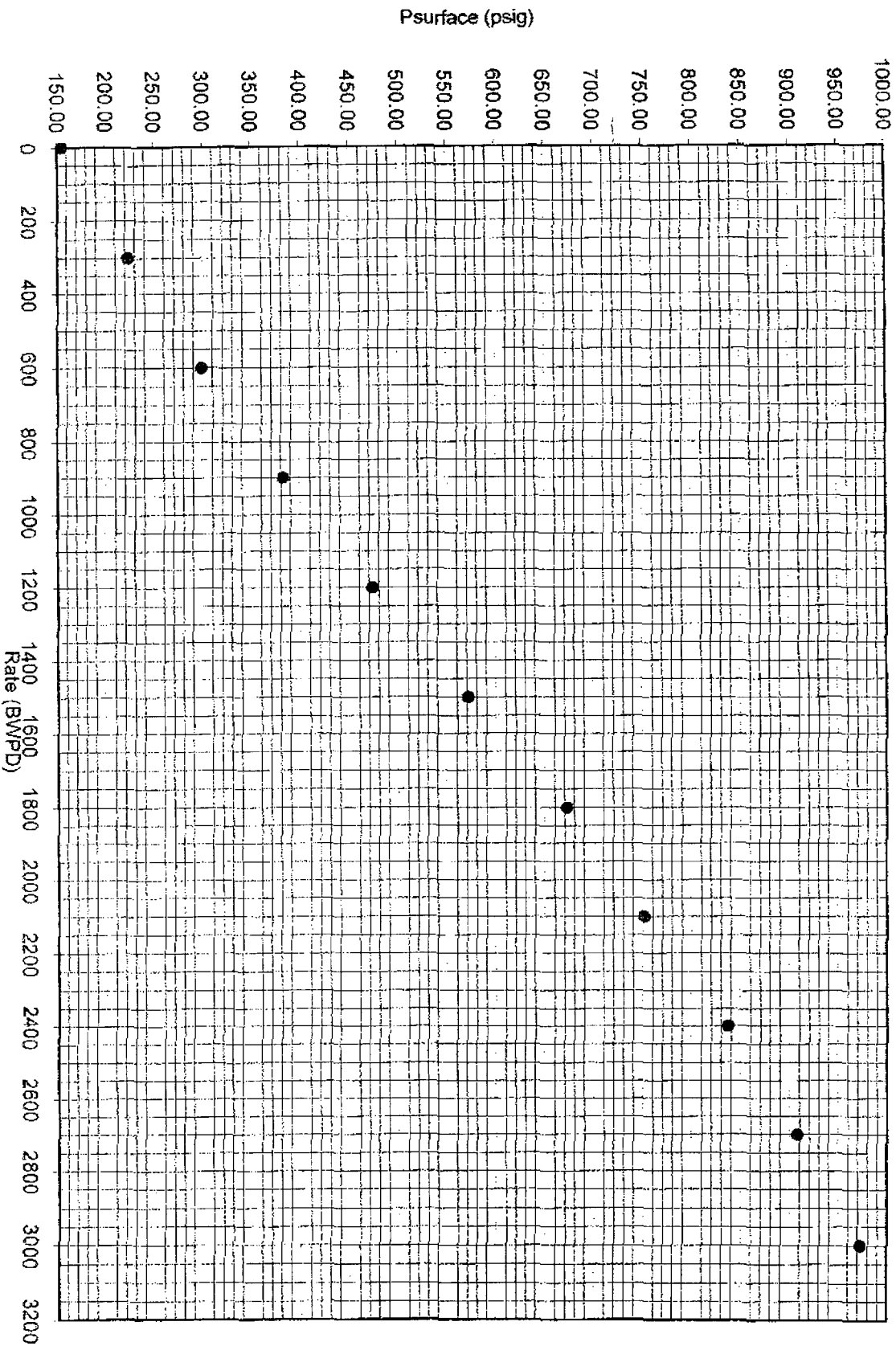
STEP RATE TEST
 BP AMERICA
 WASHINGTON 33 STATE #18
 7/24/2008

