

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
State 367 No. 2
Section 36, 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 Blinbry and Drinkard zones of the State 367 No. 2 located in Section 36, 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-261) 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 6512' and is therefore allowed a commingled production rate up to 40 BOPD. The water production limit is 40 BWPD from each zone.

The State 367 No. 2 produces 4 MCFGPD from the Blinbry by natural flow and has a measured bottom hole pressure of 612 psia. Drinkard production is also by natural flow. This zone currently produces 2 BOPD + 136 MCFGPD from a measured bottom hole pressure of 567 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.

TO CONSERVATION DIV.

JUN 1 1981

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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. GOVERNMENT PRINTING OFFICE

JUN 11 1961

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STATE 367 #2

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

State 367 #2
1980' FSL & 660' FWL
Section 36-21S-37E
Lea County, New Mexico
3. Producing Zones:

Blinebry by natural flow.
Drinkard by natural flow.
Bottom-most perforation at 6512' /
4. Commission Order No. Authorizing Dual Completion:

MC-1630
5. Decline Curves: attached
6. Fluid Incompatibility:

Production from these zones is being
commingled in the surface facilities
evidence of fluid incompatibility has
been found. (PC-261).
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. Bottom Hole Pressures:

Blinebry - 612 psi
Drinkard - 567 psi
10. All Offset Operators are being notified by copy of this application.

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OFFSET OPERATORS:

Amoco
P. O. Box 68
Hobbs, New Mexico 88240

Getty Oil Company
P. O. Box 730
Hobbs, New Mexico 88240

Marathon Oil Company
P. O. Box 2409
Hobbs, New Mexico 88240

Cities Service Oil Company
P. O. Box 1919
Midland, Texas 79702

Exxon
P. O. Box 1600
Midland, Texas 79701

Conoco, Inc.
P. O. Box 460
Hobbs, New Mexico 88240

Petro Lewis Corporation
P. O. Box 509
Levelland, Texas 79336

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		Blinebry													
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	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
State 367	2	L	36	219	37E	5-09-81	S 19/64"	50	1	24	0	39.2	0	4	-0-
Above is a 24 hr. productivity test preparatory to downhole commingling 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 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.

Lucas M. Tidwell
(Signature)

Operations Engineer

(Title)

May 26, 1981

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County		Completion		Special							
ARCO Oil and Gas Company		Drinkard		Lea											
Division of Atlantic Richfield Company															
Address		P. O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		SCHEDULED									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
State 367	2	1	36	21S	37E	5-10-81	S 21/64"	65	2	24	0	39.2	2	136	68,000
Above is a 24 hr. productivity test preparatory to down hole commingling with the Blinebry 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.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 30) and appropriate pool rules.

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

Luann M. Tidwell
(Signature)

Operations Engineer

May 26, 1981
(Title)

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OIL CONSERVATION DIV.

