



SCHEDULE XX

| SERIAL NUMBER         | DESCRIPTION | NUMBER OF ACRES | DRILLING BLOCK                                                                                                                                                                                                                      |             | PERCENTAGE COMMITTED | PRESENT ACTIVE PARTICIPATION |
|-----------------------|-------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|------------------------------|
|                       |             |                 | OWNERSHIP                                                                                                                                                                                                                           | PERCENTAGE  |                      |                              |
| SF 079519 (Continued) |             |                 | J. R. Abercrombie                                                                                                                                                                                                                   | 1.456793%   | 1.456793%            |                              |
|                       |             |                 | Lela L. Barkley                                                                                                                                                                                                                     | .728396%    | .728396%             |                              |
|                       |             |                 | John L. Abercrombie                                                                                                                                                                                                                 | .728397%    | .728397%             |                              |
|                       |             |                 | Ralph H. McCullough                                                                                                                                                                                                                 | 1.456793%   | 1.456793%            |                              |
|                       |             |                 | ORRI                                                                                                                                                                                                                                | 4.254687%   | 4.254687%            |                              |
|                       |             |                 | TOTAL                                                                                                                                                                                                                               | 100.000000% | 100.000000%          |                              |
| SF 079519-A           |             |                 | TRACT 4                                                                                                                                                                                                                             | 12.500%     | 12.500%              | 11.616617%                   |
|                       |             |                 | Royalty                                                                                                                                                                                                                             | 65.625%     | 65.625%              |                              |
|                       |             |                 | Working Interest:                                                                                                                                                                                                                   | 21.875%     | 21.875%              |                              |
|                       |             |                 | El Paso Natural Gas Co.                                                                                                                                                                                                             | 100.000%    | 100.000%             |                              |
|                       |             |                 | M. A. Romero, et al                                                                                                                                                                                                                 |             |                      |                              |
|                       |             |                 | TOTAL                                                                                                                                                                                                                               |             |                      |                              |
| SF 079520             |             |                 | TRACT 5                                                                                                                                                                                                                             | 12.500000%  | 12.500000%           | 7.057852%                    |
|                       |             |                 | Royalty                                                                                                                                                                                                                             | 67.948987%  | 67.948987%           |                              |
|                       |             |                 | Working Interest:                                                                                                                                                                                                                   |             |                      |                              |
|                       |             |                 | El Paso Natural Gas Co.                                                                                                                                                                                                             |             |                      |                              |
|                       |             |                 | Evelyn Ellen Wallace & James Algernon Brown, Trustees under the Last Will and Testament of Algernon W. Brown; and Evelyn G. Brown & James A. Brown, Individually Langdon Dewey Harrison, Trustee Robert P. Tinnin J. R. Abercrombie | 4.370379%   | 4.370379%            |                              |
|                       |             |                 |                                                                                                                                                                                                                                     | 1.638892%   | 1.638892%            |                              |
|                       |             |                 |                                                                                                                                                                                                                                     | .546297%    | .546297%             |                              |
|                       |             |                 |                                                                                                                                                                                                                                     | 1.456793%   | 1.456793%            |                              |

