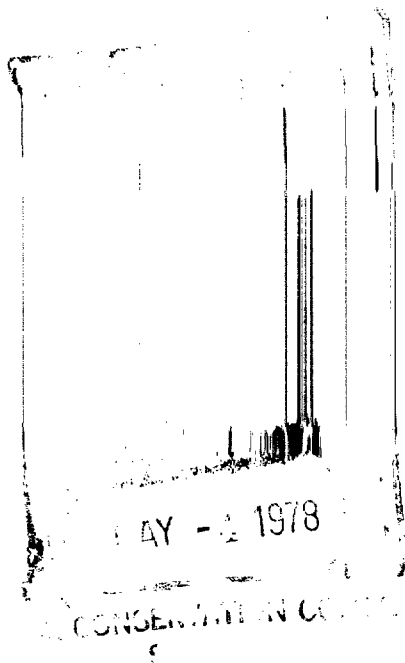


J. M. Brown
Division Engineering
Manager



Amoco Production Company

500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

April 25, 1978

File: DBF-986.51NM-2349

Re: Enlargement of Project Area
South Hobbs (Grayburg-San Andres) Unit
Pressure Maintenance
Lea County, New Mexico

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey, Director

Gentlemen:

Reference is made to your letter of March 28, 1978 and my letter of February 17, 1978 regarding an extension to the project area in South Hobbs Unit.

Attached are well test graphs for the seven wells in question. We believe that response to water injection operations, which began in January, 1976, can be seen in six of the seven graphs. The production from Well No. 4 in Unit K of Section 34 has been so erratic that we could not interpret this graph. Also, since these wells are not surrounded by water injection wells, we would not expect to see the classic waterflood response, i.e. a rapid decline in GOR to solution gas values, but would expect to see more gradual changes such as a gradual decline in GOR or an arresting of oil production decline.

Should you have any questions, please contact Mr. Jim Pease, phone number 713-652-5461.

