

DATE IN	SUSPENSE	ENGINEER <i>Ezeanyin</i>	LOGGED IN <i>10/20/08</i>	EOR TYPE	PKVR0829429324 APP NO.
---------	----------	--------------------------	---------------------------	-------------	---------------------------

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 REGULATIONS 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.

Sharon L. Haggard
 Print or Type Name

Sharon L. Haggard
 Signature

Engineering Advisor
 Title
 Sharon_Haggard@oxy.com

10/15/08
 Date

 e-mail Address

RECEIVED
 2008 OCT 17 AM 11 58



Occidental Permian Ltd.

A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521
P.O. Box 4294, Houston, Texas 77210-4294
Phone 713.215.7000

October 15, 2008

New Mexico Oil Conservation Division
1200 South St. Francis Drive
Santa Fe, NM 87505

Attn: Mr. Richard Ezeanyim

Re: Application of Occidental Permian Limited Partnership for Certification
of Positive Production Response for the Expansion of its North Hobbs
Grayburg San Andres Unit Pressure Maintenance Project F-6199-B, Hobbs
Grayburg/San Andres 31920 Pool, Lea County, New Mexico

Dear Mr. Ezeanyim:

Per Order No. R-6199-B pertaining to the qualification of enhanced oil recovery projects and certification for the recovered oil tax rate, Occidental Permian Limited Partnership, respectfully requests administrative approval and certification of a positive production response on the subject unit. Enclosed are the following items:

Copies of Order No. R-6199-B and Certification of Enhanced Oil Recovery Project, qualifying the Expansion of the North Hobbs Grayburg San Andres Unit Pressure Maintenance Project as an "Enhanced Oil Recovery Project" pursuant to the applicable laws and regulations.

A plat showing the current status of the project (the approved project area is highlighted in orange). The project consisted of utilizing new drills, existing producers and existing water injection wells as CO2 injection wells. These CO2 injection wells are identified in pink.

A production graph showing oil, water, gas produced and water and CO2 injection volumes and well counts. The graph shows CO2 injection commenced March 2003 and we believe first response occurred as early as September 2003 when oil rates increased by 9,922 BOPM from 96,914 BOPM in February 2003, before CO2 injection began, to 106,836 BOPM in September 2003.

A table showing the data used to generate the graph.

We appreciate your consideration of our request. If you have questions or need additional information, please do not hesitate to call me at 713-366-5044.

Sincerely,

Sharon L. Haggard, P.E.
Engineering Advisor

attachments

Correct Version

Disregard
All others
RE7

STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 12722
ORDER NO. R-6199-B

APPLICATION OF OCCIDENTAL PERMIAN LIMITED PARTNERSHIP TO
AMEND DIVISION ORDER NO. R-6199 CONCERNING THE EXPANSION OF
ITS NORTH HOBBS GRAYBURG SAN ANDRES UNIT PRESSURE
MAINTENANCE PROJECT, AND TO QUALIFY THE PROJECT FOR THE
RECOVERED OIL TAX RATE PURSUANT TO THE ENHANCED OIL
RECOVERY ACT, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on September 6, 2001, at Santa Fe, New Mexico, before Examiner David R. Catanach. This case was subsequently reopened on the record at the October 18, 2001 hearing before Examiner David R. Catanach, to allow the applicant to present additional evidence.

NOW, on this 22nd day of October, 2001, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

FINDS THAT:

(1) Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.

(2) By Division Order No. R-6198 entered in Case No. 6652 on November 30, 1979, the Division, upon application of Shell Oil Company, approved the North Hobbs Grayburg San Andres Unit comprising 10,649.53 acres, more or less, described as follows in Lea County, New Mexico:

TOWNSHIP 18 SOUTH, RANGE 37 EAST, NMPM

Section 13:	SE/4, W/2
Section 14:	All
Sections 23 through 25:	All

Case No. 12722
 Order No. R-6199-B
 Page 2

Section 26: E/2 NE/4, NW/4 NE/4
 Section 36 : E/2 NW/4, E/2

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM

Section 17: S/2 NW/4, SW/4
 Section 18: NE/4, S/2
 Sections 19 and 20: All
 Section 21: SW/4, S/2 SE/4, NW/4 SE/4
 Sections 27 through 32: All
 Section 33: W/2, NE/4, W/2 SE/4, NE/4 SE/4
 Section 34: E/2 NW/4, E/2

(3) By Order No. R-6199 entered in Case No. 6653 on November 30, 1979, the Division authorized Shell Oil Company to institute a pressure maintenance project within its North Hobbs Grayburg San Andres Unit by the injection of water into the Grayburg and San Andres formations, Hobbs Grayburg-San Andres Pool, through 70 initial injection wells.

(4) The applicant, Occidental Permian Limited Partnership ("Oxy"), the current operator of the North Hobbs Grayburg San Andres Unit, seeks to amend Division Order No. R-6199 to authorize the implementation of a carbon dioxide (CO₂) tertiary recovery injection project within a portion of the North Hobbs Grayburg San Andres Unit, generally described as follows and hereinafter referred to as the "Phase I Area":

TOWNSHIP 18 SOUTH, RANGE 37 EAST, NMPM

Section 13: SW/4, S/2 NW/4, S/2 SE/4
 Section 14: SE/4, S/2 NE/4
 Section 23: E/2
 Section 24: All
 Section 25: N/2, SE/4
 Section 36: NE/4

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM

Section 18: S/2
 Section 19: All
 Section 20: W/2, SE/4
 Section 28: SW/4, S/2 NW/4
 Sections 29 and 30: All
 Section 31: N/2
 Section 32: N/2, N/2 S/2

Case No. 12722
Order No. R-6199-B
Page 3

Section 33:

NW/4

(5) Oxy further seeks:

- (a) authorization to convert an additional 60 wells to injection wells within the Phase I Area. These wells will be either new drills or conversions of existing wells;
- (b) authorization to inject CO₂ and produced water into certain injection wells within the Phase I Area, and authorization to inject CO₂, produced water, and produced gases including methane, natural gas liquids and hydrogen sulfide within certain injection wells within the Phase I Area;
- (c) to establish maximum surface injection pressure limitations for all injection wells within the Phase I Area as follows:
 - 1100 psig for injection of water;
 - 1250 psig for injection of CO₂;
 - 1770 psig for injection of produced gas; and
- (d) to increase the limiting gas-oil ratio to 6,000 cubic feet of gas per barrel of oil.

(6) Oxy further seeks to qualify the proposed tertiary recovery project as an "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5).

(7) Oxy presented evidence that demonstrates:

- (a) the North Hobbs Grayburg San Andres Unit is currently undergoing secondary recovery waterflood operations that commenced in 1979;
- (b) pre-unitization primary oil recovery from the unit area was 160 million barrels of oil. Under waterflood operations, an additional 115 million barrels of oil will be recovered;

Case No. 12722
Order No. R-6199-B
Page 4

- (c) current production from the North Hobbs Grayburg San Andres Unit is 6,100 barrels of oil and 226,000 barrels of water per day from 144 active producing wells; and
- (d) total oil production from the unit as of January, 2001, has been 231 million barrels of oil.

(8) According to evidence presented by Oxy, its plan of operation within the proposed tertiary recovery injection project includes:

- (a) utilizing water-alternating-gas (WAG) injection by injecting alternating slugs of pure CO₂ and produced water within the eastern half of the Phase I Area;
- (b) utilizing water-alternating-gas (WAG) injection by injecting slugs of produced gas and CO₂ with alternating slugs of water within the western half of the Phase I Area;
- (c) utilizing a 160-acre nine-spot injection pattern for those producing intervals identified as San Andres Zones No. 1 & 2, and utilizing a five-spot injection pattern for that producing interval identified as the San Andres Zone No. 3; and
- (d) utilizing approximately 103 wells for injection within the Phase I Area.

(9) Oxy testified that implementing tertiary recovery operations within the Phase I Area of the North Hobbs Grayburg San Andres Unit should result in the recovery of an additional 76 million barrels of oil that may otherwise not be recovered, thereby preventing waste.

(10) Project costs are estimated to be \$510 million. This amount is detailed as follows:

Initial construction:	\$130 million
CO ₂ purchase:	\$190 million
Well and surface operating expenses:	\$ 77 million
Additional lifting expenses:	\$ 22 million

Case No. 12722
Order No. R-6199-B
Page 5

Chemicals:	\$ 27 million
Gas reinjection expenses:	\$ 64 million

(11) Implementation of the proposed tertiary recovery injection project will extend the life of the Hobbs Grayburg-San Andres Pool by more than 20 years.

(12) Oxy further offered testimony that CO₂ injection operations may be expanded in the future to include additional areas within the North Hobbs Grayburg San Andres Unit.

(13) The evidence and testimony presented in this case demonstrates that it is prudent to implement tertiary recovery operations within the Phase I Area of the North Hobbs Grayburg San Andres Unit, and that implementing this project will result in the recovery of additional oil and gas from the project area that may otherwise not be recovered, thereby preventing waste.

(14) The proposed tertiary recovery project should be approved.

(15) The evidence presented demonstrates that:

- (a) the application for approval of the proposed tertiary recovery project has not been prematurely filed either for economic or technical reasons;
- (b) the area affected by the proposed project has been so depleted by primary and previous enhanced recovery operations that it is prudent to apply tertiary recovery techniques to maximize the ultimate recovery of crude oil from the pool; and
- (c) the proposed tertiary recovery project meets all the criteria for certification by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5).

(16) The approved project area should initially comprise the Phase I Area of the North Hobbs Grayburg San Andres Unit, as identified in Finding No. (4); provided however, the "project area" and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted and reduced based upon the evidence presented by the applicant in its demonstration of a positive production response.

Case No. 12722
Order No. R-6199-B
Page 6

(17) To be eligible for the EOR tax rate, the operator should advise the Division of the date CO₂ injection commences within the tertiary recovery project. At that time, the Division will certify the project to the New Mexico Taxation and Revenue Department.

(18) At such time as a positive production response occurs, and within seven years from the date the project was certified to the New Mexico Taxation and Revenue Department, the applicant must apply to the Division for certification of a positive production response. This application shall identify the area benefiting from enhanced oil recovery operations and the specific wells eligible for the EOR tax rate. The Division may review the application administratively or set it for hearing. Based upon the evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those wells that are eligible for the EOR tax rate.

(19) Oxy testified that hydrogen sulfide gas (H₂S) will be an injected fluid within the western half of the Phase I Area. Oxy further testified that it has presented its H₂S safety plan to the Bureau Chief of the Division's Environmental Bureau, and that this plan has been determined to be acceptable by the Division.

(20) The evidence presented by Oxy further demonstrates that the proposed gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil is necessary to effectively implement the proposed tertiary recovery injection project.

(21) The proposed gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil should be approved only for that portion of the Hobbs Grayburg-San Andres Pool contained within the North Hobbs Grayburg San Andres Unit.

(22) Oxy proposes to utilize 103 injection wells within the Phase I Area of the North Hobbs Grayburg San Andres Unit. Of these 103 wells, forty-three (43) are active injection wells that have previously been permitted for injection, twenty-four (24) are new wells that will be drilled for injection, and thirty-six (36) are either existing producing wells, temporarily abandoned producing wells or temporarily abandoned injection wells.

(23) At this time, Oxy proposes to permit 60 wells for injection within the proposed tertiary recovery injection project.

(24) The evidence presented demonstrates that several of the 36 existing wells that Oxy proposes to permit for injection have previously been granted Division approval to inject within the North Hobbs Grayburg San Andres Unit; however, the evidence

Case No. 12722
Order No. R-6199-B
Page 7

presented by Oxy is insufficient to determine whether the injection authority for these wells is still valid.

(25) All of the 36 existing wells should be permitted for injection, and that portion of any Division order that previously granted injection authority for any of these wells should be superseded by this order.

(26) Prior to commencing injection operations into the North Hobbs Grayburg San Andres Unit No. 311 located 1309 feet from the North line and 2310 feet from the East line (Unit B) of Section 19, Township 18 South, Range 38 East, NMPM, Oxy should perform remedial cement operations on the production liner in a manner prescribed by the supervisor of the Division's Hobbs District Office in order to assure that this well will not serve as a conduit for injected fluid to migrate from the proposed injection interval.

(27) The evidence presented demonstrates that there is a well located within the ½-mile area of review that may not be either temporarily abandoned or plugged and abandoned so as to confine the injected fluid to the proposed injection interval. Oxy should not be authorized to inject into any of its injection wells that are located within ½ mile of the Conoco Inc. North Hobbs Unit No. 1 (API No. 30-025-05449) located 660 feet from the North and West lines (Unit D) of Section 13, Township 18 South, Range 37 East, NMPM, until such time as Conoco Inc. complies with a Division directive to bring the well into compliance, either by properly temporarily abandoning the well or permanently plugging and abandoning the well.

(28) The operator should take all steps necessary to ensure that the injected fluids enter only the proposed injection interval and are not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(29) Injection should be accomplished through 2 7/8 inch or 3 1/2 inch internally fiberglass-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation in each well. The casing-tubing annulus should be filled with an inert fluid and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(30) The injection wells or pressurization system should be equipped with a pressure control device or acceptable substitute that will limit the surface injection pressure to:

1100 psig for injection of water;
1250 psig for injection of CO₂; and
1770 psig for injection of produced gas.

Case No. 12722
Order No. R-6199-B
Page 8

(31) Prior to commencing injection operations, the casing in each of the injection wells within the Phase I Area should be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(32) The operator should give advance notice to the supervisor of the Division's Hobbs District Office of the date and time (i) injection equipment will be installed, (ii) the mechanical integrity pressure tests will be conducted on the proposed injection wells, and (iii) remedial cement work will be conducted on the North Hobbs Grayburg San Andres Unit No. 311, so that these operations may be witnessed.

(33) The operator should immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing, casing or packer in any of the injection wells, or the leakage of water, oil or gas from or around any producing or plugged and abandoned well within the project area, and should promptly take all necessary steps to correct such failure or leakage.

(34) The proposed tertiary recovery project should be approved and the project should be governed by Division Rules No. 701 through 708.

(35) The injection authority granted herein for the wells shown on Exhibits "A" and "B" should terminate eighteen months after the date of this order if the operator has not commenced tertiary injection operations into the Phase I Area of the North Hobbs Grayburg San Andres Unit; provided, however, the Division, upon written request by the operator, may grant an extension for good cause.

(36) For any injection well shown on Exhibit "A" or "B" in which injection operations begin more than thirty-six months after the date of this order, the operator should submit to the Division either: (i) a statement certifying that there have been no changes in the information furnished in support of the subject application concerning the status or construction of any well that penetrates the injection interval within the ½-mile area of review around the injection well; or (ii) a statement describing any changes in the status or construction of any well that penetrates the injection interval within the ½-mile area of review. This statement should be submitted to the Division's Santa Fe office within the period no more than twelve months and no less than sixty days before injection operations commence in the well.

IT IS THEREFORE ORDERED THAT:

(1) Division Order No. R-6199, issued in Case No. 6653 on November 30, 1979, is hereby amended to allow Occidental Permian Limited Partnership to implement

Case No. 12722
Order No. R-6199-B
Page 9

a tertiary recovery injection project within the Phase I Area, being a portion of the North Hobbs Grayburg San Andres Unit, described below, by the injection of CO₂, water and produced gas into the Grayburg and/or San Andres formations, Hobbs Grayburg-San Andres Pool, through the 60 wells shown on Exhibits "A" and "B" attached to this order, and through an additional 43 wells that have previously been approved for injection within the North Hobbs Grayburg San Andres Unit Pressure Maintenance Project:

TOWNSHIP 18 SOUTH, RANGE 37 EAST, NMPM

Section 13:	SW4, S/2 NW/4, S/2 SE/4
Section 14:	SE/4, S/2 NE/4
Section 23:	E/2
Section 24:	All
Section 25:	N/2, SE/4
Section 36:	NE/4



TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM

Section 18:	S/2
Section 19:	All
Section 20:	W/2, SE/4
Section 28:	SW/4, S/2 NW/4
Sections 29 and 30:	All
Section 31:	N/2
Section 32:	N/2, N/2 S/2
Section 33:	NW/4

(2) The operator shall take all necessary steps to ensure that the injected fluid enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(3) Injection shall be accomplished through 2 7/8 inch or 3 1/2 inch internally fiberglass-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation in each well. The casing-tubing annulus shall be filled with an inert fluid and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(4) The injection wells or pressurization system within the Phase I Area shall be equipped with a pressure control device or acceptable substitute that will limit the surface injection pressure to no more than:

Case No. 12722
Order No. R-6199-B
Page 10

1100 psig for injection of water;
1250 psig for injection of CO₂; and
1770 psig for injection of produced gas.

(5) The Division Director may administratively authorize an increase in surface injection pressure upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(6) Prior to commencing injection operations, the casing in each of the injection wells within the Phase I Area shall be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(7) Prior to commencing injection operations into the North Hobbs Grayburg San Andres Unit No. 311 located 1309 feet from the North line and 2310 feet from the East line (Unit B) of Section 19, Township 18 South, Range 38 East, NMPM, Oxy shall perform remedial cement operations on the production liner in a manner prescribed by the supervisor of the Division's Hobbs District Office in order to assure that this well will not serve as a conduit for injected fluid to migrate from the proposed injection interval.

(8) Oxy shall not commence injection into any of its injection wells that are located within ½ mile of the Conoco Inc. North Hobbs Unit No. 1 (API No. 30-025-05449) located 660 feet from the North and West lines (Unit D) of Section 13, Township 18 South, Range 37 East, NMPM, until such time as Conoco Inc. complies with a Division directive to bring the well into compliance, either by properly temporarily abandoning the well or permanently plugging and abandoning the well.

(9) The operator shall give advance notice to the supervisor of the Division's Hobbs District Office of the date and time (i) injection equipment will be installed, (ii) the mechanical integrity pressure tests will be conducted, and (iii) remedial work will be conducted on the North Hobbs Grayburg San Andres Unit No. 311, so that these operations may be witnessed.

(10) The operator shall immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing, casing or packer in any of the injection wells, or the leakage of water, oil or gas from or around any producing or plugged and abandoned well within the project area, and shall promptly take all steps necessary to correct such failure or leakage.

(11) The project is hereby designated the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project, and the applicant shall conduct injection

Case No. 12722
Order No. R-6199-B
Page 11

operations in accordance with Division Rules No. 701 through 708, and shall submit monthly progress reports in accordance with Division Rules No. 706 and 1115.

(12) The North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project is hereby certified as an "Enhanced Oil Recovery Project." The project area shall initially comprise the Phase I Area, described in Ordering Paragraph No. (1), provided however, the project area and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted and reduced based upon the evidence presented by the applicant in its demonstration of a positive production response.

(13) To be eligible for the EOR tax rate, the operator shall advise the Division of the date and time CO₂ injection commences within the tertiary recovery project. At that time, the Division will certify the project to the New Mexico Taxation and Revenue Department.

✓ (14) At such time as a positive production response occurs, and within seven years from the date the project was certified to the New Mexico Taxation and Revenue Department, the applicant must apply to the Division for certification of a positive production response. This application shall identify the area benefiting from enhanced oil recovery operations and the specific wells eligible for the EOR tax rate. The Division may review the application administratively or set it for hearing. Based upon the evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those wells that are eligible for the EOR tax rate. ✓

(15) The injection authority granted herein for the wells shown on Exhibits "A" and "B" shall terminate eighteen months after the date of this order if the operator has not commenced tertiary injection operations into the Phase I Area of the North Hobbs Grayburg San Andres Unit; provided, however, the Division, upon written request by the operator, may grant an extension for good cause.

(16) For any injection well shown on Exhibit "A" or "B" in which injection operations begin more than thirty-six months after the date of this order, the operator shall submit to the Division either: (i) a statement certifying that there have been no changes in the information furnished in support of the subject application concerning the status or construction of any well that penetrates the injection interval within the ½-mile area of review around the injection well; or (ii) a statement describing any changes in the status or construction of any well that penetrates the injection interval within the ½-mile area of review. This statement shall be submitted to the Division's Santa Fe office within the period no more than twelve months and no less than sixty days before injection operations commence in the well.

Case No. 12722
Order No. R-6199-B
Page 12

(17) The limiting gas-oil ratio for that portion of the Hobbs Grayburg San Andres Pool contained within the North Hobbs Grayburg San Andres Unit is hereby established at 6,000 cubic feet of gas per barrel of oil.

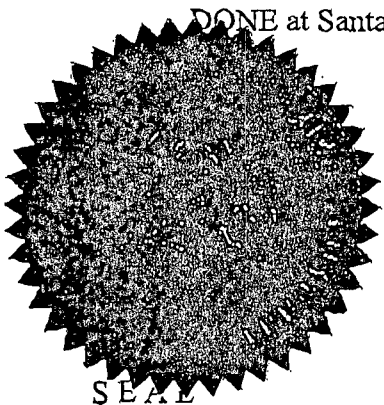
(18) In addition to those wells shown on Exhibits "A" and "B" that are authorized to inject CO₂, water and produced gases, the following-described previously permitted injection wells are also authorized to inject all of these fluids:

<u>Well Name & Number</u>	<u>Well Location</u>
NHGSAU No. 112	Unit D, Section 19, T-18S, R-38E
NHGSAU No. 142	Unit M, Section 19, T-18S, R-38E
NHGSAU No. 231	Unit K, Section 19, T-18S, R-38E
NHGSAU No. 212	Unit C, Section 24, T-18S, R-37E
NHGSAU No. 413	Unit A, Section 24, T-18S, R-37E
NHGSAU No. 432	Unit H, Section 24, T-18S, R-37E
NHGSAU No. 442	Unit P, Section 24, T-18S, R-37E
NHGSAU No. 422	Unit H, Section 25, T-18S, R-37E
NHGSAU No. 112	Unit D, Section 30, T-18S, R-38E
NHGSAU No. 222	Unit F, Section 30, T-18S, R-38E
NHGSAU No. 232	Unit K, Section 30, T-18S, R-38E
NHGSAU No. 233	Unit K, Section 30, T-18S, R-38E
NHGSAU No. 333	Unit J, Section 30, T-18S, R-38E

The 30 other previously permitted injection wells are authorized to inject CO₂ and water only.

(19) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Lori Wrotenberg
LORI WROTENBERY
Director

Exhibit "A"
Division Order No. R-6199-B
North Hobbs Grayburg San Andres Unit Tertiary Recovery Project
Approved Injection Wells (New Wells To Be Drilled)

Well Name & Number	API Number	Well Location	Injection Interval	Packer Depth
NHGBSAU No. 118 **	N/A	Footage Undetermined, Unit J or P, Section 18, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 118 **	N/A	Footage Undetermined, Unit L or N, Section 18, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 118 **	N/A	Footage Undetermined, Unit M or N, Section 18, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 112 **	N/A	Footage Undetermined, Unit D, Section 19, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 142 **	N/A	Footage Undetermined, Unit N, Section 19, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 120	N/A	Footage Undetermined, Unit D or F, Section 20, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 312 **	N/A	Footage Undetermined, Unit B, Section 24, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 331 **	N/A	Footage Undetermined, Unit J, Section 24, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 124 **	N/A	Footage Undetermined, Unit G, Section 24, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 124 **	N/A	Footage Undetermined, Unit F, Section 24, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 125 **	N/A	Footage Undetermined, Unit A or B, Section 25, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 323	N/A	Footage Undetermined, Unit G, Section 29, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 342	N/A	Footage Undetermined, Unit O, Section 29, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 442	N/A	Footage Undetermined, Unit P, Section 29, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 129	N/A	Footage Undetermined, Unit E, Section 29, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 222 **	N/A	Footage Undetermined, Unit F, Section 30, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 422	N/A	Footage Undetermined, Unit H, Section 30, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 442	N/A	Footage Undetermined, Unit P, Section 30, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 312	N/A	Footage Undetermined, Unit B, Section 31, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 222	N/A	Footage Undetermined, Unit F, Section 32, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 323	N/A	Footage Undetermined, Unit G, Section 32, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 331	N/A	2310' FSL & 2310' FEL, Unit J, Section 32, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 431	N/A	Footage Undetermined, Unit I, Section 20, T-18S, R-38E	4,000'-4,500'	3,900'
NHGBSAU No. 342	N/A	Footage Undetermined, Unit O, Section 30, T-18S, R-38E	4,000'-4,500'	3,900'

**** Denotes wells that are authorized to inject CO₂, water, and produced gas.
All other wells are authorized to inject CO₂ and water only.**

Exhibit "B"
Division Order No. R-6199-B
North Hobbs Grayburg San Andres Unit Tertiary Recovery Project
Approved Injection Wells (Existing Wells)

Well Name & Number	API Number	Well Location	Injection Interval	Packer Depth
NHGBSAU No. 341 **	30-025-05446	660' FSL & 1980' FEL, Unit O, Section 13, T-18S, R-37E	4,000'-4,263'	3,900'
NHGBSAU No. 441 **	30-025-12732	330' FSL & 330' FEL, Unit P, Section 13, T-18S, R-37E	4,000'-4,258'	3,900'
NHGBSAU No. 232 **	30-025-29172	2501' FSL & 1410' FWL, Unit K, Section 19, T-18S, R-38E	4,000'-4,420'	3,900'
NHGBSAU No. 141 **	30-025-05485	1315' FSL & 1315' FWL, Unit M, Section 24, T-18S, R-37E	4,000'-4,270'	3,900'
NHGBSAU No. 331 **	30-025-05488	1320' FSL & 1325' FEL, Unit J, Section 24, T-18S, R-37E	4,000'-4,210'	3,900'
NHGBSAU No. 411 **	30-025-23522	990' FNL & 990' FEL, Unit A, Section 24, T-18S, R-37E	4,000'-4,283'	3,900'
NHGBSAU No. 414 **	30-025-28879	10' FNL & 1280' FEL, Unit A, Section 24, T-18S, R-37E	4,000'-4,370'	3,900'
NHGBSAU No. 431 **	30-025-05487	2310' FSL & 330' FEL, Unit I, Section 24, T-18S, R-37E	4,000'-4,300'	3,900'
NHGBSAU No. 411 **	30-025-05503	330' FNL & 330' FEL, Unit A, Section 25, T-18S, R-37E	4,000'-4,239'	3,900'
NHGBSAU No. 242	30-025-28413	100' FSL & 1400' FWL, Unit N, Section 29, T-18S, R-38E	4,000'-4,370'	3,900'
NHGBSAU No. 321	30-025-07431	2310' FNL & 1650' FEL, Unit G, Section 29, T-18S, R-38E	4,000'-4,309'	3,900'
NHGBSAU No. 113 **	30-025-29064	1310' FNL & 195' FWL, Unit D, Section 30, T-18S, R-38E	4,000'-4,370'	3,900'
NHGBSAU No. 312	30-025-29197	530' FNL & 1448' FEL, Unit B, Section 30, T-18S, R-38E	4,000'-4,431'	3,900'
NHGBSAU No. 331	30-025-07472	2335' FSL & 2310' FEL, Unit J, Section 30, T-18S, R-38E	4,000'-4,238'	3,900'
NHGBSAU No. 444	30-025-28959	215' FSL & 1255' FEL, Unit P, Section 30, T-18S, R-38E	4,000'-4,370'	3,900'
NHGBSAU No. 131	30-025-07527	2310' FSL & 330' FWL, Unit L, Section 32, T-18S, R-38E	4,000'-4,250'	3,900'
NHGBSAU No. 422	30-025-29074	1385' FNL & 110' FEL, Unit H, Section 32, T-18S, R-38E	4,000'-4,370'	3,900'
NHGBSAU No. 111	30-025-12505	330' FNL & 330' FWL, Unit D, Section 33, T-18S, R-38E	4,000'-4,237'	3,900'
NHGBSAU No. 141 **	30-025-05437	660' FSL & 660' FWL, Unit M, Section 13, T-18S, R-37E	4,000'-4,235'	3,900'
NHGBSAU No. 221 **	30-025-05439	1980' FNL & 1980' FWL, Unit F, Section 13, T-18S, R-37E	4,000'-4,160'	3,900'
NHGBSAU No. 321 **	30-025-05457	2310' FNL & 1650' FEL, Unit G, Section 14, T-18S, R-37E	4,000'-4,350'	3,900'
NHGBSAU No. 121 **	30-025-05502	1650' FNL & 990' FWL, Unit E, Section 25, T-18S, R-37E	4,000'-4,261'	3,900'
NHGBSAU No. 341 **	30-025-05497	660' FSL & 1650' FEL, Unit O, Section 25, T-18S, R-37E	4,000'-4,220'	3,900'
NHGBSAU No. 411	30-025-07454	990' FNL & 990' FEL, Unit A, Section 29, T-18S, R-38E	4,000'-4,335'	3,900'
NHGBSAU No. 321 **	30-025-05540	1650' FNL & 1650' FEL, Unit G, Section 36, T-18S, R-37E	4,000'-4,300'	3,900'
NHGBSAU No. 121 **	30-025-05440	1980' FNL & 660' FWL, Unit E, Section 13, T-18S, R-37E	4,000'-4,235'	3,900'
NHGBSAU No. 241 **	30-025-05436	660' FSL & 1980' FWL, Unit N, Section 13, T-18S, R-37E	4,000'-4,320'	3,900'
NHGBSAU No. 341 **	30-025-05450	660' FSL & 1650' FEL, Unit O, Section 14, T-18S, R-37E	4,000'-4,350'	3,900'
NHGBSAU No. 342 **	30-025-07342	330' FSL & 2310' FEL, Unit O, Section 18, T-18S, R-38E	4,000'-4,286'	3,900'
NHGBSAU No. 311 **	30-025-07369	1309' FNL & 2310' FEL, Unit B, Section 19, T-18S, R-38E	4,000'-4,296'	3,900'
NHGBSAU No. 411 **	30-025-07370	1300' FNL & 1300' FEL, Unit A, Section 19, T-18S, R-38E	4,000'-4,342'	3,900'
NHGBSAU No. 233	30-025-27214	1610' FSL & 1850' FWL, Unit K, Section 20, T-18S, R-38E	4,000'-4,510'	3,900'
NHGBSAU No. 321 **	30-025-05463	1650' FNL & 1650' FEL, Unit G, Section 23, T-18S, R-37E	4,000'-4,265'	3,900'
NHGBSAU No. 341 **	30-025-05475	990' FSL & 1650' FEL, Unit O, Section 23, T-18S, R-37E	4,000'-4,302'	3,900'
NHGBSAU No. 121 **	30-025-05476	1650' FNL & 990' FWL, Unit E, Section 24, T-18S, R-37E	4,000'-4,319'	3,900'
NHGBSAU No. 121 **	30-025-07514	1980' FNL & 990' FWL, Unit E, Section 31, T-18S, R-38E	4,000'-4,300'	3,900'

**** Denotes wells that are authorized to inject CO₂, water and produced gas.
 All other wells are authorized to inject CO₂ and water only.**

36 units ✓

NORTH HOBBS GRAYBURG-SAN ANDRES UNIT
OCTOBER 22, 2001
EOR PROJECT R-6199-B
JANUARY 1996 - AUGUST 2008

Month/Yr	Actual		Water Production BWPd	Water		HCG+Gas Production MCFD	HCG+Gas		Water Injection BWPd	Water		CO2 Injection MCFD	CO2		Number Producing Wells	Number	
	Oil Rate BOPD	Rate Monthly		Production Monthly	Production Monthly		Injection Monthly	Injection Monthly		Injection Monthly	Injection Monthly		Water Only Wells	WAG CO2 Injection Wells			
Jan-96	3318	102850	83335	2583377	5672	175831	82275	2550511	0	0	0	0	0	119	47	0	
Feb-96	3527	98757	92263	2583377	6119	171344	87002	2436051	0	0	0	0	0	119	45	0	
Mar-96	3294	102122	82199	2548162	5706	176886	75819	2350378	0	0	0	0	0	123	47	0	
Apr-96	3156	94689	78408	2352231	5315	159441	69103	2073100	0	0	0	0	0	120	46	0	
May-96	3188	98817	80555	2497192	5432	168406	36410	1128704	0	0	0	0	0	119	16	0	
Jun-96	3141	94222	79355	2380640	4989	149663	77926	2337791	0	0	0	0	0	118	47	0	
Jul-96	3006	93180	74317	2303832	5120	158731	79694	2470528	0	0	0	0	0	118	47	0	
Aug-96	3148	97590	80944	2509271	4417	136919	84890	2631576	0	0	0	0	0	116	47	0	
Sep-96	3153	94583	80838	2425127	4645	139349	77958	2338732	0	0	0	0	0	116	47	0	
Oct-96	3175	98424	81466	2525442	4658	144393	78985	2448538	0	0	0	0	0	118	45	0	
Nov-96	3154	94626	82389	2471664	4300	128998	80380	2411385	0	0	0	0	0	116	47	0	
Dec-96	3059	94824	82015	2542478	4571	141691	81428	2524272	0	0	0	0	0	116	47	0	
Jan-97	3106	96283	85333	2645312	4527	140327	80790	2504483	0	0	0	0	0	117	47	0	
Feb-97	2841	79549	87414	2447598	4500	125986	85096	2382679	0	0	0	0	0	117	47	0	
Mar-97	3093	95892	86695	2687541	4739	146919	84498	2619438	0	0	0	0	0	117	45	0	
Apr-97	3148	94454	89391	2681716	4470	134106	86568	2597036	0	0	0	0	0	117	46	0	
May-97	3092	95841	91311	2830648	4318	133843	81580	2528976	0	0	0	0	0	116	44	0	
Jun-97	3217	96506	86394	2591822	5068	152039	81594	2447812	0	0	0	0	0	114	44	0	
Jul-97	3102	96147	86776	2690057	4474	138682	85293	2644083	0	0	0	0	0	114	44	0	
Aug-97	3232	100197	86520	2682127	4643	143938	83178	2578514	0	0	0	0	0	114	47	0	
Sep-97	3158	94753	85943	2578297	4562	136869	84690	2540700	0	0	0	0	0	112	44	0	
Oct-97	3196	99085	86025	2666764	4607	142831	86910	2694224	0	0	0	0	0	112	44	0	
Nov-97	3139	94158	86086	2582571	4389	131679	86316	2589476	0	0	0	0	0	112	44	0	
Dec-97	3091	95823	83616	2592107	4258	132013	78637	2437740	0	0	0	0	0	113	44	0	
Jan-98	3218	99765	88090	2730788	4529	140401	87234	2704240	0	0	0	0	0	114	44	0	
Feb-98	3258	91220	87881	2460665	4779	133825	90654	2538308	0	0	0	0	0	113	44	0	
Mar-98	3239	100394	89253	2766857	4786	148353	87457	2711159	0	0	0	0	0	112	44	0	
Apr-98	3434	103006	93063	2791894	4667	140019	96684	2900520	0	0	0	0	0	113	45	0	
May-98	3223	99904	92627	2871437	4718	146258	93188	2888826	0	0	0	0	0	105	45	0	
Jun-98	2995	89851	98058	2941729	4042	121262	84625	2538740	0	0	0	0	0	108	44	0	
Jul-98	3266	101239	100911	3128237	4093	126874	90128	2793970	0	0	0	0	0	112	45	0	

NORTH HOBBS GRAYBURG-SAN ANDRES UNIT
OCTOBER 22, 2001
FOR PROJECT R-6199-B
JANUARY 1996 - AUGUST 2008

Month/Yr	Actual		Water Production BWPD	Water Production Monthly		HCG+Gas Production MCFD	HCG+Gas Production Monthly		Water Injection BWPD	Water Injection Monthly	CO2 Injection MCFD	CO2 Injection Monthly	Number Producing Wells	Number	
	Oil Rate BOPD	Rate Monthly		Production Monthly	Production Monthly		Injection Monthly	Injection Monthly						Water Only Wells	WAG CO2 Injection Wells
Aug-98	3337	103455	102022	3162685	4860	150661	101568	3148623	0	0	0	106	44	0	
Sep-98	3247	97418	103122	3093669	5055	151656	100956	3028666	0	0	0	106	44	0	
Oct-98	3274	101488	97547	3023970	4813	149193	94428	2927269	0	0	0	104	46	0	
Nov-98	3201	96021	94855	2845658	4659	139777	96648	2899434	0	0	0	94	46	0	
Dec-98	3167	98177	92103	2855197	3368	104408	96868	3002912	0	0	0	103	46	0	
Jan-99	3120	96735	93753	2906342	4247	131667	87159	2701930	0	0	0	103	42	0	
Feb-99	3033	84911	93002	2604063	4218	118103	104298	2920357	0	0	0	104	46	0	
Mar-99	3245	100597	98186	3043772	4372	135523	102194	3168000	0	0	0	103	46	0	
Apr-99	3096	92874	97535	2926058	4335	130057	102199	3065961	0	0	0	100	45	0	
May-99	3214	99645	97983	3037464	4181	129608	107491	3332207	0	0	0	103	45	0	
Jun-99	3148	94428	98212	2946363	4543	136288	106586	3197577	0	0	0	105	45	0	
Jul-99	3042	94291	98774	3061985	4699	145655	104529	3240399	0	0	0	106	45	0	
Aug-99	3052	94605	101232	3138179	4626	143398	109432	3392391	0	0	0	106	45	0	
Sep-99	3065	91937	103093	3092804	4295	128855	105539	3166158	0	0	0	108	45	0	
Oct-99	3160	97960	104860	3250653	4540	140744	107456	3331133	0	0	0	108	45	0	
Nov-99	3145	94339	103663	3109895	4527	135812	110731	3321924	0	0	0	108	45	0	
Dec-99	3024	93744	101799	3155762	3568	110600	110459	3424243	0	0	0	108	45	0	
Jan-00	3145	97498	103249	3200720	4152	128701	109781	3403226	0	0	0	102	47	0	
Feb-00	3386	94820	105267	2947484	4252	119055	109138	3055850	0	0	0	104	48	0	
Mar-00	3384	104913	109799	3403756	4119	127696	107473	3331668	0	0	0	104	49	0	
Apr-00	3640	109210	133251	3997516	4579	137373	137950	4138490	0	0	0	109	55	0	
May-00	3853	119446	134591	4172319	5108	158347	135948	4214398	0	0	0	113	55	0	
Jun-00	3893	116800	141907	4257222	4927	147810	149843	4495276	0	0	0	113	55	0	
Jul-00	3840	119040	143326	4443106	4834	149846	143052	4434597	0	0	0	113	57	0	
Aug-00	3661	113496	149537	4635655	4699	145670	153175	4748425	0	0	0	114	58	0	
Sep-00	3499	104978	147917	4437519	4687	140598	141252	4237569	0	0	0	105	60	0	
Oct-00	3671	113801	153990	4773704	4392	136165	151024	4681749	0	0	0	107	62	0	
Nov-00	3746	112368	154591	4637731	4404	132112	146824	4404730	0	0	0	105	62	0	
Dec-00	3612	111964	150066	4652034	4262	132136	149909	4647192	0	0	0	101	61	0	
Jan-01	3400	105411	147264	4565173	4066	126048	155452	4819014	0	0	0	99	62	0	
Feb-01	3502	98046	149509	4186244	4213	117955	152436	4268207	0	0	0	99	63	0	

NORTH HOBBS GRAYBURG-SAN ANDRES UNIT
OCTOBER 22, 2001
EOR PROJECT R-6199-B
JANUARY 1996 - AUGUST 2008

Month/Yr	Actual Oil Rate BOPD	Actual Oil Rate Monthly	Water Production BWPD	Water Production Monthly	HCG+Gas Production MCFD	HCG+Gas Production Monthly	Water Injection BWPD	Water Injection Monthly	CO2 Injection MCFD	CO2 Injection Monthly	Number Producing Wells	Number	
												Water Only	WAG CO2
Mar-01	3520	109128	152120	4715726	3949	122427	153407	4755620	0	0	98	64	0
Apr-01	3553	106593	156676	4700273	3924	117713	161297	4838902	0	0	101	65	0
May-01	3633	112631	165270	5123366	4431	137351	173202	5369247	0	0	105	64	0
Jun-01	3810	114287	165753	4972580	3522	105667	173380	5201400	0	0	106	64	0
Jul-01	3870	119961	174948	5423402	4758	147510	181662	5631517	0	0	105	64	0
Aug-01	3790	117479	175228	5432082	5098	158032	182976	5672253	0	0	105	65	0
Sep-01	3678	110342	169249	5077460	5329	159884	176638	5299151	0	0	105	66	0
Oct-01	3799	117777	171483	5315966	5278	163618	179317	5558814	0	0	105	66	0
Nov-01	3554	106631	169919	5097555	6251	187523	178948	5368427	0	0	105	65	0
Dec-01	3621	112266	169288	5247920	6341	196561	176178	5461506	0	0	105	65	0
Jan-02	3609	111883	176052	5457606	6483	200988	180322	5589971	0	0	105	66	0
Feb-02	3531	98874	171721	4808184	6357	177992	184154	5156311	0	0	105	65	0
Mar-02	3470	107557	172175	5337440	6128	189966	182852	5668414	0	0	105	66	0
Apr-02	3452	103564	171344	5140329	5691	170718	178654	5359629	0	0	104	65	0
May-02	3421	106058	172680	5353072	5900	182912	181412	5623768	0	0	103	63	0
Jun-02	3446	103378	171112	5133369	5449	163462	177932	5337947	0	0	103	59	0
Jul-02	3449	106907	169578	5256911	5347	165768	174540	5410739	0	0	103	59	0
Aug-02	3384	104889	169818	5264367	5290	164004	173360	5374169	0	0	103	59	0
Sep-02	3321	99621	170156	5104678	5764	172913	174579	5237357	0	0	103	63	0
Oct-02	3275	101518	166513	5161897	5687	176306	169379	5250756	0	0	103	62	0
Nov-02	3330	99891	168487	5054611	5858	175735	172262	5167854	0	0	104	62	0
Dec-02	3252	100802	168542	5224811	5618	174146	173472	5377643	0	0	104	60	0
Jan-03	3356	104025	168637	5227743	5801	179820	175294	5434109	0	0	104	62	0
Feb-03	3461	<u>96914</u>	170396	4771096	5976	167333	176413	4939559	0	0	104	64	0
Mar-03	3336	103404	168182	5213637	5695	176543	175227	5432027	1284	39793	105	64	1
Apr-03	3306	99191	174825	5244743	5515	165437	180167	5405009	8459	253776	107	62	2
May-03	3435	106474	177407	5499624	5901	182921	183895	5700737	8949	277427	112	61	2
Jun-03	3555	106659	175387	5261609	6136	184075	178967	5369000	12785	383564	109	62	5
Jul-03	3435	106472	169494	5254317	6814	211245	177189	5492871	26277	814585	112	59	5
Aug-03	3080	95467	160921	4988542	6580	203965	172938	5361077	52467	1626465	106	63	6
Sep-03	3561	<u>106836</u>	163272	4898157	8603	258082	171393	5141786	47836	1435093	115	62	7

NORTH HOBBS GRAYBURG-SAN ANDRES UNIT
OCTOBER 22, 2001
FOR PROJECT R-6199-B
JANUARY 1996 - AUGUST 2008

Month/Yr	Actual Oil Rate BOPD	Actual Oil Rate Monthly	Water Production BWPD	Water Production Monthly	HCG+Gas Production MCFD	HCG+Gas Production Monthly	Water Injection BWPD	Water Injection Monthly	CO2 Injection MCFD	CO2 Injection Monthly	Number Producing Wells	Number	
												Water Only Injection Wells	WAG CO2 Injection Wells
Oct-03	4082	126542	160340	4970550	13190	408879	169905	5267049	49221	1525841	110	63	9
Nov-03	4989	149655	170282	5108472	20074	602224	178556	5356685	64962	1948870	111	62	9
Dec-03	5412	167784	164381	5095805	20786	644361	171515	5316969	73042	2264300	111	62	10
Jan-04	5820	180419	159946	4958321	24683	765173	172434	5345442	68554	2125173	110	62	11
Feb-04	5931	166062	155412	4351548	25498	713930	162352	4708218	80700	2259606	111	62	12
Mar-04	5772	178924	145188	4500832	26889	833554	154560	4791345	79613	2468005	112	59	13
Apr-04	6365	190945	144706	4341185	33647	1009415	156738	4702136	91258	2737733	114	60	12
May-04	7037	218147	141915	4399352	38895	1205741	156539	4852701	92269	2860354	114	60	13
Jun-04	6863	205897	139215	4176458	36972	1109171	151029	4530865	92874	2786218	114	60	15
Jul-04	7092	219845	134108	4157356	43762	1356609	144598	4482553	96309	2985591	115	58	16
Aug-04	7274	225508	129949	4028419	50924	1578644	143542	4449794	103317	3202820	115	64	18
Sep-04	7323	219678	125954	3778606	49071	1472119	137665	4129958	92755	2782647	115	64	14
Oct-04	6738	208870	117107	3630314	50643	1569946	123340	3823548	104589	3242252	113	61	17
Nov-04	6837	205105	114517	3435507	54152	1624564	121853	3655589	103865	3115946	113	58	19
Dec-04	6700	207708	114546	3550937	45893	1422694	126917	3934418	100972	3130143	115	63	23
Jan-05	6841	212056	120944	3749261	50354	1560965	133926	4151709	119507	3704724	117	60	23
Feb-05	7456	208767	123000	3443997	54883	1536710	135836	3803402	128364	3594197	116	65	26
Mar-05	7282	225740	123148	3817601	56324	1746043	138890	4305601	125970	3905078	115	68	27
Apr-05	7104	213128	118857	3565696	53317	1599499	135810	4074292	122601	3678030	115	70	27
May-05	7444	230765	116787	3620411	52759	1635534	130572	4047720	117359	3638141	117	72	28
Jun-05	7680	230412	114486	3434578	52190	1565709	129379	3881365	122259	3667765	119	71	28
Jul-05	7967	246970	119346	3699724	51273	1589460	134479	4168848	124783	3868283	122	71	28
Aug-05	7924	245636	126054	3907678	53797	1667698	144232	4471202	121113	3754493	123	75	28
Sep-05	8094	242818	122644	3679319	62621	1878626	140277	4208303	152333	4569993	125	72	31
Oct-05	8818	273365	124657	3864362	60854	1886466	142003	4402091	143191	4438928	127	74	31
Nov-05	9313	279404	123525	3705758	62087	1862608	141352	4240566	146263	4387877	128	74	31
Dec-05	9550	296060	118879	3685243	65583	2033085	136432	4229379	144422	4477096	129	74	33
Jan-06	9023	279716	116470	3610576	57683	1788179	136107	4219303	142227	4409046	129	81	35
Feb-06	9441	264335	128249	3590962	68370	1914356	147851	4139826	156449	4380571	133	79	39
Mar-06	9566	296560	127889	3964574	70014	2170427	149053	4620644	145064	4496977	131	82	40
Apr-06	9581	287427	126302	3789074	69297	2078909	148994	4469818	153211	4596315	131	83	42

NORTH HOBBS GRAYBURG-SAN ANDRES UNIT
OCTOBER 22, 2001
EOR PROJECT R-6199-B
JANUARY 1996 - AUGUST 2008

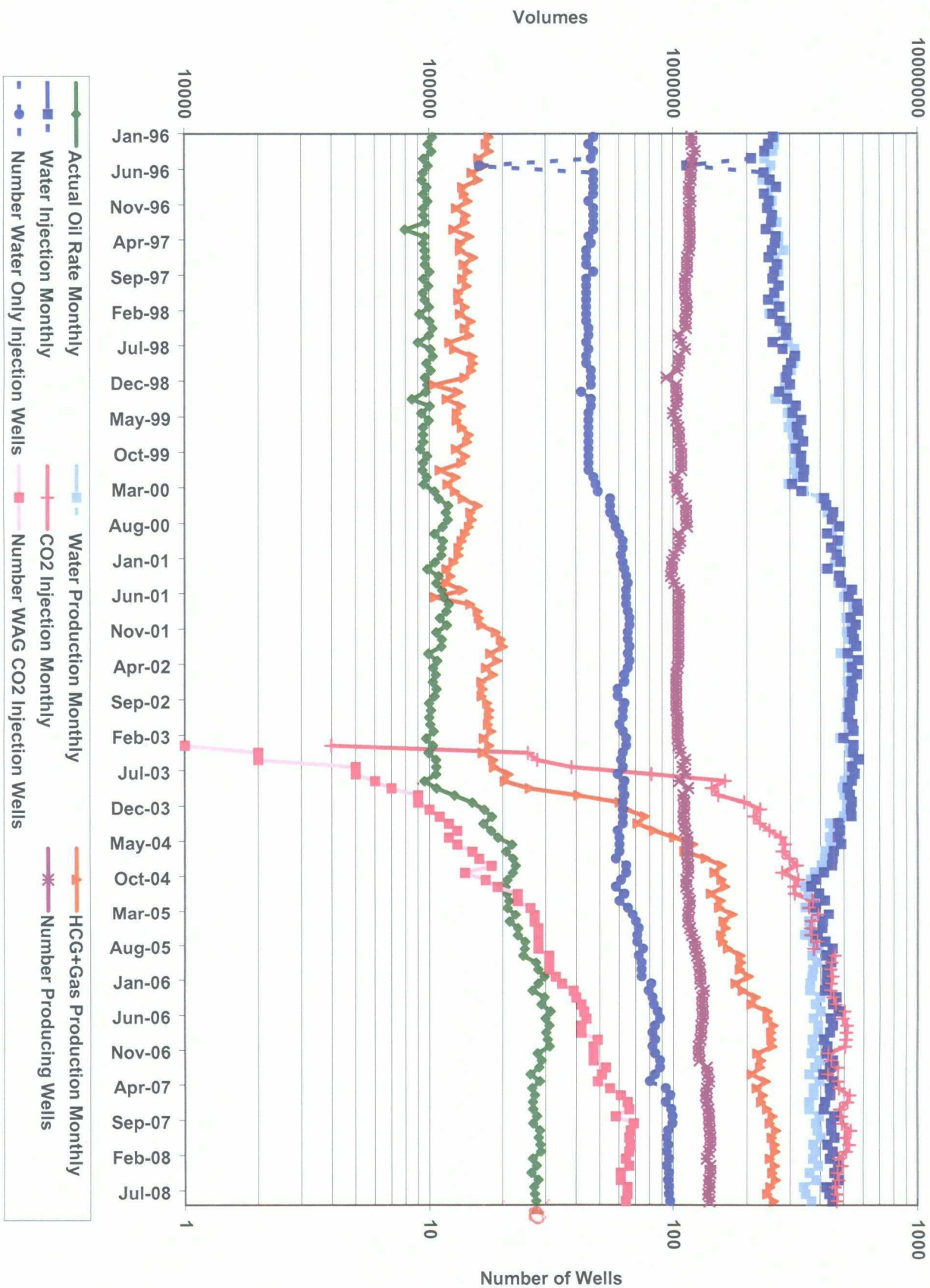
Month/Yr	Actual Oil Rate BOPD	Actual Oil Rate Monthly	Water Production BWPD	Water Production Monthly	HCG+Gas Production MCFD	HCG+Gas Production Monthly	Water Injection BWPD	Water Injection Monthly	CO2 Injection MCFD	CO2 Injection Monthly	Number Producing Wells	Number	
												Water Only Injection Wells	Number WAG CO2 Injection Wells
May-06	10123	313826	128425	3981181	78347	2428750	151739	4703898	161532	5007498	132	86	43
Jun-06	9974	299213	123893	3716778	80699	2420960	145772	4373159	164132	4923954	132	88	44
Jul-06	10012	310360	125037	3876132	82764	2565676	144227	4471041	165115	5118579	130	84	42
Aug-06	9709	300992	125249	3882707	80837	2505953	140307	4349504	164563	5101442	130	82	42
Sep-06	10174	305206	122437	3673100	83747	2512423	136802	4104053	169356	5080690	129	84	49
Oct-06	10026	310791	120346	3730732	81683	2532163	136810	4241095	162229	5029092	127	82	47
Nov-06	9246	277374	121380	3641391	73285	2198536	140279	4208356	142149	4264480	127	84	47
Dec-06	9304	288424	126442	3919713	73594	2281402	144120	4467718	141964	4400895	128	88	47
Jan-07	9088	281717	121445	3764782	72782	2256236	139800	4333801	151736	4703806	137	88	53
Feb-07	9280	259835	127243	3562799	74494	2085823	145811	4082699	152138	4259866	138	84	51
Mar-07	9146	283540	126979	3936363	76895	2383744	145534	4511556	151449	4694908	140	80	49
Apr-07	8794	263817	123851	3715540	72881	2186441	144566	4336982	158209	4746267	137	93	55
May-07	8719	270277	120155	3724820	74828	2319664	140795	4364632	169642	5258895	136	97	61
Jun-07	8853	265581	118813	3564386	75970	2279089	138499	4154969	171918	5157542	137	93	65
Jul-07	8583	266058	115225	3571960	77829	2412692	132338	4102465	154647	4794048	139	98	66
Aug-07	8917	276439	126701	3927736	81934	2539940	146039	4527195	156691	4857432	140	99	58
Sep-07	8886	266567	126622	3798661	82334	2470007	146450	4393500	163001	4890029	140	99	69
Oct-07	9156	283829	124572	3861736	84770	2627865	142422	4415097	171724	5323437	141	95	67
Nov-07	9363	280902	132792	3983771	84172	2525155	151570	4547098	167935	5038040	142	94	66
Dec-07	9189	284859	119725	3711472	83727	2595524	137316	4256796	169438	5252565	142	95	67
Jan-08	9268	287316	122673	3802873	84272	2612421	144545	4480900	164907	5112122	140	94	66
Feb-08	9498	265935	132304	3704509	88447	2476520	150333	4358654	169734	4752548	137	96	64
Mar-08	8891.5	275638	125664.97	3895614	83894	2600716	150333	4709887	158081	4900503	142	94	66
Apr-08	8730.2	261906	119771.23	3593137	84437	2533118	150333	4551020	156226	4686780	142	96	61
May-08	9038.5	280193	123835.77	3838909	84543	2620841	150333	4758266	153477	4757792	140	95	61
Jun-08	8962.5	268875	113333.47	3400004	82988	2489650	150333	4224757	153293	4598787	141	96	65
Jul-08	8724.5	270458	112002.74	3472085	77965	2416905	150333	4350366	151050	4682563	139	96	65
Aug-08	8847.3	274265	118494.1	3673317	83016	2573482	150333	4479268	151006	4681173	141	97	64

NORTH HOBBS GRAYBURG-SAN ANDRES UNIT

OCTOBER 22, 2001

FOR PROJECT R-6199-B

JANUARY 1996 - AUGUST 2008



157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

Well List as of 10-15-08

Producing Wells Eligible for the reduced tax rate.

Well Name	ULSTR	API	Well Type	Date Response / Injection
NORTH HOBBS G/SA UNIT #111	D-31-18S-38E	30-025-07511	O	Jul-2007
NORTH HOBBS G/SA UNIT #111	D-32-18S-38E	30-025-07528	O	Nov-2003
NORTH HOBBS G/SA UNIT #111	D-29-18S-38E	30-025-23919	O	Sep-2006
NORTH HOBBS G/SA UNIT #114	D-33-18S-38E	30-025-23207	O	Feb-2004
NORTH HOBBS G/SA UNIT #121	E-19-18S-38E	30-025-07357	O	Mar-2006
NORTH HOBBS G/SA UNIT #121	E-28-18S-38E	30-025-07420	O	Jun-2005
NORTH HOBBS G/SA UNIT #121	E-29-18S-38E	30-025-07449	O	May-2006
NORTH HOBBS G/SA UNIT #121	E-30-18S-38E	30-025-07464	O	Oct-2006
NORTH HOBBS G/SA UNIT #121	E-33-18S-38E	30-025-07559	O	May-2004
NORTH HOBBS G/SA UNIT #122	E-28-18S-38E	30-025-28964	O	Feb-2005
NORTH HOBBS G/SA UNIT #123	E-33-18S-38E	30-025-23263	O	Aug-2004
NORTH HOBBS G/SA UNIT #131	L-29-18S-38E	30-025-07447	O	Sep-2003
NORTH HOBBS G/SA UNIT #131	L-31-18S-38E	30-025-07509	O	No response
NORTH HOBBS G/SA UNIT #132	L-28-18S-38E	30-025-23277	O	Jan-2005
NORTH HOBBS G/SA UNIT #141	M-24-18S-37E	30-025-05485	O	Jan-2005
NORTH HOBBS G/SA UNIT #141	E-19-18S-38E	30-025-07365	O	Jun-2006
NORTH HOBBS G/SA UNIT #141	M-20-18S-38E	30-025-07383	O	Aug-2007
NORTH HOBBS G/SA UNIT #141	M-30-18S-38E	30-025-07487	O	Jan-2007
NORTH HOBBS G/SA UNIT #141	M-28-18S-38E	30-025-12496	O	Oct-2003
NORTH HOBBS G/SA UNIT #142	M-28-18S-38E	30-025-23246	O	Sep-2003
NORTH HOBBS G/SA UNIT #211	C-24-18S-37E	30-025-07047	O	Mar-2005
NORTH HOBBS G/SA UNIT #211	C-30-18S-38E	30-025-07463	O	Apr-2004
NORTH HOBBS G/SA UNIT #211	C-31-18S-38E	30-025-07503	O	Apr-2004
NORTH HOBBS G/SA UNIT #211	C-32-18S-38E	30-025-07525	O	Oct-2003
NORTH HOBBS G/SA UNIT #212	C-32-18S-38E	30-025-30258	O	Sep-2003
NORTH HOBBS G/SA UNIT #213	C-33-18S-38E	30-025-29065	O	Mar-2006
NORTH HOBBS G/SA UNIT #221	F-19-18S-38E	30-025-07355	O	Jun-2006
NORTH HOBBS G/SA UNIT #221	F-29-18S-38E	30-025-07430	O	Jul-2004
NORTH HOBBS G/SA UNIT #221	F-30-18S-38E	30-025-07462	O	Nov-2003
NORTH HOBBS G/SA UNIT #221	F-32-18S-38E	30-025-07520	O	No response
NORTH HOBBS G/SA UNIT #221	F-24-18S-37E	30-025-09876	O	Apr-2005
NORTH HOBBS G/SA UNIT #231	K-20-18S-38E	30-025-07382	O	Mar-2008
NORTH HOBBS G/SA UNIT #231	K-24-18S-37E	30-025-05483	O	Feb-2005
NORTH HOBBS G/SA UNIT #231	K-29-18S-38E	30-025-07438	O	Sep-2003
NORTH HOBBS G/SA UNIT #231	K-31-18S-38E	30-025-07507	O	Feb-2004
NORTH HOBBS G/SA UNIT #231	K-32-18S-38E	30-025-07521	O	No response
NORTH HOBBS G/SA UNIT #232	K-32-18S-38E	30-025-23035	O	Jun-2004
NORTH HOBBS G/SA UNIT #241	N-24-18S-37E	30-025-05482	O	Mar-2006
NORTH HOBBS G/SA UNIT #241	N-25-18S-37E	30-025-05501	O	Mar-2006
NORTH HOBBS G/SA UNIT #241	N-20-18S-38E	30-025-12493	O	No response
NORTH HOBBS G/SA UNIT #241	N-28-18S-38E	30-025-12498	O	Jul-2005
NORTH HOBBS G/SA UNIT #242	N-19-18S-38E	30-025-23481	O	May-2006
NORTH HOBBS G/SA UNIT #243	N-28-18S-38E	30-025-23304	O	Jul-2004

157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

Well List as of 10-15-08

NORTH HOBBS G/SA UNIT #311	B-24-18S-37E	30-025-05481	O	Jan-2006
NORTH HOBBS G/SA UNIT #311	B-36-18S-37E	30-025-05541	O	May-2005
NORTH HOBBS G/SA UNIT #311	B-29-18S-38E	30-025-07432	O	Jul-2004
NORTH HOBBS G/SA UNIT #311	B-31-18S-38E	30-025-07491	O	Mar-2005
NORTH HOBBS G/SA UNIT #313	B-32-18S-38E	30-025-30263	O	Oct-2003
NORTH HOBBS G/SA UNIT #321	G-24-18S-37E	30-025-05480	O	Jan-2005
NORTH HOBBS G/SA UNIT #321	G-19-18S-38E	30-025-07360	O	Nov-2007
NORTH HOBBS G/SA UNIT #321	G-30-18S-38E	30-025-07467	O	Aug-2003
NORTH HOBBS G/SA UNIT #321	G-31-18S-38E	30-025-07492	O	Apr-2003
NORTH HOBBS G/SA UNIT #322B	G-32-18S-38E	30-025-07518	O	Jul-2004
NORTH HOBBS G/SA UNIT #323	G-29-18S-38E	30-025-28941	O	Feb-2006
NORTH HOBBS G/SA UNIT #331	J-14-18S-37E	30-025-05455	O	No response
NORTH HOBBS G/SA UNIT #331	J-23-18S-37E	30-025-05474	O	Jun-2005
NORTH HOBBS G/SA UNIT #331	J-25-18S-37E	30-025-05500	O	Jan-2007
NORTH HOBBS G/SA UNIT #331	J-31-18S-38E	30-025-07499	O	Jul-2006
NORTH HOBBS G/SA UNIT #332	J-32-18S-38E	30-025-29173	O	Jul-2006
NORTH HOBBS G/SA UNIT #341	O-13-18S-37E	30-025-05446	O	Jun-2005
NORTH HOBBS G/SA UNIT #341	O-24-18S-37E	30-025-05490	O	Mar-2005
NORTH HOBBS G/SA UNIT #341	O-20-18S-38E	30-025-07371	O	Apr-2007
NORTH HOBBS G/SA UNIT #341	O-29-18S-38E	30-025-07445	O	Nov-2003
NORTH HOBBS G/SA UNIT #341	O-19-18S-38E	30-025-12491	O	Jan-2008
NORTH HOBBS G/SA UNIT #341	O-30-18S-38E	30-025-24665	O	Aug-2003
NORTH HOBBS G/SA UNIT #411	A-31-18S-38E	30-025-07490	O	May-2004
NORTH HOBBS G/SA UNIT #411	A-24-18S-37E	30-025-23522	O	Apr-2005
NORTH HOBBS G/SA UNIT #411A	A-32-18S-38E	30-025-07516	O	Nov-2003
NORTH HOBBS G/SA UNIT #412	A-24-18S-37E	30-025-05479	O	Feb-2007
NORTH HOBBS G/SA UNIT #412	A-30-18S-38E	30-025-23384	O	May-2005
NORTH HOBBS G/SA UNIT #421	H-14-18S-37E	30-025-05456	O	Nov-2005
NORTH HOBBS G/SA UNIT #421	H-23-18S-37E	30-025-05466	O	Aug-2005
NORTH HOBBS G/SA UNIT #421	H-25-18S-37E	30-025-05504	O	Feb-2006
NORTH HOBBS G/SA UNIT #421	H-19-18S-38E	30-025-07368	O	No response
NORTH HOBBS G/SA UNIT #421	H-30-18S-38E	30-025-07468	O	Jan-2006
NORTH HOBBS G/SA UNIT #421	H-31-18S-38E	30-025-07493	O	Oct-2007
NORTH HOBBS G/SA UNIT #421	H-32-18S-38E	30-025-12507	O	Oct-2003
NORTH HOBBS G/SA UNIT #421	H-24-18S-37E	30-025-23081	O	Sep-2005
NORTH HOBBS G/SA UNIT #422	H-31-18S-38E	30-025-28887	O	Nov-2003
NORTH HOBBS G/SA UNIT #424	H-32-18S-38E	30-025-23130	O	Nov-2003
NORTH HOBBS G/SA UNIT #431	I-24-18S-37E	30-025-05487	O	Nov-2004
NORTH HOBBS G/SA UNIT #431	I-29-18S-38E	30-025-07458	O	Feb-2004
NORTH HOBBS G/SA UNIT #431	I-31-18S-38E	30-025-12758	O	Nov-2003
NORTH HOBBS G/SA UNIT #441	P-23-18S-37E	30-025-05473	O	Apr-2006
NORTH HOBBS G/SA UNIT #441	P-24-18S-37E	30-025-05486	O	Oct-2004
NORTH HOBBS G/SA UNIT #441	P-19-18S-38E	30-025-07366	O	Dec-2007
NORTH HOBBS G/SA UNIT #441	P-29-18S-38E	30-025-07444	O	Nov-2003
NORTH HOBBS G/SA UNIT #441	P-30-18S-38E	30-025-07473	O	Oct-2003
NORTH HOBBS G/SA UNIT #511	D-33-18S-38E	30-025-34906	O	Dec-2003

157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

Well List as of 10-15-08

NORTH HOBBS G/SA UNIT #512	F-32-18S-38E	30-025-34907	O	Nov-2003
NORTH HOBBS G/SA UNIT #514	E-32-18S-38E	30-025-36245	O	Mar-2004
NORTH HOBBS G/SA UNIT #516	M-13-18S-37E	30-025-38023	O	No response
NORTH HOBBS G/SA UNIT #517	M-18-18S-38E	30-025-38087	O	Feb-2007
NORTH HOBBS G/SA UNIT #521	C-33-18S-38E	30-025-34643	O	Mar-2004
NORTH HOBBS G/SA UNIT #523	F-33-18S-38E	30-025-34372	O	Jun-2005
NORTH HOBBS G/SA UNIT #525	K-30-18S-38E	30-025-36216	O	Nov-2003
NORTH HOBBS G/SA UNIT #526	F-33-18S-38E	30-025-23334	O	No response
NORTH HOBBS G/SA UNIT #527	N-30-18S-38E	30-025-36247	O	Oct-2003
NORTH HOBBS G/SA UNIT #529	N-18-18S-38E	30-025-38110	O	Aug-2007
NORTH HOBBS G/SA UNIT #531	J-32-18S-38E	30-025-34374	O	May-2004
NORTH HOBBS G/SA UNIT #532	G-32-18S-38E	30-025-12504	O	Jan-2008
NORTH HOBBS G/SA UNIT #533	J-29-18S-38E	30-025-35541	O	Sep-2003
NORTH HOBBS G/SA UNIT #537	B-32-18S-38E	30-025-36149	O	Feb-2005
NORTH HOBBS G/SA UNIT #538	J-30-18S-38E	30-025-36281	O	Oct-2003
NORTH HOBBS G/SA UNIT #539	J-24-18S-37E	30-025-36213	O	Oct-2004
NORTH HOBBS G/SA UNIT #541	A-32-18S-38E	30-025-34964	O	Dec-2003
NORTH HOBBS G/SA UNIT #542	I-32-18S-38E	30-025-34375	O	Jan-2005
NORTH HOBBS G/SA UNIT #544	P-29-18S-38E	30-025-34644	O	Oct-2003
NORTH HOBBS G/SA UNIT #546	I-30-18S-38E	30-025-36280	O	Oct-2003
NORTH HOBBS G/SA UNIT #547	P-30-18S-38E	30-025-36242	O	Jun-2004
NORTH HOBBS G/SA UNIT #548	G-32-18S-38E	30-025-36150	O	Mar-2004
NORTH HOBBS G/SA UNIT #549	I-24-18S-37E	30-025-36193	O	Sep-2004
NORTH HOBBS G/SA UNIT #611	D-24-18S-37E	30-025-35467	O	Mar-2005
NORTH HOBBS G/SA UNIT #612	E-24-18S-37E	30-025-35450	O	Mar-2006
NORTH HOBBS G/SA UNIT #613	L-24-18S-37E	30-025-35370	O	Jul-2005
NORTH HOBBS G/SA UNIT #614	G-24-18S-37E	30-025-35555	O	Nov-2004
NORTH HOBBS G/SA UNIT #615	D-19-18S-38E	30-025-37127	O	Nov-2006
NORTH HOBBS G/SA UNIT #616	E-19-18S-38E	30-025-37154	O	Mar-2006
NORTH HOBBS G/SA UNIT #617	D-30-18S-38E	30-025-37102	O	Oct-2005
NORTH HOBBS G/SA UNIT #618	L-30-18S-38E	30-025-37120	O	Sep-2005
NORTH HOBBS G/SA UNIT #621	C-30-18S-38E	30-025-35332	O	Feb-2004
NORTH HOBBS G/SA UNIT #623	K-29-18S-38E	30-025-34869	O	Mar-2006
NORTH HOBBS G/SA UNIT #624	N-29-18S-38E	30-025-34870	O	Jun-2003
NORTH HOBBS G/SA UNIT #625	E-29-18S-38E	30-025-37213	O	Sep-2005
NORTH HOBBS G/SA UNIT #627	L-19-18S-38E	30-025-37235	O	May-2006
NORTH HOBBS G/SA UNIT #628	B-19-18S-38E	30-025-38524	O	Aug-2007
NORTH HOBBS G/SA UNIT #634	O-29-18S-38E	30-025-35384	O	Sep-2003
NORTH HOBBS G/SA UNIT #636	F-29-18S-38E	30-025-37128	O	May-2006
NORTH HOBBS G/SA UNIT #638	B-19-18S-38E	30-025-38125	O	Nov-2007
NORTH HOBBS G/SA UNIT #641	A-25-18S-37E	30-025-37118	O	Feb-2007
NORTH HOBBS G/SA UNIT #642	I-25-18S-37E	30-025-37105	O	Aug-2007
NORTH HOBBS G/SA UNIT #643	I-29-18S-38E	30-025-35376	O	Sep-2003
NORTH HOBBS G/SA UNIT #645	P-13-18S-37E	30-025-38518	O	Aug-2007
NORTH HOBBS G/SA UNIT #646	M-13-18S-37E	30-025-38071	O	No response
NORTH HOBBS G/SA UNIT #713	B-30-18S-38E	30-025-34983	O	May-2004

157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

Well List as of 10-15-08

NORTH HOBBS G/SA UNIT #721	C-29-18S-38E	30-025-37474	O	Nov-2006
NORTH HOBBS G/SA UNIT #722	B-31-18S-38E	30-025-37428	O	Oct-2005
NORTH HOBBS G/SA UNIT #731	B-25-18S-37E	30-025-37481	O	Oct-2006
NORTH HOBBS G/SA UNIT #733	I-19-18S-38E	30-025-37445	O	Mar-2007
NORTH HOBBS G/SA UNIT #742	G-29-18S-38E	30-025-37475	O	Jul-2007
NORTH HOBBS G/SA UNIT #743	I-31-18S-38E	30-025-35451	O	Feb-2004
NORTH HOBBS G/SA UNIT #744	P-25-18S-37E	30-025-05493	O	No response ✓
NORTH HOBBS G/SA UNIT #814	M-29-18S-38E	30-025-35527	O	Feb-2004
NORTH HOBBS G/SA UNIT #913	L-32-18S-38E	30-025-35385	O	Aug-2004
NORTH HOBBS G/SA UNIT #923	K-29-18S-38E	30-025-36011	O	Mar-2005
NORTH HOBBS G/SA UNIT #943	H-19-18S-38E	30-025-37435	O	Nov-2007
NORTH HOBBS G/SA UNIT #944	I-29-18S-38E	30-025-35999	O	Aug-2006
NORTH HOBBS G/SA UNIT #231	K-30-18S-38E	30-025-07479	M	7

147 - 10 = 137

12

157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

Well List as of 10-15-08

Injection Wells

Well Name	ULSTR	API	Well Type
NORTH HOBBS G/SA UNIT #111	D-24-18S-37E	30-025-05477	I
NORTH HOBBS G/SA UNIT #111	D-30-18S-38E	30-025-07077	I
NORTH HOBBS G/SA UNIT #111	D-28-18S-38E	30-025-07422	I
NORTH HOBBS G/SA UNIT #111	D-33-18S-38E	30-025-12505	I
NORTH HOBBS G/SA UNIT #112	D-19-18S-38E	30-025-07358	I
NORTH HOBBS G/SA UNIT #112	E-32-18S-38E	30-025-07526	I
NORTH HOBBS G/SA UNIT #112	D-30-18S-38E	30-025-29063	I
NORTH HOBBS G/SA UNIT #113	D-30-18S-38E	30-025-29064	I
NORTH HOBBS G/SA UNIT #121	E-24-18S-37E	30-025-05476	I
NORTH HOBBS G/SA UNIT #121	E-25-18S-37E	30-025-05502	I
NORTH HOBBS G/SA UNIT #121	E-31-18S-38E	30-025-07514	I
NORTH HOBBS G/SA UNIT #122	E-29-18S-38E	30-025-28953	I
NORTH HOBBS G/SA UNIT #131	L-24-18S-37E	30-025-05484	I
NORTH HOBBS G/SA UNIT #131	L-30-18S-38E	30-025-07481	I
NORTH HOBBS G/SA UNIT #131	L-32-18S-38E	30-025-07527	I
NORTH HOBBS G/SA UNIT #131	L-28-18S-38E	30-025-12497	I
NORTH HOBBS G/SA UNIT #131	L-20-18S-38E	30-025-23206	I
NORTH HOBBS G/SA UNIT #131A	L-19-18S-38E	30-025-07361	I
NORTH HOBBS G/SA UNIT #132	L-29-18S-38E	30-025-26917	I
NORTH HOBBS G/SA UNIT #132	L-32-18S-38E	30-025-27139	I
NORTH HOBBS G/SA UNIT #141	M-13-18S-37E	30-025-05437	I
NORTH HOBBS G/SA UNIT #141	M-29-18S-38E	30-025-07448	I
NORTH HOBBS G/SA UNIT #142	M-19-18S-38E	30-025-27138	I
NORTH HOBBS G/SA UNIT #211	C-23-18S-37E	30-025-05469	I
NORTH HOBBS G/SA UNIT #211	C-36-18S-37E	30-025-05542	I
NORTH HOBBS G/SA UNIT #211	C-28-18S-38E	30-025-07425	I
NORTH HOBBS G/SA UNIT #211	C-33-18S-38E	30-025-07564	I
NORTH HOBBS G/SA UNIT #212	C-33-18S-38E	30-025-29026	I
NORTH HOBBS G/SA UNIT #212	C-24-18S-37E	30-025-29129	I
NORTH HOBBS G/SA UNIT #221	F-13-18S-37E	30-025-05439	I
NORTH HOBBS G/SA UNIT #221	F-28-18S-38E	30-025-07429	I
NORTH HOBBS G/SA UNIT #221	F-33-18S-38E	30-025-07560	I
NORTH HOBBS G/SA UNIT #222	F-30-18S-38E	30-025-26833	I
NORTH HOBBS G/SA UNIT #222	F-29-18S-38E	30-025-26934	I
NORTH HOBBS G/SA UNIT #222	F-33-18S-38E	30-025-26975	I
NORTH HOBBS G/SA UNIT #222	F-32-18S-38E	30-025-27140	I
NORTH HOBBS G/SA UNIT #223	F-30-18S-38E	30-025-28555	I
NORTH HOBBS G/SA UNIT #223	F-32-18S-38E	30-025-28944	I
NORTH HOBBS G/SA UNIT #231	K-14-18S-37E	30-025-05451	I
NORTH HOBBS G/SA UNIT #231	K-23-18S-37E	30-025-05471	I
NORTH HOBBS G/SA UNIT #231	K-25-18S-37E	30-025-05498	I
NORTH HOBBS G/SA UNIT #231	K-19-18S-38E	30-025-07362	I
NORTH HOBBS G/SA UNIT #231	K-28-18S-38E	30-025-07421	I
NORTH HOBBS G/SA UNIT #232	K-30-18S-38E	30-025-26935	I

