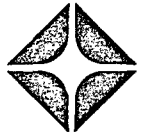


ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0100

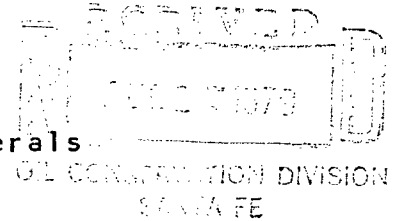
DHC - 291

Due - 9/6/79



August 9, 1979

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



RE: Downhole Commingling Application
S. J. Sarkeys #2
S. J. Sarkeys #3
Roy Barton #4 *Unit G*
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 downhole commingle production from the Blinebry and Tubb-Drinkard zones of the S. J. Sarkeys #2 and #3, and Roy Barton #4. These wells are located in Section 23, T-21-S, R-37-E, of Lea County, New Mexico.

Production on the Sarkeys Lease is presently being commingled in the surface facilities (Order #219) with no evidence of fluid incompatibility. Production from both zones of all three wells is priced as sour crude, therefore, downhole commingling will not affect the value of the oil. Ownership of both zones is common.

Each well produces from a maximum depth near 6600' and is therefore allowed a commingled production rate up to 40 BOPD. The water production limit for each well is 40 BWPD from each zone.

Attached is a Table summarizing production, water and bottom-hole pressures for each well. Each of the wells under consideration produces from both zones by natural flow.

Additional information, such as decline curves, Form C-116, 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.

Page 2
Joe D. Ramey

Thank you for your consideration.

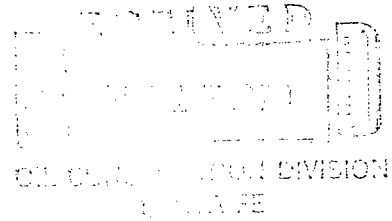
Very truly yours,



J. L. Tweed

KG:ad

cc: Offset Operators
New Mexico Oil Conservation Area Supervisor
P. O. Box 1980
Hobbs, New Mexico 88240



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

ROY BARTON #4

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

2. Lease, Well, and Location:

Roy Barton #4
1750' FNL & 1980' FEL *unit G*
Section 23-21S-37E
Lea County, New Mexico

3. Producing Zones:

Blinbry by natural flow.
Tubb-Drinkard by natural flow
Bottom-most perforation at 6575'.

4. Commission Order No. Authorizing Dual Completion:

MC-1641 ✓

5. Decline Curves: attached

6. Fluid Incompatibility:

Production from these zones is being
commingled in the surface facilities of
the S.J.Sarkeys' 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 sour crude, downhole commingling
will not affect the value of the oil.

8. Current Production: See attached C-116.

9. All Offset Operators are being notified by copy of
this application.

DAILY PRODUCTION AND BOTTOM HOLE PRESSURE

JULY, 1979

<u>WELL</u>	<u>OIL PRODUCTION</u>		<u>WATER PRODUCTION</u>		<u>BOTTOM HOLE PRESSURE</u>	
	<u>Blinebry</u>	<u>Tubb-Drinkard</u>	<u>Blinebry</u>	<u>Drinkard</u>	<u>Blinebry</u>	<u>Drinkard</u>
S.J.Sarkeys #2	12 bbl.	2 bbl.	0 bbl.	0 bbl.	486 psig	404 psig
S.J.Sarkeys #3	8 bbl	2 bbl.	2 bbl.	0 bbl.	480 psig	847 psig
Roy Barton #4	1 bbl	3 bbl.	1 bbl.	1 bbl.	544 psig	689 psig

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-113
Revised 1-1-65

Operator ARCO OIL & GAS COMPANY		Pool		Blinebry Oil & Gas		County		Lea							
Division of Atlantic Richfield Company		Address		P.O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>							
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BB	
		U	S	T	R						WATER BBL'S	GRAV. OIL	OIL BBL'S		GAS M.C.F.
Roy Barton	4	G	23	21S	37E	7-16-79	F 64/64"	100	0	24	0	-	0	213	-
Above is a 24 hr. productivity test preparatory to commingling down hole with the Drinkard zone.															

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 advantage of this 25 percent tolerance in order that well can be assigned increased allowable 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.
Well 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.