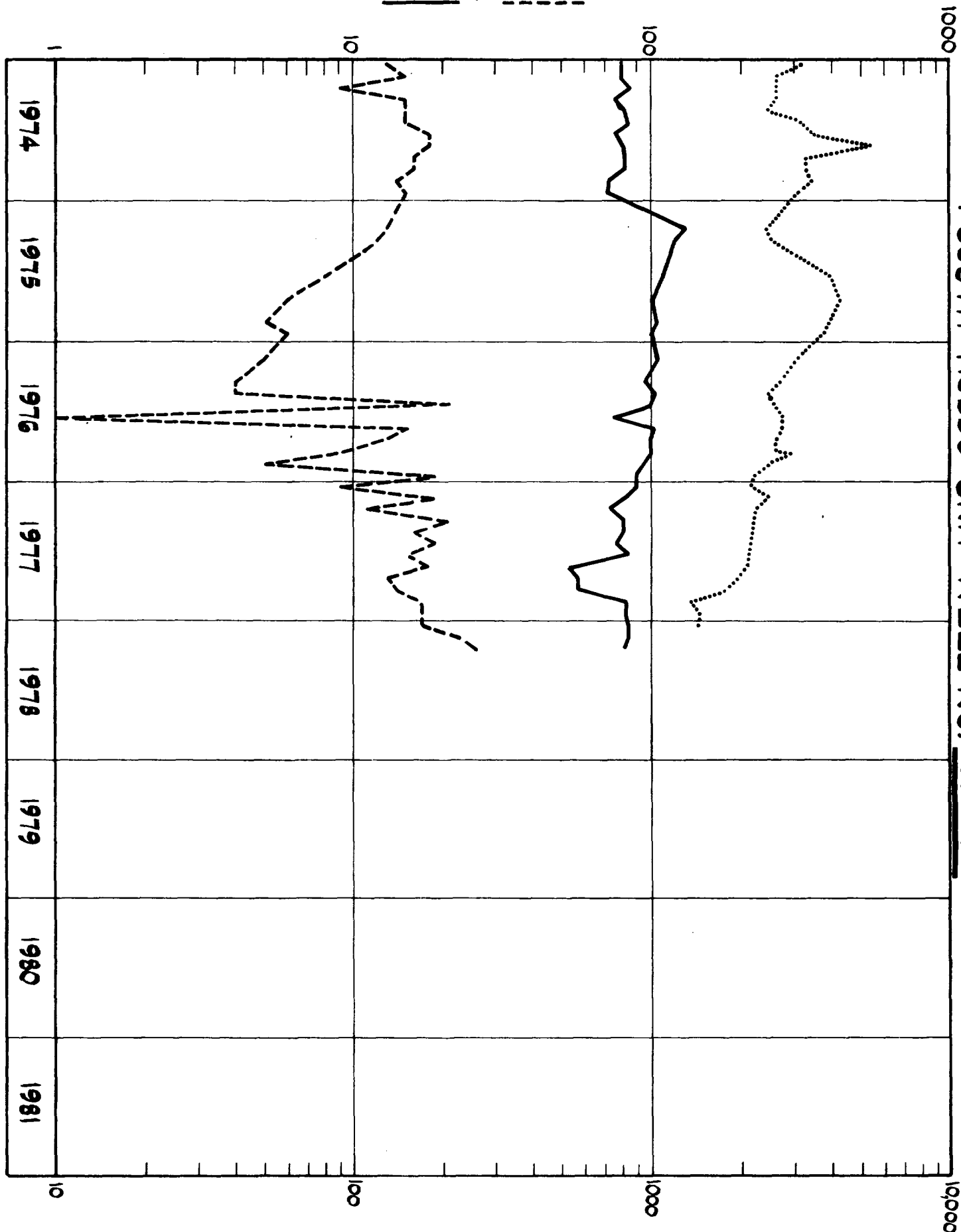
Yours very truly,

J M Brown

JEP:sam
Attachments

BOPD & BWPD

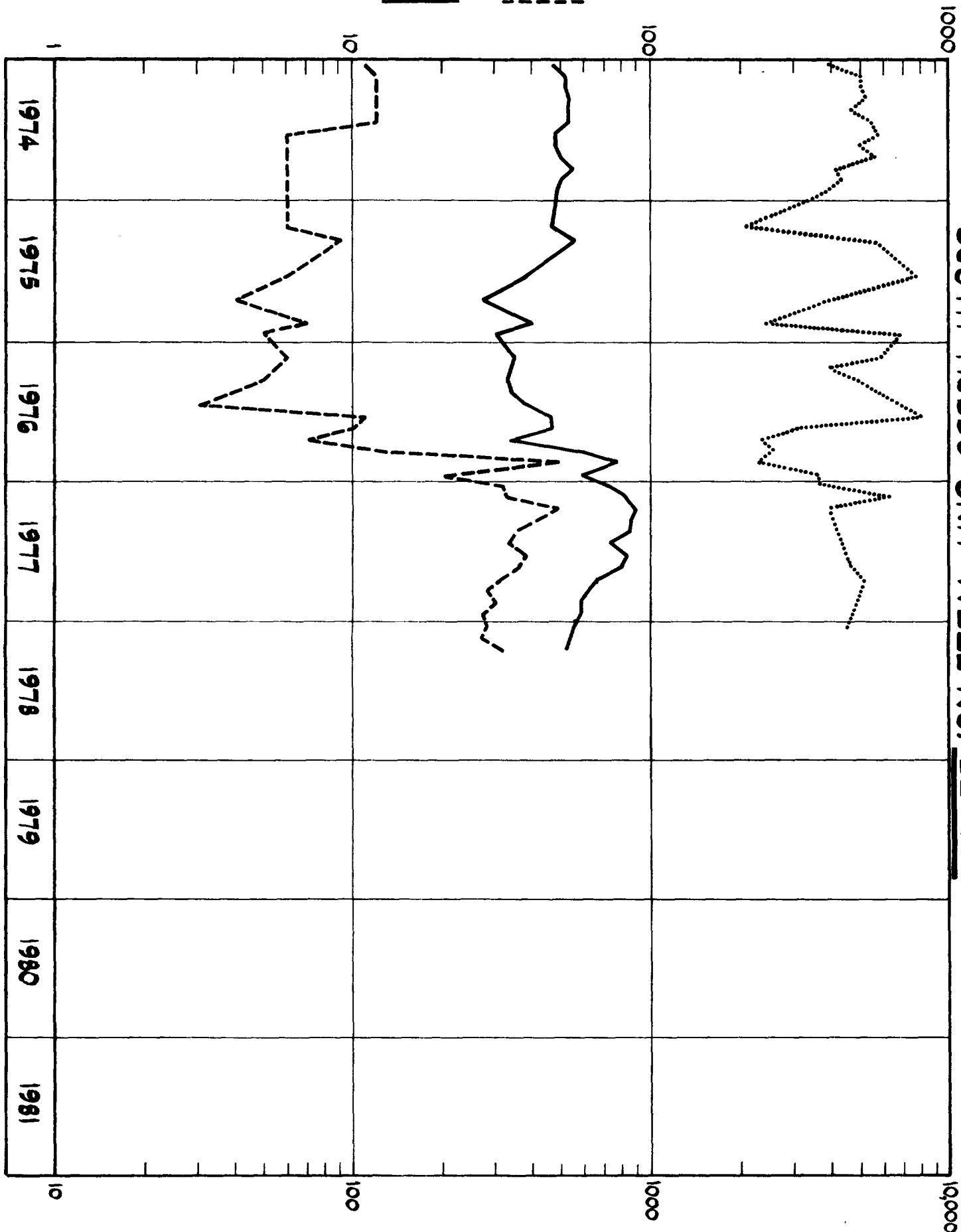
SOUTH HOBBS UNIT WELL NO. 1D34



GAS-OIL RATIO, CUBIC FEET PER BARREL

BOPD & BWPD

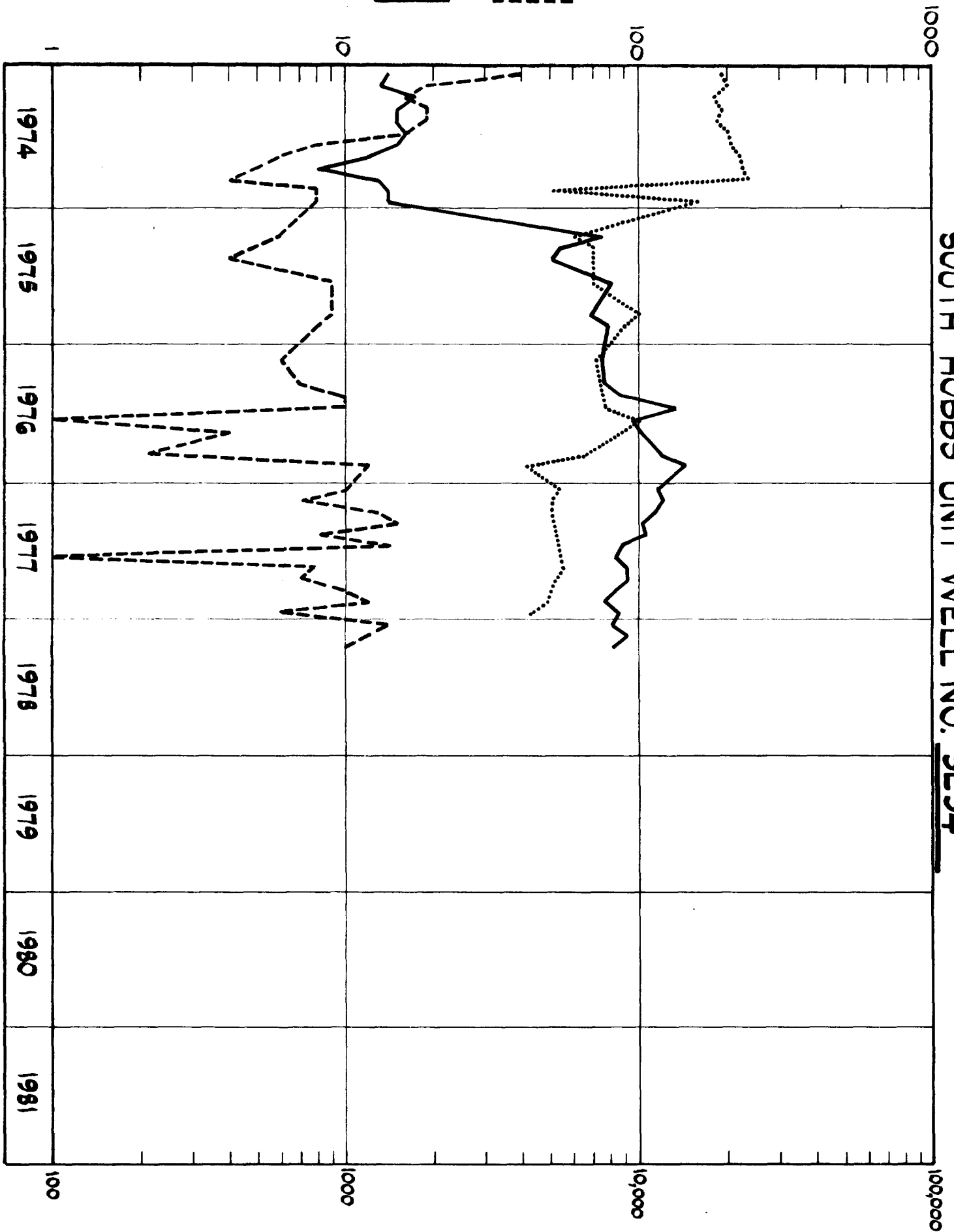
SOUTH HOBBS UNIT WELL NO. 2E34



GAS-OIL RATIO, CUBIC FEET PER BARREL

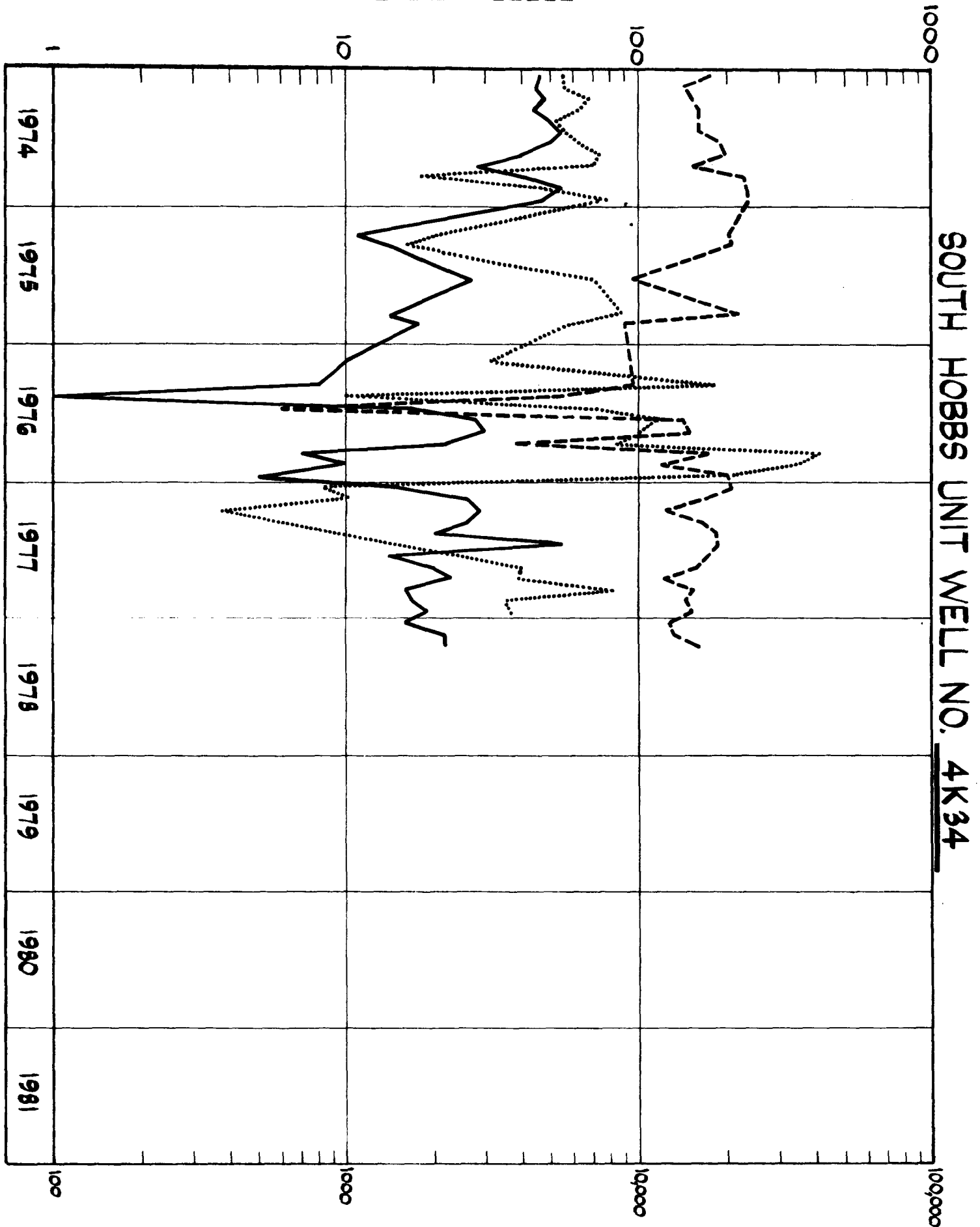
BOPD & BWPD

SOUTH HOBBS UNIT WELL NO. 3L34



GAS-OIL RATIO, CUBIC FEET PER BARREL