Effective January 1, 1979

SCHEDULE XX

| SERIAL NUMBER             | DESCRIPTION                                                  | NUMBER OF ACRES | DRILLING BLOCK                                                                                                                                                                                             |             | PERCENTAGE COMMITTED | PRESENT ACT PARTICIPATI |
|---------------------------|--------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|-------------------------|
|                           |                                                              |                 | OWNERSHIP                                                                                                                                                                                                  | PERCENTAGE  |                      |                         |
| SF 079520 (Continued)     |                                                              |                 | Ralph H. McCullough                                                                                                                                                                                        | 1.456793%   | 1.456793%            |                         |
|                           |                                                              |                 | John L. Abercrombie Estate                                                                                                                                                                                 | .728397%    | .728397%             |                         |
|                           |                                                              |                 | Lela L. Barkley                                                                                                                                                                                            | .728396%    | .728396%             |                         |
|                           |                                                              |                 | H. O. Pool Trust                                                                                                                                                                                           | 4.370379%   | 4.370379%            |                         |
|                           |                                                              |                 | ORRI                                                                                                                                                                                                       | 4.254687%   | 4.254687%            |                         |
|                           |                                                              |                 | TOTAL                                                                                                                                                                                                      | 100.000000% | 100.000000%          |                         |
| SF 079520-A               |                                                              |                 | TRACT 6                                                                                                                                                                                                    |             |                      | 7.379171%               |
|                           | T-28-N, R-5-W                                                | 1209.12         | Royalty                                                                                                                                                                                                    | 12.500%     | 12.500%              |                         |
|                           | Sec. 25: NW/4, W/2 SW/4, W/2 NE/4, SW/4 SE/4, Lots 1,2,3 & 4 |                 | Working Interest: El Paso Natural Gas Co.                                                                                                                                                                  | 65.625%     | 65.625%              |                         |
|                           | Sec. 26: All                                                 |                 | M. A. Romero, et al                                                                                                                                                                                        | 21.875%     | 21.875%              |                         |
|                           |                                                              |                 | TOTAL                                                                                                                                                                                                      | 100.000%    | 100.000%             |                         |
| SF 079521                 |                                                              |                 | TRACT 7                                                                                                                                                                                                    |             |                      | 3.898062%               |
|                           | T-28-N, R-5-W                                                | 638.72          | Royalty                                                                                                                                                                                                    | 12.500000%  | 12.500000%           |                         |
|                           | Sec. 32: Lots 1, 2, 3, 4, N/2 S/2, N/2                       |                 | Working Interest: El Paso Natural Gas Co. Evelyn Ellen Wallace & James Algernon Brown, Trustees under the Last Will and Testament of Algernon W. Brown; and Evelyn G. Brown & James A. Brown, Individually | 67.948987%  | 67.948987%           |                         |
|                           |                                                              |                 | Langdon Dewey Harrison, Trustee                                                                                                                                                                            |             |                      |                         |
|                           |                                                              |                 | Robert P. Tinnin                                                                                                                                                                                           | 4.370379%   | 4.370379%            |                         |
| Effective January 1, 1979 |                                                              |                 | J. R. Abercrombie                                                                                                                                                                                          | 1.638892%   | 1.638892%            |                         |
|                           |                                                              |                 | Ralph H. McCullough                                                                                                                                                                                        | .546297%    | .546297%             |                         |
|                           |                                                              |                 | John L. Abercrombie Estate                                                                                                                                                                                 | 1.456793%   | 1.456793%            |                         |
|                           |                                                              |                 | Lela L. Barkley                                                                                                                                                                                            | 1.456793%   | 1.456793%            |                         |
|                           |                                                              |                 | H. O. Pool Trust                                                                                                                                                                                           | .728397%    | .728397%             |                         |
|                           |                                                              |                 | ORRI                                                                                                                                                                                                       | .728396%    | .728396%             |                         |
|                           |                                                              |                 | TOTAL                                                                                                                                                                                                      | 4.370379%   | 4.370379%            |                         |
|                           |                                                              |                 |                                                                                                                                                                                                            | 4.254687%   | 4.254687%            |                         |
|                           |                                                              |                 |                                                                                                                                                                                                            | 100.000000% | 100.000000%          |                         |