[Signature]
(Signature)
Engr. Tech. Spec.
(Title)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator ARCO OIL & GAS COMPANY Pool Drinkard County Lea
Division of Atlantic Richfield Company
Address P.O. Box 1710, Hobbs, New Mexico 88240

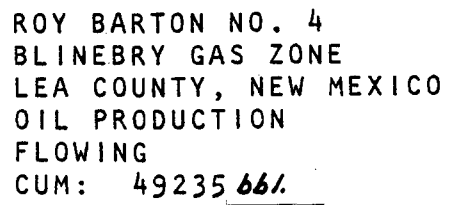
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)		SCHEDULED	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT/BSL			
		U	S	T	R		CHOKE SIZE	TBG. PRESS.				WATER BSL.	CRUD. OIL BSL.	GAS M.C.F.				
Roy Barton	4	G	23	21S	37E	7-15-79	F			21/64"	50	6	24	1	38.6	3	63	21,000
Above is a 24 hr. productivity test preparatory to commingling down hole with the Blinberry Oil & Gas zone.																		

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 advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
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Report casing pressure in lieu of tubing pressure for any well producing through casing.
Well 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.

Ed T. Shackelford
(Signature)
Engng. Tech Spec.
(Title)

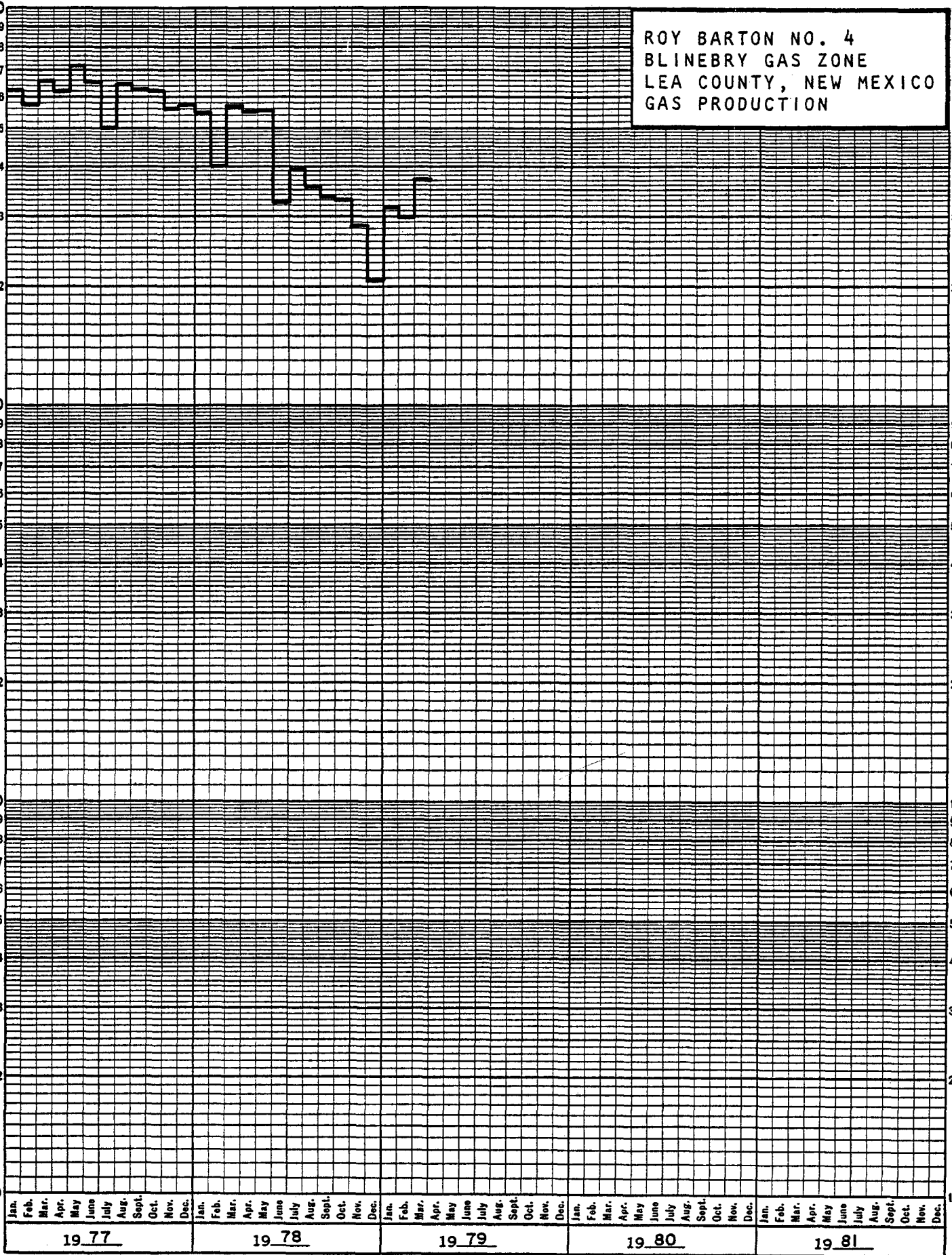
46 6693
MADE IN U.S.A. •



MCFPM

10,000,

ROY BARTON NO. 4
BLINEBRY GAS ZONE
LEA COUNTY, NEW MEXICO
GAS PRODUCTION



K+E 5 YEARS BY MONTHS 46 6693
X 3 LOG CYCLES MADE IN U. S. A. •
KEUFFEL & ESSER CO.