425

157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

Well List as of 10-15-08

NORTH HOBBS G/SA UNIT #232	K-28-18S-38E	30-025-28882	I
NORTH HOBBS G/SA UNIT #232	K-19-18S-38E	30-025-29172	O
NORTH HOBBS G/SA UNIT #233	K-20-18S-38E	30-025-27214	I
NORTH HOBBS G/SA UNIT #233	K-30-18S-38E	30-025-28942	I
NORTH HOBBS G/SA UNIT #241	N-13-18S-37E	30-025-05436	I
NORTH HOBBS G/SA UNIT #241	N-29-18S-38E	30-025-07437	I
NORTH HOBBS G/SA UNIT #242	N-24-18S-37E	30-025-26832	I
NORTH HOBBS G/SA UNIT #242	N-29-18S-38E	30-025-28413	I
NORTH HOBBS G/SA UNIT #242	N-30-18S-38E	30-025-28886	I
NORTH HOBBS G/SA UNIT #242	N-28-18S-38E	30-025-29276	I
NORTH HOBBS G/SA UNIT #311	B-19-18S-38E	30-025-07369	I
NORTH HOBBS G/SA UNIT #311	B-26-18S-37E	30-025-25116	I
NORTH HOBBS G/SA UNIT #312	B-31-18S-38E	30-025-27060	I
NORTH HOBBS G/SA UNIT #312	B-32-18S-38E	30-025-29017	I
NORTH HOBBS G/SA UNIT #312	B-24-18S-37E	30-025-29130	I
NORTH HOBBS G/SA UNIT #312	B-30-18S-38E	30-025-29197	I
NORTH HOBBS G/SA UNIT #313	B-30-18S-38E	30-025-23270	I
NORTH HOBBS G/SA UNIT #321	G-14-18S-37E	30-025-05457	I
NORTH HOBBS G/SA UNIT #321	G-23-18S-37E	30-025-05463	I
NORTH HOBBS G/SA UNIT #321	G-36-18S-37E	30-025-05540	I
NORTH HOBBS G/SA UNIT #321	G-29-18S-38E	30-025-07431	I
NORTH HOBBS G/SA UNIT #321	G-32-18S-38E	30-025-12506	I
NORTH HOBBS G/SA UNIT #322	G-29-18S-38E	30-025-28883	I
NORTH HOBBS G/SA UNIT #322A	G-31-18S-38E	30-025-30204	I
NORTH HOBBS G/SA UNIT #323G	G-32-18S-38E	30-025-26973	I
NORTH HOBBS G/SA UNIT #331	J-13-18S-37E	30-025-05447	I
NORTH HOBBS G/SA UNIT #331	J-24-18S-37E	30-025-05488	I
NORTH HOBBS G/SA UNIT #331	J-30-18S-38E	30-025-07472	I
NORTH HOBBS G/SA UNIT #331	J-32-18S-38E	30-025-07538	I
NORTH HOBBS G/SA UNIT #332	J-30-18S-38E	30-025-28954	I
NORTH HOBBS G/SA UNIT #332	J-19-18S-38E	30-025-29195	I
NORTH HOBBS G/SA UNIT #333	J-30-18S-38E	30-025-28955	I
NORTH HOBBS G/SA UNIT #341	O-14-18S-37E	30-025-05450	I
NORTH HOBBS G/SA UNIT #341	O-23-18S-37E	30-025-05475	I
NORTH HOBBS G/SA UNIT #341	O-25-18S-37E	30-025-05497	I
NORTH HOBBS G/SA UNIT #341	O-31-18S-38E	30-025-07500	I
NORTH HOBBS G/SA UNIT #341	O-18-18S-38E	30-025-23765	I
NORTH HOBBS G/SA UNIT #342	O-29-18S-38E	30-025-28884	I
NORTH HOBBS G/SA UNIT #342	O-24-18S-37E	30-025-29062	I
NORTH HOBBS G/SA UNIT #411	A-26-18S-37E	30-025-05509	I
NORTH HOBBS G/SA UNIT #411	A-36-18S-37E	30-025-05539	I
NORTH HOBBS G/SA UNIT #411	A-19-18S-38E	30-025-07370	I
NORTH HOBBS G/SA UNIT #411	A-29-18S-38E	30-025-07454	I
NORTH HOBBS G/SA UNIT #411	A-30-18S-38E	30-025-07470	I
NORTH HOBBS G/SA UNIT #411	A-23-18S-37E	30-025-12783	I
NORTH HOBBS G/SA UNIT #413	A-24-18S-37E	30-025-28414	I

45 + 0

157984 OCCIDENTAL PERMIAN LTD

North Hobbs Grayburg San Andres Unit Phase 1 Tertiary Recovery Project

OCD Order No. R-6199-B

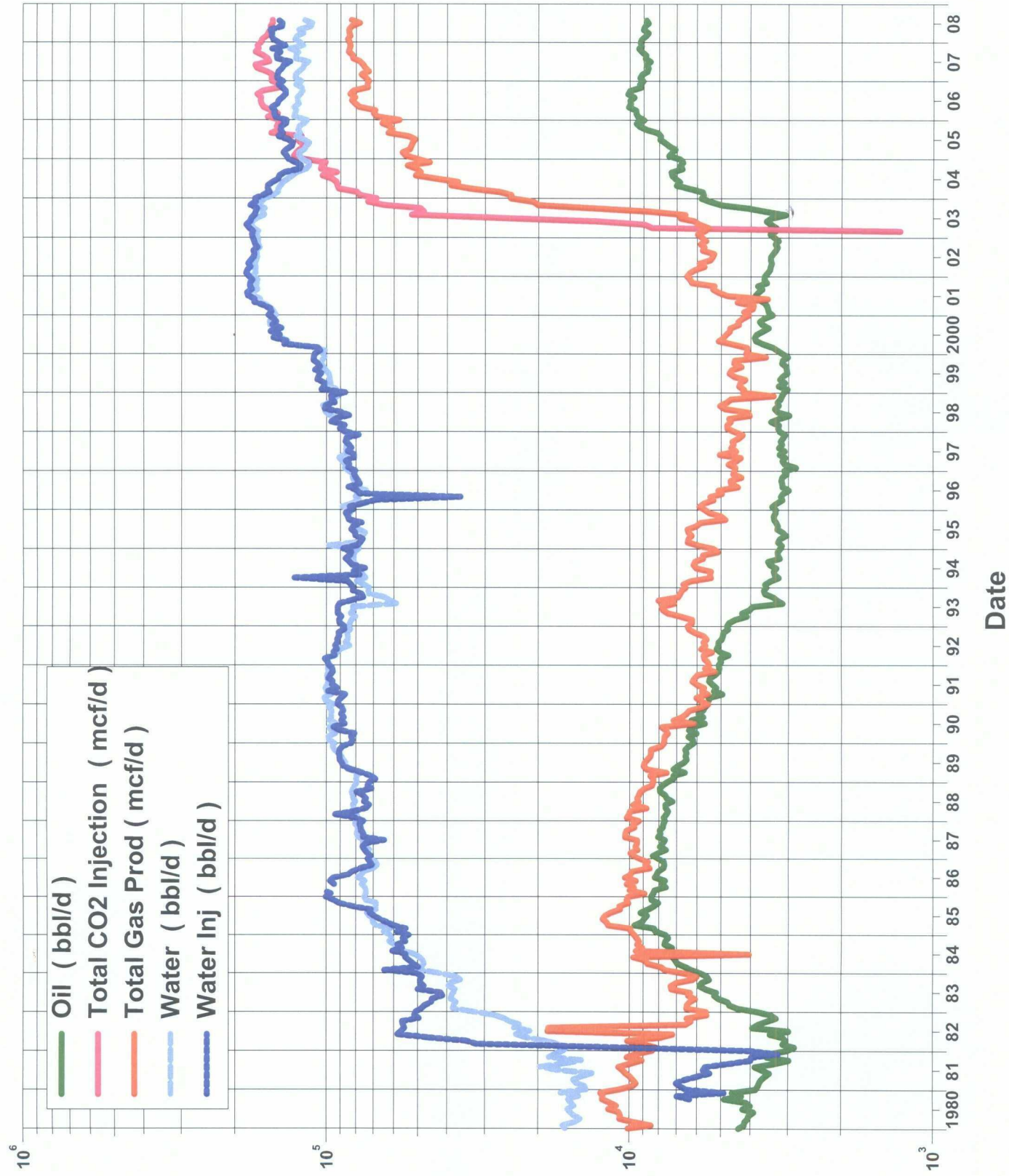
Well List as of 10-15-08

NORTH HOBBS G/SA UNIT #414	A-24-18S-37E	30-025-28879	I
NORTH HOBBS G/SA UNIT #422	H-24-18S-37E	30-025-05478	I
NORTH HOBBS G/SA UNIT #422	H-25-18S-37E	30-025-26933	I
NORTH HOBBS G/SA UNIT #422	H-30-18S-38E	30-025-27059	I
NORTH HOBBS G/SA UNIT #422	H-32-18S-38E	30-025-29074	I
NORTH HOBBS G/SA UNIT #423	H-32-18S-38E	30-025-29198	I
NORTH HOBBS G/SA UNIT #431	I-13-18S-37E	30-025-05445	I
NORTH HOBBS G/SA UNIT #431	I-14-18S-37E	30-025-05454	I
NORTH HOBBS G/SA UNIT #431	I-23-18S-37E	30-025-05467	I
NORTH HOBBS G/SA UNIT #431	I-25-18S-37E	30-025-05492	I
NORTH HOBBS G/SA UNIT #431	I-30-18S-38E	30-025-07474	I
NORTH HOBBS G/SA UNIT #431	I-32-18S-38E	30-025-07537	I
NORTH HOBBS G/SA UNIT #431	I-19-18S-38E	30-025-22601	I
NORTH HOBBS G/SA UNIT #432	I-32-18S-38E	30-025-26974	I
NORTH HOBBS G/SA UNIT #432	I-30-18S-38E	30-025-28957	I
NORTH HOBBS G/SA UNIT #432	I-24-18S-37E	30-025-29073	I
NORTH HOBBS G/SA UNIT #441	P-25-18S-37E	30-025-05499	I
NORTH HOBBS G/SA UNIT #441	P-13-18S-37E	30-025-12732	I
NORTH HOBBS G/SA UNIT #442	P-30-18S-38E	30-025-27001	I
NORTH HOBBS G/SA UNIT #442	P-13-18S-37E	30-025-28878	I
NORTH HOBBS G/SA UNIT #442	P-19-18S-38E	30-025-28881	I
NORTH HOBBS G/SA UNIT #442	P-29-18S-38E	30-025-28885	I
NORTH HOBBS G/SA UNIT #442	P-24-18S-37E	30-025-29098	I
NORTH HOBBS G/SA UNIT #443	P-30-18S-38E	30-025-28958	I
NORTH HOBBS G/SA UNIT #444	P-30-18S-38E	30-025-28959	I
NORTH HOBBS G/SA UNIT #518	M-18-18S-38E	30-025-38114	I
NORTH HOBBS G/SA UNIT #536	O-30-18S-38E	30-025-36286	I
NORTH HOBBS G/SA UNIT #622	J-24-18S-37E	30-025-37152	I
NORTH HOBBS G/SA UNIT #626	K-29-18S-38E	30-025-37250	I
NORTH HOBBS G/SA UNIT #632	J-31-18S-38E	30-025-37214	I
NORTH HOBBS G/SA UNIT #633	G-19-18S-38E	30-025-37446	I
NORTH HOBBS G/SA UNIT #635	I-29-18S-38E	30-025-37409	I
NORTH HOBBS G/SA UNIT #637	B-24-18S-37E	30-025-37101	O 7
NORTH HOBBS G/SA UNIT #711	C-29-18S-38E	30-025-37451	I
NORTH HOBBS G/SA UNIT #712	E-29-18S-38E	30-025-37558	I
NORTH HOBBS G/SA UNIT #741	A-25-18S-37E	30-025-37480	I
NORTH HOBBS G/SA UNIT #813	L-29-18S-38E	30-025-34871	I

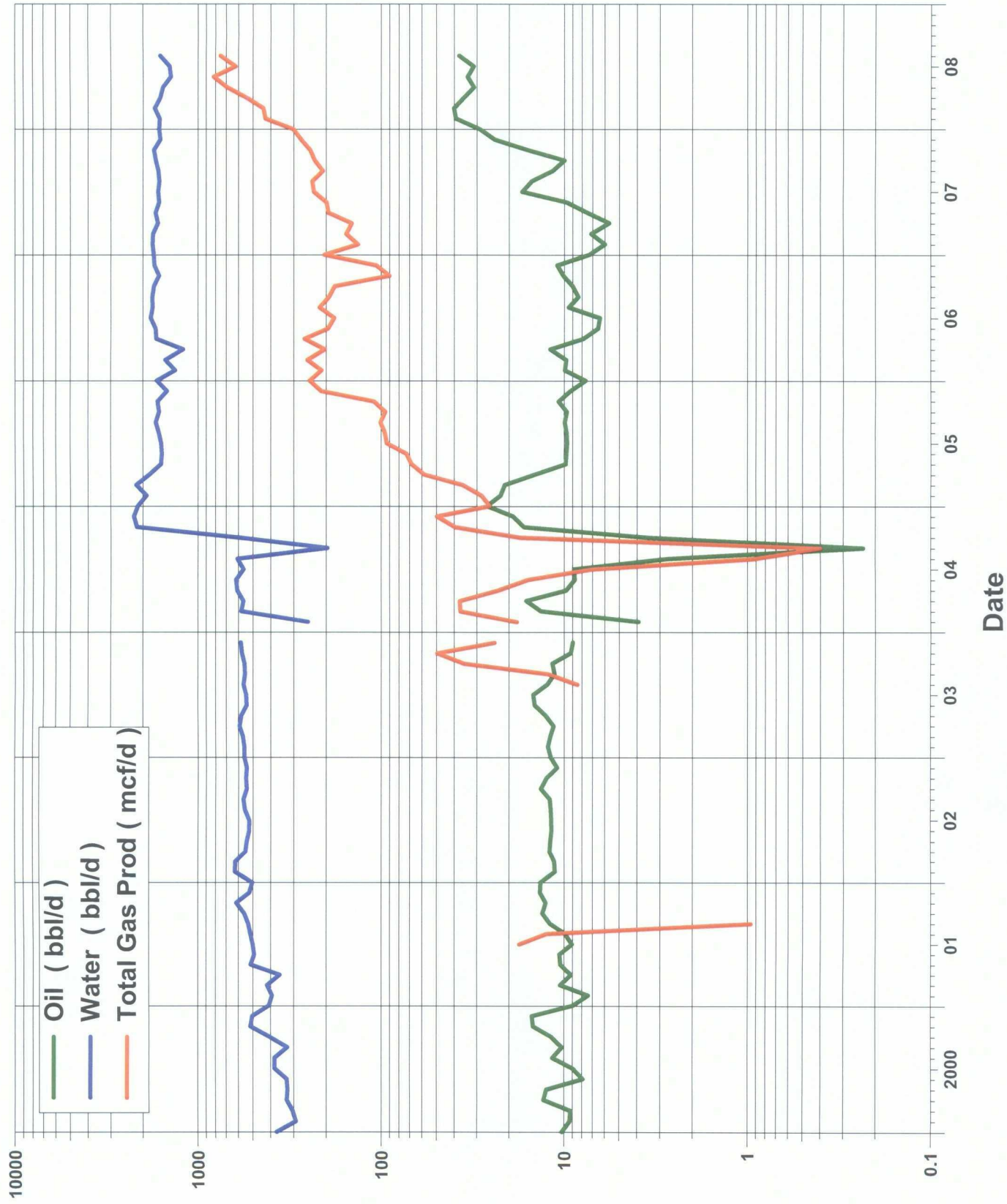
125 + 20 = 127

36 + 0

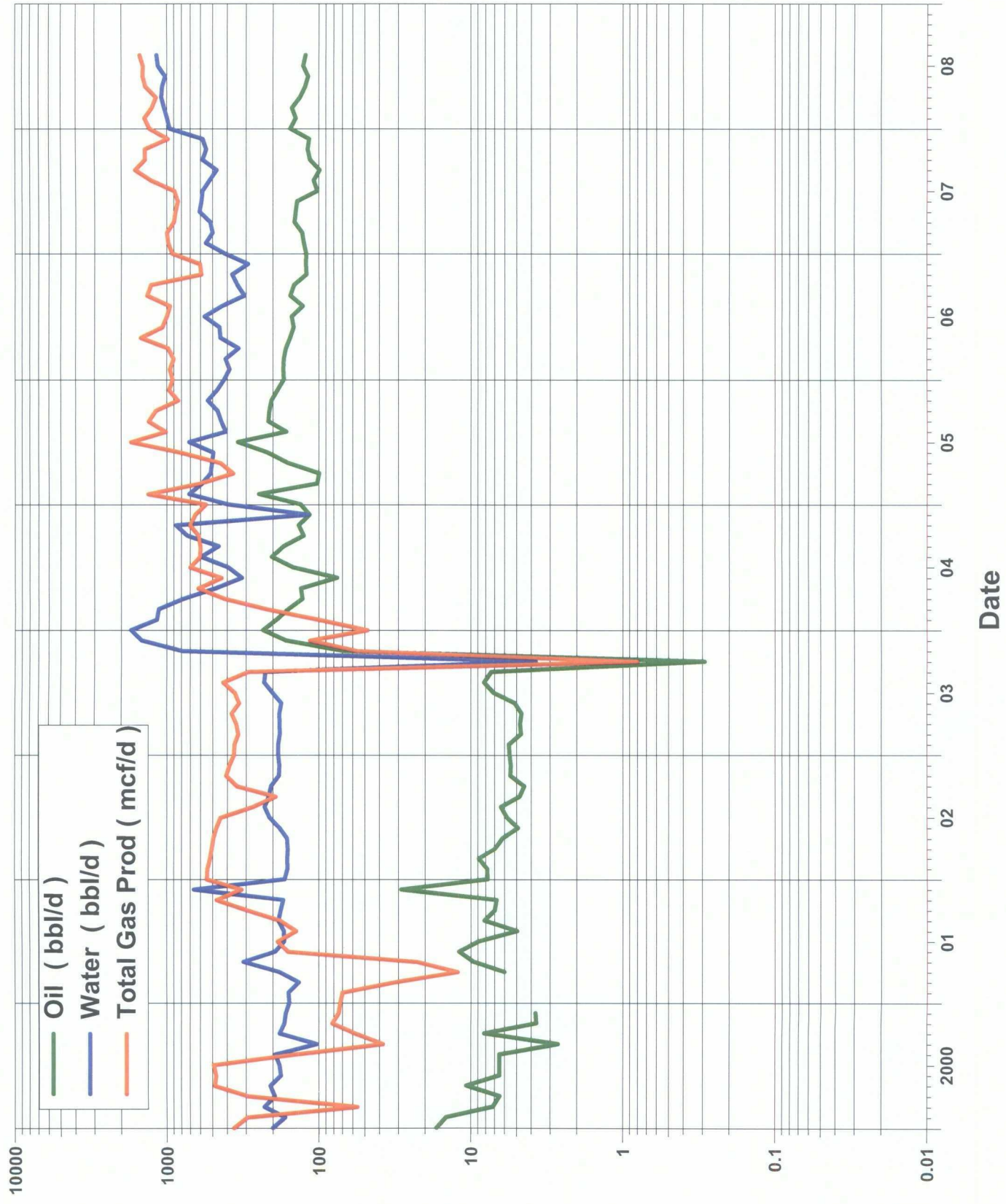
NORTH HOBBS GBSAU CO2 FLOOD PROJECT AREA R-6199-B



