

EXHIBIT 1

BTA OIL PRODUCERS
CASE NO. 4496
VADA TREND (BOUGH "C")
LEA & ROOSEVELT COUNTIES, NEW MEXICO

PROJECT AREA
▲ INITIAL INJECTION WELL
● PRODUCER

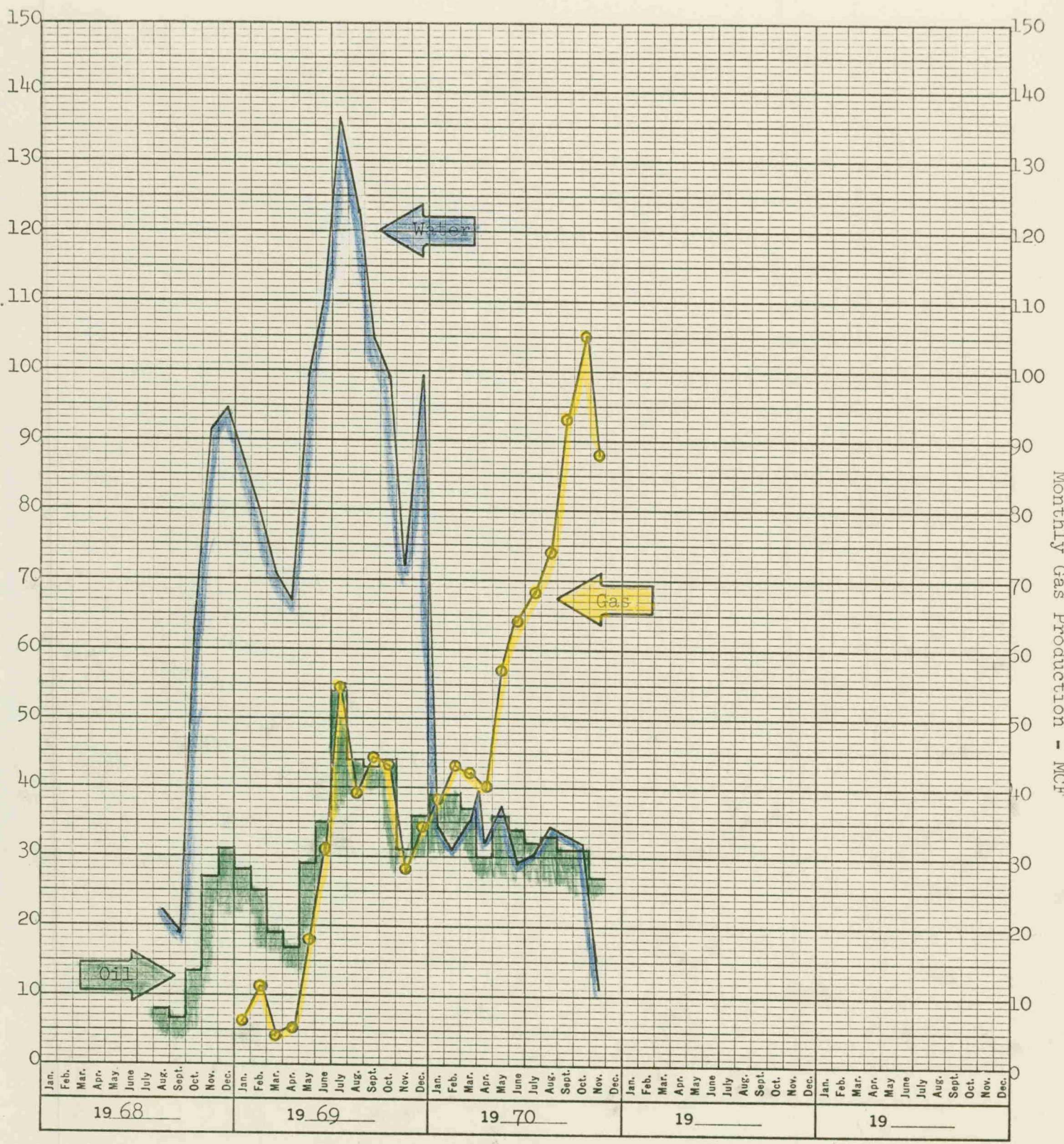
SCALE: 1" = 4000'

BTA Oil Producers
 685 Bond Lease
 Vada Pool
 6 Wells

Monthly Oil & Water Production
 1,000 Bbbls

5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.

46 3413
 MADE IN U.S.A.



Cumulative to 12-1-70:
 Oil 856,751 Bbbls
 Gas 1,029,707 MCF
 Water 1,796,248 Bbbls

BEFORE EXAMINER NUTTER
 U.S. CONSERVATION COMMISSION
 BTA EXHIBIT NO. 2
 CASE NO. 4496

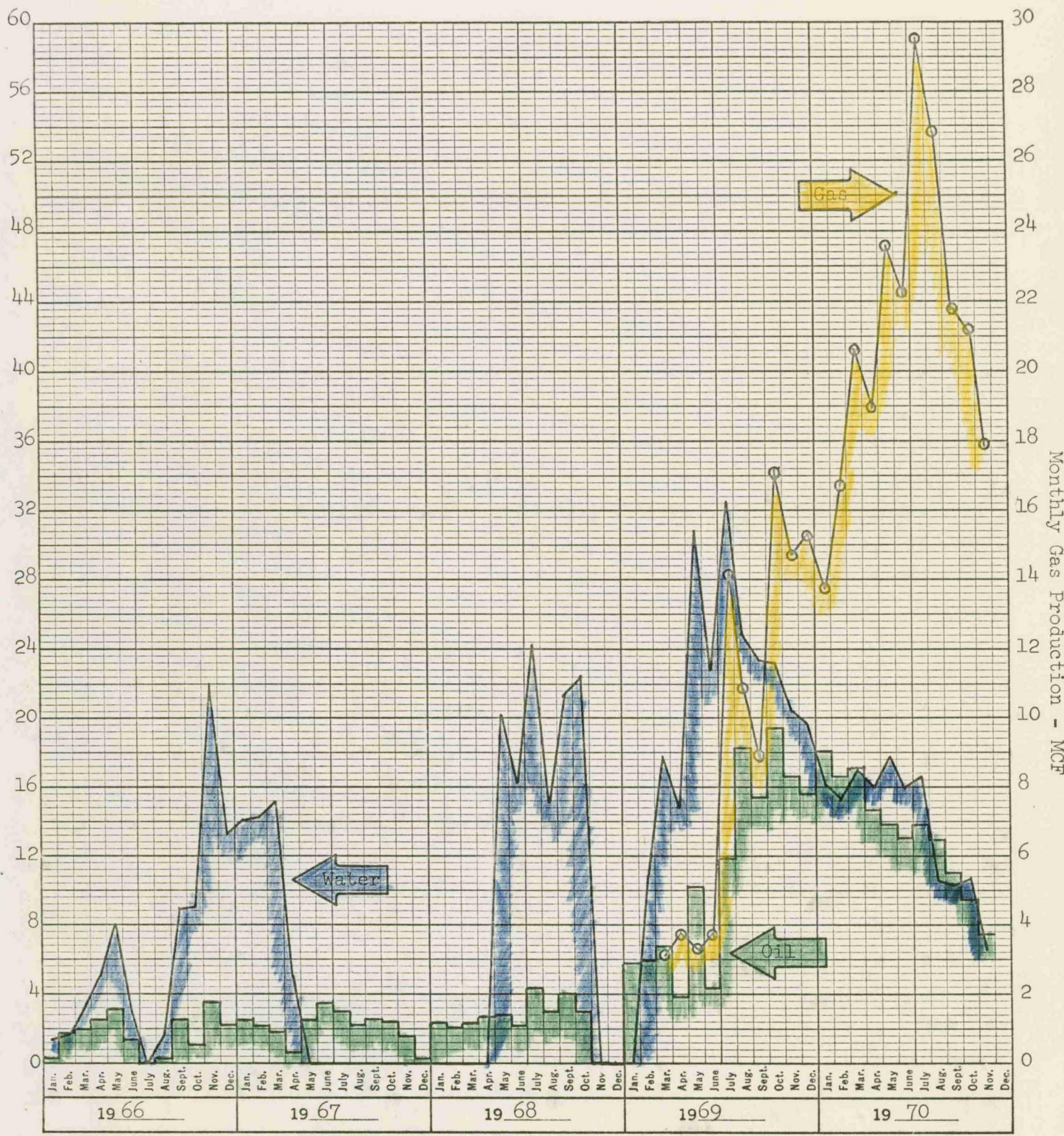
EXHIBIT 2
 CASE NO. 4496

BTA Oil Producers
 685 Northcott Lease
 Vada Pool
 2 Wells

Monthly Oil & Gas Production
 1,000 Bbls

46 3413
 MADE IN U.S.A.

5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.



