

ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0100



May 26, 1981

Mr. Joe D. Ramey
Oil Conservation Division
New Mexico Department of Energy and Minerals
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Downhole Commingling Application
Roy Barton No. 2
Section 23, T-21-S, R-37-E

Dear Sir:

ARCO Oil and Gas Company requests administrative approval under the provisions of Rule 303-C to commingle downhole production from the Blinebry and Drinkard zones of the Roy Barton No. 2 located in Section 23, T-21-S, R-37-E, of Lea County, New Mexico.

Production on this lease is presently being commingled in the surface facilities (Order #PC-219) with no evidence of fluid incompatibility. Since the crudes are commingled at the battery before sale, no change in value will result from commingling the production downhole. Ownership of both zones is common and correlative rights will not be violated.

This well produces from a maximum depth of 6595' and is therefore allowed a commingled production rate up to 40 BOPD. The water production limit is 40 BWPD from each zone.

The Roy Barton No. 2 produces 8 BOPD + 19 BOPD + 42 MCFGPD under artificial lift from the Blinebry zone. Estimated bottom hole pressure is 556 psia. Drinkard production is by natural flow. Presently this zone produces 19 MCFGPD from a measured bottom hole pressure of 940 psia.

Additional information, such as decline curves, Form C-116-A, List of Offset Operators, and lease and well information is included as required by Rule 303-C. Offset operators are being notified by registered mail with a copy of this application.

Downhole Commingling Application

Page 2

Thank you for your consideration.

Very truly yours,

Susan M. Tidwell

Susan M. Tidwell
Operations Engineer

SMT:fd

Attachments

cc: NMOCC Area Supervisor
P. O. Box 1980
Hobbs, New Mexico 88240

Offset Operators

U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C.

JUN 11 1981

RECEIVED

ROY BARTON #2

1. Operator: ARCO Oil and Gas Company
P. O. Box 1610
Midland, Texas 79702
2. Lease, Well, and Location:

Roy Barton #2
660' FNL & 1980' FEL
Section 23-21S-37E
Lea County, New Mexico
3. Producing Zones:

Blinbry-pump
Drinkard-natural flow
Bottom-most perforation at 6595'
4. Commission Order No. Authorizing Dual Completion:

DC-137
5. Decline Curves: attached
6. Fluid Incompatibility:

Production from these zones is being commingled in the surface facilities of the S. J. Sarkey's Lease. No evidence of fluid incompatibility has been found.
(PC-219)
7. Value of Commingled Fluids:

As production from both zones is currently priced as heavy crude, downhole commingling will not affect the value of the oil.
8. Current Production: attached C-116.
9. Bottom Hole Pressure:

Blinbry - 556 psi
Drinkard - 540 psi
10. All Offset Operators are being notified by copy of this application.

OFFSET OPERATORS

ACOMA OIL CORPORATION
812 CONTINENTAL LIFE BLDG.
FORT WORTH, TEXAS 76102

GETTY OIL CORP.
BOX 1231
MIDLAND, TEXAS 79702

GULF ENERGY & MINERALS COMPANY
BOX 1150
MIDLAND, TEXAS 79702

MOBIL OIL CORPORATION
BOX 633
MIDLAND, TEXAS 79702

SHELL OIL COMPANY
P. O. BOX 1509
MIDLAND, TEXAS 79702

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator ARCO Oil and Gas Company Pool Lea
 Address Division of Atlantic Richfield Company Blinebry
P. O. Box 1710, Hobbs, New Mexico 88240

LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL		
		U	S	T					R	WATER BBL'S.	GRAV. OIL		OIL BBL'S.	GAS M.C.F.
Roy Barton	2-	B	23	21S	37E	5/10/81	P	8	24	19	392	8	42	5250
Above is a 24 hr. productivity test preparatory to downhole commingling with the Drinkard Zone.														