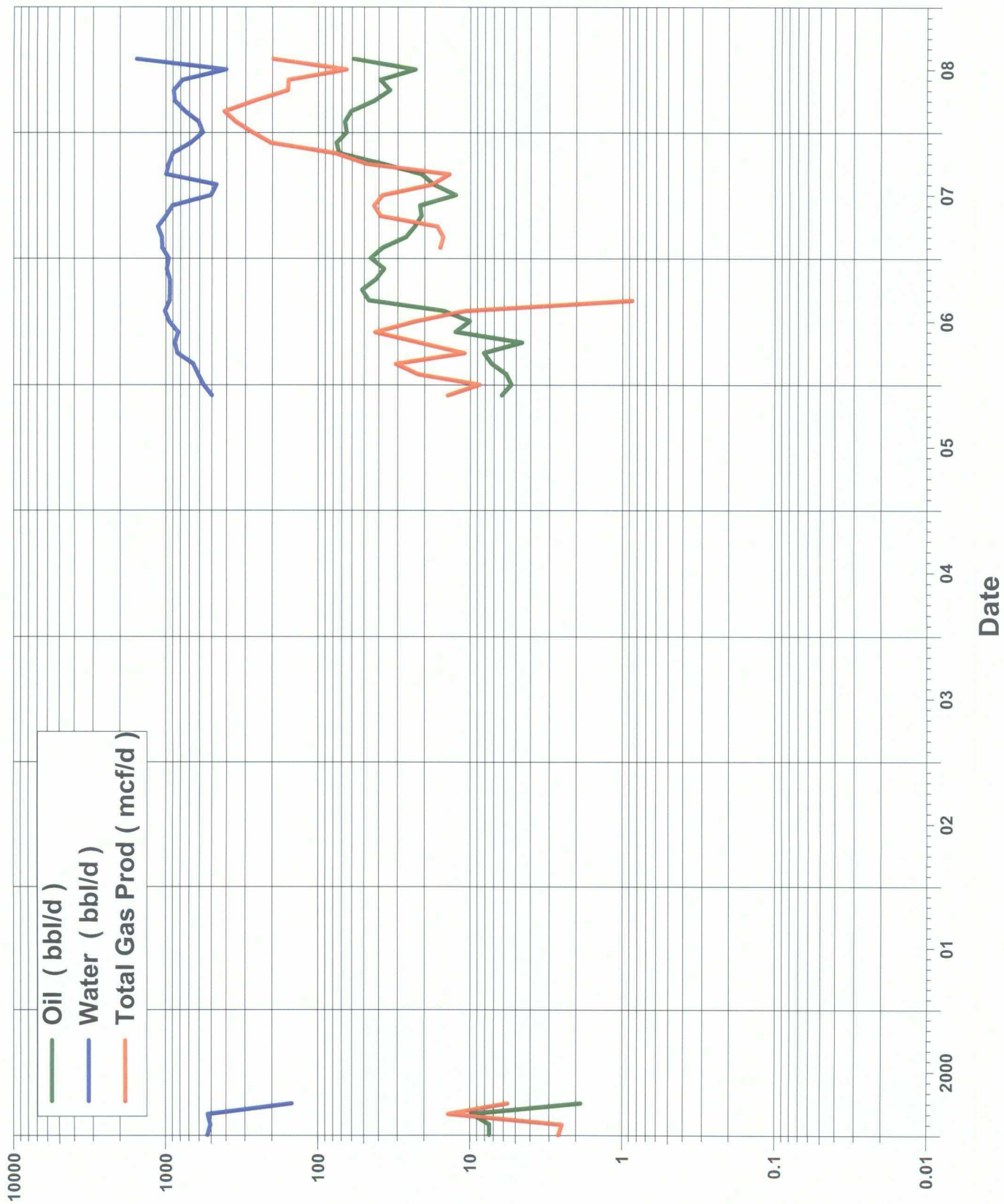
North Hobbs Unit 31111



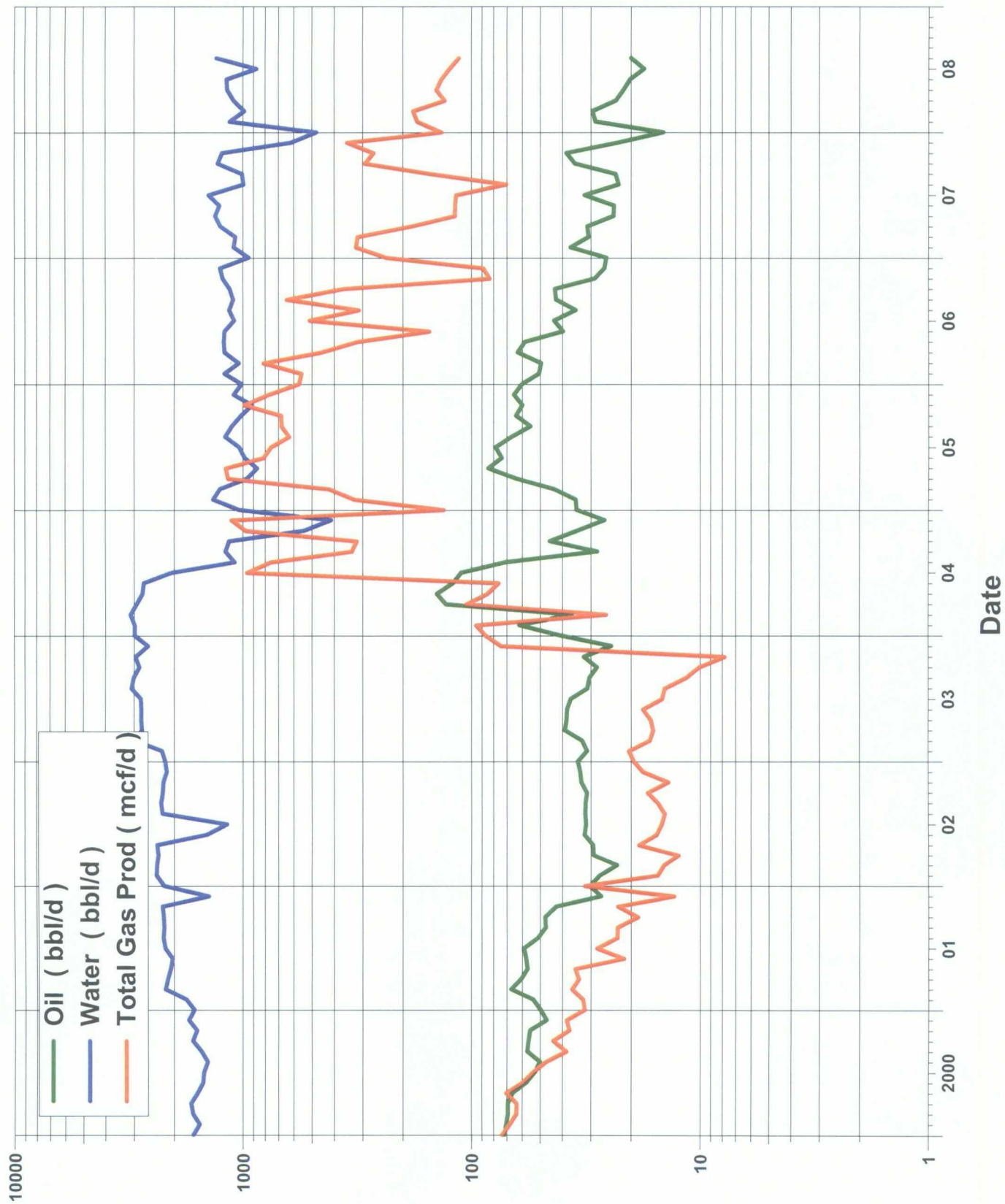
North Hobbs Unit 32111



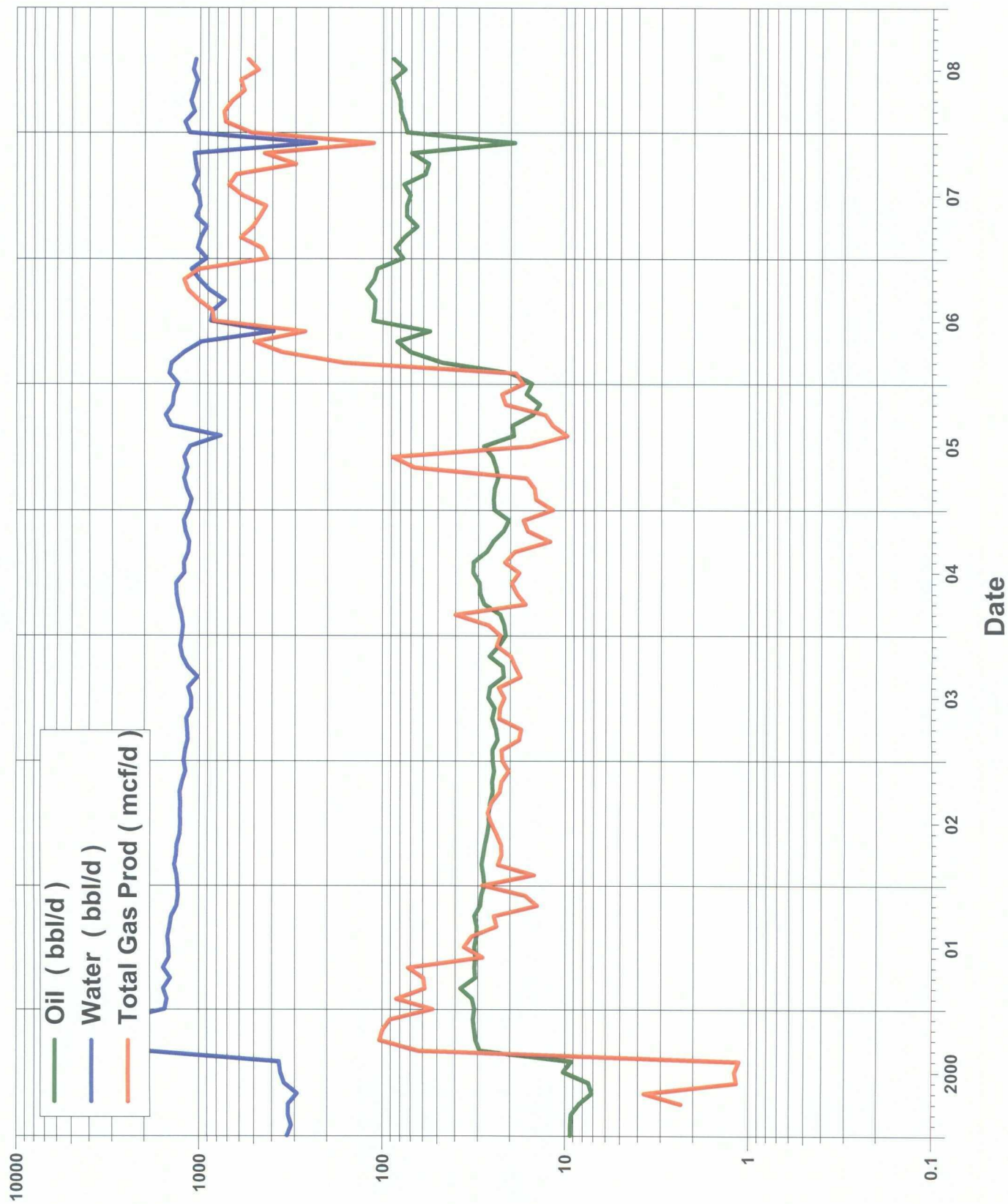
North Hobbs Unit 29111



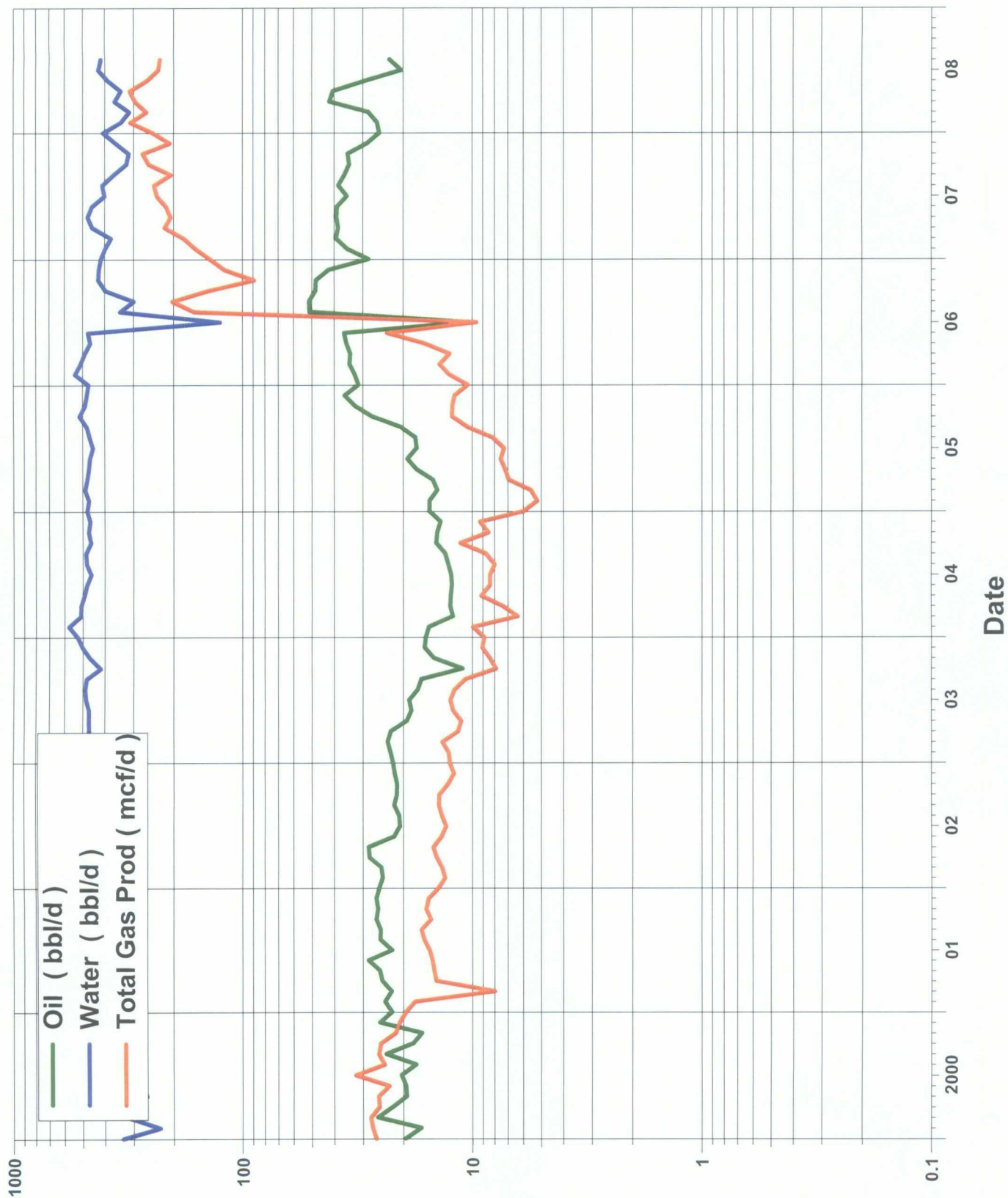
North Hobbs Unit 33114



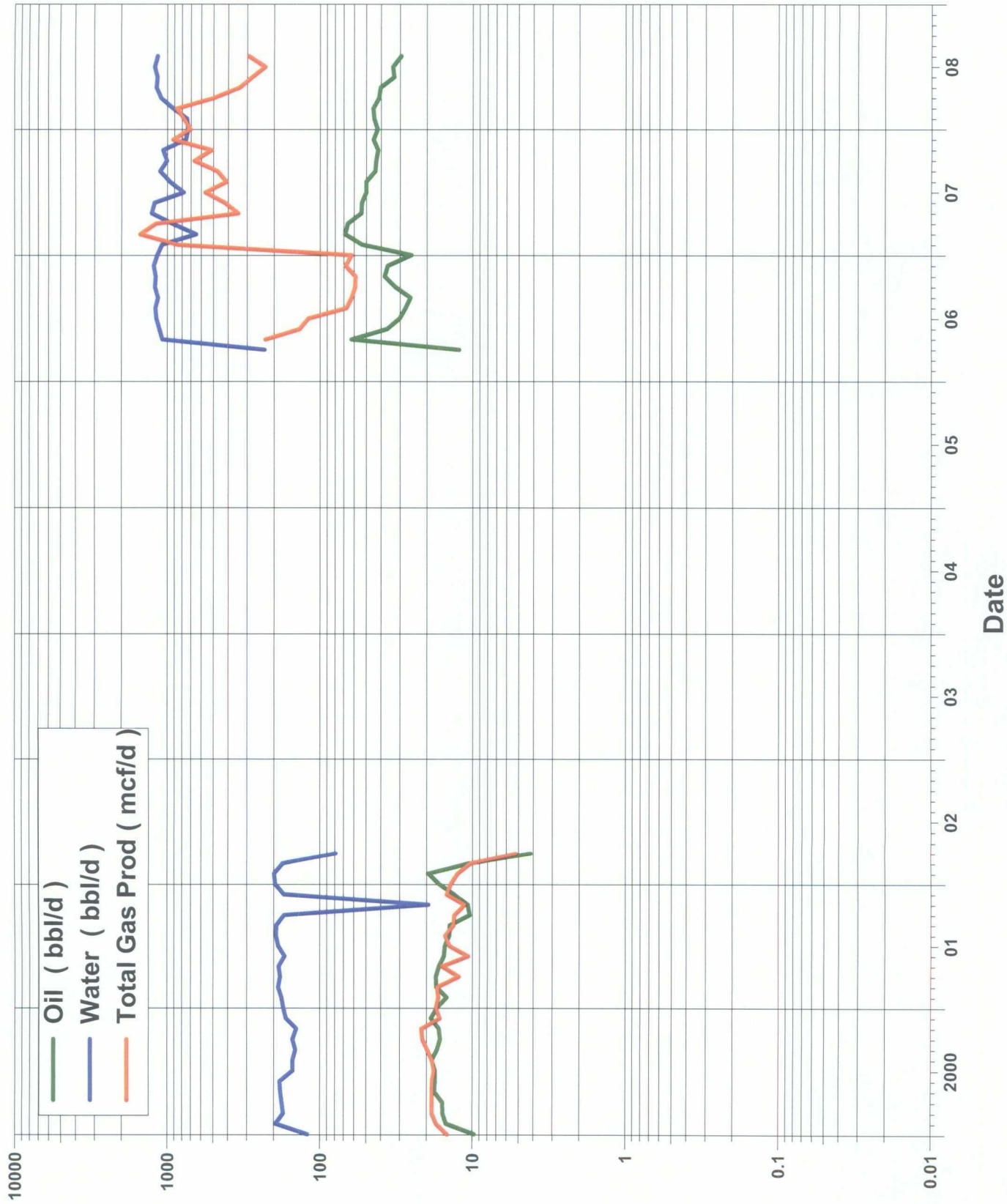
North Hobbs Unit 19121



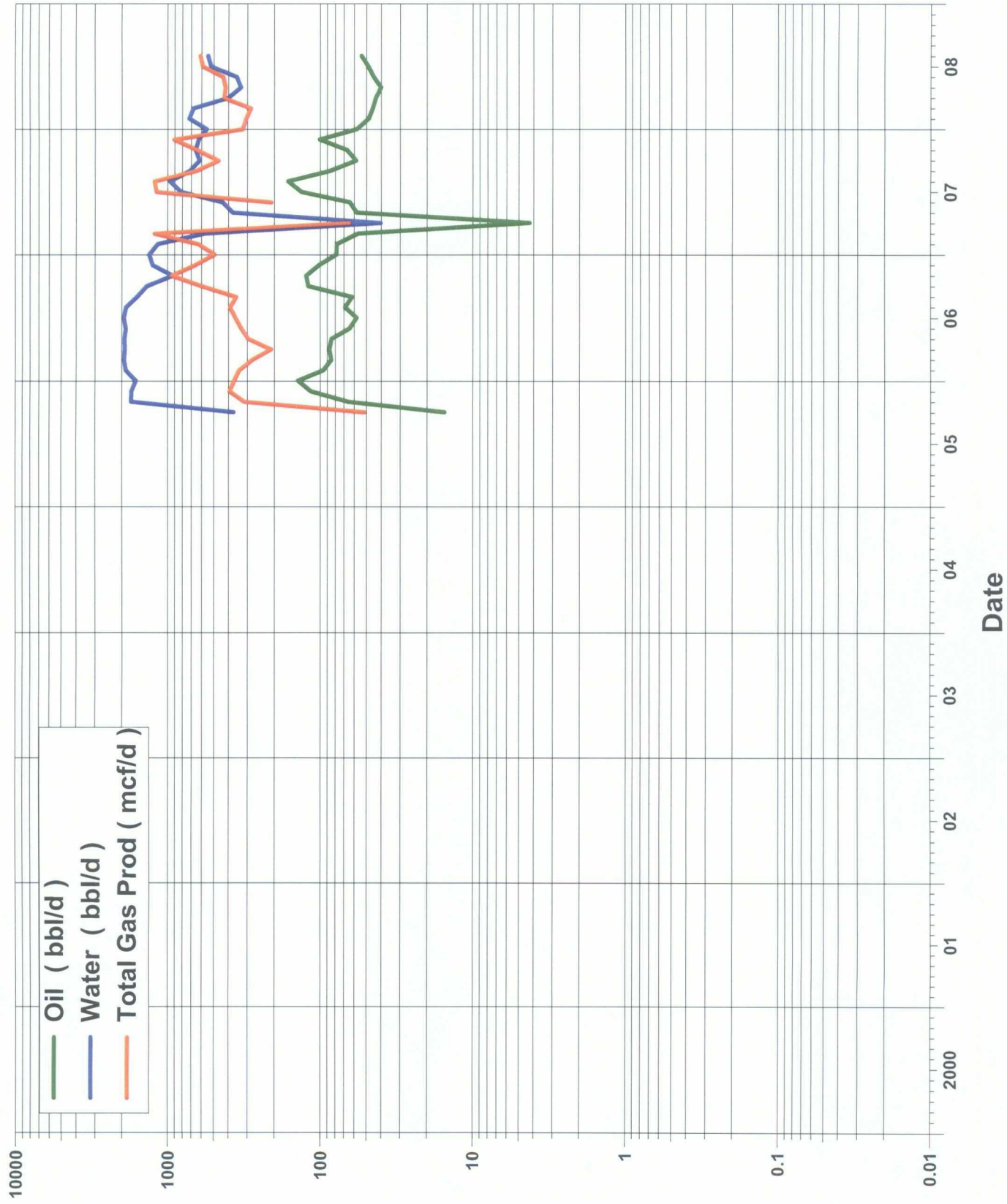
North Hobbs Unit 28121



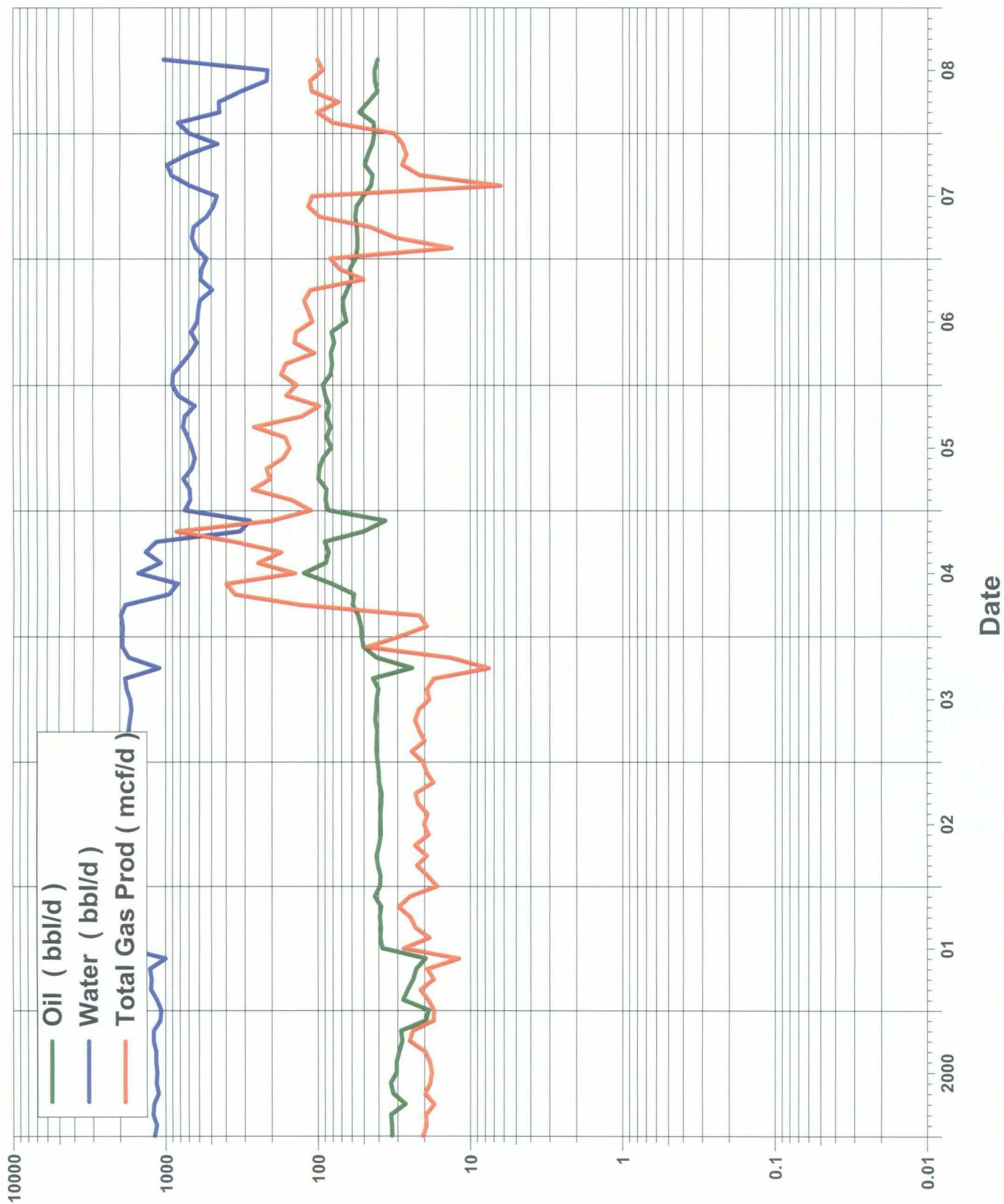
North Hobbs Unit 29121



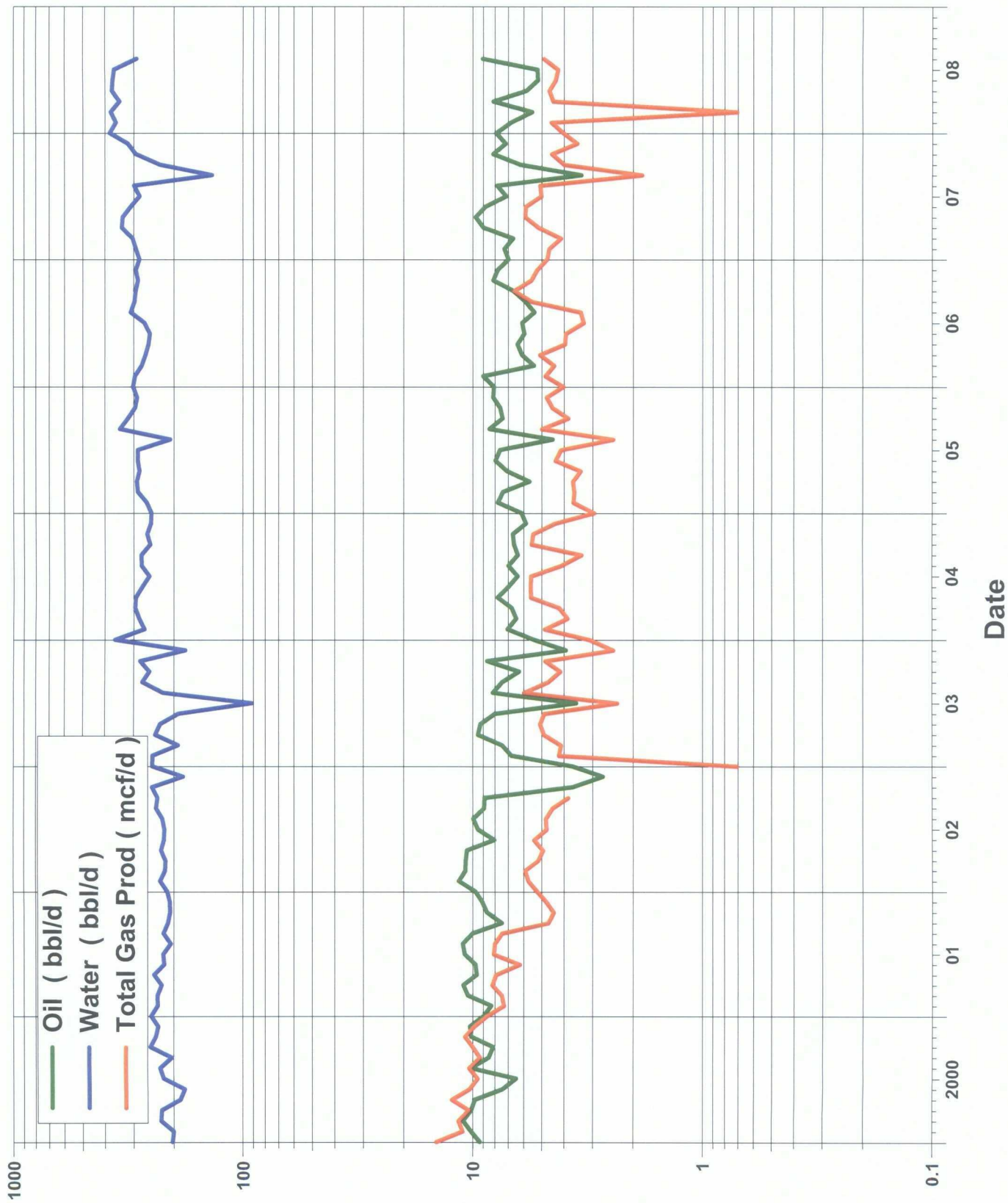
North Hobbs Unit 30121



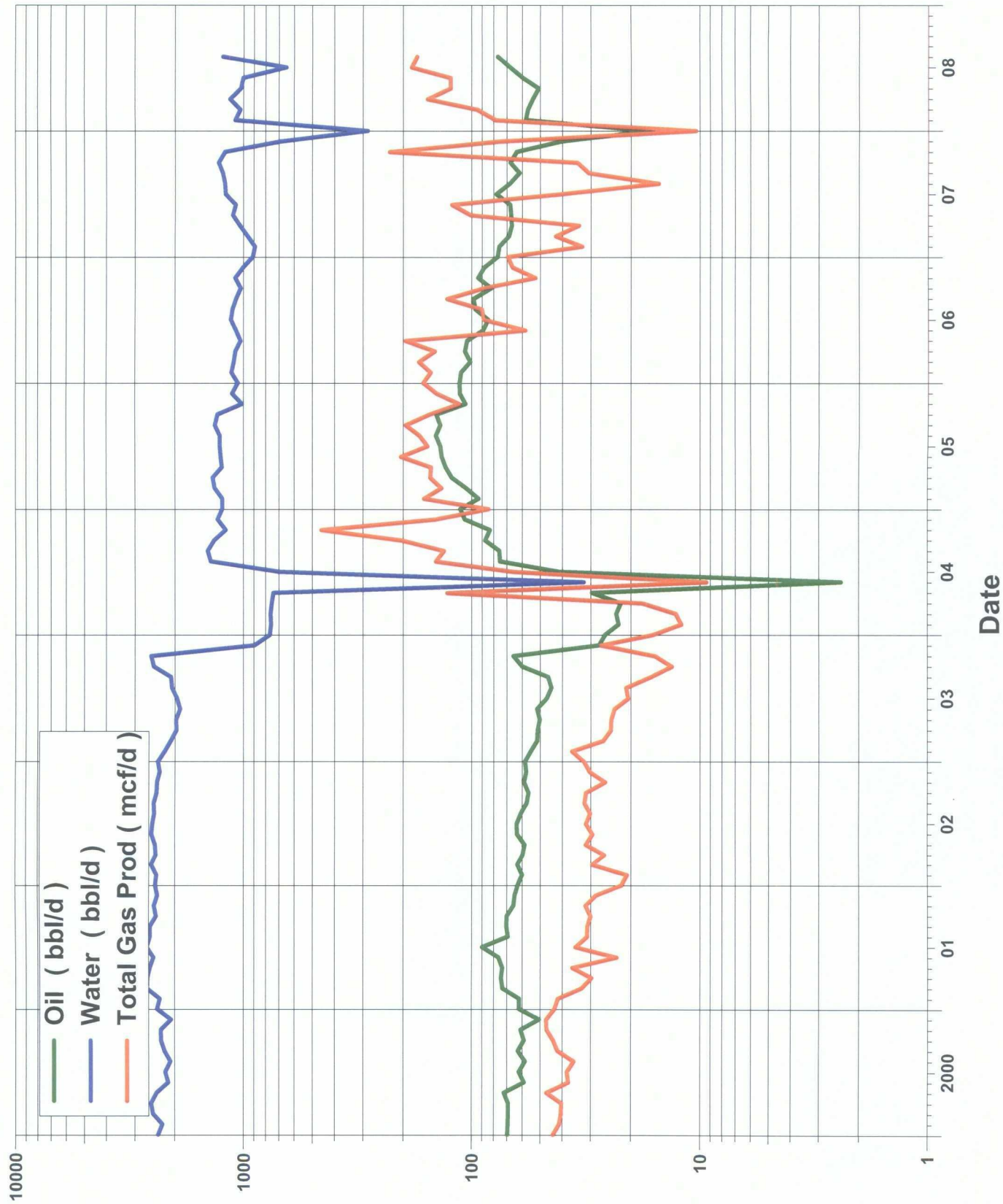
North Hobbs Unit 33121



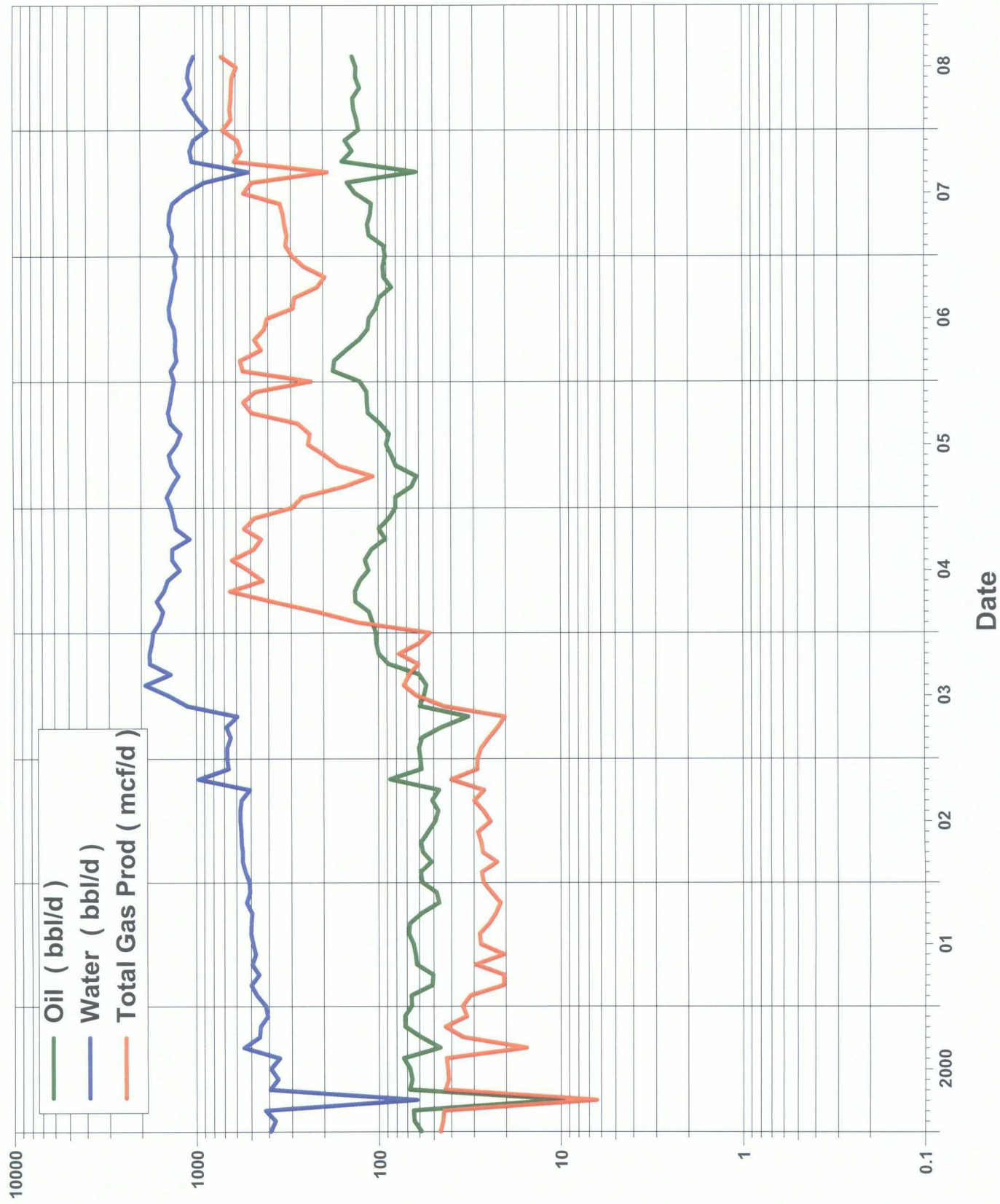
North Hobbs Unit 28122



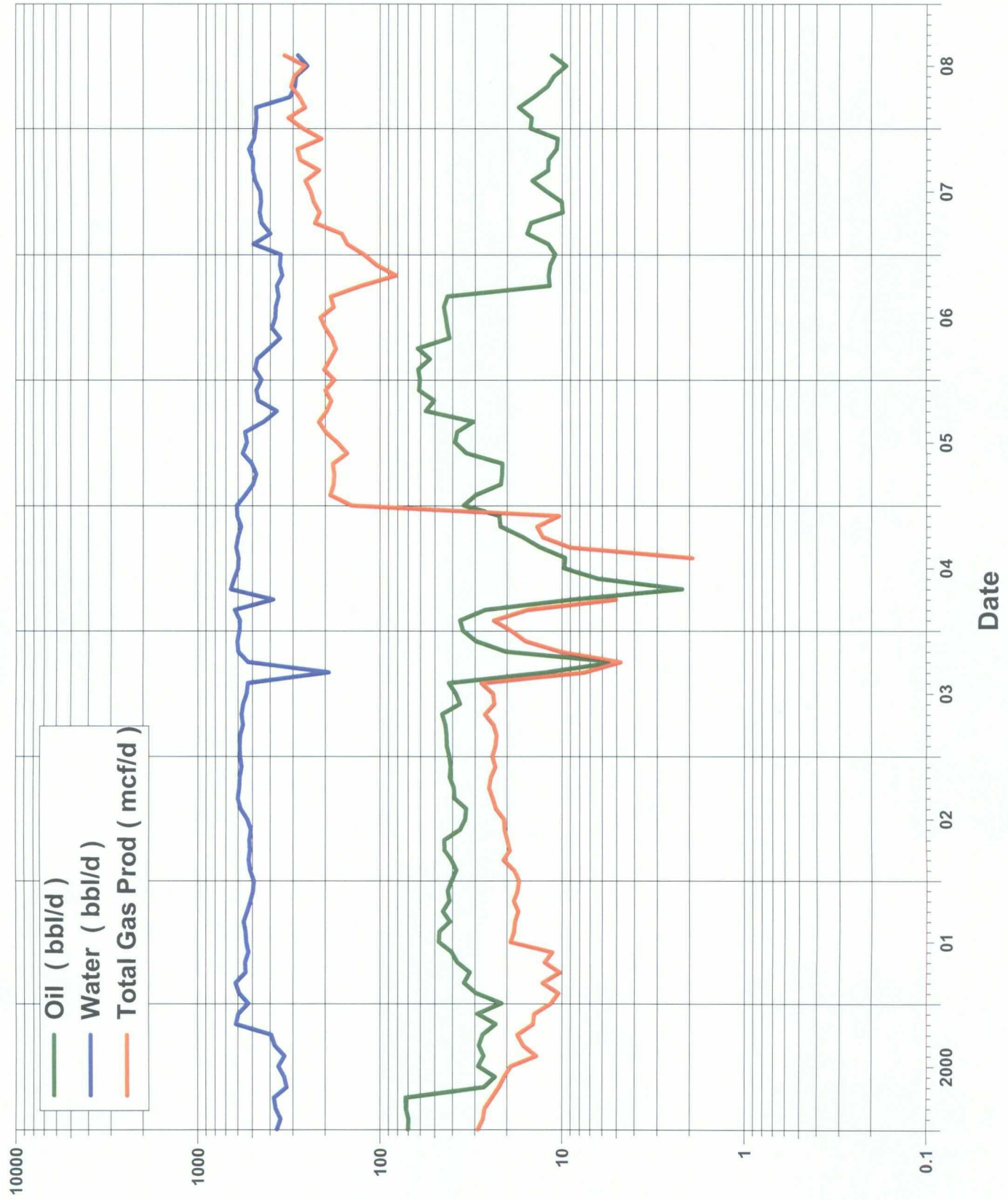
North Hobbs Unit 33123



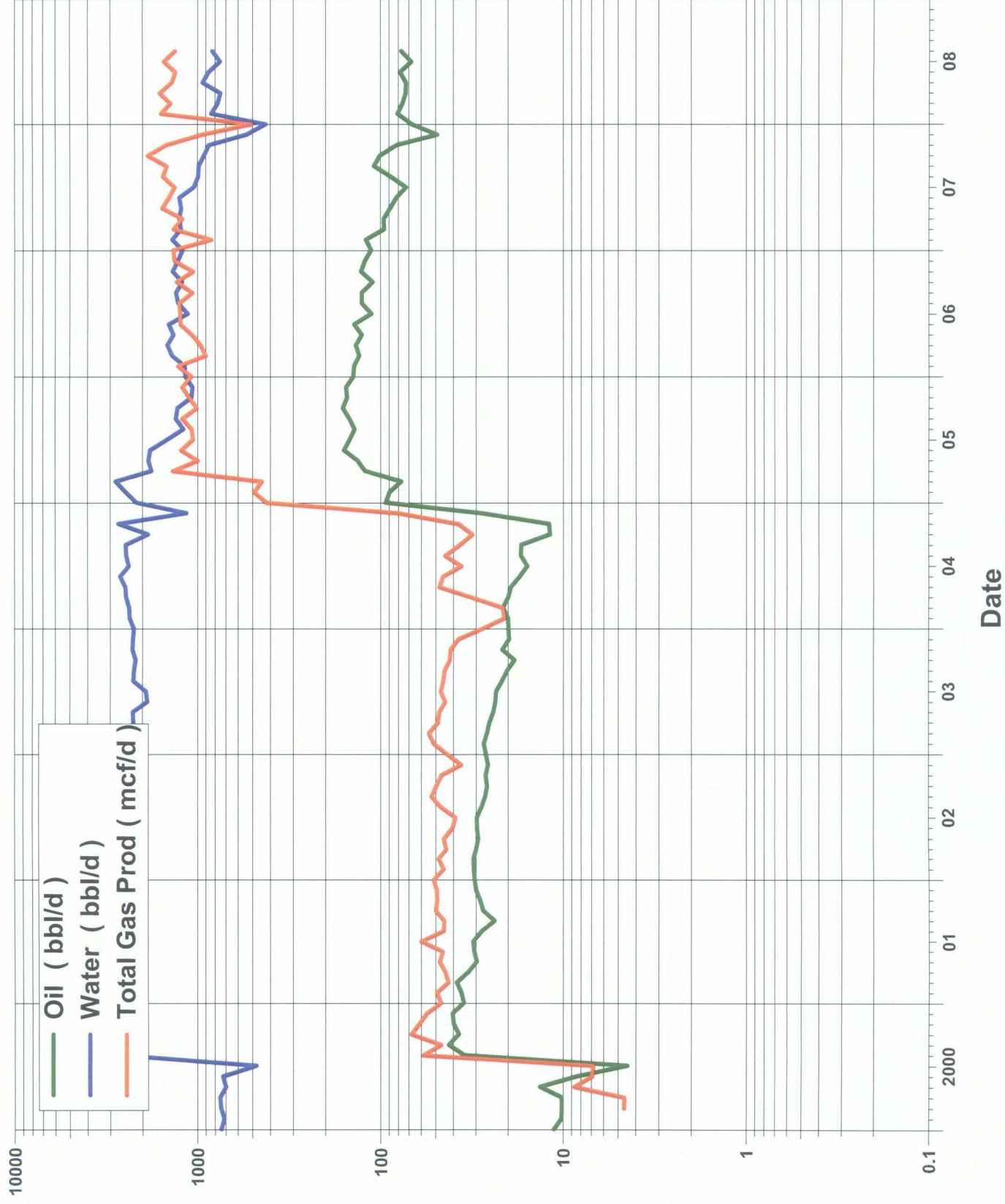
North Hobbs Unit 29131



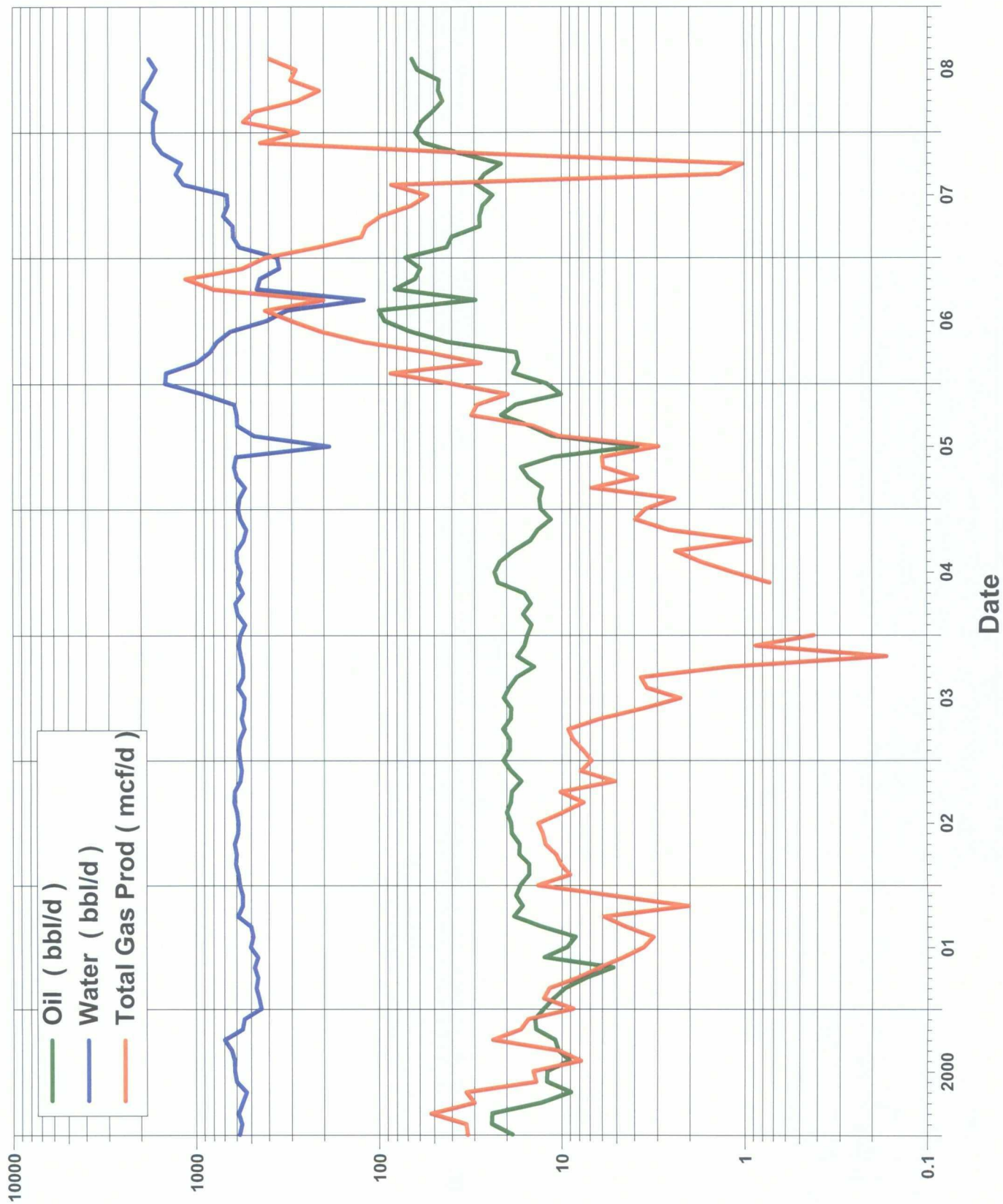
North Hobbs Unit 28132



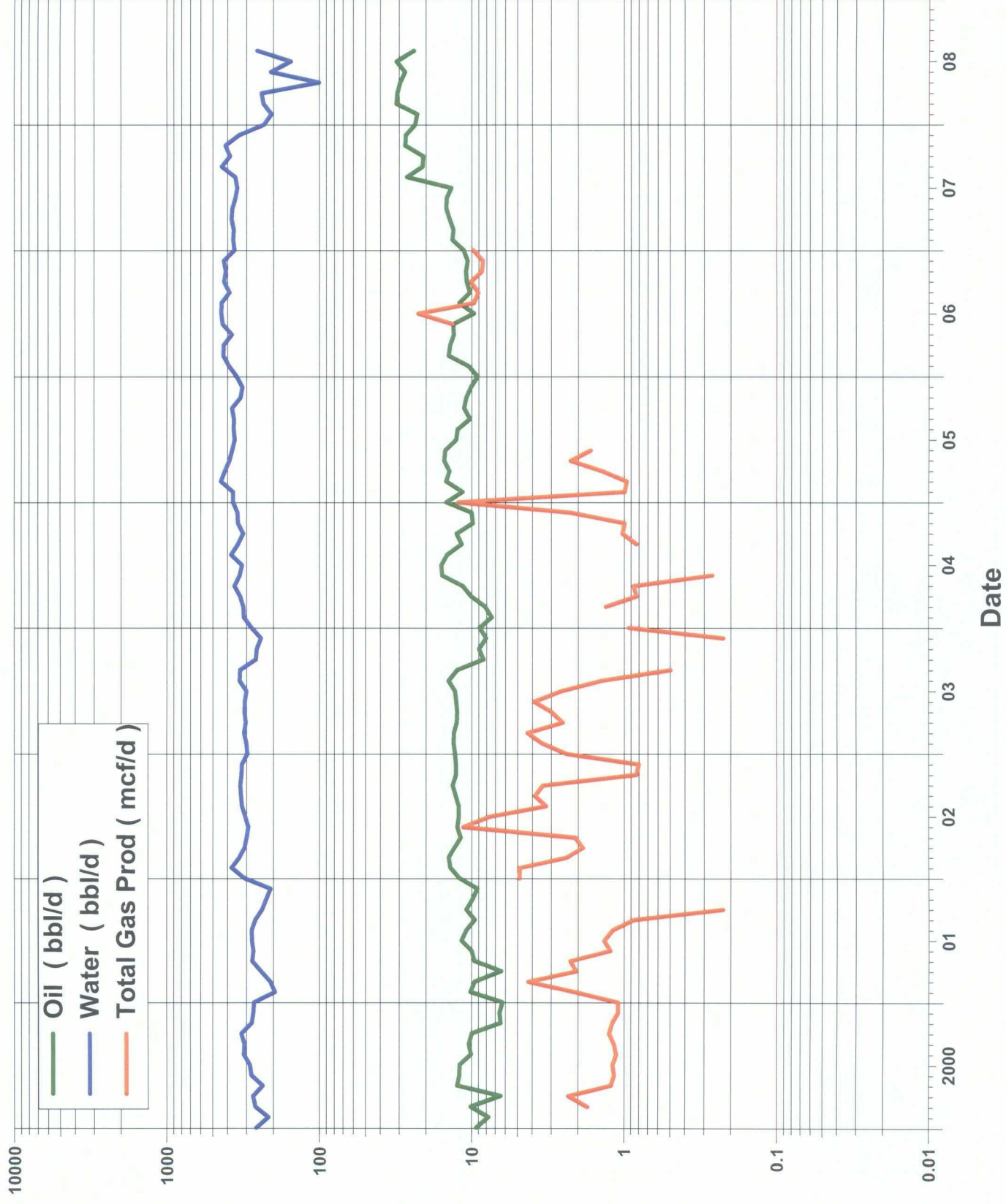
North Hobbs Unit 24141



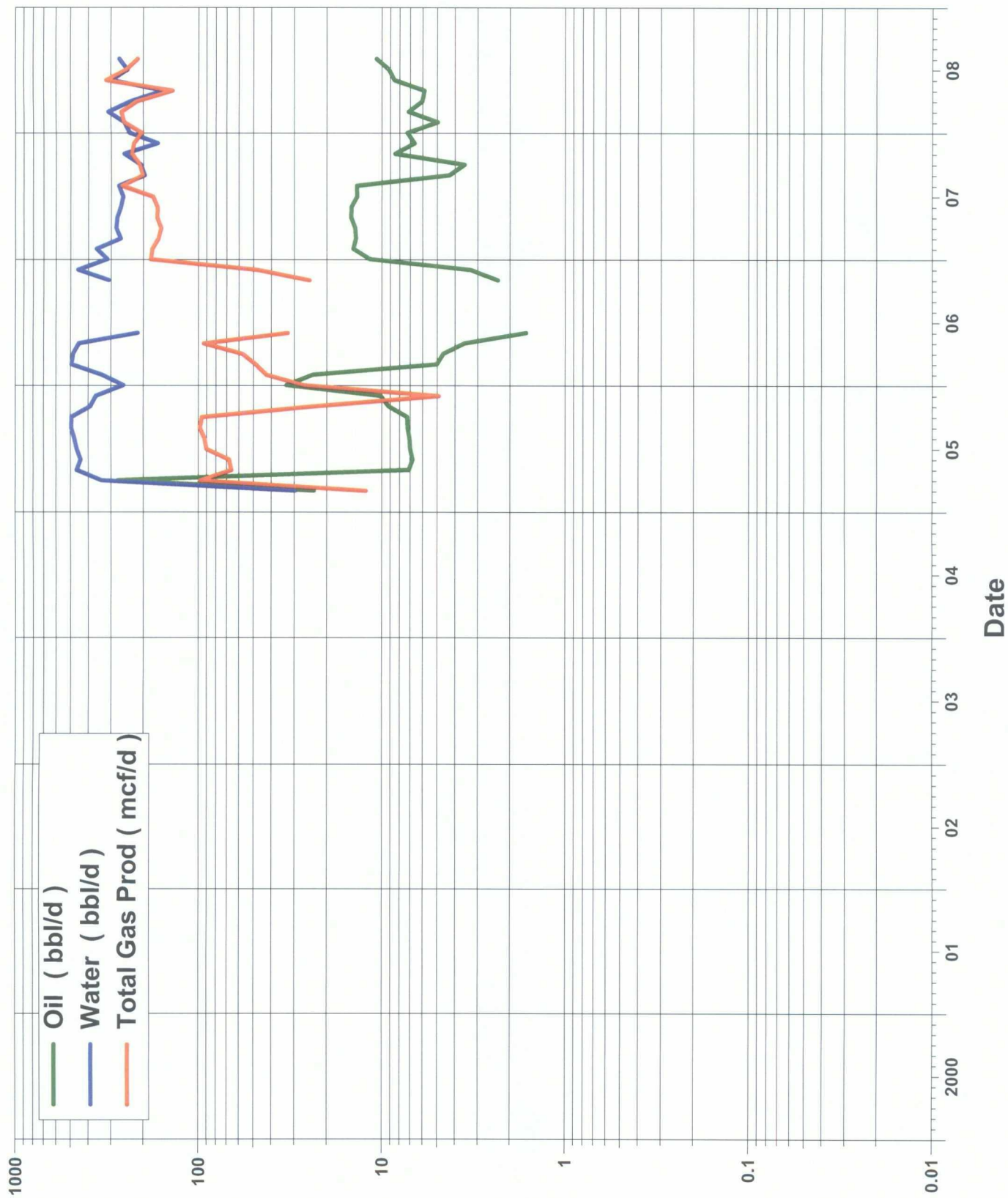
North Hobbs Unit 19141



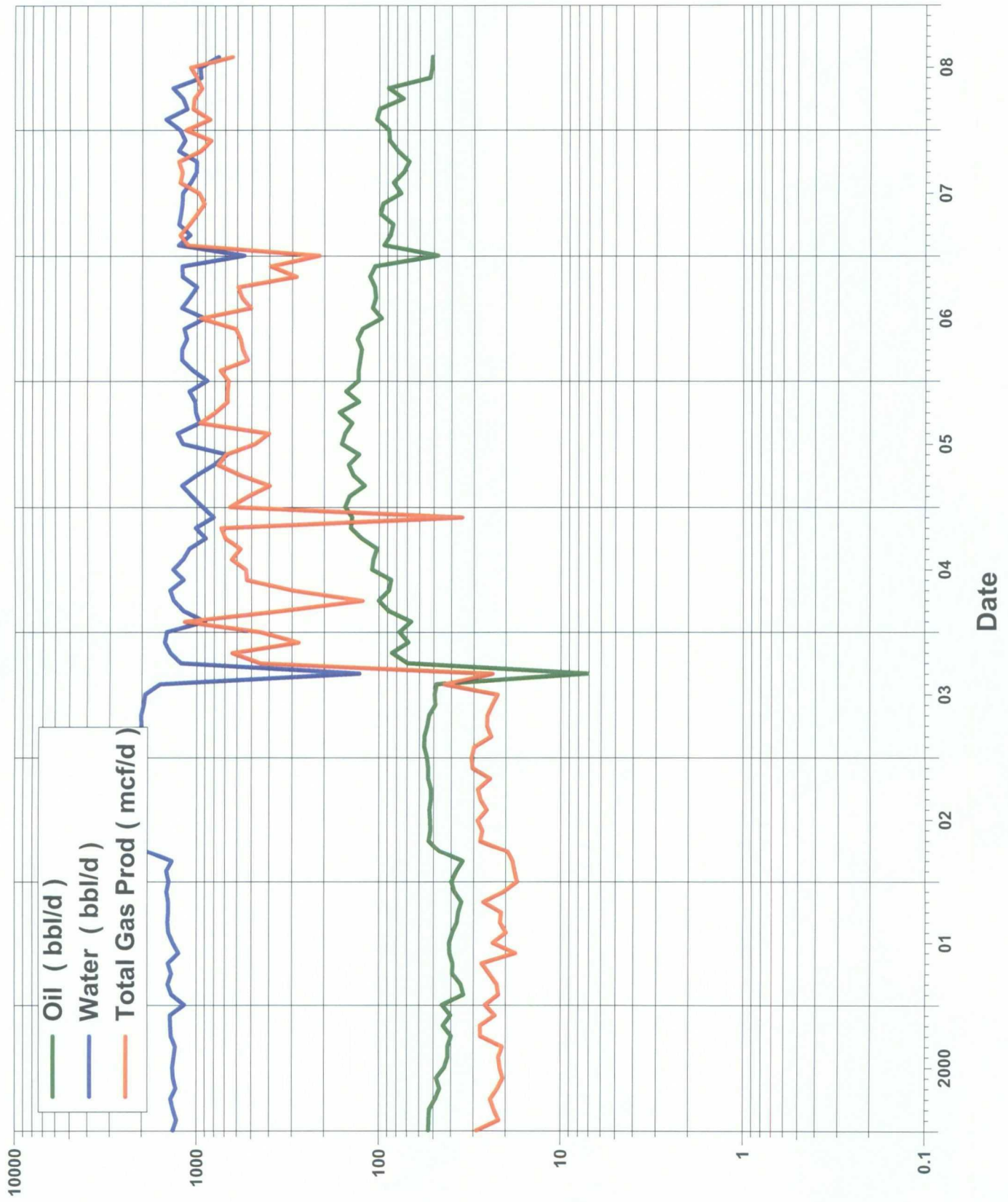
North Hobbs Unit 20141



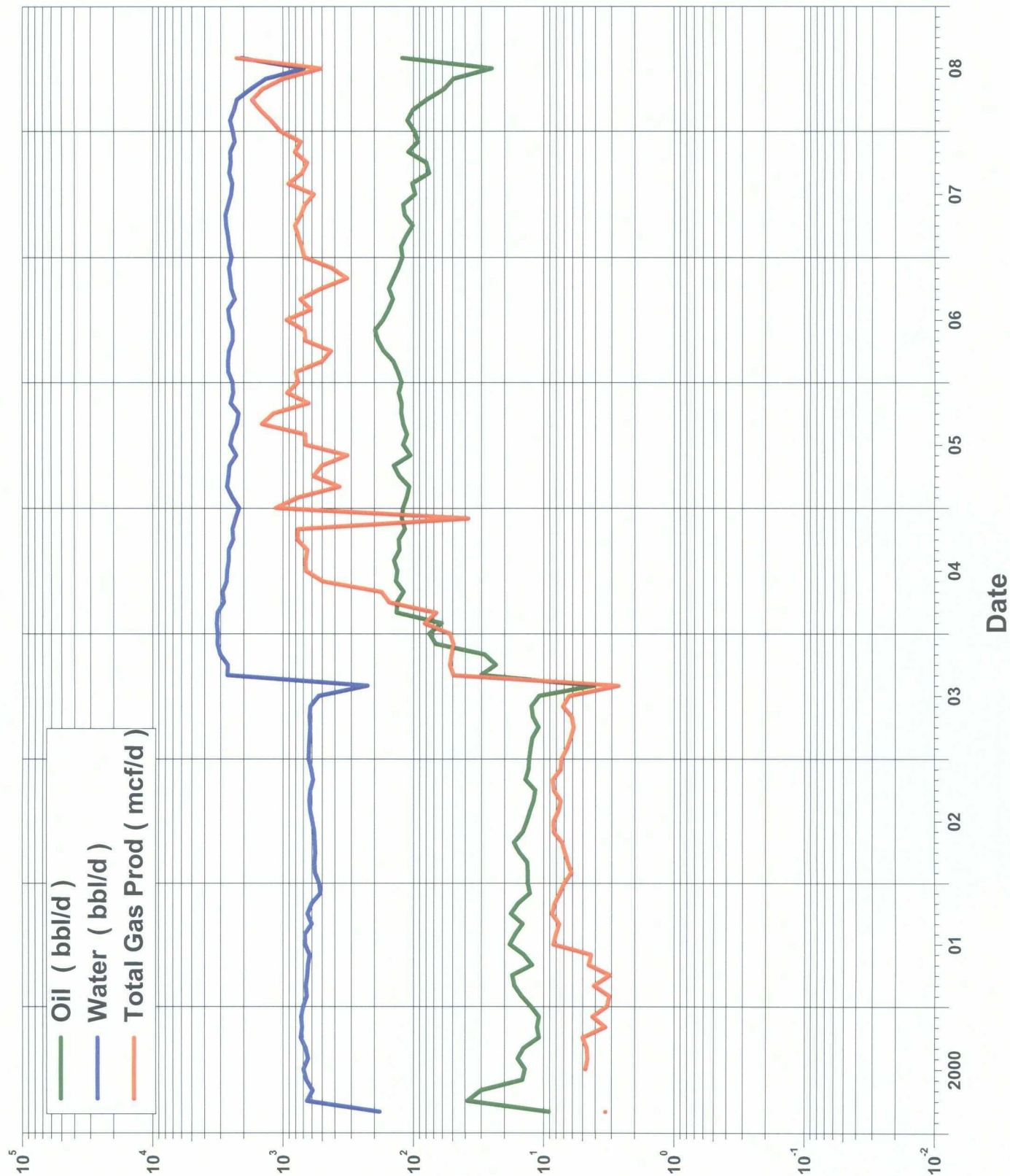
North Hobbs Unit 30141



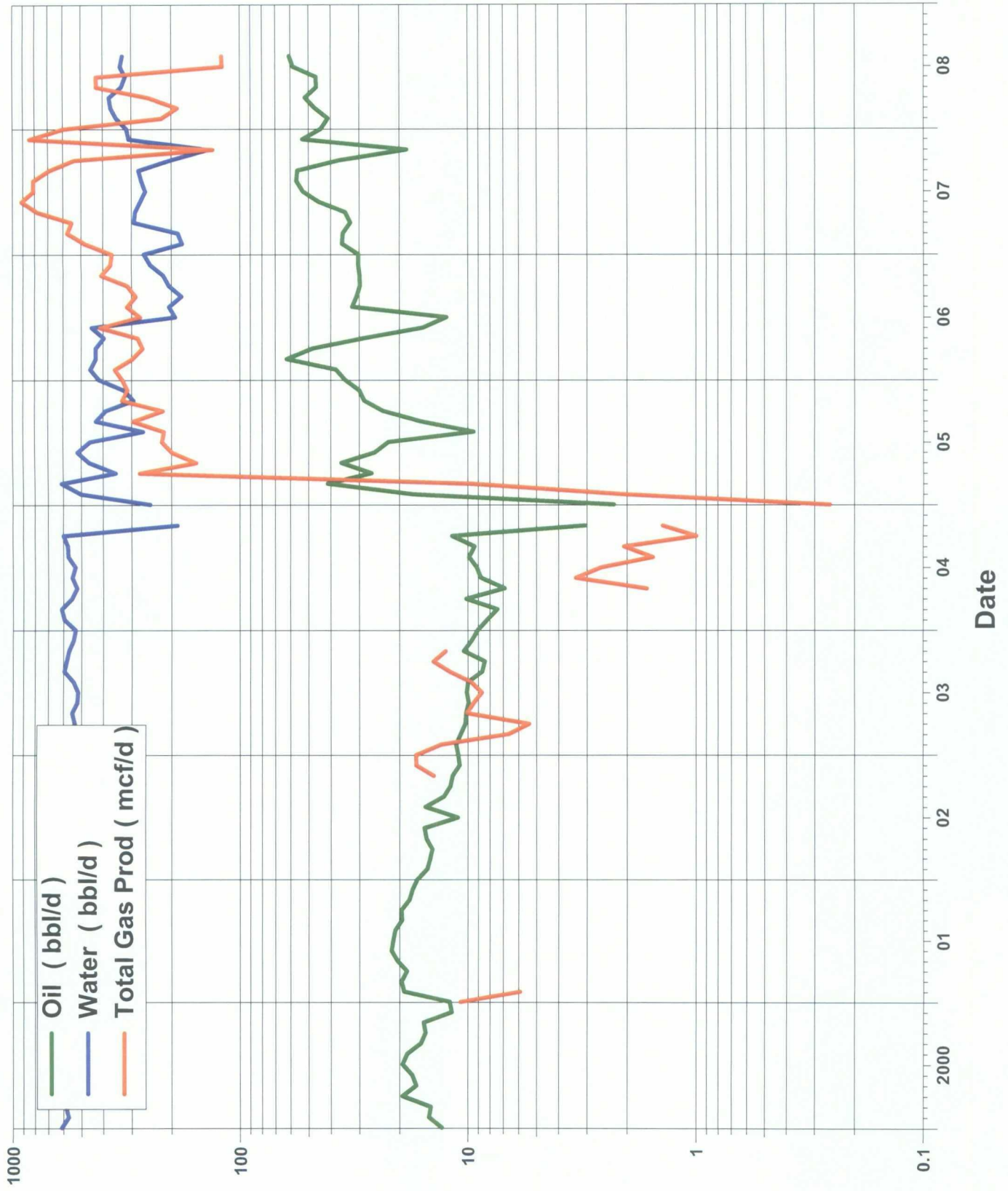
North Hobbs Unit 28141



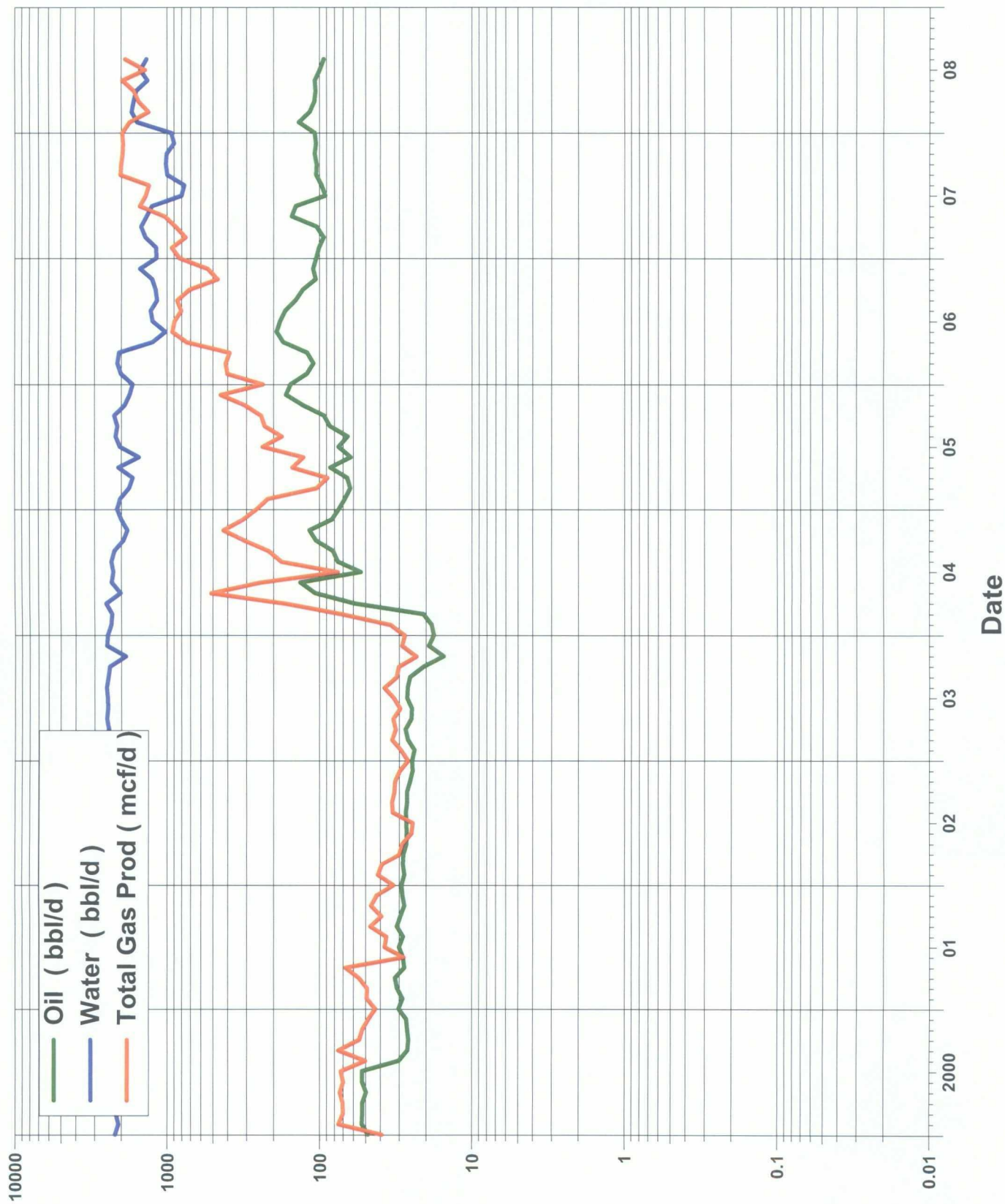
North Hobbs Unit 28142



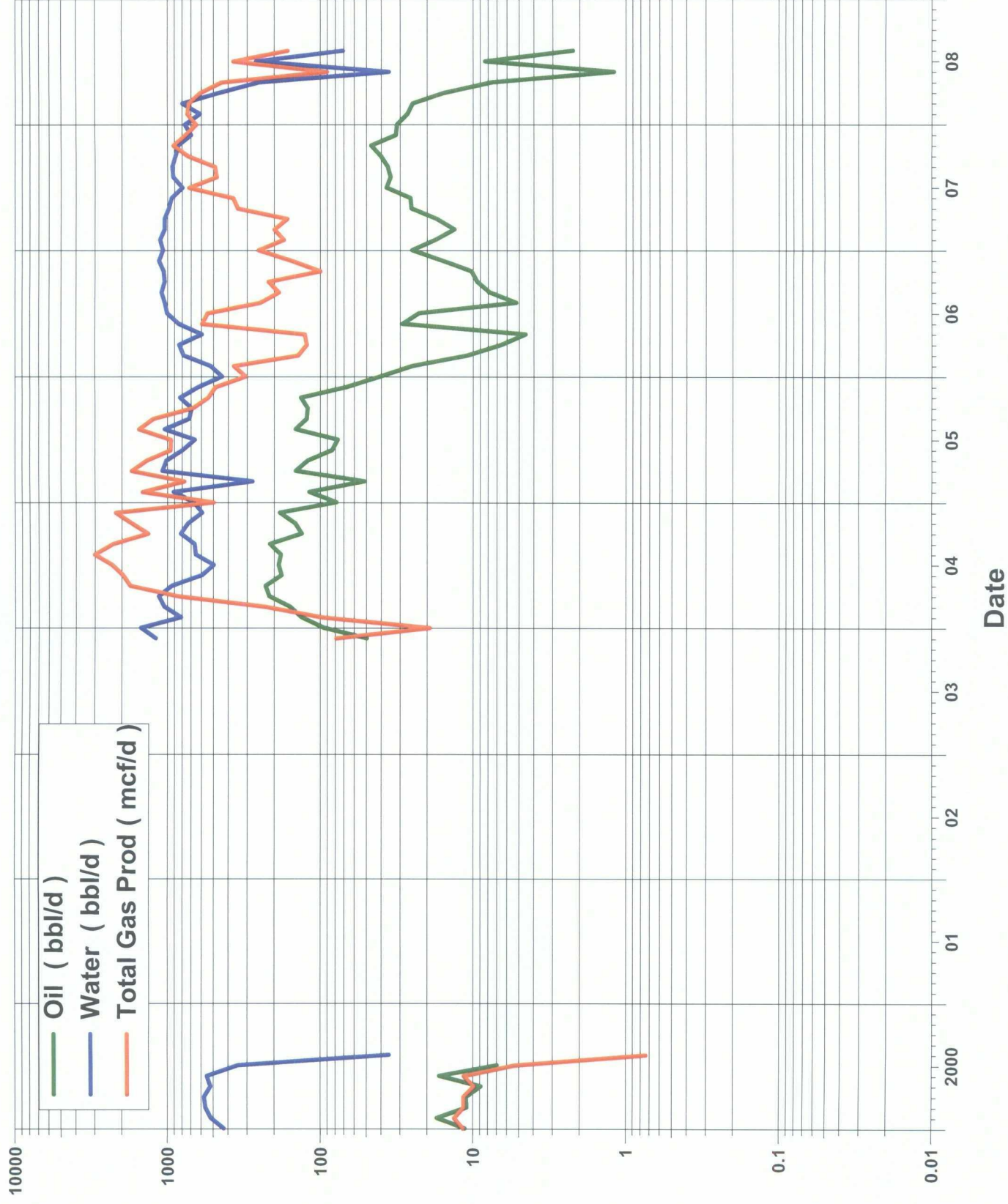
North Hobbs Unit 24211



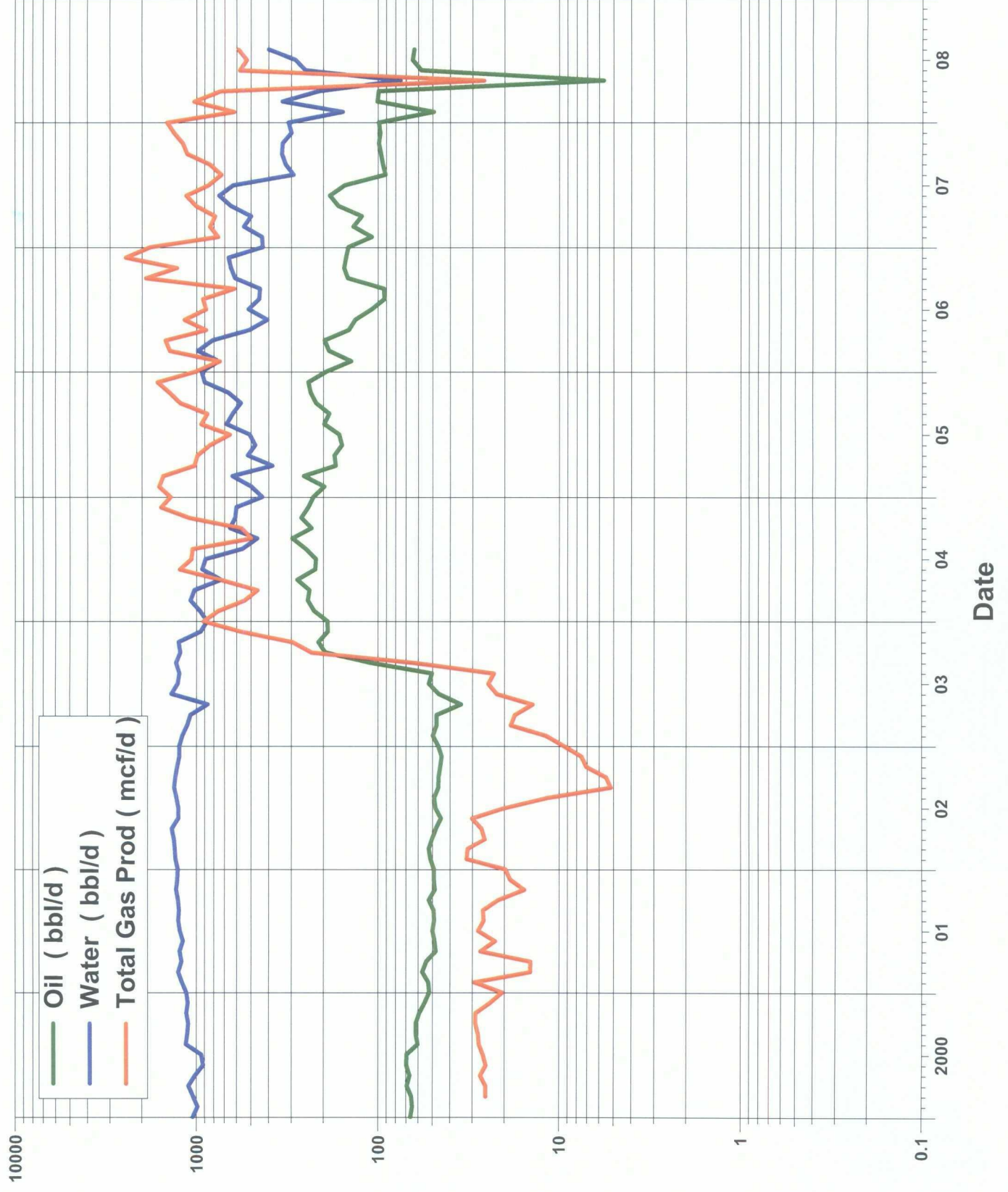
North Hobbs Unit 30211



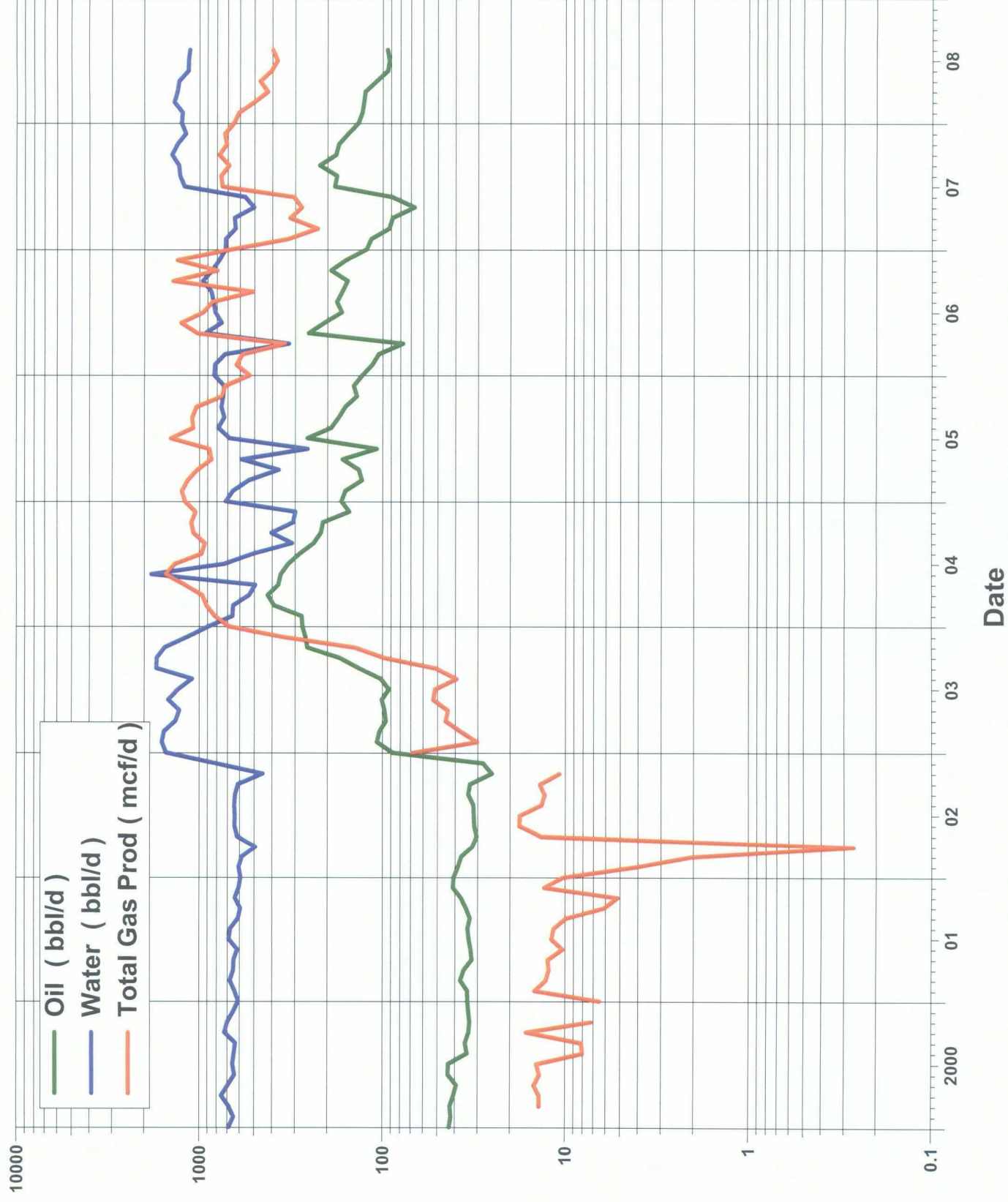
North Hobbs Unit 31211



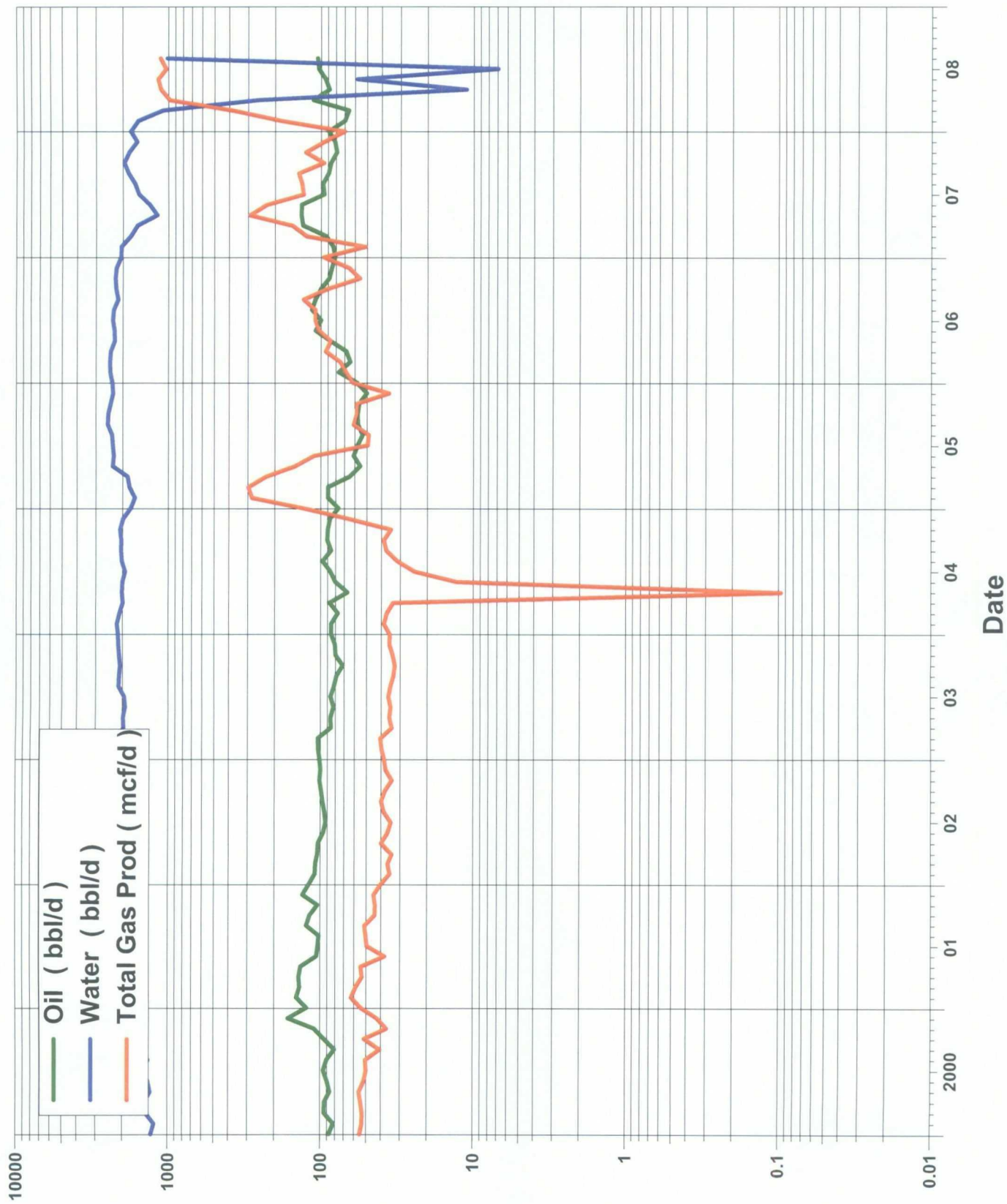
