

SHELL OIL COMPANY

PETROLEUM BUILDING

P.O. BOX 1509

MIDLAND, TEXAS 79701

April 13, 1970

APR 13 1970 AM 8 20

DHC-42

Due May 7

Subject: Application for Downhole Commingling
State Section 2 Well No. 4
Unit U Section 2, T-21-S, R-37-E
Lea County, New Mexico

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 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 Drinkard and Tubb pools in its State Section 2 No. 4, located in Unit U of Section 2, T-21-S, R-37-E, Lea County, New Mexico. This dual completion was authorized by Administrative Order No. DC-614. The attached plat shows the State Section 2 lease outlined in red and the No. 4 well by the red circle.

Attached hereto are Forms C-116 showing the results of tests taken within the last 30 days on the producing Drinkard zone. The Tubb oil zone in this well was temporarily abandoned in March 1961 at which time it was producing six barrels of oil per day.

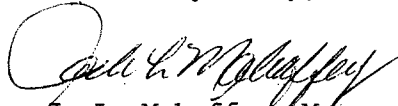
The Drinkard zone is artificially lifted and the estimated bottom hole pressure after 24 hour shut in is 950 psi based on pressures observed in offset producers. The Tubb was artificially lifted prior to its temporary abandonment in 1961. The estimated bottom hole pressure is 800 psi based on pressures observed in offset producers.

Attached is a production curve for each zone. The future production from the Drinkard zone is estimated by the extension of the curve. We propose to allocate this zone's production on the curve extension and the remainder of the well's production to the Tubb.

The fluid from these two pools has been commingled at the tank battery for a number of years from producing offset Tubb wells on this lease and Drinkard production from the subject well. There has been no indication of incompatibility since both crudes are typical Permian high gravity crude. Since the crudes have been commingled at the tank battery before being sold to the pipeline, there should be no difference between the value of the commingled stream at the sources and that commingled within the well bore.

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

Yours very truly,



J. L. Mahaffey, Manager
Production Department - West
Midland Division

ARC:lb

Attachments

cc - Offset Operators (per attached list)