100% - 100%
 100% - 100%
 100% - 100%



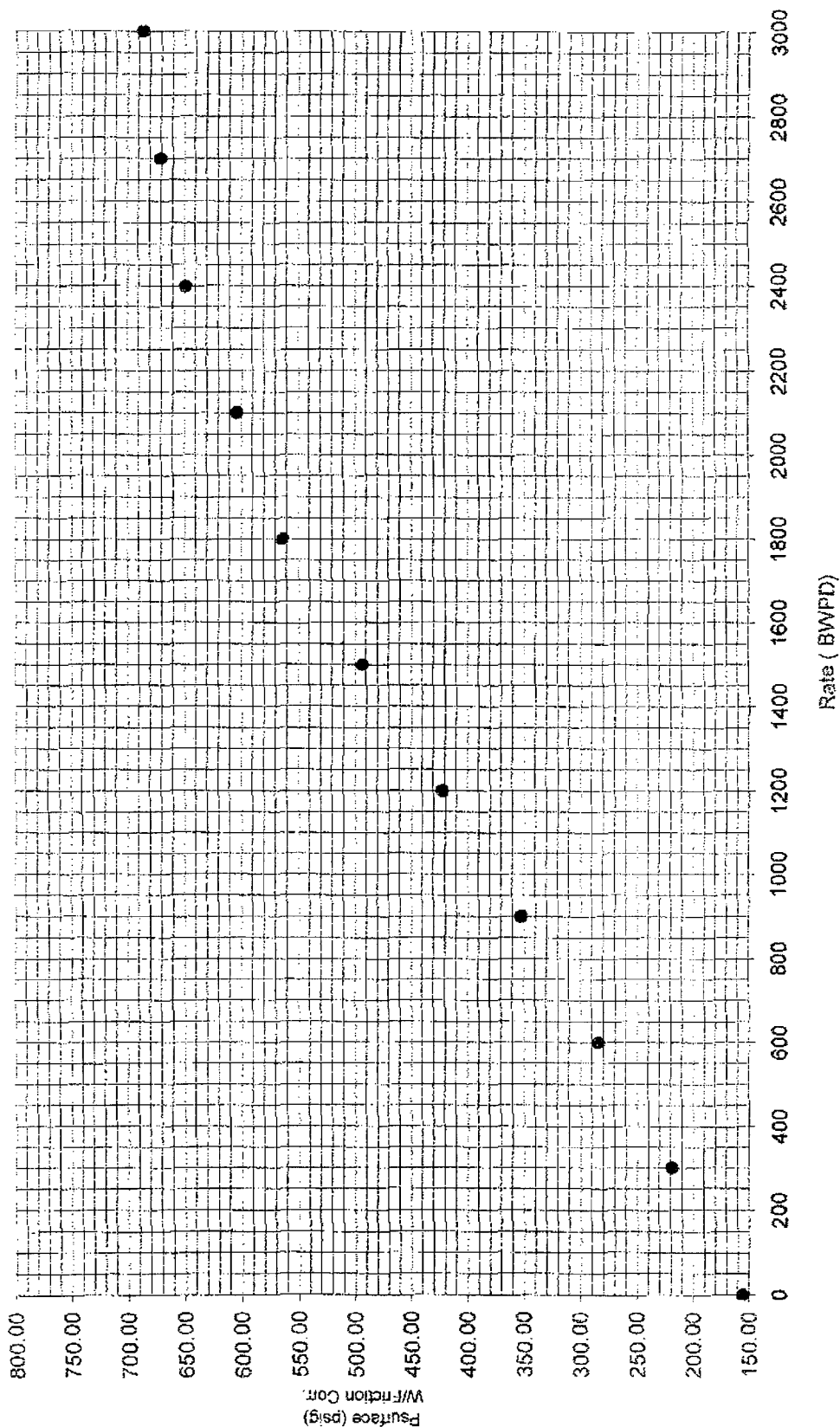
STEP RATE TEST
 BP AMERICA
 WASHINGTON 33 STATE #18
 7/24/2008

