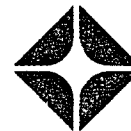


ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0100

DHC - 290

DHC - 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

*Blinbry
Drinkard*

RE: Downhole Commingling Application
S. J. Sarkeys #2
S. J. Sarkeys #3 *Unit I*
Roy Barton #4
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 Blinbry 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,

A handwritten signature in cursive script, appearing to read "J L Tweed".

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

S. J. SARKEYS #3

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

2. Lease, Well, and Location:

S. J. Sarkeys #3
2310' FSL & 330' FEL *unit I*
Section 23-21S-37E
Lea County, New Mexico

3. Producing Zones:

Blinebry by natural flow
Tubb-Drinkard by natural flow
Bottom-most perforation at 6636'

4. Commission Order No. Authorizing Dual Completion:

MC-1477-A ✓

5. Decline Curves: attached

6. Fluid Incompatibility:

Production from these zones is being
commingled in the surface facilities.
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.

S. J. SARKEYS #3

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

2. Lease, Well, and Location:

S. J. Sarkeys #3
2310' FSL & 330' FEL
Section 23-21S-37E
Lea County, New Mexico

3. Producing Zones:

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Tubb-Drinkard by natural flow
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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

WELL	OIL PRODUCTION		WATER PRODUCTION		BOTTOM HOLE PRESSURE	
	Tubb-Drinkard		Blinebry		Blinebry	
	Blinebry	Drinkard	Blinebry	Drinkard	Blinebry	Drinkard
S.J.Sarkeys #2	12 bbl.	2 bbl.	0 bbl.	0 bbl.	486 psig	404 psig
S.J.Sarkeys #3	6 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-118
Revised 1-1-55

Operator ARCO OIL & GAS COMPANY		Pool		County		Lea								
Division of Atlantic Richfield Company		Blaineby Oil & Gas		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ Special ☒								
P.O. Box 1710, Hobbs, New Mexico 88240		88240		DATE OF TEST		7-9-79								
LEASE NAME	WELL NO.	LOCATION			CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL.	
		U	S	T					R	WATER BLS.	GRAV. OIL	OIL BLS.		GAS M.C.F.
Sarkeys	3	I	23	21S	37E	F 24/64"	140	10	24	2	38.6	8	288	36,000
Above is a 24 hr. productivity test preparatory to commingling down hole with 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 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.

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.

M. L. Shackelford
(Signature)

Engr. Tech. Spec.
(Title)

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO TESTS

C-116

Revised 1-1-55

Oil Company		Pool		County		Lea									
Division of Atlantic Richfield Company		Blinberry Oil & Gas													
Address		P.O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TEG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.		
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.	GAS M.C.F.
Sarkeys	3	I	23	21S	37E	7-9-79	F 24/64"	140	10	24	2	38.6	8	288	36,000
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

A. L. Shackelford
(Signature)

Engrg. Tech. Spec.

(Title)

Joe Hastings
State, Field, (Formation)

Special Projects, Midland, Texas

Special Projects

Odessa, Texas

7-31-79

New Mexico—
Lease and well number—

B
ine by
Date of

Bottom	Correction top of	Change from
Ron Dennis & Budd Smith		

from Bottom

[illegible]

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-1156
Revised 1-1-55

Operator ARCO OIL & GAS COMPANY Division of Atlantic Richfield Company		Pool Drinkard		County Lea											
Address P.O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		SCHEDULED		Completion		Specimen							
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL		
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.	GAS M.C.F.
Sarkeys	3	I	23	21	37	7-28-79	F 19/64"	50	7	24	0	38.6	2	27	13,500
Above test is a 24 hr. productivity test preparatory to commingling down hole with Blinbry 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.

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 303 and appropriate pool rules.

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

W. L. Shadeford
(Signature)

Engrg. Tech. Spec.
(Title)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-55

Operator ARCO OIL & GAS COMPANY Division of Atlantic Richfield Company		Pool		County		Lea									
Address		P.O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		SCHEDULED		Completion		Special					
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./BBL		
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.	GAS M.C.F.
Sarkeys	3	I	23	21	37	7-28-79	F 19/64"	50	7	24	0	38.6	2	27	13,500
Above test is a 24 hr. productivity test preparatory to commingling down hole with Blinbry Oil & Gas zone.															