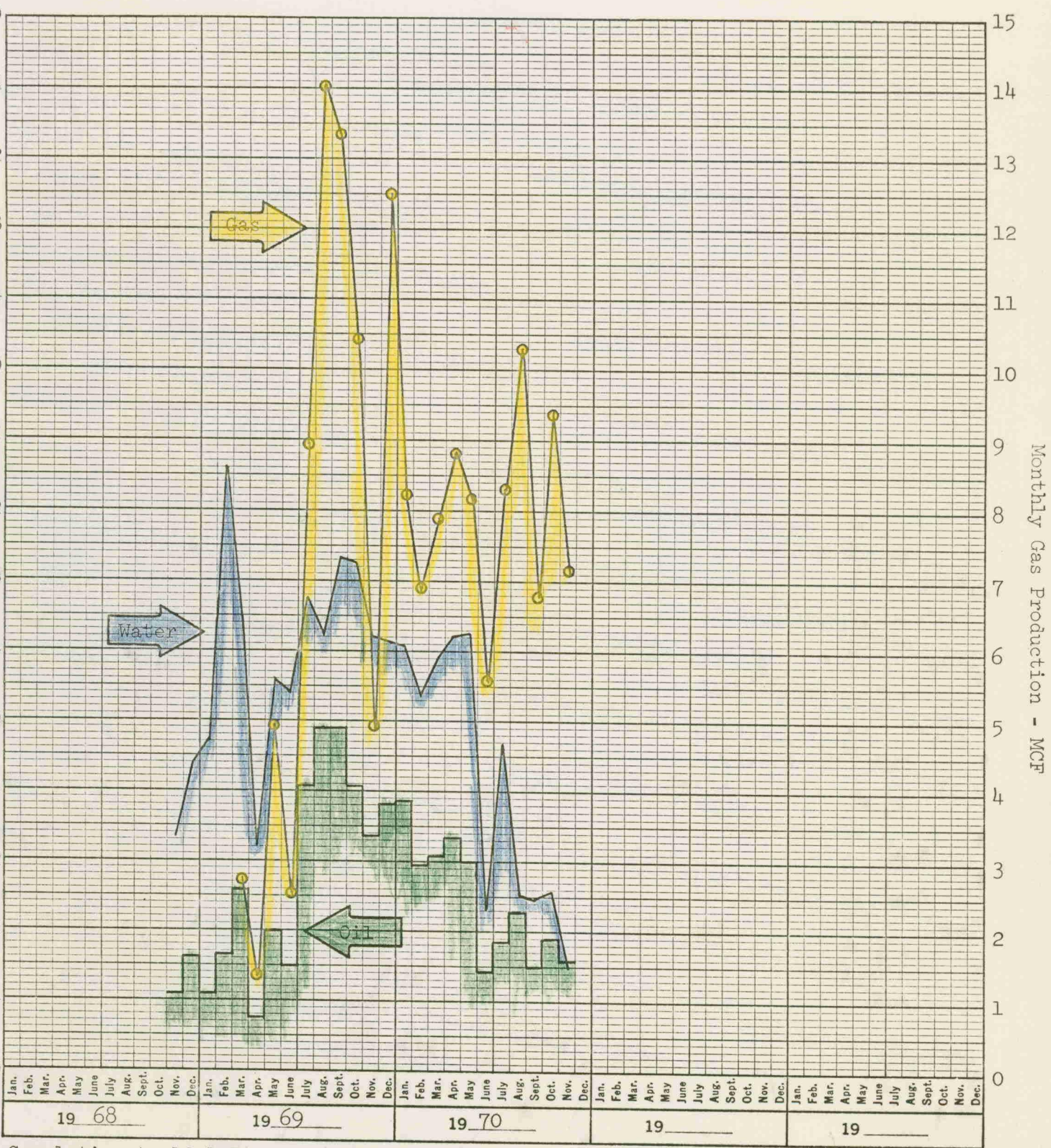
Cumulative to 12-1-70:
 Oil 365,383 Bbls
 Gas 367,601 MCF
 Water 728,997 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
EXHIBIT 3
 BTA EXHIBIT NO. 3
CASE NO. 4496
 CASE NO. 4496

BTA Oil Producers
 686 Harris Lease
 Vada Pool
 2 Wells

Monthly Oil & Water Production
 1,000 Bbls

KE 5 YEARS BY MONTHS 46 3413
 X 150 DIVISIONS MADE IN U.S.A.
 KEUFFEL & ESSER CO.



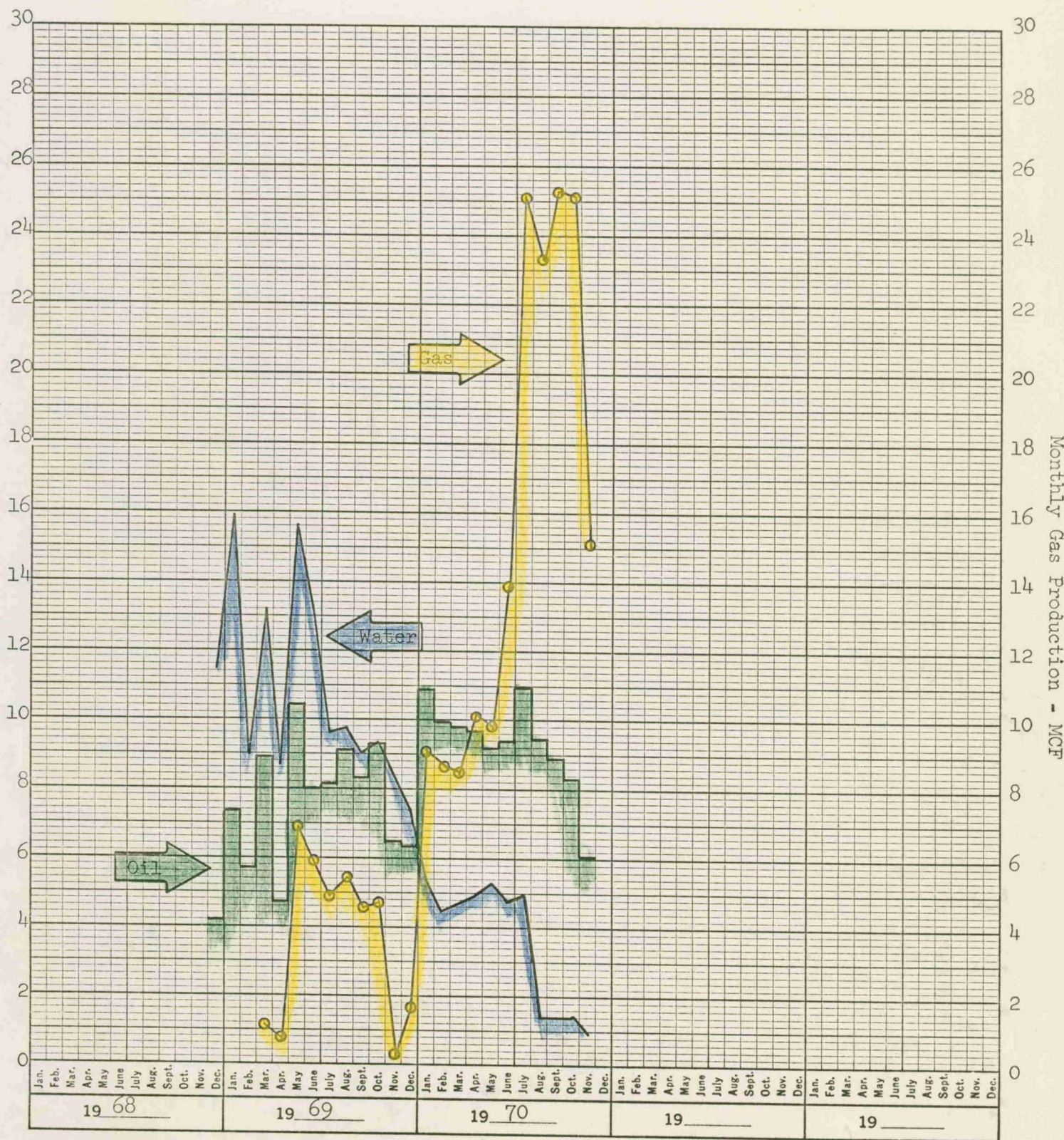
Cumulative to 12-1-70:
 Oil 257,957 Bbls
 Gas 163,295 MCF
 Water 509,210 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 4
 CASE NO. 4496
EXHIBIT 4
CASE NO. 4496

BTA Oil Producers
 687 Davis Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.
 46 3413
 MADE IN U.S.A.