ANALYST
 PREPARED
 DATE



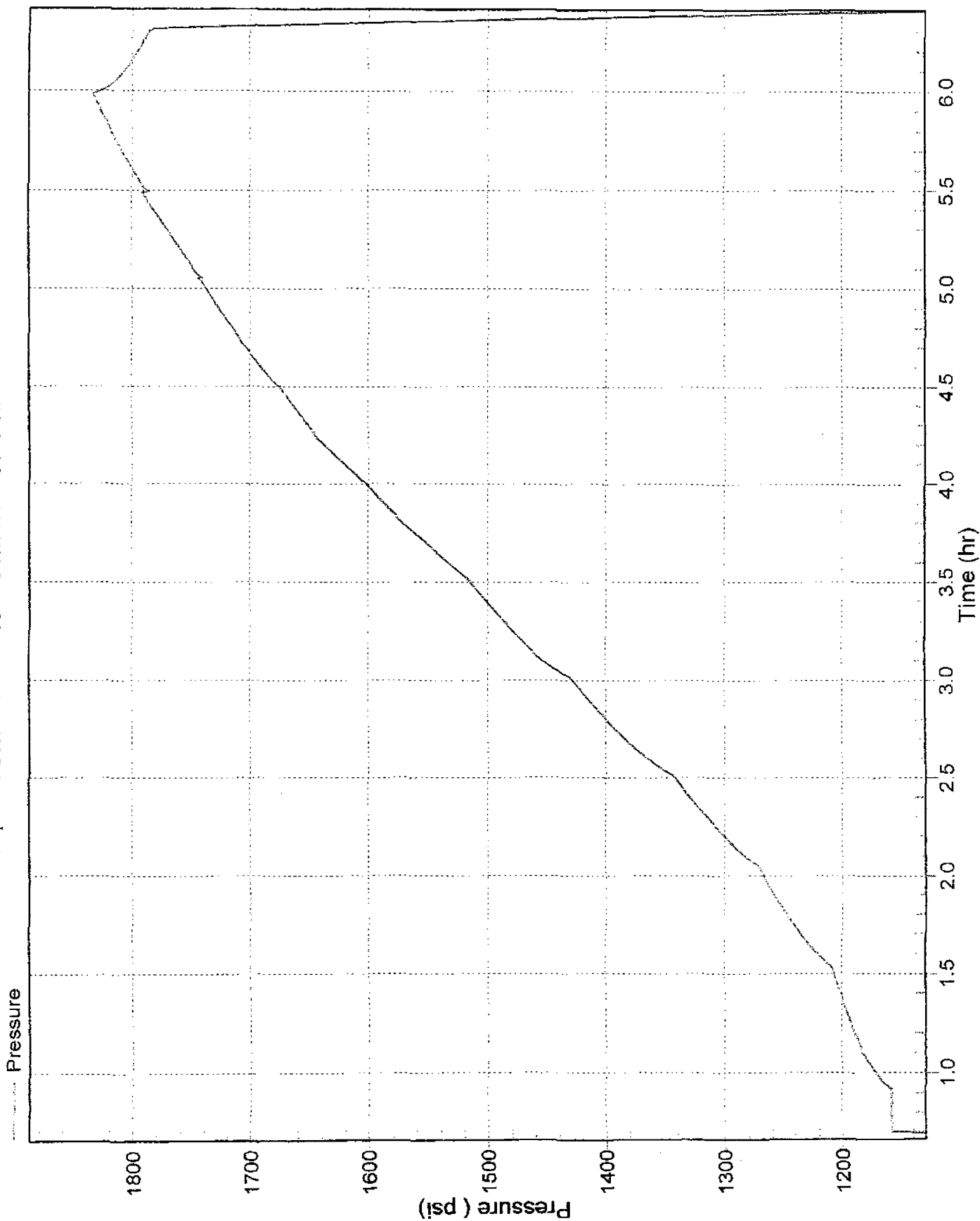
STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #18
7/24/2008

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PRESSURE
DATA, INC.



