

SHELL OIL COMPANY

P. O. BOX 1810
MIDLAND, TEXAS 79701

January 12, 1972

Subject: Application for Downhole Commingling
Livingston No. 8
Drinkard Field, Section 3, T-21-S,
R-37-E, Lea County, New Mexico

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Attention Mr. A. L. Porter, Jr.
Secretary Director

Gentlemen:

Shell Oil Company respectfully requests administrative approval under provisions of Order No. R-3845 to commingle in the wellbore production from the Blinebry and Drinkard pools in its Livingston No. 8, located in the Lot 14 ~~at~~ (Unit N) Section 3, T-21-S, R-37-E, Lea County, New Mexico. This dual completion was authorized by Administrative Order No. MC1108 dated November 12, 1961. The attached plat depicts the Livingston lease as outlined in red and the No. 8 well as indicated by the red circle.

The attached Form C-116 shows the results of production tests taken within the last thirty days on both the Blinebry and Drinkard zones. The upper Blinebry zone is currently produced by plunger lift and the lower Drinkard zone is produced by intermittent flow up 2-1/16" OD tubing.

Also attached are bottom hole pressure tests which indicate the static bottom hole pressures to be approximately 575 and 600 psi for the Blinebry and Drinkard zones, respectively.

The attached production curves depict the production history for each zone and an estimate of future performance as shown by the dashed line. We propose to allocate production from each zone by means of this curve extension.

Production from the Blinebry and Drinkard formations has been commingled at the tank battery for a number of years with no indication of fluid incompatibility. Since the crudes are commingled at the tank battery before being sold, no difference in value should result by commingling the production within the wellbore.

DHC-104
RECEIVED
JAN 17 1972
NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE
Due
Feb 6

A copy of this application is being furnished to all offset operators. Your further handling of approval of this application will sincerely be appreciated.

Yours very truly,



For: Jack L. Mahaffey
Production Manager
Mid-Continent Division

RRS:RH

Attachments

cc - Offset Operators (Per Attached List)

- New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, NM 88240

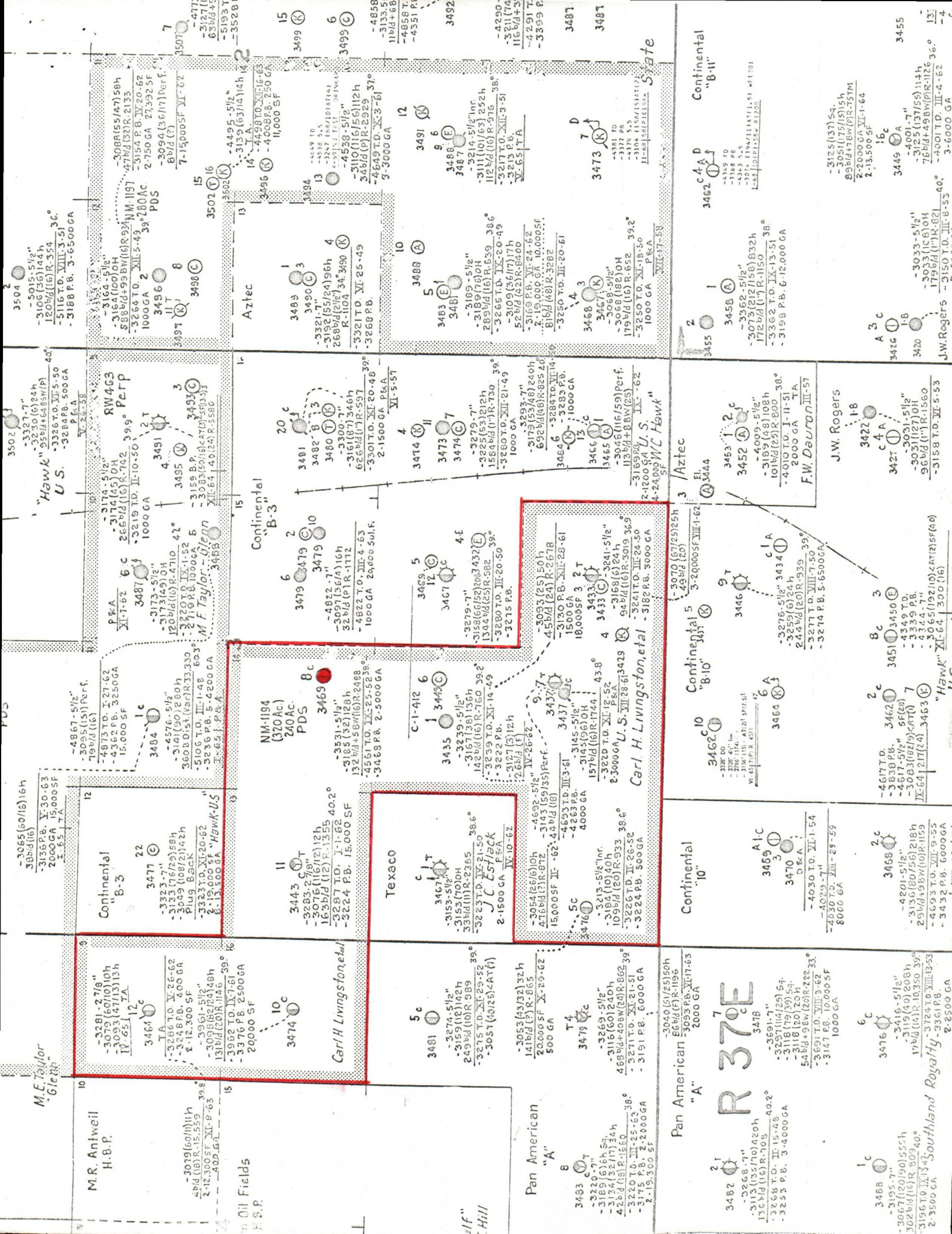
OFFSET OPERATORS TO
LIVINGSTON LEASE
LEA COUNTY, NEW MEXICO