SCHEDULE XX

| SERIAL NUMBER    | DESCRIPTION                                        | NUMBER OF ACRES | DRILLING BLOCK          |            | PERCENTAGE COMMITTED | PRESENT ACTUAL PARTICIPATION |
|------------------|----------------------------------------------------|-----------------|-------------------------|------------|----------------------|------------------------------|
|                  |                                                    |                 | OWNERSHIP               | PERCENTAGE |                      |                              |
| <u>TRACT 8</u>   |                                                    |                 |                         |            |                      |                              |
| SF 079521-A      | T-28-N, R-5-W 1,919.28                             |                 | Royalty                 | 12.500%    | 12.500%              | 11.713226%                   |
|                  | Sec. 28: SE/4 NE/4, SE/4 NW/4, W/2 NW/4, S/2       |                 | Working Interest:       |            |                      |                              |
|                  | Sec. 29: A11                                       |                 | El Paso Natural Gas Co. | 65.625%    | 65.625%              |                              |
|                  | Sec. 30: S/2 S/2                                   |                 | M. A. Romero, et al     | 21.875%    | 21.875%              |                              |
|                  | Sec. 31: Lots 1,2,3,4, N/2 S/2, N/2 (A11)          |                 | TOTAL                   | 100.000%   | 100.000%             |                              |
| <u>TRACT 9</u>   |                                                    |                 |                         |            |                      |                              |
| SF 079522        | T-28-N, R-5-W 1,590.59                             |                 | Royalty                 | 12.50%     | 12.50%               | 9.707255%                    |
|                  | Sec. 21: SW/4 SW/4                                 |                 | Working Interest:       |            |                      |                              |
|                  | Sec. 33: Lots 1,2,3,4, N/2 S/2, E/2 NE/4, W/2 NW/4 |                 | Amoco Production Co.    | 85.00%     | 85.00%               |                              |
|                  | Sec. 34: Lot 2, N/2, N/2 SE/4                      |                 | ORRI                    | 2.50%      | 2.50%                |                              |
|                  | Sec. 35: Lots 1,2,3, NE/4 SE/4, N/2 NE/4           |                 | TOTAL                   | 100.00%    | 100.00%              |                              |
|                  | Sec. 36: Lots 1,2, W/2 NE/4, NW/4                  |                 |                         |            |                      |                              |
| <u>TRACT 9-A</u> |                                                    |                 |                         |            |                      |                              |
| SF 079522-A      | T-28-N, R-5-W 411.57                               |                 | Royalty                 | 12.50%     | 12.50%               | 2.511782%                    |
|                  | Sec. 36: Lots 3,4,5,6, 7,8, N/2 SW/4, NW/4 SE/4    |                 | Working Interest:       |            |                      |                              |
|                  |                                                    |                 | Amoco Production Co.    | 85.00%     | 85.00%               |                              |
|                  |                                                    |                 | ORRI                    | 2.50%      | 2.50%                |                              |
|                  |                                                    |                 | TOTAL                   | 100.00%    | 100.00%              |                              |