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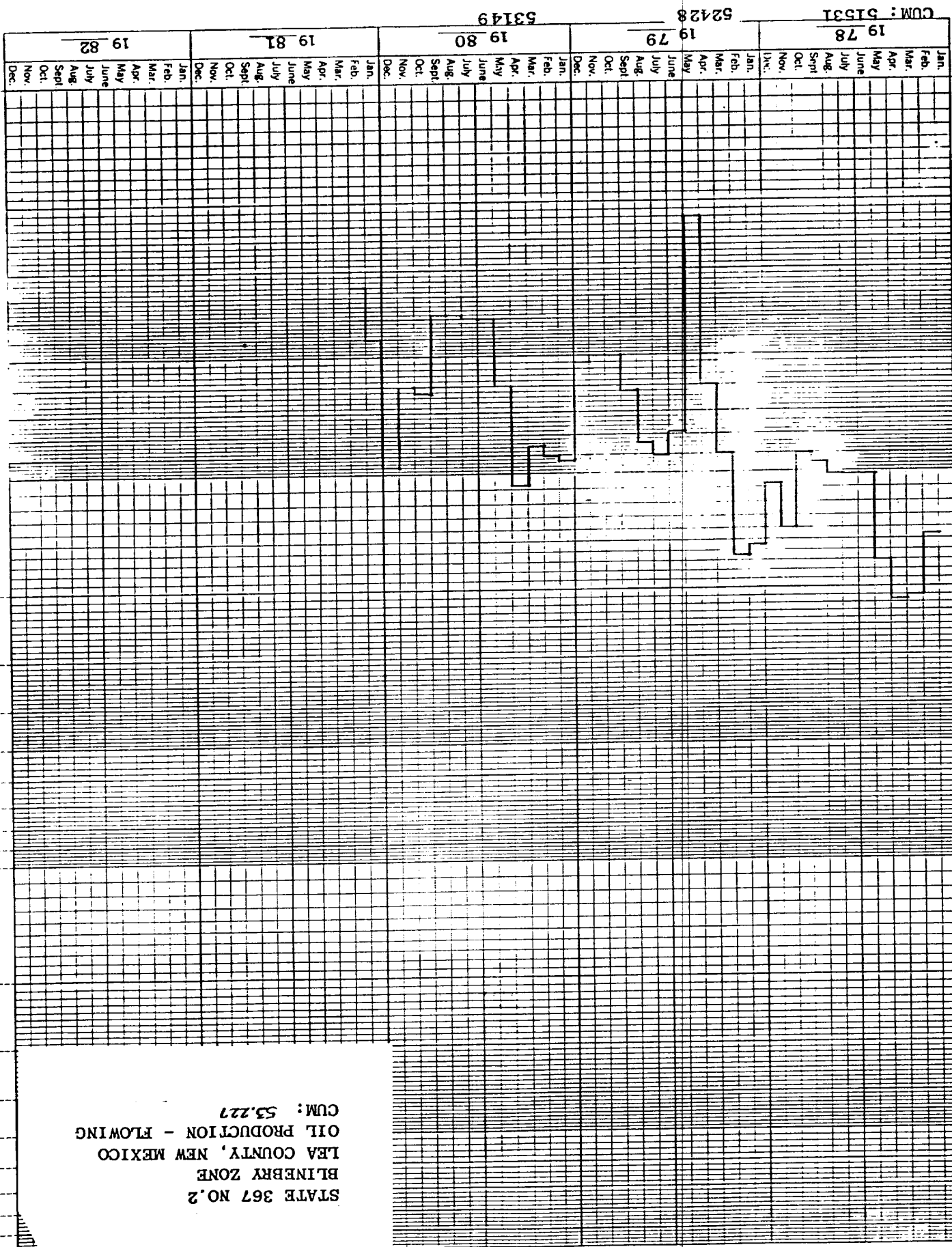
To	Office	From	Office	Date
Susan Tidwell	Midland, Texas	V.J. Cummings	Messia, Texas	
State Field (Formation)				
New Mexico - Eunice	Special Projects			
Lease and well number	Date of test	Well elevation feet DF	Test depth feet DF	Top of perforation feet DF
				Hours well shut in
				Tubing pressure PSI, GA
				Oil level feet, DF
				Water level feet, DF
				Temperature at test depth deg F
				Bottom hole pressure at test depth PSI, GA
				Correction test depth to Middle perforation Feet
				Grad. PSI per foot
				Total PSI
				Bottom hole pressure at Middle perforation PSI
				Feet
				Correction top of perf. to datum plane
				Grad. PSI per foot
				Total PSI
				Change from previous test
				Date
				PSI
				Bottom hole press. datum plane PSI

S.J. Sarkis No. 4 2I 3-4-81

→ State 367 No. 2 2I 3-4-81

BOPM

46 6690



STATE 367 NO.2
BLINEBRY ZONE
LEA COUNTY, NEW MEXICO
OIL PRODUCTION - FLOWING
CUM: 53,227

09LCONSERNATIONDW.