North Hobbs Unit 32211



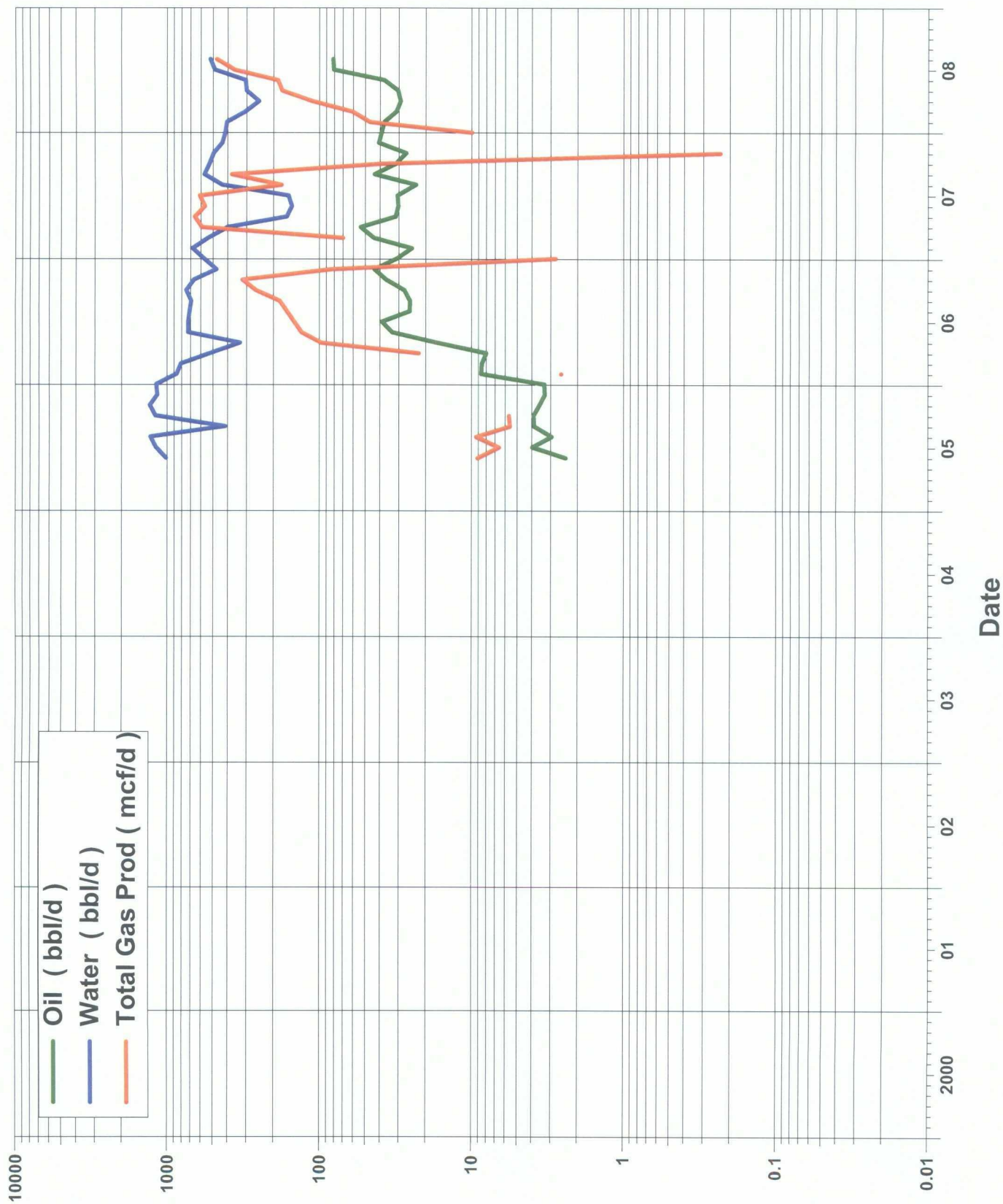
North Hobbs Unit 32212



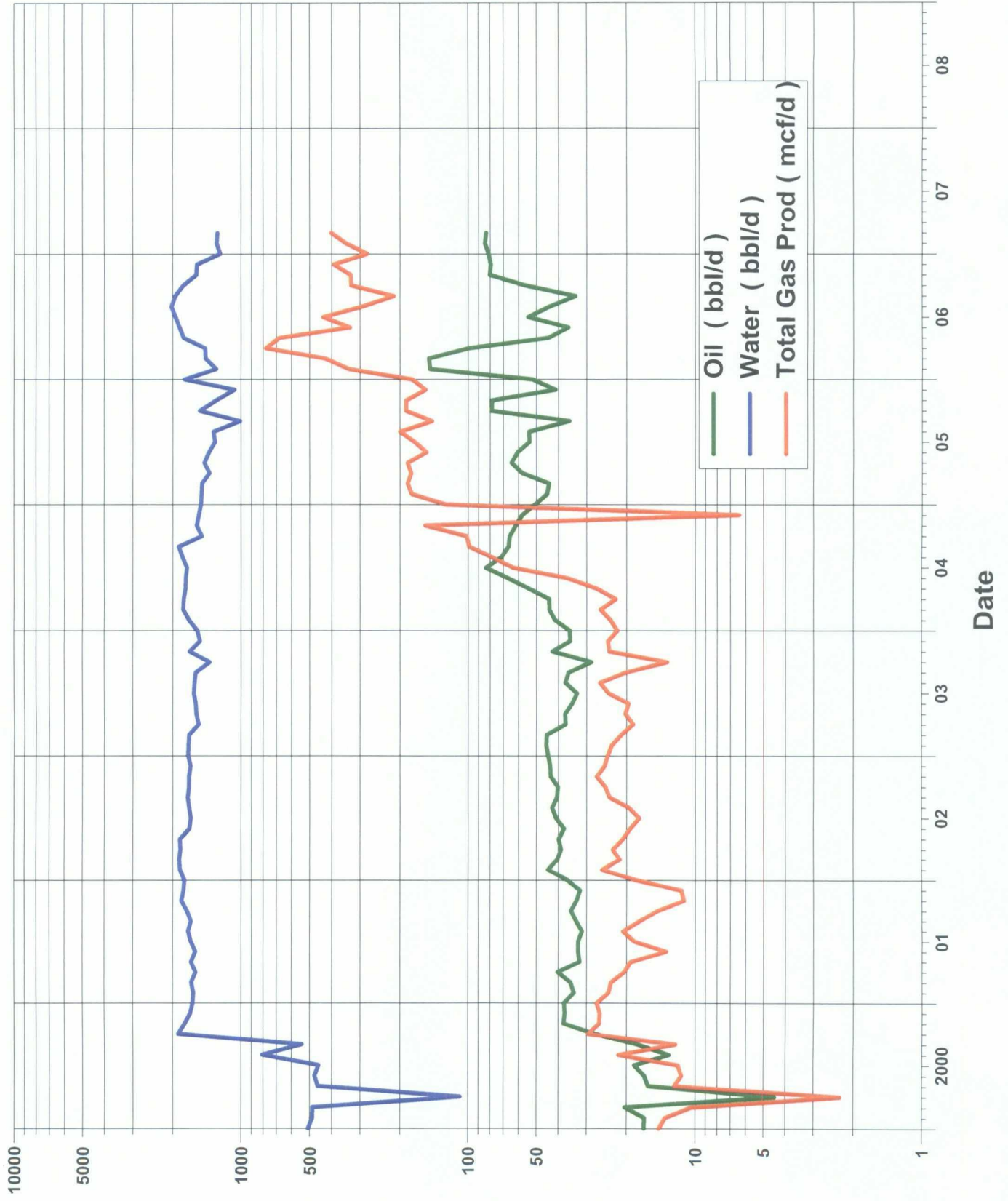
North Hobbs Unit 33213



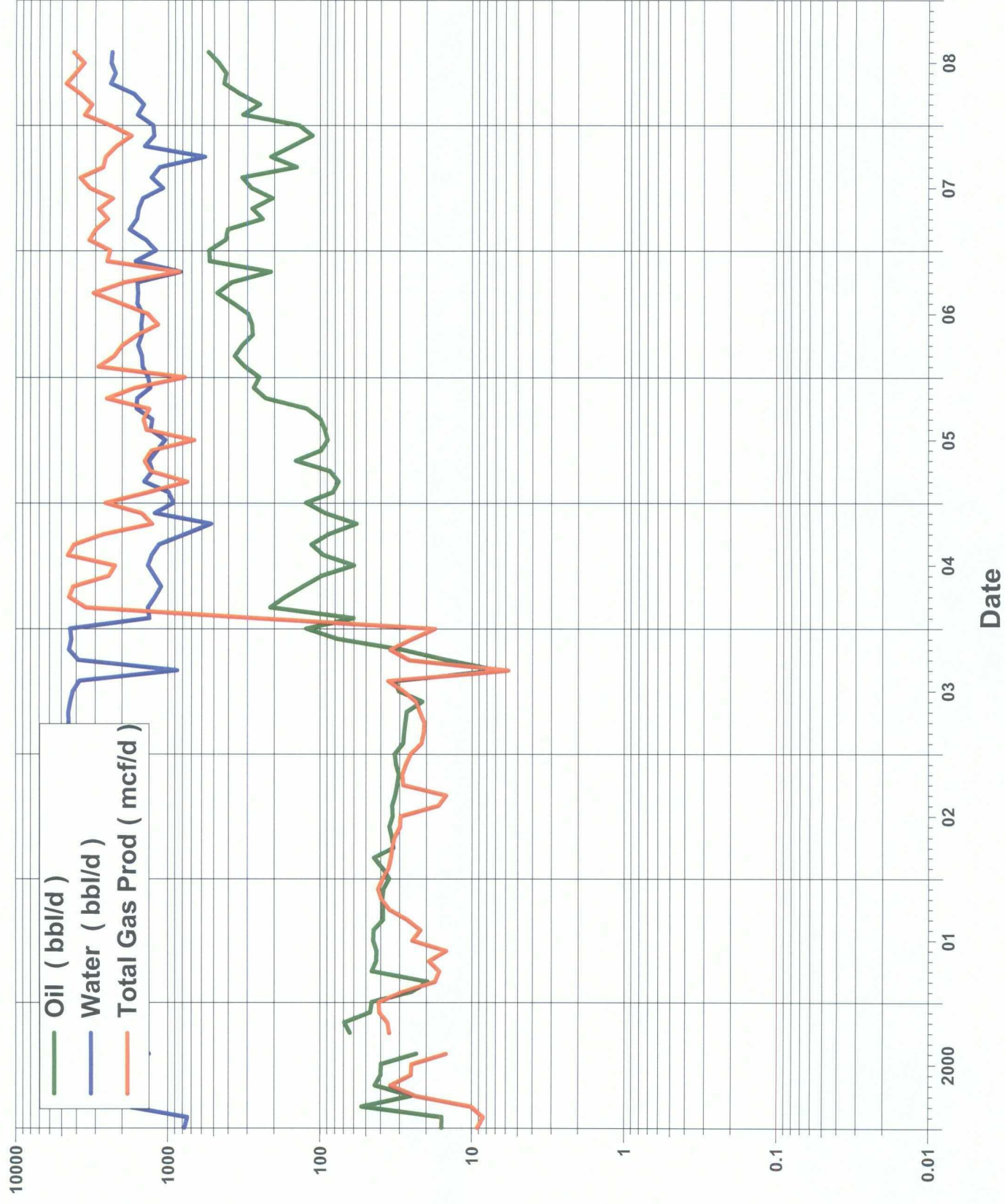
North Hobbs Unit 19221



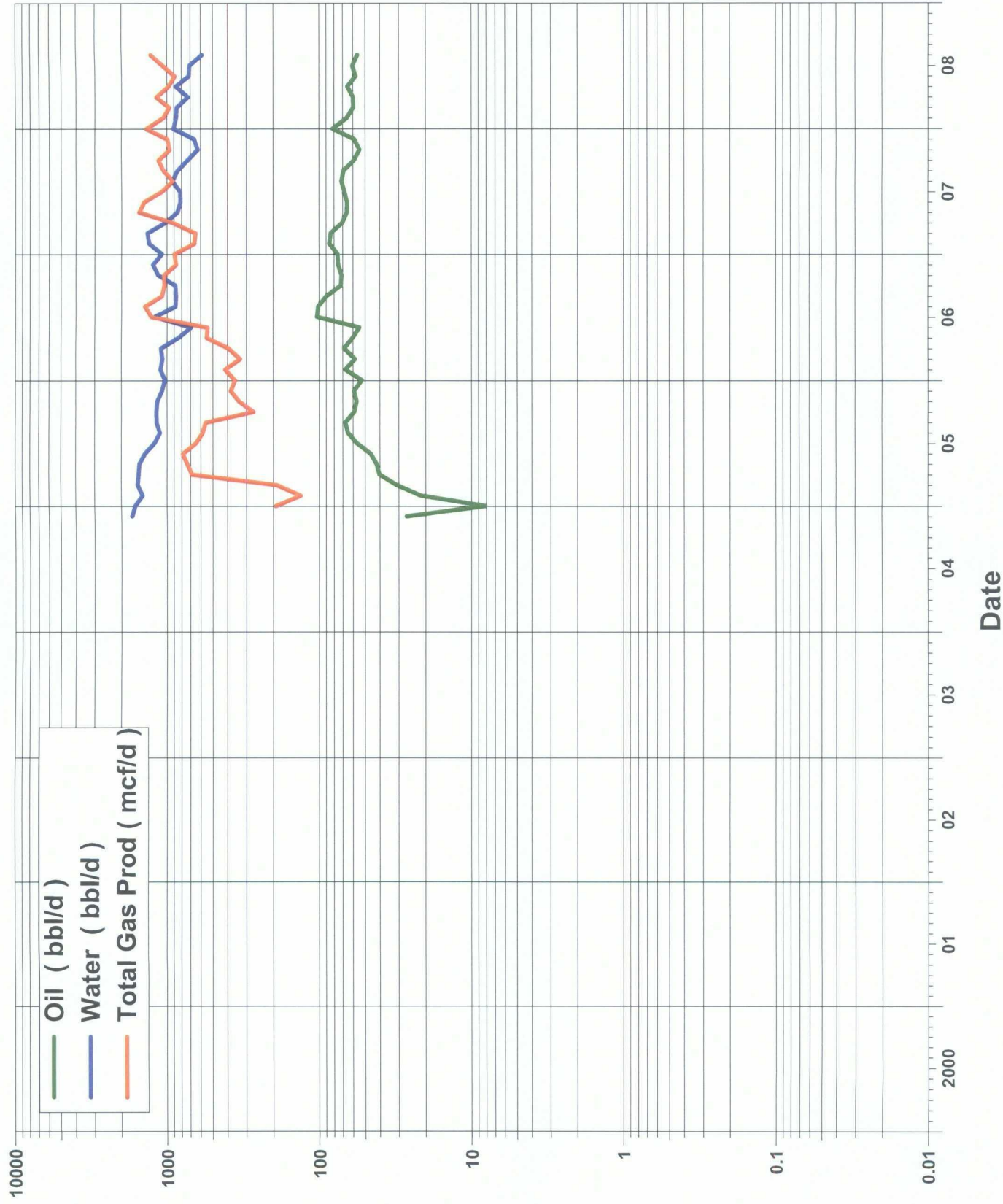
North Hobbs Unit 29221



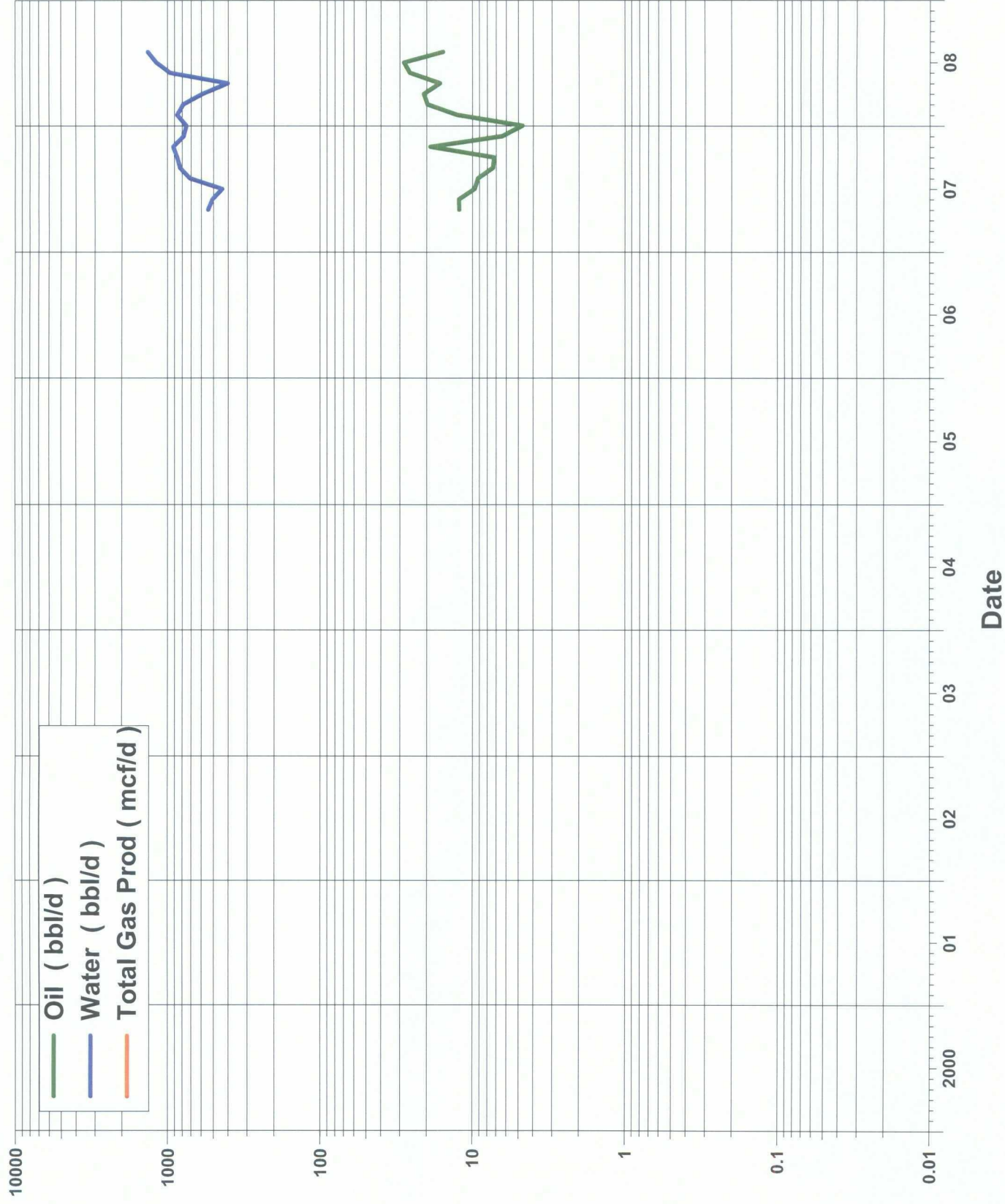
North Hobbs Unit 30221



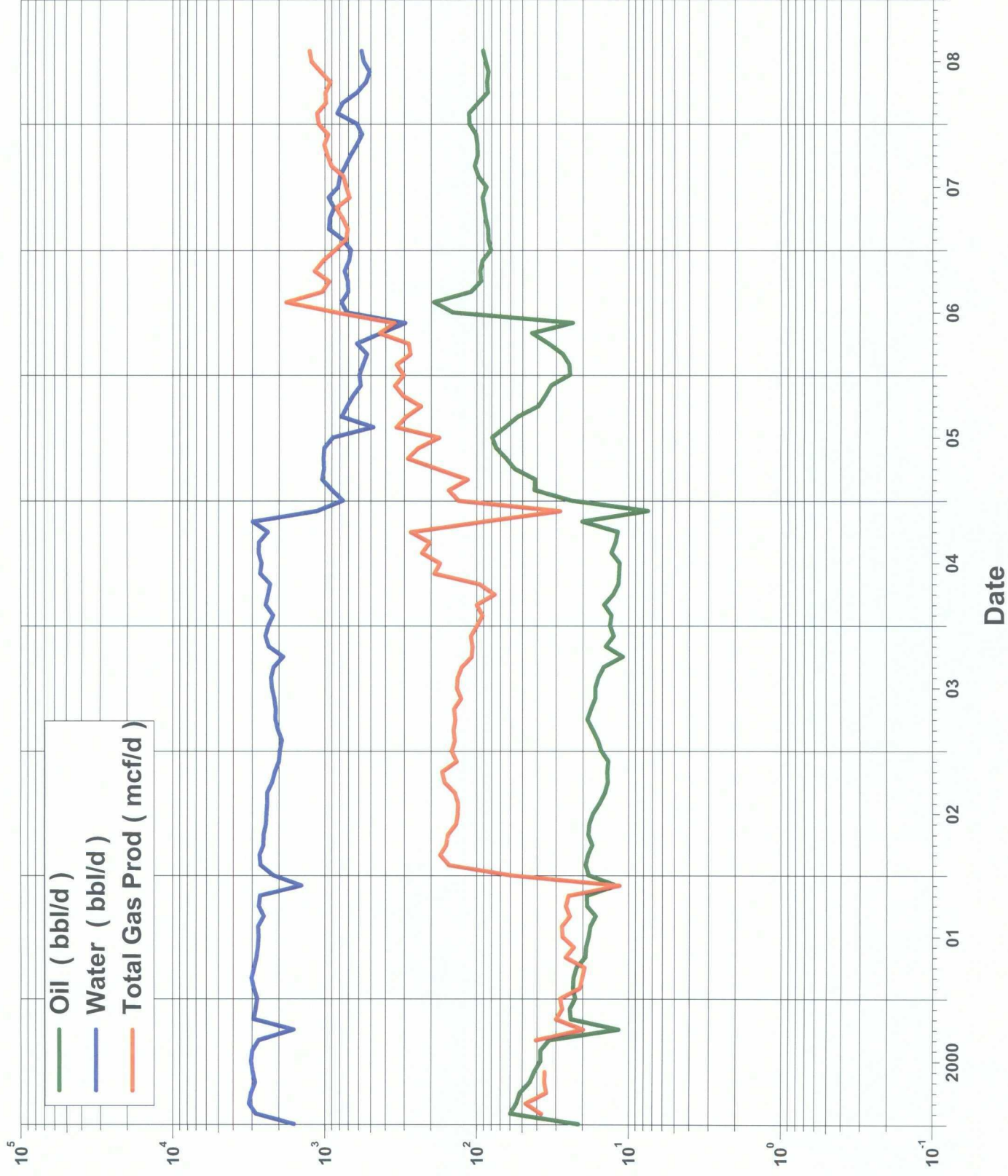
North Hobbs Unit 24221



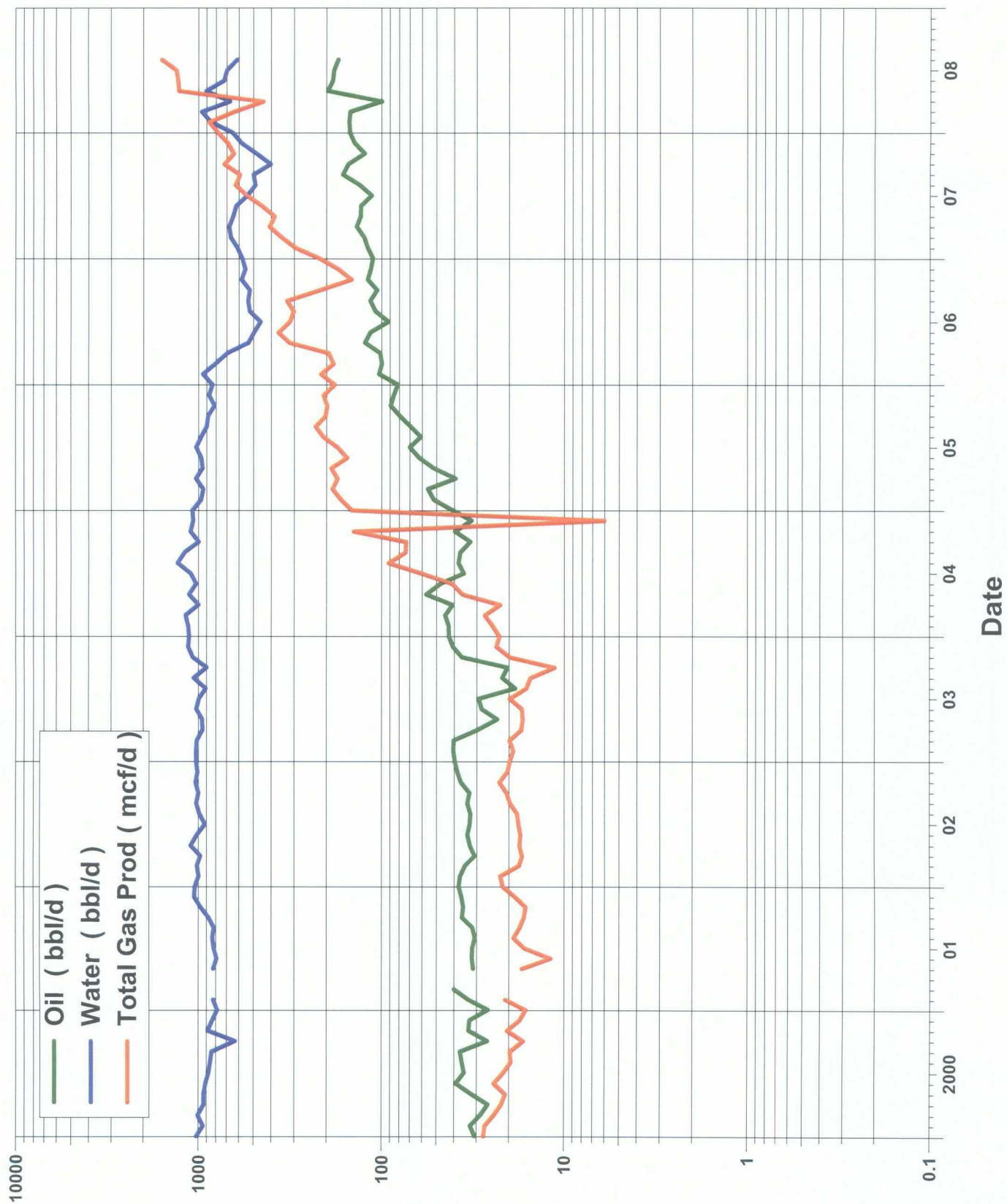
North Hobbs Unit 20231



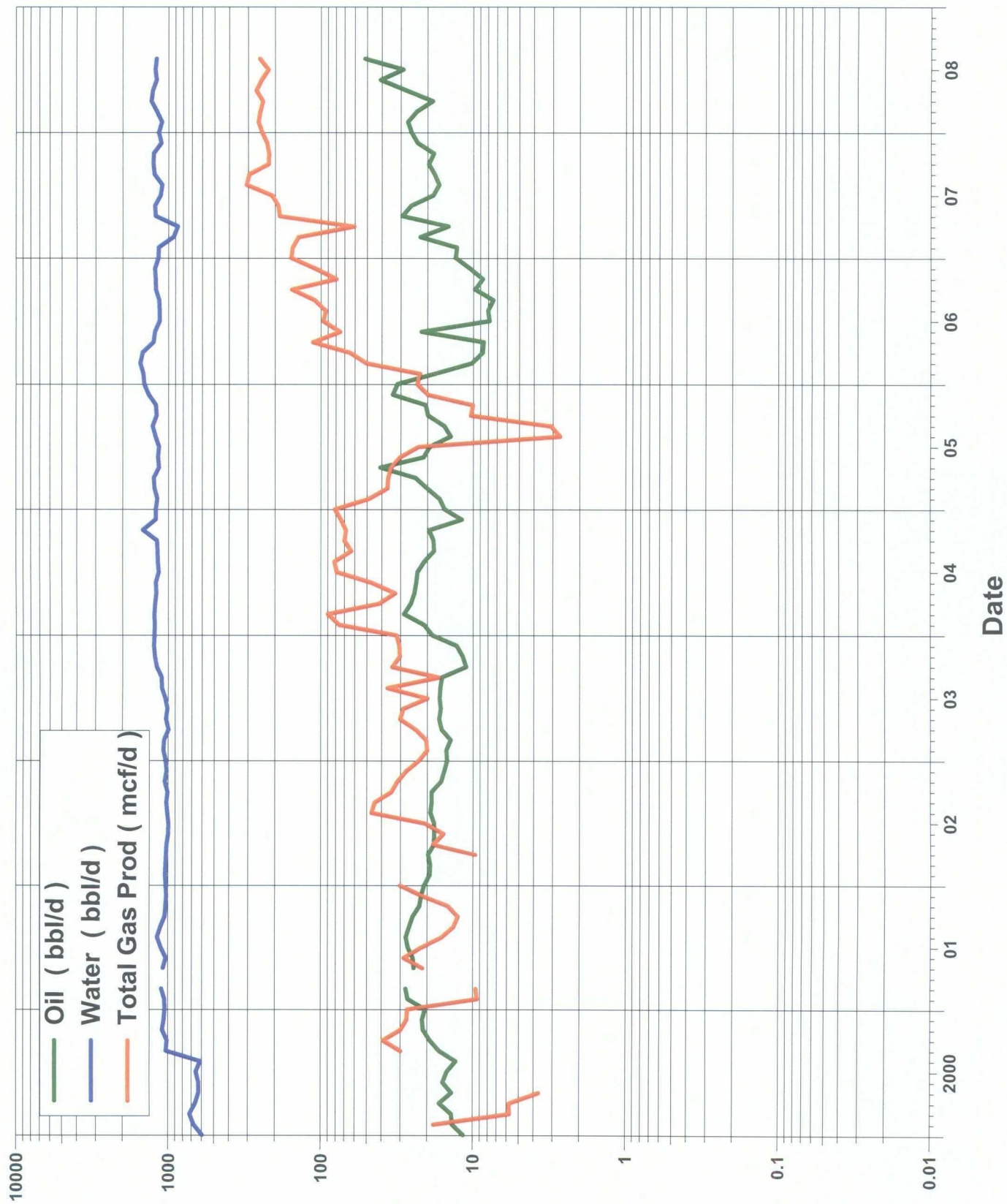
North Hobbs Unit 24231



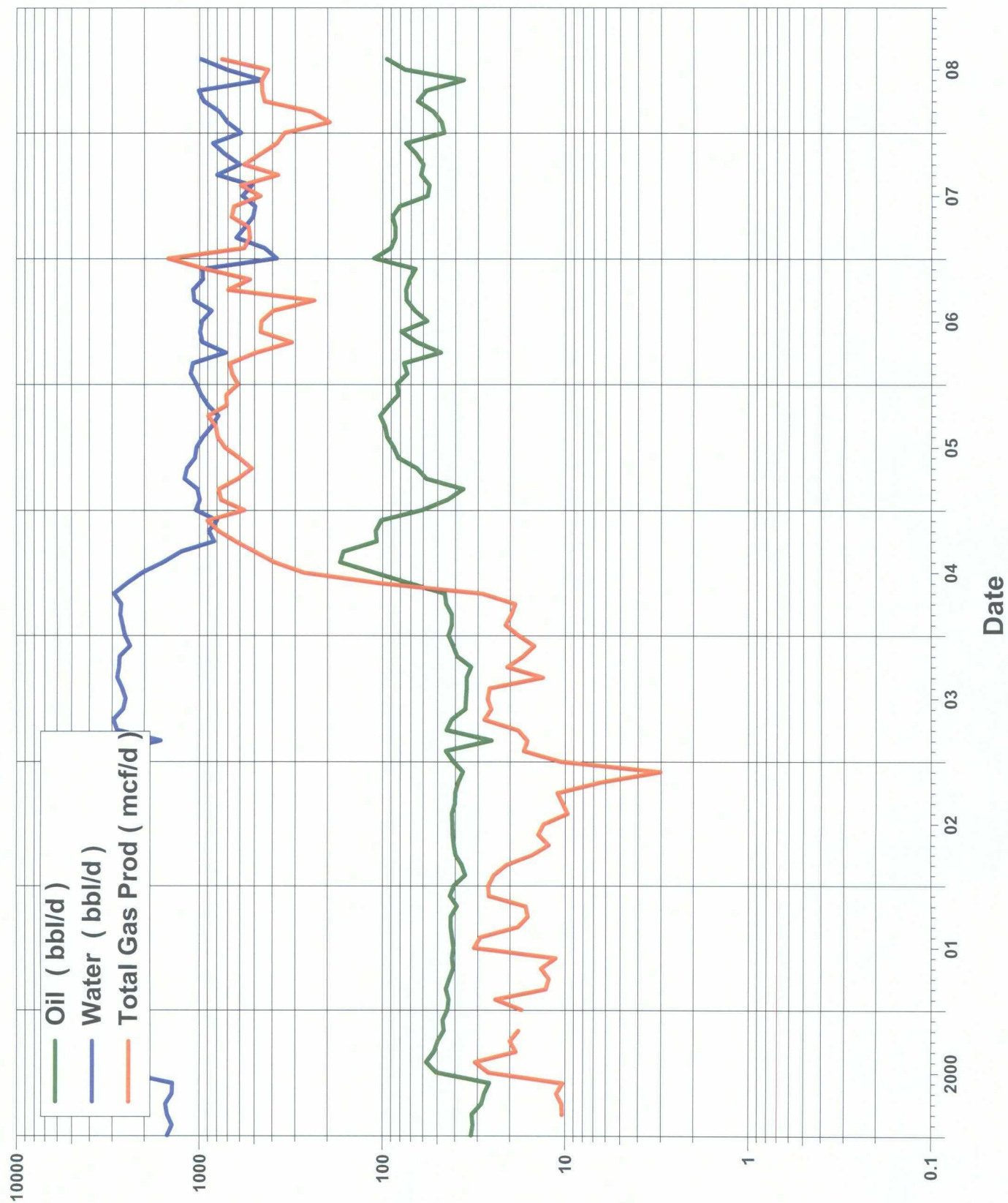
North Hobbs Unit 29231



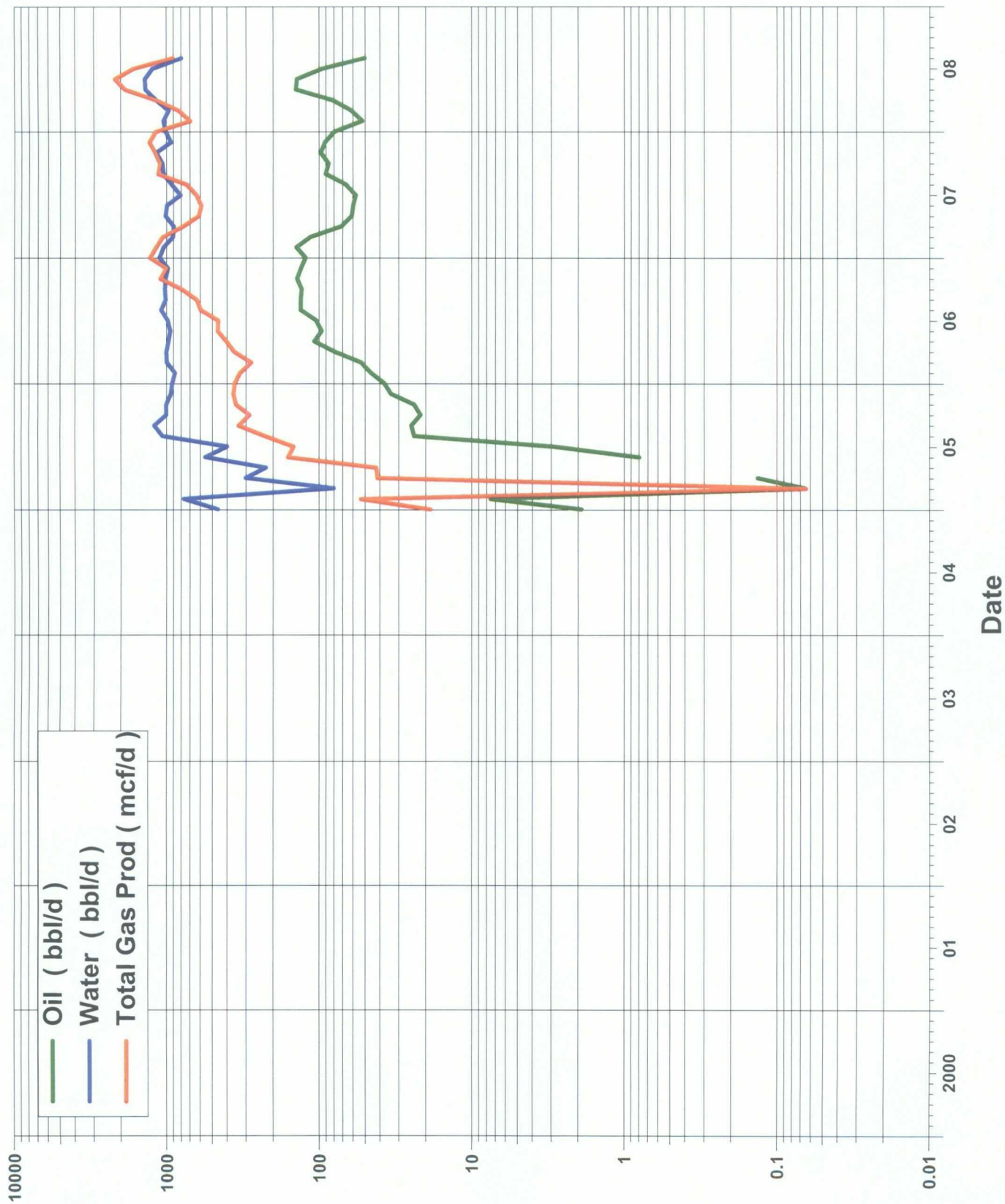
North Hobbs Unit 31231



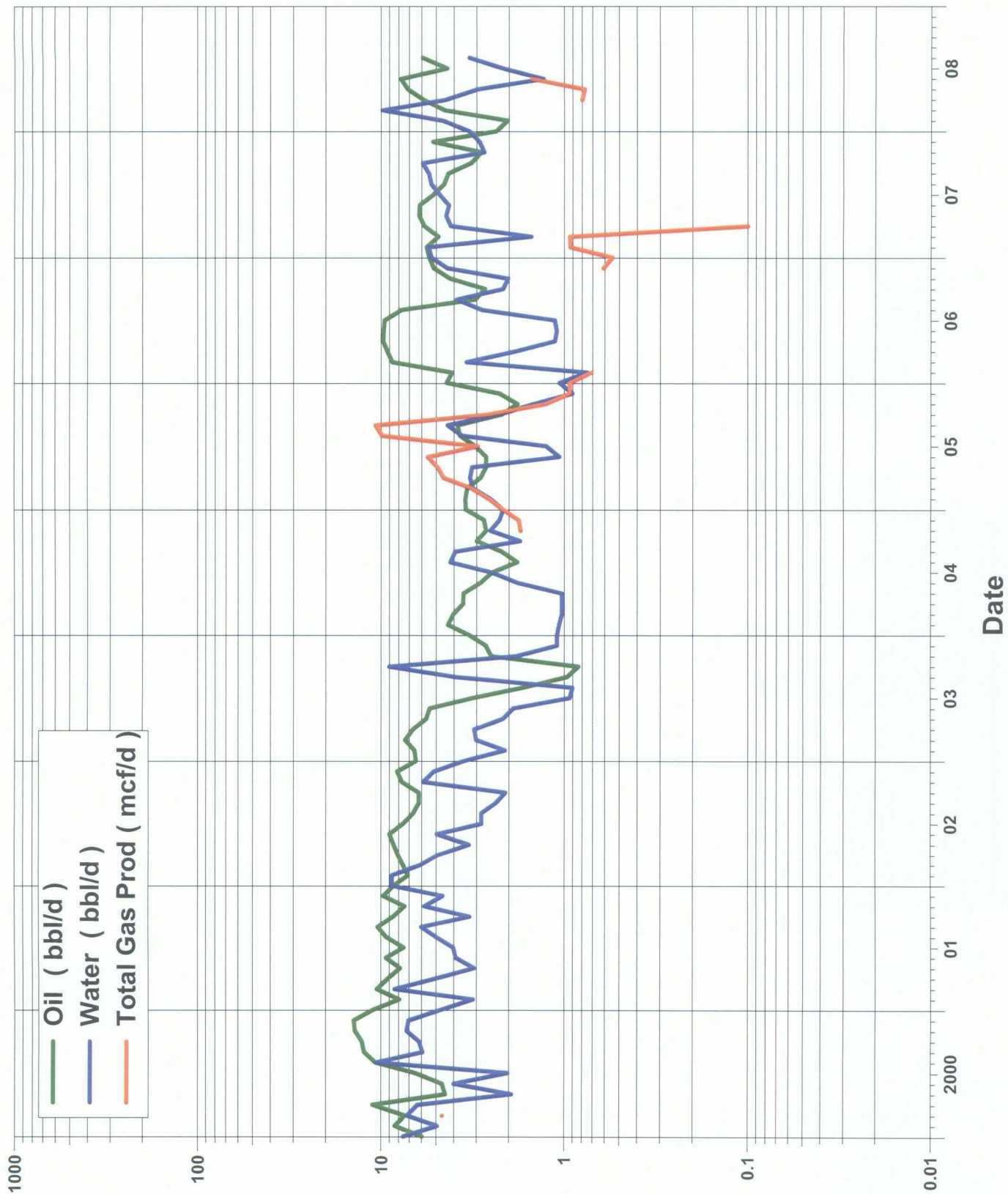
North Hobbs Unit 32232



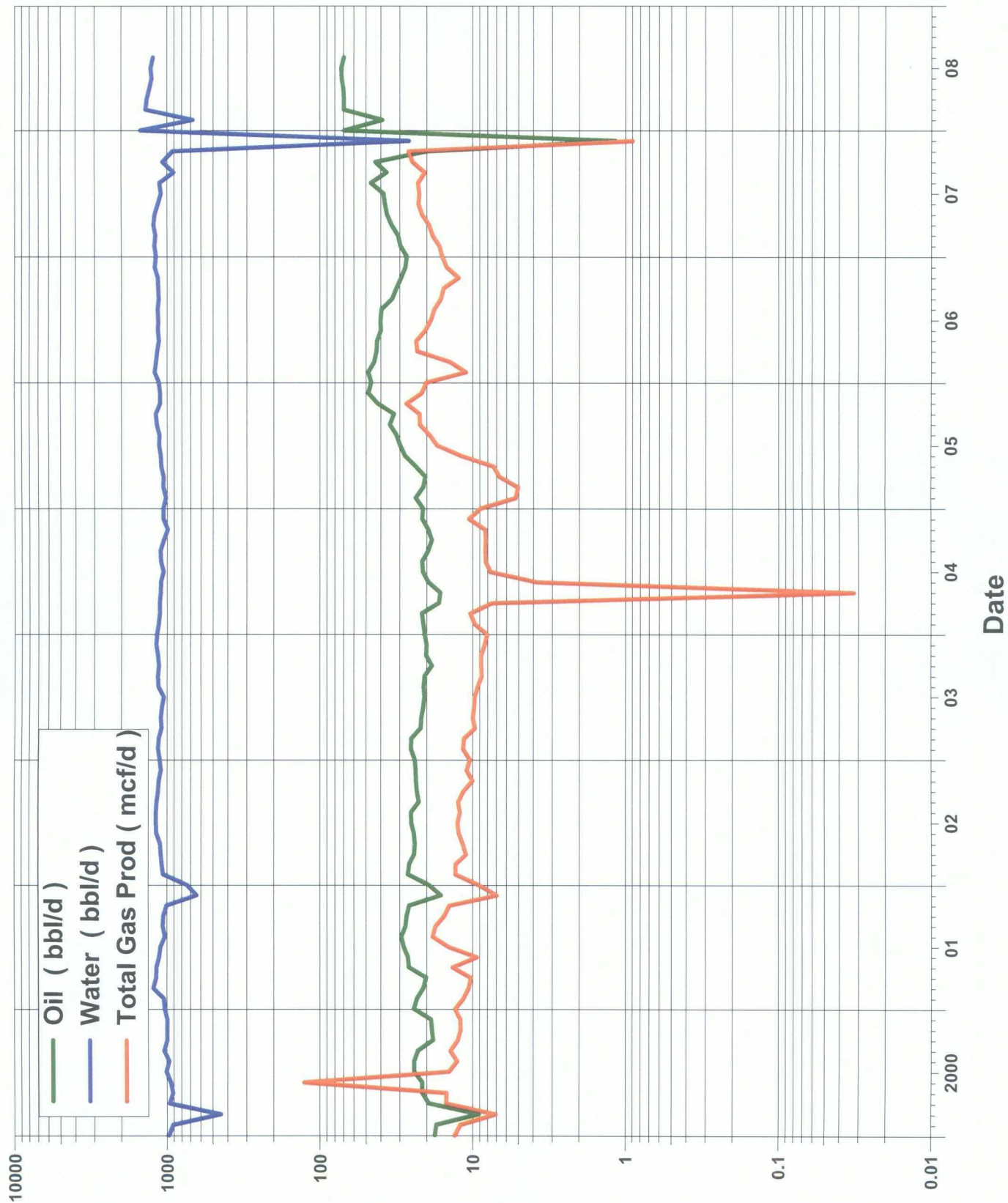
North Hobbs Unit 24241



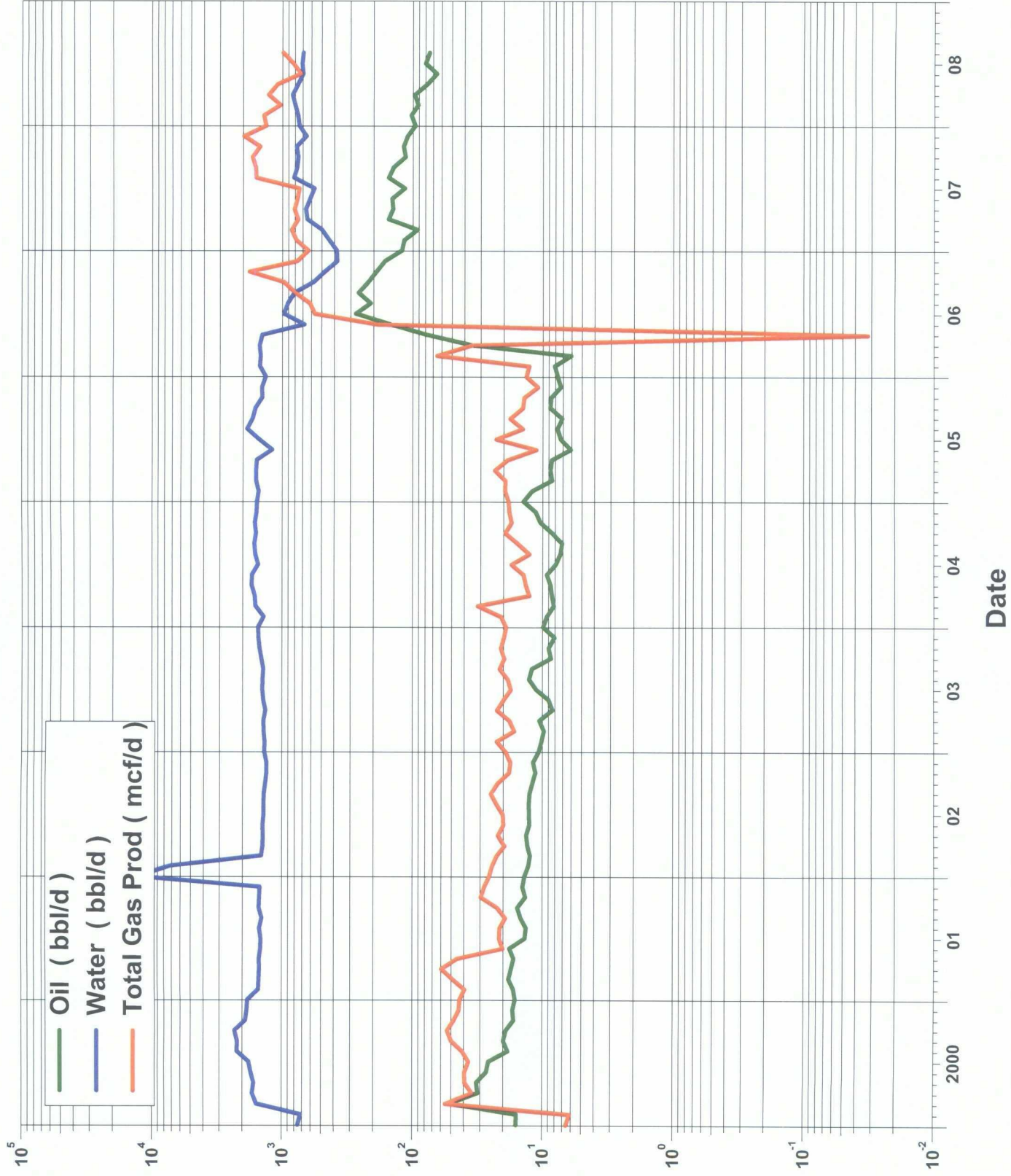
North Hobbs Unit 25241



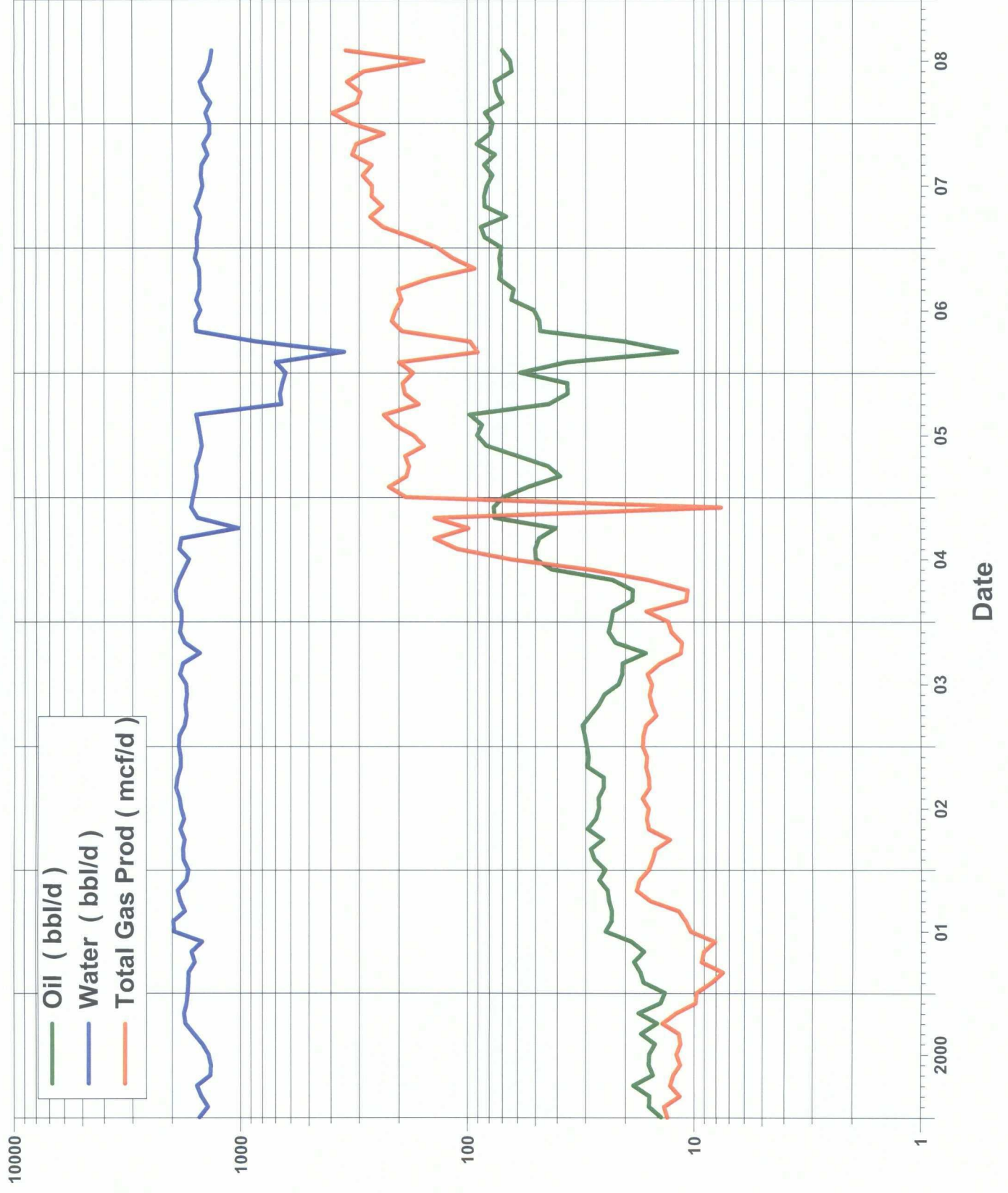
North Hobbs Unit 28241



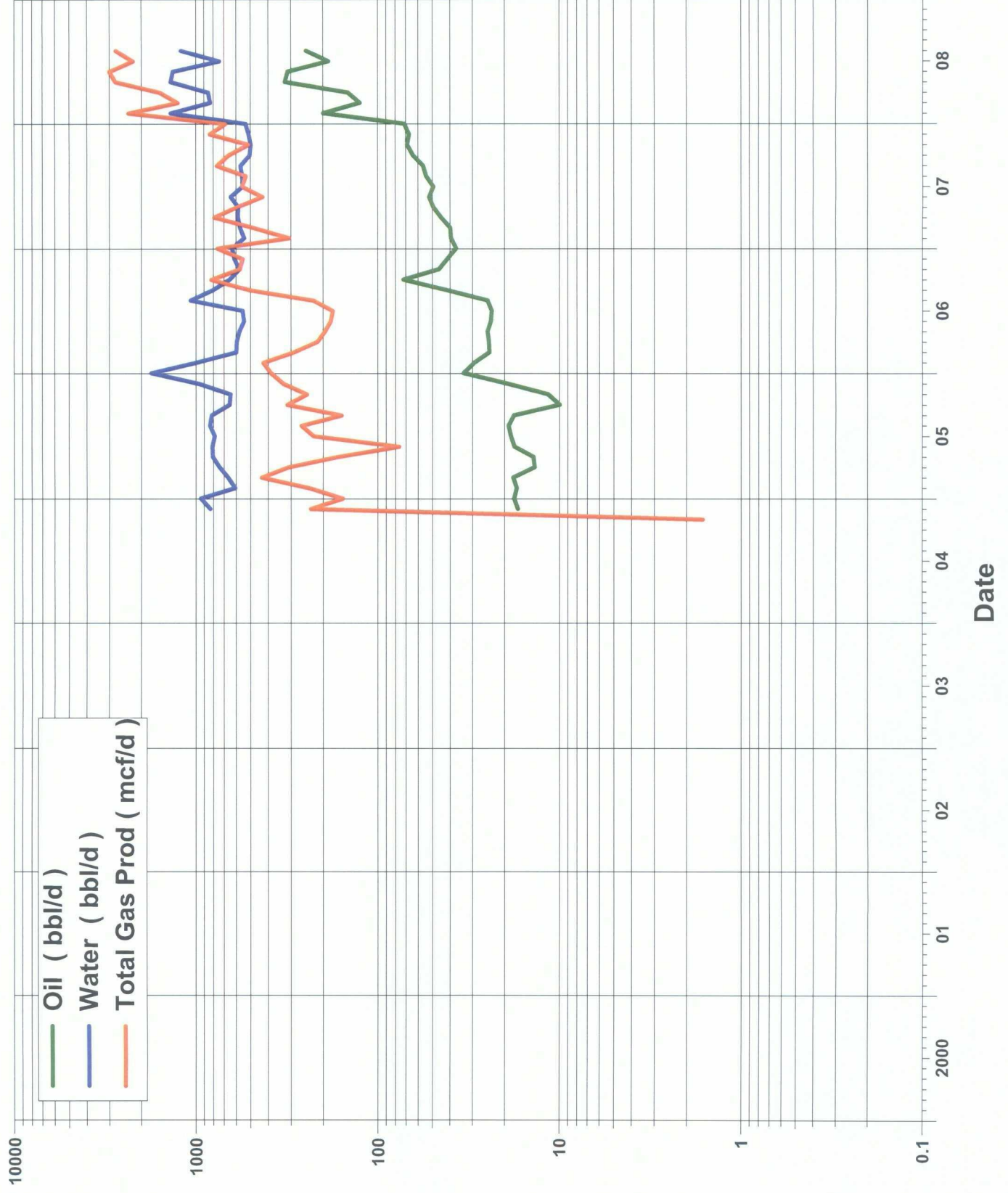
North Hobbs Unit 19242



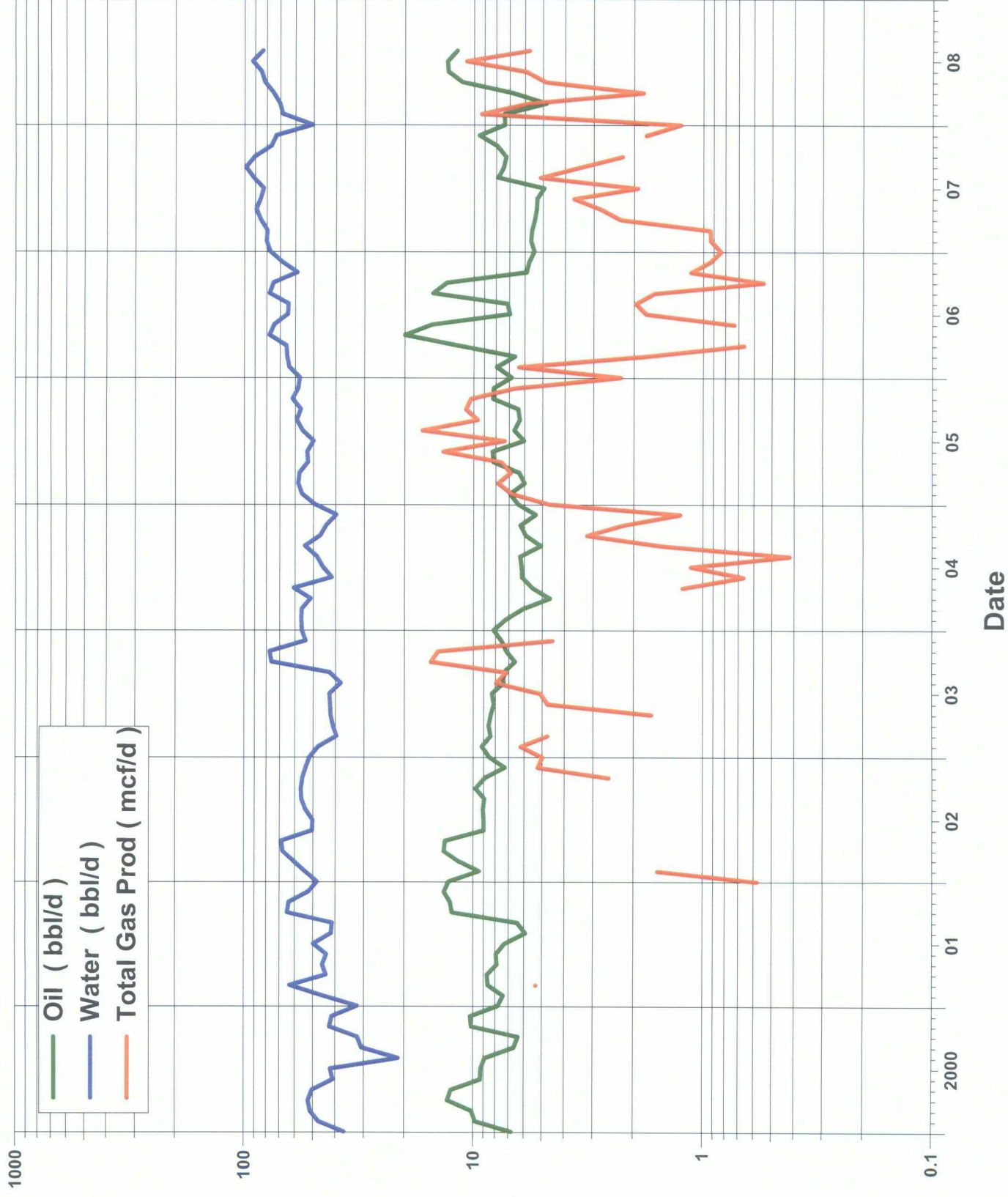
North Hobbs Unit 28243



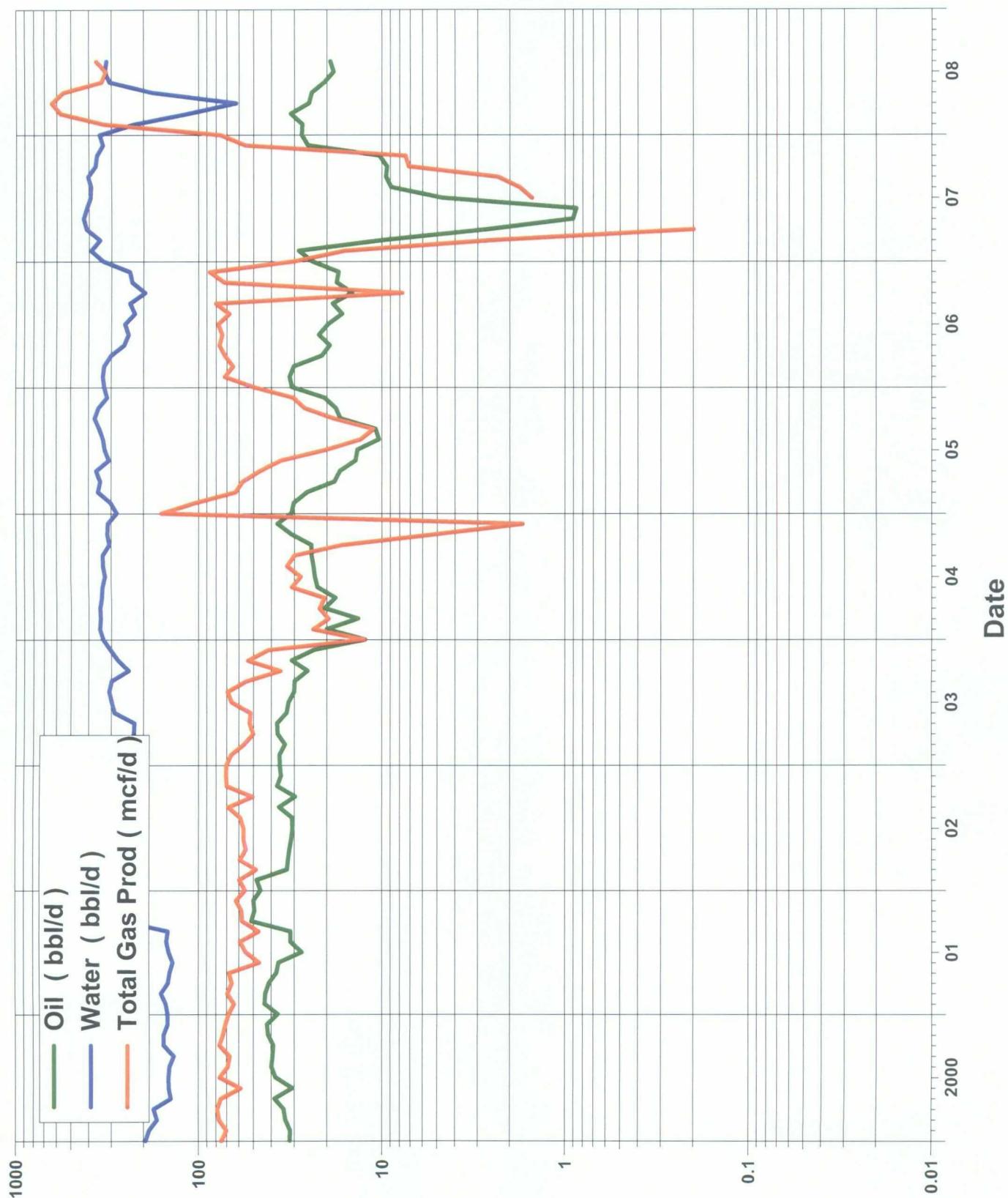
North Hobbs Unit 24311



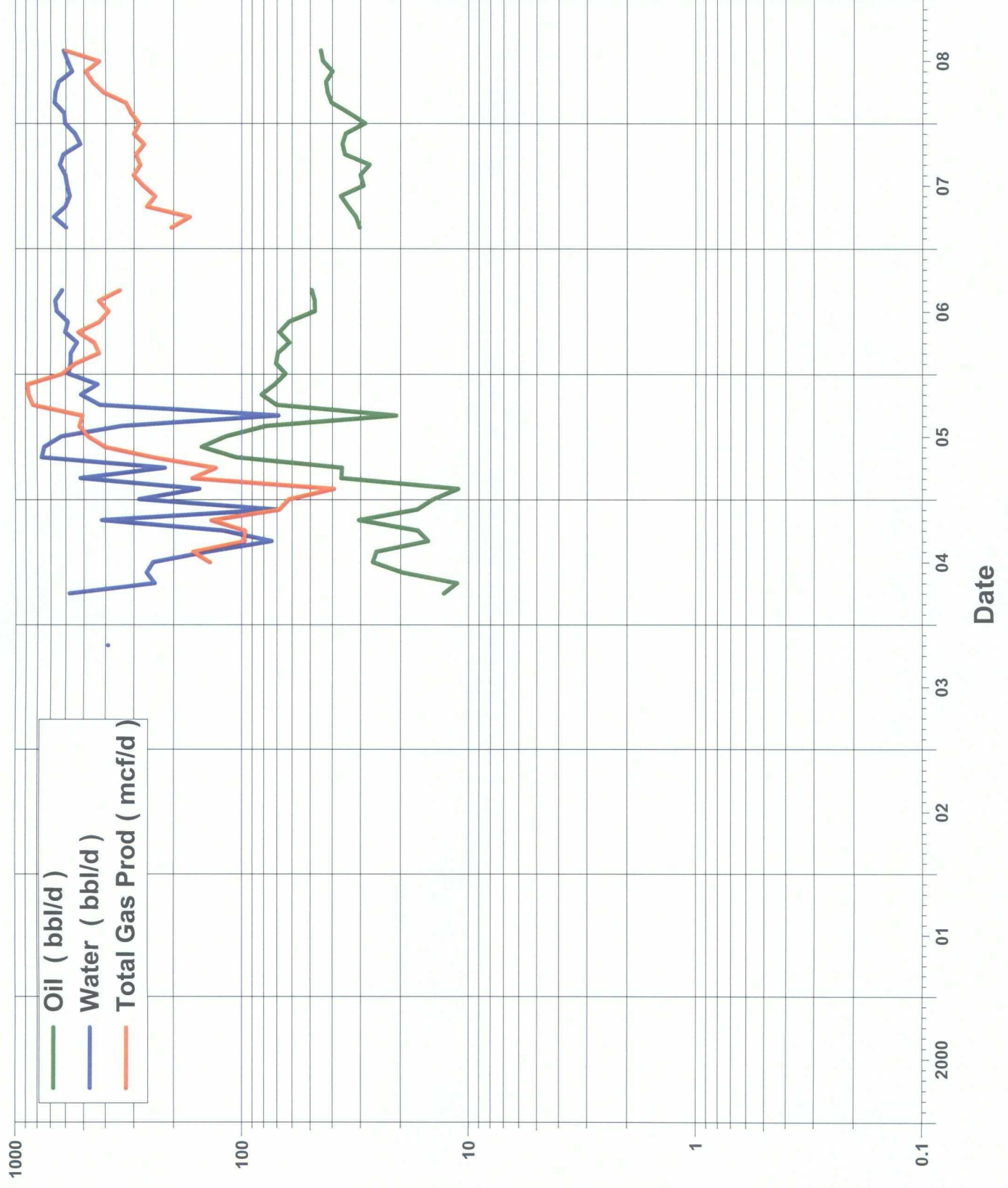
North Hobbs Unit 36311



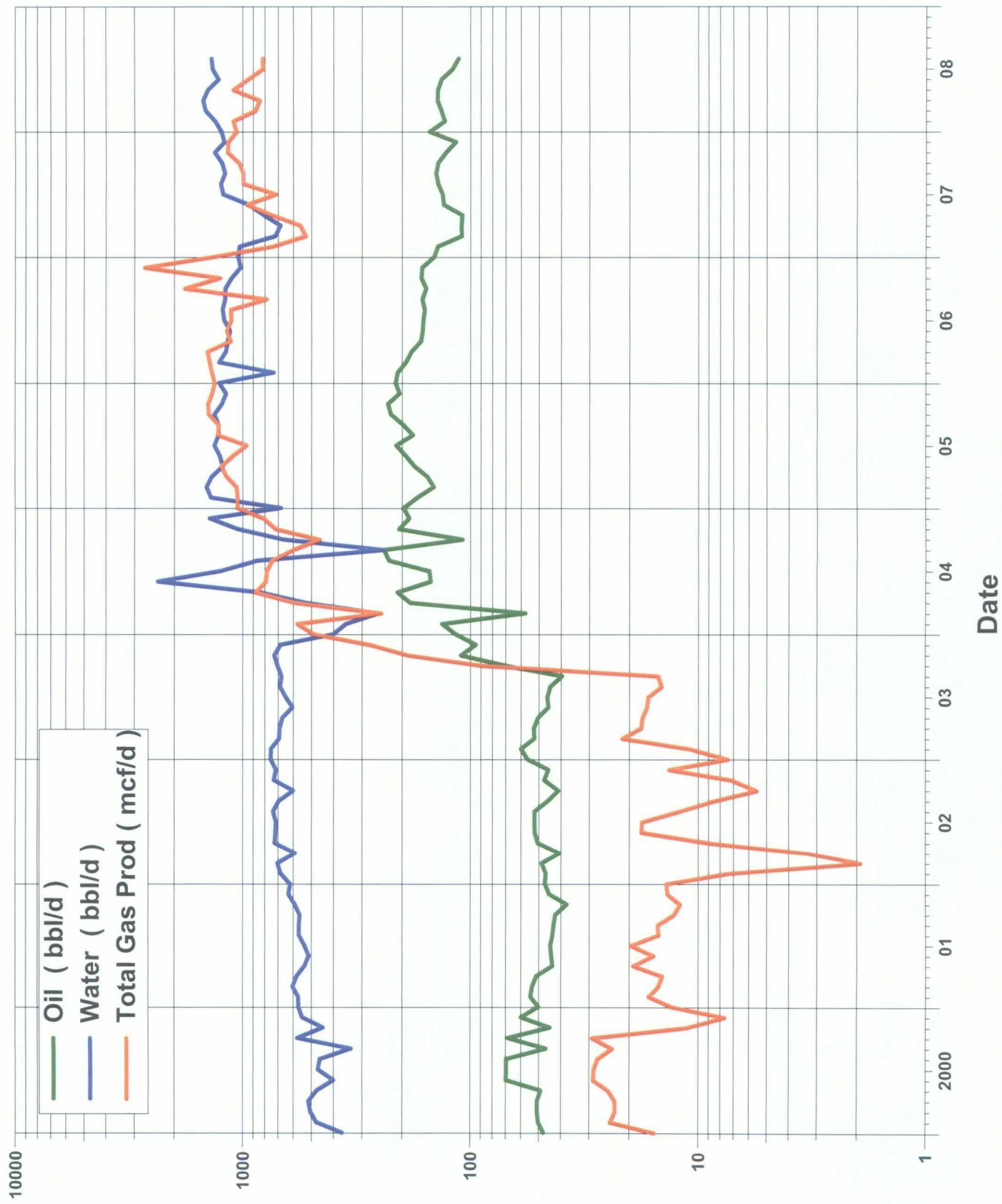
North Hobbs Unit 29311



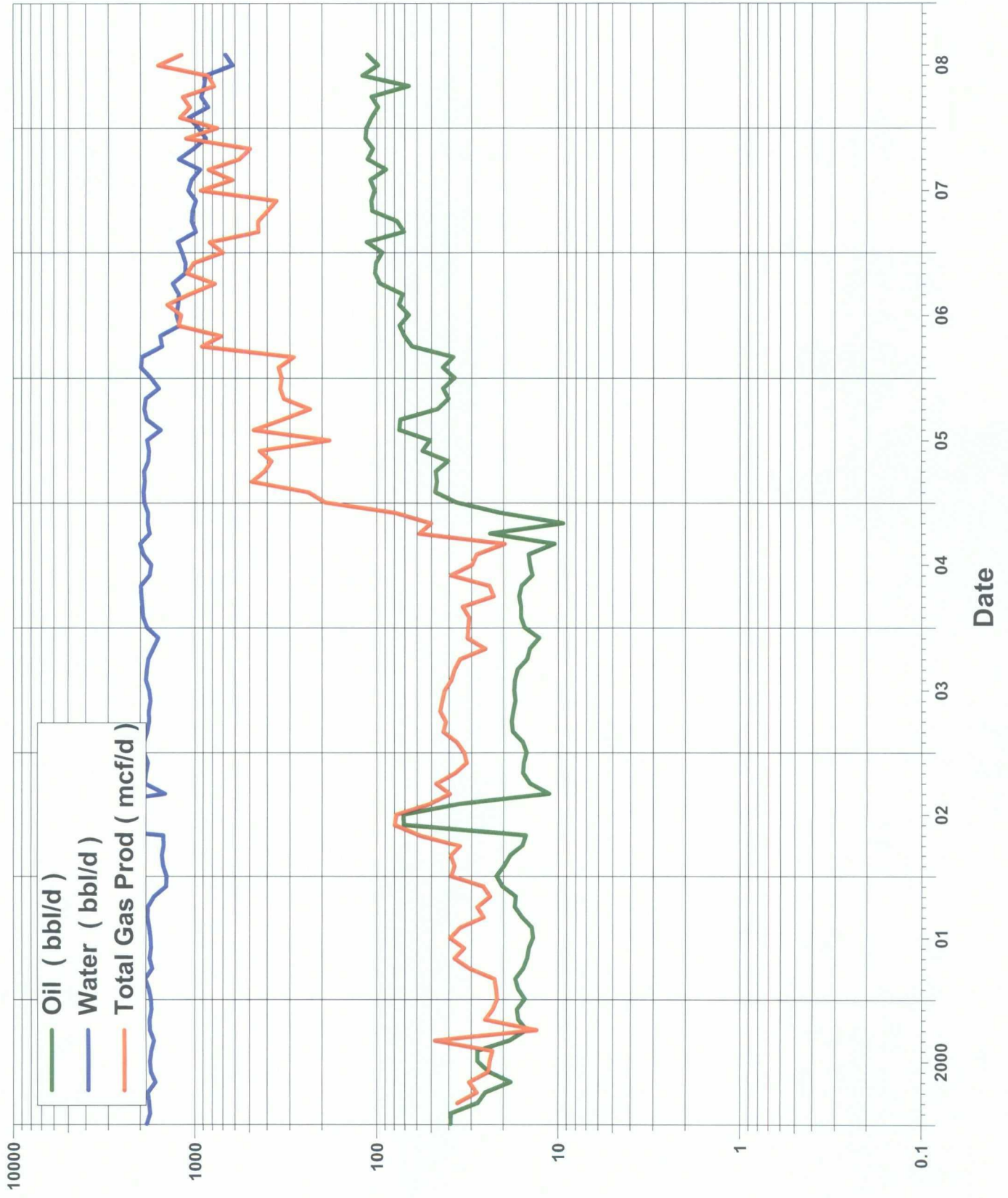
North Hobbs Unit 31311



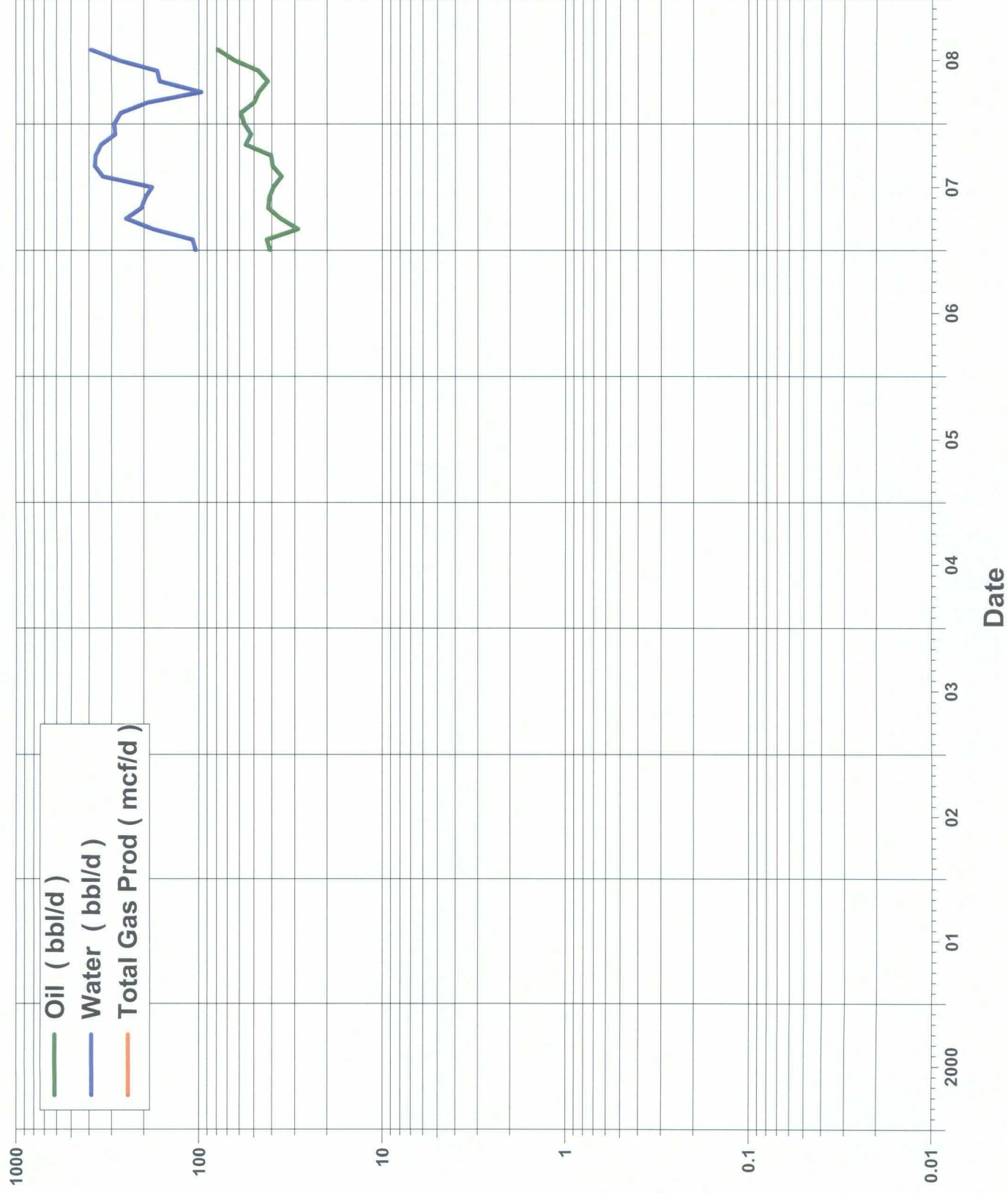
North Hobbs Unit 32313



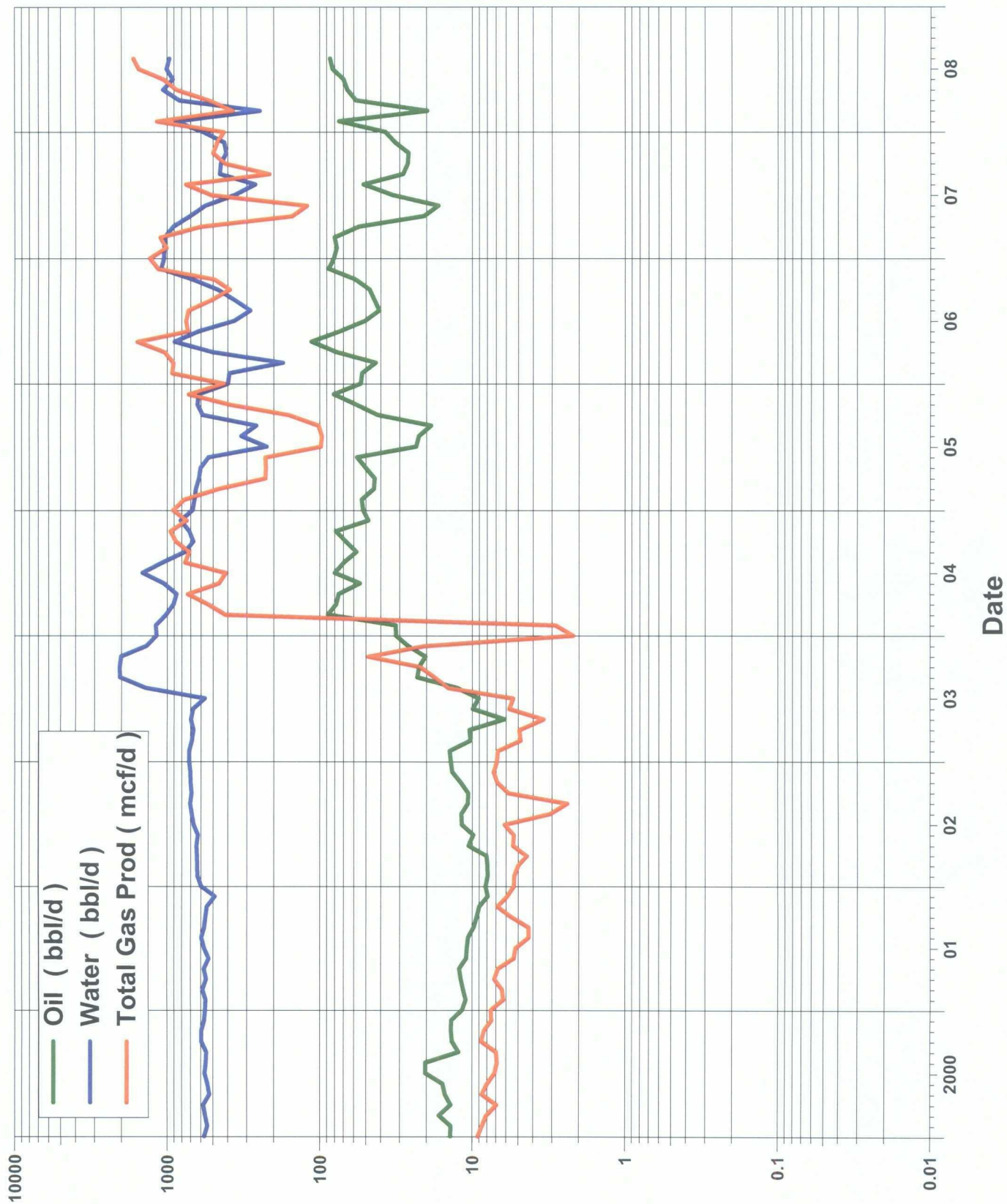
North Hobbs Unit 24321