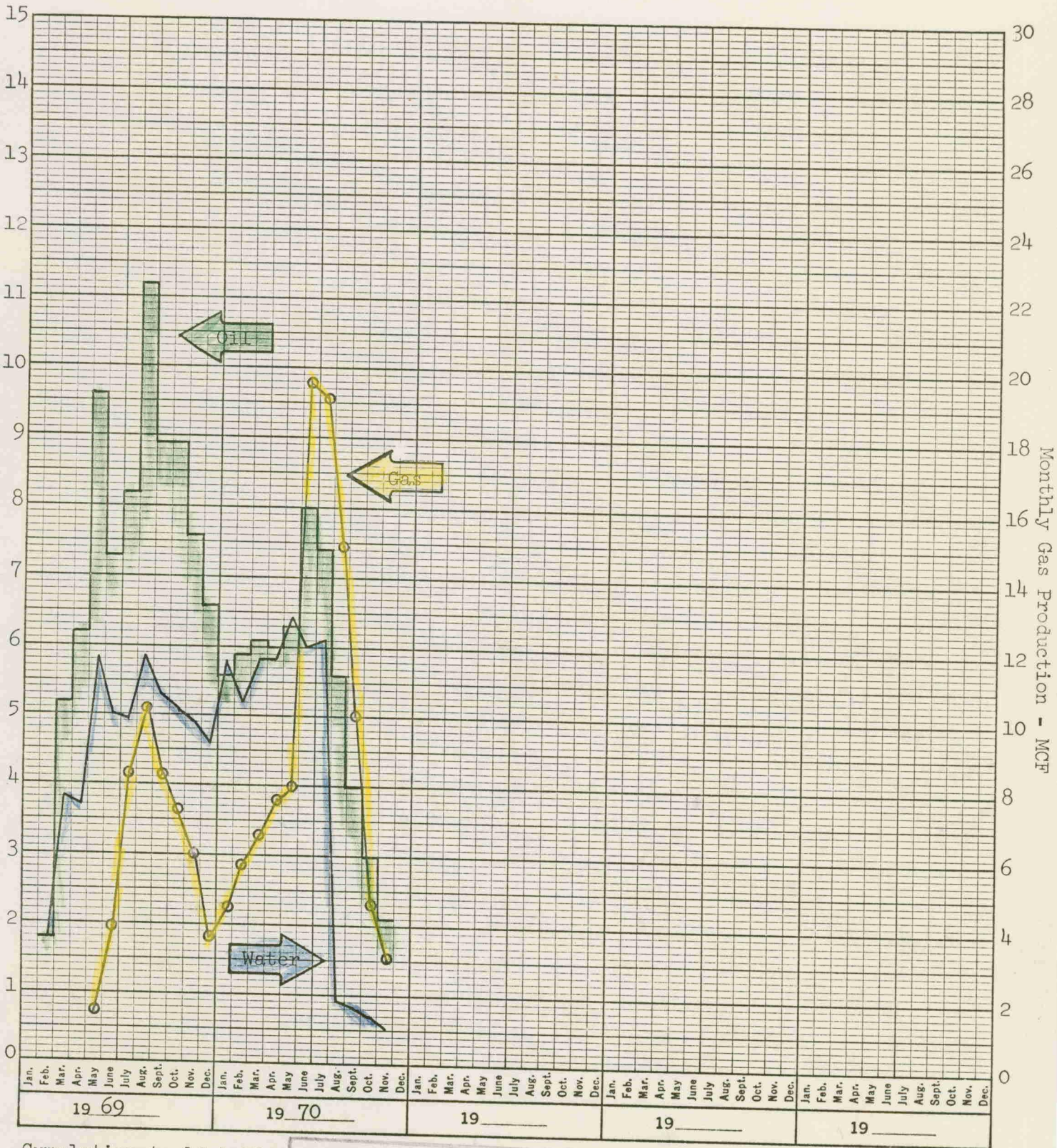
Cumulative to 12-1-70:
 Oil 187,112 Bbls
 Gas 210,539 MCF
 Water 153,628 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 5
 CASE NO. 4496
EXHIBIT 5
CASE NO. 4496

BTA Oil Producers
 687 Allyn Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

K&E 5 YEARS BY MONTHS
 46 3413
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.



Cumulative to 12-1-70:
 Oil 128,621 Bbls
 Gas 152,629 MCF
 Water 85,625 Bbls

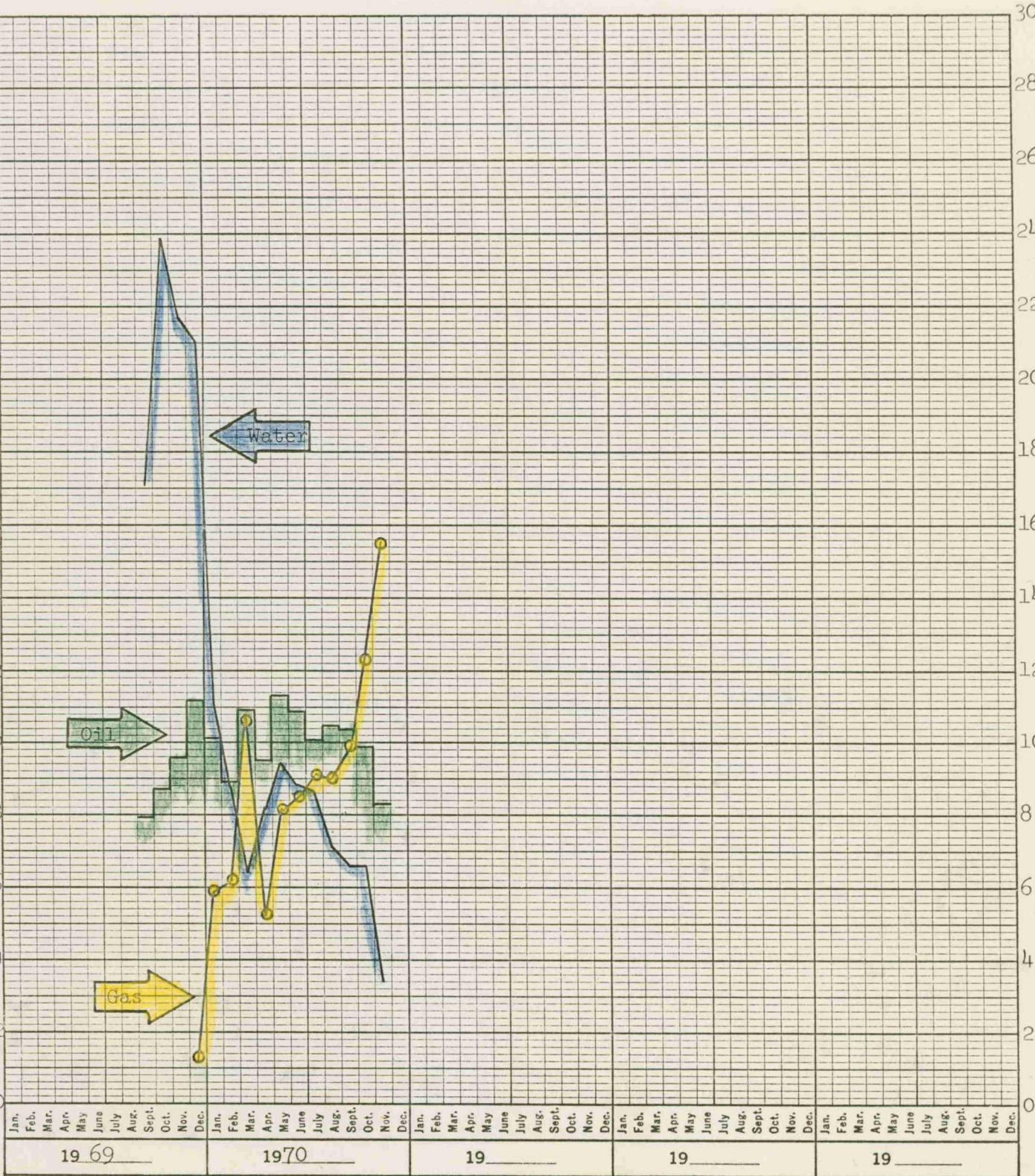
BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 6
 CASE NO. 4496

EXHIBIT 6
CASE NO. 4496

BTA Oil Producers
 691 Cash Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

Monthly Gas Production - MCF



5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.

46 3413
 MADE IN U.S.A.

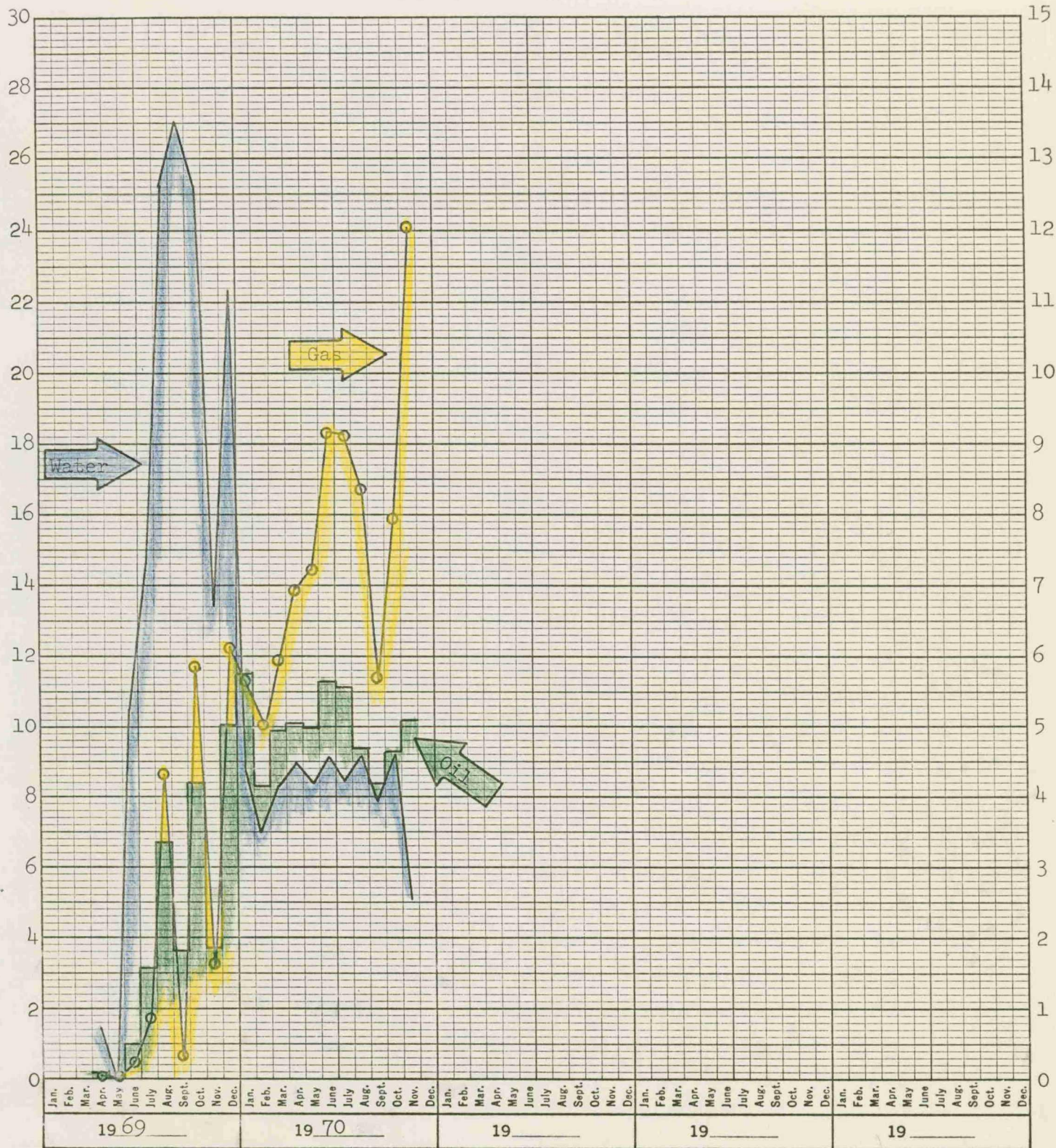
Cumulative to 12-1-70:
 Oil 148,181 Bbls
 Gas 102,033 MCF
 Water 168,785 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 7
 4496
EXHIBIT 7
CASE NO. 4496