TYPE OF TEST - (X) Scheduled Special

No well will be assigned an allowable greater than the amount of oil produced on the official test.
 During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take any stage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
 Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.
 Report casing pressure in lieu of tubing pressure for any well producing through casing.
 Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Susan M. Tidwell
 (Signature)
 Operations Engineer
 (Title)
 May 26, 1981
 (Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator ARCO Oil and Gas Company		County Lea												
Address Division of Atlantic Richfield Company		Town Drinkard												
P. O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X) <input type="checkbox"/> Scheduled <input type="checkbox"/> Completion <input checked="" type="checkbox"/> Special <input checked="" type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./EBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Roy Barton	2-B	23	21S	37E	5-09-81	S 21/64"	50	0	24	0	39.2	0	19	-0-
Above is a 24 hr. productivity test preparatory to downhole commingling with the Blinebry Zone.														

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Susan M. Tidwell
(Signature)

Operations Engineer
(Title)

May 26, 1981

(Date)

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10,000

ROY BARTON NO. 2
BLINEBRY OIL ZONE
LEA COUNTY, N. M.
GAS PRODUCTION

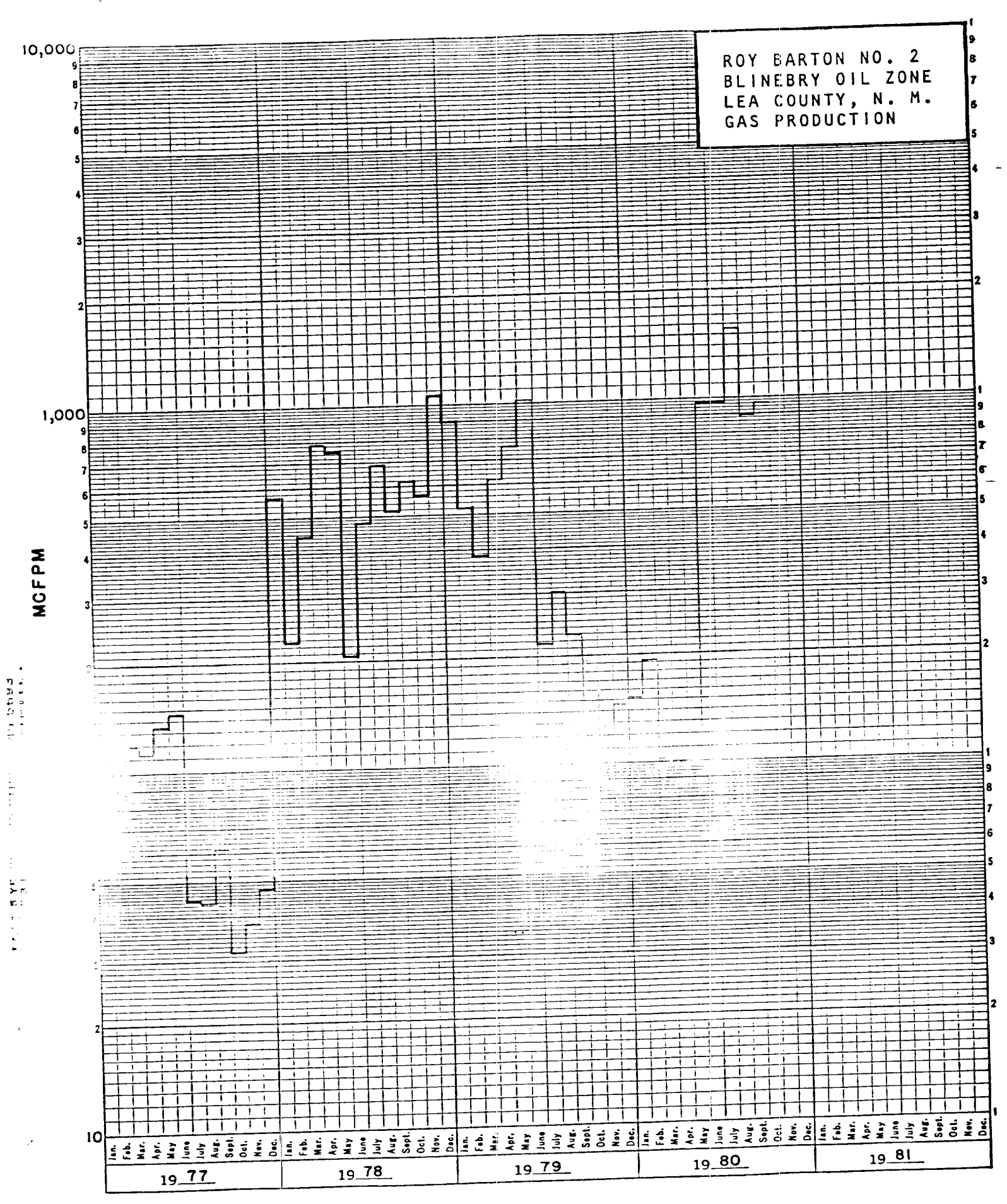
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MCFPM