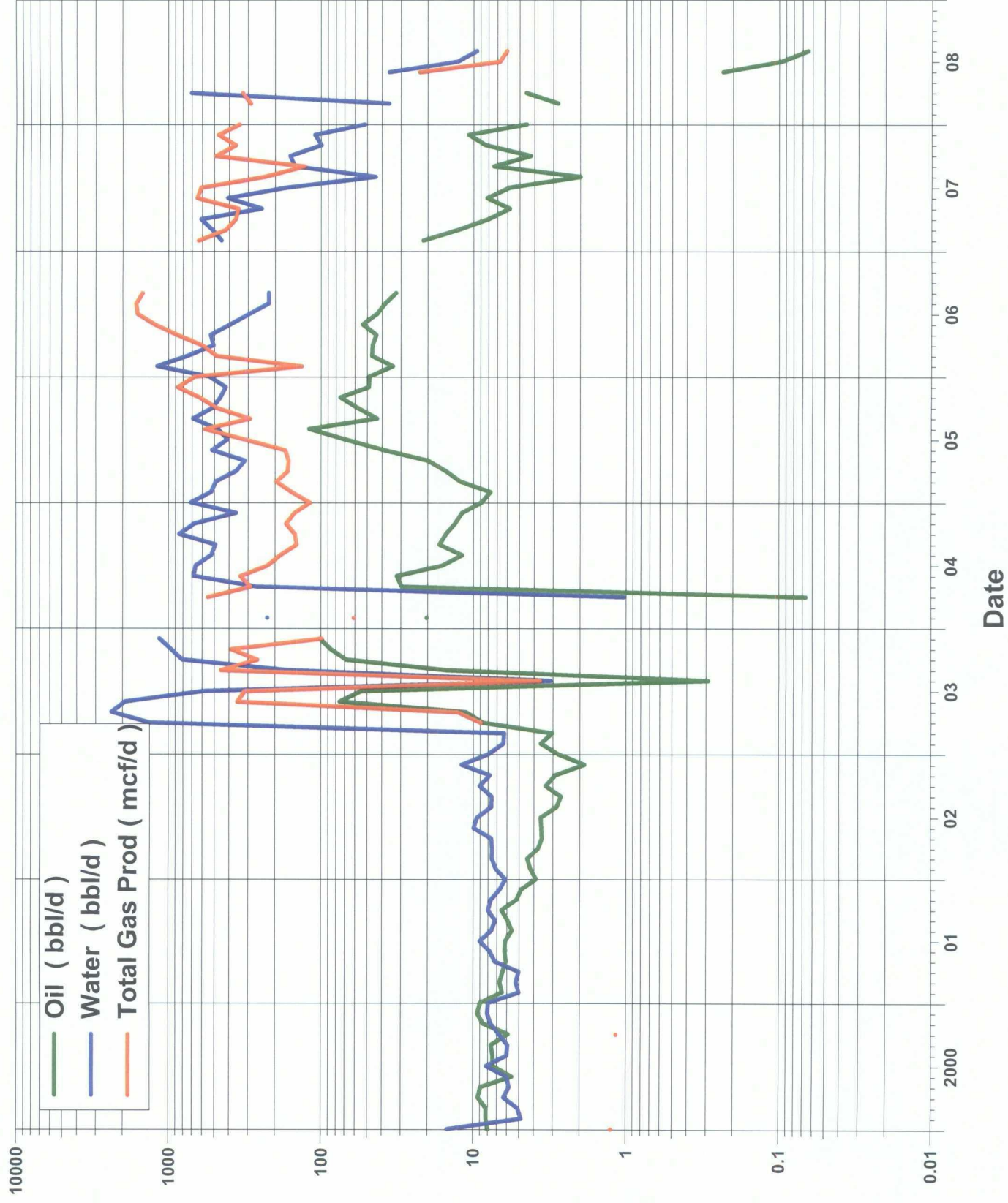
North Hobbs Unit 19321



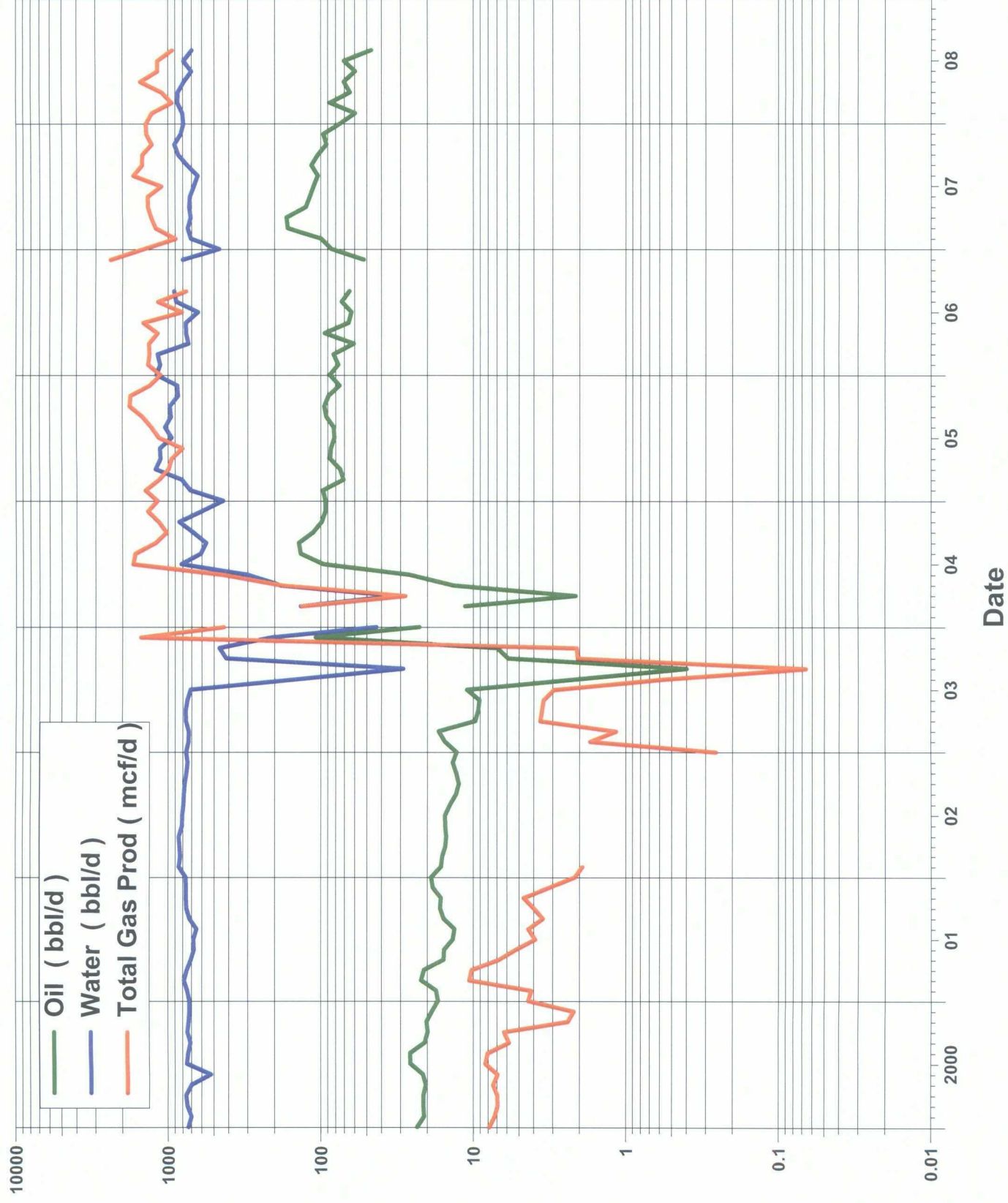
North Hobbs Unit 30321



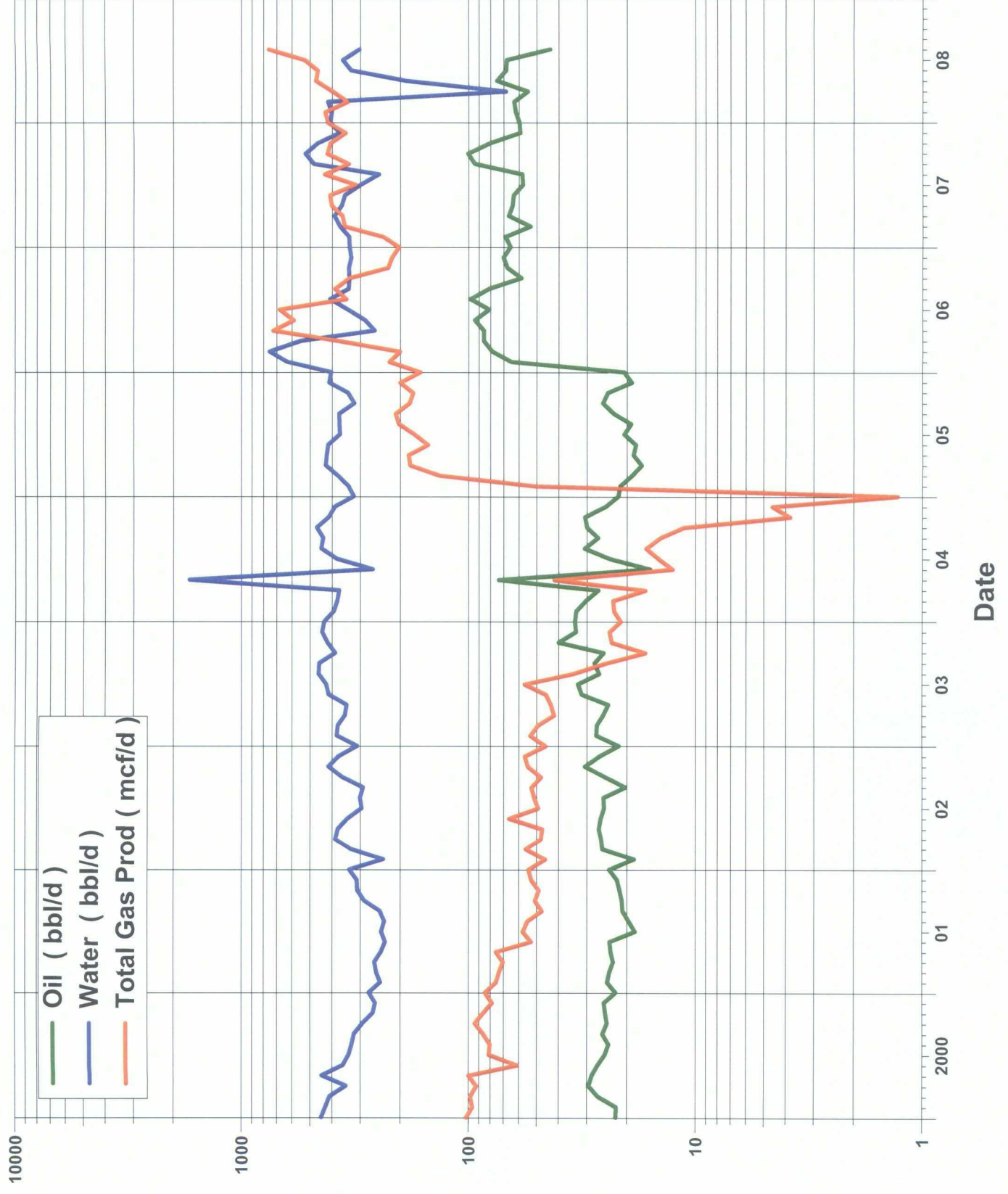
North Hobbs Unit 31321



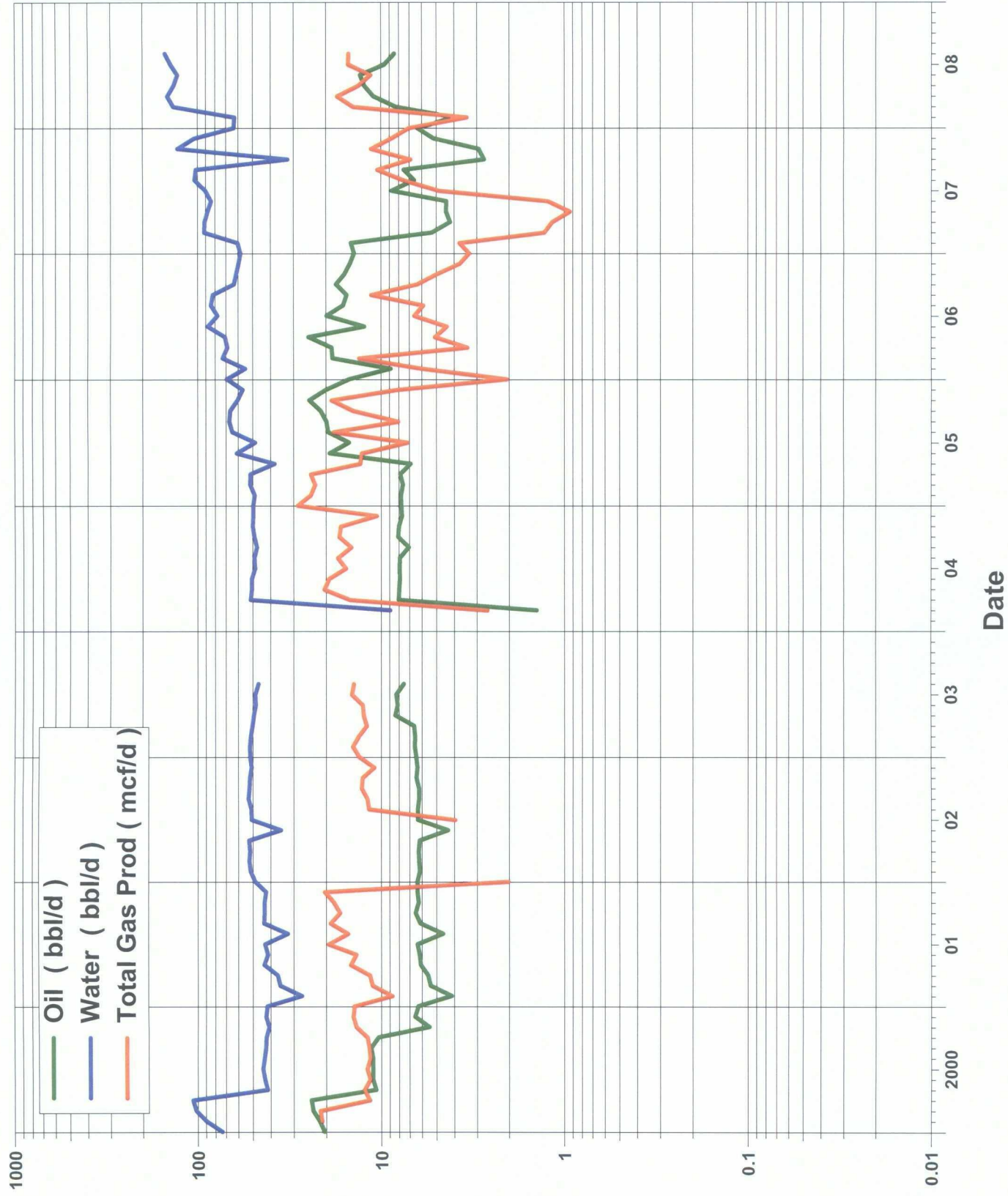
North Hobbs Unit 32322



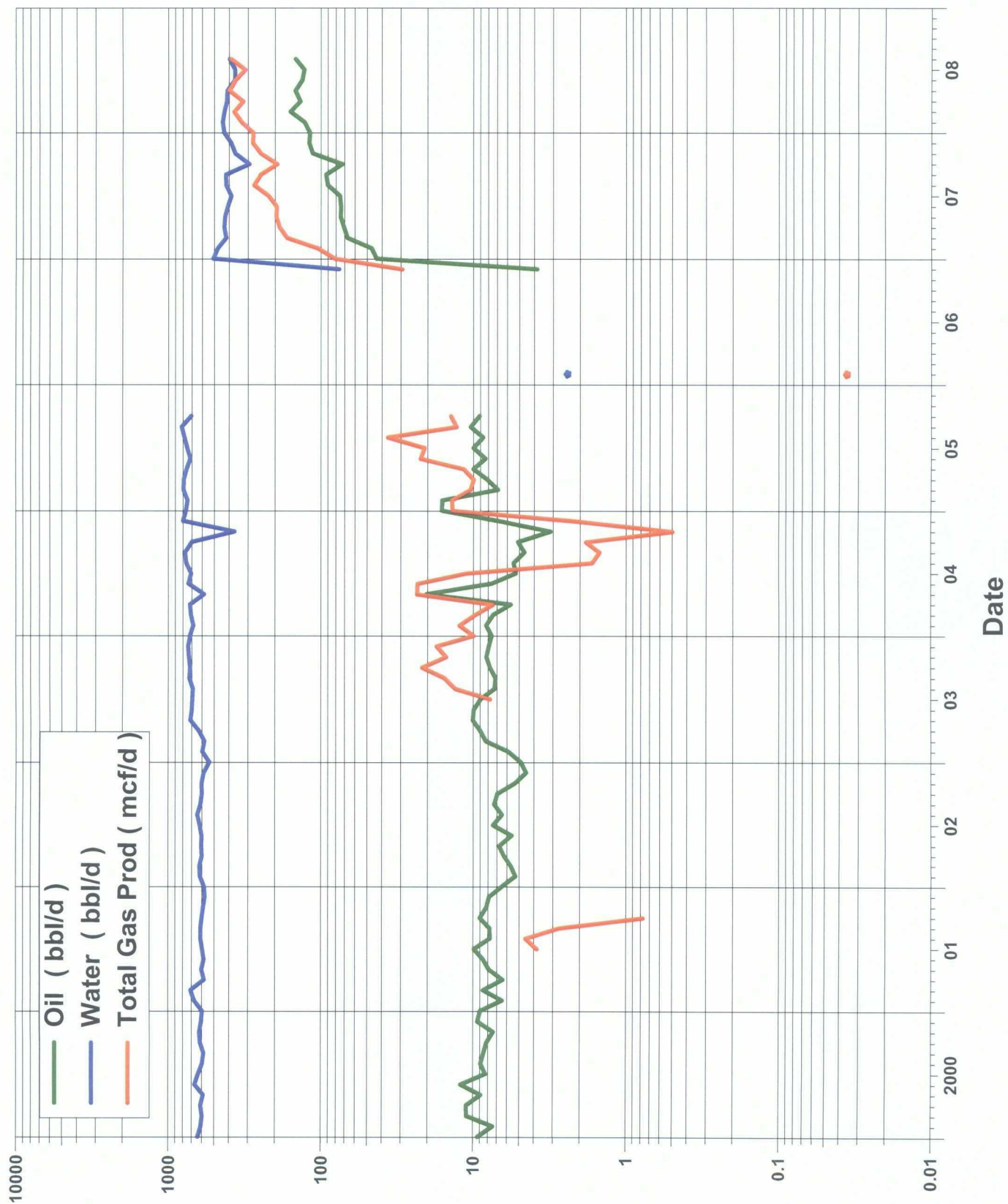
North Hobbs Unit 29323



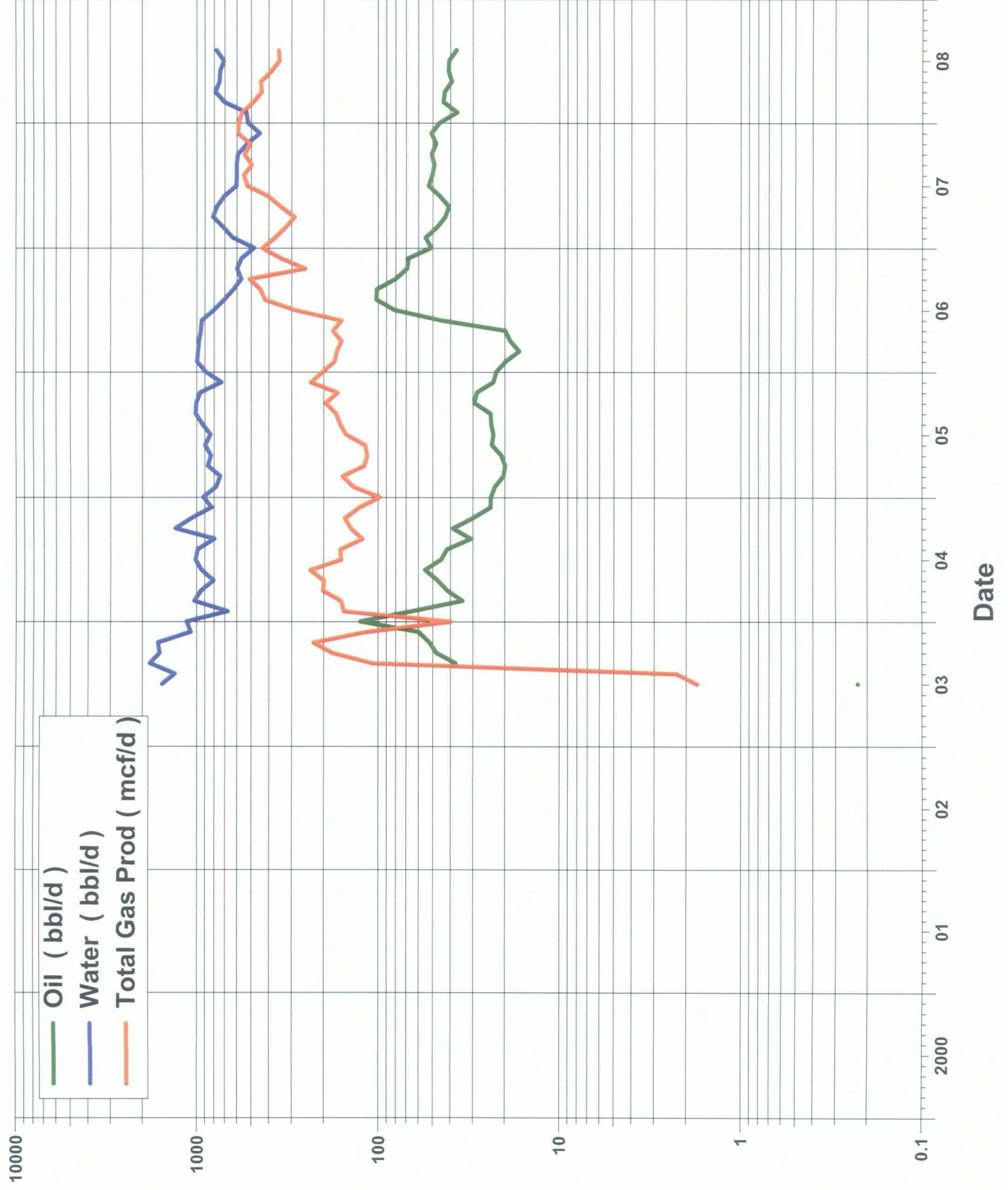
North Hobbs Unit 23331



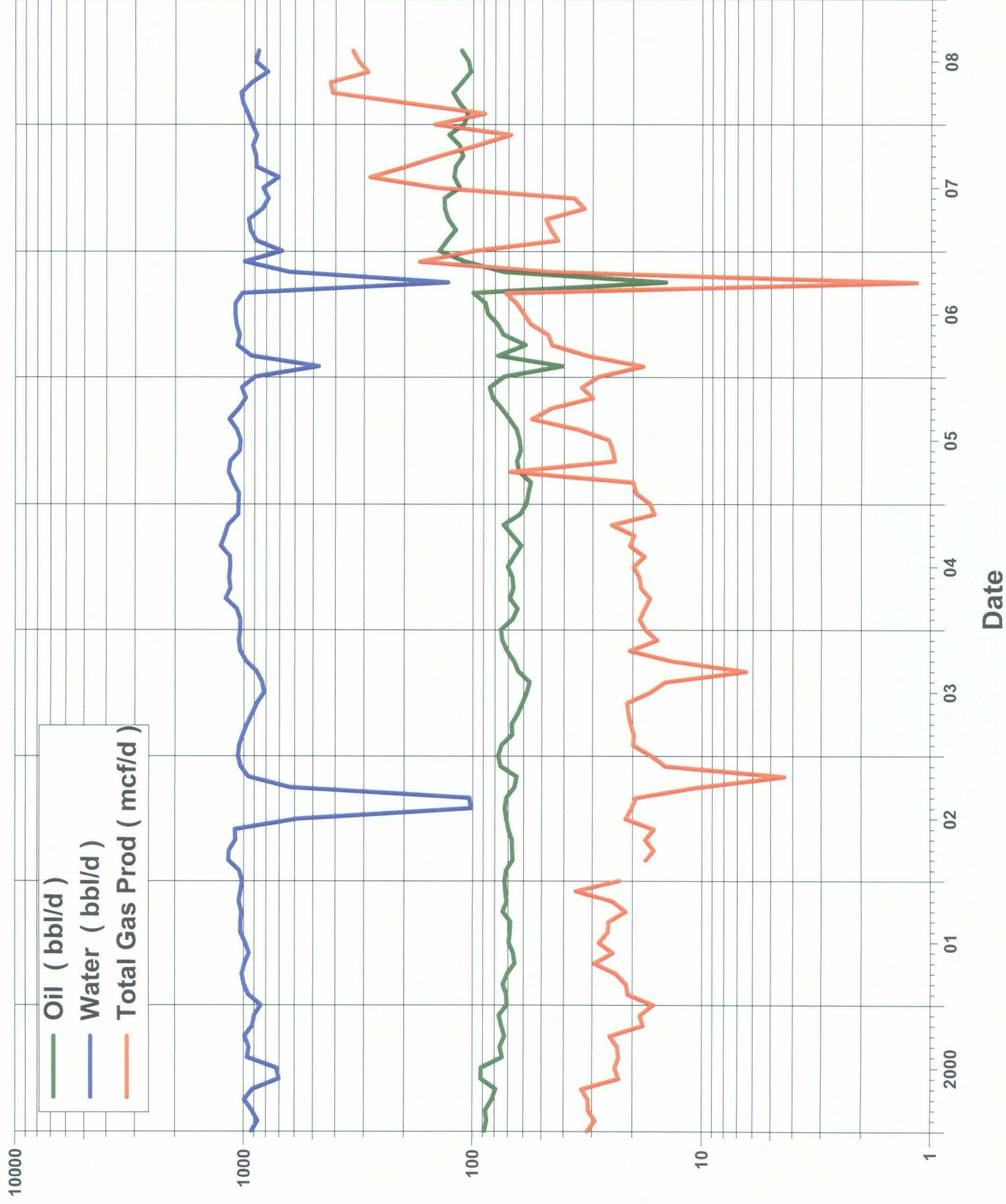
North Hobbs Unit 25331



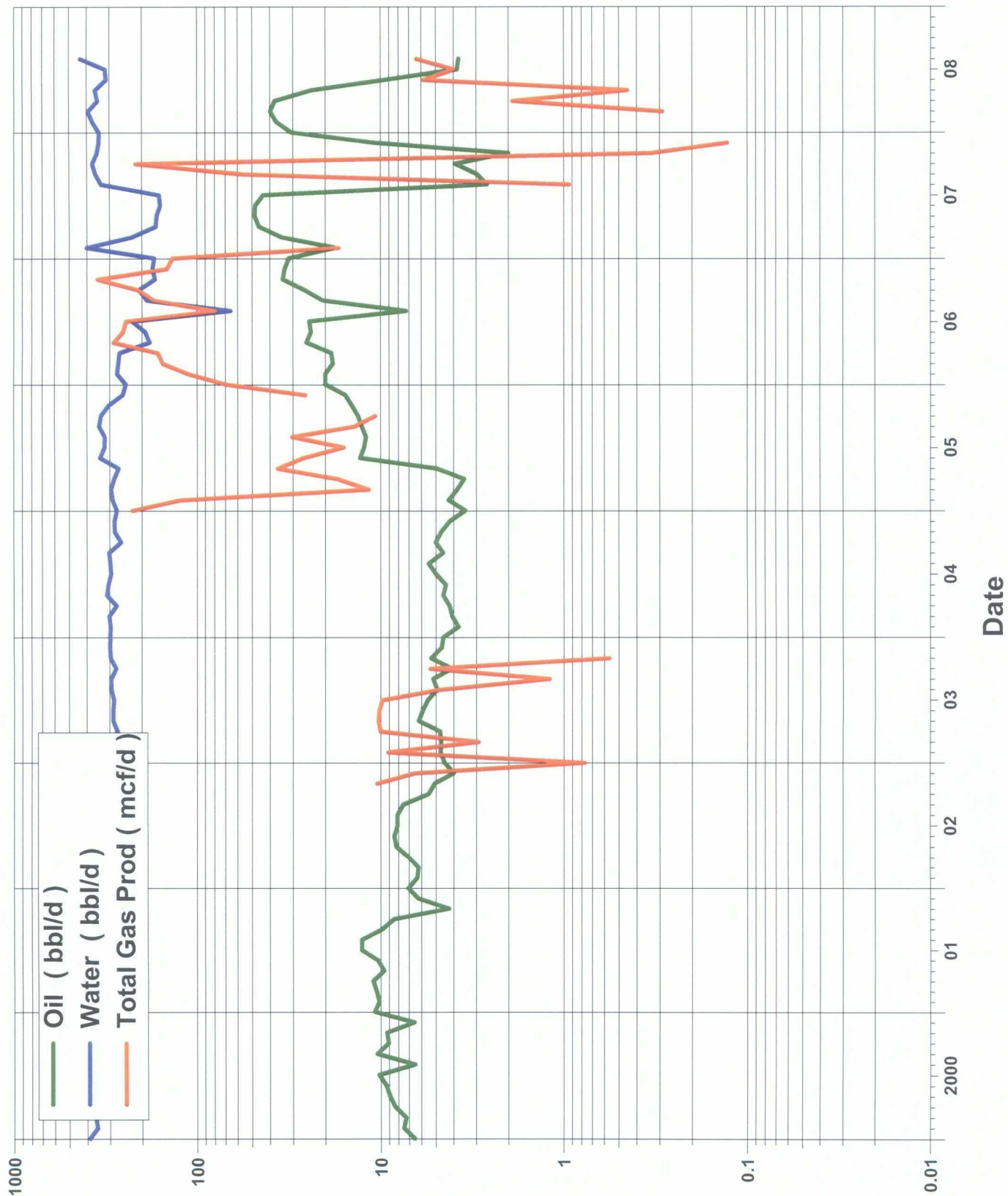
North Hobbs Unit 31331



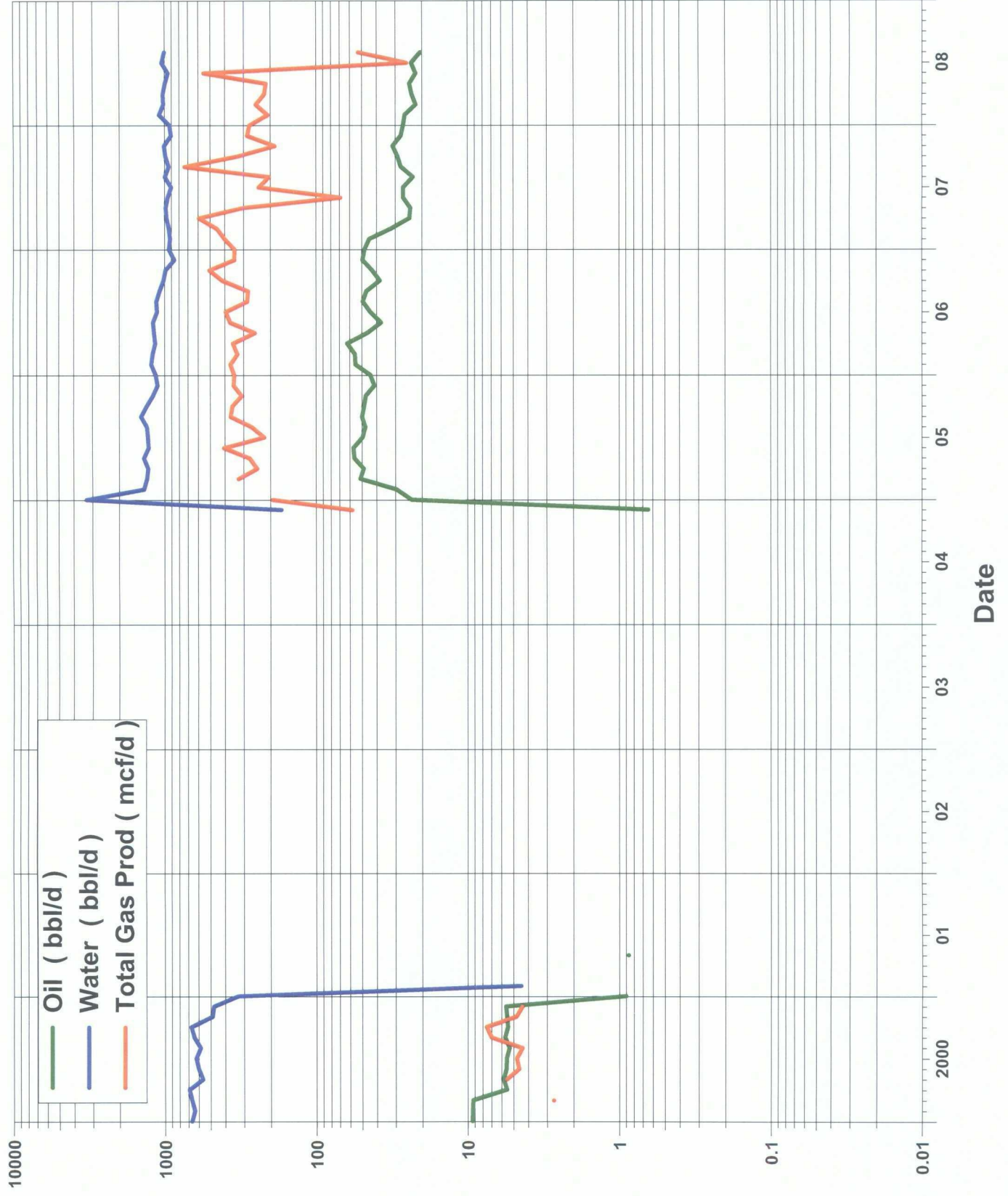
North Hobbs Unit 32332



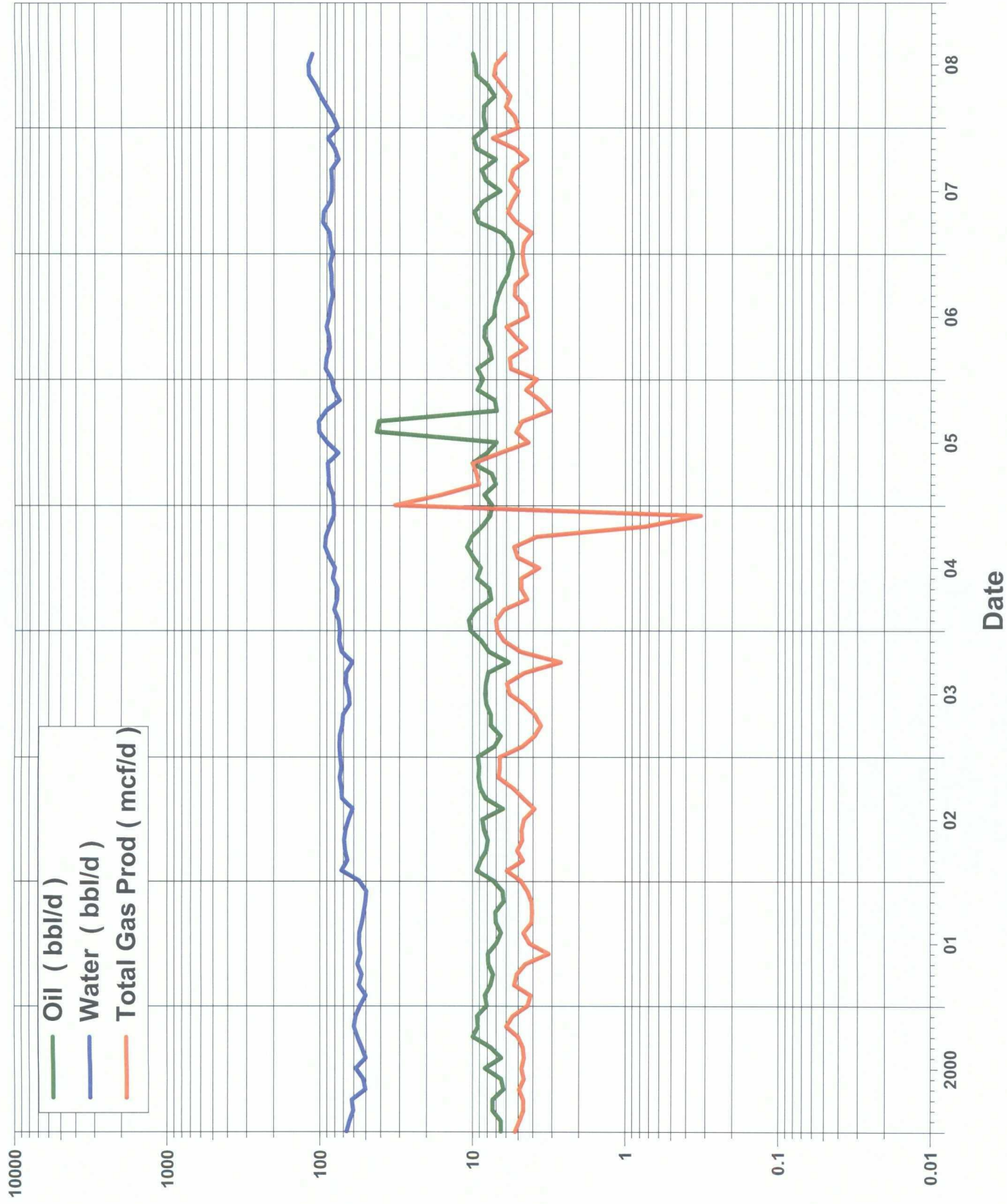
North Hobbs Unit 13341



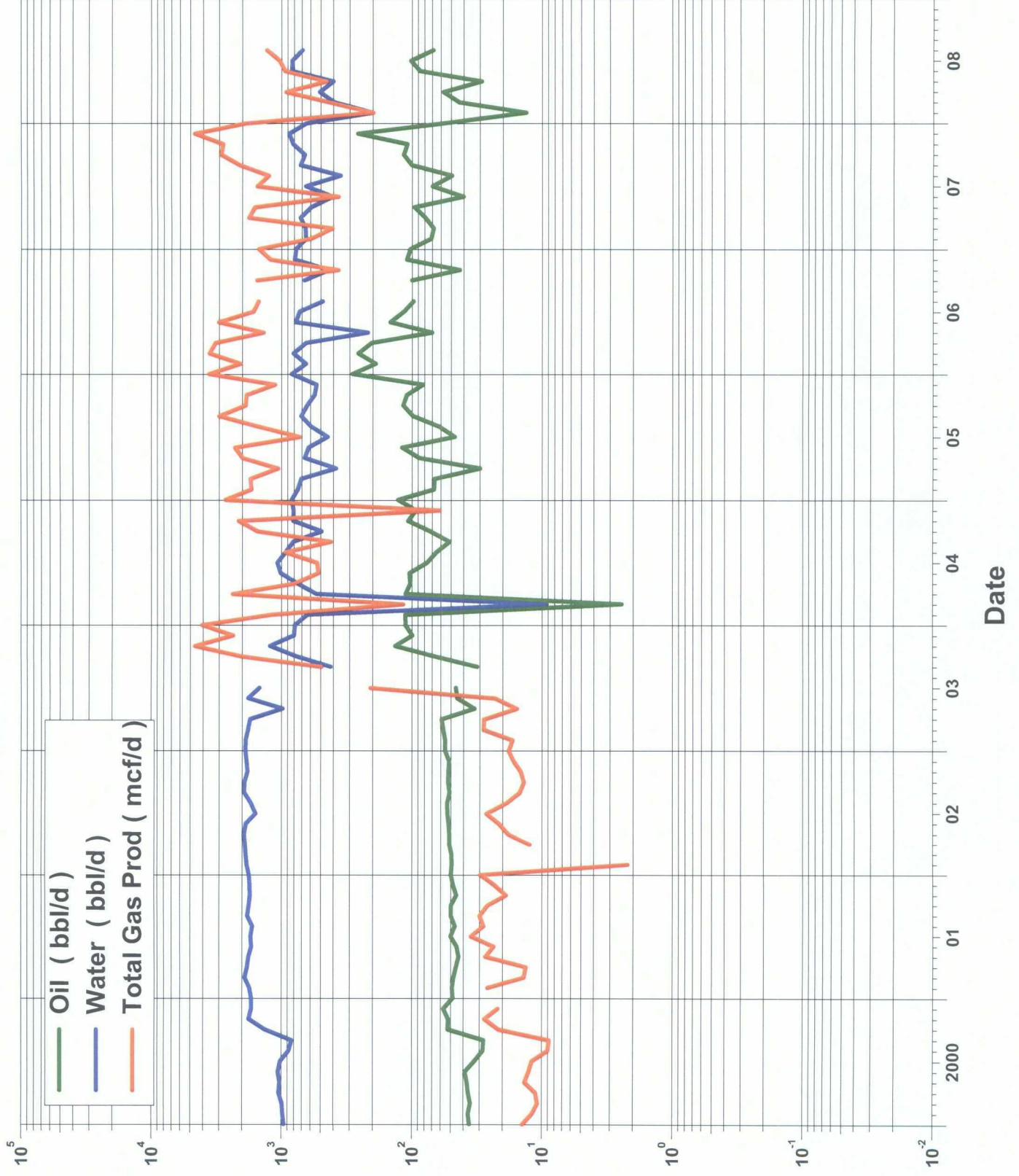
North Hobbs Unit 24341



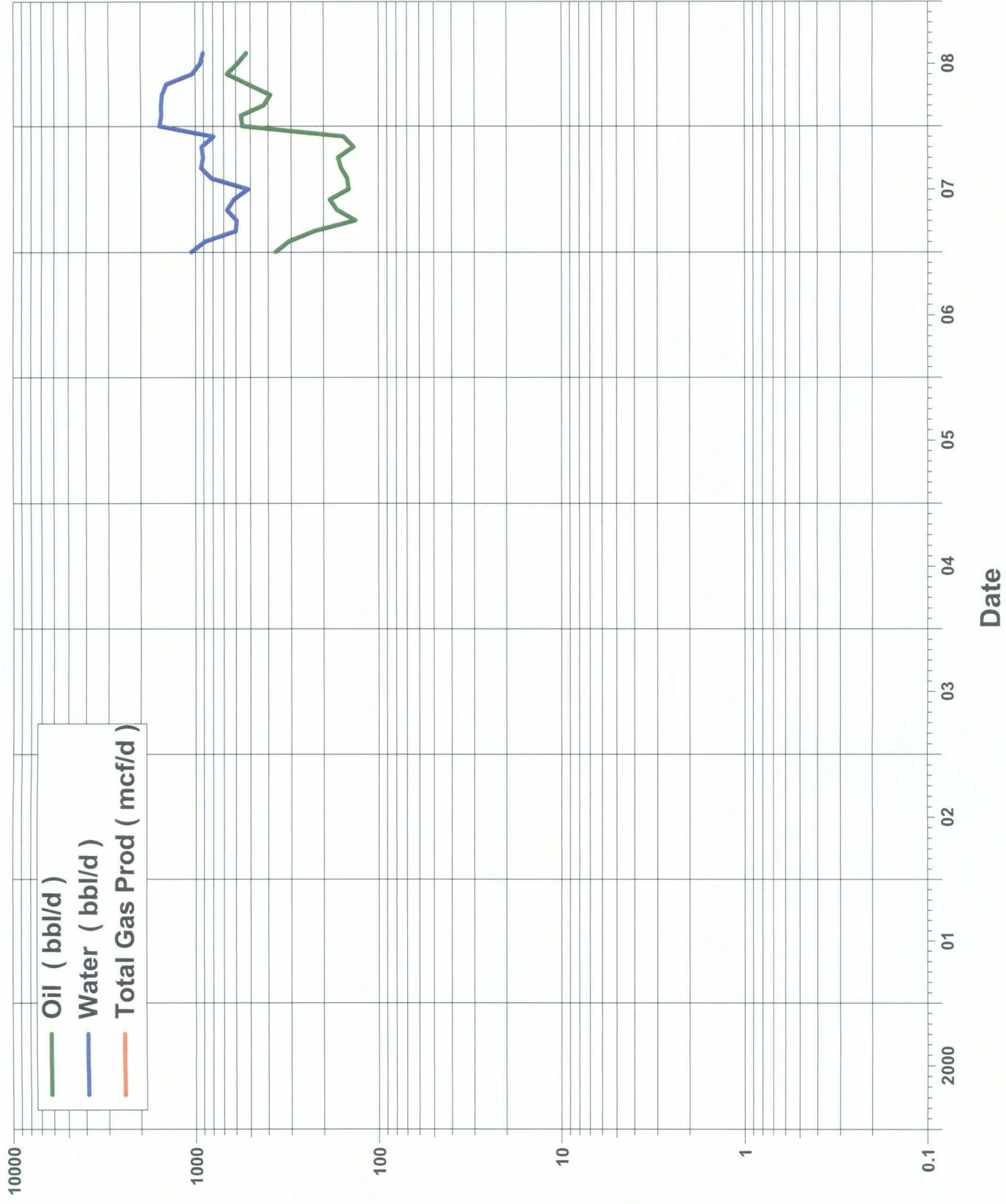
North Hobbs Unit 20341



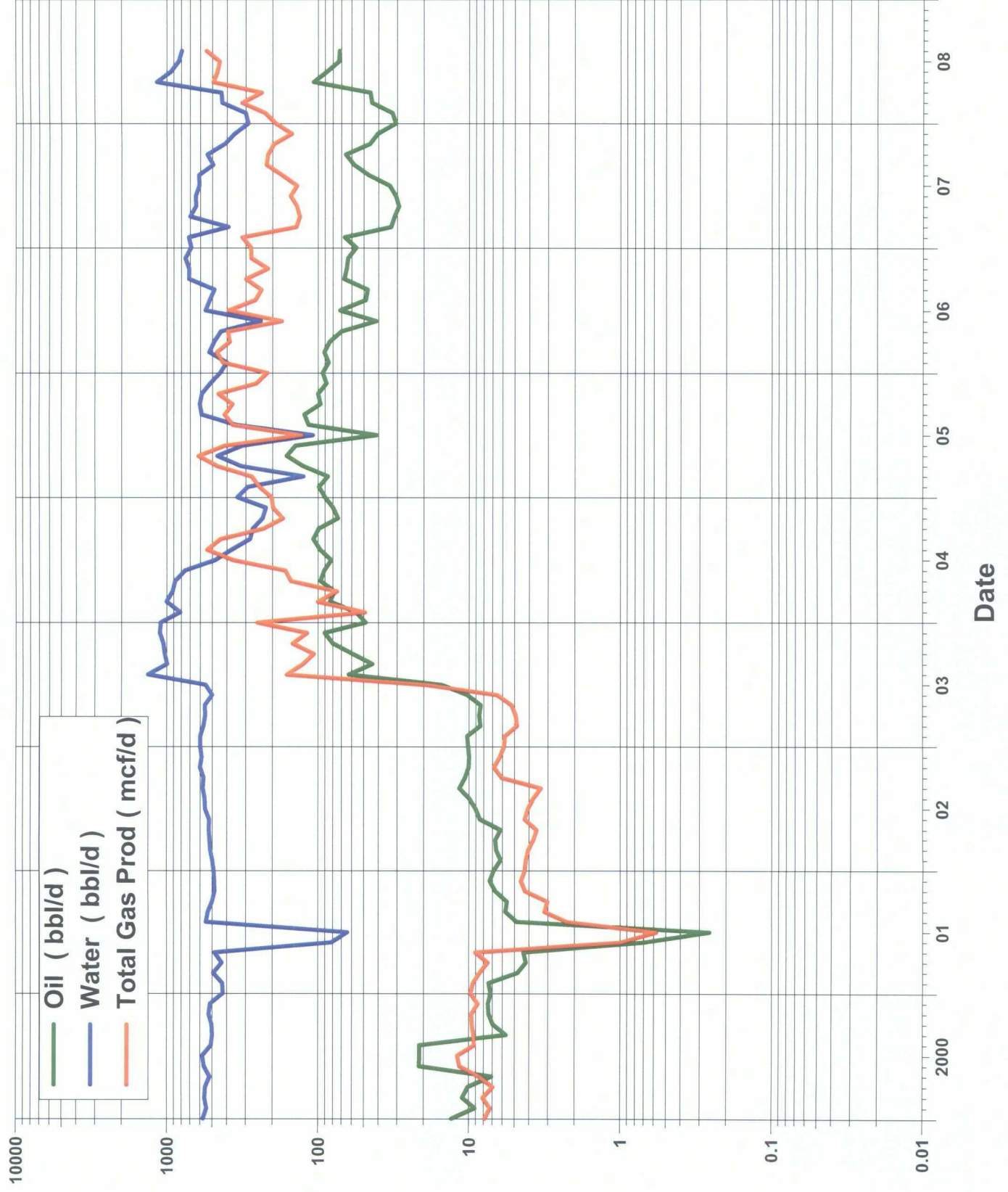
North Hobbs Unit 29341



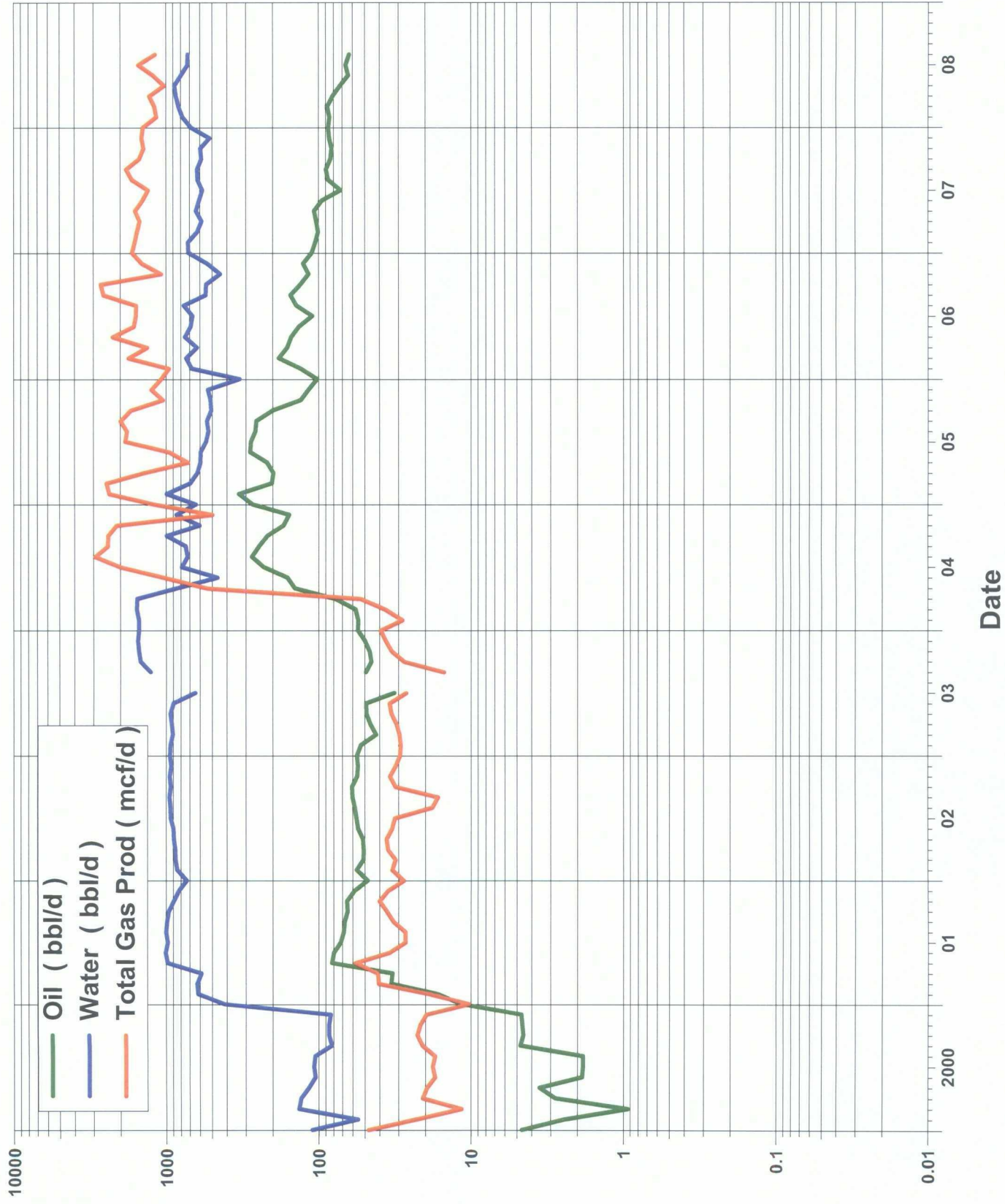
North Hobbs Unit 19341



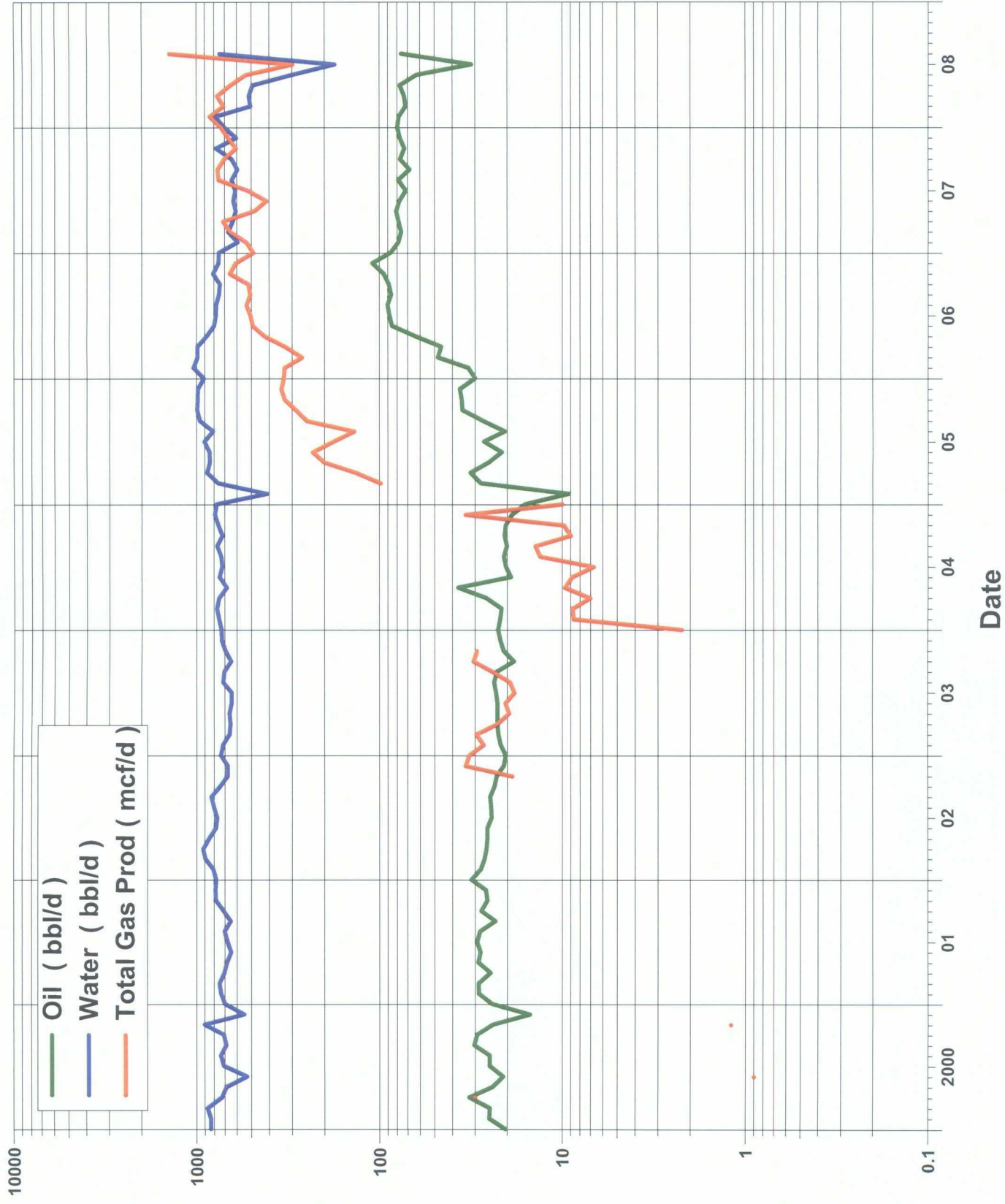
North Hobbs Unit 30341



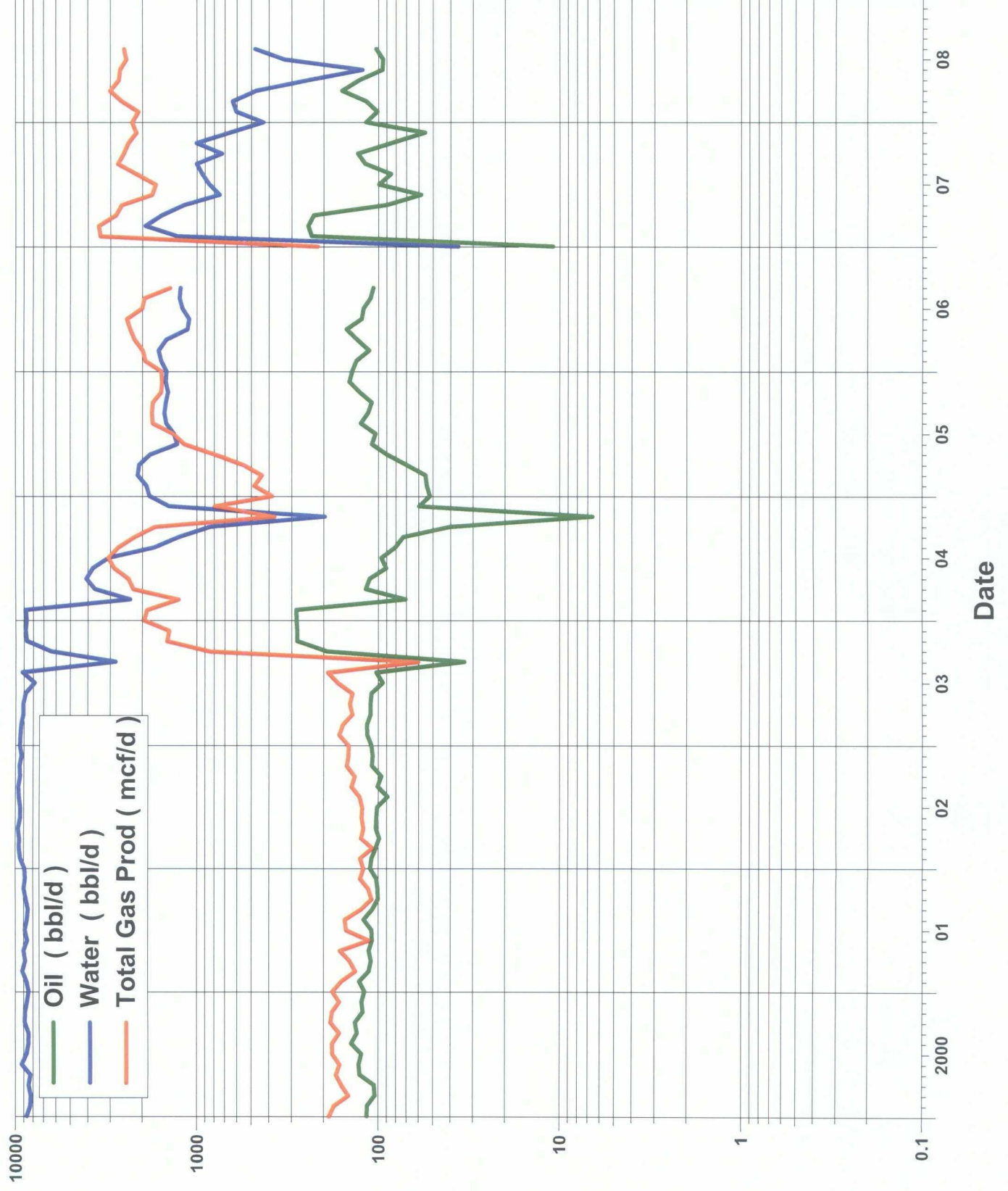
North Hobbs Unit 31411



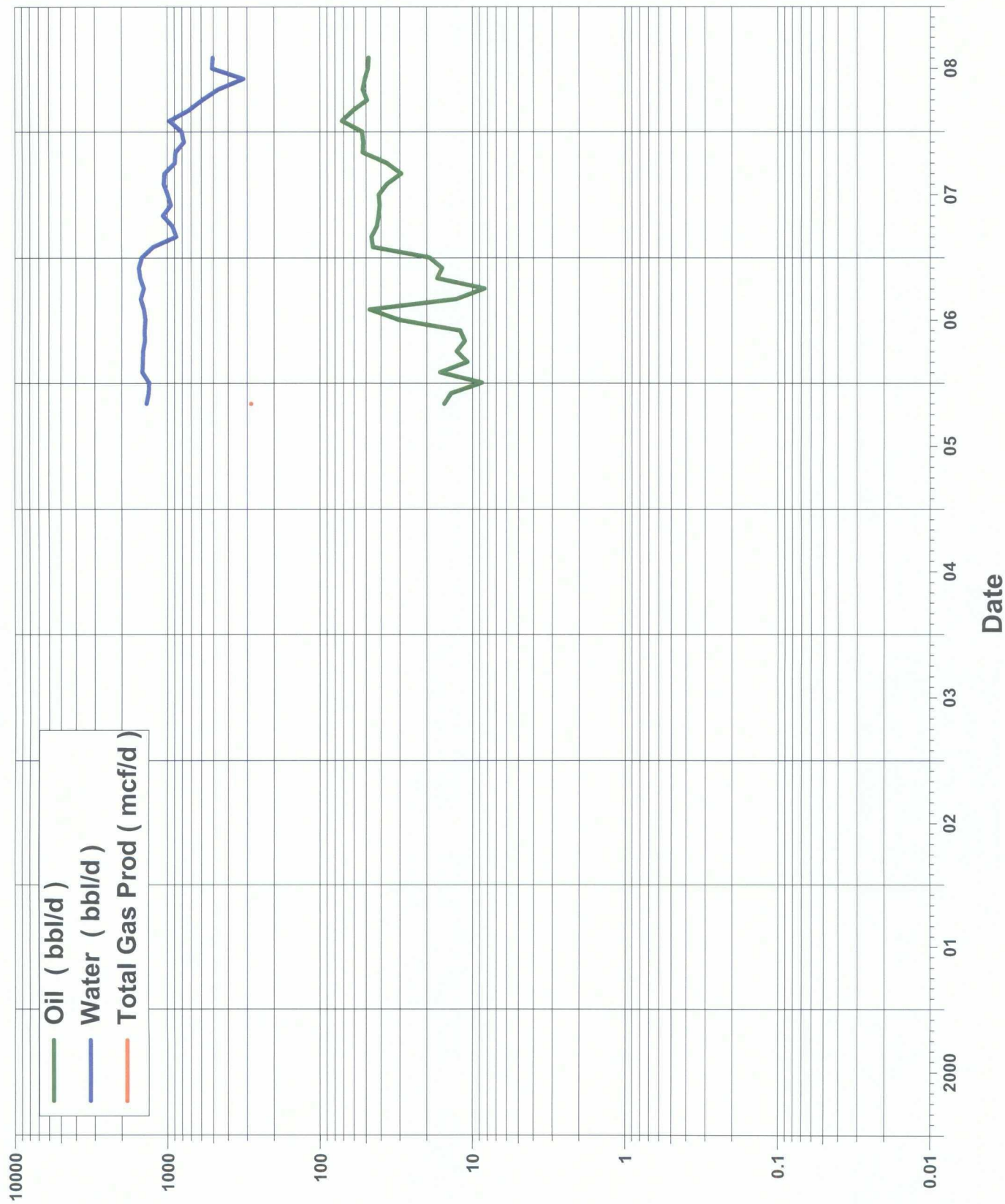
North Hobbs Unit 24411



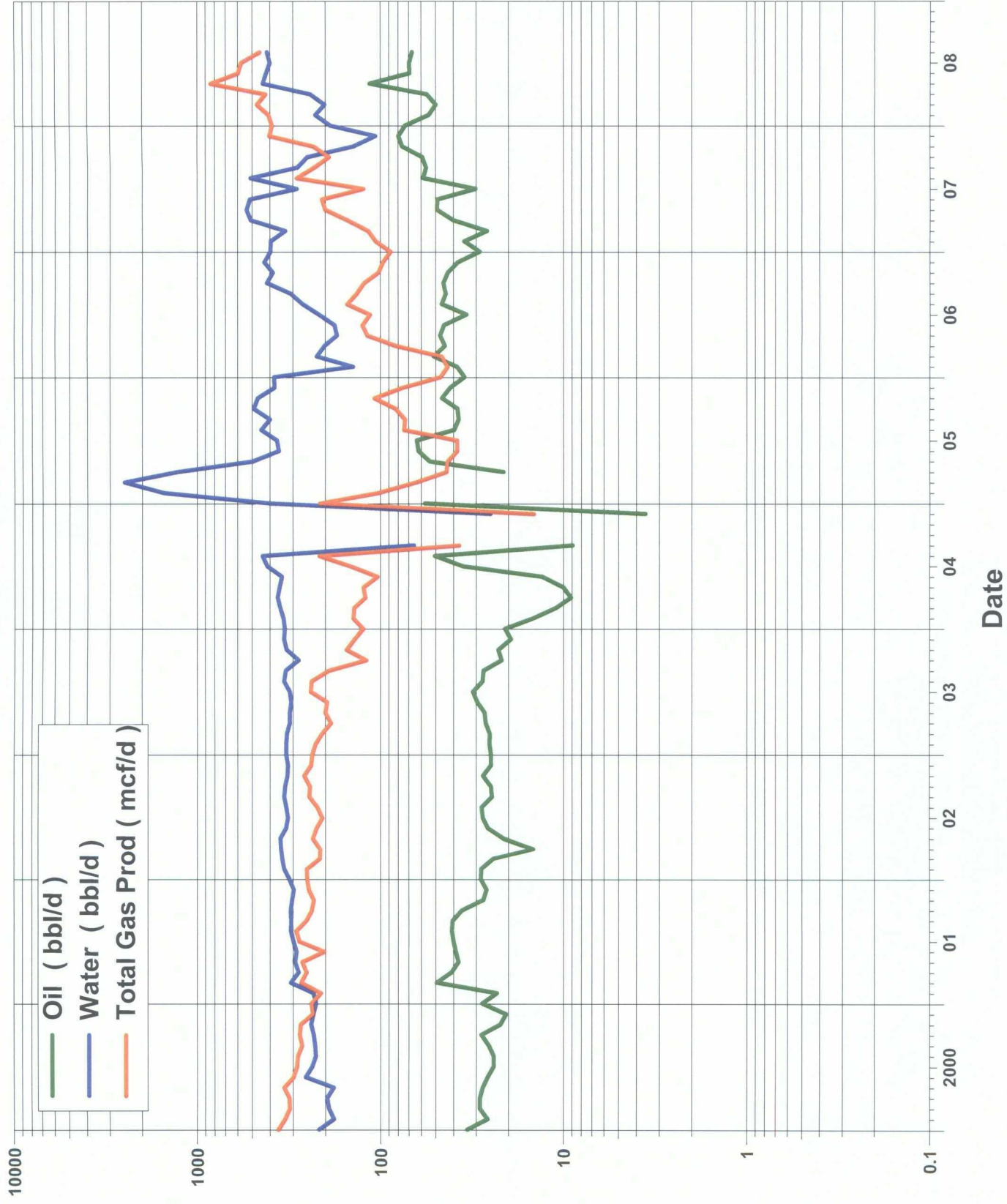
North Hobbs Unit 32411



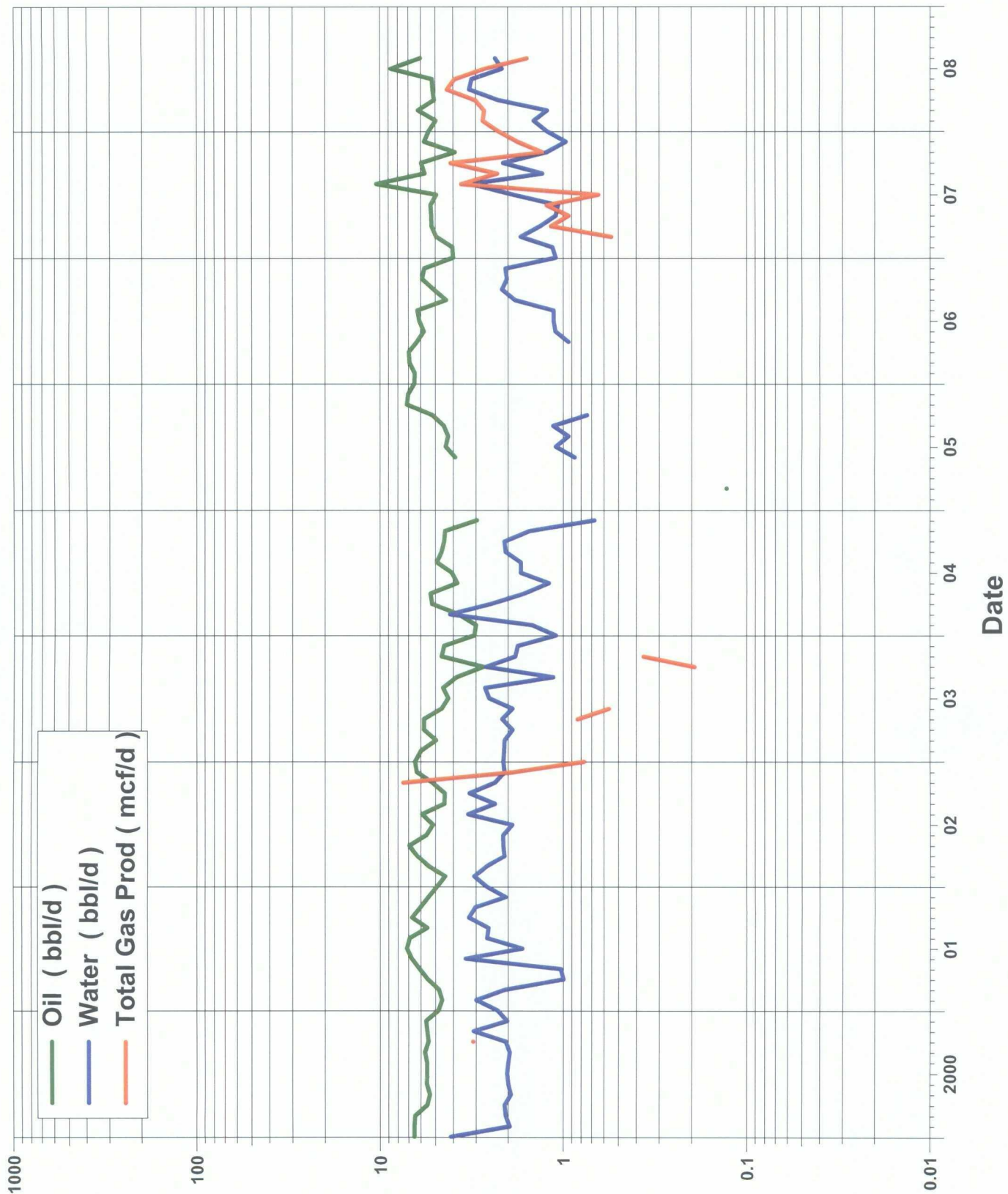
North Hobbs Unit 24412



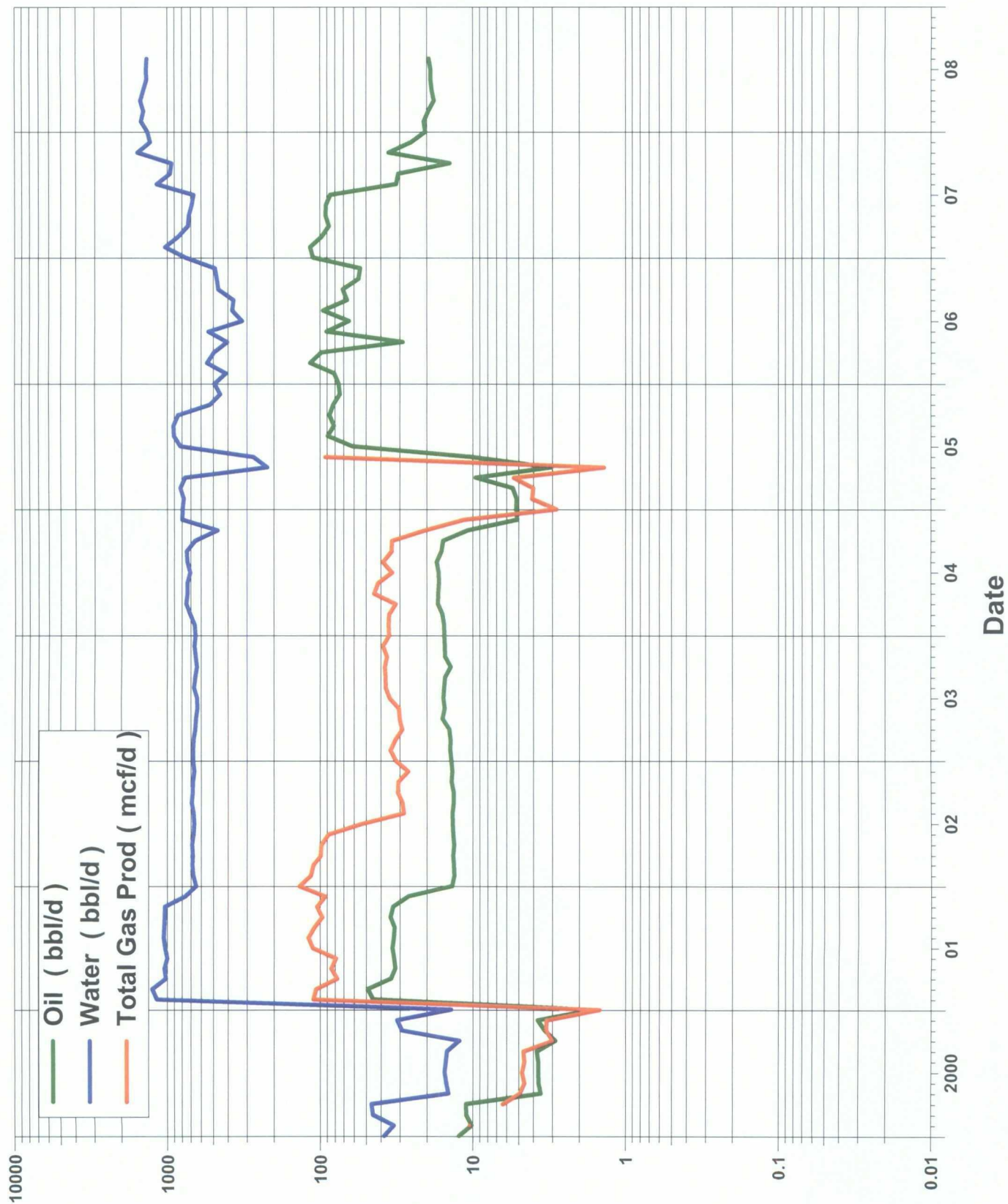
North Hobbs Unit 30412



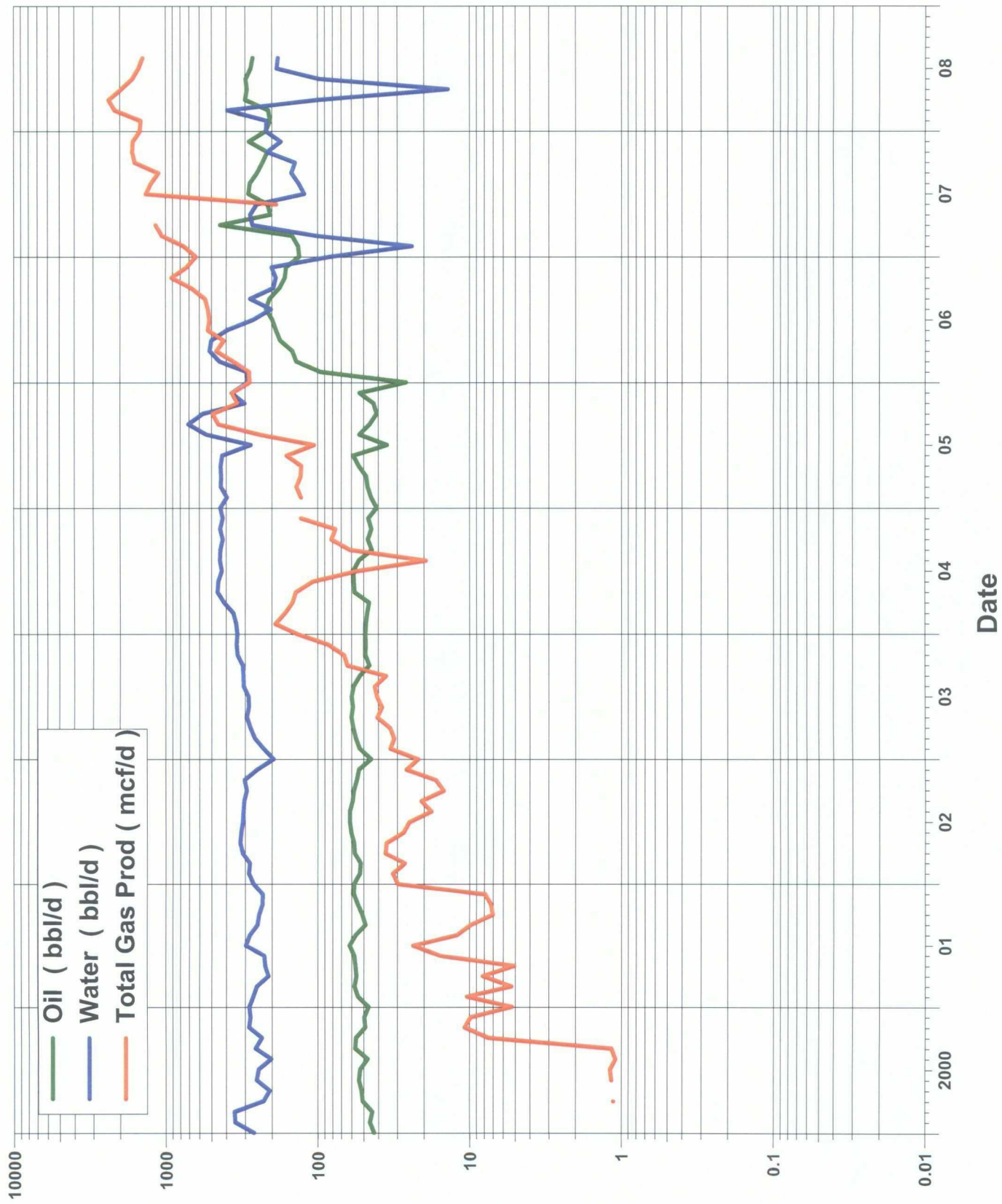
North Hobbs Unit 14421



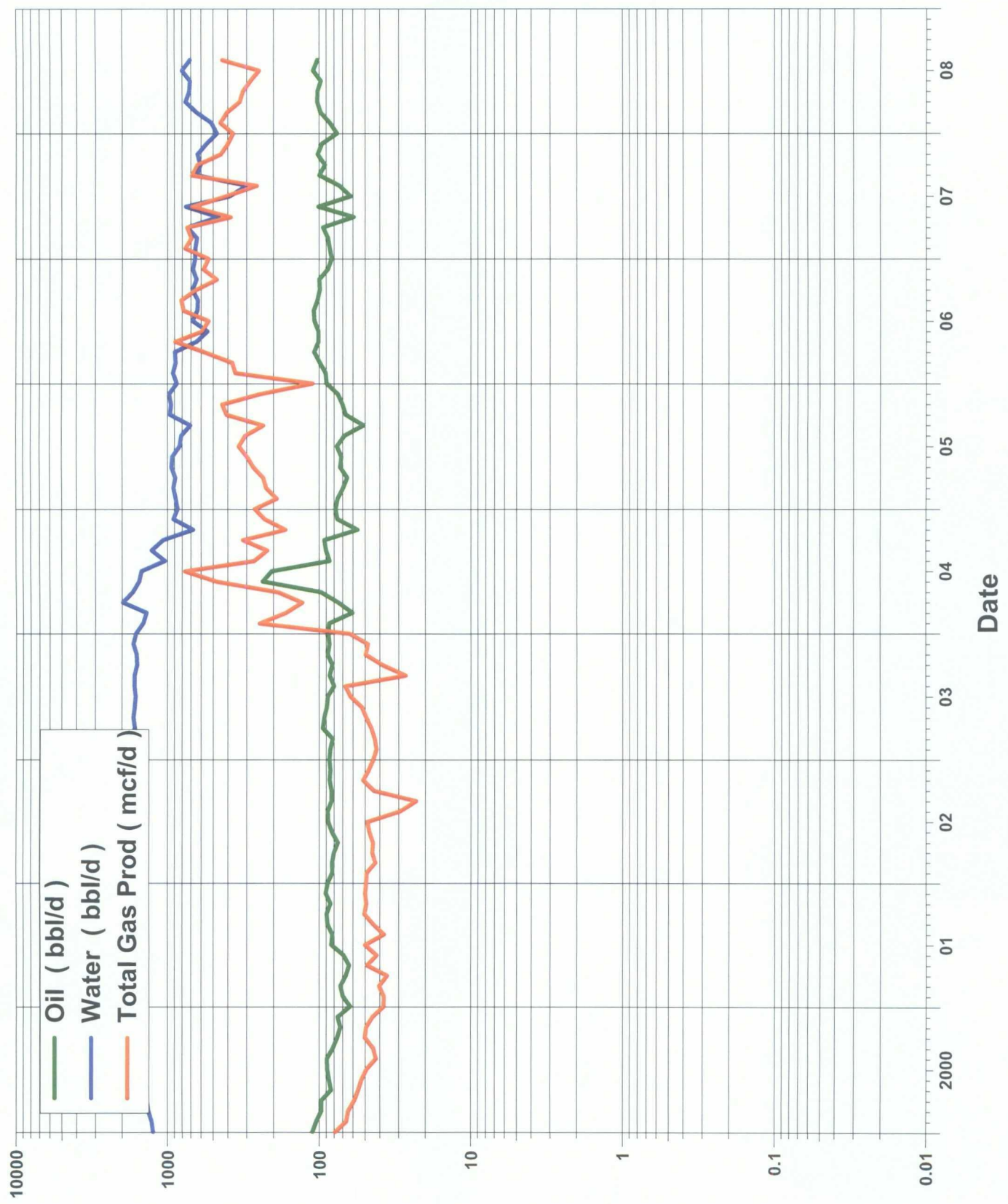
North Hobbs Unit 23421



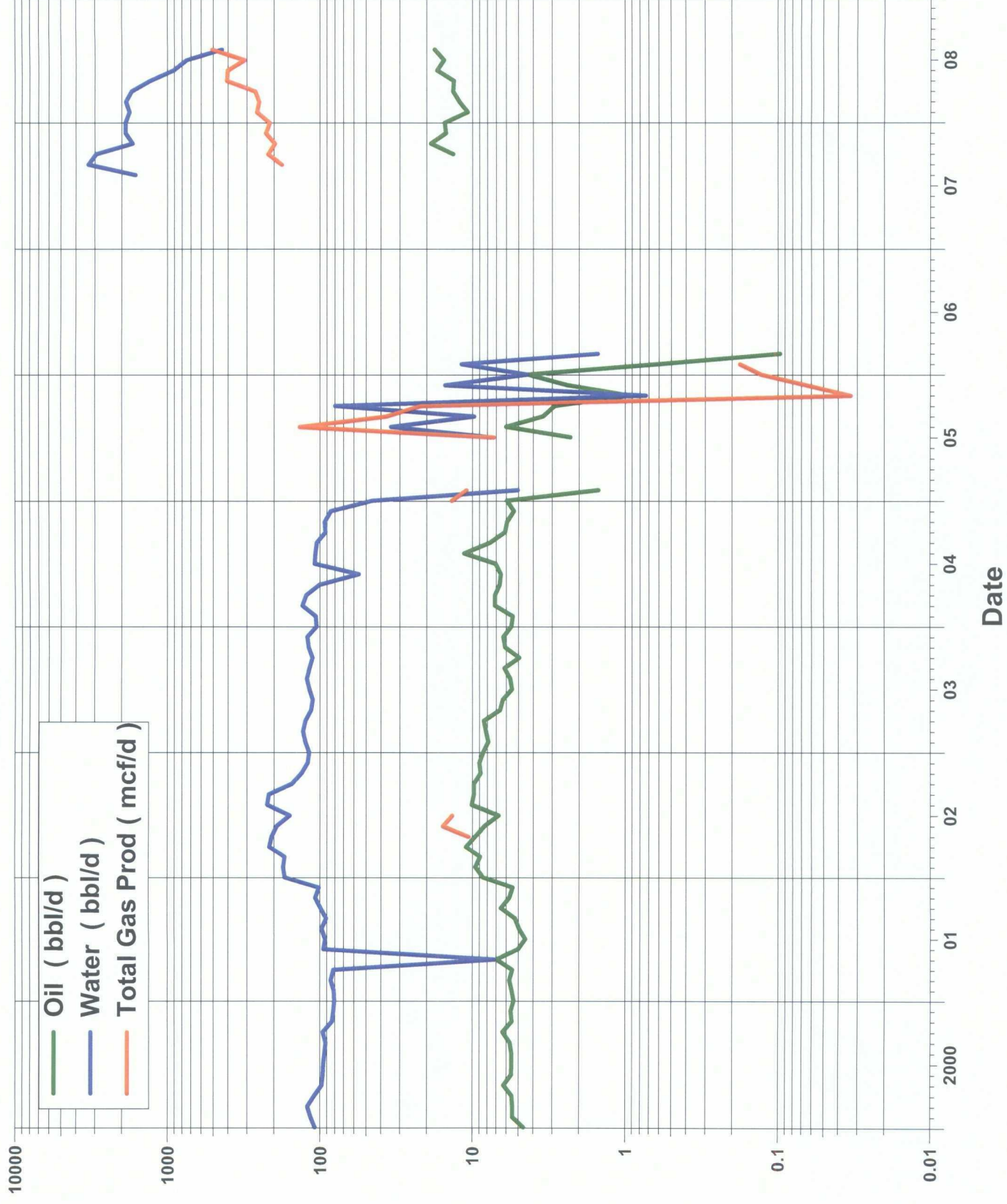
