

CERTIFICATION-DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior, under the Act approved February 25, 1920, 41 Stat. 437, 30 W.P.S.C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, and delegated to the Director of the Geological Survey pursuant to Departmental Order 2365 of October 8, 1947, 43 C.F.R. Sec. 4.611, 12 F.R. 6784, I do hereby:

A. Approve the attached agreement for the development and operation of the Carrizozo Unit Area, State of New Mexico.

B. Certify and determine that the unit plan of development and operation set forth in the attached agreement is necessary and advisable in the public interest and is for the purpose of more properly conserving the natural resources of the unit area.

C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

Dated \_\_\_\_\_

Director, United States  
Geological Survey

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE

CARRIZO UNIT AREA  
LINCOLN AND SOCOHO COUNTIES, NEW MEXICO  
SCHEDULE SHOWING PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS  
INTERESTS IN ALL LANDS IN THE UNIT AREA

EXHIBIT "B"

| Tract No.            | Description - all N.M.P.M. New Mexico   | No. of Acres | Las Cruces Serial No. | % Royalty Payable to U. S. A. | Record Owner of Lease or Application | % of Overriding Royalty Under Option Agreement, Operating Agreement, or Assignment, and Owner | Working Interest Owner and % of Interest          |
|----------------------|---|--------------|-----------------------|-------------------------------|--------------------------------------|---|---|
| <u>FEDERAL LANDS</u> |   |              |                       |                               |                                      |   |   |
| 1                    | Sec. 15 S $\frac{1}{2}$ , Sec. 14 SW $\frac{1}{4}$ , Sec. 21 all, Sec. 22 all, T 6 S, R 9 E;  | 1,760.00     | 064814                | 12 $\frac{1}{2}$ %            | J. Curtis Brown                      | 1%, J. Curtis Brown under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 2                    | Sec. 24 W $\frac{1}{2}$ , Sec. 25 all, Sec. 26 all, Sec. 27 all, T 6 S, R 9 E;  | 2,240.00     | 064822                | 12 $\frac{1}{2}$ %            | William Russell Brown                | 1%, William Russell Brown under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 3                    | Sec. 23 all, T 6 S, R 9 E;  | 640.00       | 064858                | 12 $\frac{1}{2}$ %            | Radford Byerly                       | 1%, Radford Byerly under Operating Agreement  | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 4                    | Sec. 17 S $\frac{1}{2}$ , Sec. 18 SE $\frac{1}{4}$ , Sec. 19 Lot 3, NE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 20 E $\frac{1}{2}$ , NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 29 W $\frac{1}{2}$ , W $\frac{1}{2}$ E $\frac{1}{2}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 30 all, T 6 S, R 9 E;  | 2,372.92     | 064809                | 12 $\frac{1}{2}$ %            | Edwin H. Ellinghausen                | 1%, Edwin H. Ellinghausen under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 5                    | Sec. 34 E $\frac{1}{2}$ W $\frac{1}{2}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 35 all, T 7 S, R 8 E; Sec. 1 all, Sec. 3 Lots 1 & 2 & S $\frac{1}{2}$ NE $\frac{1}{2}$ , SE $\frac{1}{4}$ , Sec. 11 E $\frac{1}{2}$ , Sec. 12 W $\frac{1}{2}$ , T 8 S, R 8 E;   | 2,478.06     | 064820                | 12 $\frac{1}{2}$ %            | J. H. Freeman                        | 1%, J. H. Freeman under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 6                    | Sec. 28 all, Sec. 29 E $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 33 N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 34 S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$ , Sec. 35 S $\frac{1}{2}$ W $\frac{1}{2}$ , S $\frac{1}{2}$ , T 6 S, R 9 E; Sec. 3 N $\frac{1}{2}$ W $\frac{1}{2}$ , T 7 S, R 9 E; | 2,440.00     | 064819                | 12 $\frac{1}{2}$ %            | John F. Heard                        | 1%, John F. Heard under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |