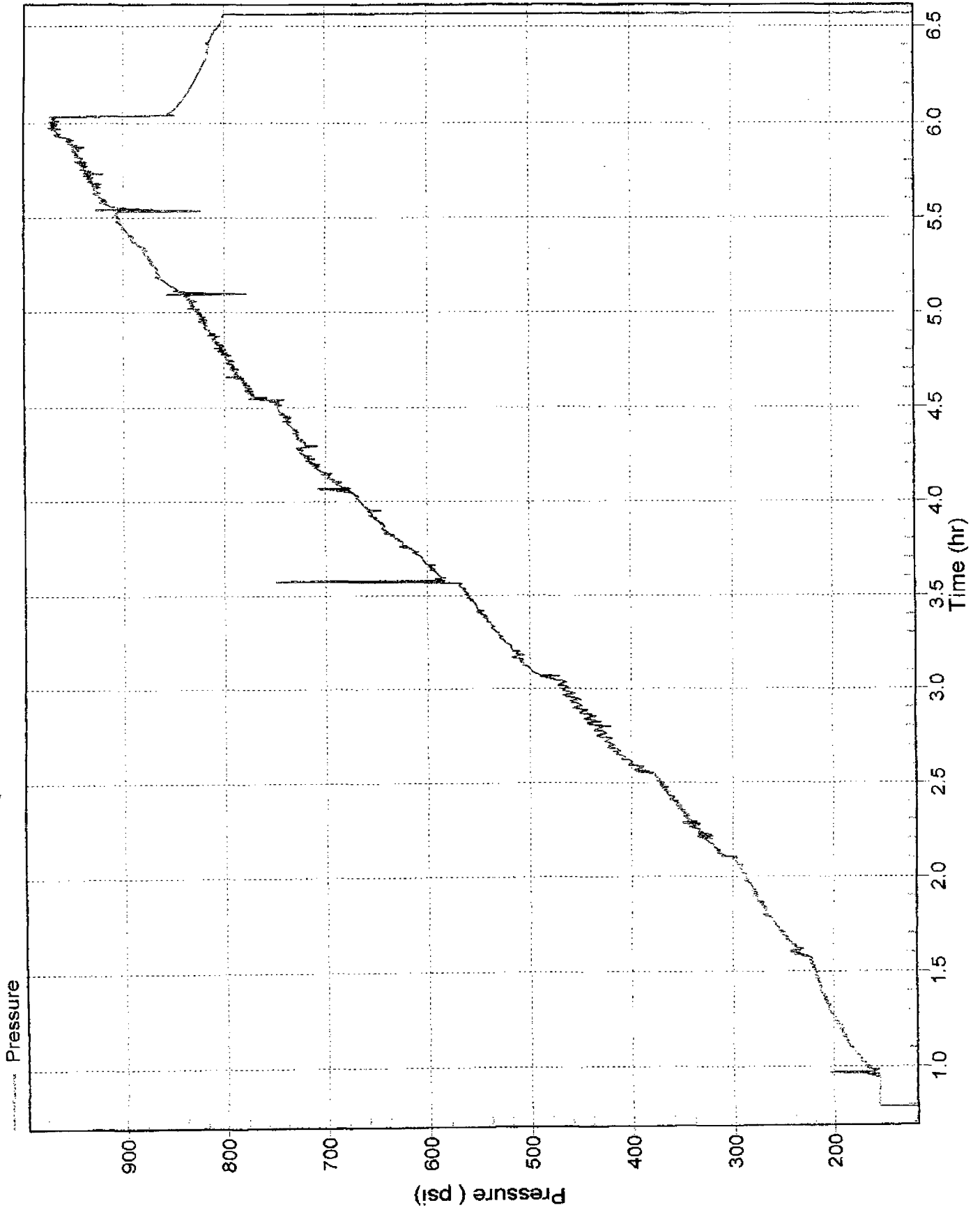
BP AMERICA - WASHINGTON 33 STATE #18

Step Rate Test 7/24/2008 Bottom Hole Pressure Data



BP AMERICA - WASHINGTON 33 STATE #18

Step Rate Test 7/24/2008 Surface Pressure Data



BP AMERICA

WASHINGTON 33 STATE #23

EDDY COUNTY, NEW MEXICO

**TEST DATE
7/25/2008**

STEP RATE TEST

Ran step rate test with electric surface readout unit, 1 electronic pressure instrument @ run depth of 2,150' and surface pressure transducer.