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RECEIVED

K-E
3 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

K-E
3 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

K-E
3 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

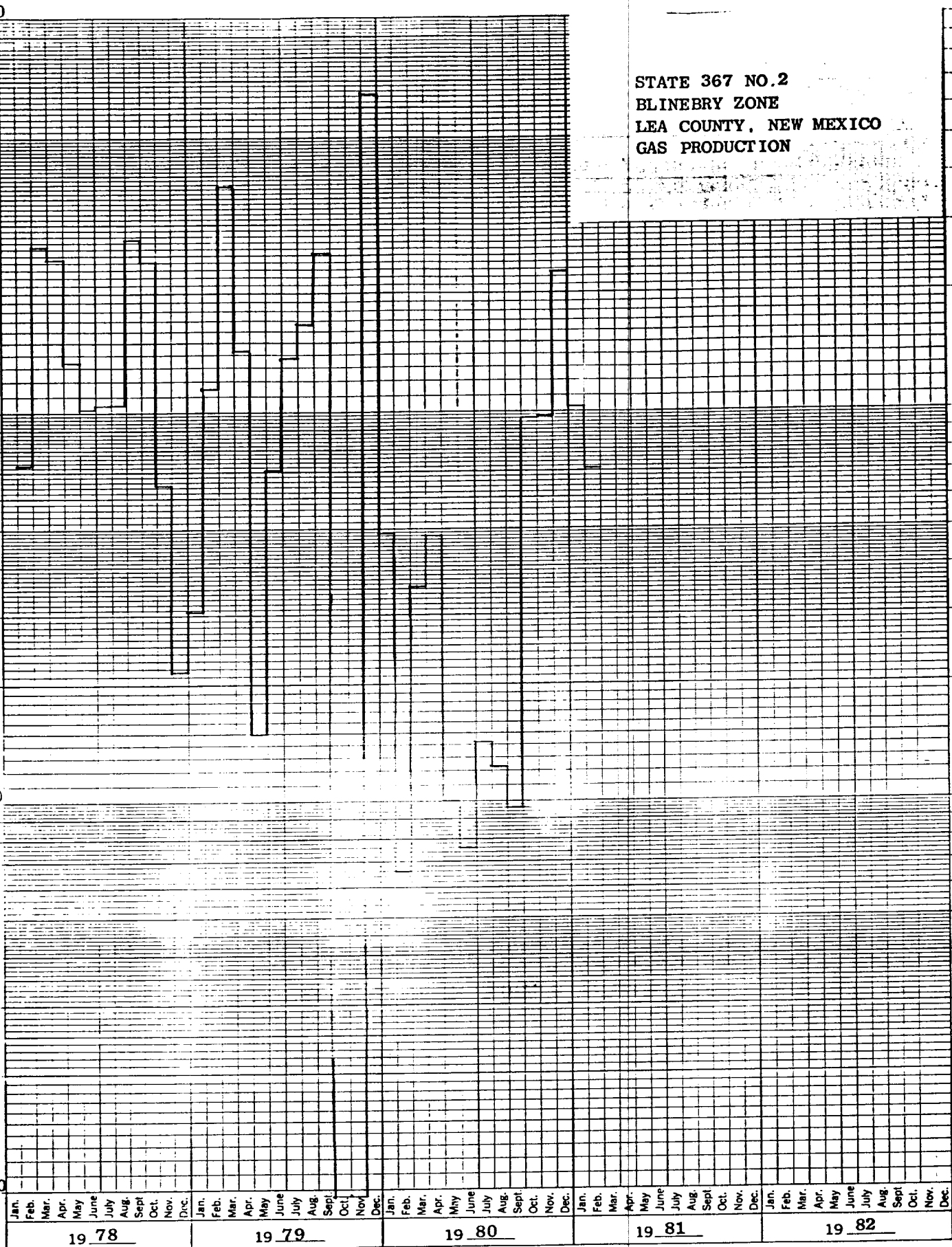
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MCFGPM

STATE 367 NO.2
BLINEBRY ZONE
LEA COUNTY, NEW MEXICO
GAS PRODUCTION



OIL CONSERVATION DIV.