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

Offset Operators to
State Section 2 Lease
Lea County, New Mexico

Aztec Oil & Gas Company
P. O. Box 847
Hobbs, New Mexico 88240

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico 88201

STATE SECTION 2 WELL NO. 4
TUBB ZONE

IN STOCK DIRECT FROM CODEX BOOK CO. INC. NORWOOD MASS. 02062
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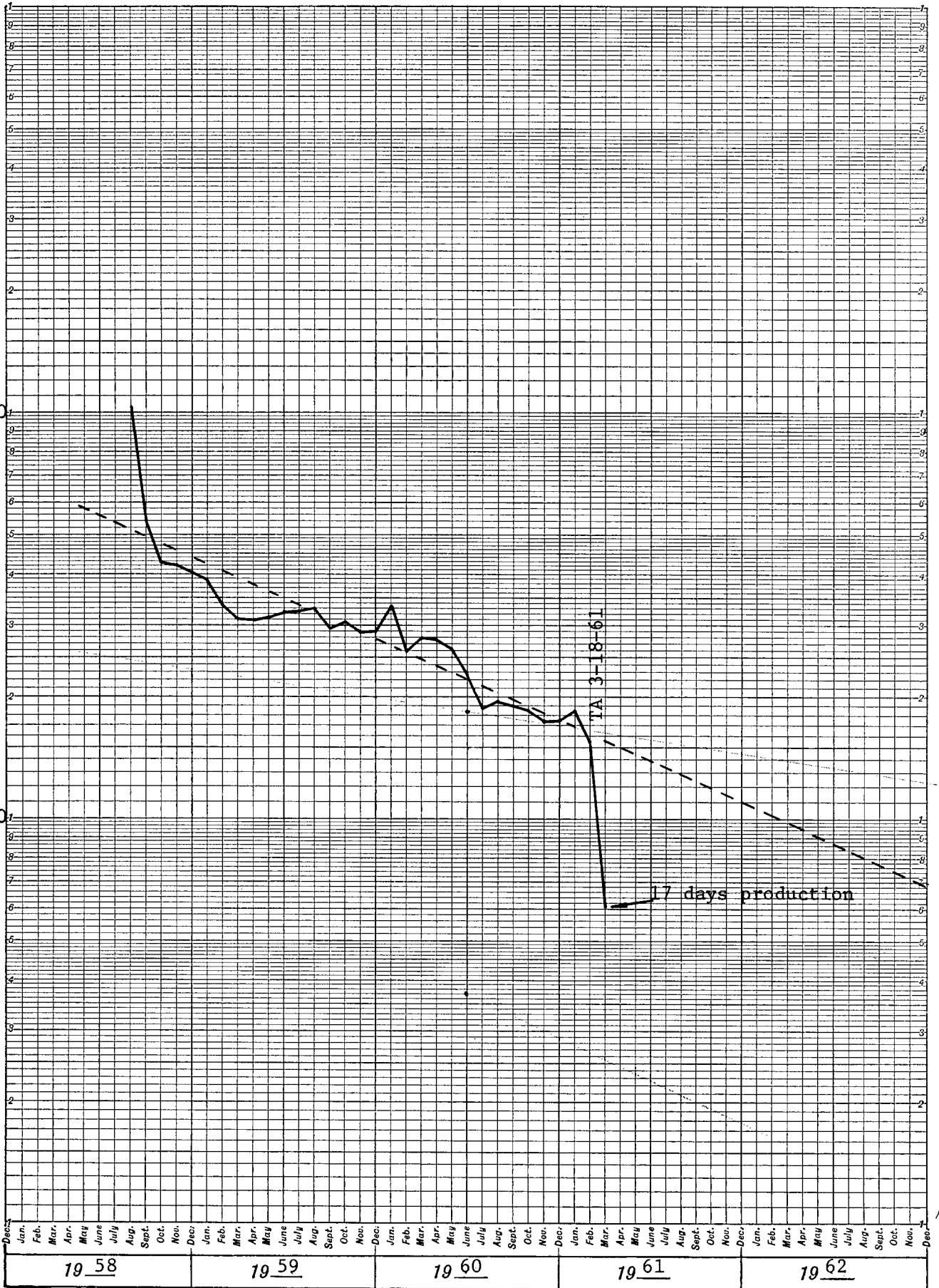
CODEx
GRAPH PAPER

NO. 3255. FIVE YEARS BY MONTHS X 3 3-INCH CYCLES RATIO RULING.