Continental Oil Co.
P. O. Box 431
Midland, TX 79701

Gulf Oil Co. - U. S.
P. O. Box 1150
Midland, TX 79701

Pan American Petroleum Corp.
P. O. Box 68
Hobbs, NM 88240

Texaco Inc.
P. O. Box 3109
Midland, TX 79701



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

C-116
Revised 1-1-65

Operator		Pool				County										
Shell Oil Company		Blainebray Oil				Lea										
Address		P. O. Box 1509, Midland, Texas 79701				TYPE OF TEST - (X) ☒ TEST - (X)										
						Scheduled ☐ Completion ☐ Special ☒										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	STATUS	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 BBL'S.	GRAV. OIL		OIL BBL'S.	GAS M.C.F.
Livingston	8	N	3	21	37	12-29	F	1	160	7	24	0	38.4	10	71	7100
Test taken for downhole commingling.																

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.

E. H. Spung for R. A. Halverson
(Signature)

Product Acctg. Supvr.

(Title)

1-11-72

(Date)

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

C-116
Revised 1-1-65

Operator Shell Oil Company		Pool Drinkard		County Lea											
Address P. O. Box 1509, Midland, Texas 79701				TYPE OF TEST - (X) ☐ Scheduled ☐ Completion ☐ Special ☒											
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 BBL'S.	GRAV. OIL	OIL BBL'S.		GAS M.C.F.
Livingston	8	N	3	21	37	12-29	F 32/64	90	6	24	1	38.6	12	148	12333
Test taken for downhole comingling.															

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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E. H. Young R. A. Halverson
Product Acctg. Supvr.
(Signature)

1-11-72
(Date)

MONTHLY OIL PRODUCTION

10,000

1,000

100

10

BOPM



1967

19 68

19 69

19 70

19 71

IN STOCK DIRECT FROM CODEX BOOK CO. INC. NORWOOD, MASS. 02062
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NO. 4257. TEN YEARS BY MONTHS X 3 3-INCH CYCLES RATIO RULING

Codex
GRAPH PAPER

LIVINGSTON 8
DRINKARD

MONTHLY OIL PROD.