BTA Oil Producers
 686 Oliver Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

Monthly Gas Production - MCF



KE 5 YEARS BY MONTHS 46 3413 MADE IN U.S.A. KEUFFEL & ESSER CO.

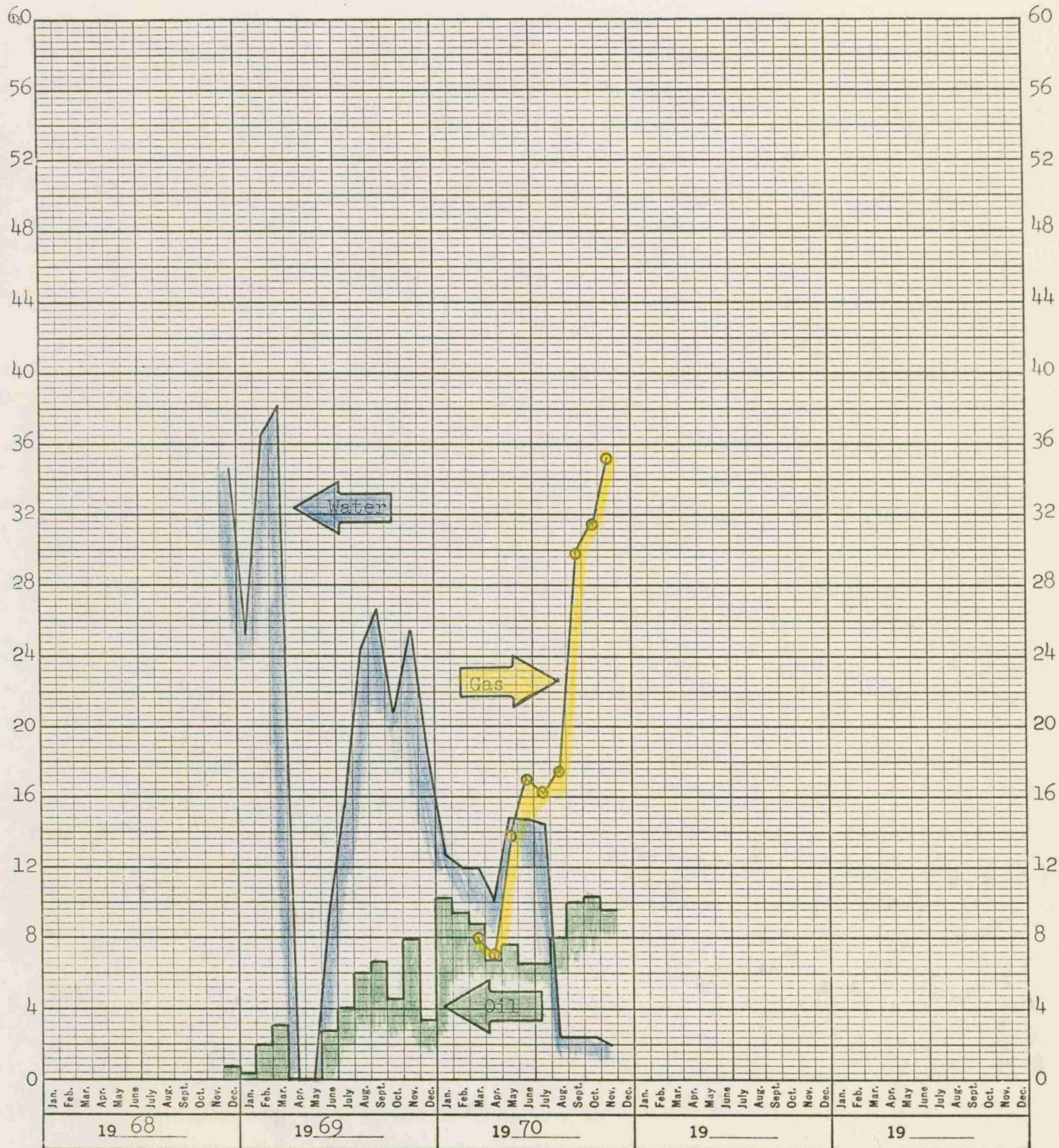
Cumulative to 12-1-70:
 Oil 146,600 Bbls
 Gas 102,587 MCF
 Water 230,206 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 8
 CASE NO. 4496

BTA Oil Producers
 686 KGS Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

46 3413
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.



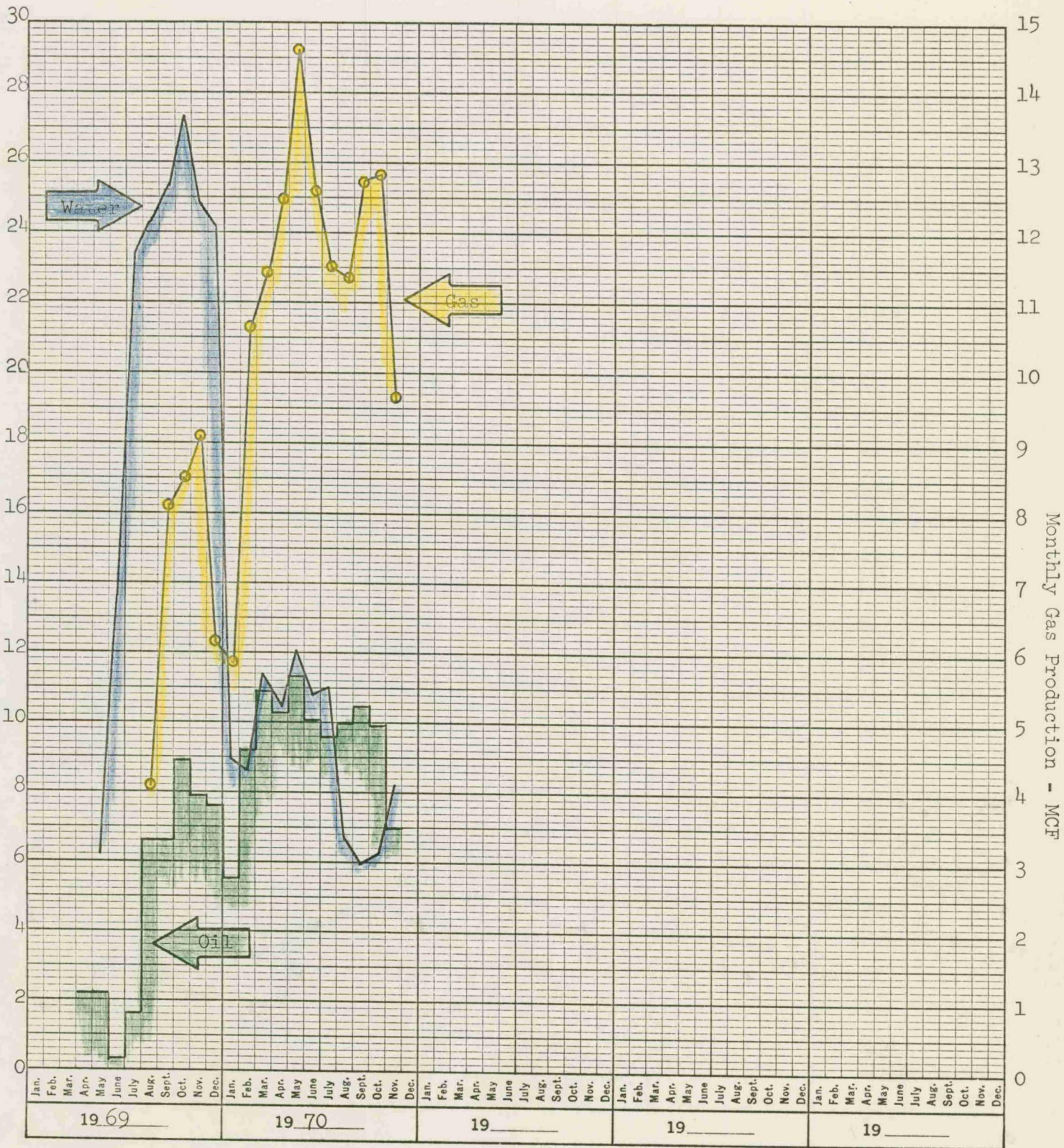
Cumulative to 12-1-70:
 Oil 136,151 Bbls
 Gas 175,412 MCF
 Water 375,379 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION EXHIBIT 9
 BTA EXHIBIT NO. 9 CASE NO. 4496
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Monthly Oil & Water Production
 1,000 Bbls

46 3413
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.