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RECEIVED

KEIFFEL & CO. INC. U.S.A.
5 YEARS OF MOVING & LOGGING

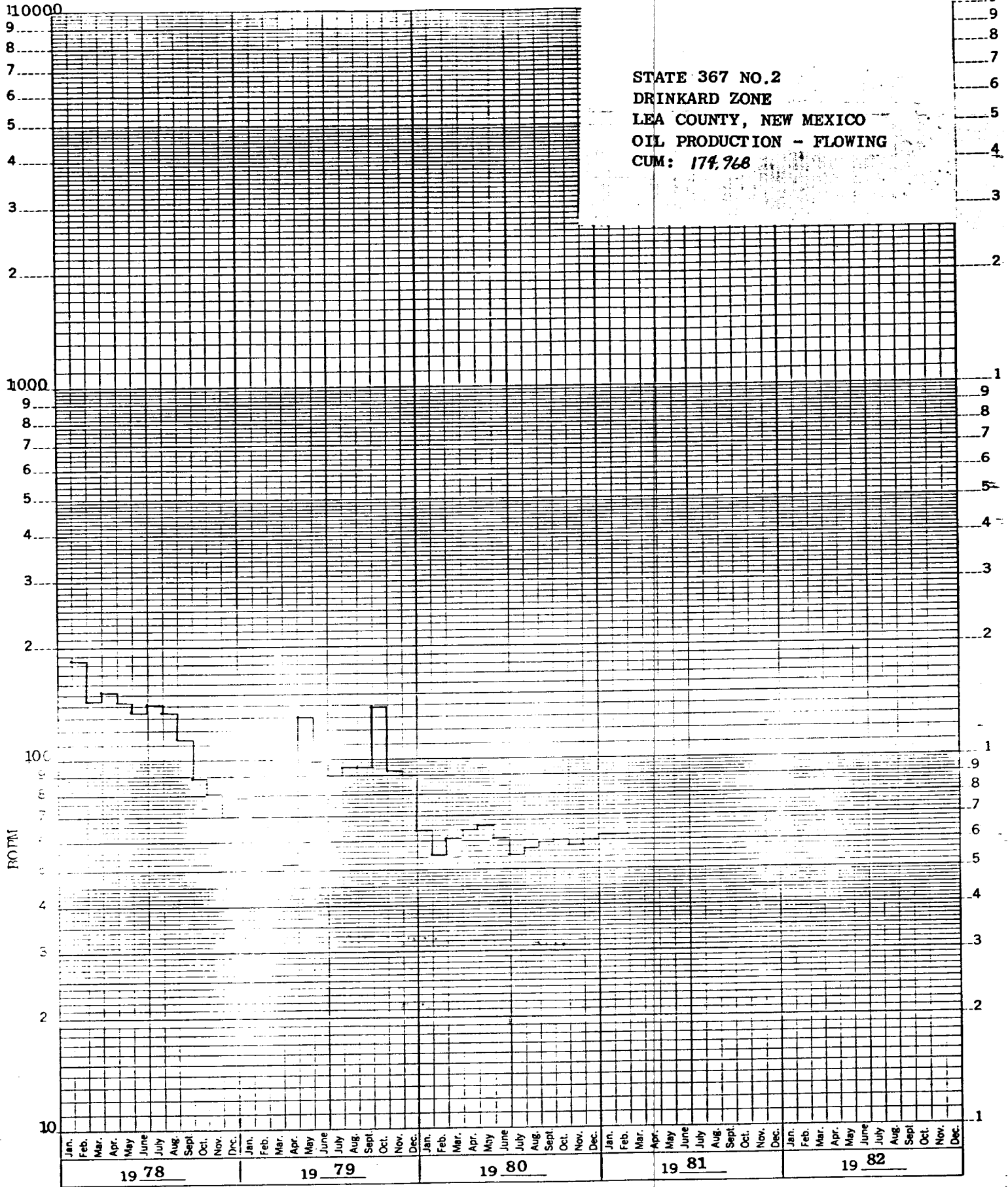
OIL CONSERVATION DIV.

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46 6690

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



CUM: 173121 174188 174844

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10017
10309
11374
13149



K-E
5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 6690

BWPM

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STATE 367 NO.2
DRINKARD ZONE
LEA COUNTY, NEW MEXICO
WATER PRODUCTION

Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.
19 78	19 79	19 80	19 81	19 82