Effective January 1, 1979

SCHEDULE XX

| SERIAL NUMBER | DESCRIPTION                                                                      | NUMBER<br>OF ACRES | DRILLING BLOCK                  |            | PERCENTAGE<br>COMMITTED | PRESENT ACTING<br>PARTICIPATION |
|---------------|----------------------------------------------------------------------------------|--------------------|---------------------------------|------------|-------------------------|---------------------------------|
|               |                                                                                  |                    | OWNERSHIP                       | PERCENTAGE |                         |                                 |
| AM 012880     | T-28-N, R-5-W<br>Sec. 21: NE/4 NE/4                                              | 40.00              | <u>TRACT 10</u>                 |            |                         |                                 |
|               |                                                                                  |                    | Royalty                         | 12.50%     | 12.50%                  | <u>.244117%</u>                 |
|               |                                                                                  |                    | Working Interest:               |            |                         |                                 |
|               |                                                                                  |                    | El Paso Natural Gas Co.         | 86.50%     | 86.50%                  |                                 |
|               |                                                                                  |                    | ORRI                            | 1.00%      | 1.00%                   |                                 |
|               |                                                                                  |                    | TOTAL                           | 100.00%    | 100.00%                 |                                 |
| SF 080505     | T-28-N, R-5-W<br>Sec. 30: NW/4                                                   | 160.00             | <u>TRACT 11</u>                 |            |                         |                                 |
|               |                                                                                  |                    | Royalty                         | 12.50%     | 12.50%                  | <u>.976469%</u>                 |
|               |                                                                                  |                    | Working Interest:               |            |                         |                                 |
|               |                                                                                  |                    | El Paso Natural Gas Co.         | 38.75%     | 38.75%                  |                                 |
|               |                                                                                  |                    | T.H. Harrington, et ux          | 38.75%     | 38.75%                  |                                 |
|               |                                                                                  |                    | ORRI                            | 10.00%     | 10.00%                  |                                 |
|               |                                                                                  |                    | TOTAL                           | 100.00%    | 100.00%                 |                                 |
| SF 080505-B   | T-28-N, R-5-W<br>Sec. 19: SW/4                                                   | 160.00             | <u>TRACT 12</u>                 |            |                         |                                 |
|               |                                                                                  |                    | Royalty                         | 12.50%     | 12.50%                  | <u>.976468%</u>                 |
|               |                                                                                  |                    | Working Interest:               |            |                         |                                 |
|               |                                                                                  |                    | El Paso Natural Gas Co.         | 83.50%     | 83.50%                  |                                 |
|               |                                                                                  |                    | ORRI                            | 4.00%      | 4.00%                   |                                 |
|               |                                                                                  |                    | TOTAL                           | 100.00%    | 100.00%                 |                                 |
| SF 080516-B   | T-28-N, R-5-W<br>Sec. 13: W/2 E/2, SW/4,<br>SE/4 NW/4<br>Sec. 15: N/2 SW/4, SE/4 | 600.00             | <u>TRACT 13</u>                 |            |                         |                                 |
|               |                                                                                  |                    | Royalty                         | 12.50%     | 12.50%                  | <u>3.661756%</u>                |
|               |                                                                                  |                    | Working Interest:               |            |                         |                                 |
|               |                                                                                  |                    | American Petrofina Co. of Texas | 87.50%     | 87.50%                  |                                 |
|               |                                                                                  |                    | ORRI                            | .00%       | .00%                    |                                 |
|               |                                                                                  |                    | TOTAL                           | 100.00%    | 100.00%                 |                                 |