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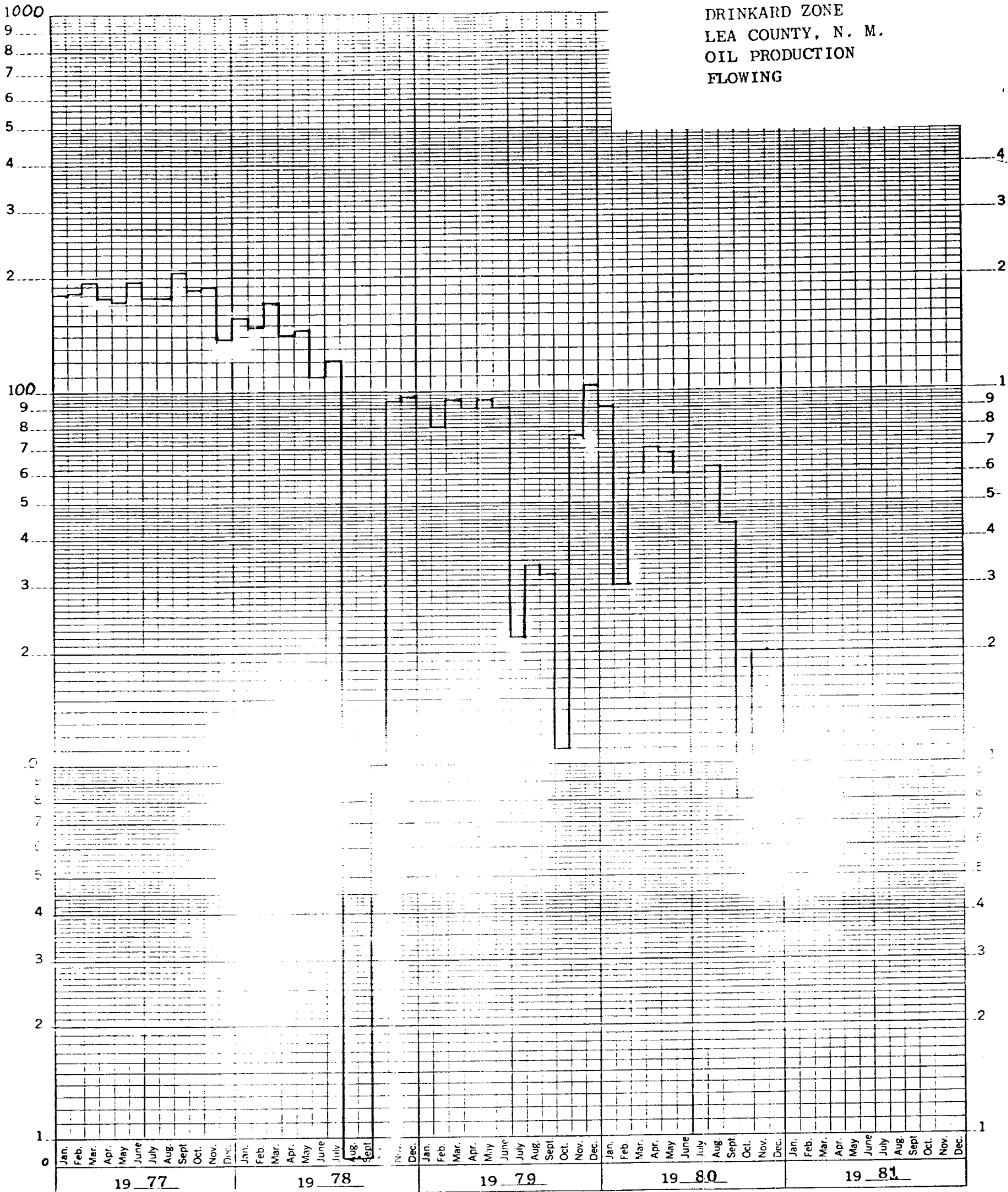
ROY BARTON NO. 2
BLINEBRY OIL ZONE
LEA COUNTY, N. M.
GAS PRODUCTION