North Hobbs Unit 25421



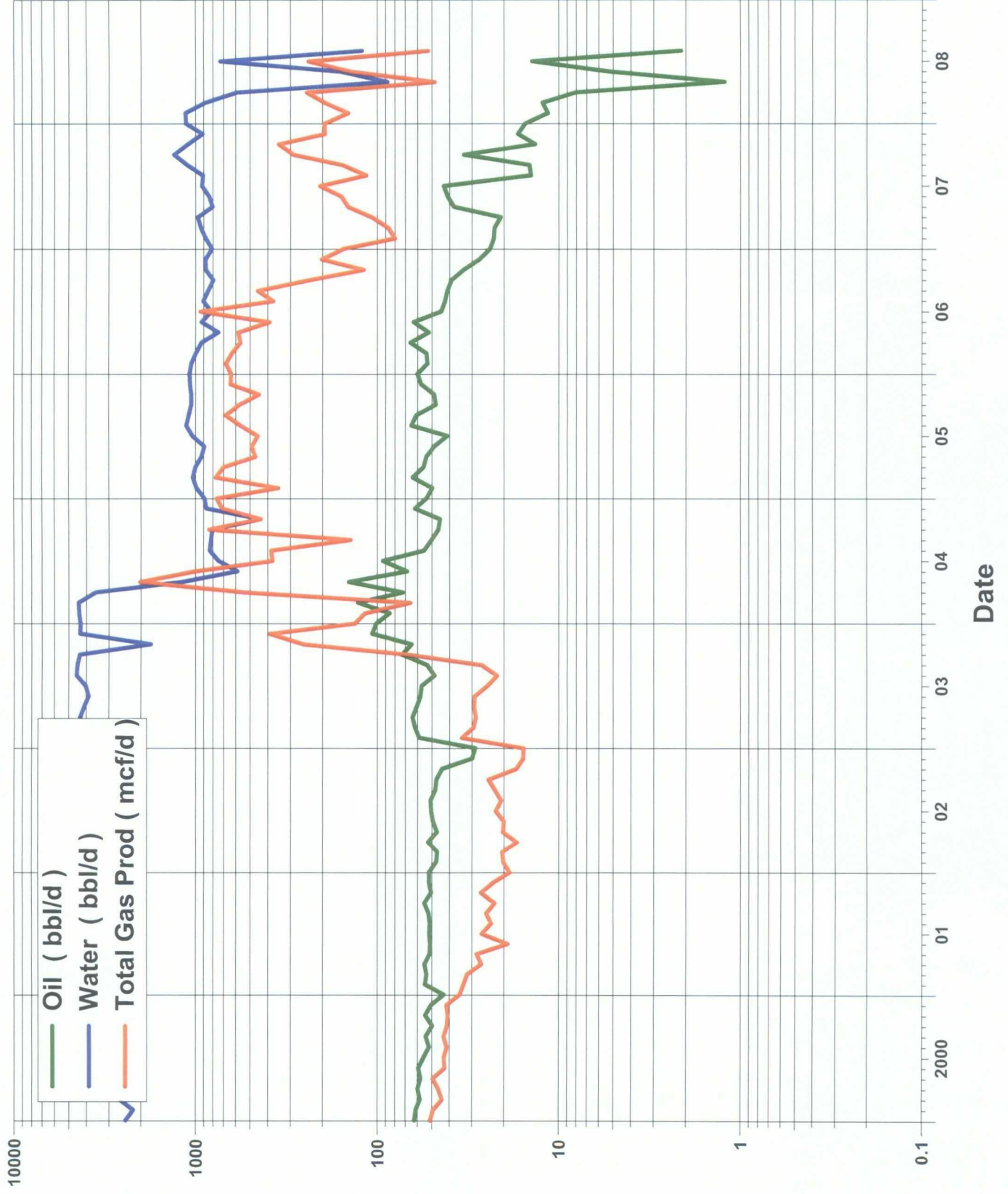
North Hobbs Unit 30421



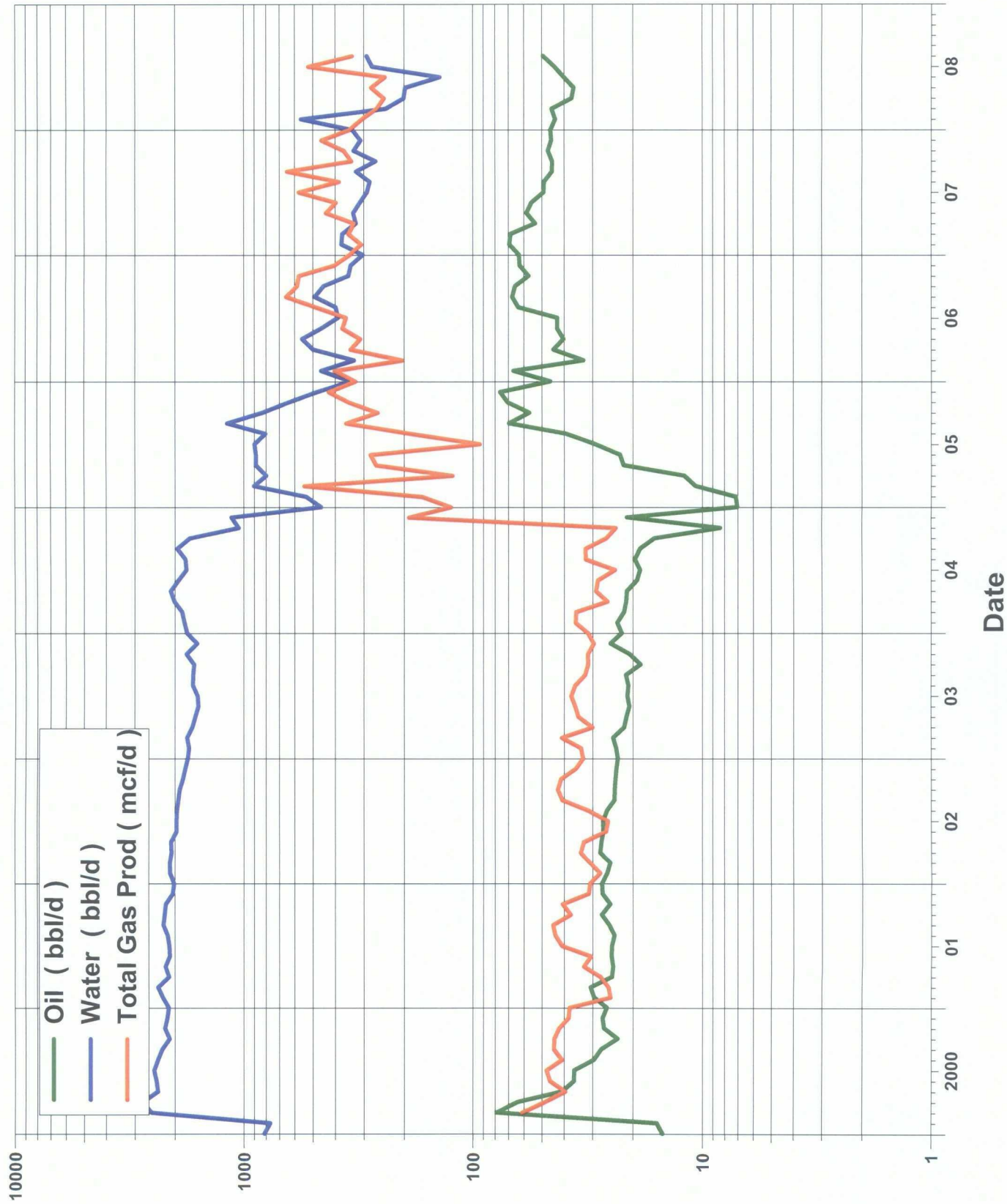
North Hobbs Unit 31421WS



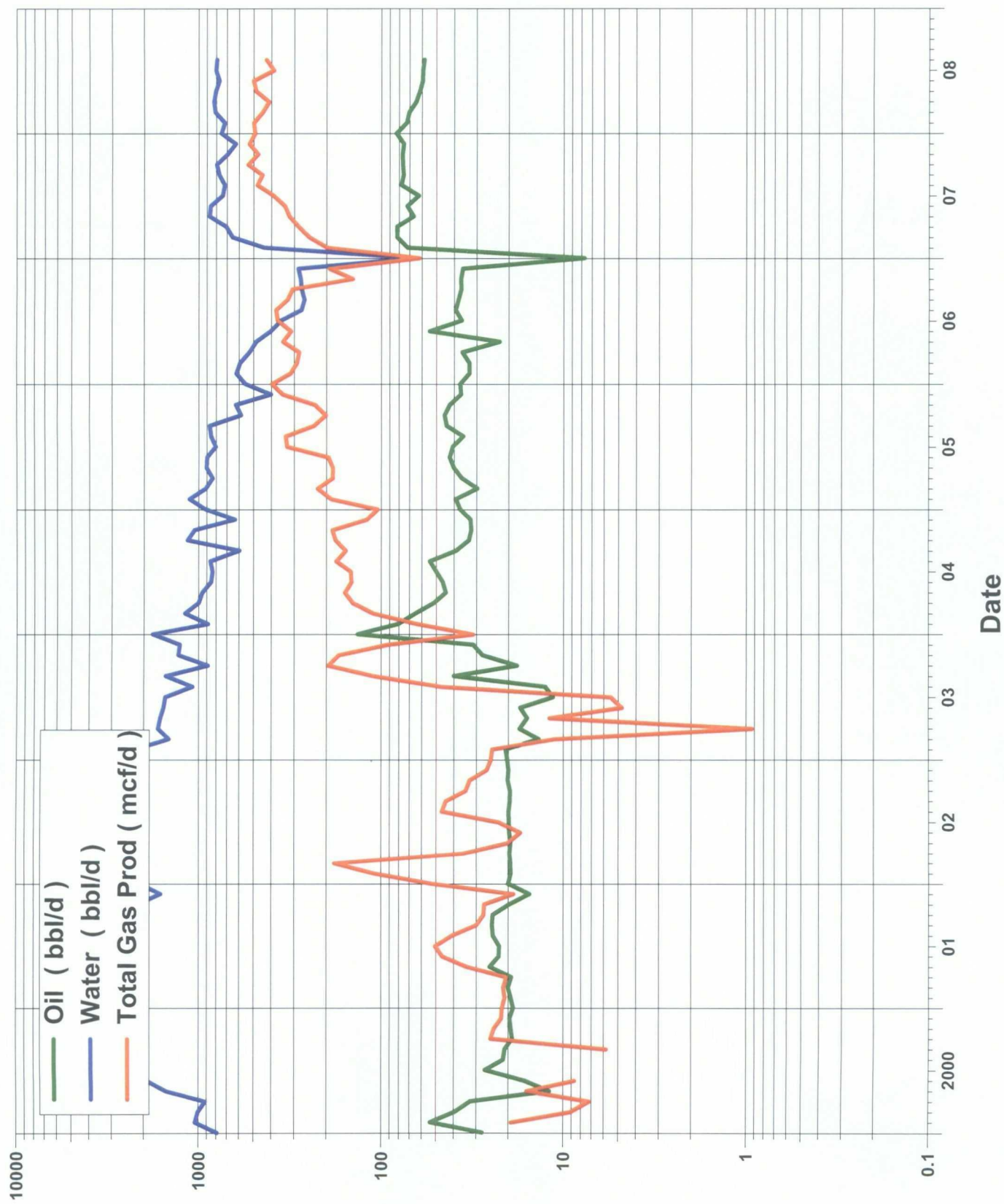
North Hobbs Unit 32421



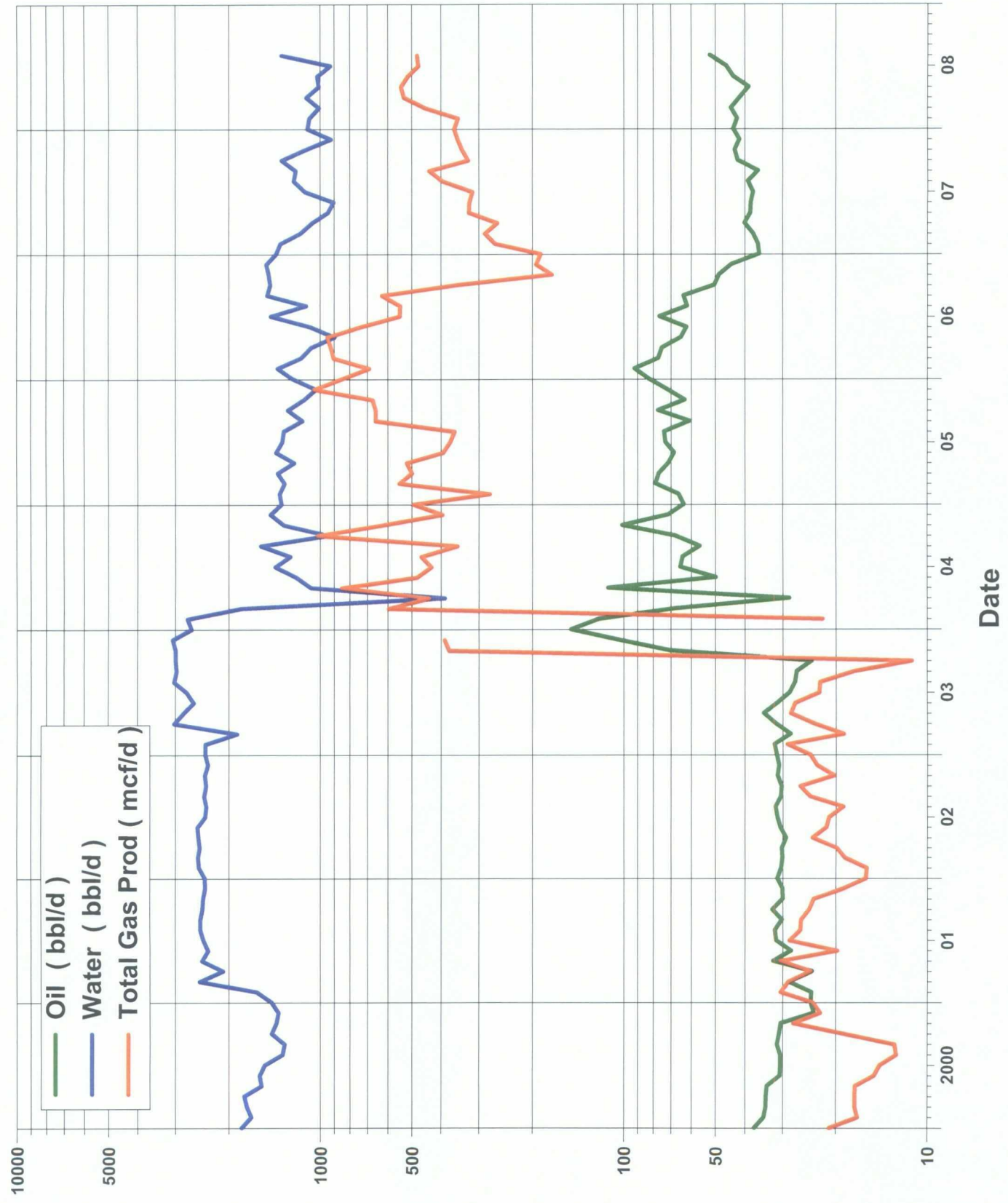
North Hobbs Unit 24421



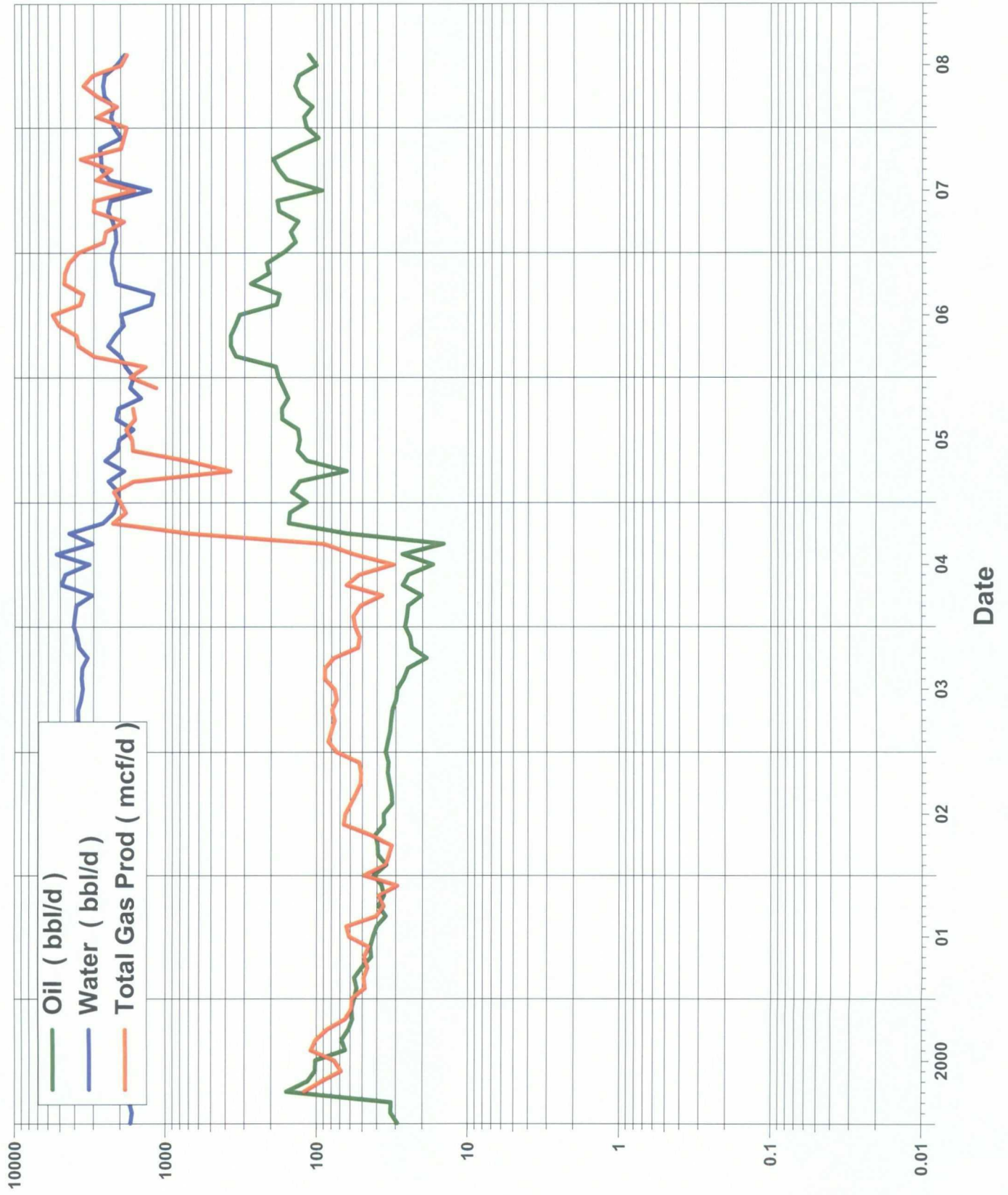
North Hobbs Unit 31422



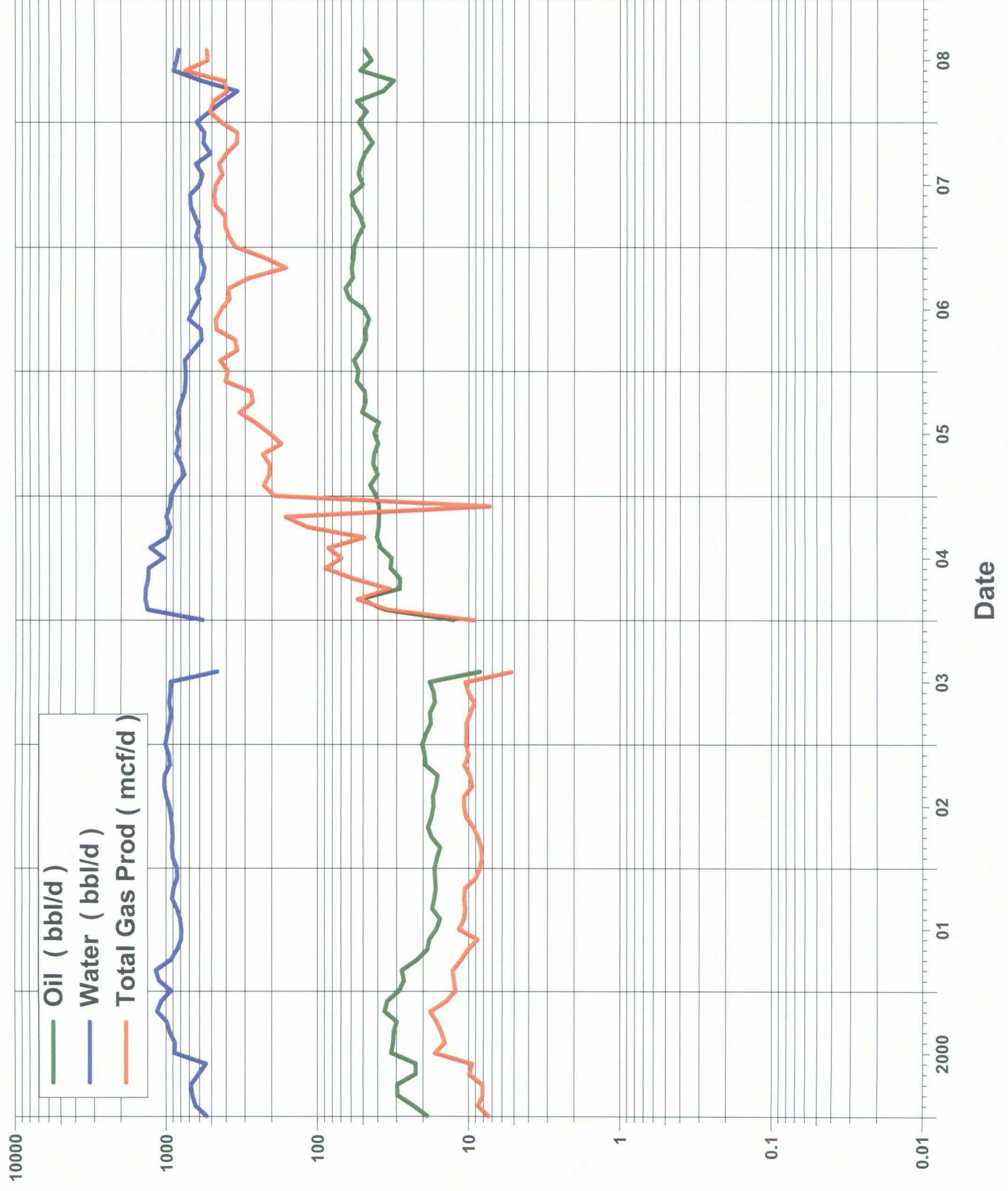
North Hobbs Unit 32424



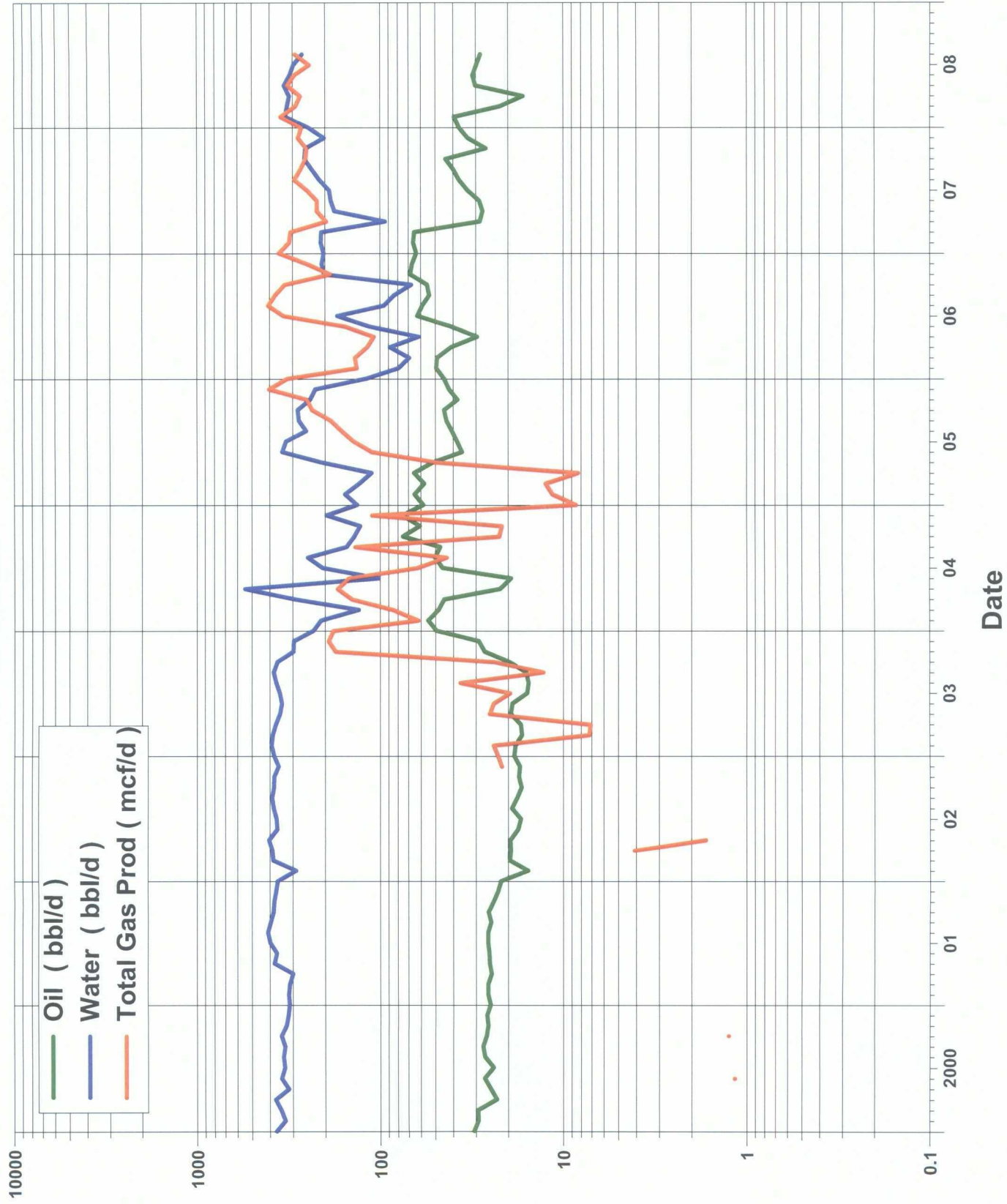
North Hobbs Unit 24431



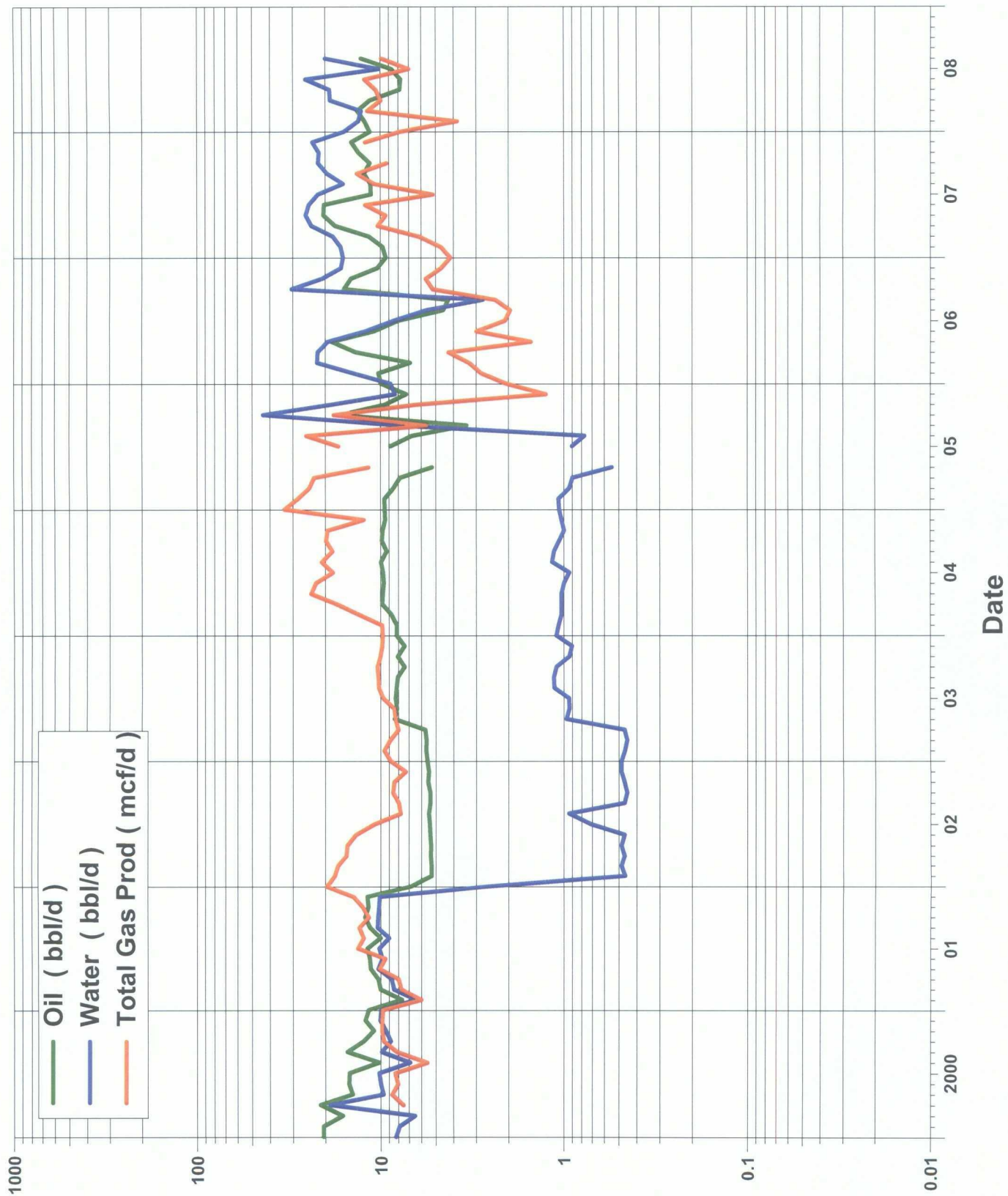
North Hobbs Unit 29431



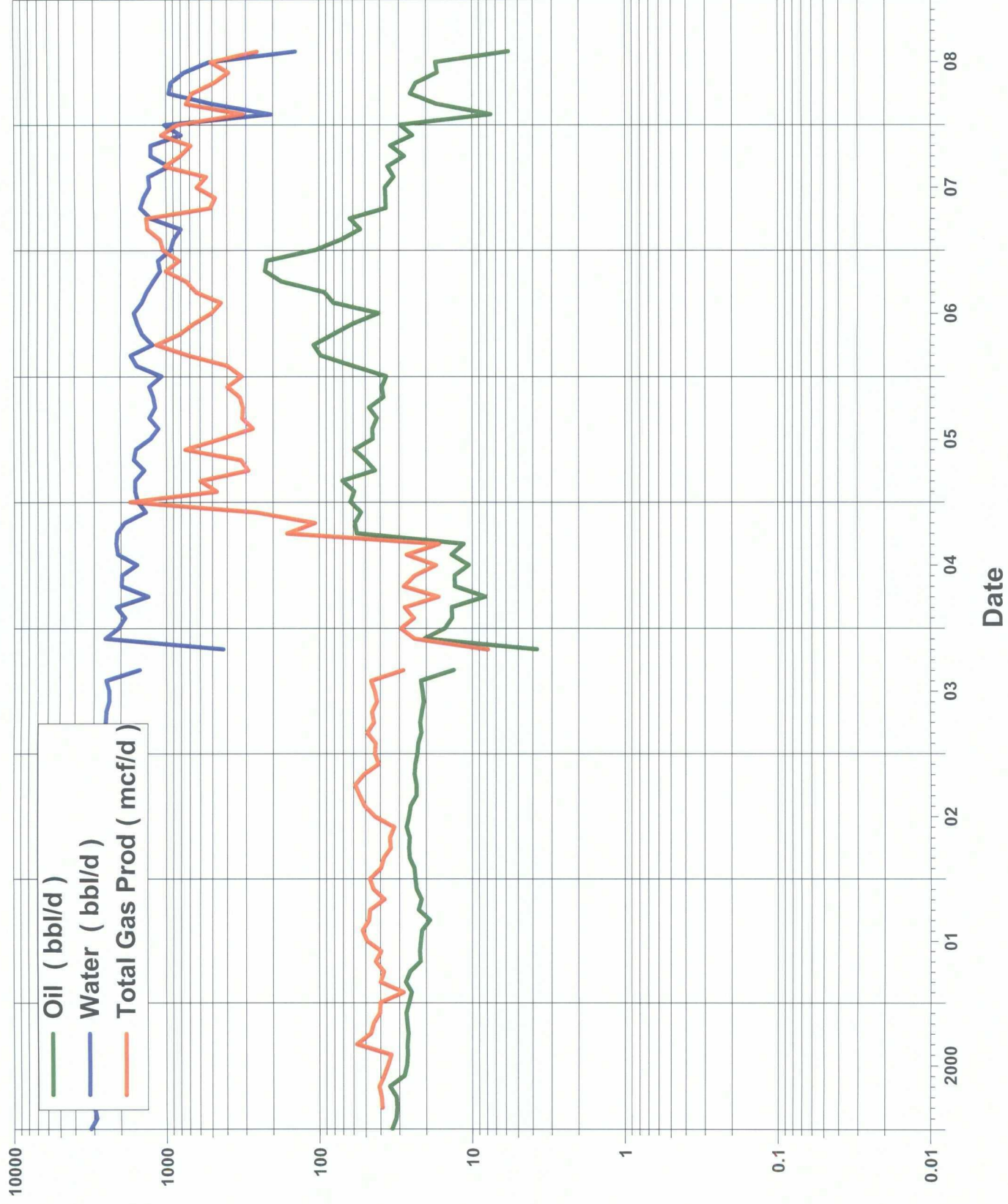
North Hobbs Unit 31431



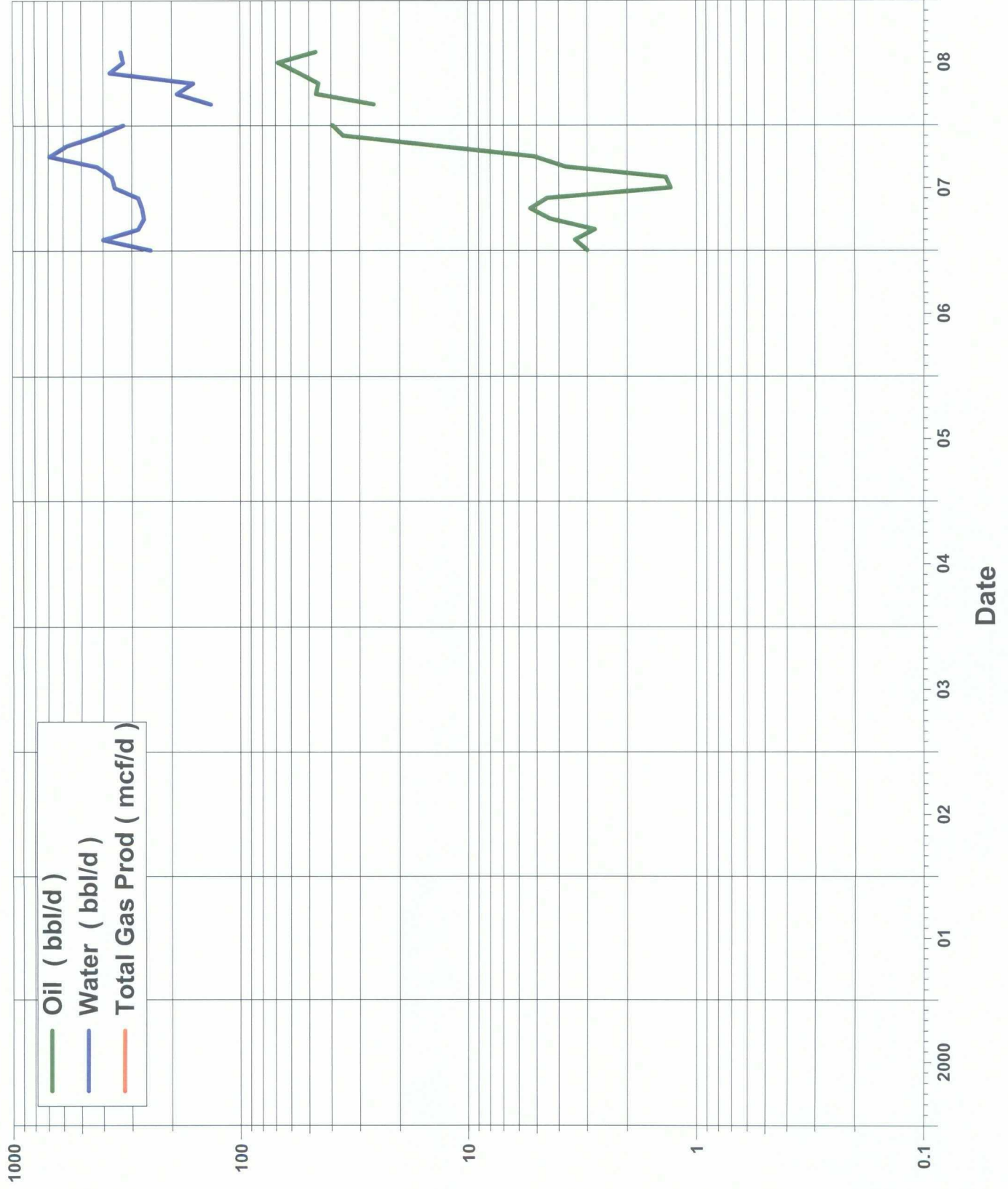
North Hobbs Unit 23441



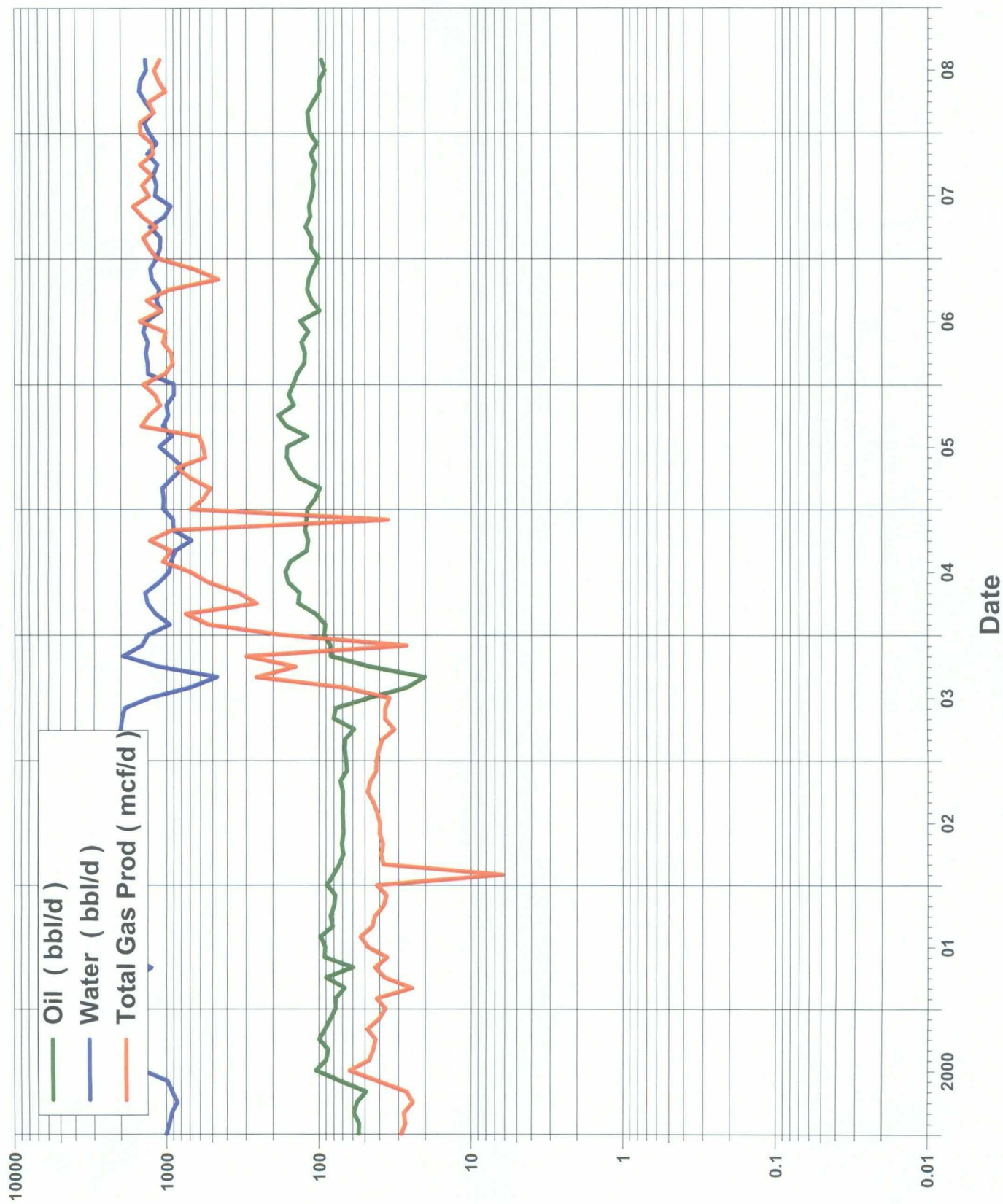
North Hobbs Unit 24441



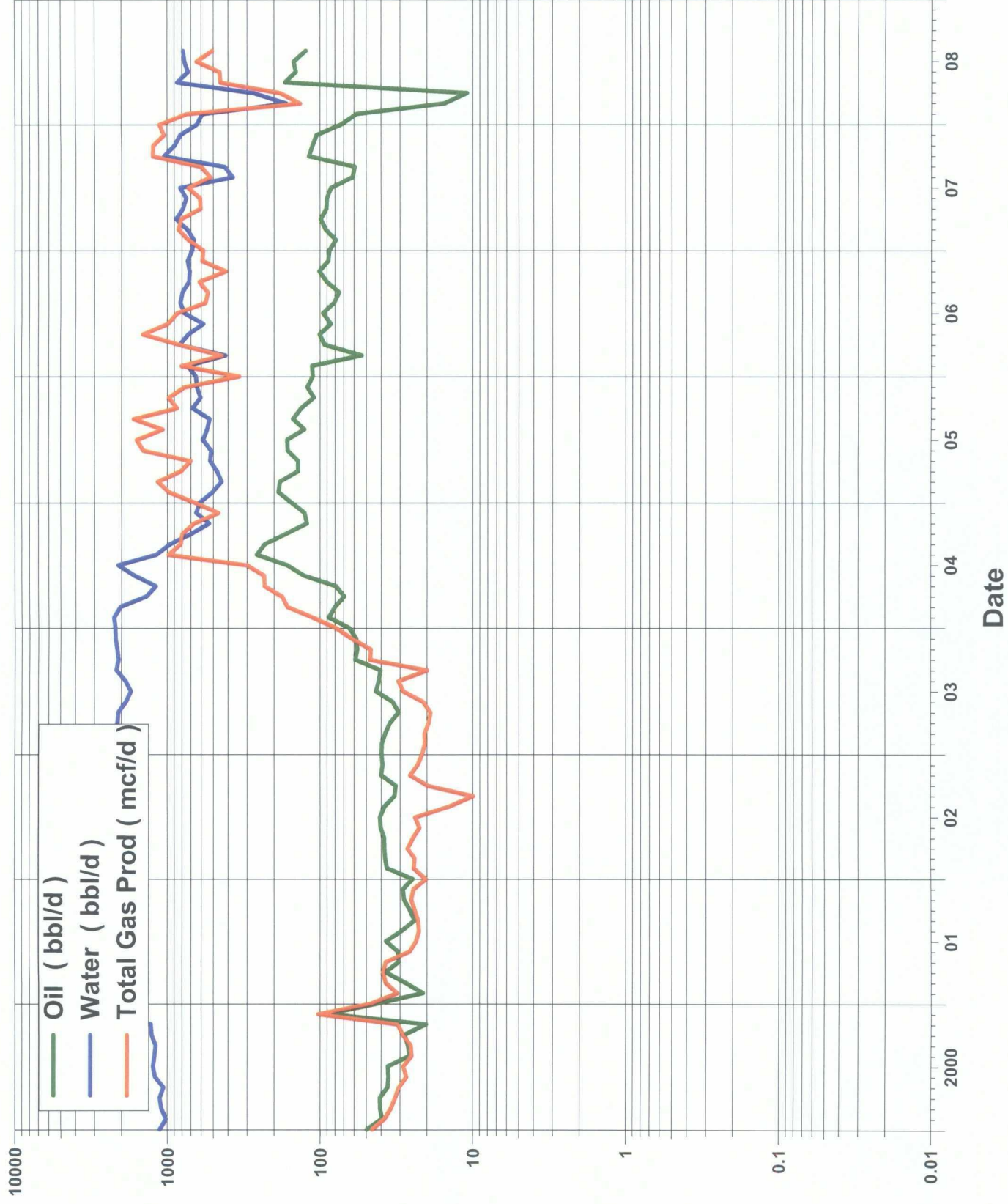
North Hobbs Unit 19441



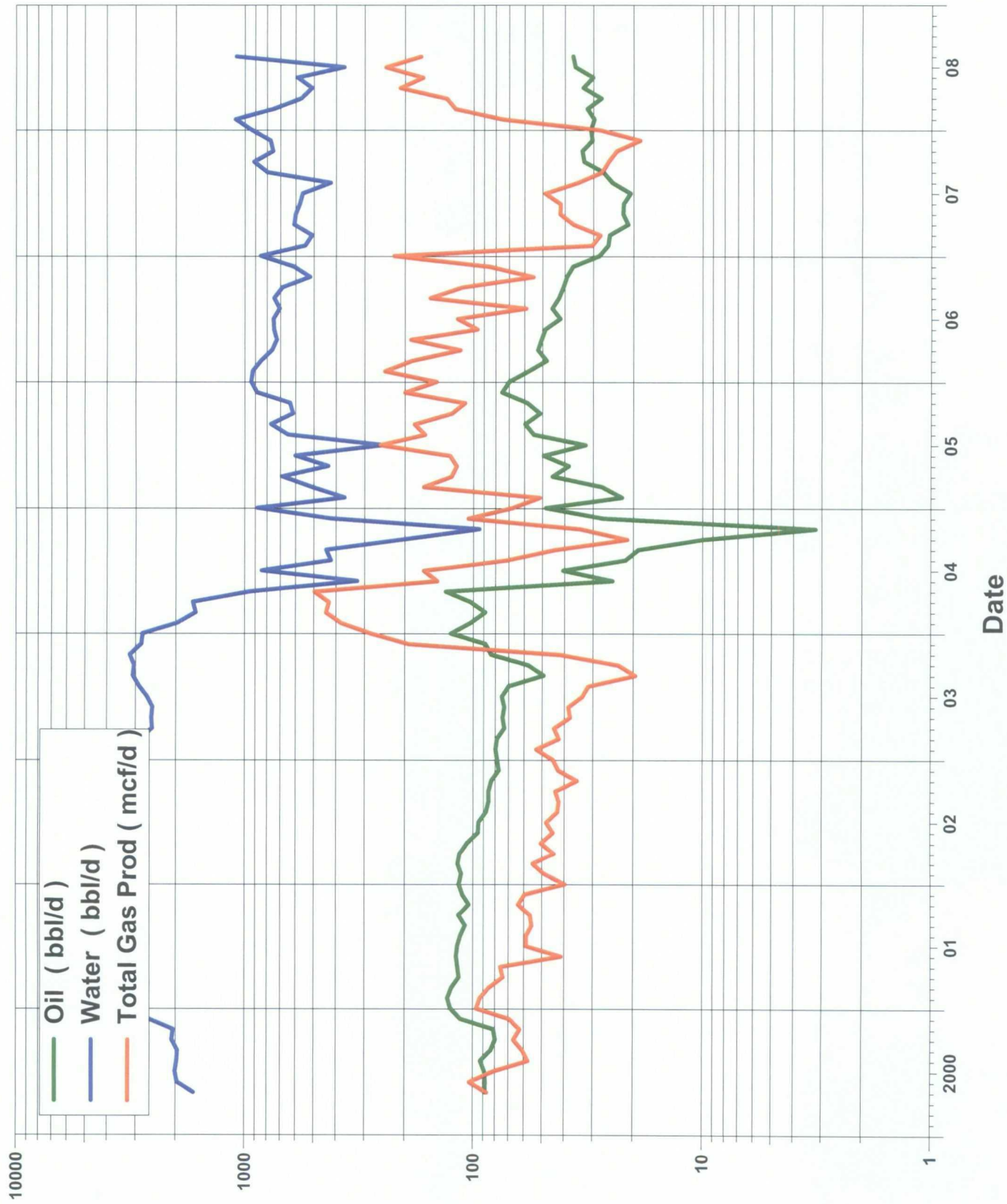
North Hobbs Unit 29441



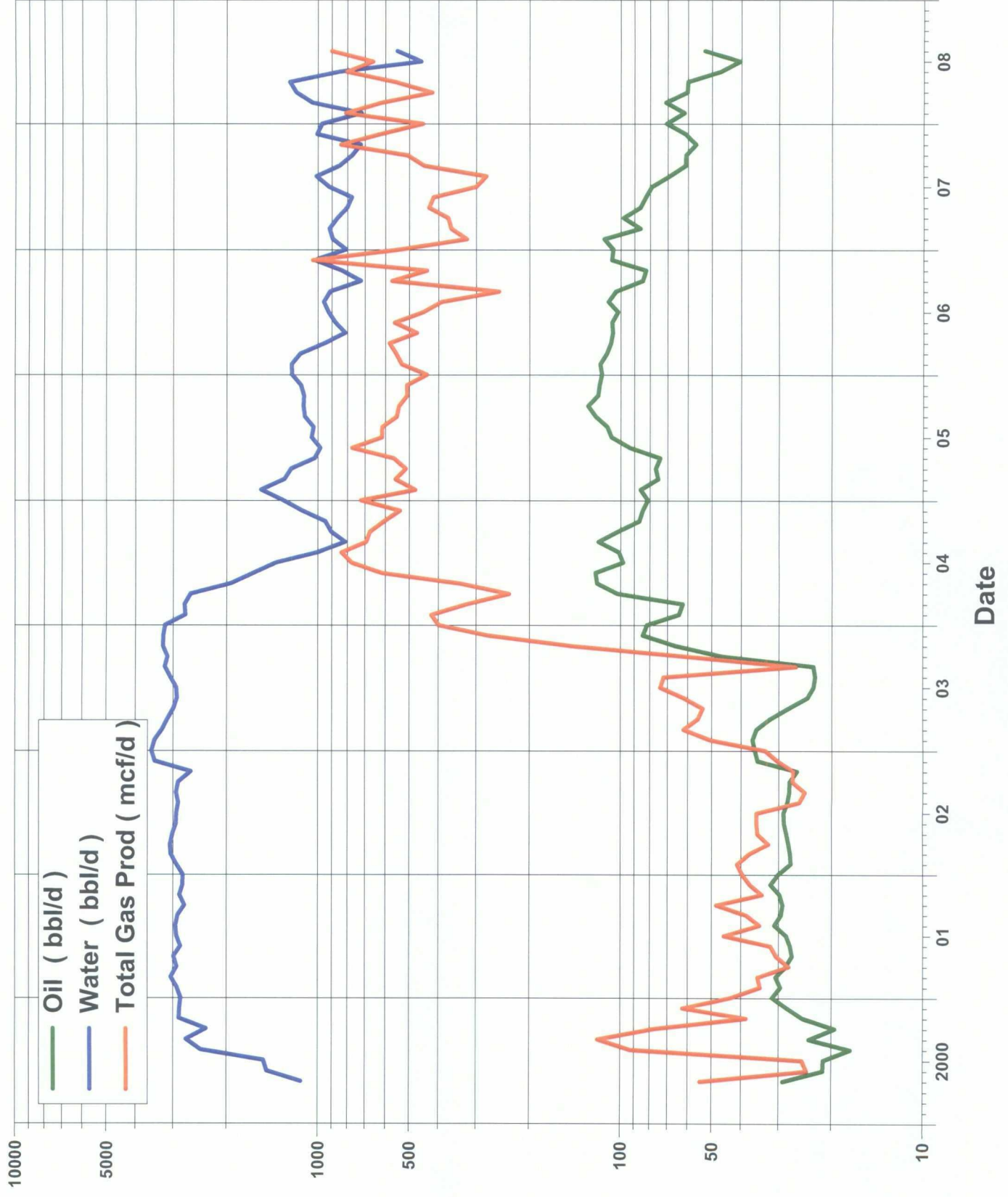
North Hobbs Unit 30441



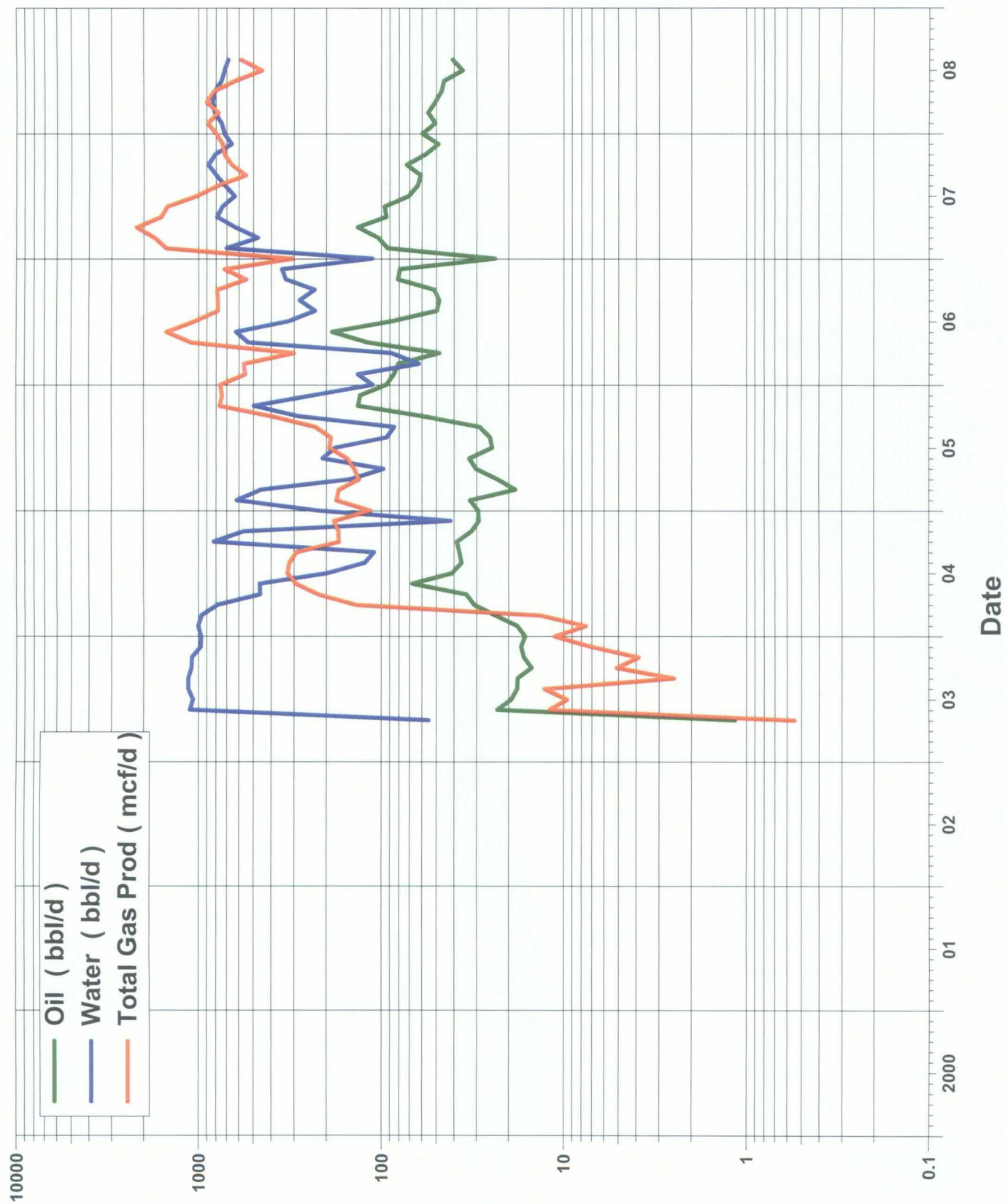
North Hobbs Unit 33511



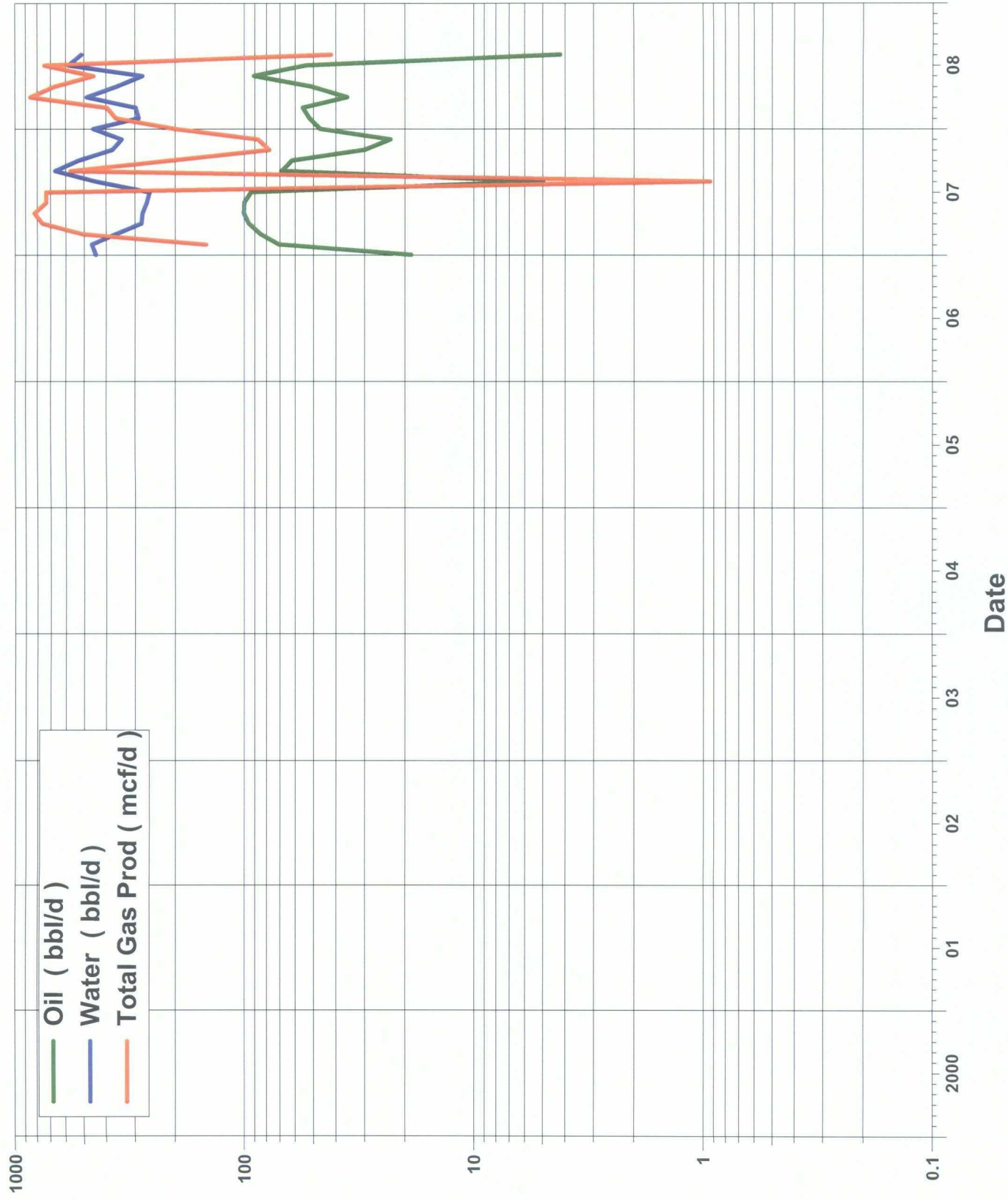
North Hobbs Unit 32512



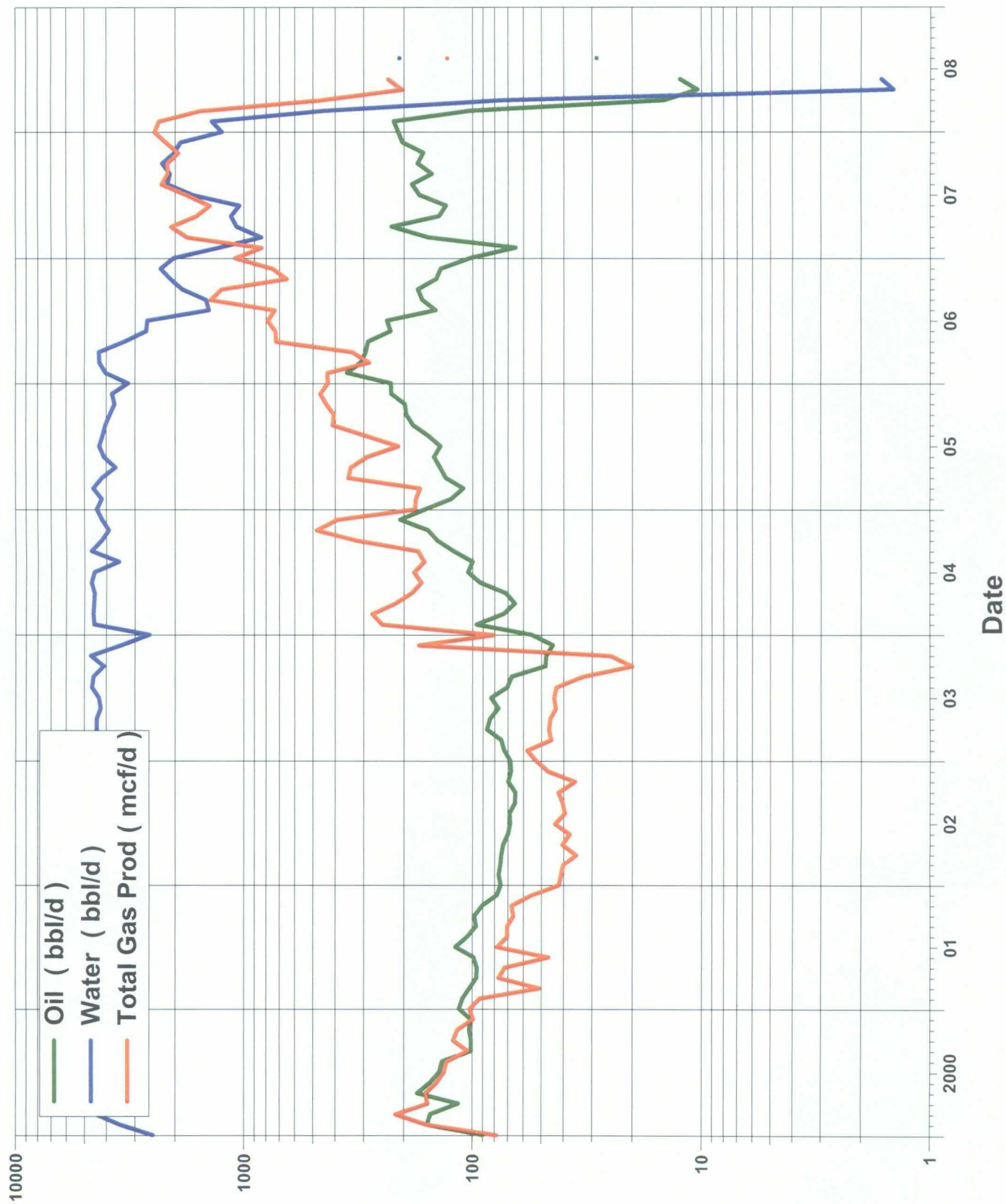
North Hobbs Unit 32514



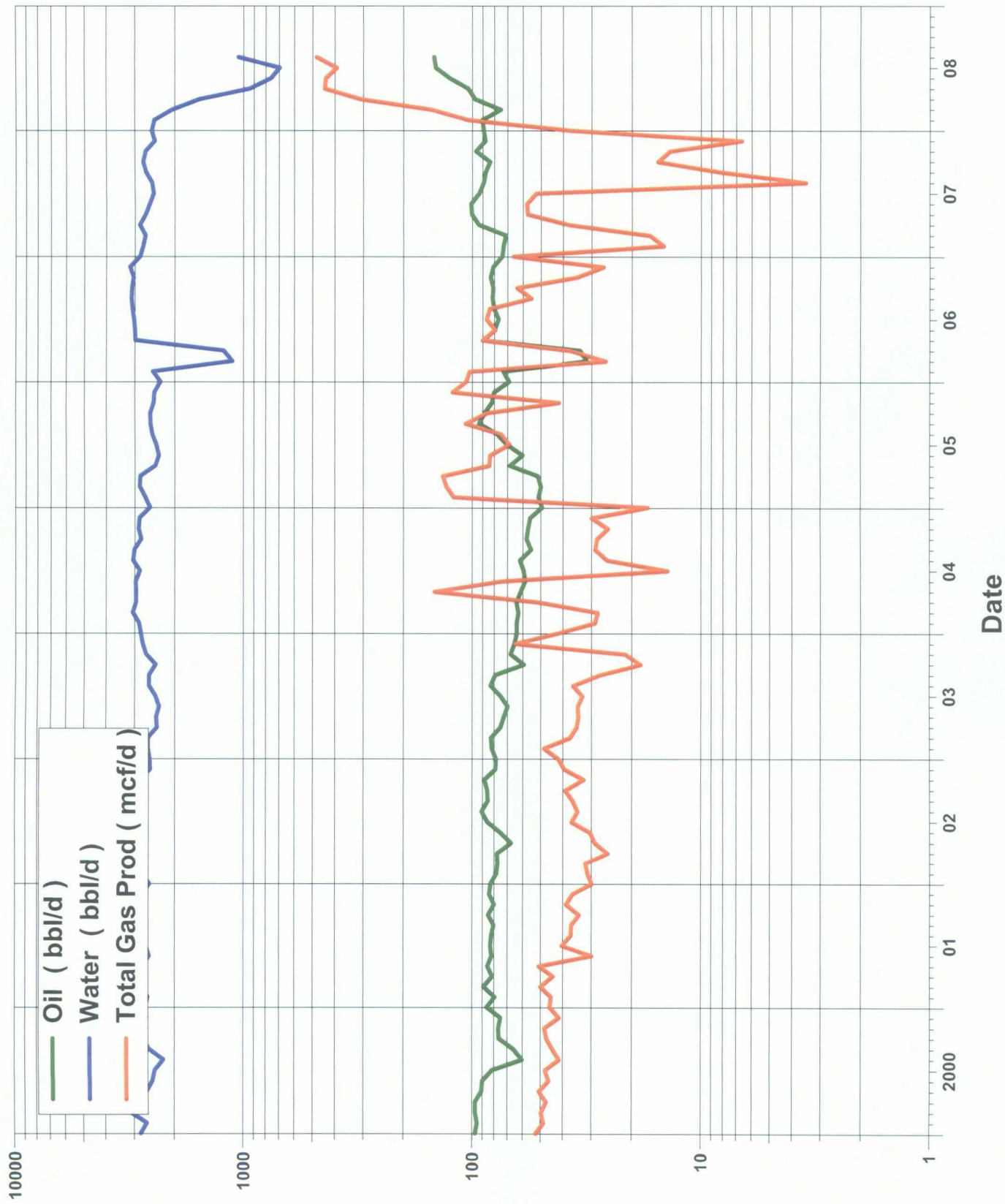
North Hobbs Unit 18517



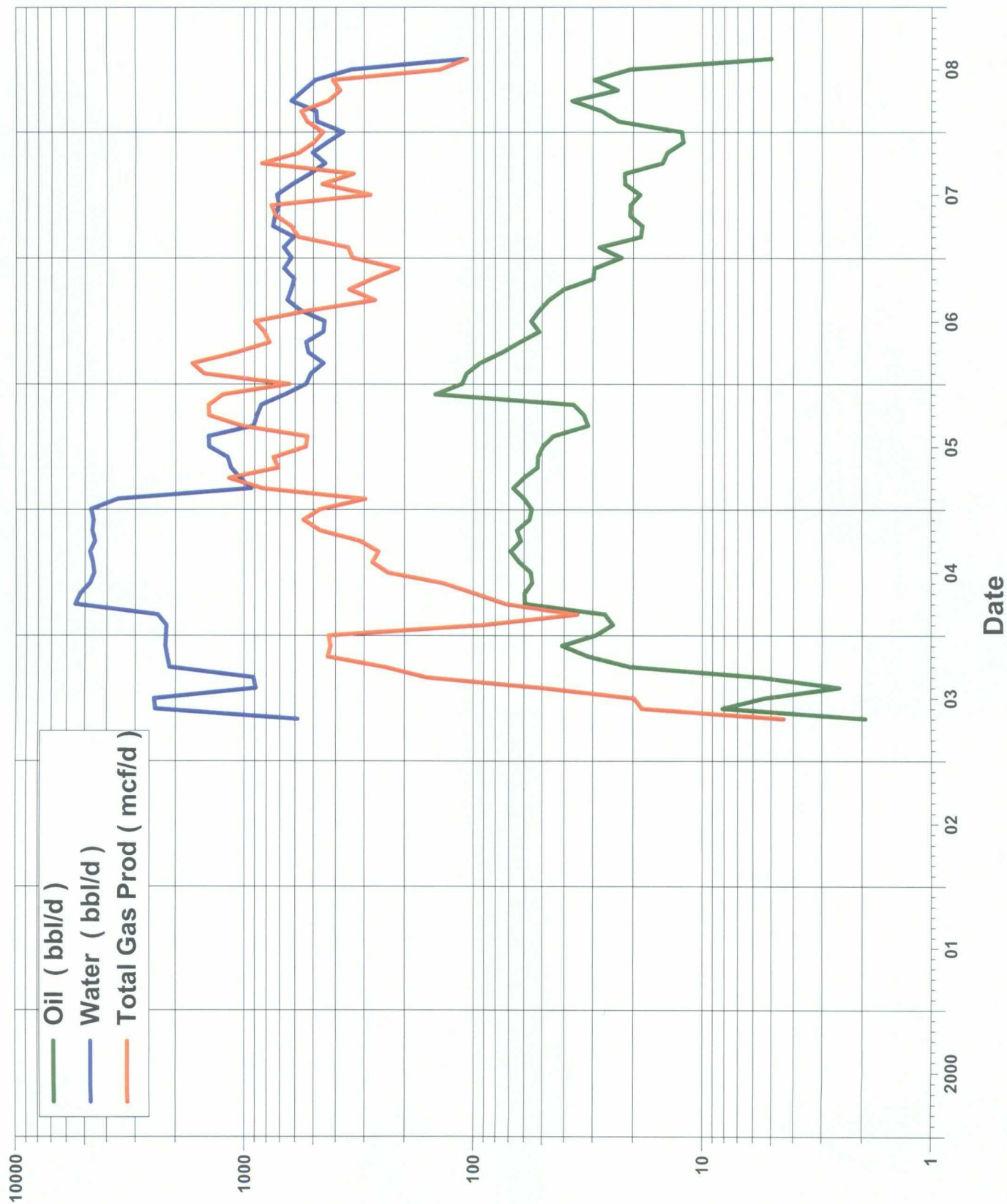
North Hobbs Unit 33521



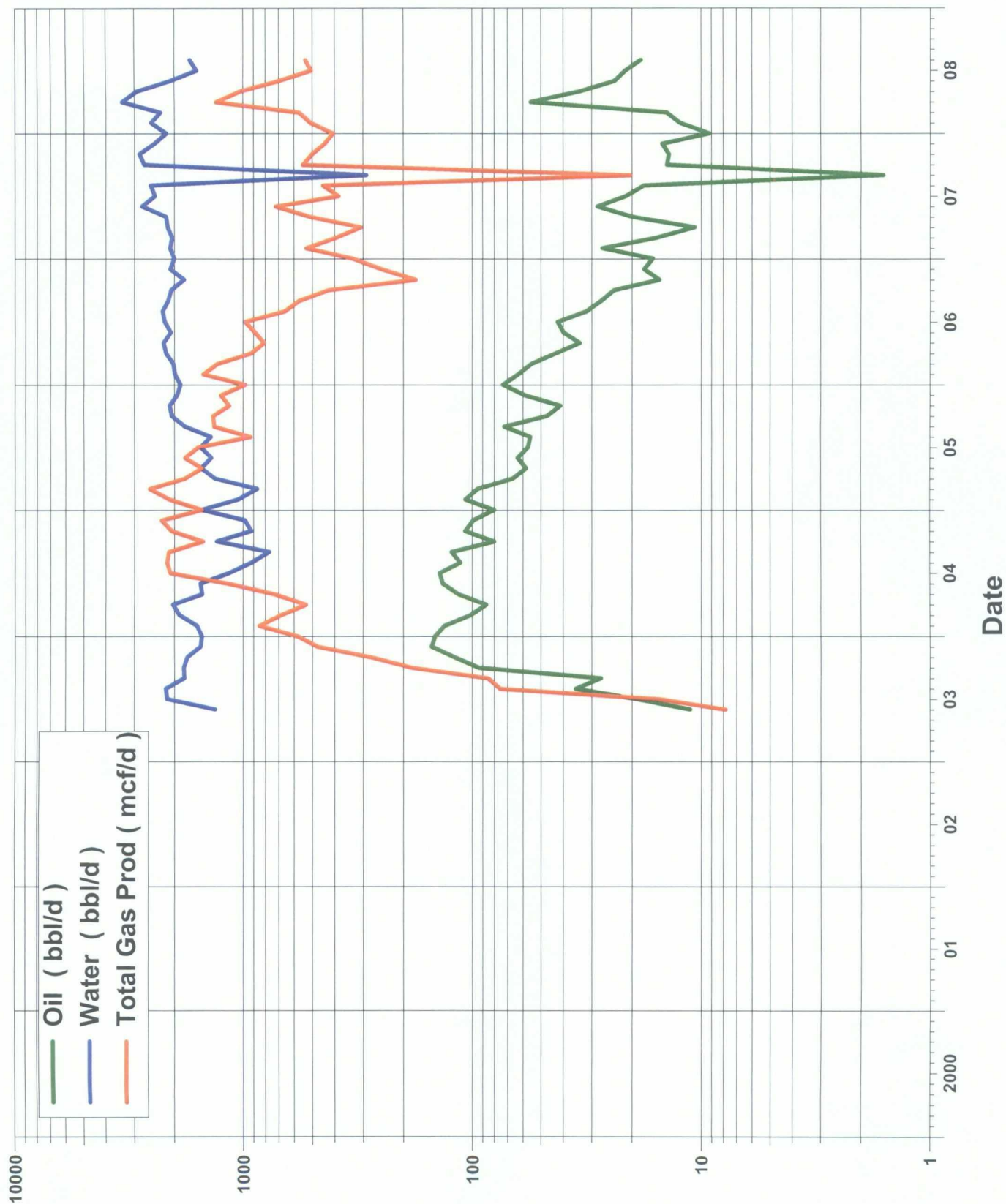
North Hobbs Unit 33523



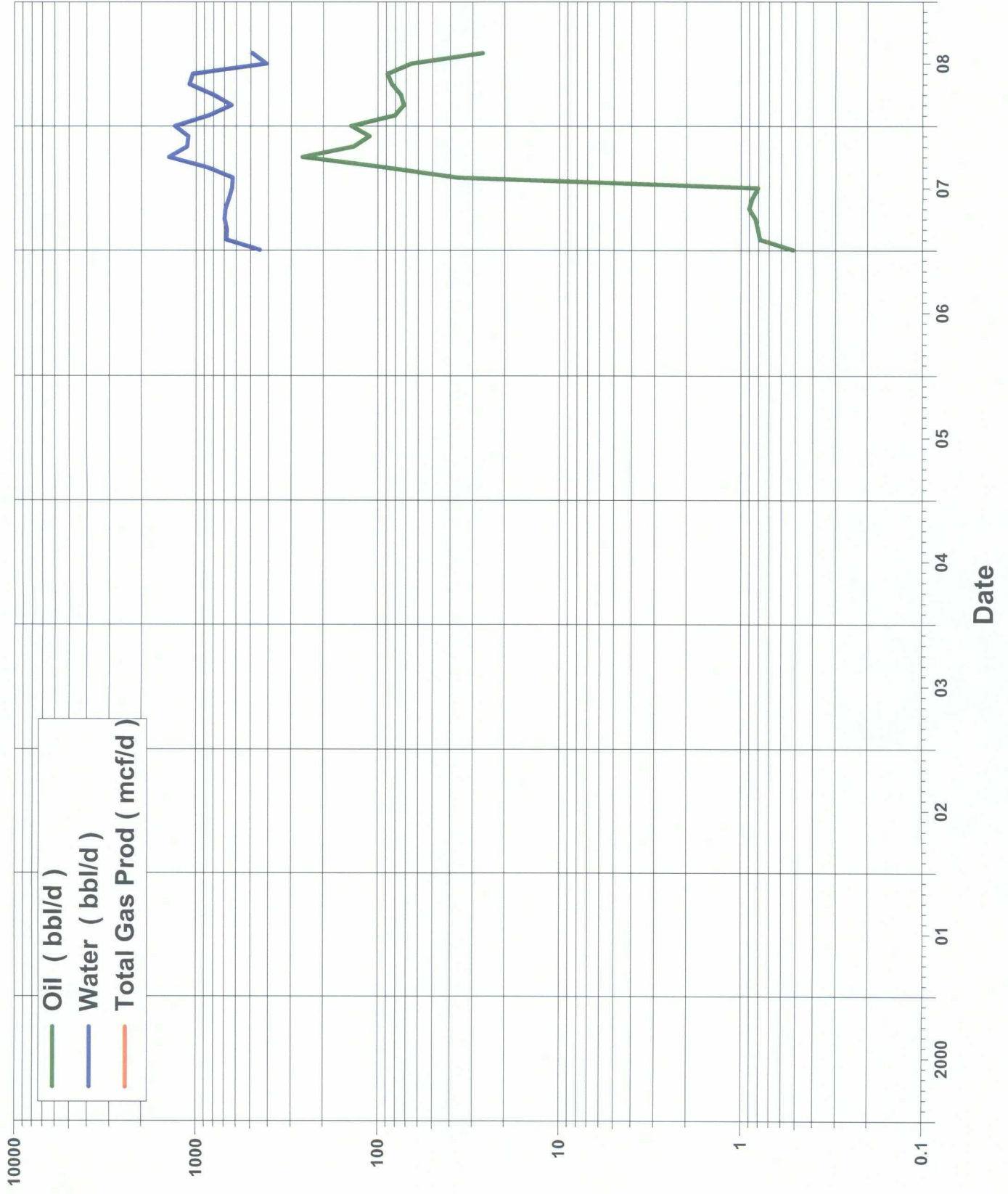
North Hobbs Unit 30525



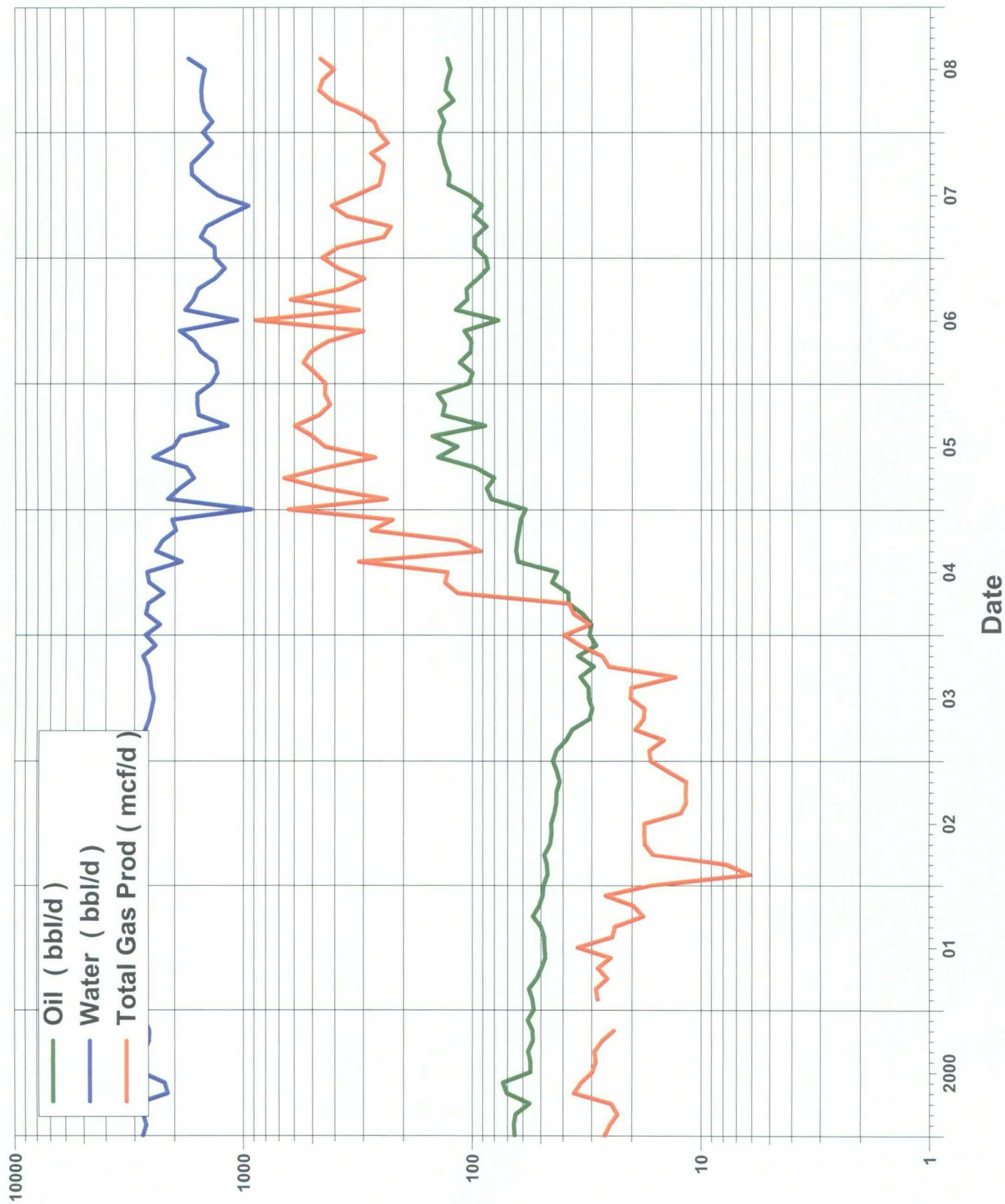
North Hobbs Unit 30527



