



DHC-87

Due May 23

# CONTINENTAL OIL COMPANY

P. O. Box 460

HOBBS, NEW MEXICO 88240

PRODUCTION DEPARTMENT

HOBBS DIVISION

L. P. THOMPSON

Division Manager

G. C. JAMIESON

Assistant Division Manager

New Mexico Oil Conservation Commission

P. O. Box 2088

Santa Fe, New Mexico

April 29, 1971

RECEIVED  
MAY 3-1971

1001 NORTH TURNER  
TELEPHONE 393-4141

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

Gentlemen:

Subject: Application for Downhole Commingling - Lockhart B-11  
Well No. 17 F-11-21S-37E

Continental Oil Company, Box 460, Hobbs, New Mexico, as operator of the Lockhart B-11 Lease respectfully requests administrative approval under the provisions of Order No. R-3845 to commingle in the well bore production from the Drinkard and Wantz Abo Pools in its Lockhart B-11 Well No. 17 located in Unit F of Section 11, T-21S, R-37E, Lea County, New Mexico. This dual completion was authorized by administrative order No. MC-1174. The attached plat shows the Lockhart B-11 Lease outlined in red and the No. 17 well by the red circle.

Test data for the Lockhart B-11 Well No. 17 for the past several months has not been reliable due to packer leakage which has resulted in communication between the two zones. On February 5, 1971, the Wantz Abo tested (flowing) 5 BOPD, 1 BWPD and 194 MCFPD of gas, with the Drinkard shut-in. On February 3, 1971, the Drinkard pumped 7 BOPD, 4 BWPD and 82 MCFPD of gas, with the Wantz Abo shut-in. With both zones open, neither side will produce at a stabilized rate. No C-116 is attached for the well, due to the unreliable test data.

On April 21, 1971, the bottom hole pressure in the Drinkard zone was measured in the Lockhart B-11 Well No. 15 located approximately 1000 feet southeast from the Lockhart B-11 Well No. 17. The Drinkard pressure measured to be 1334 psi after shut-in for 24 hours. The Wantz Abo pressure was measured in the Lockhart B-11 No. 3 located 3000 feet west from the Lockhart B-11 No. 17. The Wantz Abo pressure was measured to be 503 psi after shut-in for 24 hours. It was not considered feasible to obtain pressure surveys in the Lockhart B-11 Well No. 17 due to the communication between the zones. The commingled production from the Lockhart B-11 Well No. 17 will be produced by pumping.

Attached herto is a production decline curve for each zone. Anticipated production from the well is 15 BOPD by pumping.

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The fluid from these two pools has been commingled at the tank battery for a number of years and there has been no indication of incompatibility. Both crudes are typical Permian high gravity crude. Since the crudes have been commingled at the tank battery before sale to the pipe line, there should be no difference between the valve of the commingled stream at the surface and that commingled within the well bore.

The Lockhart B-11 is a Federal lease and a copy of the application is being furnished the USGS and to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,



G. C. Jamieson  
Assistant Division Manager

GCJ-DW

CC: NMOCC-HOBBS  
Aztec Oil & Gas Company  
Shell Oil Corporation  
Gulf Oil Corporation  
Amoco Production Company  
Atlantic Richfield  
Chevron Oil Company

USGS (2) RLA JJB JWK File





LOCKHART B-11 NO. 17