Effective January 1, 1979

SCHEDULE XX

| SERIAL NUMBER | DESCRIPTION                                                | NUMBER OF ACRES | DRILLING BLOCK                                       |            | PERCENTAGE COMMITTED | PRESENT ACT PARTICIPATI |
|---------------|------------------------------------------------------------|-----------------|------------------------------------------------------|------------|----------------------|-------------------------|
|               |                                                            |                 | OWNERSHIP                                            | PERCENTAGE |                      |                         |
| SF 080516     | T-28-N, R-5-W                                              | 640.00          |                                                      |            |                      |                         |
|               | Sec. 14: S/2                                               |                 |                                                      | 12.50%     | 12.50%               |                         |
|               | Sec. 16: S/2                                               |                 | Royalty Working Interest:<br>Tom Bolack              | 87.50%     | 87.50%               |                         |
|               |                                                            |                 | ORRI                                                 | .00%       | .00%                 |                         |
|               |                                                            |                 | TOTAL                                                | 100.00%    | 100.00%              | 3.905873%               |
| SF 080516-A   | T-28-N, R-5-W                                              | 1,320.00        |                                                      |            |                      |                         |
|               | Sec. 17: S/2                                               |                 |                                                      | 12.50%     | 12.50%               |                         |
|               | Sec. 18: N/2 S/2,<br>S/2 SE/4,<br>SE/4 SW/4                |                 | Royalty Working Interest:<br>El Paso Natural Gas Co. | 82.50%     | 82.50%               |                         |
|               |                                                            |                 | ORRI                                                 | 5.00%      | 5.00%                |                         |
|               |                                                            |                 | TOTAL                                                | 100.00%    | 100.00%              | 8.055864%               |
| NM 010516     | T-28-N, R-5-W                                              | 565.80          |                                                      |            |                      |                         |
|               | Sec. 7: Lots 1,2,3,<br>4, S/2 S/2<br>(A11)                 |                 |                                                      | 12.50%     | 12.50%               |                         |
|               | Sec. 8: Lots 1,2,3,4,<br>S/2 S/2<br>(A11)                  |                 | Royalty Working Interest:<br>El Paso Natural Gas Co. | 82.50%     | 82.50%               |                         |
|               |                                                            |                 | ORRI                                                 | 5.00%      | 5.00%                |                         |
|               |                                                            |                 | TOTAL                                                | 100.00%    | 100.00%              | 3.453036%               |
| Fee           | T-28-N, R-5-W                                              | 141.17          |                                                      |            |                      |                         |
|               | Sec. 9: Lots 3,4,<br>SE/4 SW/4,<br>SW/4 SE/4,<br>SW/4 SE/4 |                 |                                                      | 10.23%     | 10.23%               |                         |
|               |                                                            |                 | Royalty Working Interest:<br>El Paso Natural Gas Co. | 82.50%     | 82.50%               |                         |
|               |                                                            |                 | ORRI                                                 | 5.00%      | 5.00%                |                         |
|               |                                                            |                 | TOTAL                                                | 97.73%     | 97.73%               | .861550%                |

Effective January 1, 1979

SCHEDULE XX

| SERIAL NUMBER | DESCRIPTION                                                    | NUMBER<br>OF ACRES | DRILLING BLOCK                  |            | PERCENTAGE<br>COMMITTED | PRESENT ACT<br>PARTICIPAT |
|---------------|----------------------------------------------------------------|--------------------|---------------------------------|------------|-------------------------|---------------------------|
|               |                                                                |                    | OWNERSHIP                       | PERCENTAGE |                         |                           |
| Fee           | T-28-N, R-5-W<br>Sec. 22: N/2 NW/4                             | 80.00              | <u>TRACT 18</u>                 |            | 12.50%                  | <u>.488234%</u>           |
|               |                                                                |                    | Royalty                         |            | 12.50%                  |                           |
|               |                                                                |                    | Working Interest:               |            | 87.50%                  |                           |
|               |                                                                |                    | El Paso Natural Gas Co.         |            | .00%                    |                           |
|               |                                                                |                    | ORRI                            |            | <u>100.00%</u>          |                           |
| Fee           | T-28-N, R-5-W<br>Sec. 15: S/2 SW/4                             | 80.00              | <u>TRACT 18-A</u>               |            | 12.50%                  | <u>.488234%</u>           |
|               |                                                                |                    | Royalty                         |            | 12.50%                  |                           |
|               |                                                                |                    | Working Interest:               |            | 87.50%                  |                           |
|               |                                                                |                    | American Petrofina Co. of Texas |            | .00%                    |                           |
|               |                                                                |                    | ORRI                            |            | <u>100.00%</u>          |                           |
| Fee           | T-28-N, R-5-W<br>Sec. 18: SW/4 SW/4<br>Sec. 19: W/2 NW/4       | 120.00             | <u>TRACT 19</u>                 |            | 12.50%                  | <u>.732351%</u>           |
|               |                                                                |                    | Royalty                         |            | 12.50%                  |                           |
|               |                                                                |                    | Working Interest:               |            | 87.50%                  |                           |
|               |                                                                |                    | Amoco Production Co.            |            | .00%                    |                           |
|               |                                                                |                    | ORRI                            |            | <u>100.00%</u>          |                           |
| Fee           | T-28-N, R-5-W<br>Sec. 21: E/2 SW/4,<br>NW/4 SW/4,<br>SW/4 SE/4 | 160.00             | <u>TRACT 20</u>                 |            | 12.50%                  | <u>.976468%</u>           |
|               |                                                                |                    | Royalty                         |            | 12.50%                  |                           |
|               |                                                                |                    | Working Interest:               |            | 87.50%                  |                           |
|               |                                                                |                    | Amoco Production Co.            |            | .00%                    |                           |
|               |                                                                |                    | ORRI                            |            | <u>100.00%</u>          |                           |