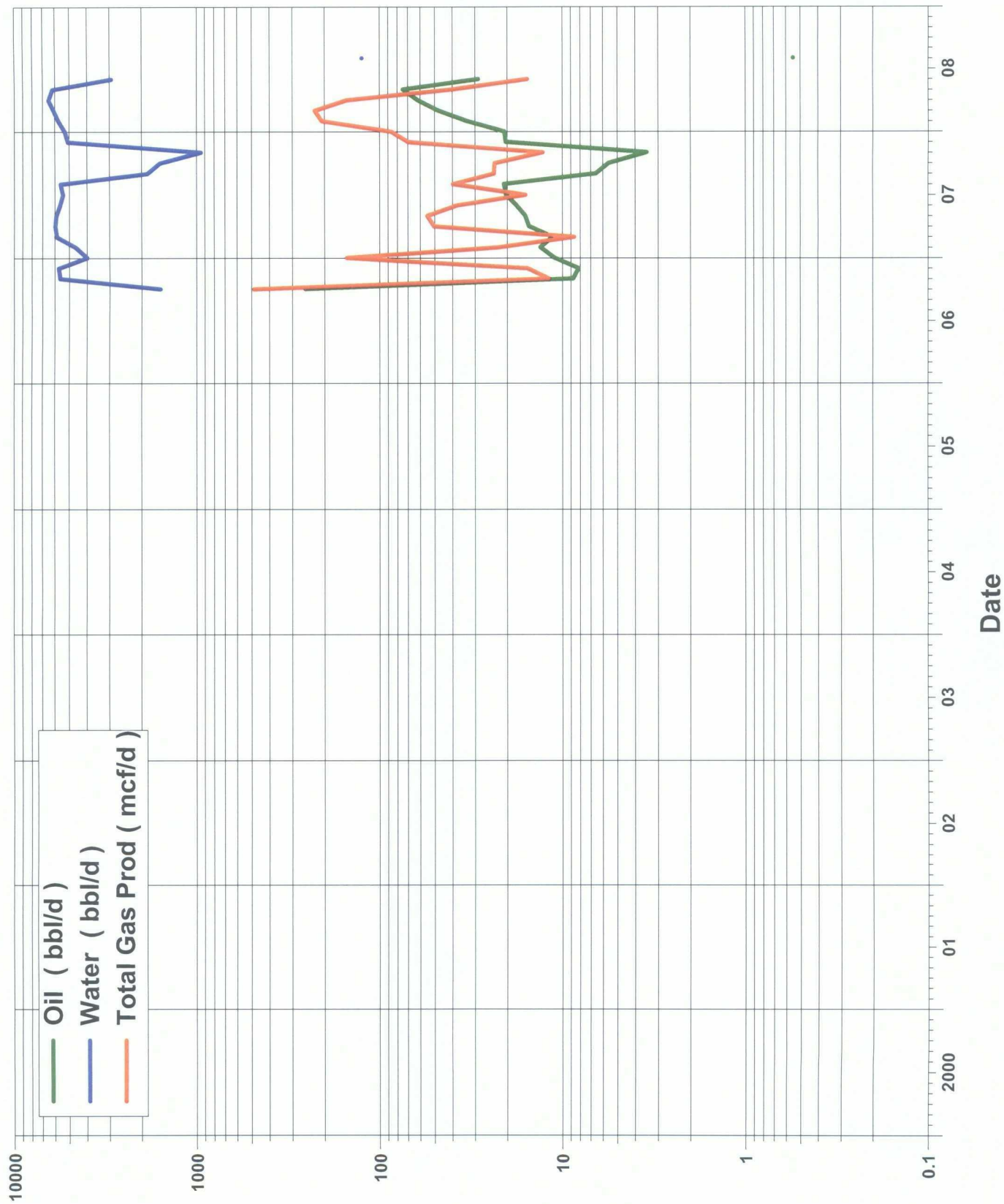
North Hobbs Unit 18529



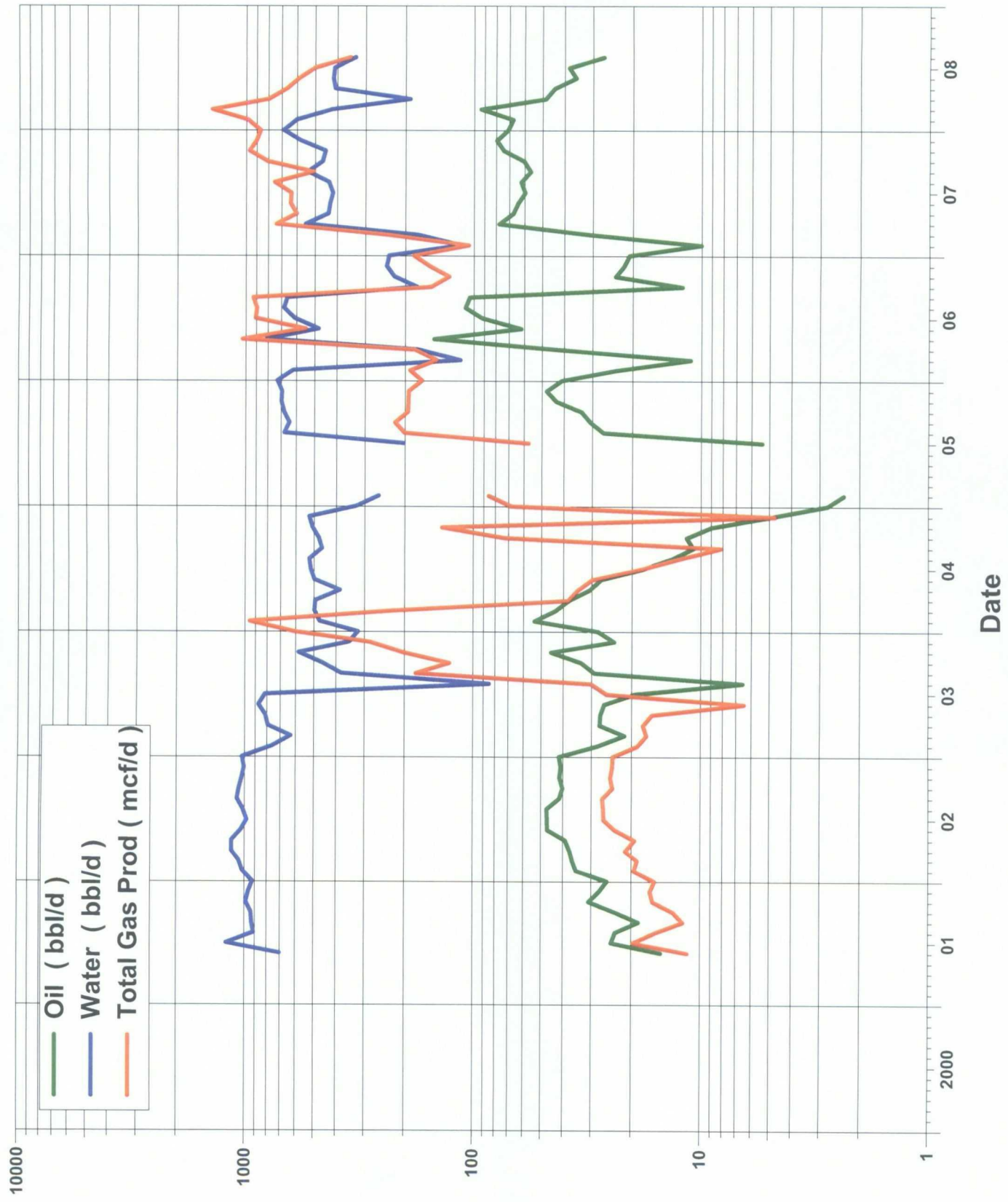
North Hobbs Unit 32531



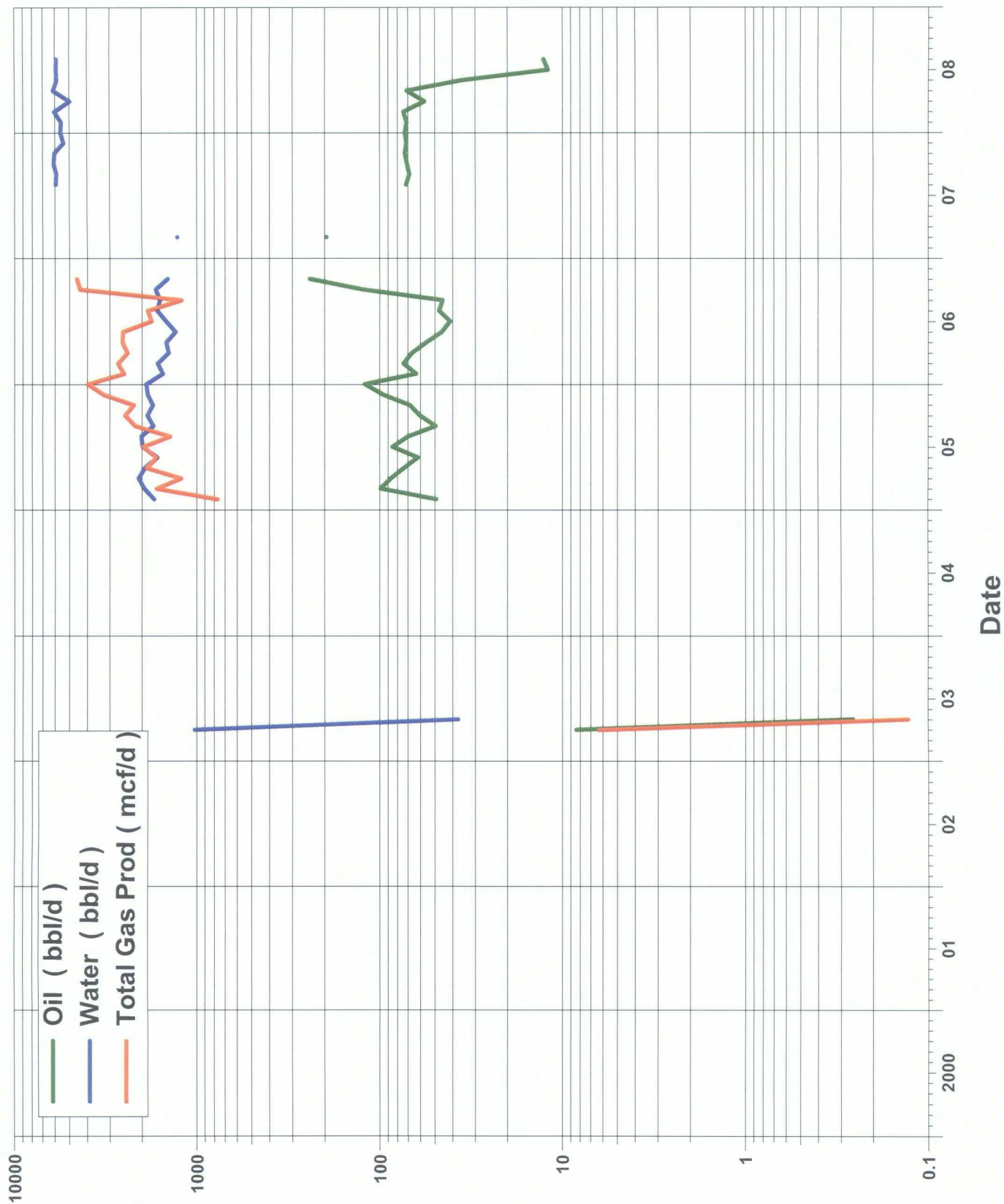
North Hobbs Unit 32532WS



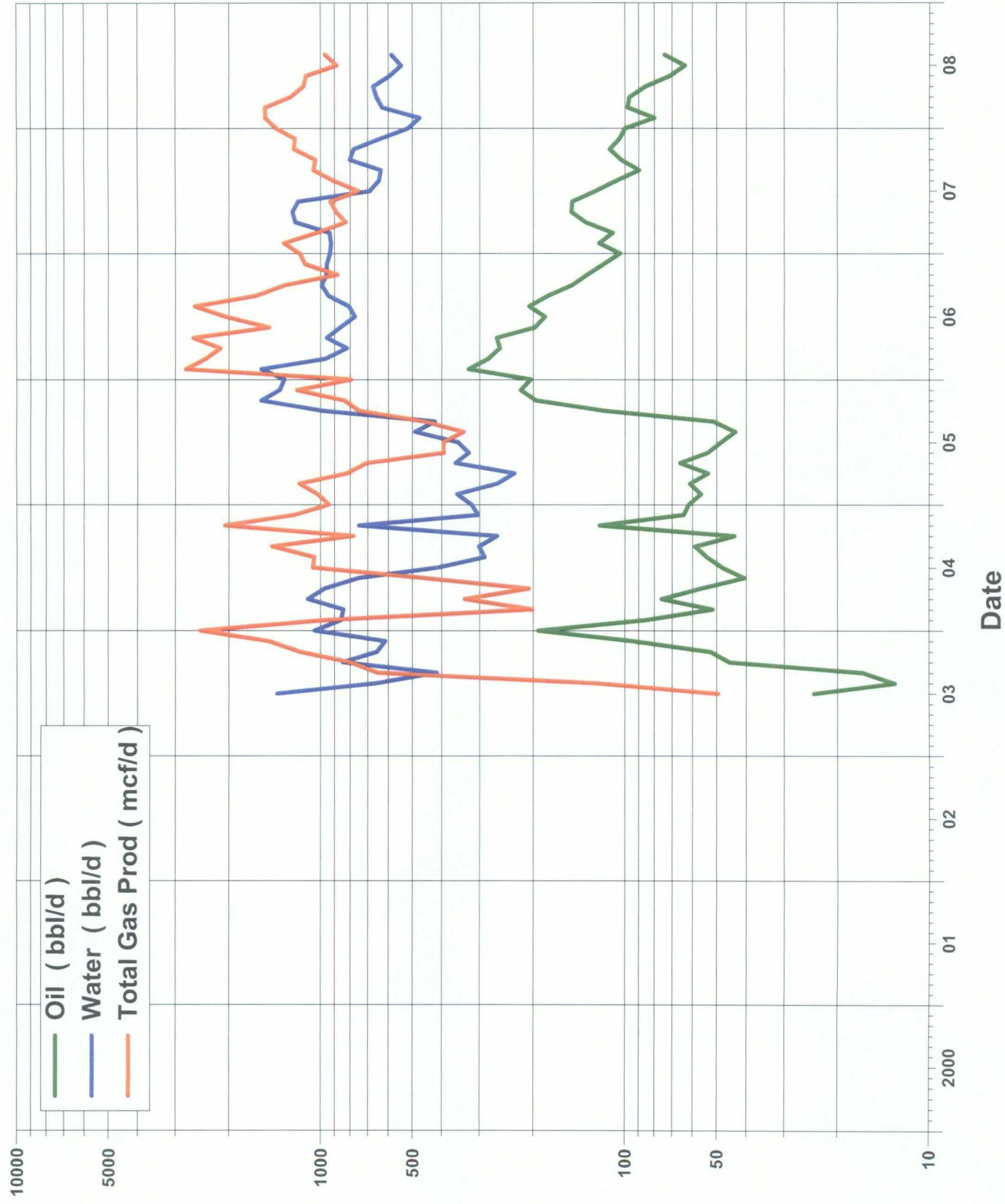
North Hobbs Unit 29533



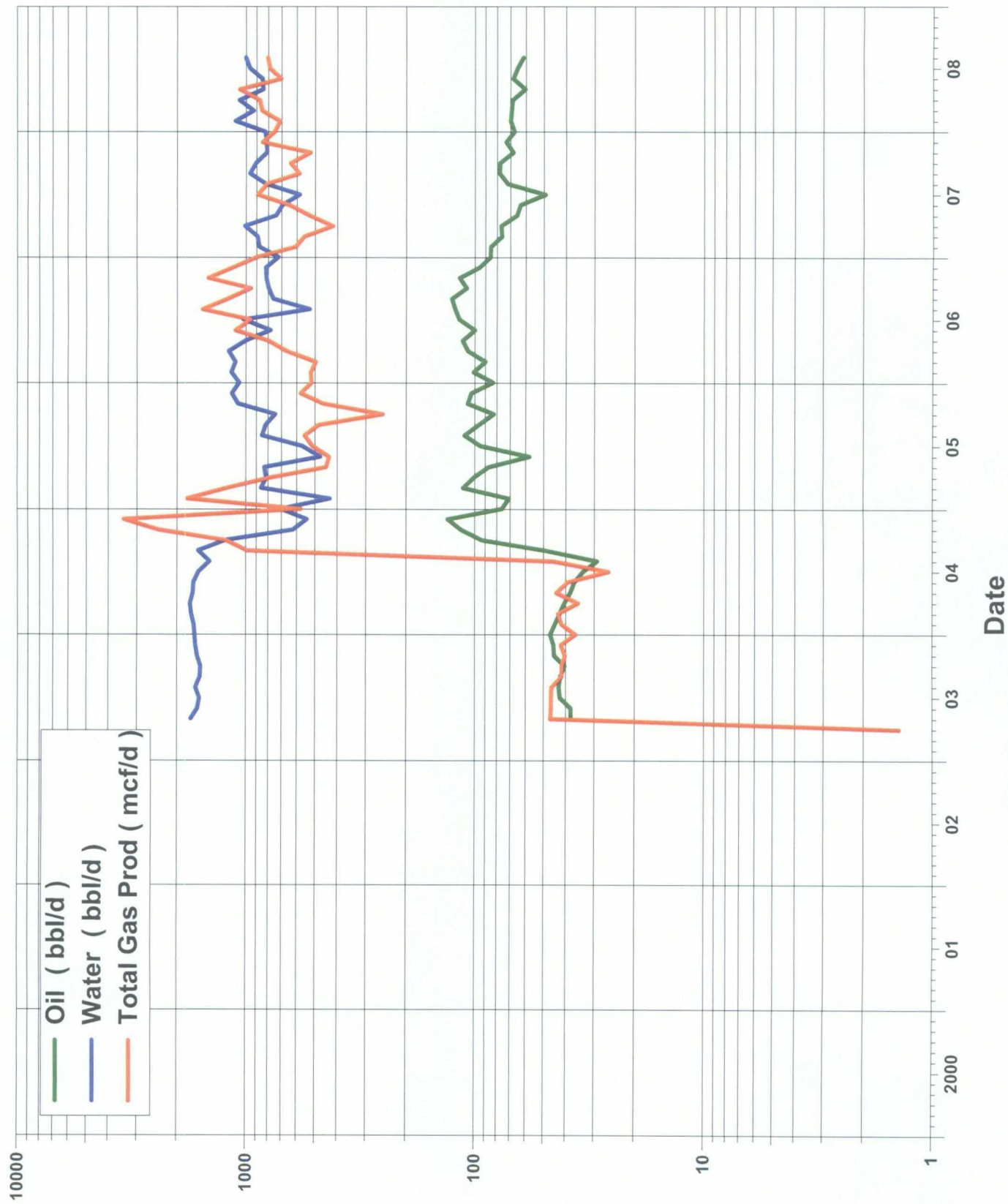
North Hobbs Unit 32537WS



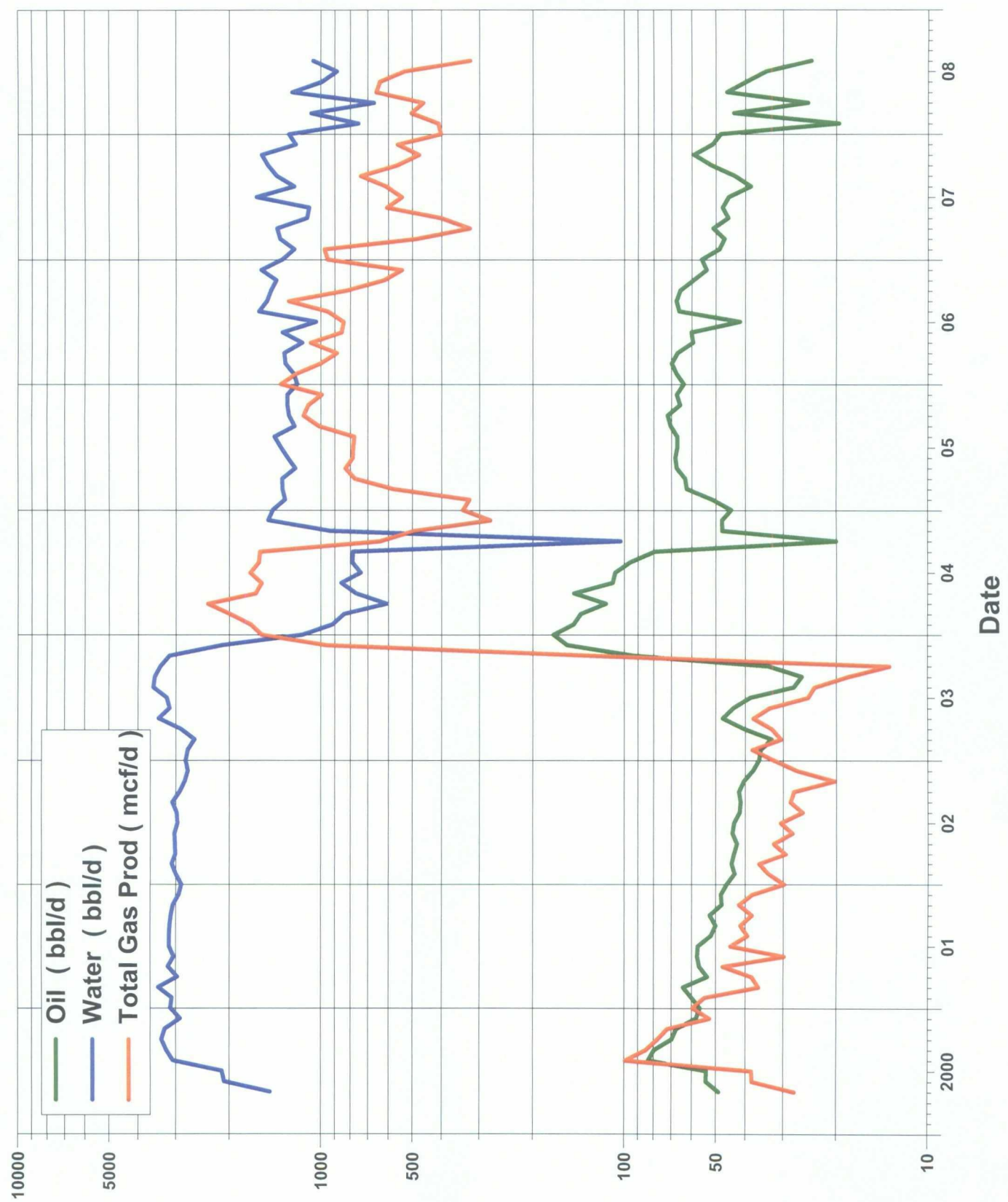
North Hobbs Unit 30538



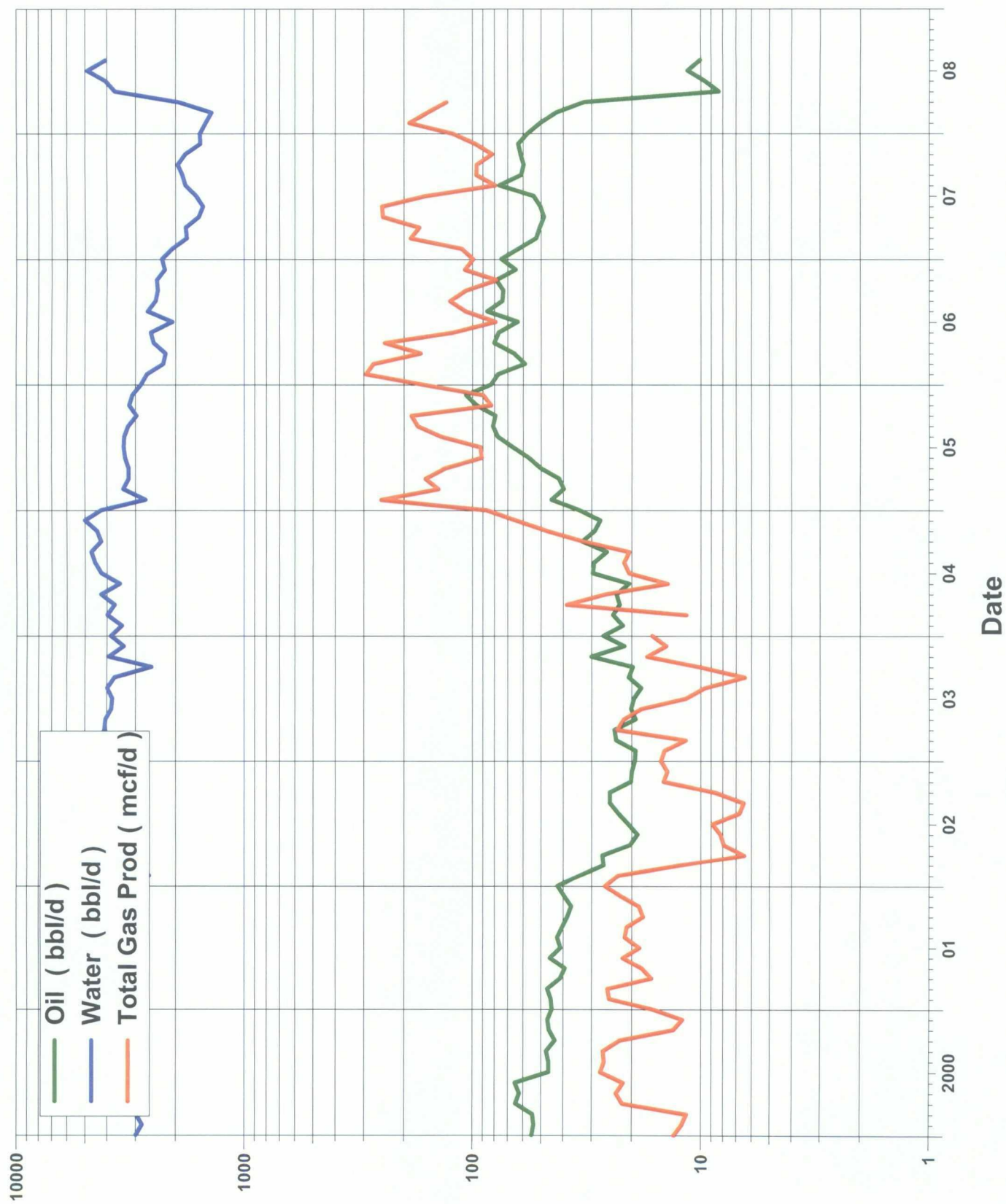
North Hobbs Unit 24539



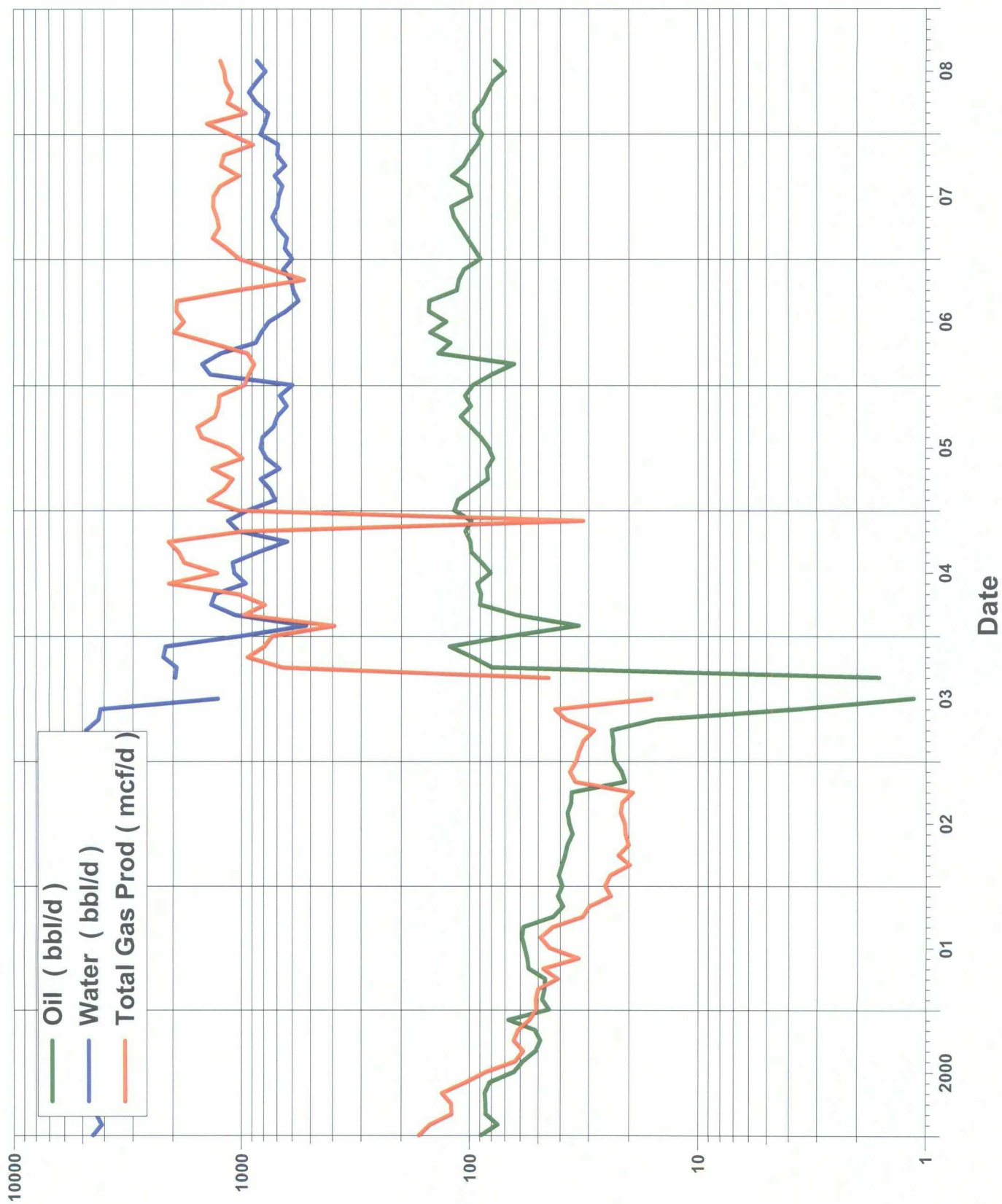
North Hobbs Unit 32541



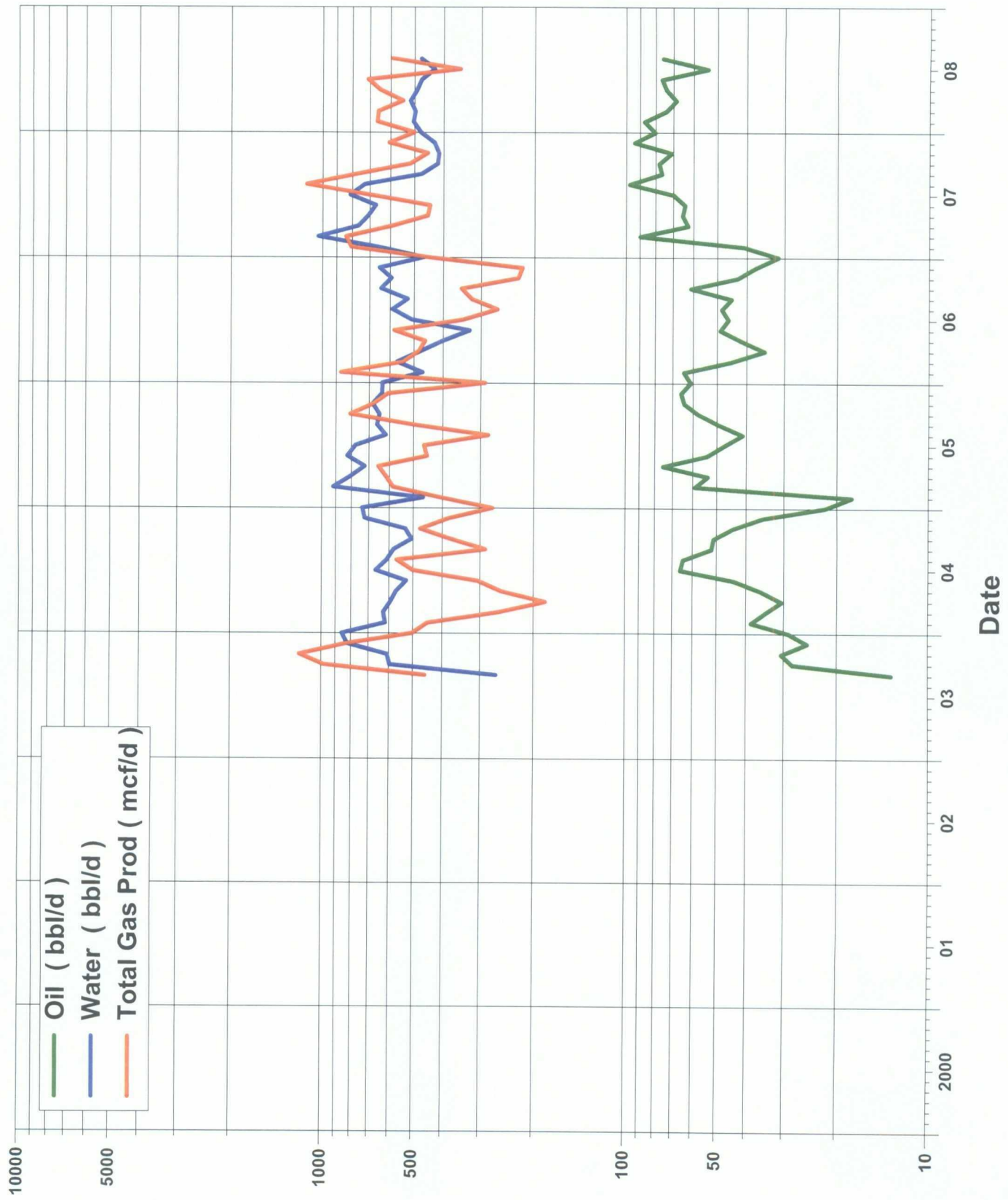
North Hobbs Unit 32542



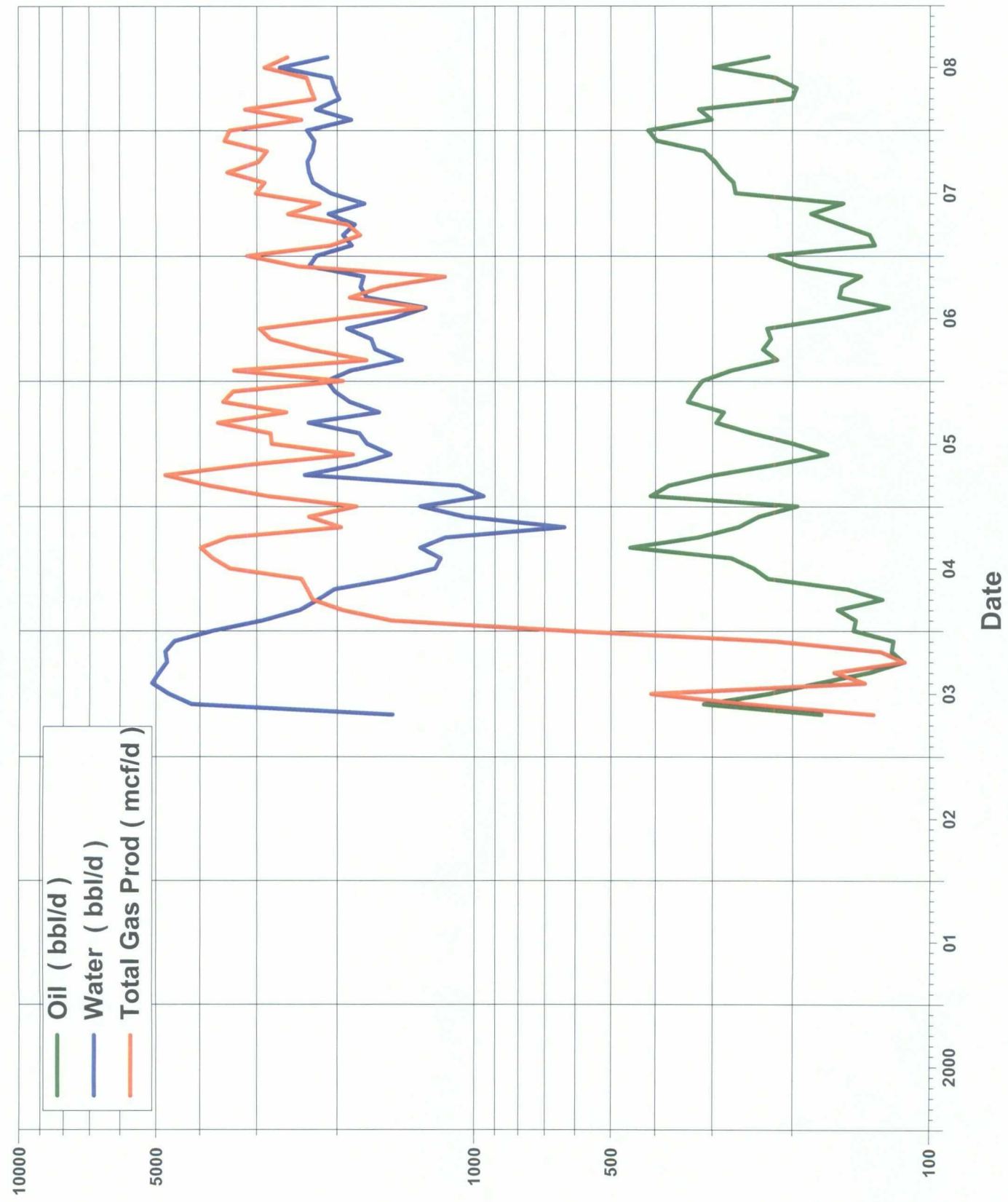
North Hobbs Unit 29544



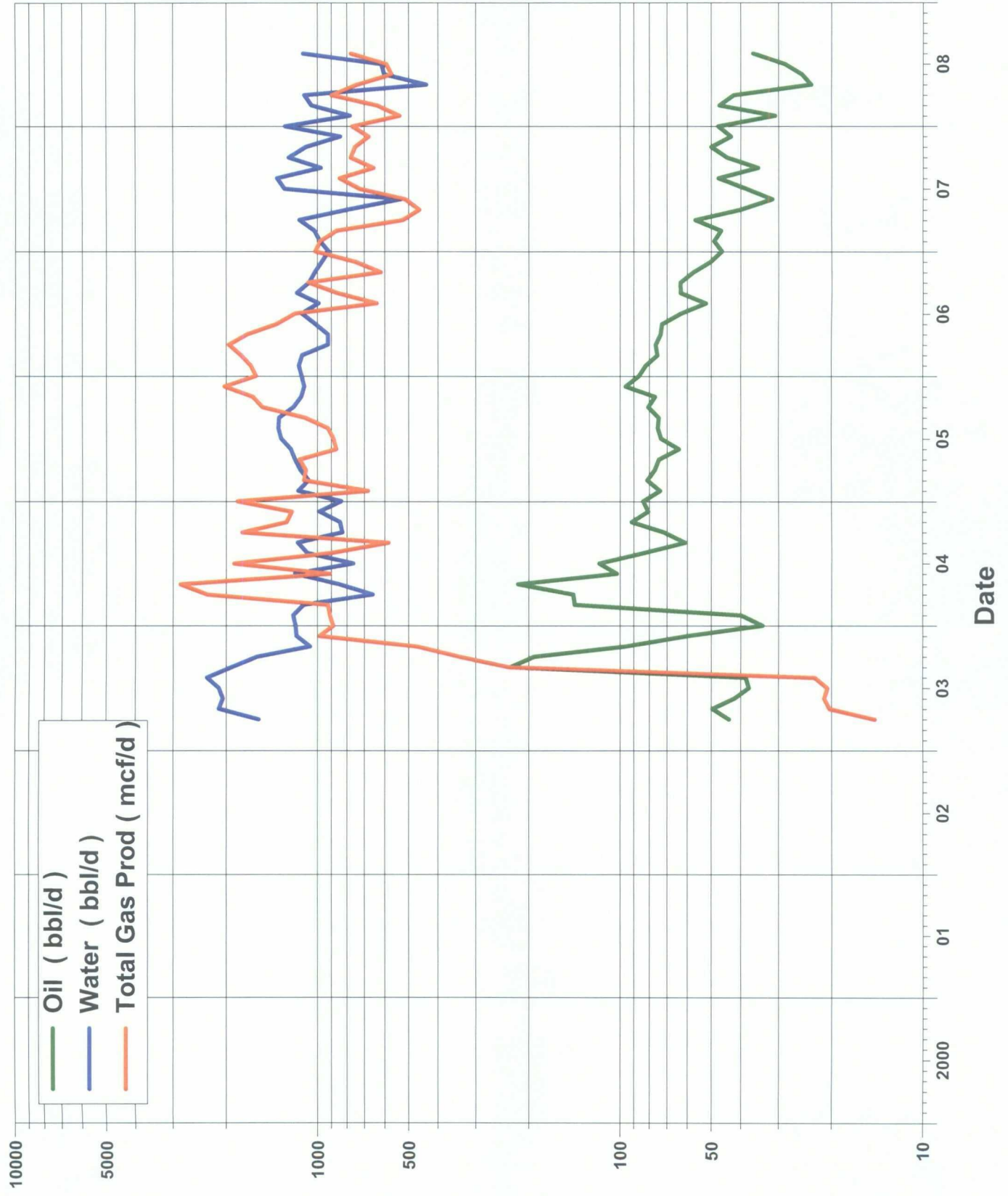
North Hobbs Unit 30546



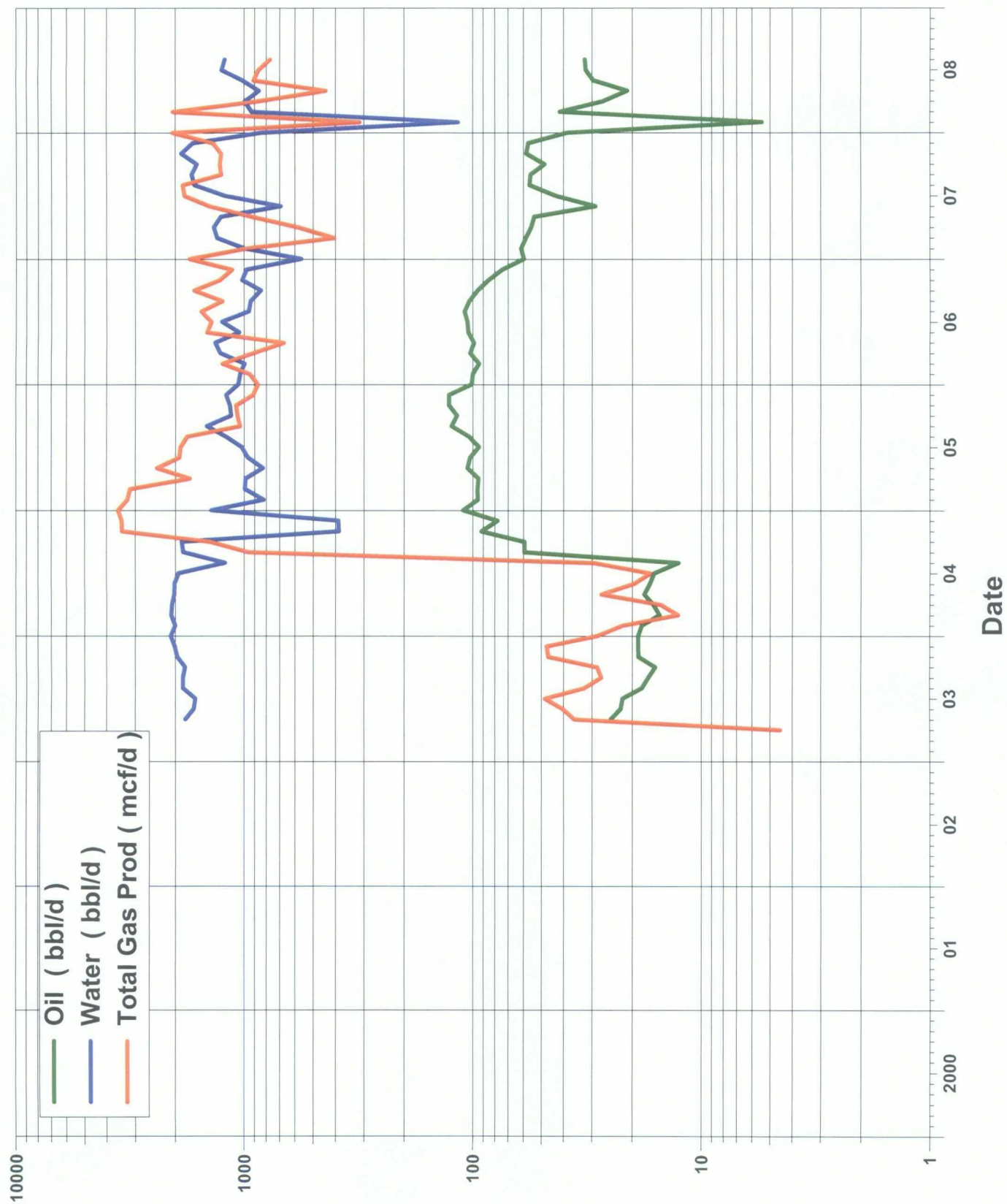
North Hobbs Unit 30547



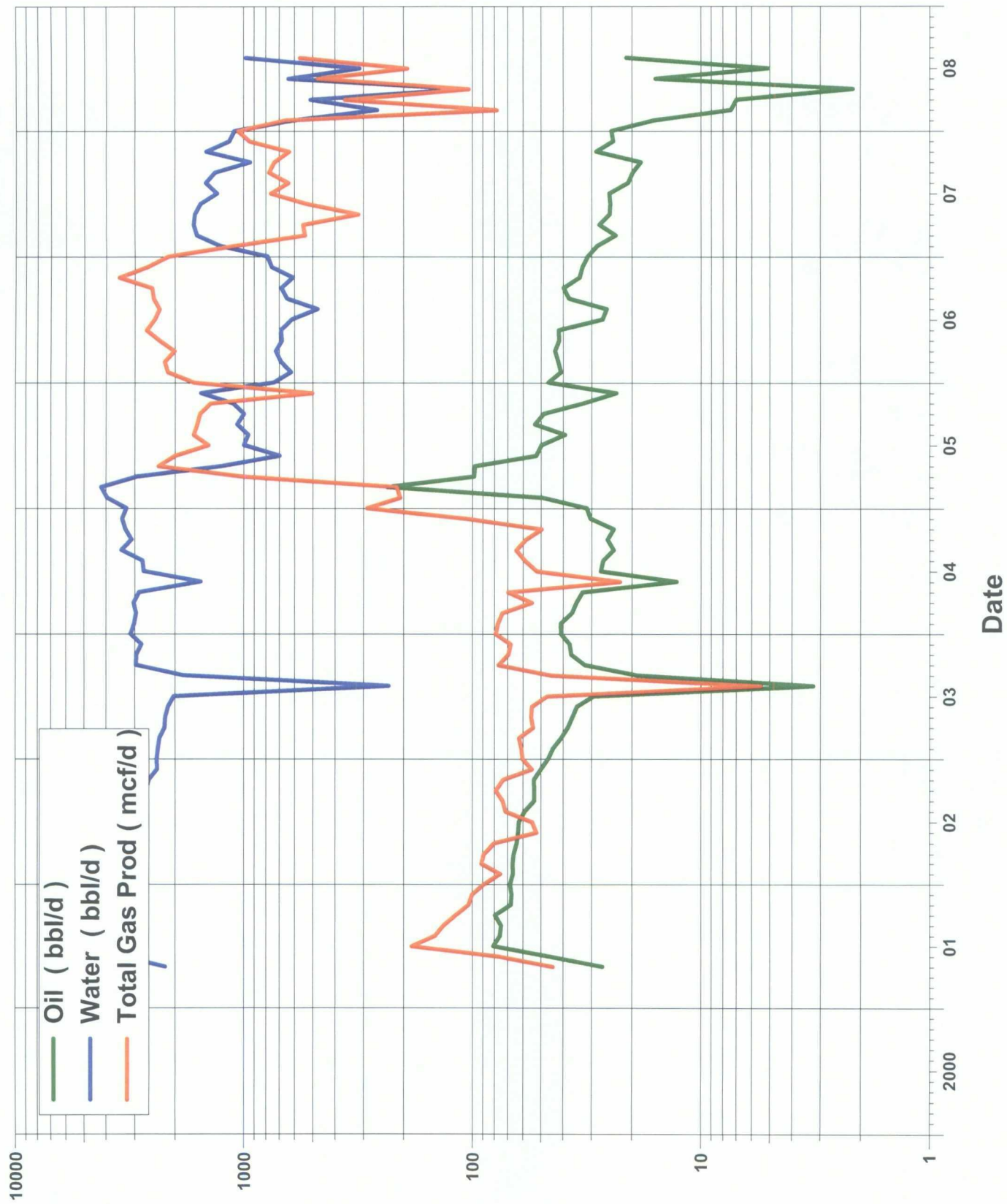
North Hobbs Unit 32548



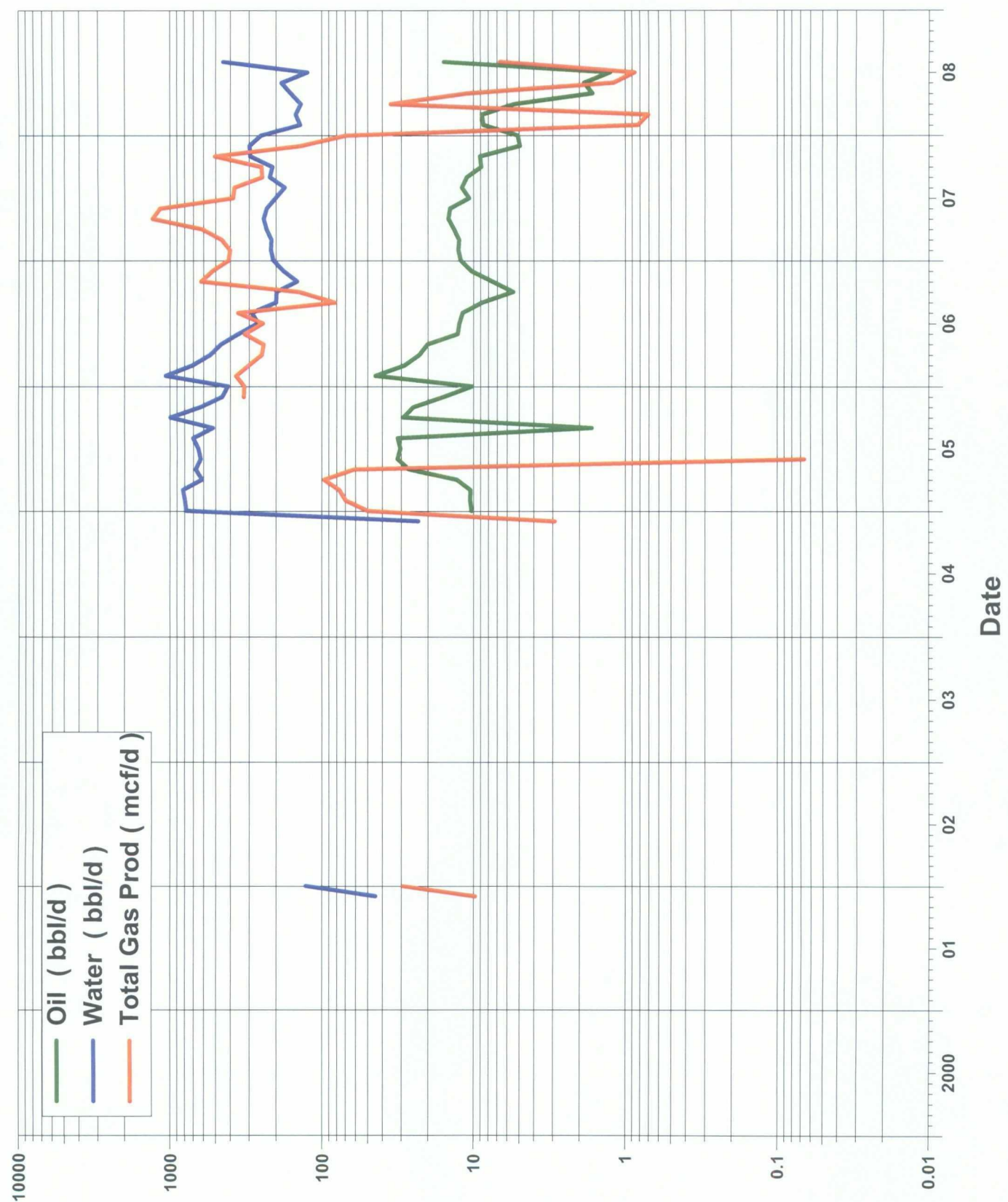
North Hobbs Unit 24549



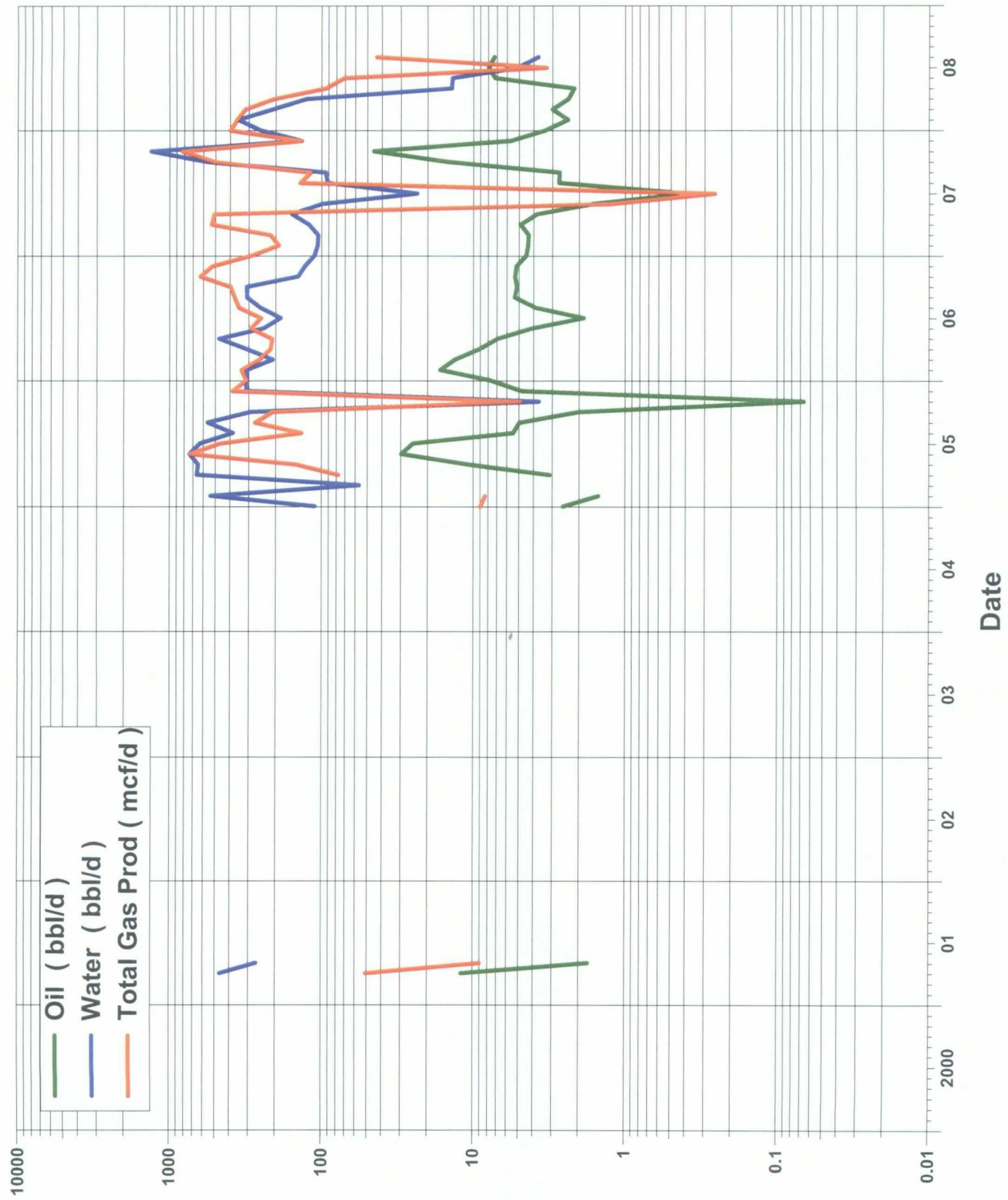
North Hobbs Unit 24611



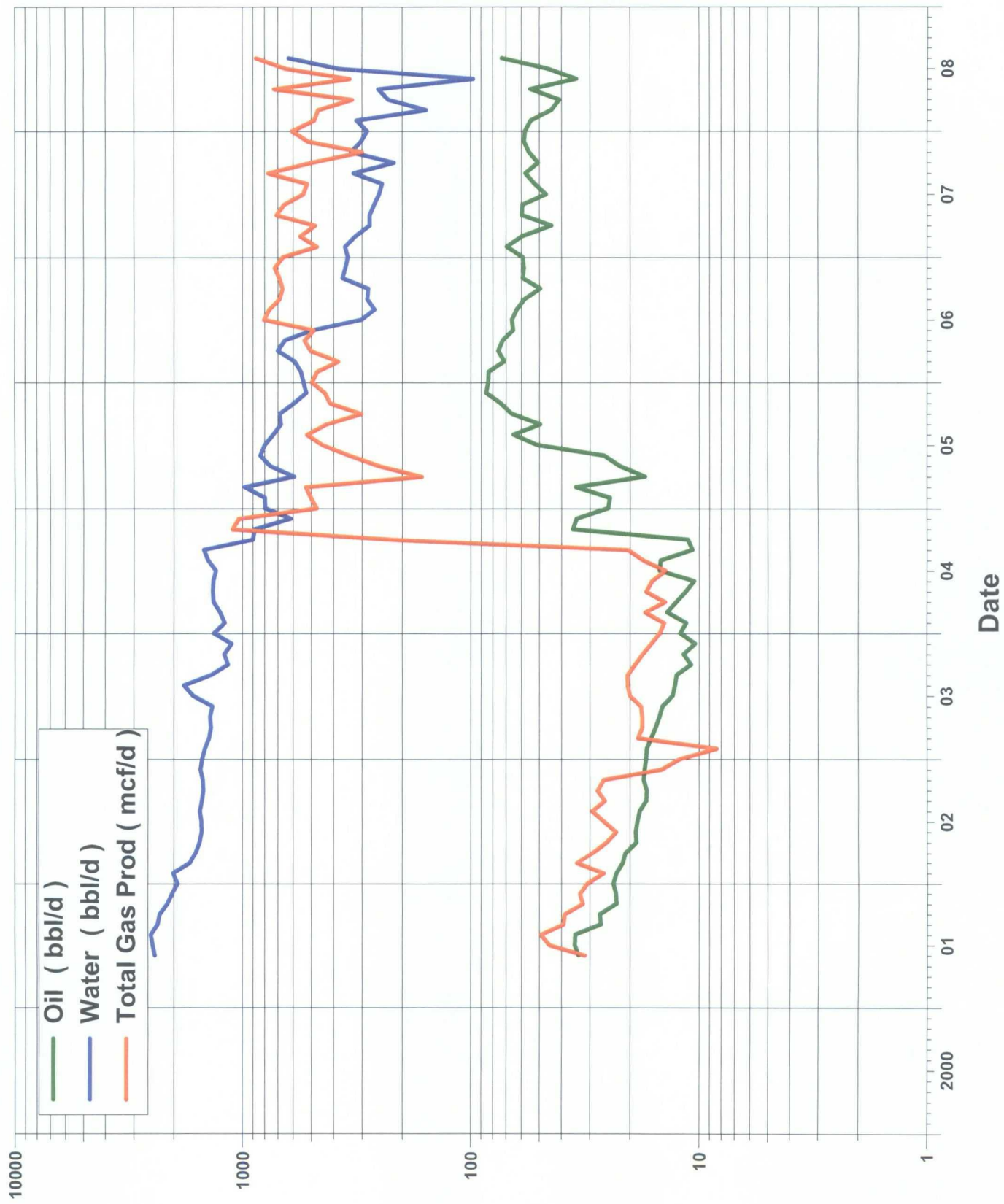
North Hobbs Unit 24612



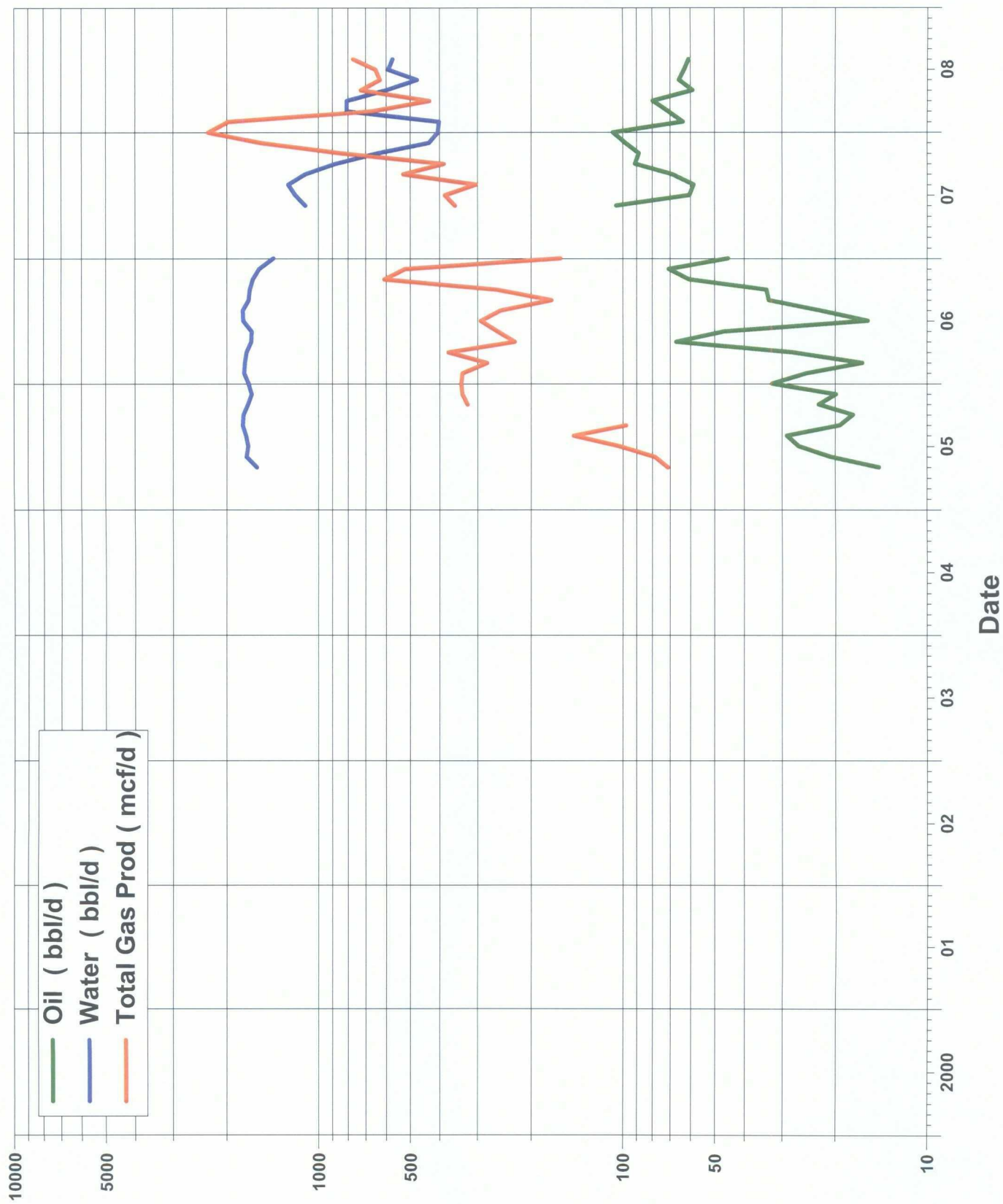
North Hobbs Unit 24613



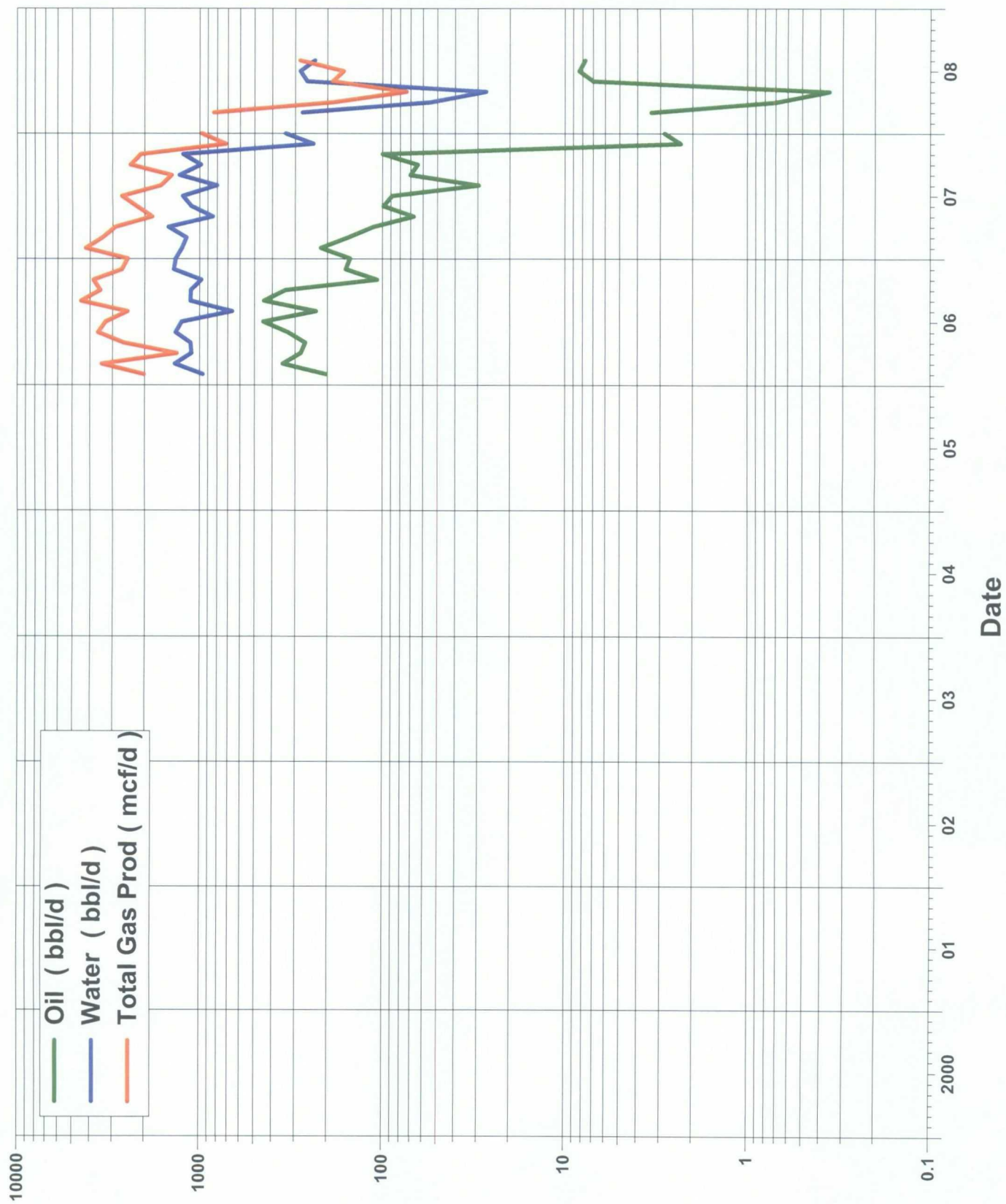
North Hobbs Unit 24614



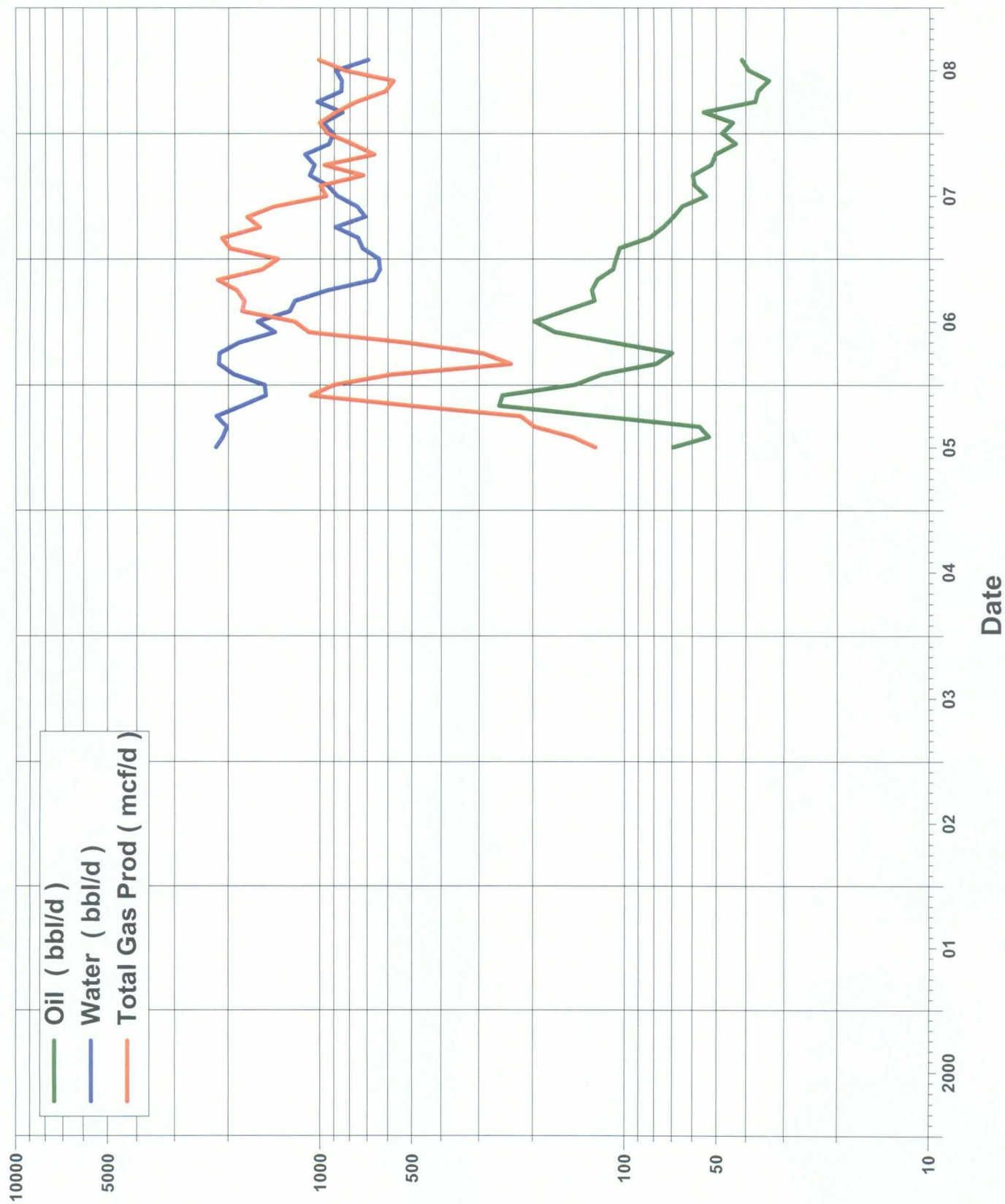
North Hobbs Unit 19615



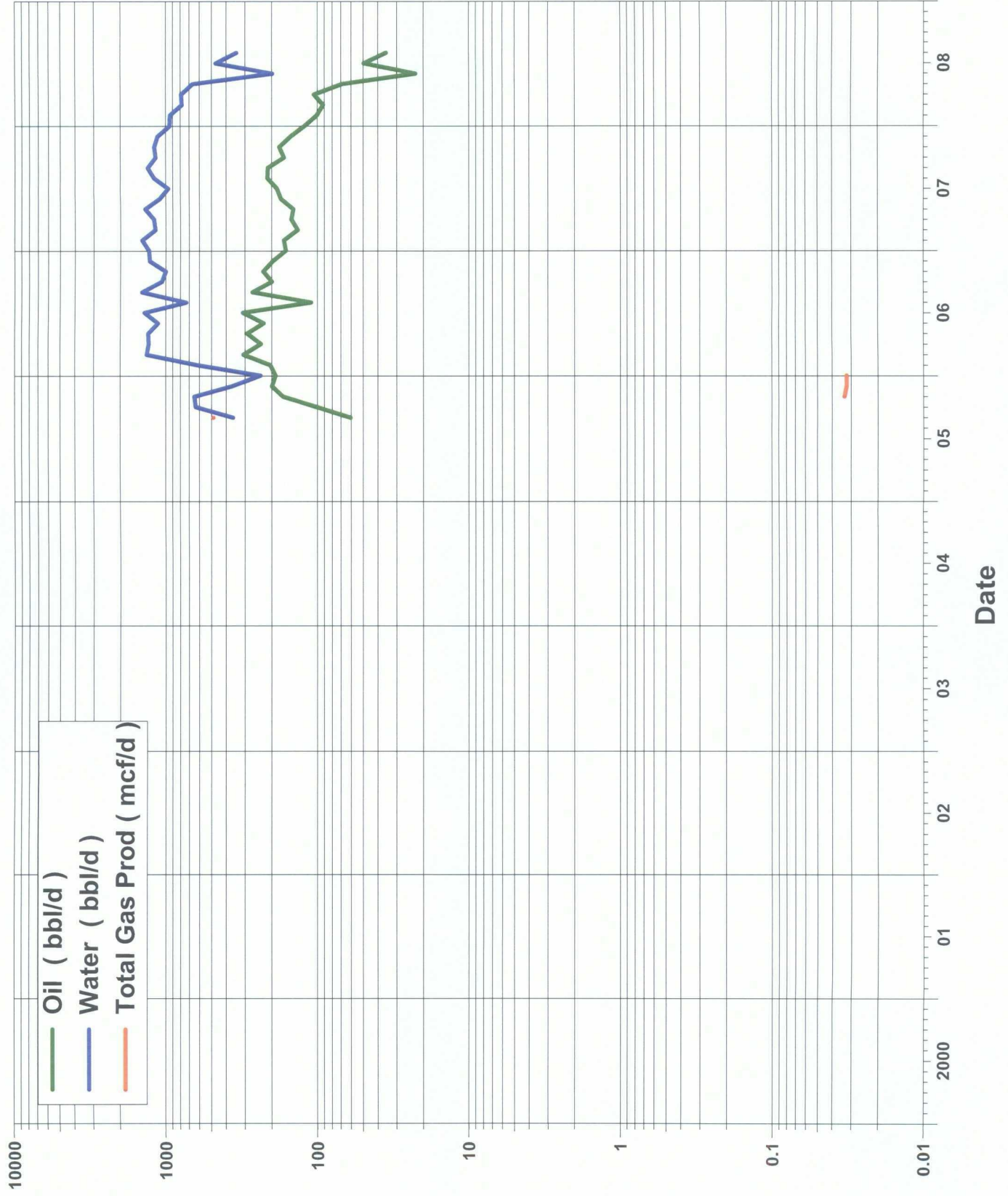
North Hobbs Unit 19616



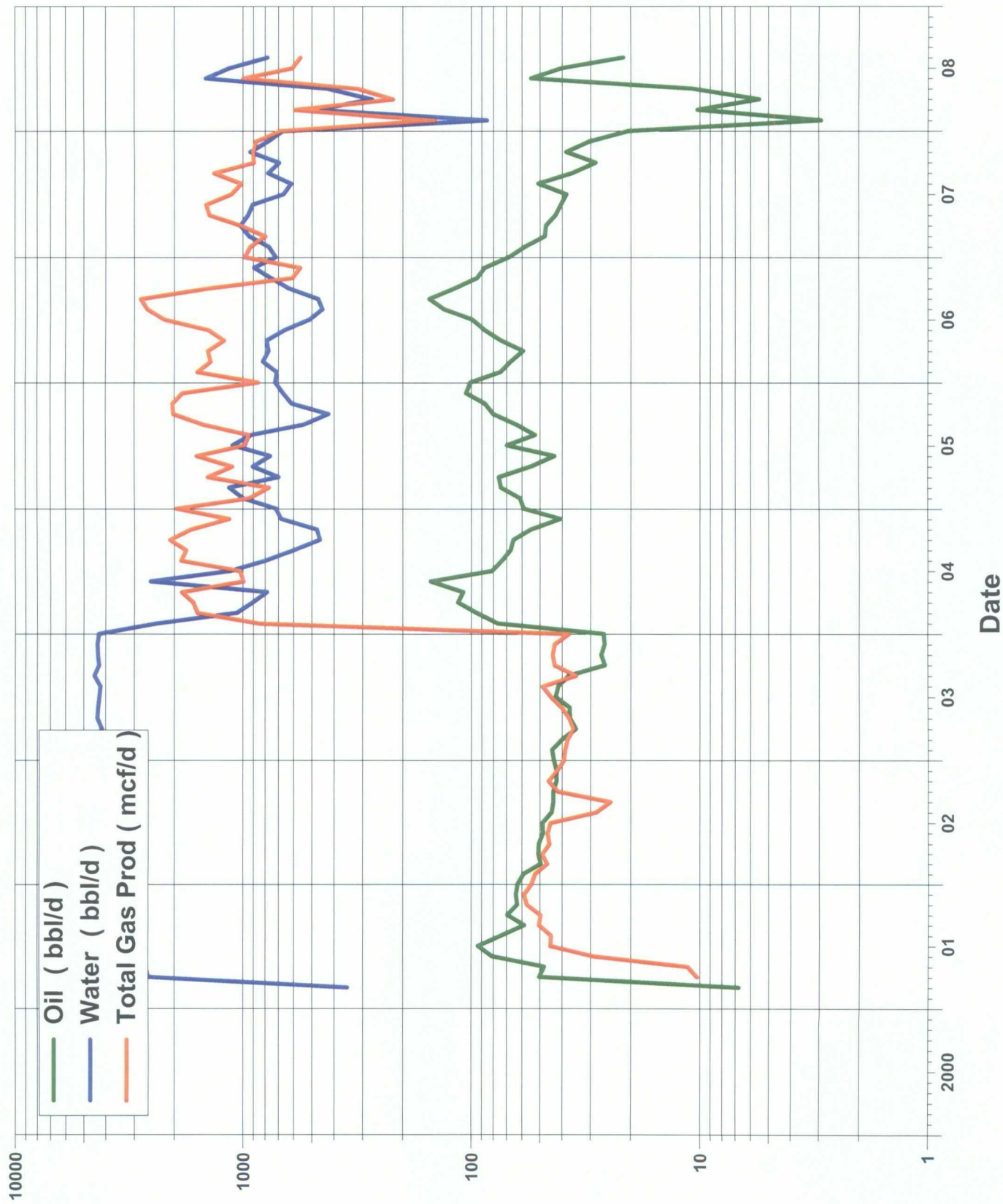
North Hobbs Unit 30617



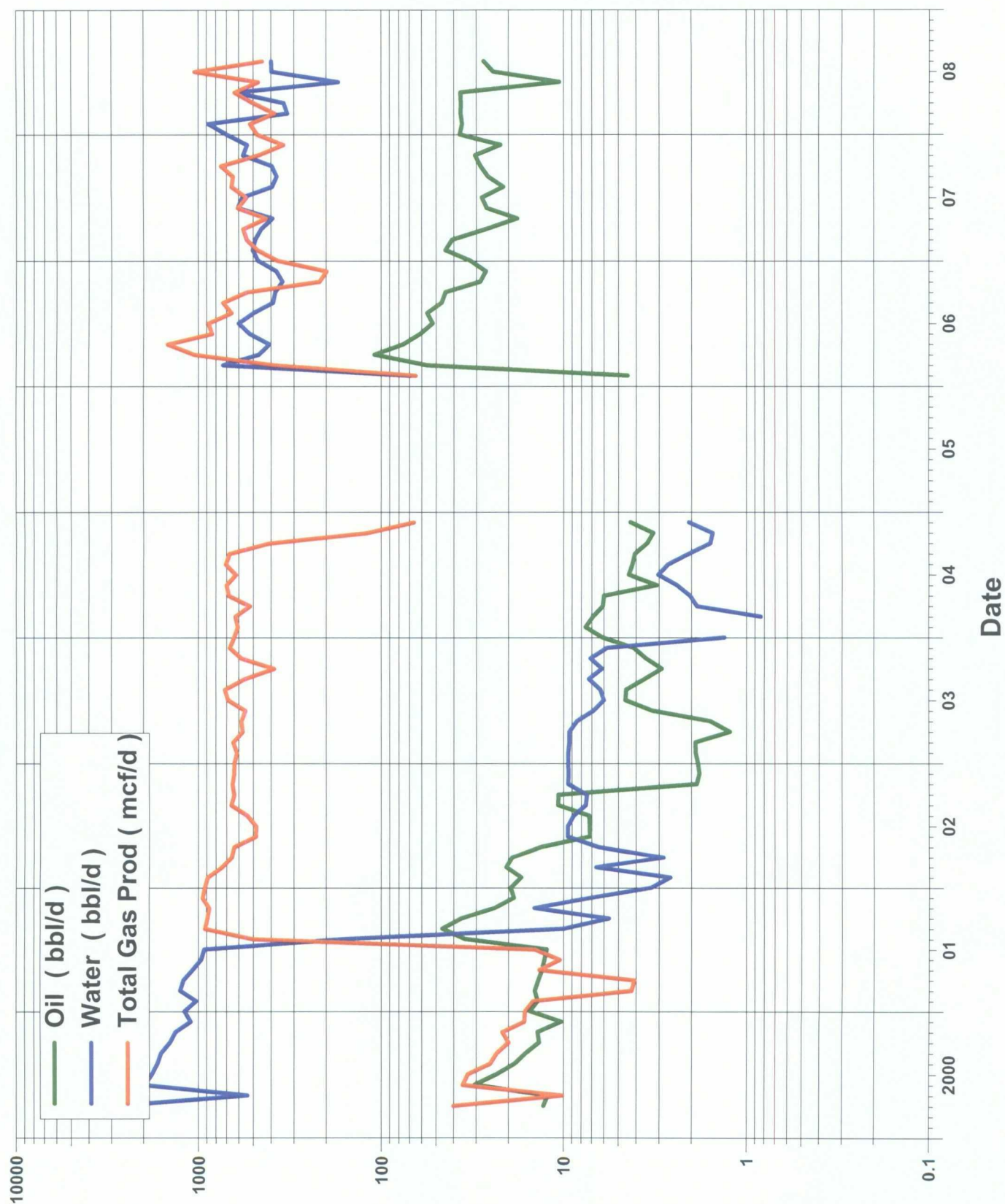
North Hobbs Unit 30618



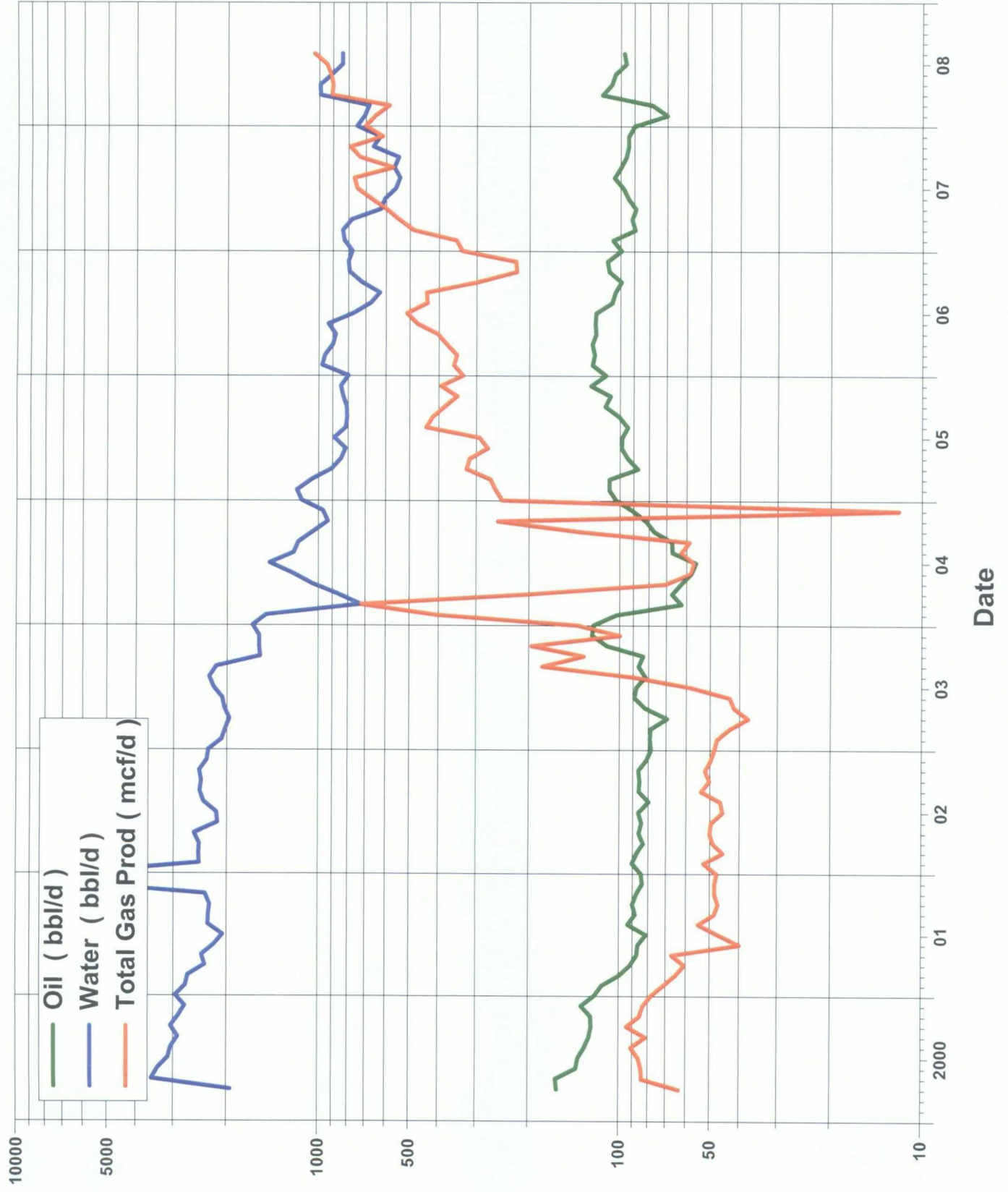