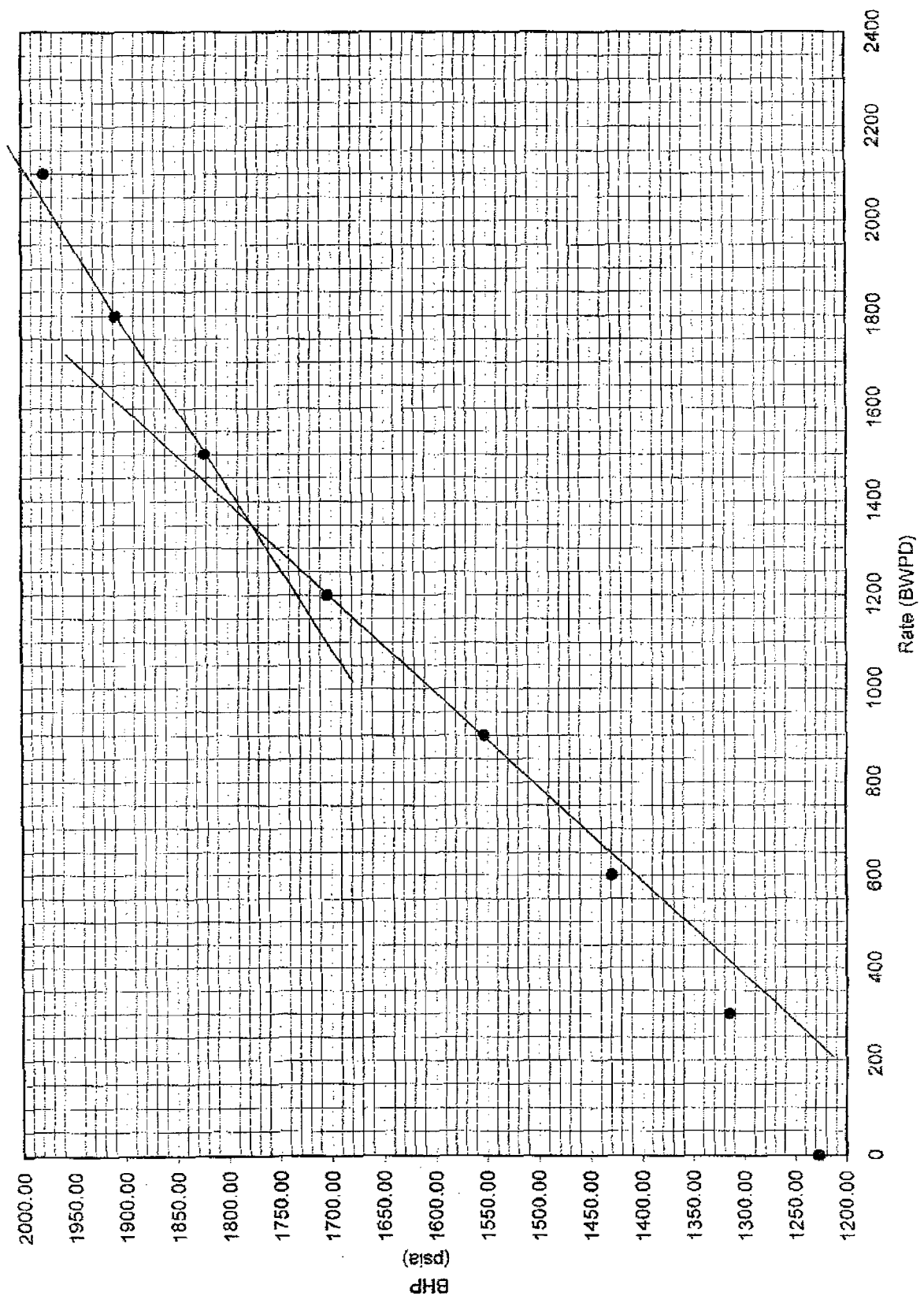
BP AMERICA
WASHINGTON 33 STATE #23
TEST DATE 7/25/2008

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STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #23
7/25/2008