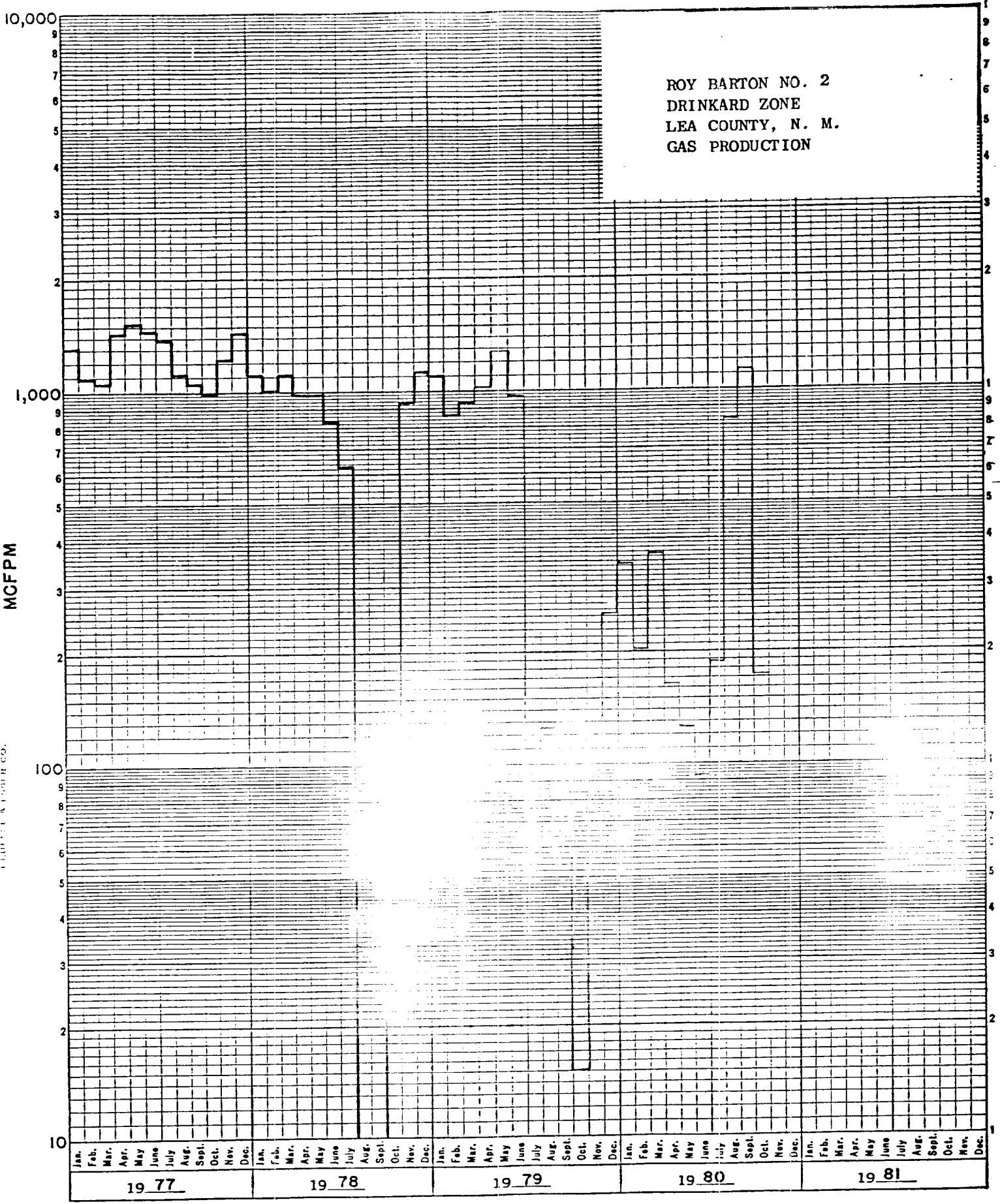


ROY BARTON NO. 2
 DRINKARD ZONE
 LEA COUNTY, N. M.
 OIL PRODUCTION
 FLOWING

46 6690

5 MONTHS PER MONTH - 100 CYCLES



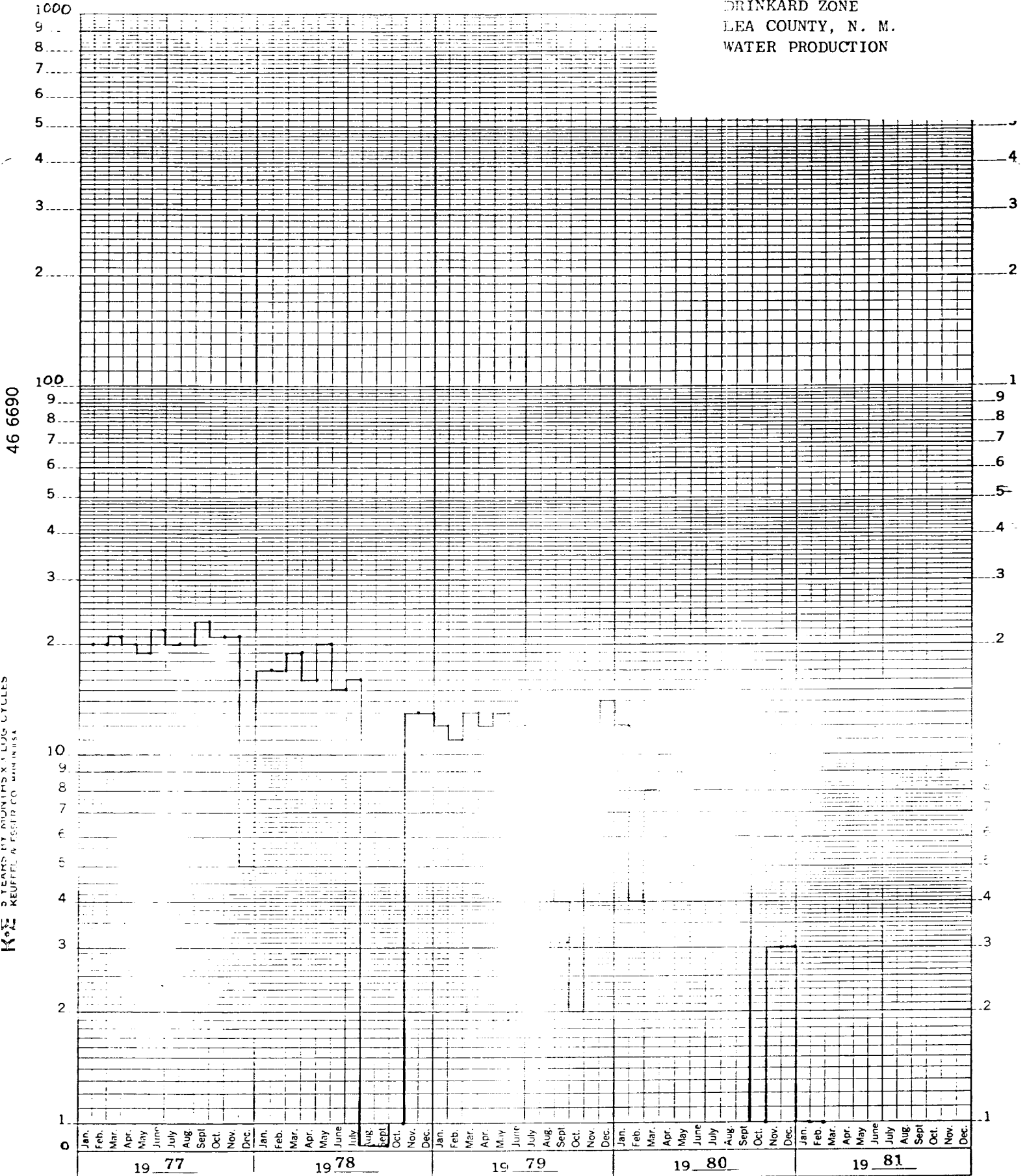


MCFPM

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ROY BARTON NO. 2
 DRINKARD ZONE
 LEA COUNTY, N. M.
 WATER PRODUCTION



46 6690

KEUFFEL & ESSER CO. MINN. U.S.A.