CARRIZO UNIT AREA (CONT'D)

| Tract No. | Description - all N.M.F.M. New Mexico   | No. of Acres | Las Cruces Serial No. | % Royalty Payable to U. S. A. | Record Owner of Lease or Application | % of Overriding Royalty Under Option Agreement, Operating Agreement, or Assignment, and Owner | Working Interest Owner and % of Interest          |
|-----------|---|--------------|-----------------------|-------------------------------|--------------------------------------|---|---|
| 7         | Sec. 25 E $\frac{1}{2}$ SE $\frac{1}{4}$ , T 6 S, R 8 E;<br>Sec. 1 Lots 1, 2, 3, S $\frac{1}{2}$ NE $\frac{1}{4}$ ,<br>W $\frac{1}{2}$ SE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , T 7 S, R 8 E;<br>Sec. 31 all, T 6 S, R 9 E;<br>Sec. 5 all, Sec. 6 all, T 7 S,<br>R 9 E;   | 2,088.79     | 064813                | 12 $\frac{1}{2}$ %            | Robert E. Keeton                     | 1%, Robert E. Keeton<br>under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 8         | Sec. 1 all, Sec. 3 S $\frac{1}{2}$ Sec.<br>10 N $\frac{1}{2}$ , Sec. 11 W $\frac{1}{2}$ , SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ ,<br>S $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 12 N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ ,<br>S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , T 7 S, R 9 E;  | 2,240.00     | 064816                | 12 $\frac{1}{2}$ %            | Baine Kerr                           | 1%, Baine Kerr under<br>Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 9         | Sec. 10 S $\frac{1}{2}$ , Sec. 13 W $\frac{1}{2}$ , Sec. 14<br>all, Sec. 15 all, Sec. 23 S $\frac{1}{2}$ ,<br>S $\frac{1}{2}$ N $\frac{1}{2}$ , NE $\frac{1}{4}$ NE $\frac{1}{4}$ , T 7 S, R 9 E;   | 2,440.00     | 064808                | 12 $\frac{1}{2}$ %            | R. W. McCoy                          | 1%, R. W. McCoy under<br>Operating Agreement  | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 10        | Sec. 11 E $\frac{1}{2}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 12 W $\frac{1}{2}$ ,<br>W $\frac{1}{2}$ E $\frac{1}{2}$ , Sec. 13 all, Sec. 14 NE $\frac{1}{4}$ NE $\frac{1}{4}$ ,<br>S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , T 7 S,<br>R 8 E; Sec. 18 Lots 1, 2, 3 and 4,<br>T 7 S, R 9 E;                | 2,127.40     | 064815                | 12 $\frac{1}{2}$ %            | James W. Mehafy                      | 1%, James W. Mehafy un-<br>der Operating Agreement  | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 11        | Sec. 23 all, Sec. 24 all, Sec.<br>26 W $\frac{1}{2}$ W $\frac{1}{2}$ , Sec. 27 E $\frac{1}{2}$ SE $\frac{1}{4}$ , T 7 S,<br>R 8 E; Sec. 18 E $\frac{1}{2}$ , Sec. 19 all,<br>T 7 S, R 9 E;  | 2,368.72     | 064807                | 12 $\frac{1}{2}$ %            | Sam S. Minter                        | 1%, Sam S. Minter un-<br>der Operating Agreement  | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 12        | Sec. 17 NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ ,<br>Sec. 20 all, Sec. 21 S $\frac{1}{2}$ , S $\frac{1}{2}$ N $\frac{1}{2}$ ,<br>N $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 22 S $\frac{1}{2}$ , S $\frac{1}{2}$ N $\frac{1}{2}$ ,<br>Sec. 26 W $\frac{1}{2}$ , T 7 S, R 9 E; | 2,400.00     | 064818                | 12 $\frac{1}{2}$ %            | James K. Nance                       | 1%, James K. Nance un-<br>der Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |