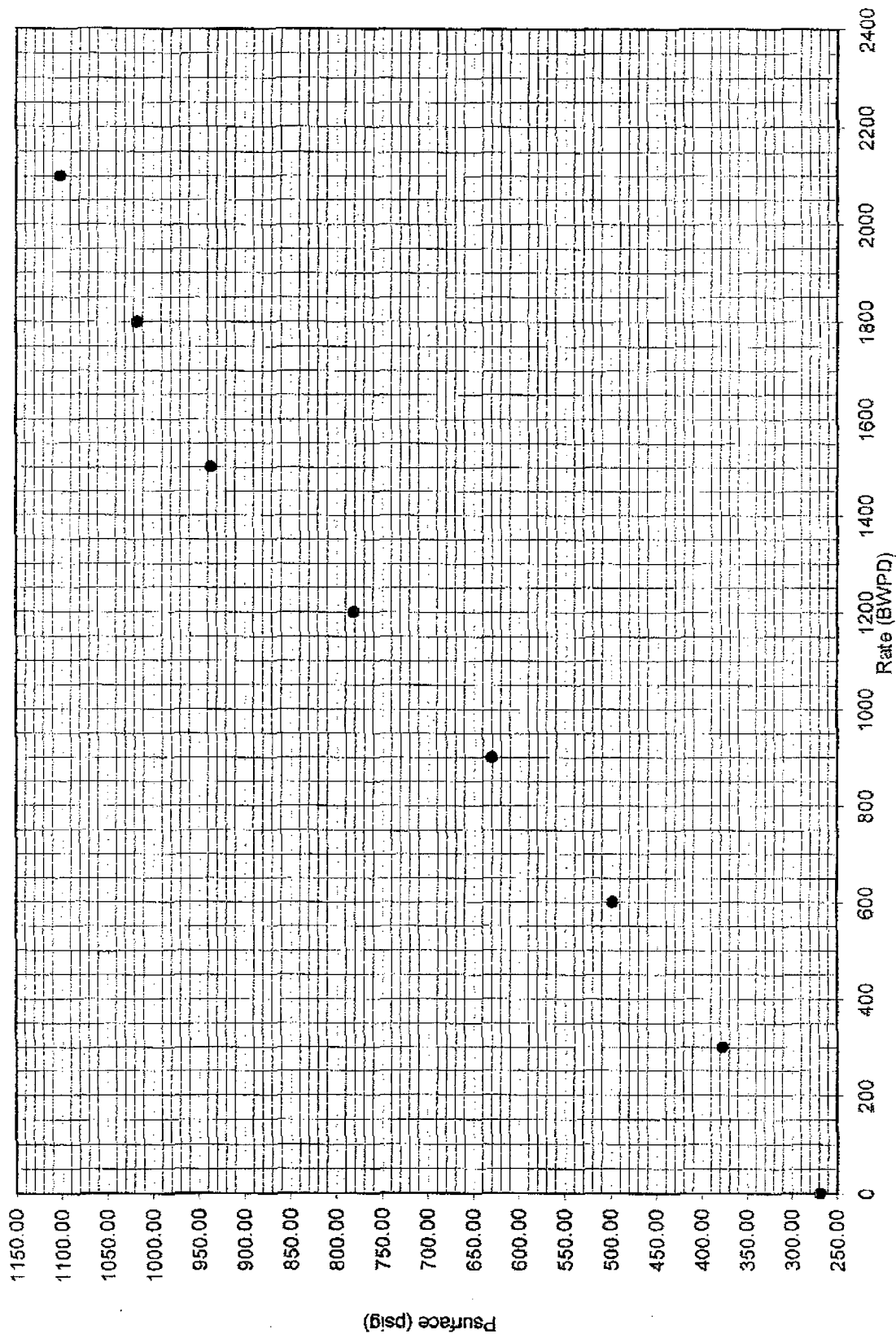
PRECISION PRESSURE DATA, INC.
AMERICAN
DATA, INC.