5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.



Cumulative to 12-1-70:
 Oil 148,798 Bbls
 Gas 161,581 MCF
 Water 275,873 Bbls

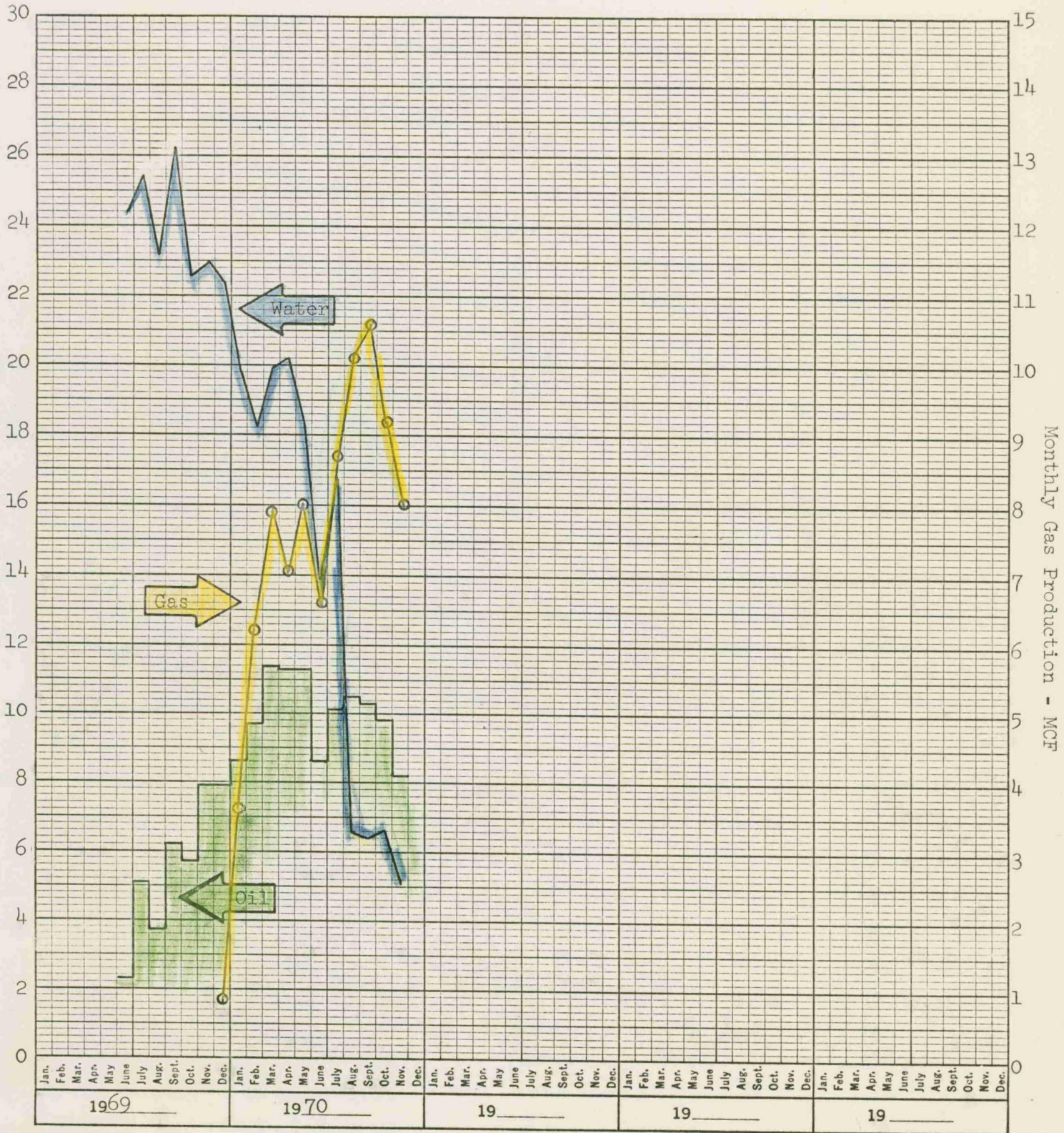
BEFORE EXAMINER NUTTER
 CIVIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 10
 4496

EXHIBIT 10
CASE NO. 4496

BTA Oil Producers
 687 Barnes Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

KE 5 YEARS BY MONTHS 46 3413
 X 150 DIVISIONS MADE IN U.S.A.
 KEUFFEL & ESSER CO.



Cumulative to 12-1-70:
 Oil 148,508 Bbls
 Gas 86,719 MCF
 Water 319,316 Bbls

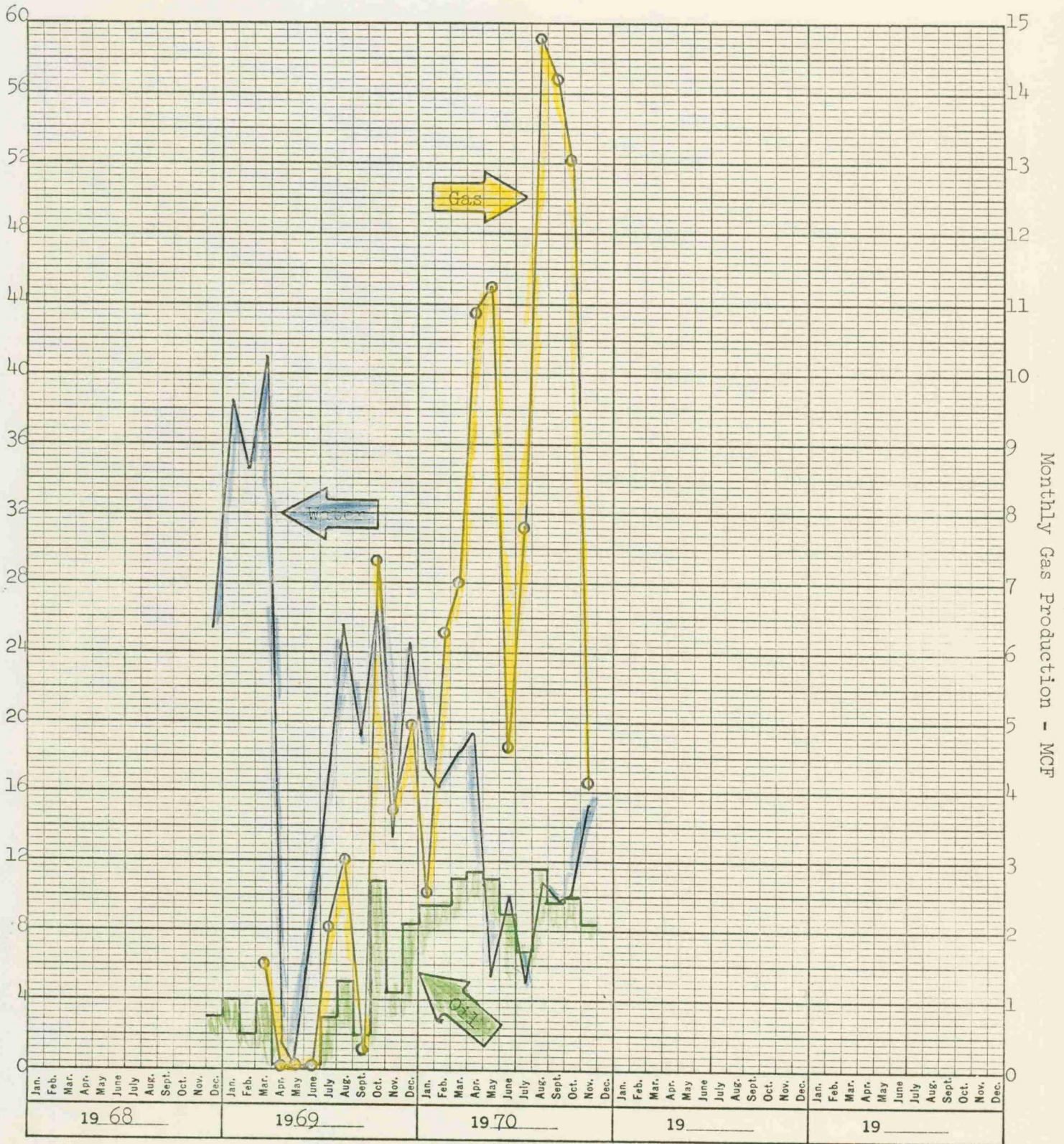
BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 11
 CASE NO. 4496

EXHIBIT 11
CASE NO. 4496

BTA Oil Producers
 687 Battles Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

KE 5 YEARS BY MONTHS
 X 150 DIVISIONS
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.