CARRIZOZO UNIT AREA (CONT'D)

| Tract No. | Description - all N.M.P.M. New Mexico   | No. of Acres | Las Cruces Serial No. | % Royalty Payable to U. S. A. | Record Owner of Lease or Application | % of Overriding Royalty Under Option Agreement, Operating Agreement, or Assignment, and Owner | Working Interest Owner and % of Interest          |
|-----------|---|--------------|-----------------------|-------------------------------|--------------------------------------|---|---|
| 13        | Sec. 27 all, Sec. 28 all, Sec. 33 all (Lots 1, 2, 3, 4, N $\frac{1}{2}$ S $\frac{1}{2}$ , N $\frac{1}{2}$ E $\frac{1}{2}$ ), Sec. 34 Lots 3 & 4, N $\frac{1}{2}$ E $\frac{1}{2}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , T 7 S, R 9 E; Sec. 4 NE $\frac{1}{4}$ , T 8 S, R 9 E; | 2,561.97     | 064810                | 12 $\frac{1}{2}$ %            | Hugh M. Patterson                    | 1%, Hugh M. Patterson under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 14        | Sec. 25 all, Sec. 26 NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$ W $\frac{1}{2}$ , T 7 S, R 8 E; Sec. 29 all, Sec. 30 all (Lots 1, 2, 3, 4, E $\frac{1}{2}$ ), Sec. 31 Lots 1 and 2 (NW $\frac{1}{2}$ ), T 7 S, R 9 E;                            | 2,315.93     | 064812                | 12 $\frac{1}{2}$ %            | Paul Port                            | 1%, Paul Port under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 15        | Sec. 31 Lots 3, 4, 5 and 6, NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , T 7 S, R 9 E; Sec. 4 W $\frac{1}{2}$ , Sec. 5 all, Sec. 6 all (Lots 1, 2, 3 and 4, E $\frac{1}{2}$ ) Sec. 8 N $\frac{1}{2}$ , T 8 S, R 9 E;   | 2,239.66     | 064817                | 12 $\frac{1}{2}$ %            | Garrett R. Tucker, Jr.               | 1%, Garrett R. Tucker, Jr. under Operating Agreement  | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 16        | Sec. 12 E $\frac{1}{2}$ , Sec. 13 all, Sec. 14 E $\frac{1}{2}$ , Sec. 23 NE $\frac{1}{4}$ , Sec. 24 N $\frac{1}{2}$ , T 8 S, R 8 E; Sec. 7 all, T 8 S, R 9 E;   | 2,293.24     | 064811                | 12 $\frac{1}{2}$ %            | A. B. White                          | 1%, A. B. White under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 17        | Sec. 4 W $\frac{1}{2}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , Sec. 7 Lots 1, 2, 3, NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 8 E $\frac{1}{2}$ , NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 9 all, T 7 S, R 9 E;          | 2,154.54     | 064821                | 12 $\frac{1}{2}$ %            | C. H. Wilson                         | 1%, C. H. Wilson under Operating Agreement  | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |
| 18        | Sec. 21 NE $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 22 N $\frac{1}{2}$ W $\frac{1}{2}$ , T 7 S, R 9 E;   | 200.00       | NM 0260               | 12 $\frac{1}{2}$ %            | Robert L. Henry                      | 1%, Robert L. Henry under Operating Agreement   | Standard Oil Company of Texas, 86 $\frac{1}{2}$ % |

CARRIZOZO UNIT AREA (CONT'D)