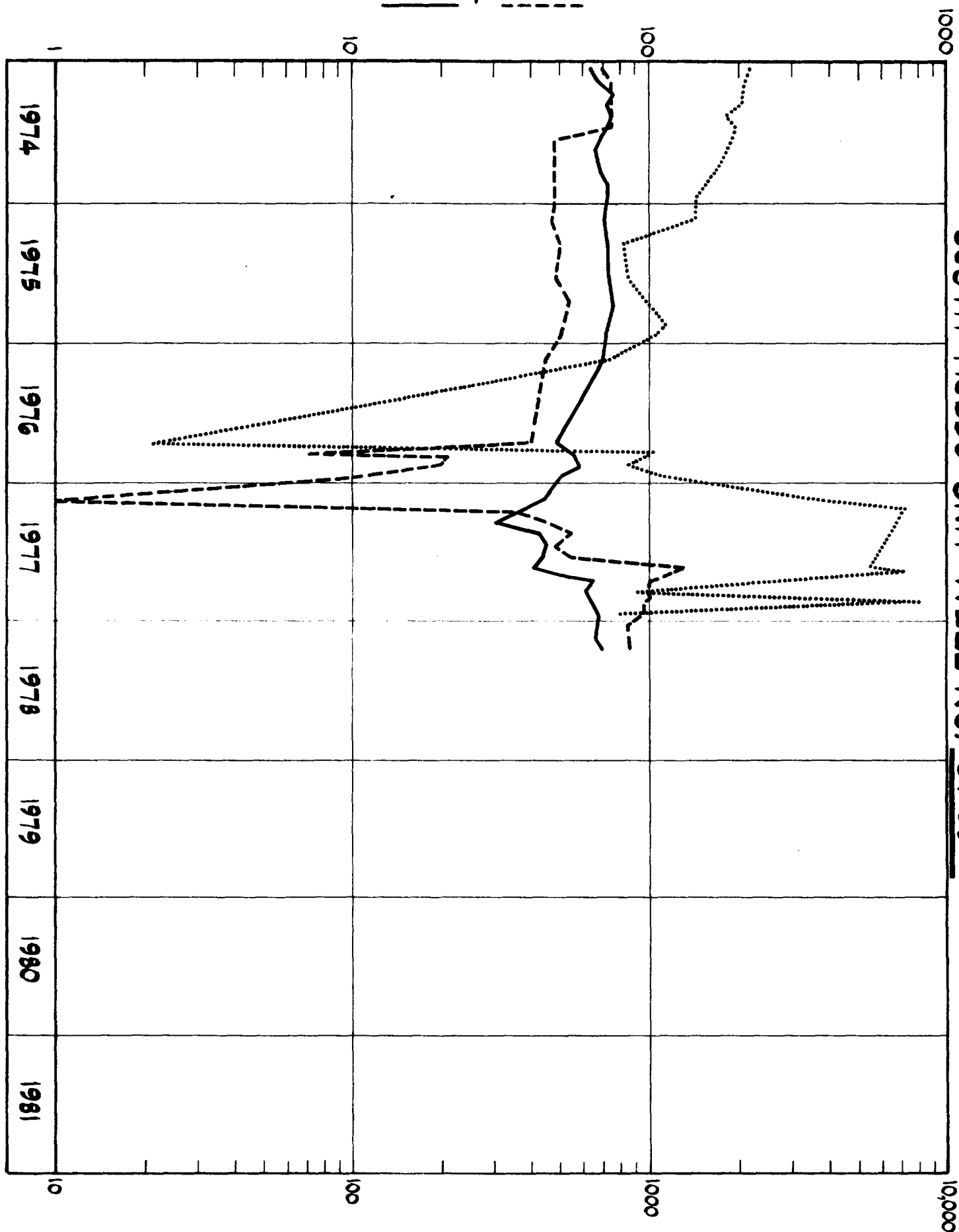
BOPD & BWPD



GAS-OIL RATIO, CUBIC FEET PER BARREL

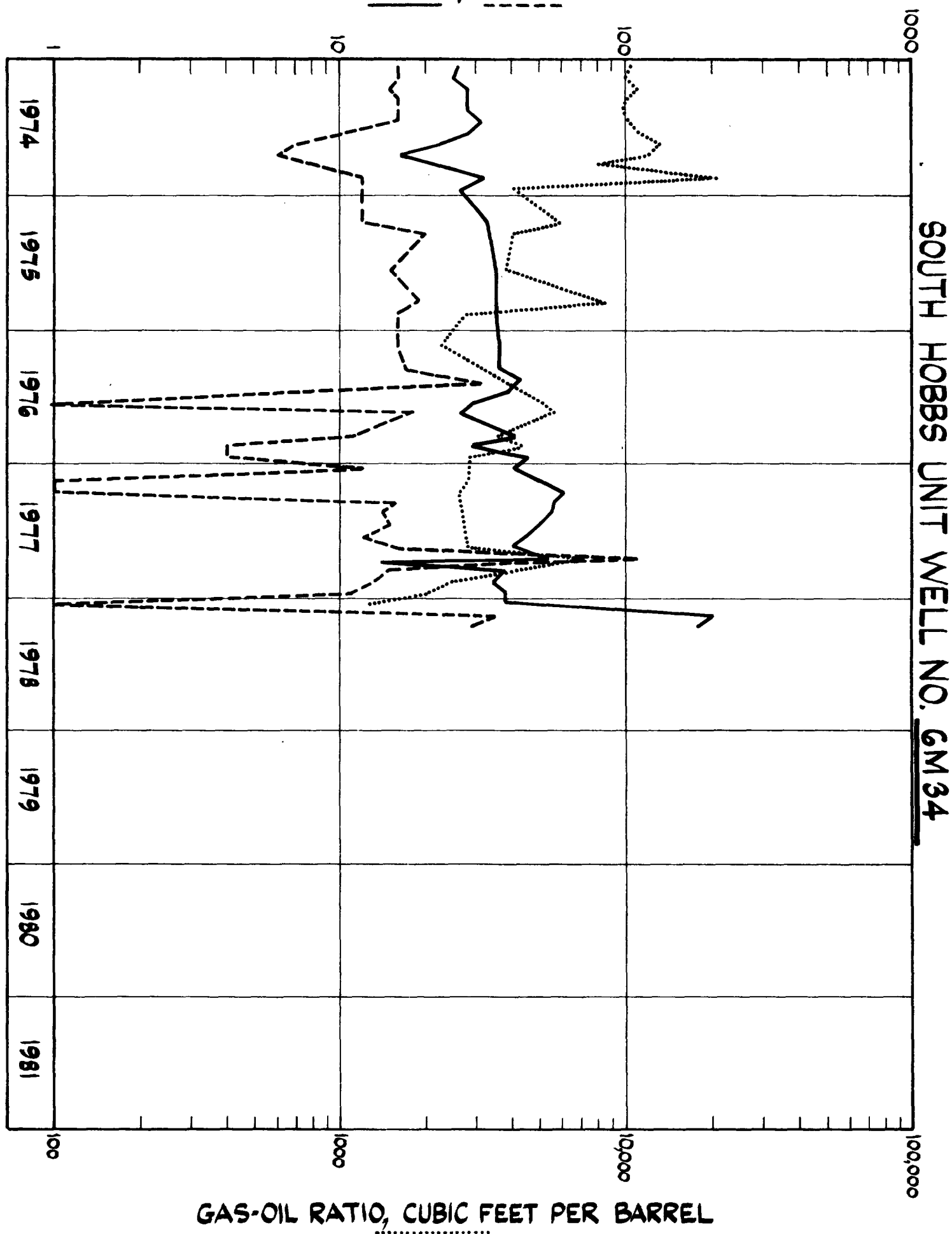
BOPD & BWPD

SOUTH HOBBS UNIT WELL NO. 5P33



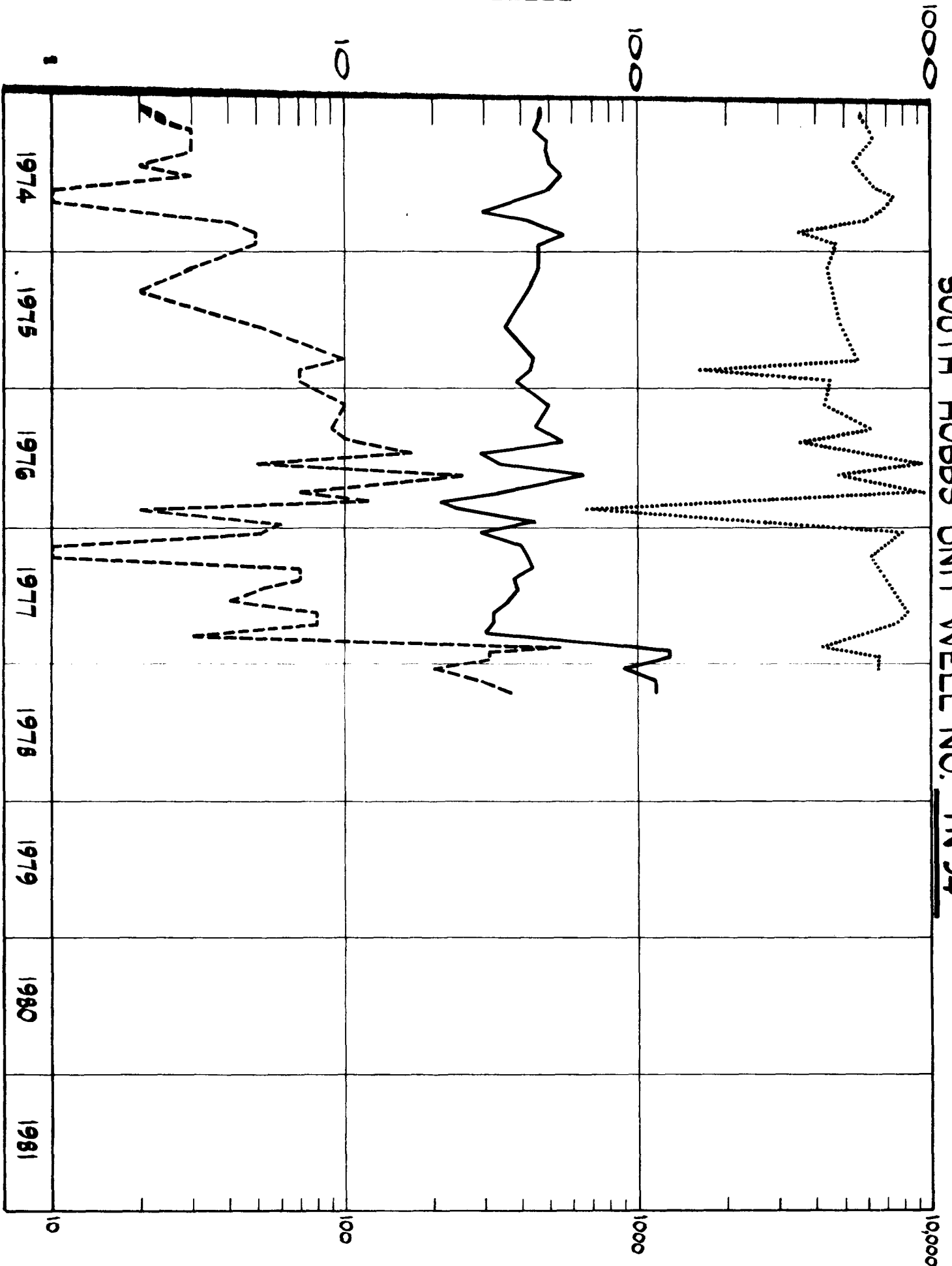
GAS-OIL RATIO, CUBIC FEET PER BARREL

BOPD & BWPD



BOPD & BWPD

SOUTH HOBBS UNIT WELL NO. 7N 34



GAS-OIL RATIO, CUBIC FEET PER BARREL



J. M. Brown
Division Engineering
Manager

February 17, 1978

Amoco Production Company