Cumulative to 12-1-70:
 Oil 148,511 Bbls
 Gas 119,376 MCF
 Water 339,749 Bbls

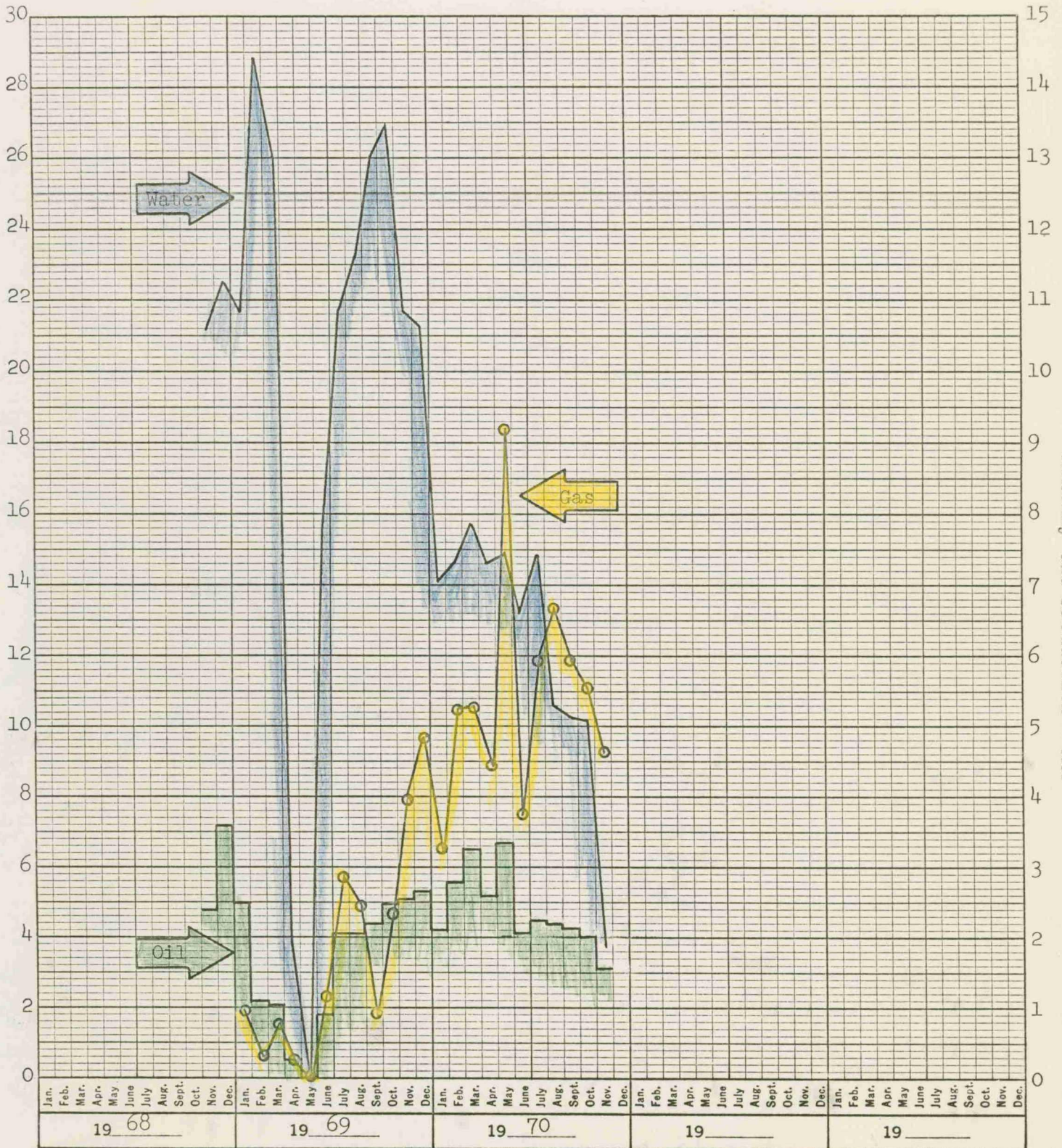
BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
EXHIBIT 12
 BTA EXHIBIT NO. 12 **CASE NO. 4496**
 CASE NO. 4496

BTA Oil Producers
 687 Trice Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

KE 5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.