STATE LANDS

| Tract No. | Description - all N.M.P.M. New Mexico  | No. of Acres | State Lease No. | % Royalty Payable to State of New Mexico | Record Owner of Lease or Application | % of Overriding Royalty Under Option Agreement, Operating Agreement, or Assignment, and Owner | Working Interest Owner and % of Interest          |
|-----------|--|--------------|-----------------|--|--------------------------------------|---|---|
| 19        | Sec. 36 SE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , T 6 S, R 8 E; Sec. 16 N $\frac{1}{2}$ S $\frac{1}{2}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ , T 6 S, R 9 E; Sec. 2 E $\frac{1}{2}$ SE $\frac{1}{4}$ , T 7 S, R 8 E;   | 600.00       | E-889           | 12 $\frac{1}{2}$ %                       | Standard Oil Company of Texas        | None  | Standard Oil Company of Texas, 87 $\frac{1}{2}$ % |
| 20        | Sec. 32 all, Sec. 36 all, T 6 S, R 9 E; Sec. 26 S $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 36 all, T 7 S, R 8 E; Sec. 2 all, Sec. 16 all, Sec. 32 all, T 7 S, R 9 E; Sec. 2 all, T 8 S, R 8 E;  | 4,559.80     | B-11576         | 12 $\frac{1}{2}$ %                       | Standard Oil Company of Texas        | None  | Standard Oil Company of Texas, 87 $\frac{1}{2}$ % |
| 21        | Sec. 16 S $\frac{1}{2}$ SW $\frac{1}{4}$ , T 6 S, R 9 E;   | 80.00        | E-2458          | 12 $\frac{1}{2}$ %                       | Clyde B. Gartner                     | None  | Clyde B. Gartner, 87 $\frac{1}{2}$ %              |
| 22        | Sec. 36 N $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , T 6 S, R 8 E;   | 120.00       | E-2545          | 12 $\frac{1}{2}$ %                       | Darrell C. Williams                  | None  | Darrell C. Williams 87 $\frac{1}{2}$ %            |
| 23        | Sec. 19 Lot 4, S $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 20 S $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 34 N $\frac{1}{2}$ N $\frac{1}{2}$ , Sec. 35 N $\frac{1}{2}$ N $\frac{1}{2}$ , T 6 S, R 9 E; Sec. 33 S $\frac{1}{2}$ SE $\frac{1}{4}$ , T 6 S, R 9 E; Sec. 1 S $\frac{1}{2}$ S $\frac{1}{2}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ , Lot 4, Sec. 12 E $\frac{1}{2}$ E $\frac{1}{2}$ , T 7 S, R 8 E, Sec. 3 S $\frac{1}{2}$ N $\frac{1}{2}$ , Sec. 4 E $\frac{1}{2}$ NE $\frac{1}{4}$ , Sec. 7, S $\frac{1}{2}$ SE $\frac{1}{4}$ , Lot 4, Sec. 8 S $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 11 NE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 12 S $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , Sec. 17 S $\frac{1}{2}$ S $\frac{1}{2}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , Sec. 23 NW $\frac{1}{4}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , T 7 S, R 9 E; | 2,262.06     |                 |  |                                      |   |   |

FREE LANDS

|   |  |      |   |
|---|--|------|---|
| % Royalty Payable to Land or Mineral Owners | Standard Oil Company of Texas  | None | Standard Oil Company of Texas, 87 $\frac{1}{2}$ % |
| 12 $\frac{1}{2}$ %                          | (Owned by Willis R. Lovelace 55%, Willis R. Lovelace, Jr. 15%, Knollin Lovelace 15%, and Leola E. Collinson 15%) |      |   |

CARRIZOZO UNIT AREA (CONT'D)

| Tract No. | Description - all N.M.P.M. New Mexico  | No. of Acres | % Royalty Payable To Land or Mineral Owners | Record Owner of Lease or Application   | % of Overriding Royalty Under Option Agreement, Operating Agreement, or Assignment, and Owner | Working Interest Owner and % of Interest |   |
|-----------|--|--------------|---|--|---|--|---|
| 24        | Sec. 14 NW $\frac{1}{4}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , T 7 S, R 8 E; | 160.00       | 12 $\frac{1}{2}$ %                          | (Owned jointly by Doyle Rentfrow and Mabel Rentfrow)   | Standard Oil Company of Texas   | None                                     | Standard Oil Company of Texas, 87 $\frac{1}{2}$ % |
| 25        | Sec. 14 N $\frac{1}{2}$ SW $\frac{1}{4}$ , T 7 S, R 8 E;   | 80.00        | 12 $\frac{1}{2}$ %                          | (Owned jointly by Doyle Rentfrow, Mabel Rentfrow, Bendette Rentfrow Iadd, Shaler Iadd and Era Hall Rentfrow) | Standard Oil Company of Texas   | None                                     | Standard Oil Company of Texas, 87 $\frac{1}{2}$ % |

RECAPITULATION

ACRES

Federal Lands - - - - - 37,361.23  
 State Lands - - - - - 5,359.80  
 Fee Lands - - - - - 2,502.06

TOTAL NUMBER OF ACRES IN  
 CARRIZOZO UNIT AREA - - - - - 45,223.09