

DEC 8 1969

December 5, 1969

New Mexico Oil Conservation Commission (2)  
P. O. Box 2088  
Santa Fe, New Mexico

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

Gentlemen:

Subject: Application for Downhole Commingling  
Lockhart B-11 Well No. 10 - H-11-21S-37E

DHC-18  
12-28  
Aul

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 Terry-Blinebry Pools in its Lockhart B-11 Well No. 10 located in Unit H of Section 11, T21S, R37E, Lea County, New Mexico. This dual completion was authorized by administrative Order No. MC-1569. The attached plat shows the Lockhart B-11 Lease outlined in red and the No. 10 well by the red circle.

Attached hereto are forms C-116 showing the results of tests taken within the last 30 days on the two zones in this well. As shown by these tests, the combined producing rate is 13 barrels oil, 6 barrels water and 121 MCF gas per day.

Both zones are artificially lifted. The estimated bottom hole pressure after 24 hour shut in of the Blinebry zone is 875 psi based on the surface shut in pressure and the measured fluid level. The estimated BHP of the Drinkard zone is 475 psi. The commingled production will be artificially lifted.

Attached hereto is a production decline curve for each zone. The future production from the Blinebry zone is estimated by the extension of the curve. Since the Blinebry has been artificially lifted without obstruction by a packer, we propose to allocate this zone's production on the curve extension and the remainder of the well's production to the Drinkard.

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 value of the commingled stream at the surface and that commingled within the well bore.

NMOCC  
Lockhart B-11  
Page 2

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

Yours very truly,

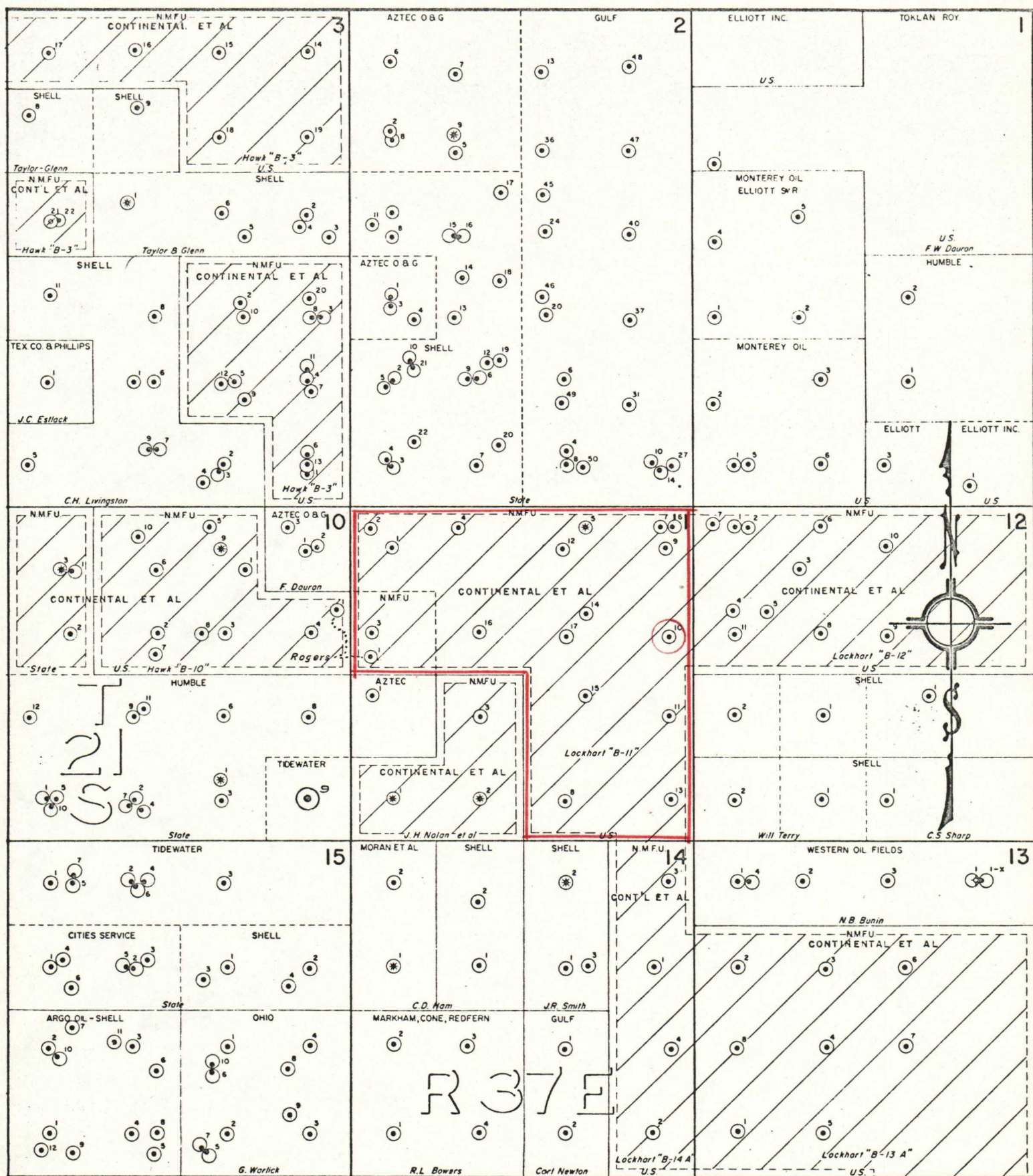


G. C. Jamieson  
Assistant Division Manager

VTL-JS

CC: NMOCC-Hobbs  
USGS-Hobbs (2)  
RLA JJB JWK

Gulf Oil Corporation  
Shell Oil Company  
Humble Oil and Refining Company



CONTINENTAL OIL COMPANY  
 PRODUCTION DEPARTMENT  
 HOBBS DIVISION  
 LOCKHART B-11 LEASE PLAT  
 LEA COUNTY, NEW MEXICO  
 SCALE: 1"=2000'