Monthly Gas Production - MCF



Cumulative to 12-1-70:
 Oil 104,299 Bbls
 Gas 80,895 MCF
 Water 417,220 Bbls

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

BTA EXHIBIT NO. 13

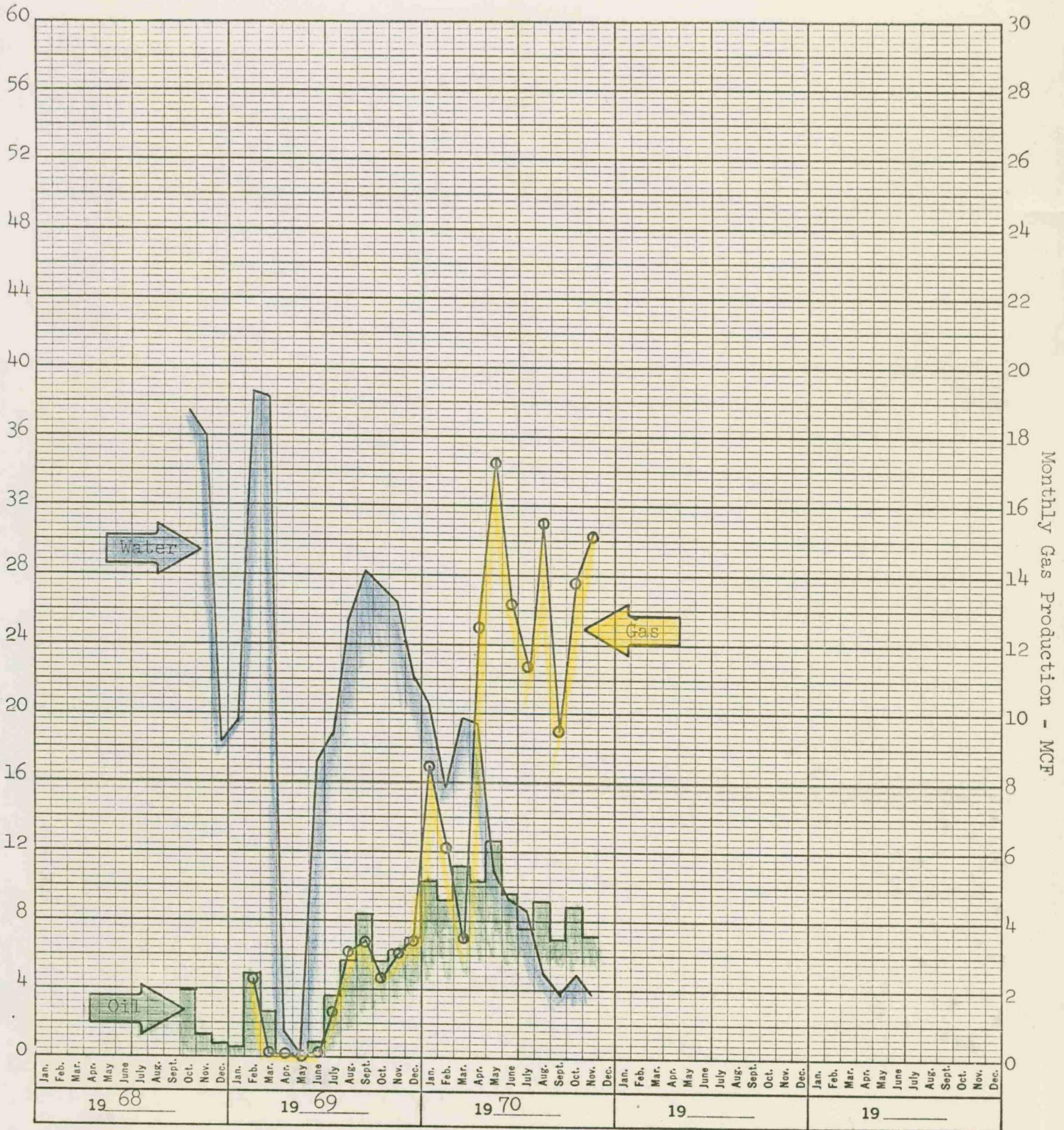
CASE NO. 4496

EXHIBIT 13
 CASE NO. 4496

BTA Oil Producers
 686 Walker Lease
 Vada Pool
 1 Well

Monthly Oil & Water Production
 1,000 Bbls

5 YEARS BY MONTHS
 X 150 DIVISIONS
 KEUFFEL & ESSER CO.



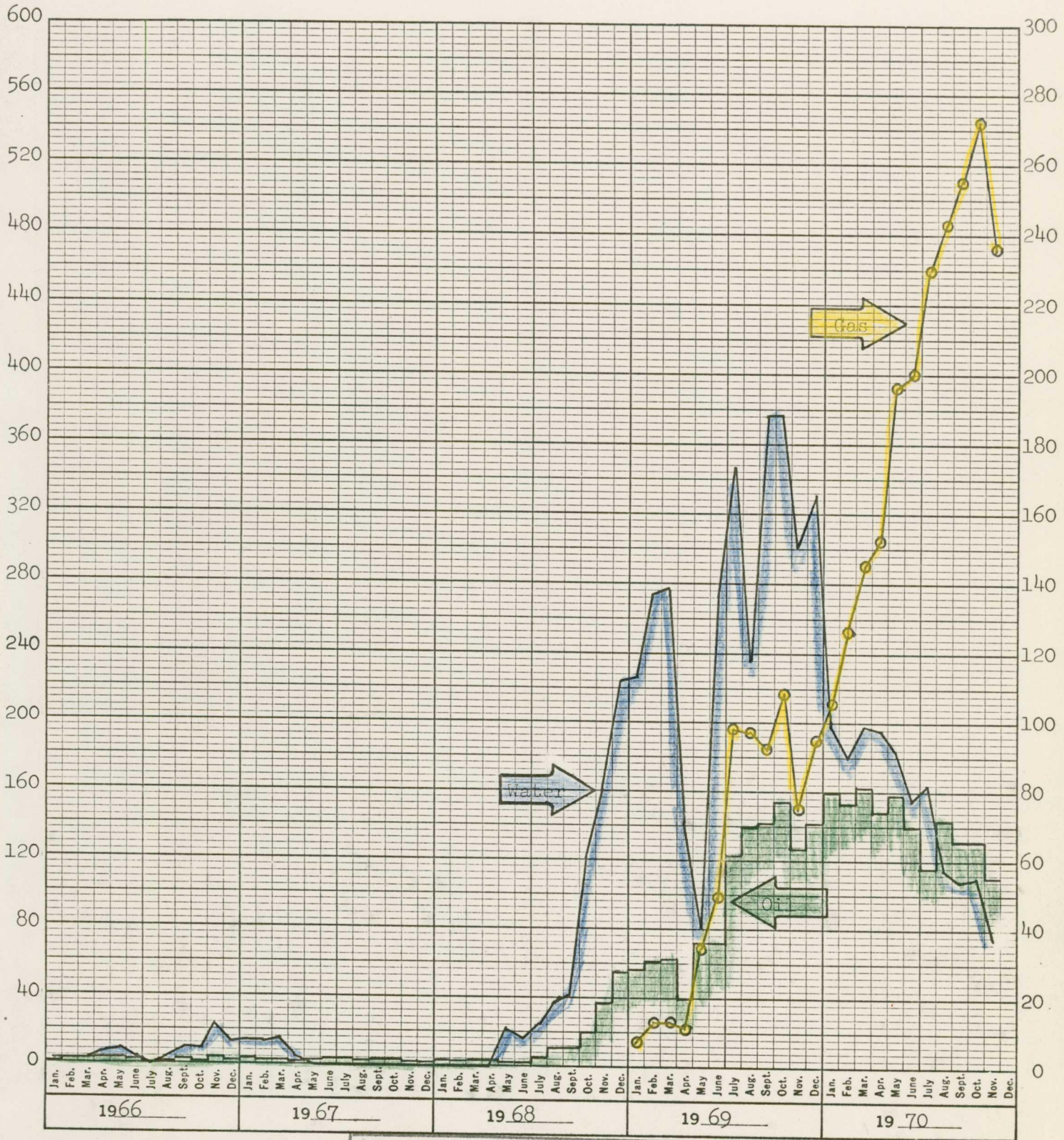
Cumulative to 12-1-70:
 Oil 155,024 Bbls
 Gas 145,181 MCF
 Water 476,019 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 14
 CASE NO. 4496
EXHIBIT 14
CASE NO. 4496

BTA Oil Producers
 Project Area Performance
 Vada Pool
 Total 20 Wells

Monthly Oil & Water Production
 1,000 Bbls

KE 5 YEARS BY MONTHS 46 3413
 X 150 DIVISIONS MADE IN U.S.A.
 KEUFFEL & ESSER CO.

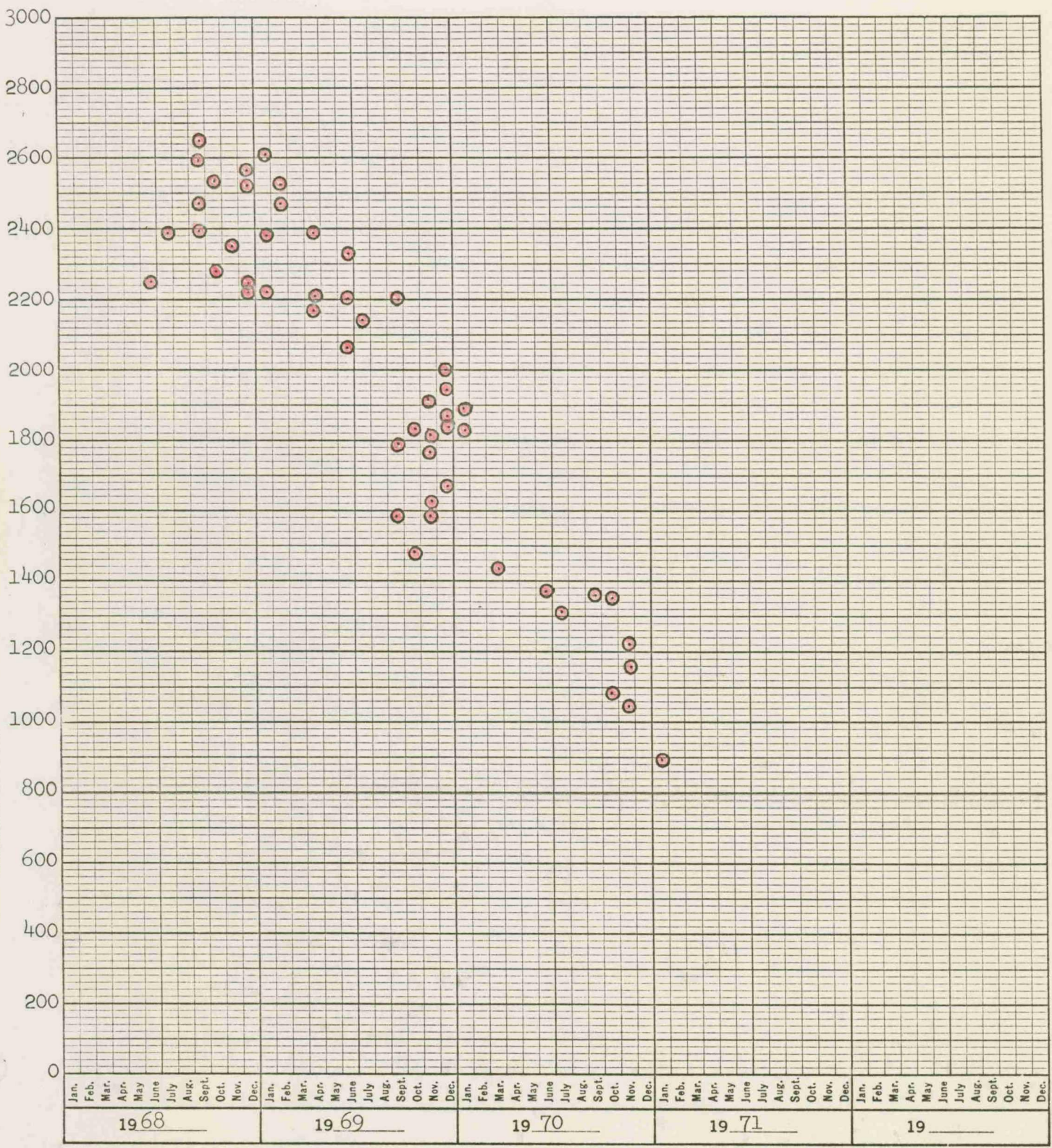


Cumulative to 12-1-70:
 Oil 3,046,316 Bbls
 Gas 2,875,311 MCF
 Water 5,518,965 Bbls

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 BTA EXHIBIT NO. 15
 CASE NO. 4496