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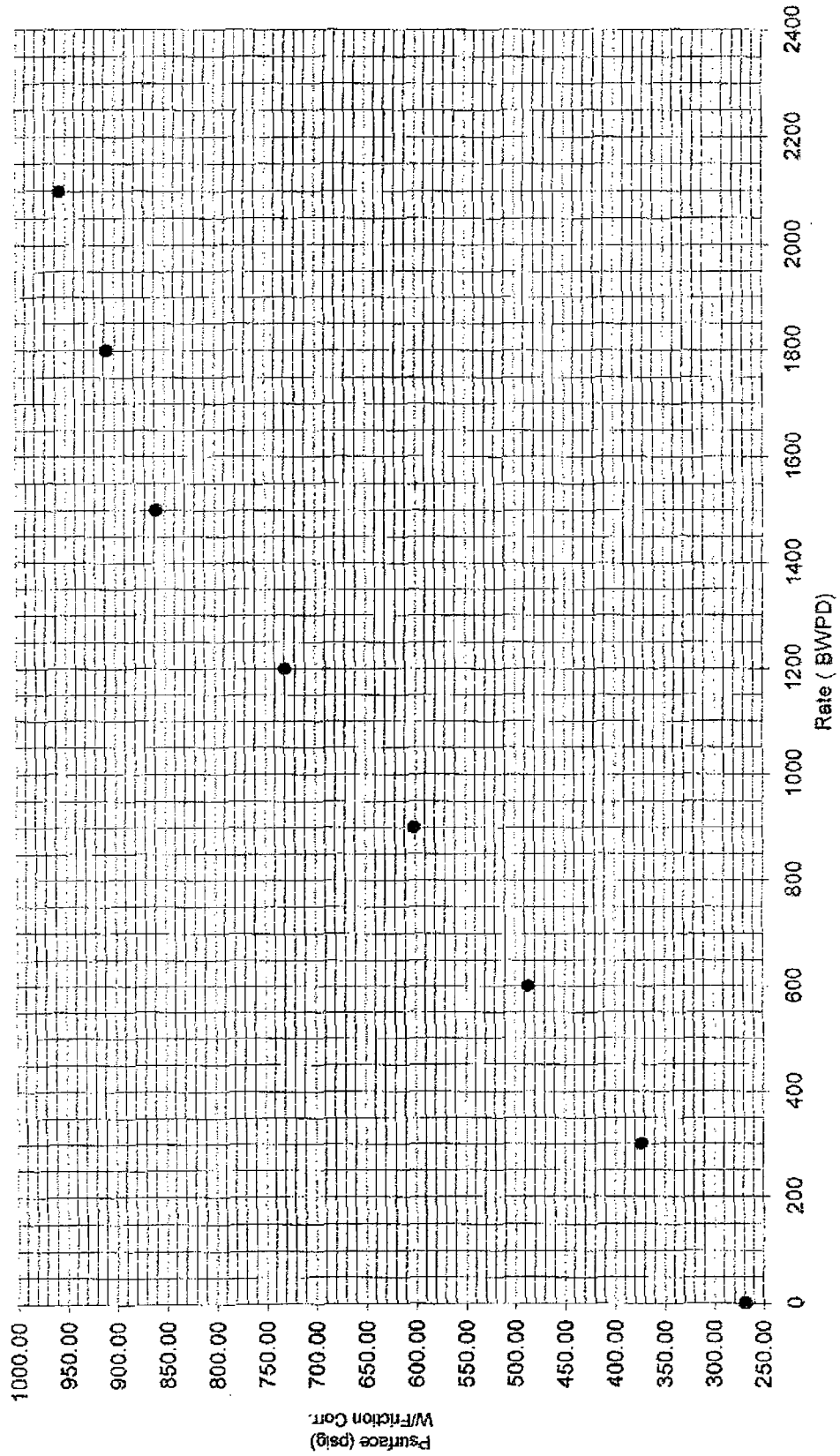
PRECISION
PRESSURE
DATA, INC.