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

| Operator                    |          | Pool                               |    | County                                                                          |              |                               |             |             |                 |                      |                   |             |           |                              |           |
|-----------------------------|----------|------------------------------------|----|---------------------------------------------------------------------------------|--------------|-------------------------------|-------------|-------------|-----------------|----------------------|-------------------|-------------|-----------|------------------------------|-----------|
| Continental Oil Company     |          | Drinkard                           |    | Lea                                                                             |              |                               |             |             |                 |                      |                   |             |           |                              |           |
| Address                     |          | TYPE OF TEST - (X)                 |    | Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/> |              |                               |             |             |                 |                      |                   |             |           |                              |           |
| Box 460, Hobbs, N. M. 88240 |          | Scheduled <input type="checkbox"/> |    |                                                                                 |              |                               |             |             |                 |                      |                   |             |           |                              |           |
| LEASE NAME                  | WELL NO. | LOCATION                           |    |                                                                                 | DATE OF TEST | STAGE                         | CHOKES 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. |
| ✓ Lockhart B-11             | 10       | H                                  | 11 | 21                                                                              | 37           | 11-17-69p                     | Open        | 40          | 5               | 24                   | 1                 | 37          | 2         | 50                           | 25,000    |
| Lockhart B-11               | 4        | C                                  | 11 | 21                                                                              | 37           | Shut-in; pumping unit moved.  | Open        | 40          | 4               | 24                   | Last test         | 38          | 3 BOPD    | 25                           | 3,571     |
| Hawk A                      | 5        | D                                  | 9  | 21                                                                              | 37           | 11-22-69p                     | Open        | 40          | 4               | 24                   | 1                 | 38          | 7         | 25                           |           |
| Hawk A                      | 4        | U                                  | 4  | 21                                                                              | 37           | Shut-in - pumping unit moved. | Open        | 45          | 2               | 24                   | 0                 | 37          | 2         | 33                           | 16,500    |
| Hawk B-3                    | 13       | X                                  | 3  | 21                                                                              | 37           | 11-16-69p                     | Open        | 40          | 10              | 24                   | 1                 | 36          | 10        | 32                           | 3,200     |
| Lockhart B-11               | 11       | I                                  | 11 | 21                                                                              | 37           | 11-13-69p                     | Open        | 40          | 8               | 24                   | 2                 | 38          | 5         | 24                           | 4,800     |
| Lockhart B-14A              | 1        | H                                  | 14 | 21                                                                              | 37           | 11-15-69p                     | Open        | 30          | 8               | 24                   | 2                 | 38          | 5         | 24                           |           |
| Lockhart B-11               | 16       | F                                  | 11 | 20                                                                              | 37           | Shut-in - pumping unit moved. | Open        | 40          | 33              | 24                   | 3                 | 38          | 13        | 53                           | 4,070     |
| Lockhart B-12               | 3        | C                                  | 12 | 21                                                                              | 37           | 11-22-69p                     | Open        | 40          | 33              | 24                   | 3                 | 38          | 13        | 53                           |           |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

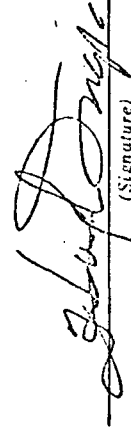
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized 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.

  
(Signature)

Administrative Section Chief

(Title)

12-5-69

(Date)

NMOCC (2) FILE

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

| Operator                    |          | Pool               |    | County     |              | Lea:       |             |                  |                      |                   |             |           |                           |           |            |
|-----------------------------|----------|--------------------|----|------------|--------------|------------|-------------|------------------|----------------------|-------------------|-------------|-----------|---------------------------|-----------|------------|
| Continental Oil Company     |          | Terry Blinbry      |    |            |              |            |             |                  |                      |                   |             |           |                           |           |            |
| Address                     |          | TYPE OF TEST - (X) |    | Completion |              | Special    |             |                  |                      |                   |             |           |                           |           |            |
| Box 460, Hobbs, N. M. 88240 |          | Scheduled          |    |            |              | X          |             |                  |                      |                   |             |           |                           |           |            |
| 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. |
| Lockhart B-11               | 10       | H                  | 11 | 21         | 37           | 11-10-69P  | Open        | 40               | 12                   | 24                | 5           | 38        | 11                        | 71        | 6,450      |
| Lockhart B-11               | 4        | C                  | 11 | 21         | 37           | 11-22-69P  | Open        | 35               | 7                    | 24                | 2           | 38        | 10                        | 52        | 5,200      |
| Lockhart B-11               | 11       | I                  | 11 | 21         | 37           | 11-13-69F  | SCF         | 200              | 15                   | 24                | 2           | 39        | 12                        | 98        | 8,160      |
| Lockhart B-14A              | 1        | H                  | 14 | 21         | 37           | 11-11-69F  | Open        | 140              | 5                    | 24                | 2           | 39        | 5                         | 1030      | 206,000    |
| Lockhart B-11               | 16       | F                  | 11 | 20         | 37           | 11-23-69F  | 32/64       | 120              | 51                   | 24                | 5           | 38        | 23                        | 343       | 14,900     |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

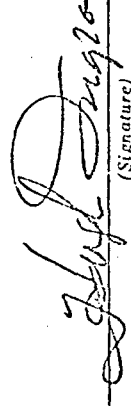
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
(Signature)

Administrative Section Chief

(Title)

12-5-69

(Date)



LOCKHART B-11 NO. 10  
BLINEBRY-DRINKARD

10,000

BOPM

1000

100