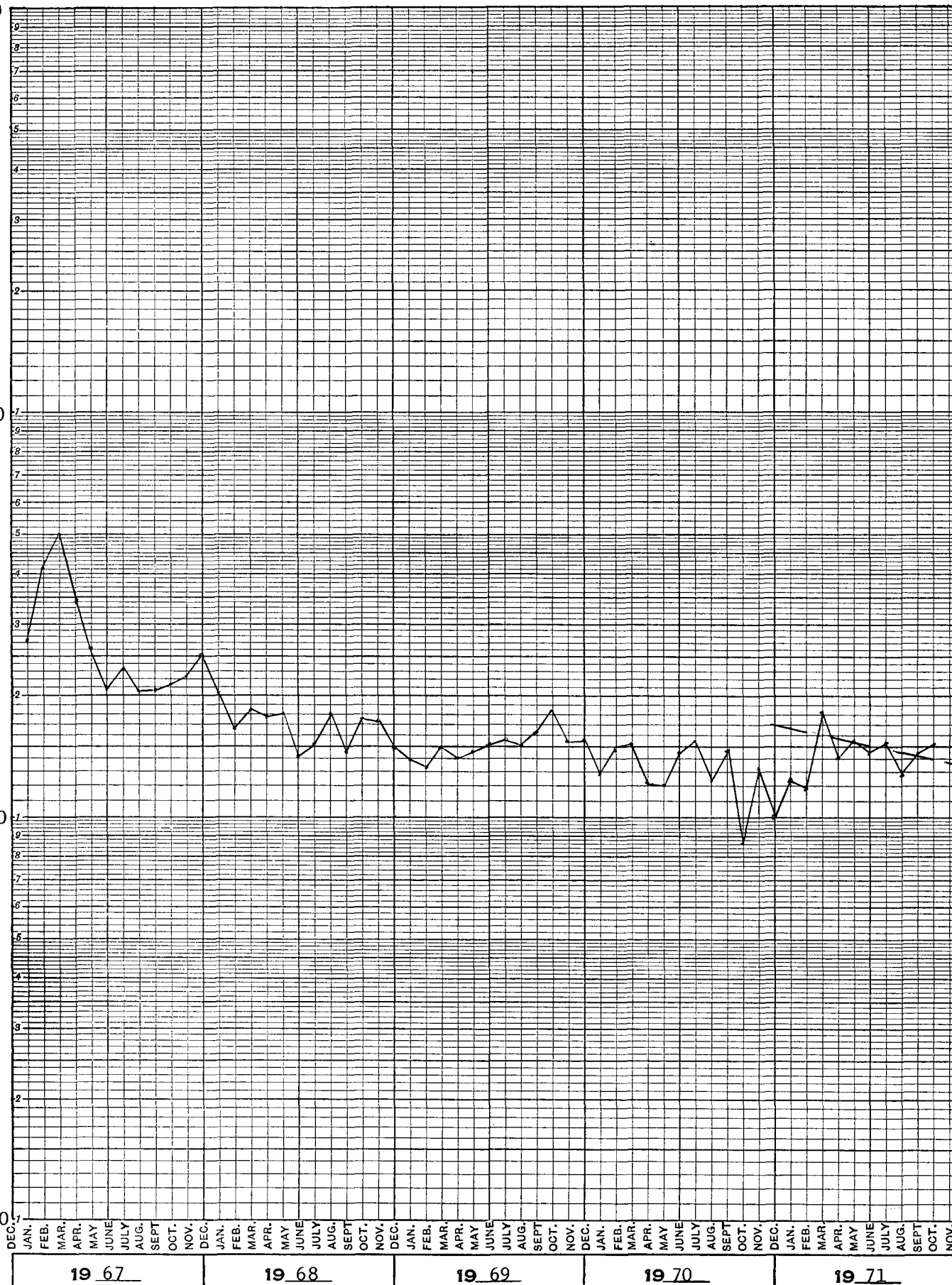
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BOPM



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