STEP RATE TEST
BP AMERICA
WASHINGTON 33 STATE #23
7/25/2008



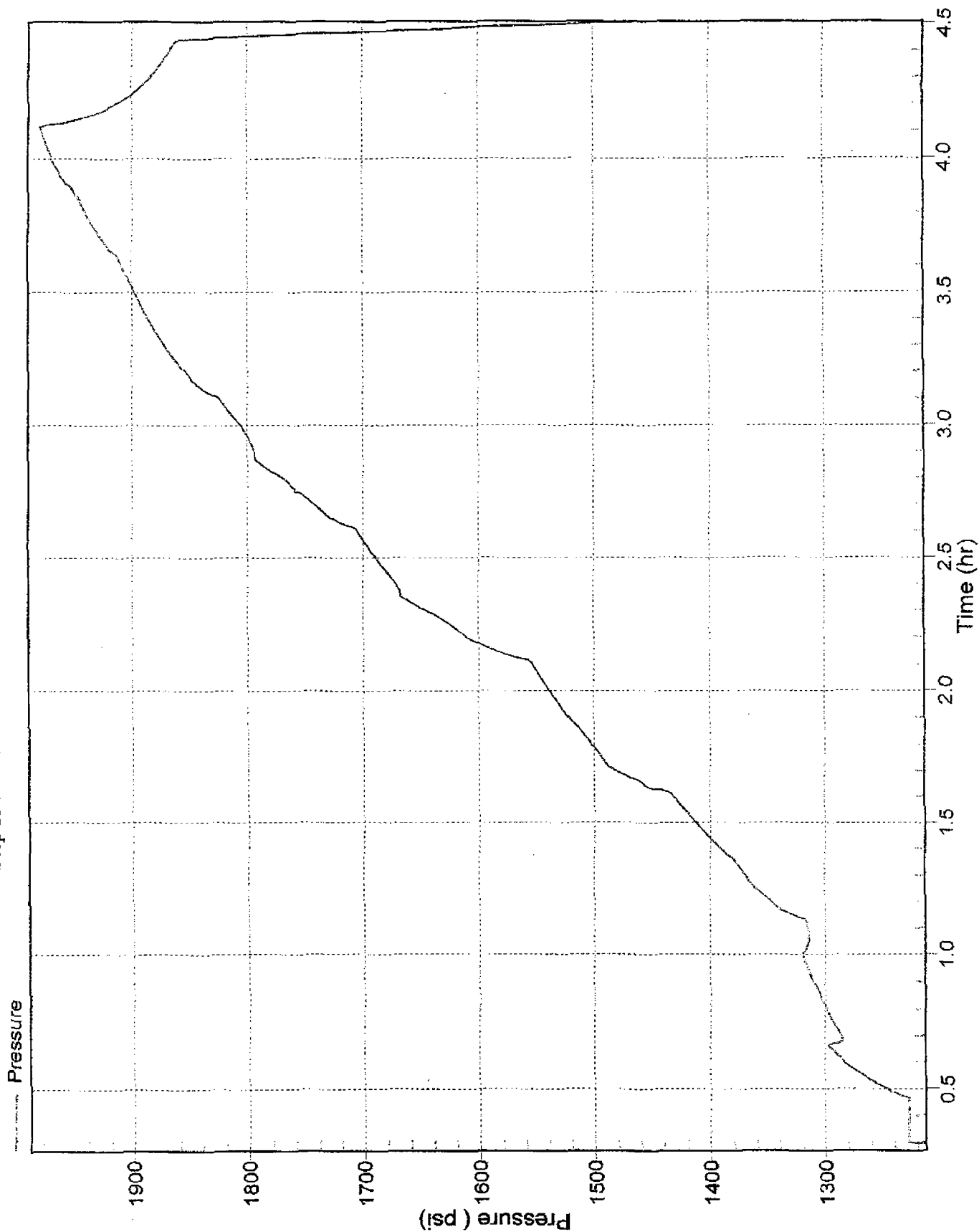
STEP RATE TEST
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WASHINGTON 33 STATE #23
7/25/2008

MEASURED
PRESSURE
DATA ONLY



BP AMERICA - WASHINGTON 33 STATE #23

Step Rate Test 7/25/2008 Bottom Hole Pressure Data



BP AMERICA - WASHINGTON 33 STATE #23

Step Rate Test 7/25/2008 Surface Pressure Data