BOPM

1000

100



116

37

153

71

72

STATE SECTION 2 WELL NO. 4
DRINKARD ZONE

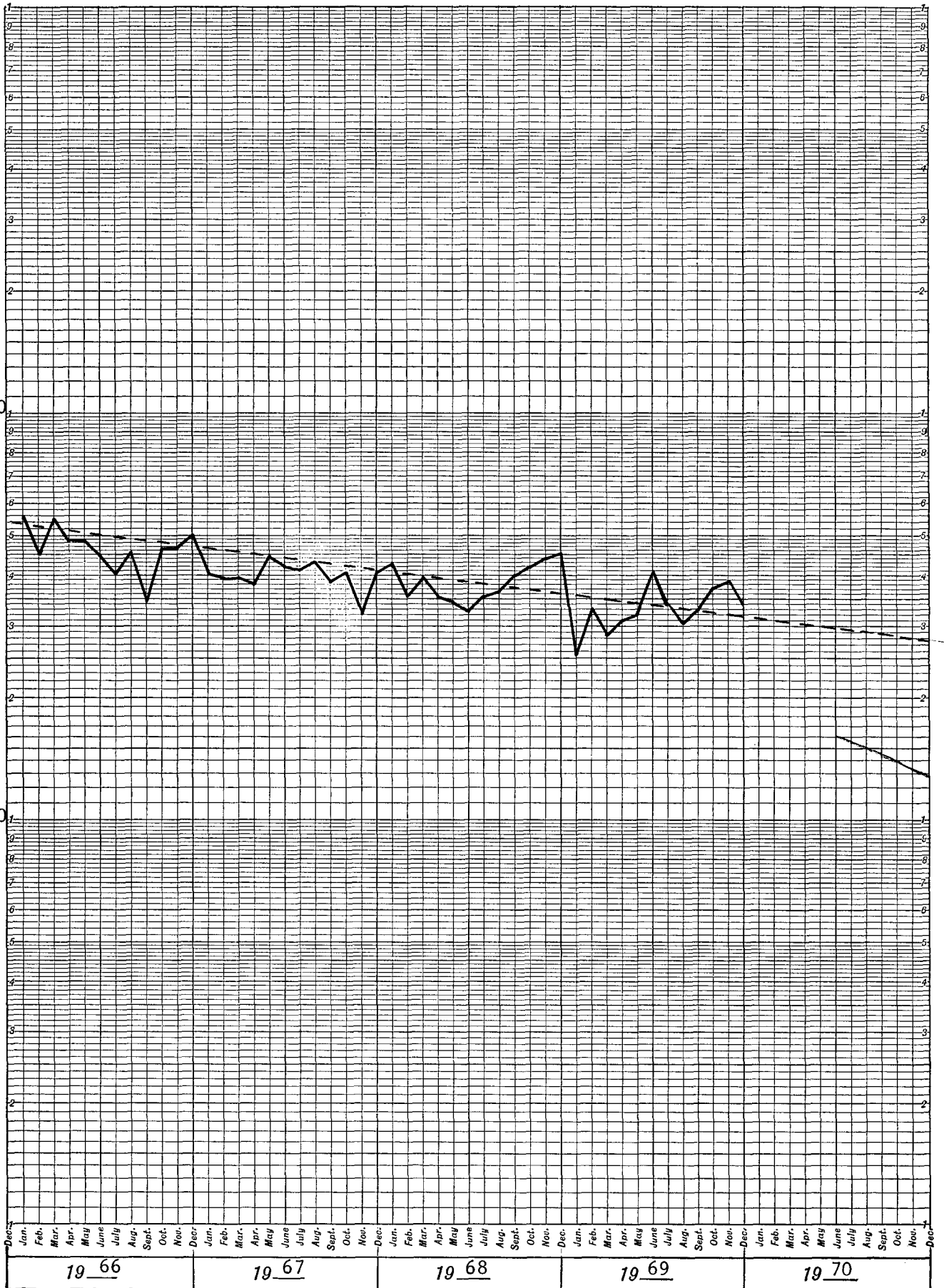
IN STOCK DIRECT FROM CODEX BOOK CO. INC. NORWOOD MASS. 02062
PRINTED IN U.S.A.
GRAPH PAPER

NO. 3255. FIVE YEARS BY MONTHS X 3 3-INCH CYCLES RATIO RULING.

BOPM

1000

100



C-116

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.

R. C. Cabaniss
R. C. Cabaniss

Division Production Supt.

4-10-70 (Title)

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Shell Oil Company		Pool Tubb Oil		County Lea											
Address P.O. Box 1509 Midland, Texas 79701		TYPE OF TEST - (X)		Completion ☐ Special ☒											
LEASE NAME State Section 2	WELL NO. 4	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.	
	U	2	21	37	Well was temporarily abandoned					March	1961. Last test	6 BOPD.			

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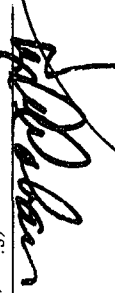
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(Signature) **R. C. Cabaniss**
Division Production Supt.

4-10-70 (Date)