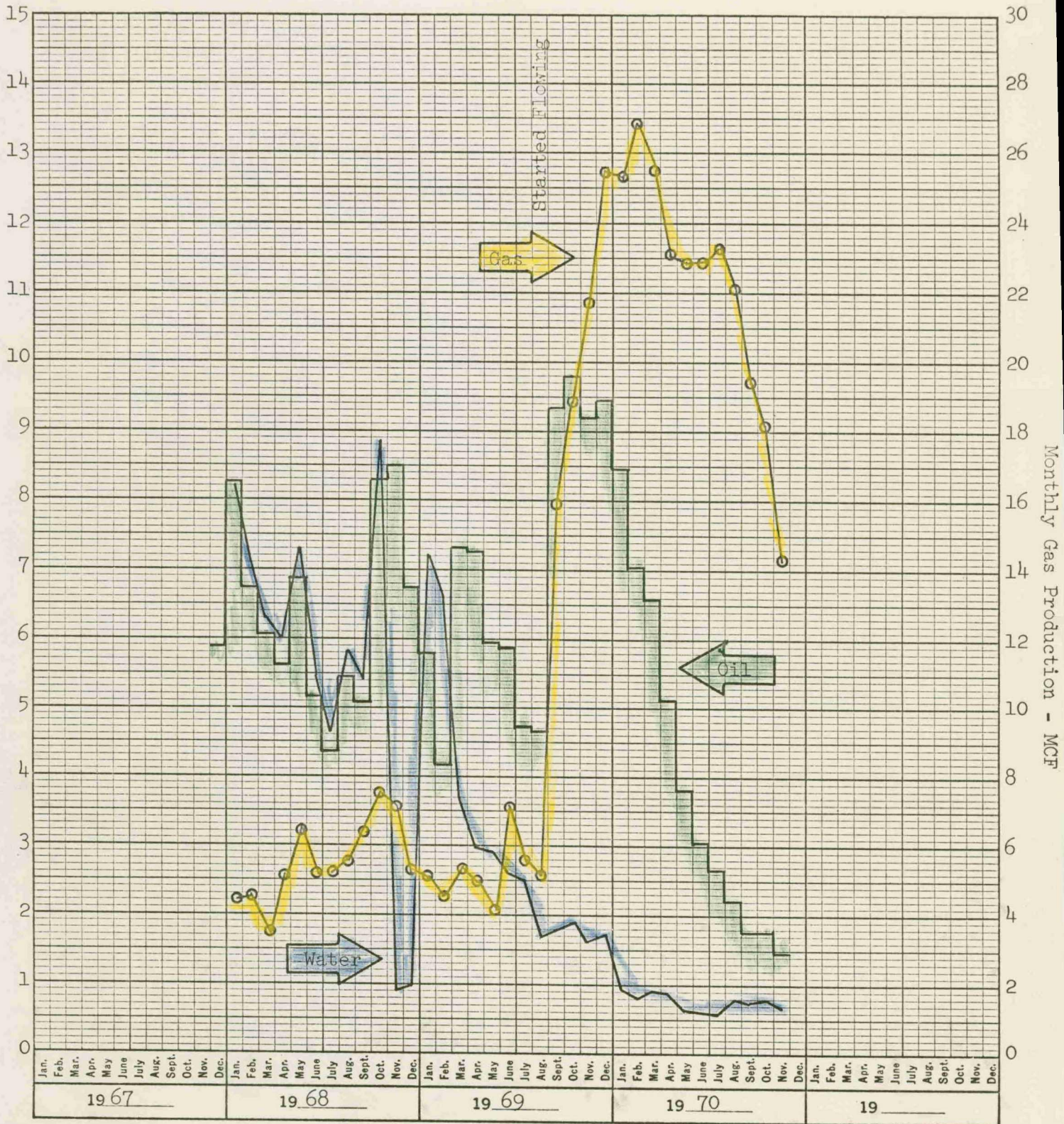
EXHIBIT 15
CASE NO. 4496

46 3413
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.
 5 YEARS BY MONTHS
 X 150 DIVISIONS
 Bottom Hole Pressure - PSIG - (-5750)



BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
BTA EXHIBIT NO. 16
 CASE NO. 4496

EXHIBIT 16
CASE NO. 4496



Cumulative to 12-1-70:
Oil 210,734 Bbls
Gas 434,034 MCF
Water 112,521 Bbls

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
BTA EXHIBIT NO. 17
CASE NO. 4496

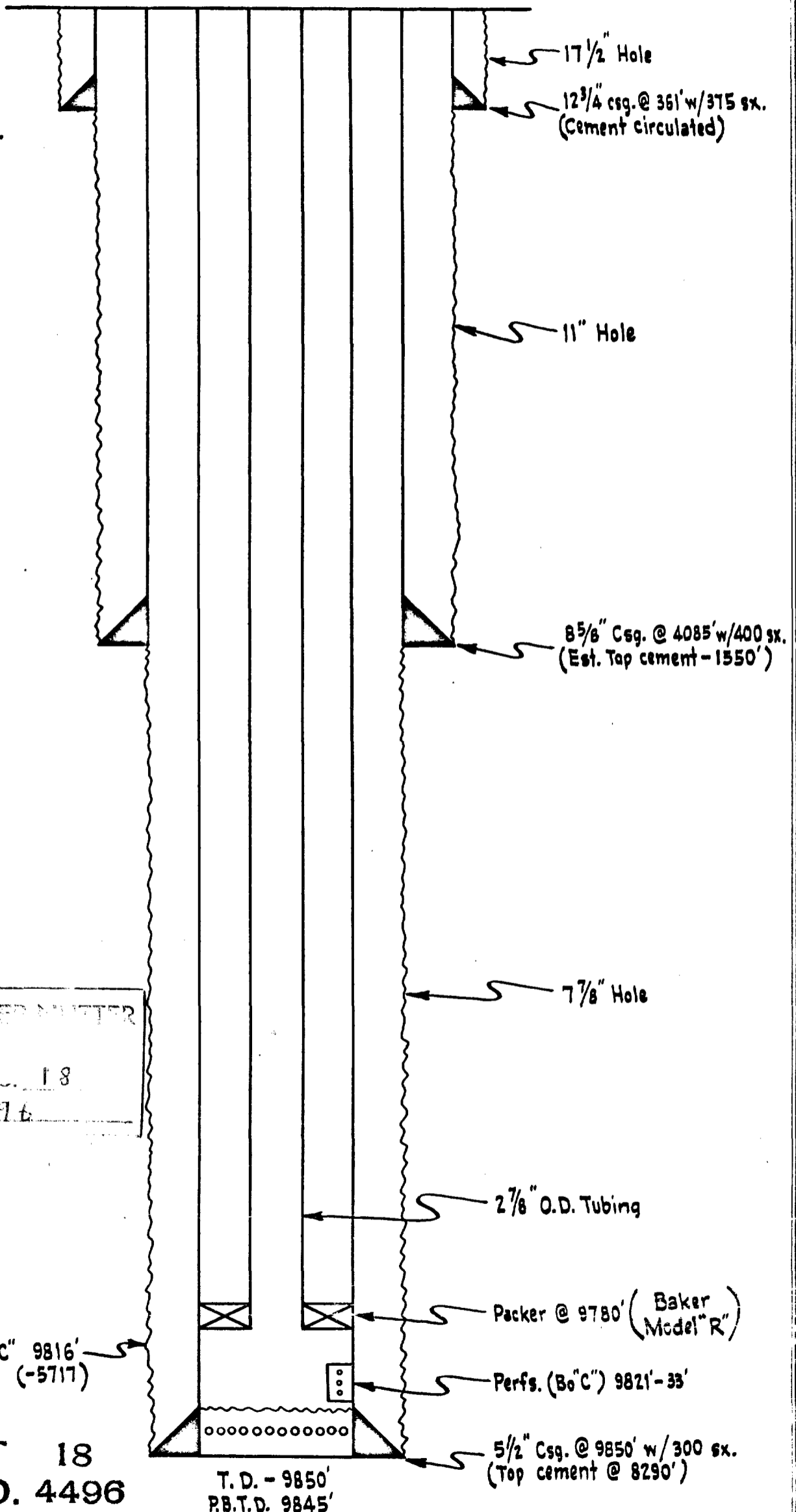
EXHIBIT 17
CASE NO. 4496

DIAGRAMMATIC SKETCH FOR PROPOSED INJECTION WELL

BTA OIL PRODUCERS
685 LTD. BOND, N° 5

1980' FSL & 660' FWL OF SECTION 4, T-9-S, R-36-E
LEA COUNTY, NEW MEXICO

Elev. 4099' K.B.
Spudded: 3-2-69
Completed: 4-16-69



BEFORE EXAMINER'S OFFICE
 OIL CONSERVATION
 BTA EXHIBIT NO. 18
 CASE NO. 4496

EXHIBIT 18
CASE NO. 4496

BTA OIL PRODUCERS
PILOT PRESSURE MAINTENANCE PROJECT
VADA PENN POOL

SUMMARY OF RESERVOIR RECOVERIES

Pore Volume in 3,680 Acre Pilot Area	19,860,500 Bbls
Reservoir Bbls Oil in Place - Res BO	11,916,300 Bbls
Reservoir Bbls Water in Place - Res BW	7,944,200 Bbls
Stock Tank Bbls Oil in Place - STBO	6,620,200 Bbls
Stock Tank Bbls Water in Place - STBW	7,919,600 Bbls
Stock Tank Recoveries to 12-1-70 - STBO	3,046,300 Bbls
Stock Tank Recoveries per Well to 12-1-70 - STBO	152,300 Bbls
Stock Tank Recoveries to 12-1-70 - STBW	5,518,960 Bbls
Stock Tank Recoveries per Well to 12-1-70 - STBW	275,900 Bbls
Percentage of Oil Recovered at 12-1-70	46%
Percentage of Water Recovered at 12-1-70	69%
Estimated Oil Recoverable by Sec Rec - STBO	1,389,850 Bbls
Estimated Oil Recoverable by Sec Rec - STBO	70,000 Bbls Per Well

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
B T A EXHIBIT NO. <u>20</u>
Case No. <u>4496</u>

EXHIBIT 20
CASE NO. 4496

RECEIVED JAN 31 1971



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 1157
Hobbs, New Mexico 88240

January 25, 1971

BTA Oil Producers
104 South Pecos
Midland, Texas 79701

Attention: Mr. Jerry I. Moritz

Gentlemen:

Your letter of January 19 requests approval to institute a pilot pressure maintenance project in the Vada Pennsylvanian pool by the injection of water into the Bough "C" formation in well No. 5 Bond 685 Ltd. in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 9 S., R. 36 E., Lea County, New Mexico, lease New Mexico 0449694-C.

The plan you propose for a pilot pressure maintenance project, by injection of water into the Bough "C" formation, lease New Mexico 0449694-C, is satisfactory to this office and is hereby approved.

Appropriate notices to convert the existing well to water injection should be submitted for approval prior to commencing the work. Duplicate copies of a monthly progress report should be submitted showing the volume of water injected and average pressures for each injection well and monthly oil and water production for the producing wells in the project area.

Approval of this project by the New Mexico Oil Conservation Commission pursuant to Rule 701 is also required.

Sincerely yours,

Arthur R. Brown
District Engineer

BEFORE EXAMINER NUTTER
CONSERVATION COMMISSION
BTA PROJECT NO. 21
4496

EXHIBIT 21
CASE NO. 4496