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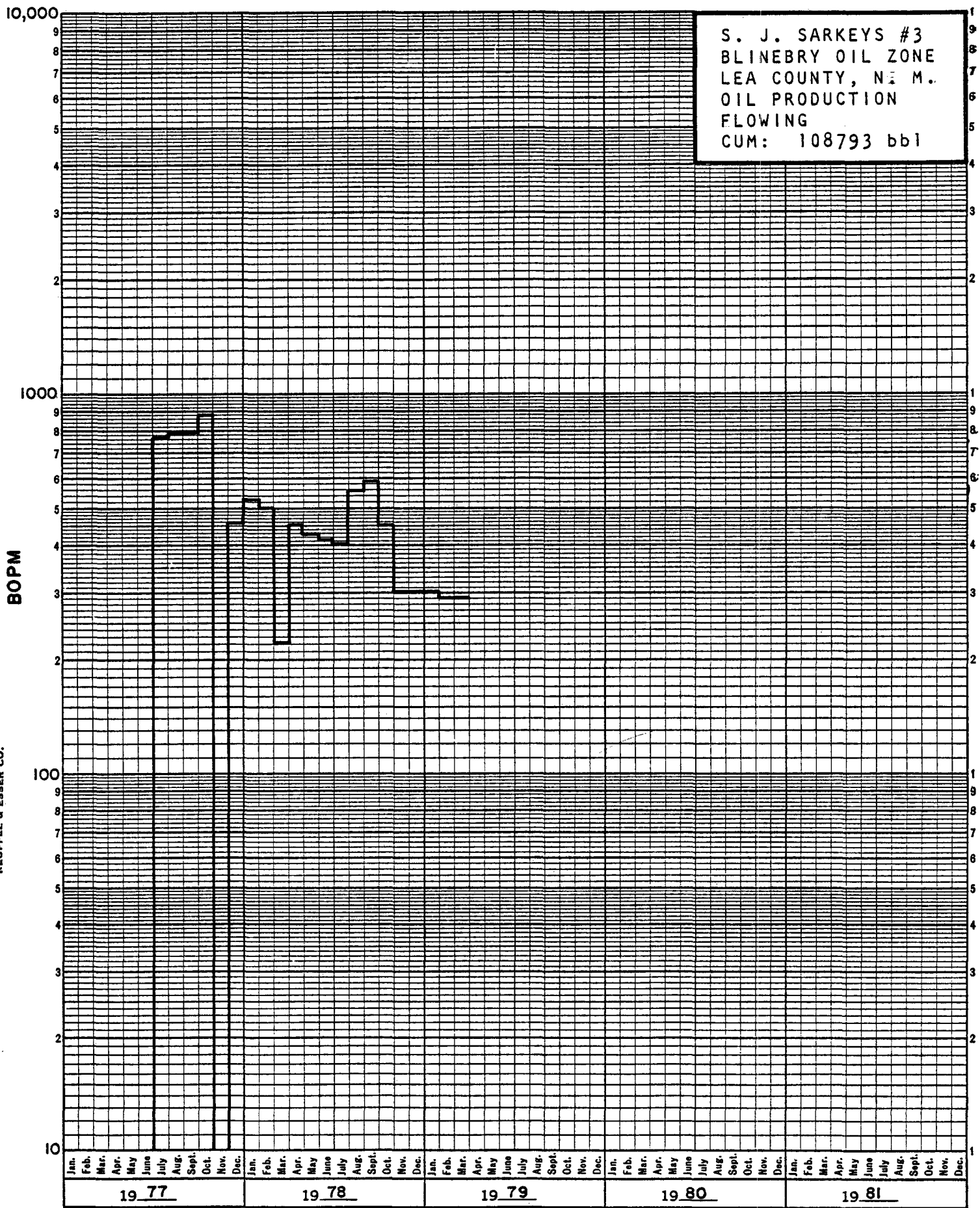
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

R. L. Shachtel
(Signature)

Engr. Tech. Spec.
(Title)

K&E 5 YEARS BY MONTHS 46 6693
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.