North Hobbs Unit 30621



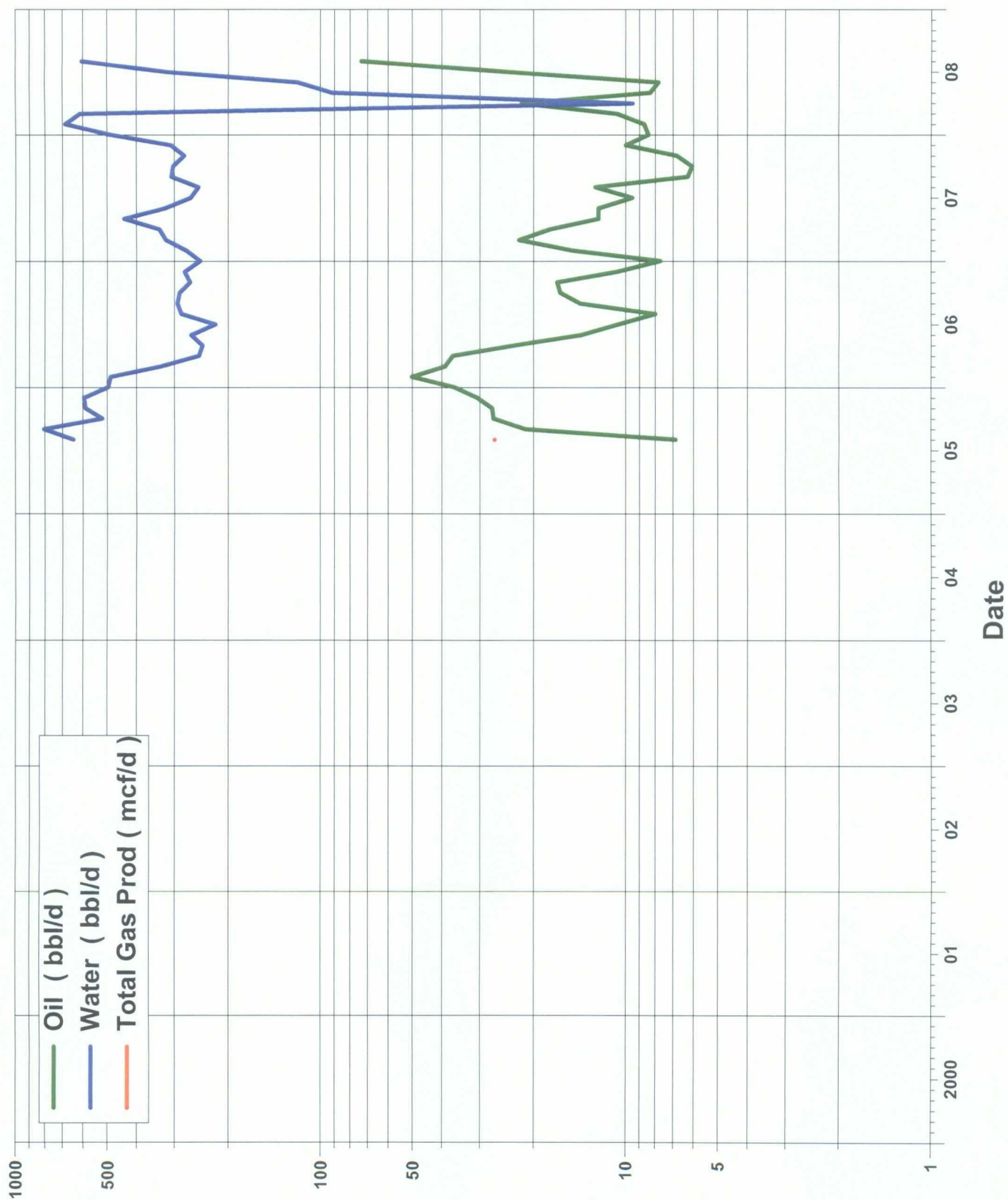
North Hobbs Unit 29623



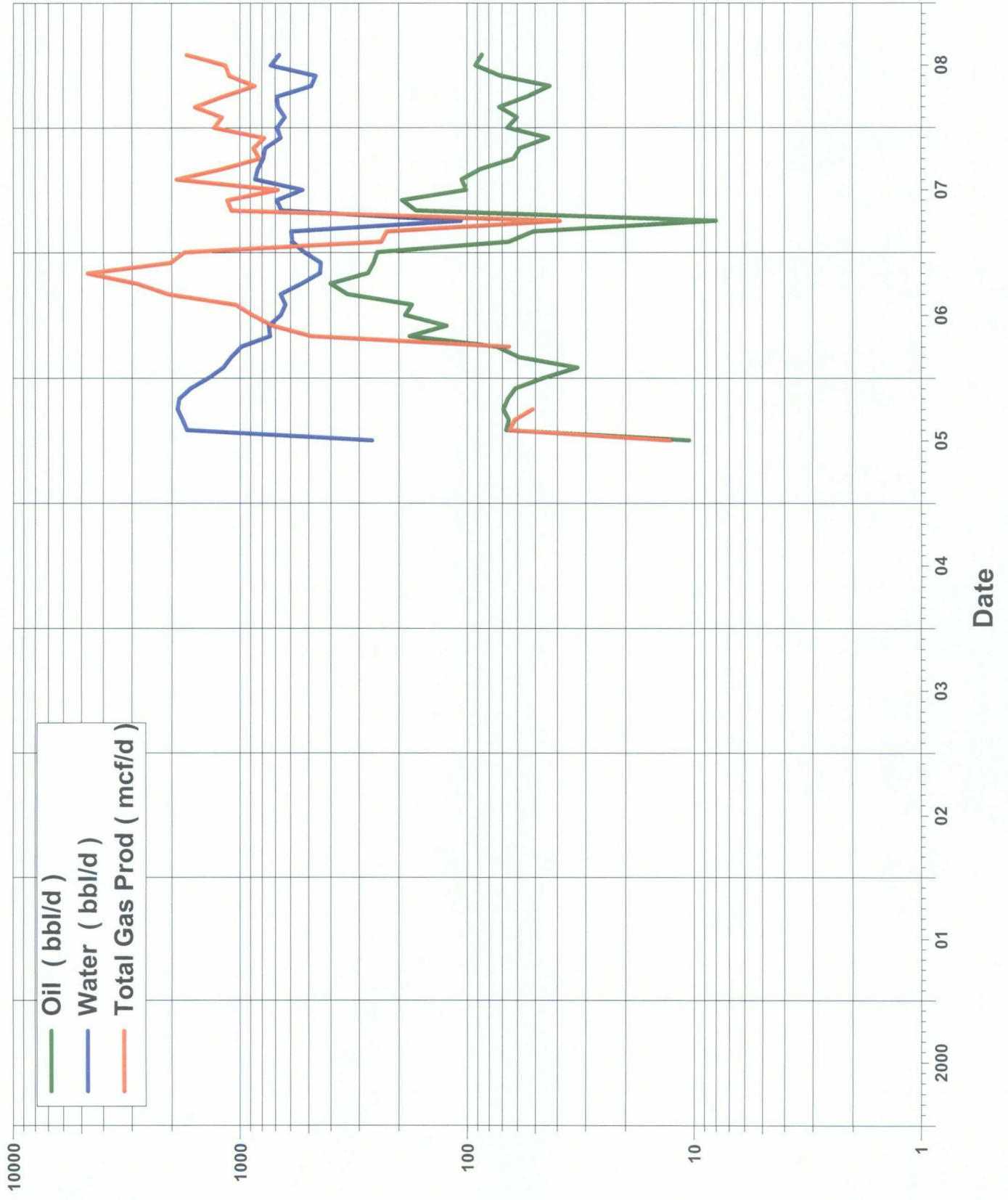
North Hobbs Unit 29624



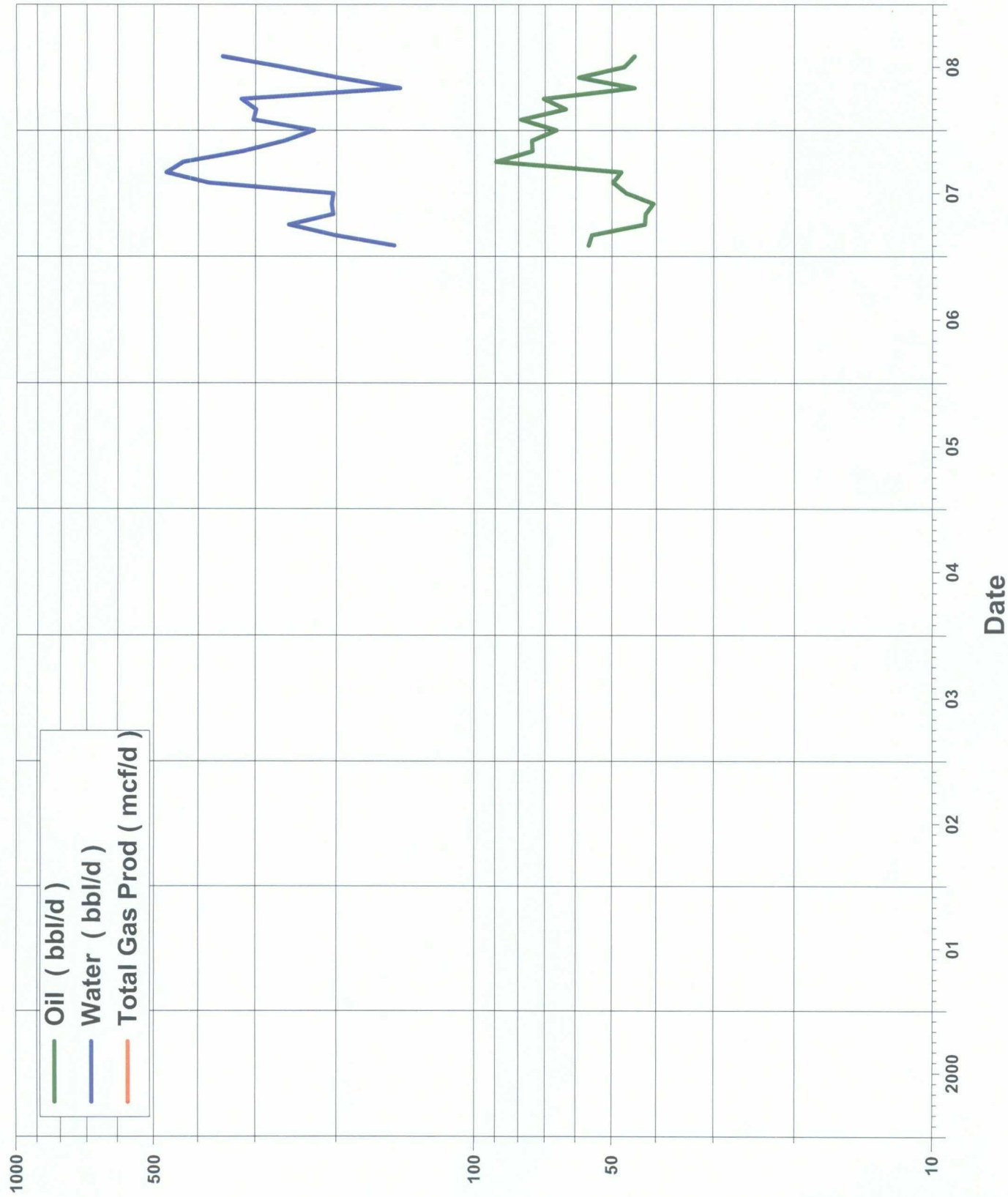
North Hobbs Unit 29625



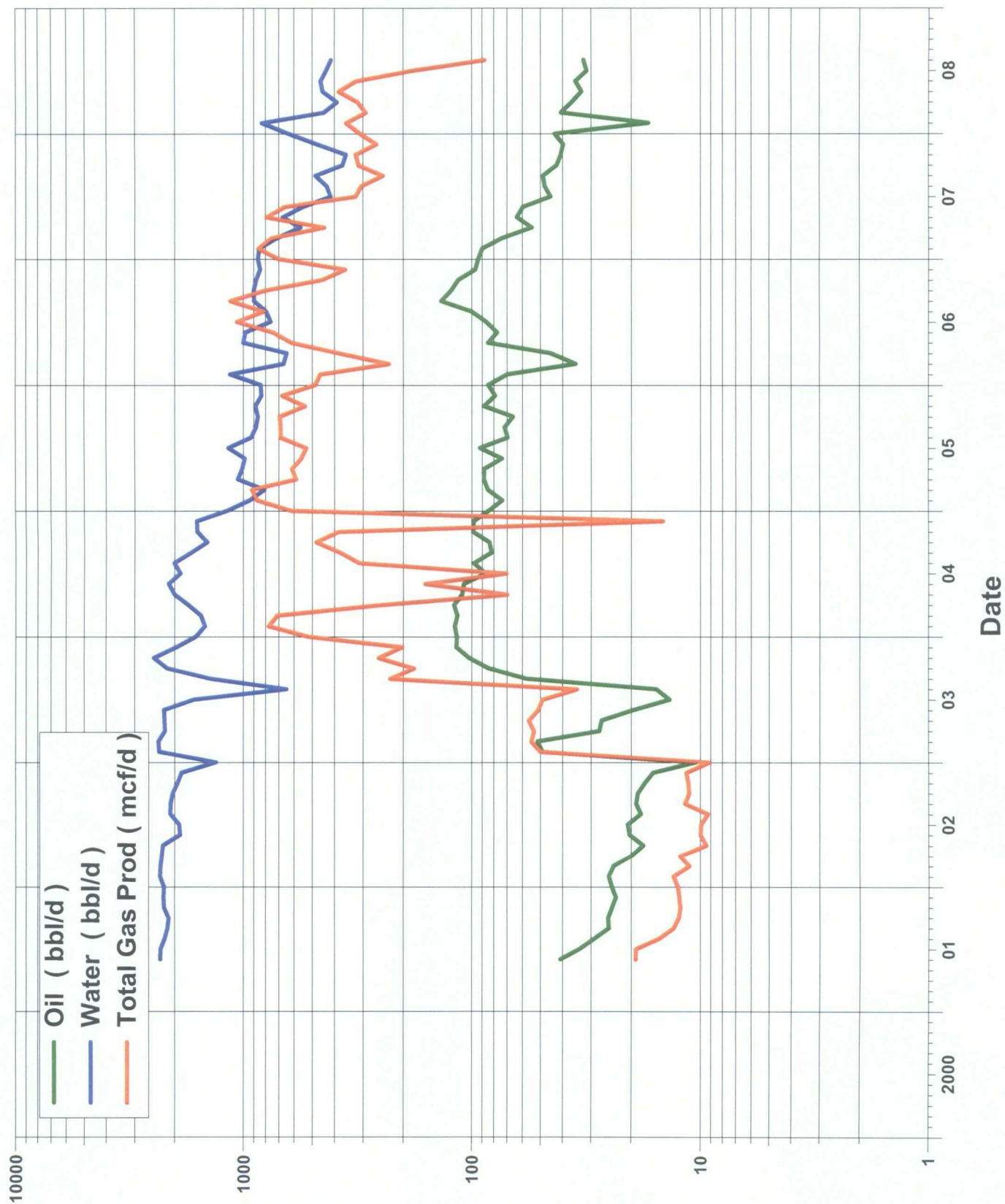
North Hobbs Unit 19627



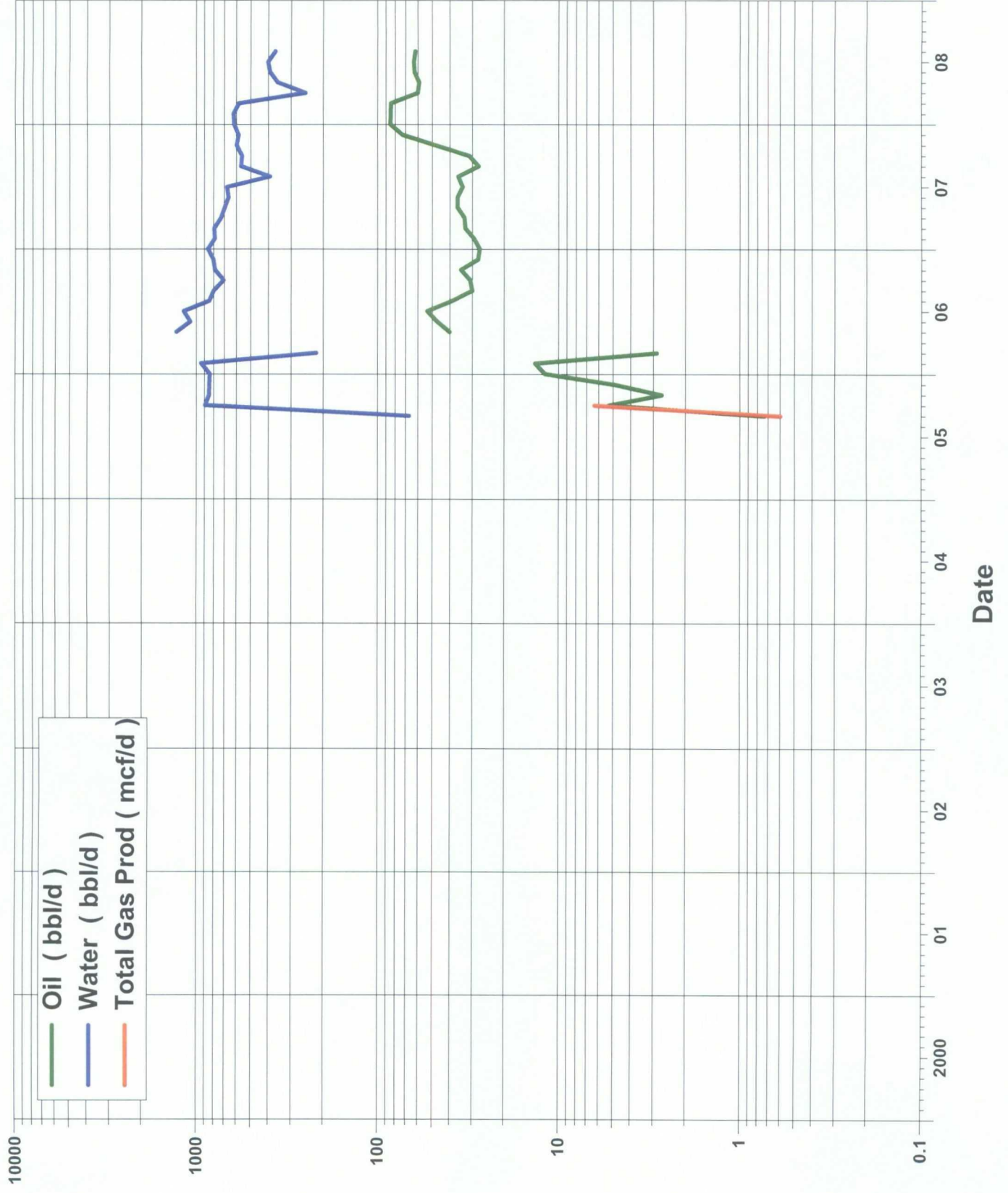
North Hobbs Unit 19628



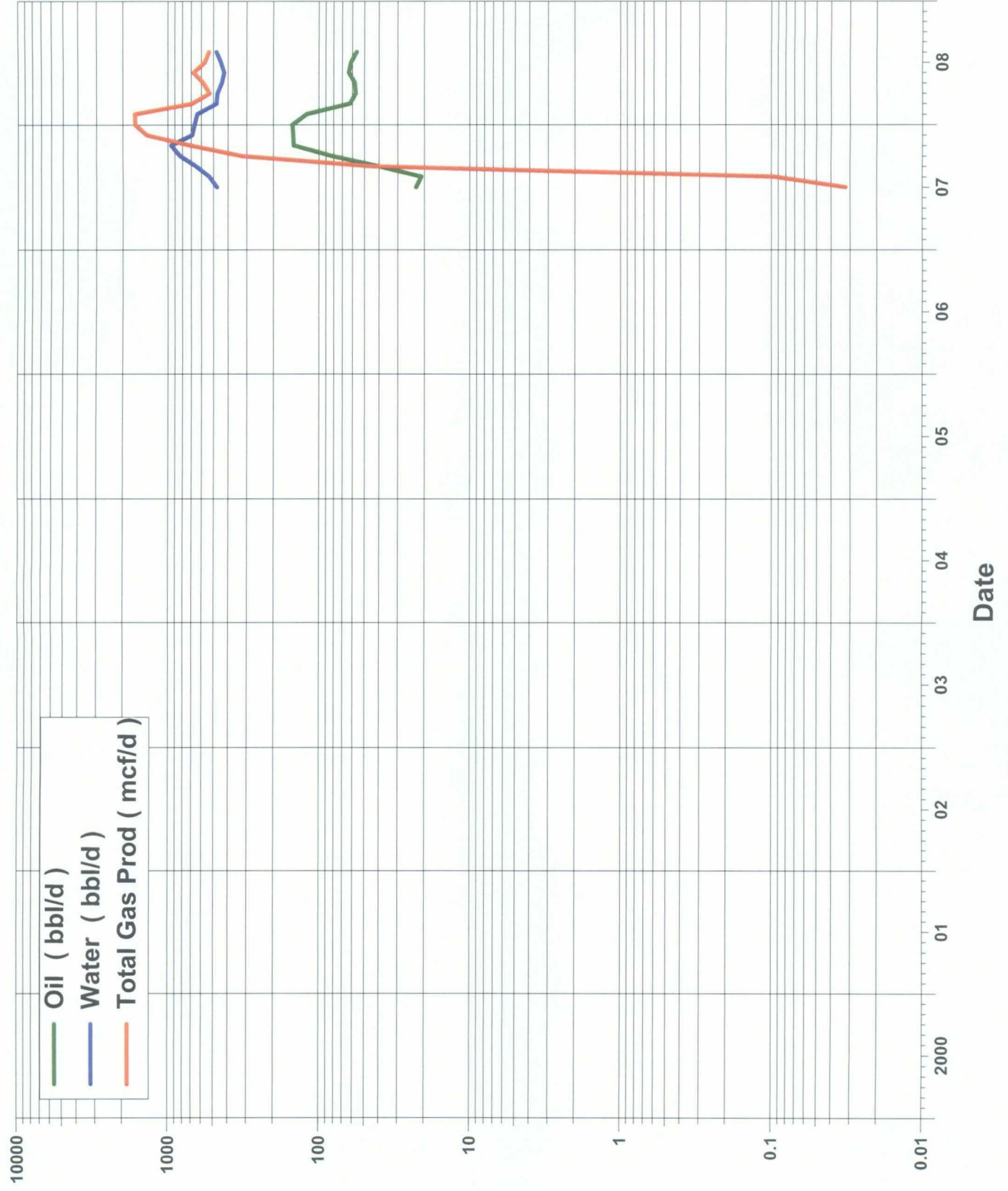
North Hobbs Unit 29634



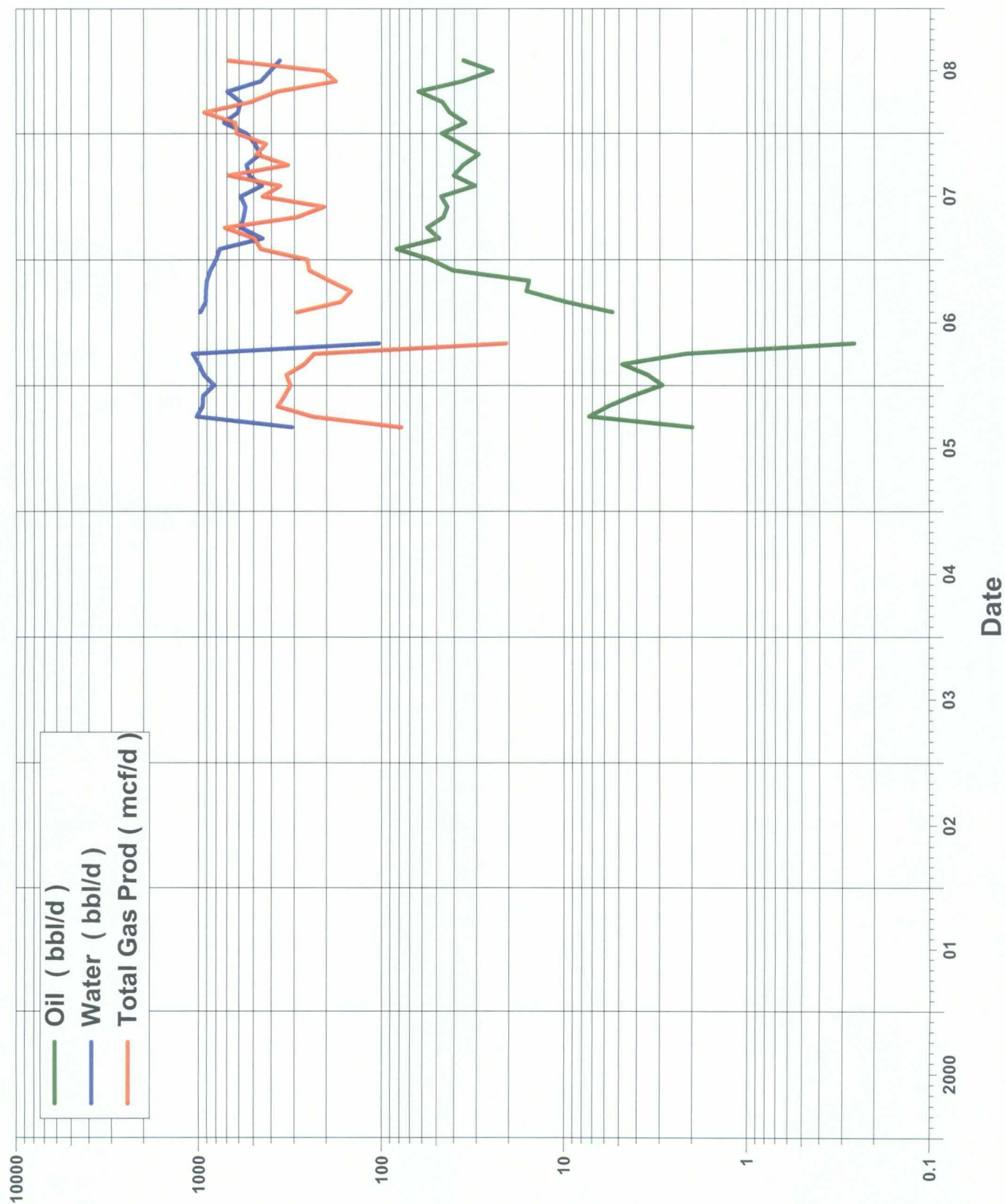
North Hobbs Unit 29636



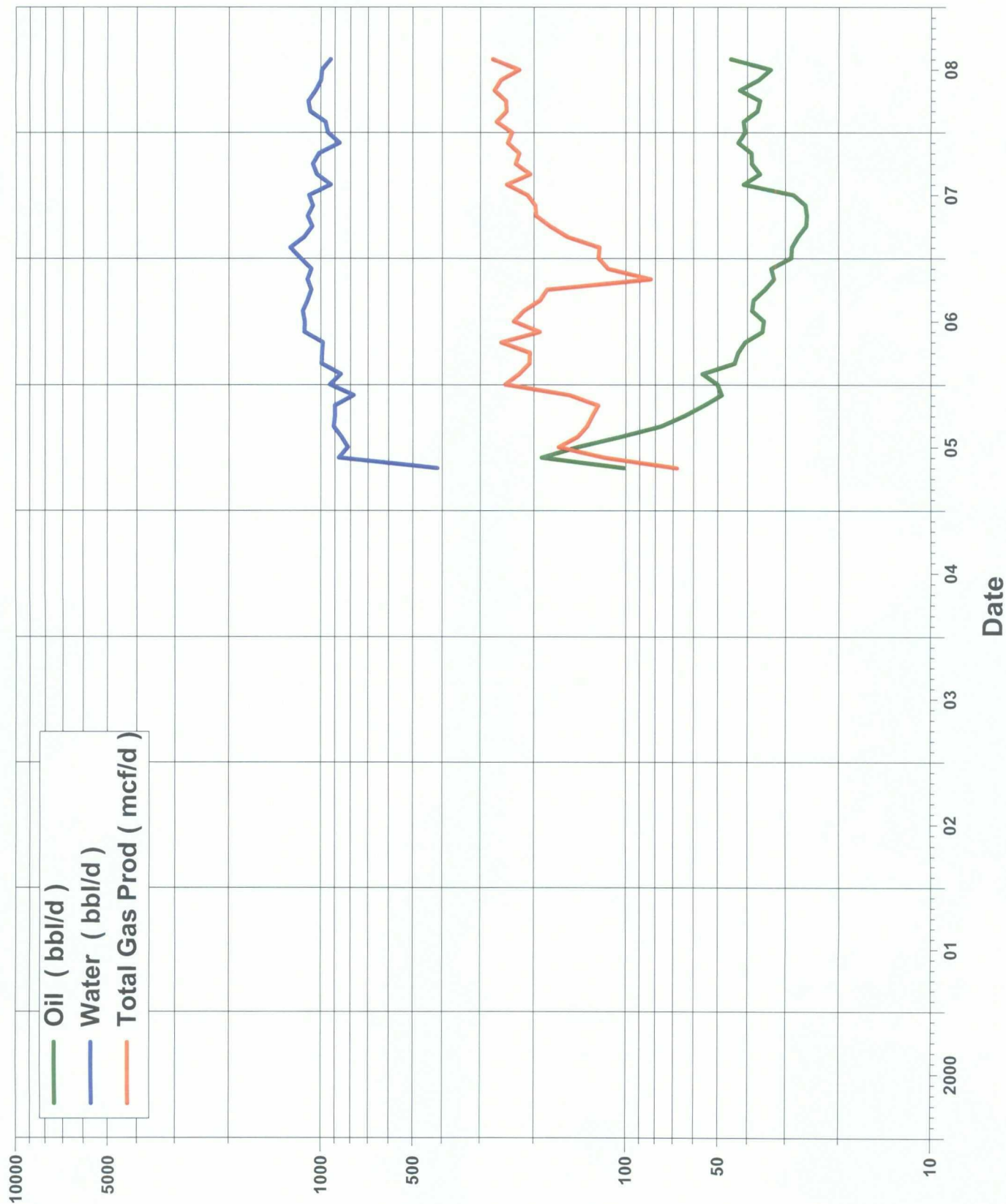
North Hobbs Unit 19638



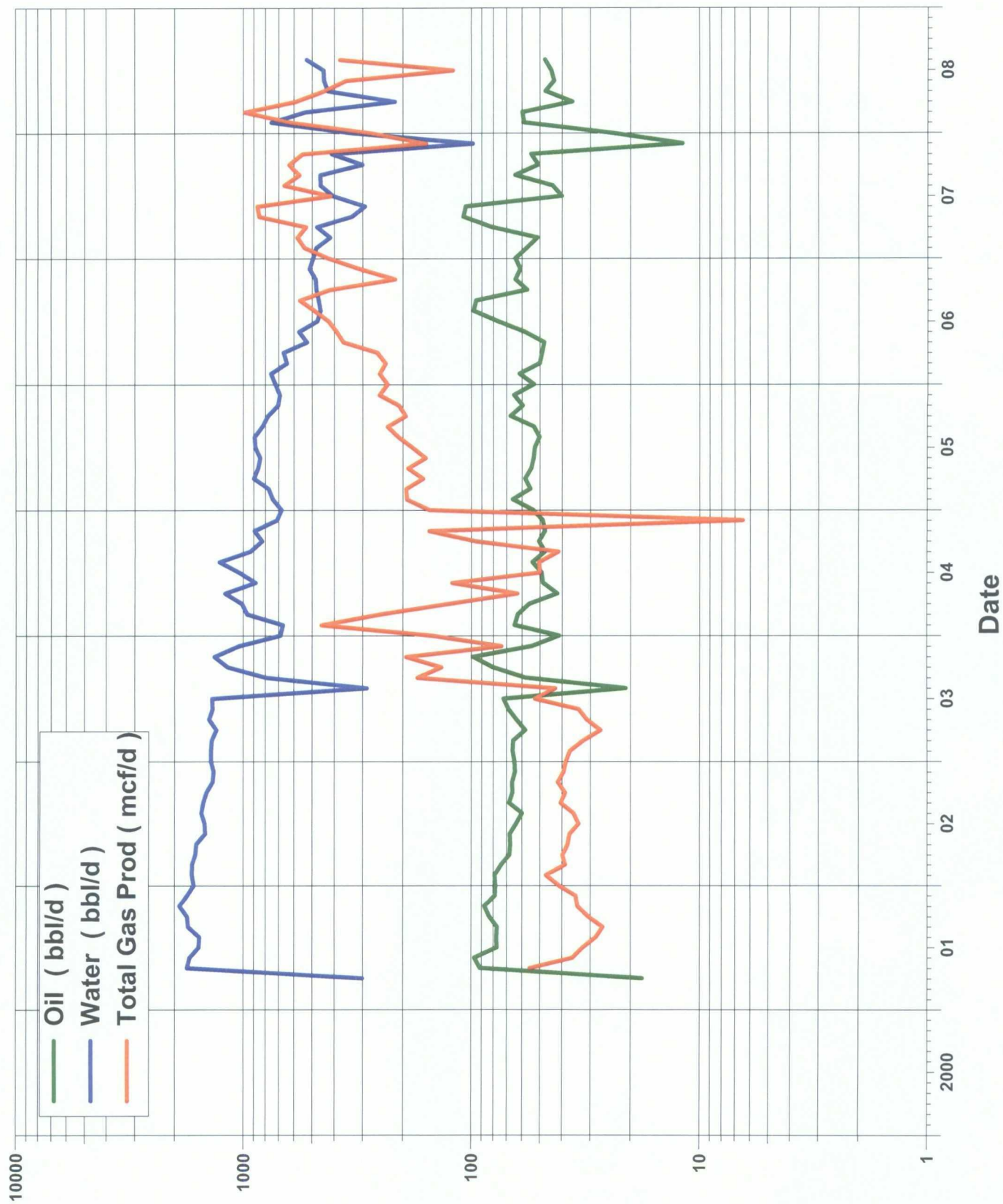
North Hobbs Unit 25641



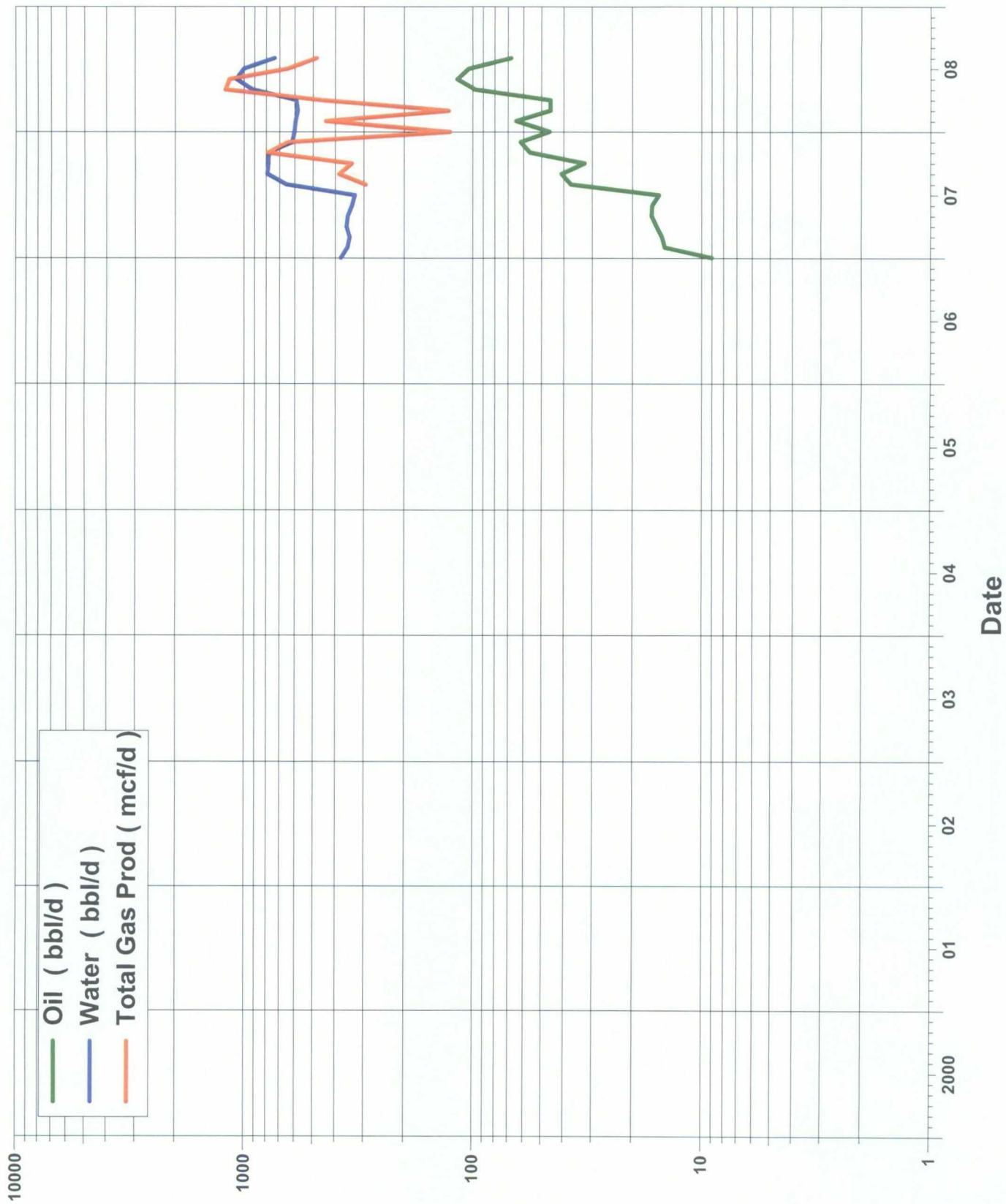
North Hobbs Unit 25642



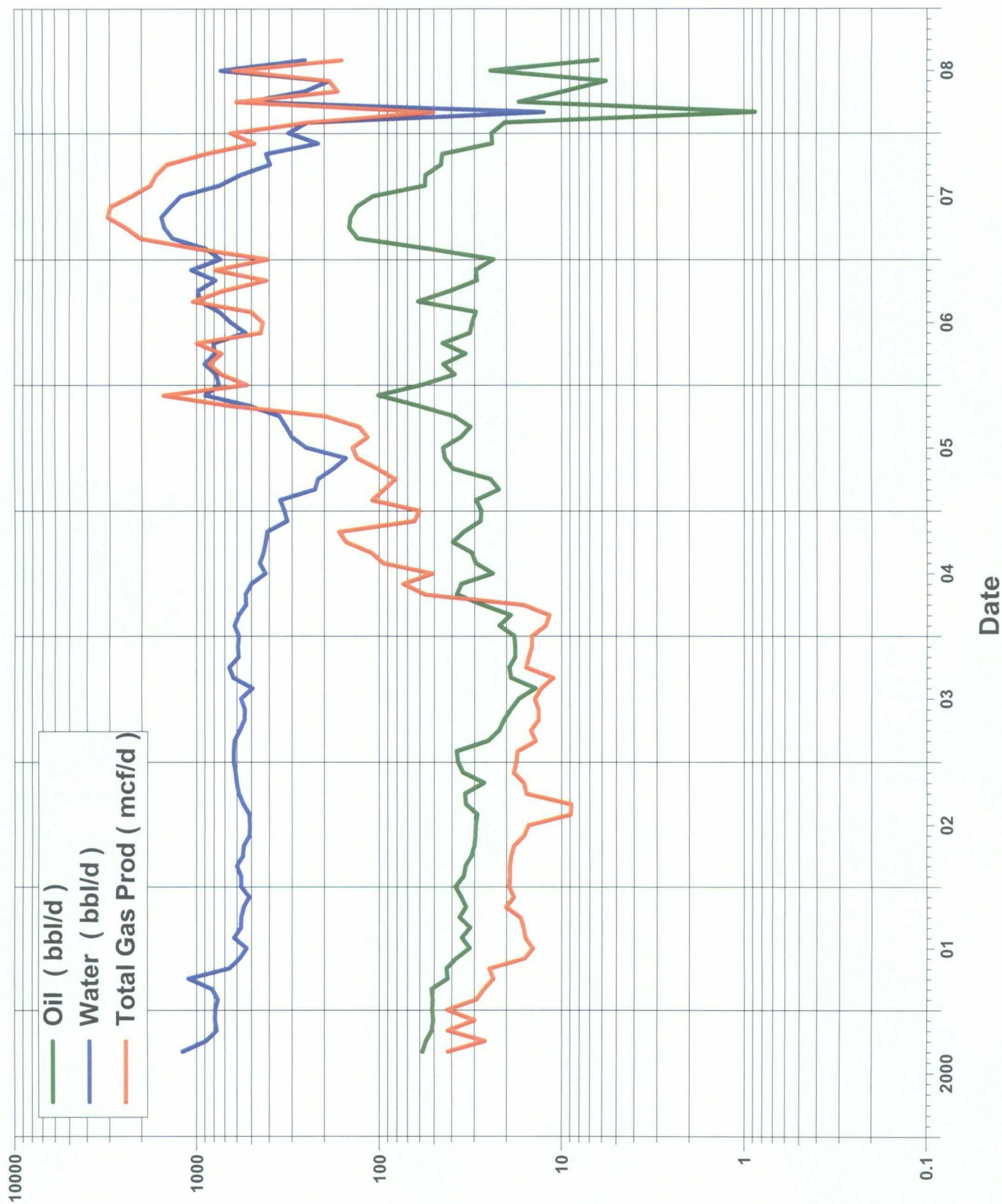
North Hobbs Unit 29643



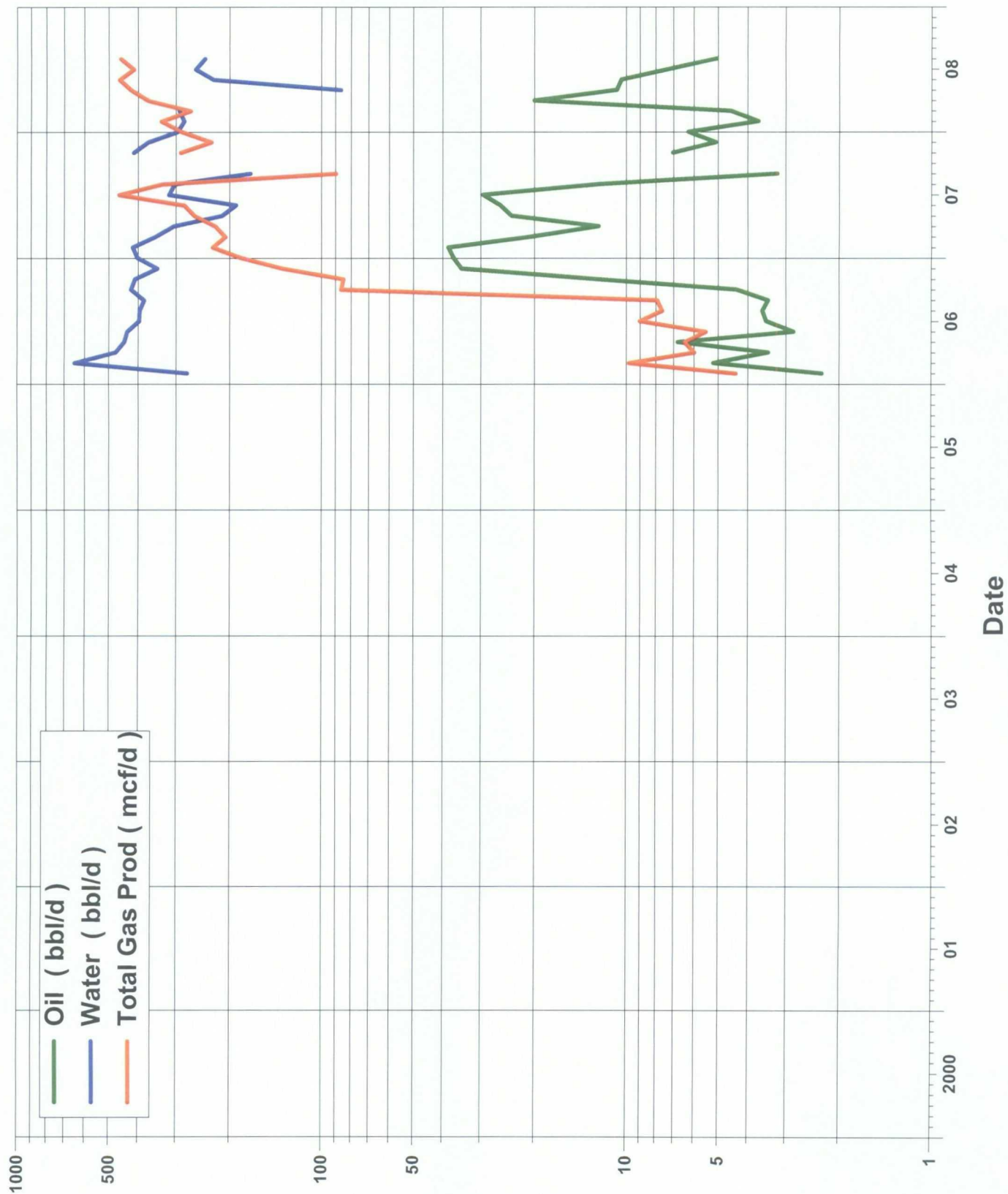
North Hobbs Unit 13645



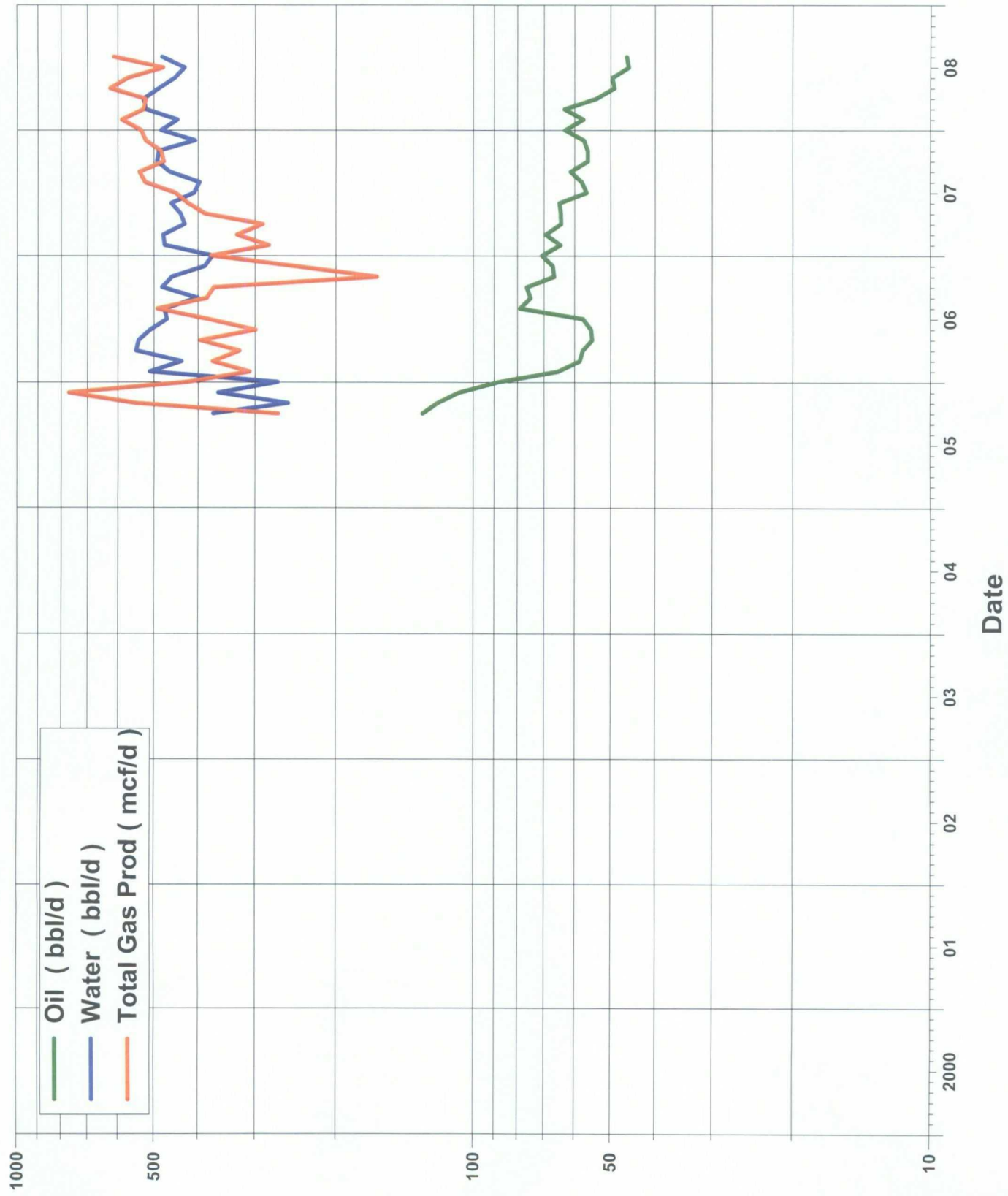
North Hobbs Unit 30713



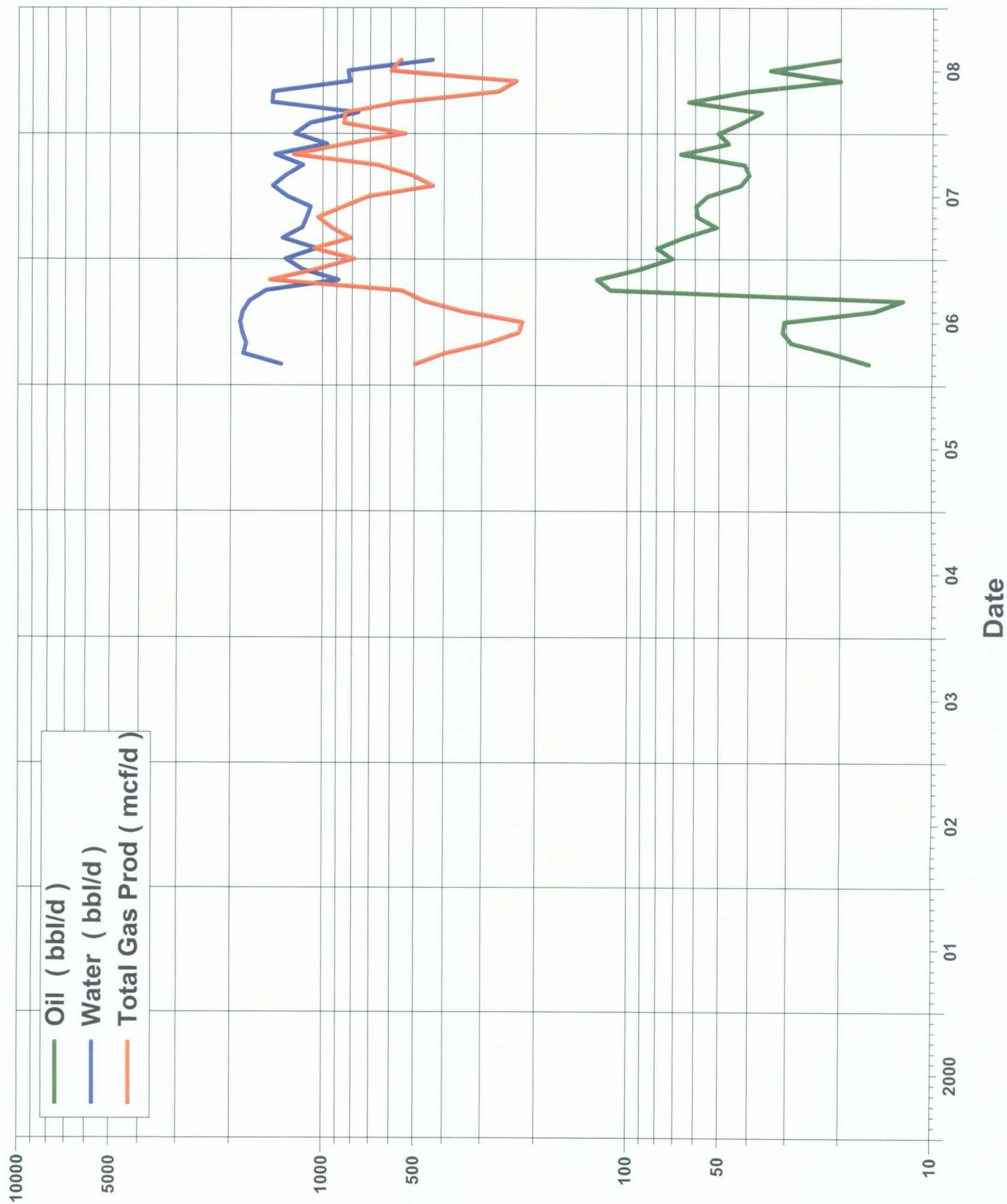
North Hobbs Unit 29721



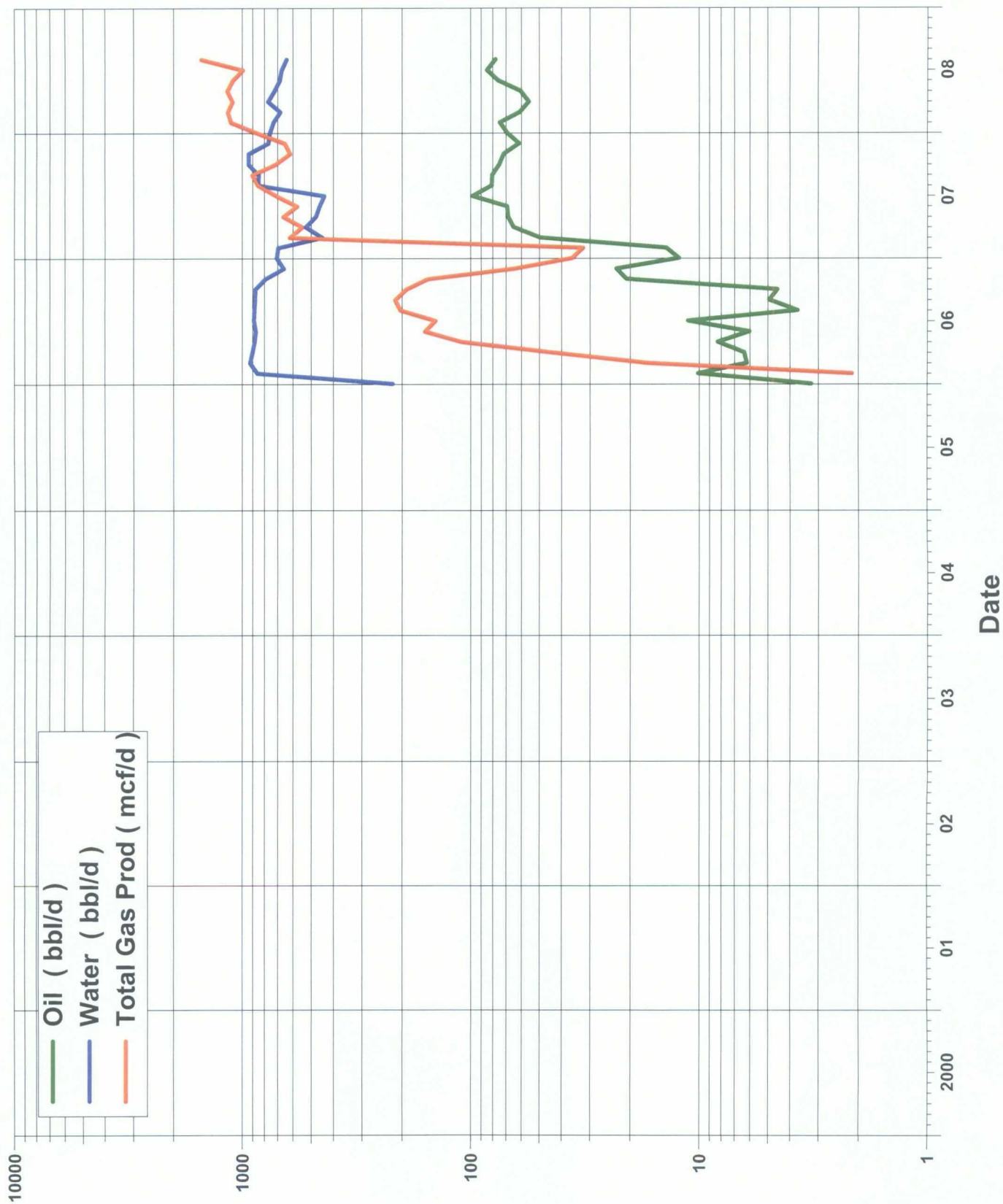
North Hobbs Unit 31722



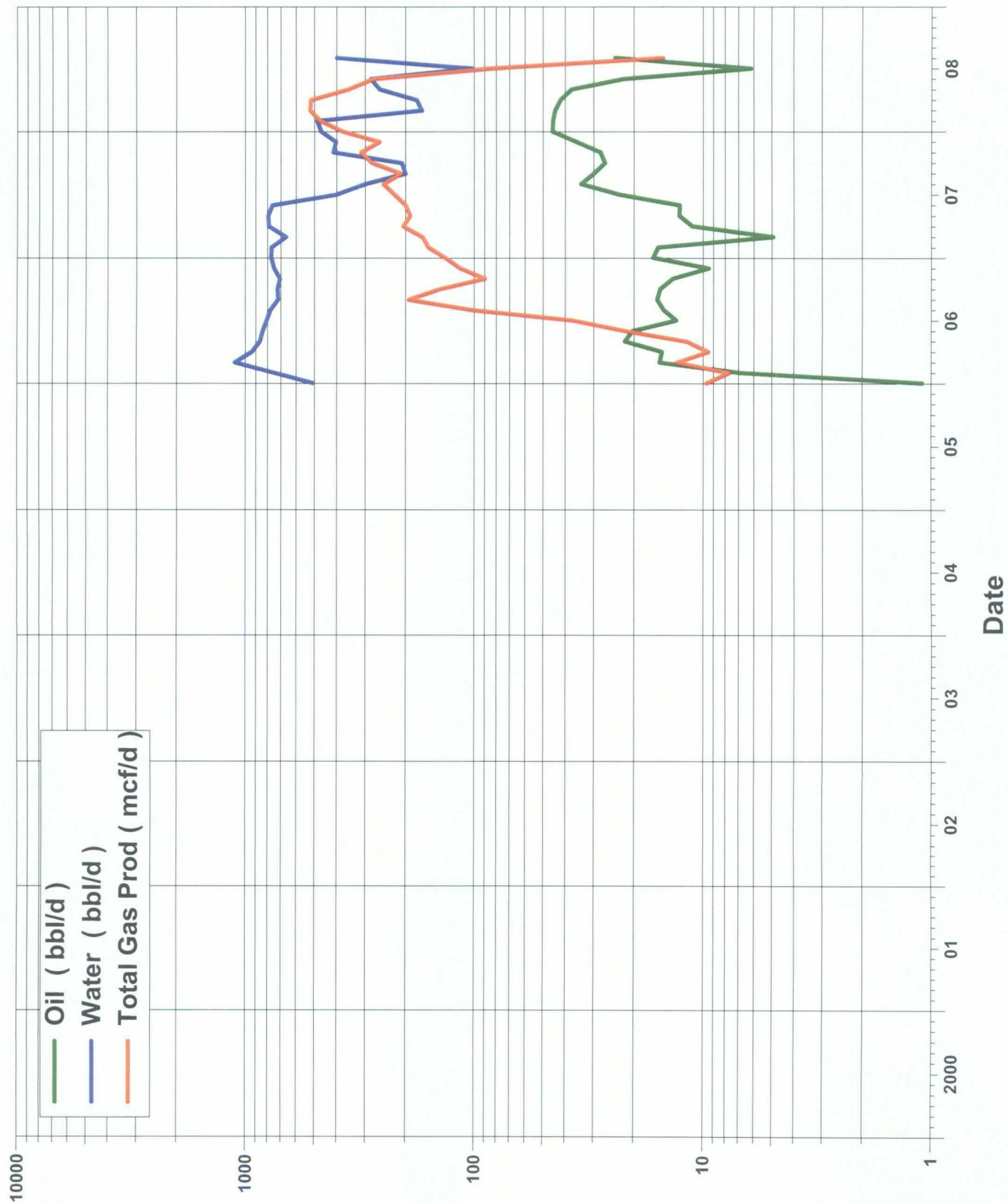
North Hobbs Unit 25731



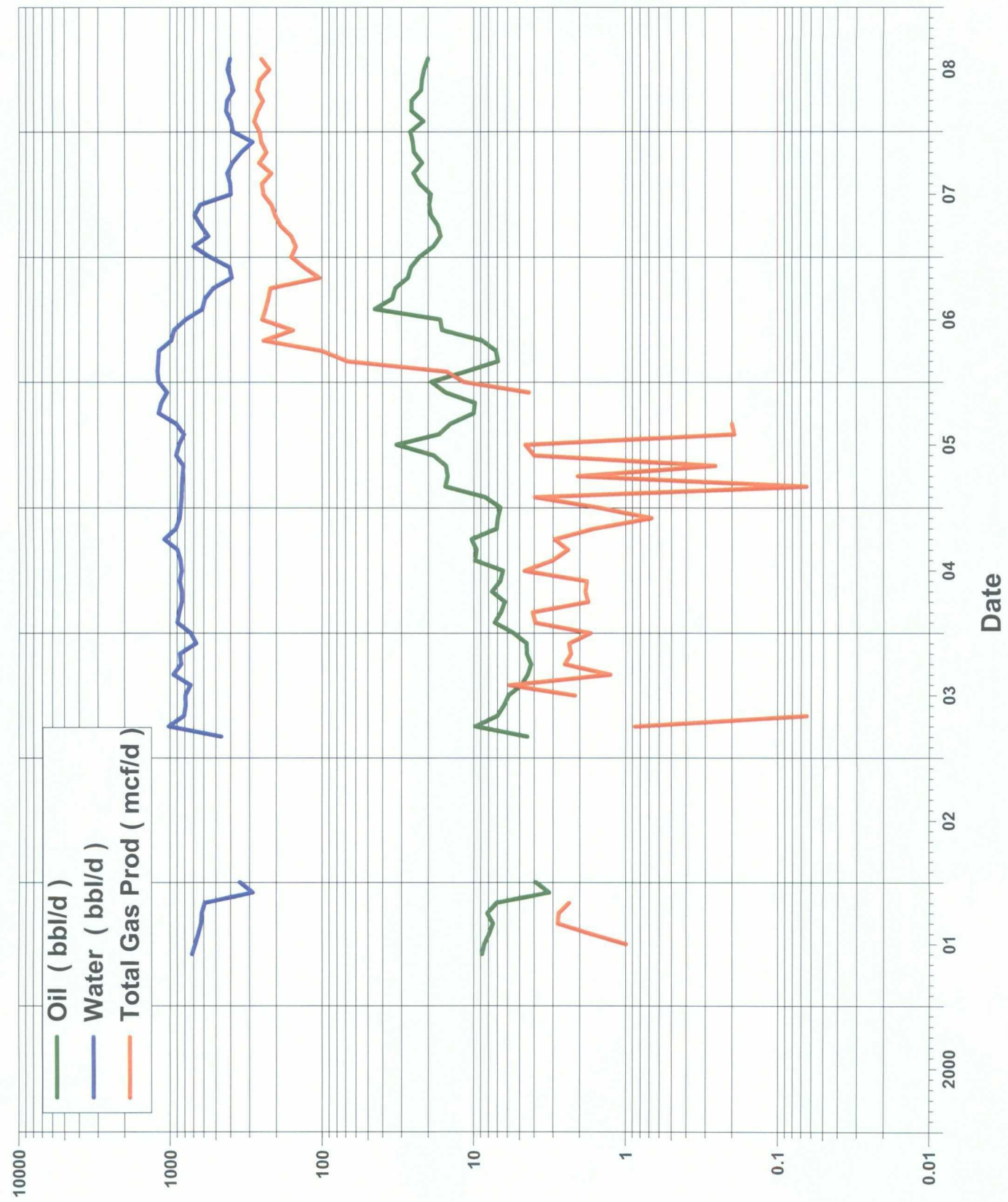
North Hobbs Unit 19733



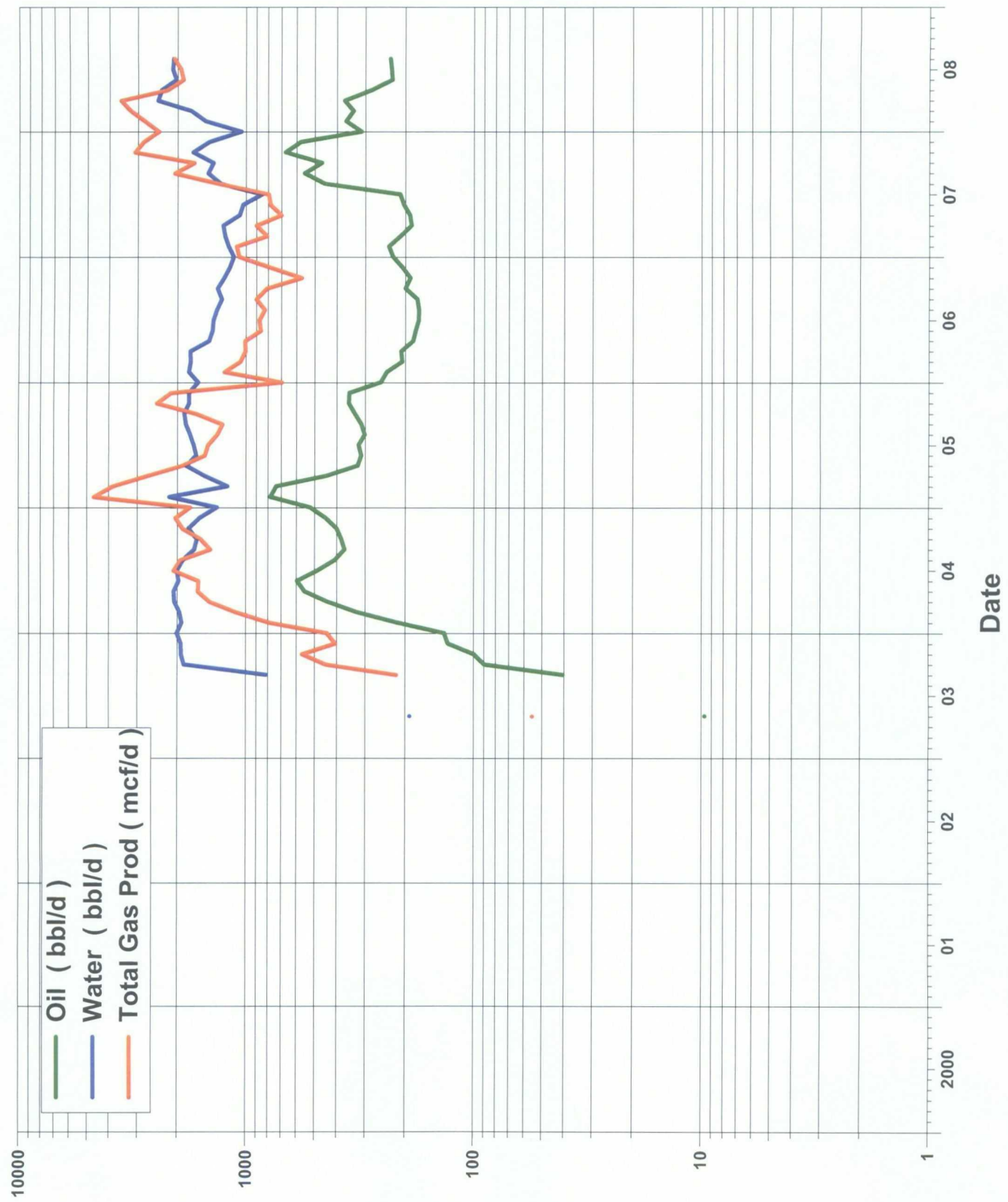
North Hobbs Unit 29742



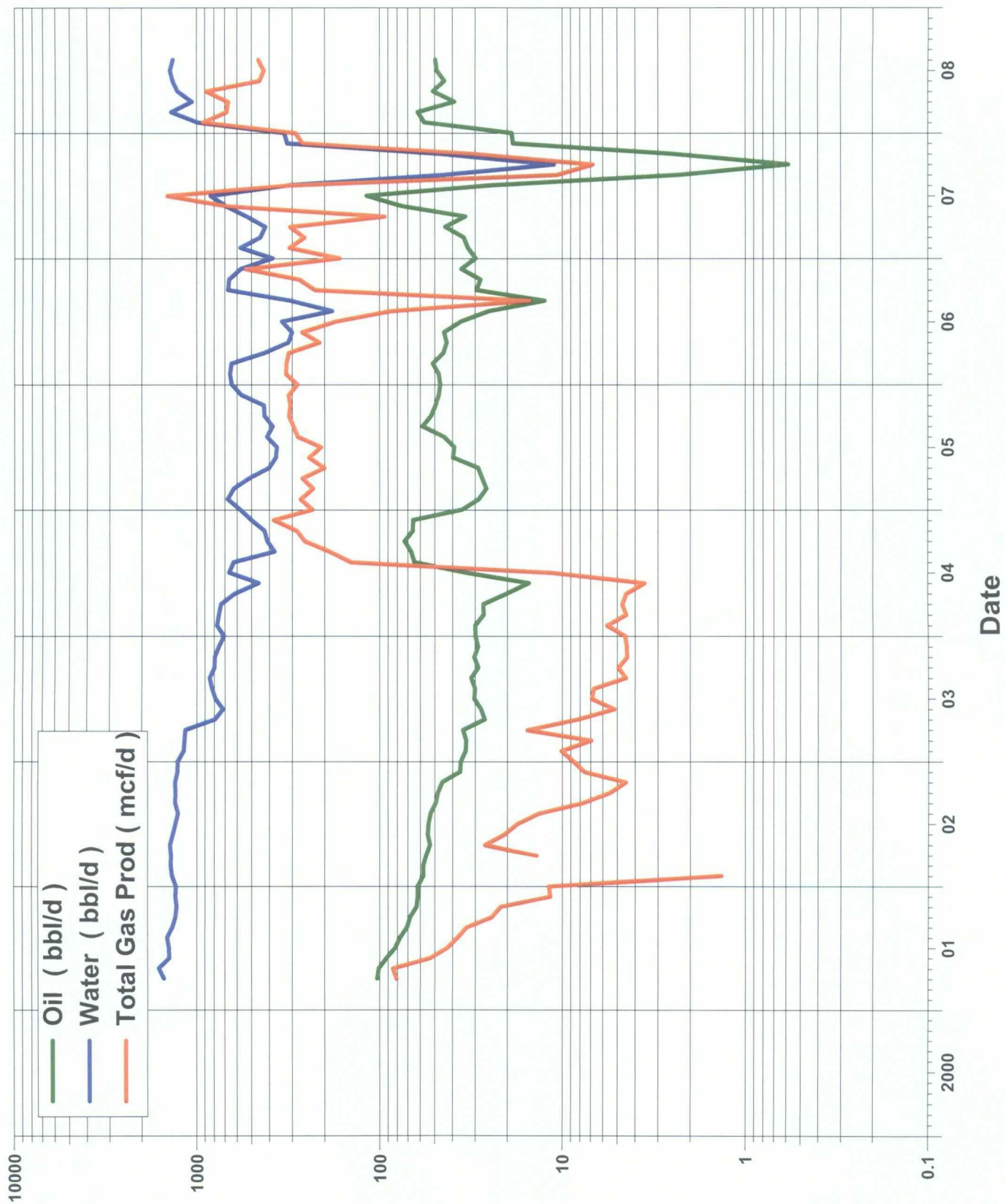
North Hobbs Unit 31743



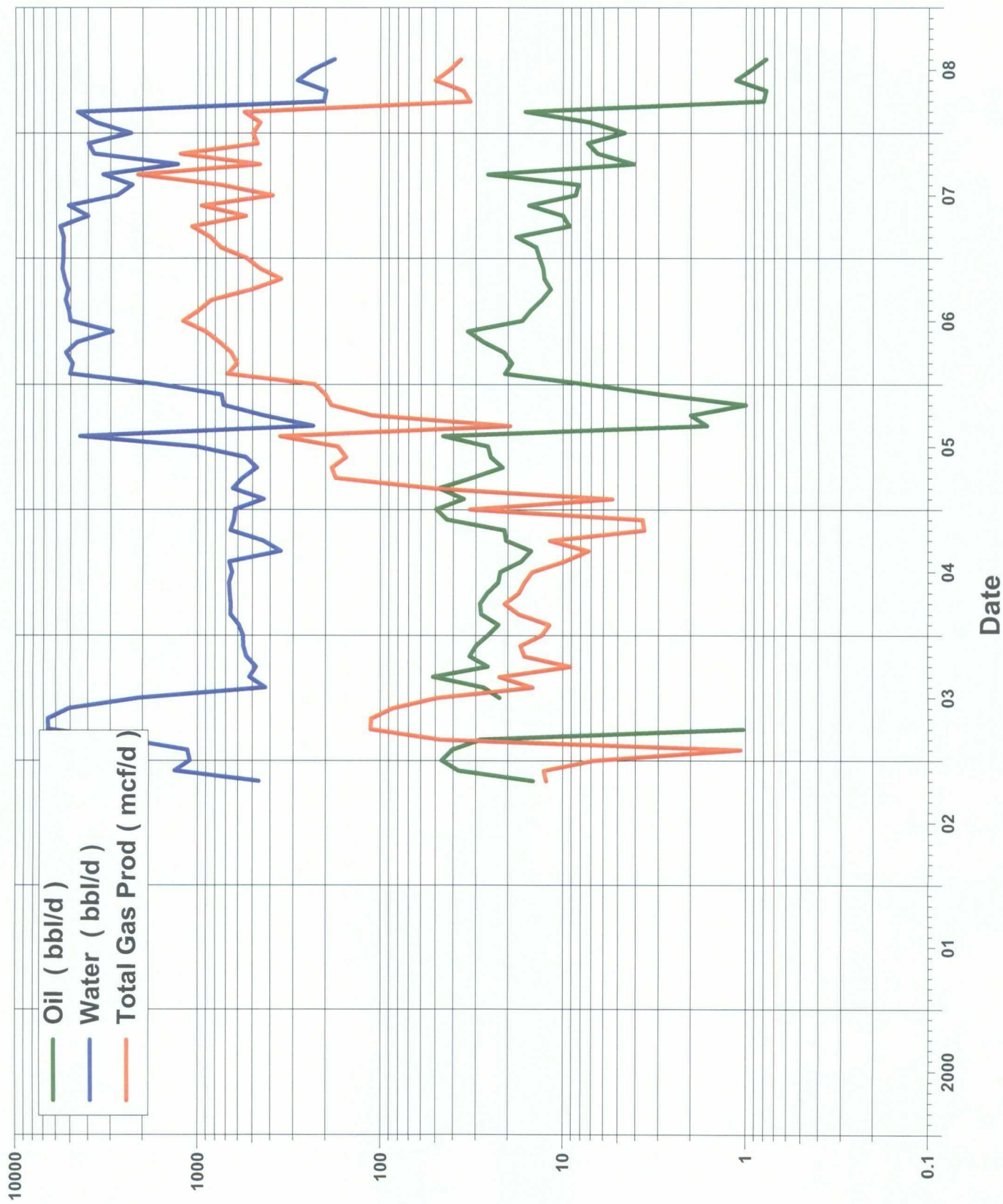
North Hobbs Unit 29814



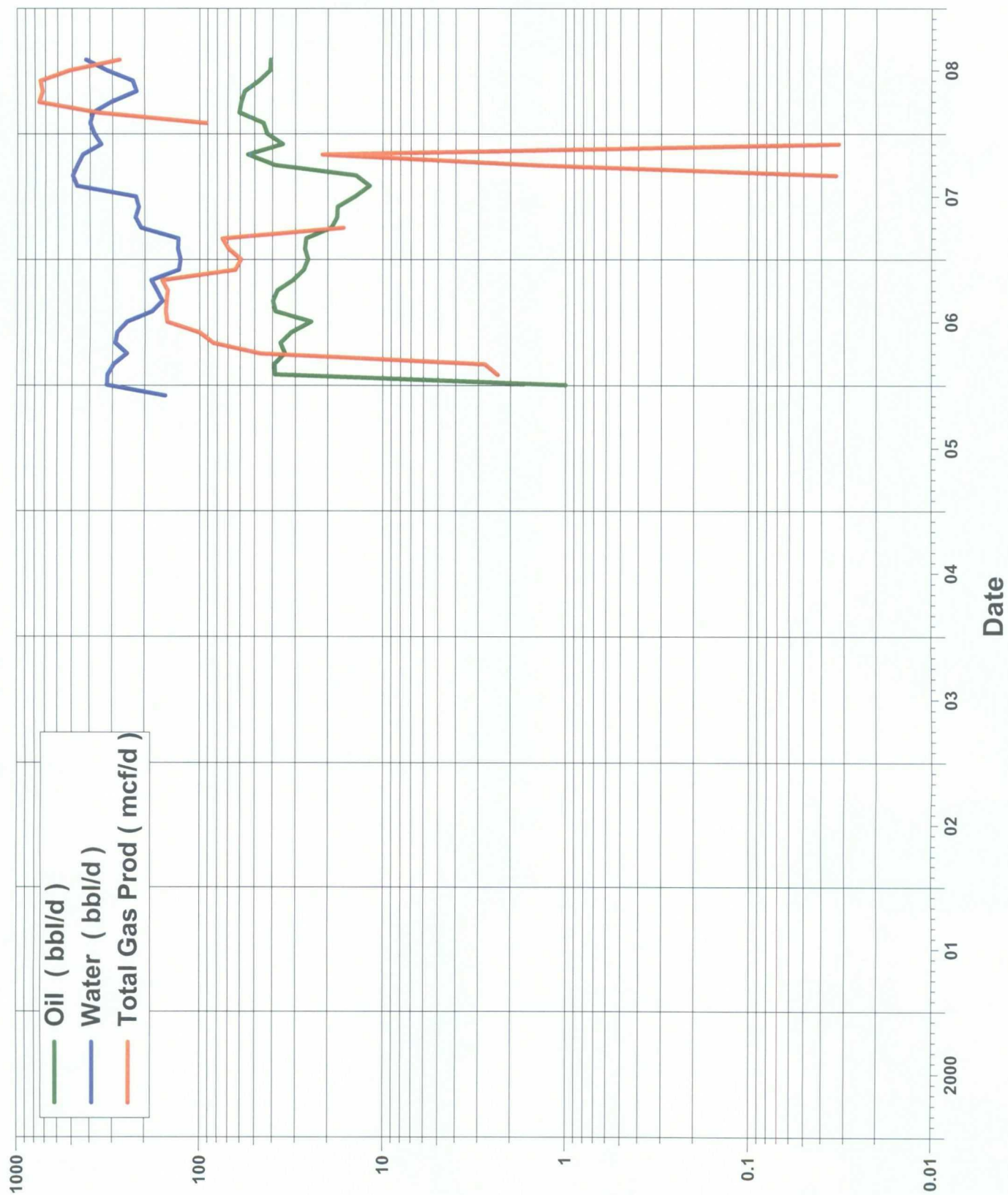
North Hobbs Unit 32913



North Hobbs Unit 29923HOR



North Hobbs Unit 19943



North Hobbs Unit 29944HOR