10,000

1,000

BOPM

ROY BARTON NO. 4
DRINKARD ZONE
LEA COUNTY, NEW MEXICO
OIL PRODUCTION
FLOWING
CUM: 74070 bbl



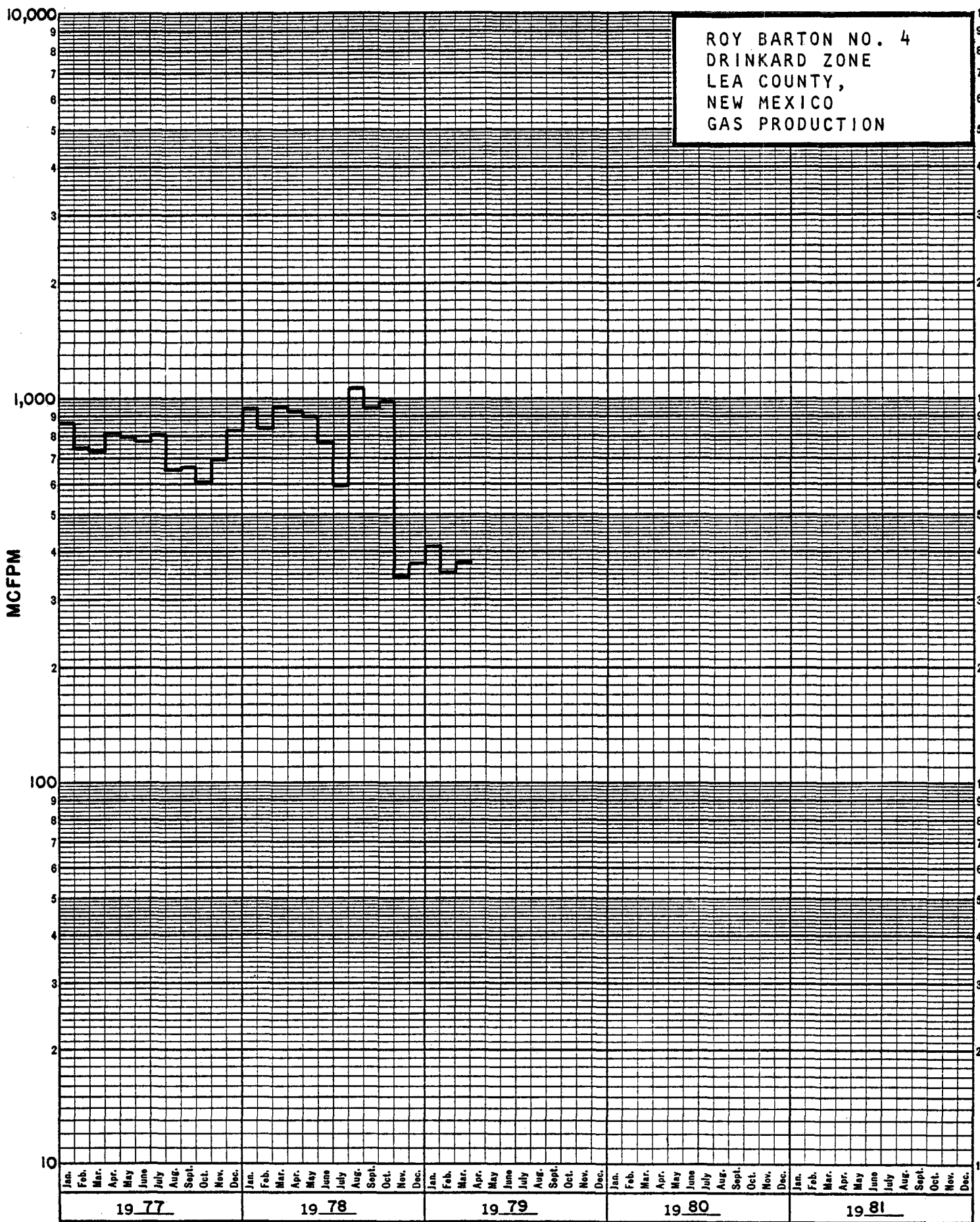
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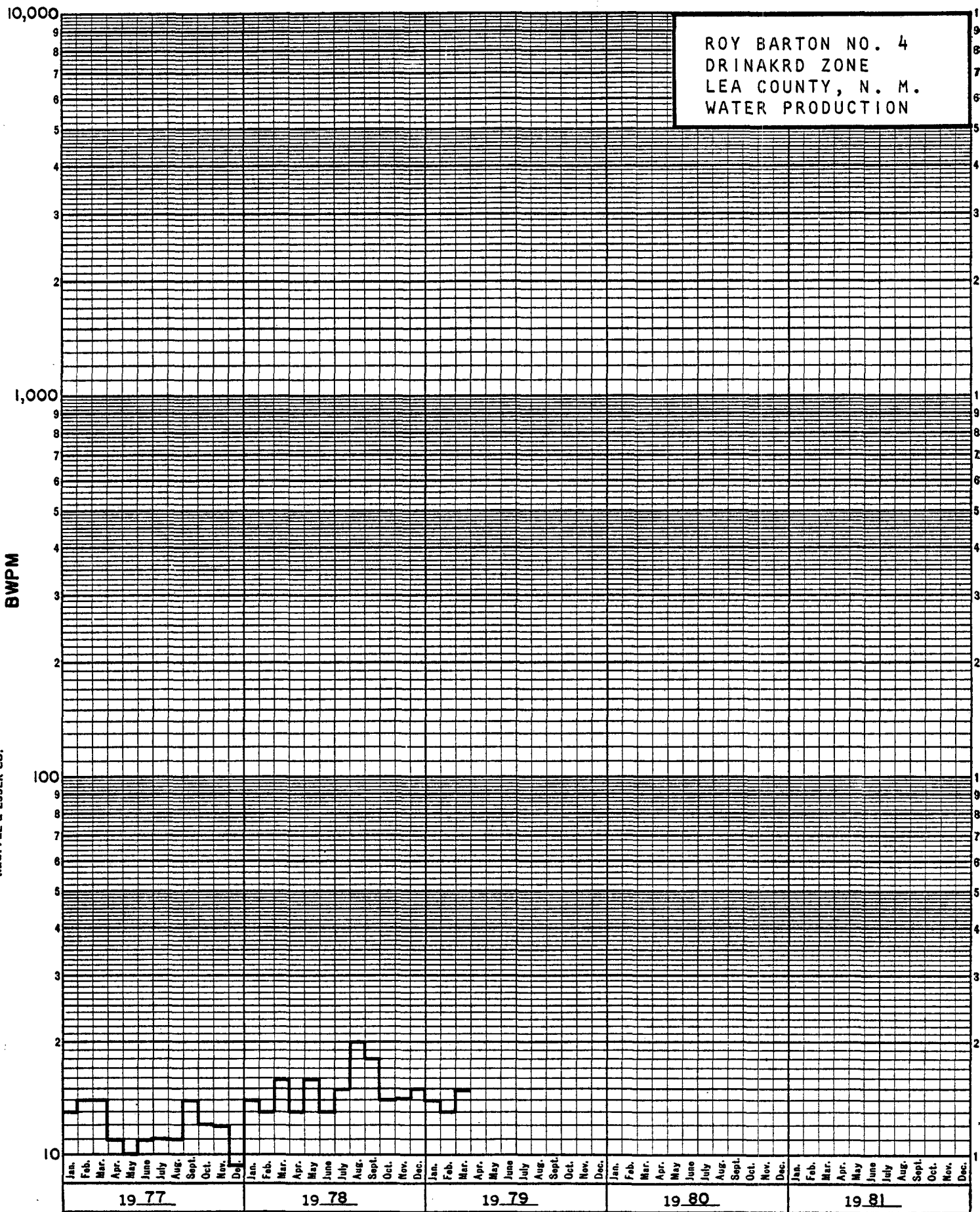
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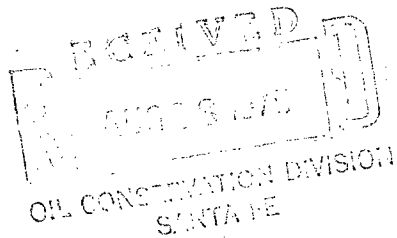


OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE August 17, 1979

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



Gentlemen:

I have examined the application dated _____
for the ARCO Oil & Gas Co. S. J. Sarkeys #2-0 & #3-I 23-21-37
Roy Barton #4-G 23-21-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,