500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

FEB 20 1978

OIL CONSERVATION COMMISSION
SANTA FE, NM

File: DBF-986.51NM-1466

Re: Enlargement of Project Area
South Hobbs (Grayburg-San Andres) Unit
Pressure Maintenance
Lea County, New Mexico

1000 5372
C. J. Brown

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Rule 10 of the Special Rules and Regulations for the Amoco South Hobbs Grayburg-San Andres Pressure Maintenance Project provides for expansion of the project by the Secretary - Director of the Commission.

Amoco Production Company requests approval for expansion of the project area by the addition of the following area:

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM
Section 33: SE/4 SE/4
Section 34: SW/4, W/2 NW/4

This area was originally committed to the South Hobbs Unit and wells in this area have recently experienced an increase in oil production.

Yours very truly,

J. M. Brown

JEP/jt
5/3381

cc: Mr. Jerry T. Sexton
P. O. Box 1980
Hobbs, NM 88240

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 28, 1978

**Amoco Production Company
Box 3092
Houston, Texas 77001**

Attention: Mr. J. M. Brown

Gentlemen:

This is with reference to your letter of February 17, 1978, wherein you request an extension to the project area in your South Hobbs Unit.

It is our opinion that Rule 10 applies only to uncommitted tracts and I therefore cannot expand the project area on the basis of this rule. However, if response has occurred in the requested area and can be substantiated by well tests, then the area can be extended.

Yours very truly,

**JOE D. RAMEY
Director**

JDR/fd

C
O
P
Y

OIL CONSERVATION COMMISSION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87501

March 10, 1978

Mr. J. H. Brown
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Brown:

Reference is made to your letter of February 17, 1978.

As you requested an extension to the project area in your letter of February 17, 1978, the Commission has approved the extension to the project area in the amount of 100 acres.

The Commission has also approved the extension to the project area in the amount of 100 acres. The Commission has also approved the extension to the project area in the amount of 100 acres. The Commission has also approved the extension to the project area in the amount of 100 acres.

Very truly yours,

John H. Brown
Director

cc: Mr. Brown