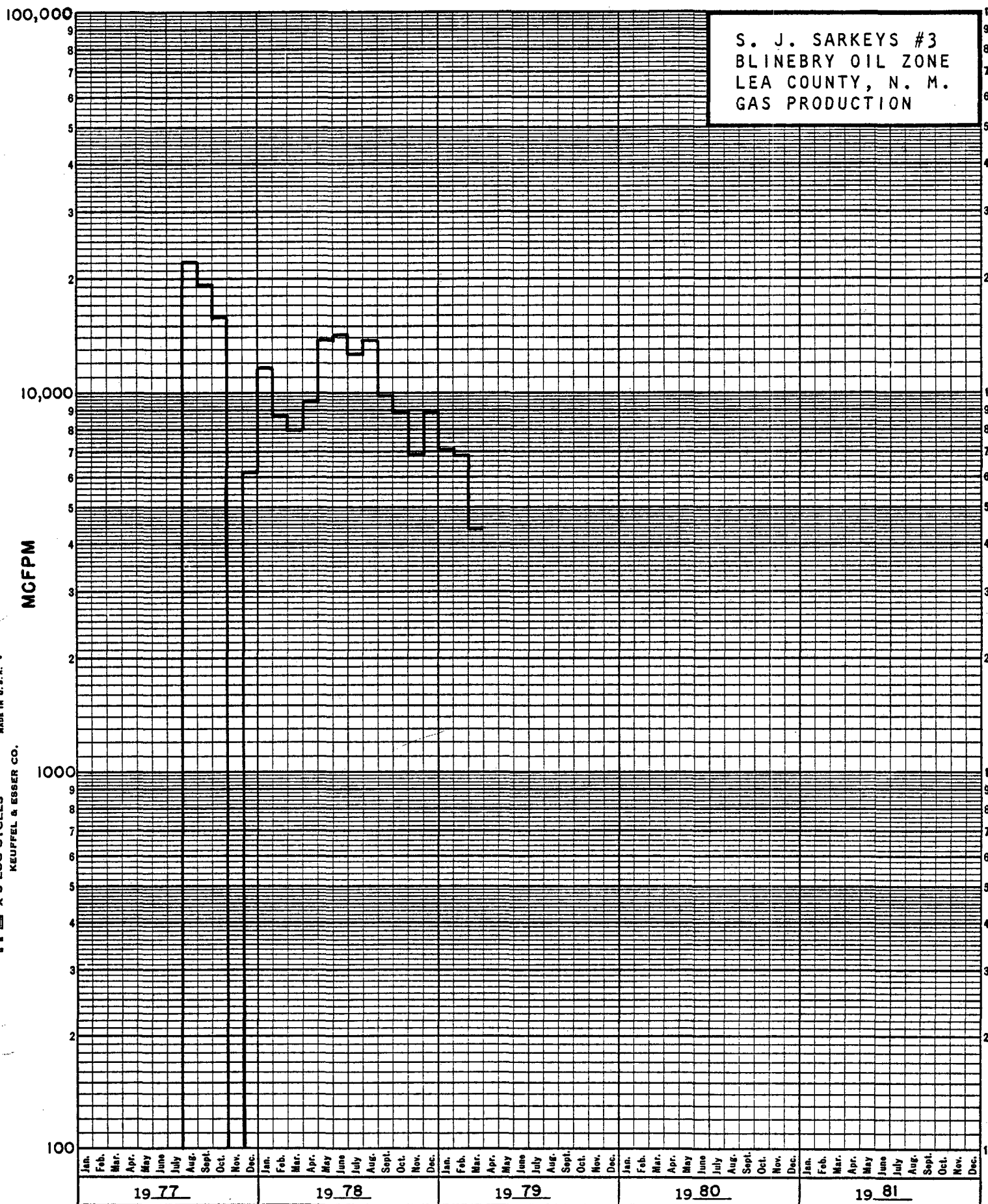


S. J. SARKEYS #3
 BLINEBRY OIL ZONE
 LEA COUNTY, N. M.
 OIL PRODUCTION
 FLOWING
 CUM: 108793 bbl

KE 5 YEARS BY MONTHS
X 3 LOG CYCLES
KEUFFEL & ESSER CO.

46 6693
MADE IN U. S. A.

46 6693
MADE IN U. S. A.



KEUFFEL & ESSER CO.

10,000

S. J. SARKEYS #3
DRINKARD ZONE
LEA COUNTY, N. M.
OIL PRODUCTION
FLOWING
CUM: 47109 bbl

K⁺E 5 YEARS BY MONTHS
X 3 LOG CYCLES
KEUFFEL & ESSER CO.

46 6693
MADE IN U.S.A. •

KE
5 YEARS BY MONTHS
X 3 LOG CYCLES
KEUFFEL & ESSER CO.