Effective

January 1, 1979

SCHEDULE XX

| SERIAL NUMBER | DESCRIPTION                                                                                      | NUMBER<br>OF ACRES | DRILLING BLOCK                                                                       |                                      | PERCENTAGE<br>COMMITTED              | PRESENT ACT<br>PARTICIPATI |
|---------------|--------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|----------------------------|
|               |                                                                                                  |                    | OWNERSHIP                                                                            | PERCENTAGE                           |                                      |                            |
| Fee           | T-28-N, R-5-W 120.00<br>Sec. 25: E/2 SW/4,<br>NW/4 SE/4                                          |                    | TRACT 21<br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL    | 12.50%<br>87.50%<br>.00%<br>100.00%  | 12.50%<br>87.50%<br>.00%<br>100.00%  | .732351%                   |
| Fee           | T-28-N, R-5-W 160.00<br>Sec. 28: N/2 NE/4,<br>SW/4 NE/4,<br>NE/4 NW/4                            |                    | TRACT 22<br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL    | 12.50%<br>87.50%<br>.00%<br>100.00%  | 12.50%<br>87.50%<br>.00%<br>100.00%  | .976468%                   |
| Fee           | T-28-N, R-5-W 329.70<br>Sec. 33: W/2 NE/4,<br>E/2 NW/4<br>Sec. 34: Lots 3,4,<br>N/2 SW/4         |                    | TRACT 23<br>Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>ORRI<br>TOTAL | 12.50%<br>82.50%<br>5.00%<br>100.00% | 12.50%<br>82.50%<br>5.00%<br>100.00% | 2.012135%                  |
| Fee           | T-28-N, R-5-W 296.06<br>Sec. 34: Lot 1<br>Sec. 35: Lot 4,<br>NW/4 SE/4,<br>N/2 SW/4,<br>S/2 NE/4 |                    | TRACT 24<br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL    | 12.50%<br>87.50%<br>.00%<br>100.00%  | 12.50%<br>87.50%<br>.00%<br>100.00%  | 1.806833%                  |

Effective January 1, 1979

SCHEDULE XX

| SERIAL NUMBER   | DESCRIPTION   | NUMBER OF ACRES | DRILLING BLOCK       |            | PERCENTAGE COMMITTED | PRESENT ACTUAL PARTICIPATION |
|-----------------|---------------|-----------------|----------------------|------------|----------------------|------------------------------|
|                 |               |                 | OWNERSHIP            | PERCENTAGE |                      |                              |
| <u>TRACT 25</u> |               |                 |                      |            |                      |                              |
| Fee             | T-28-N, R-5-W | 160.00          | Royalty              |            | 12.50%               | <u>.976468%</u>              |
|                 | Sec. 35: NW/4 |                 | Working Interest:    |            |                      |                              |
|                 |               |                 | Amoco Production Co. |            |                      |                              |
|                 |               |                 | ORRI                 |            |                      |                              |
|                 |               |                 | TOTAL                |            | 100.00%              | 100.00%                      |

Effective January 1, 1979

| SERIAL NUMBER | DESCRIPTION | NUMBER<br>OF ACRES | DRILLING BLOCK |            | PERCENTAGE<br>COMMITTED | PRESENT ACT-<br>PARTICIPATI |
|---------------|-------------|--------------------|----------------|------------|-------------------------|-----------------------------|
|               |             |                    | OWNERSHIP      | PERCENTAGE |                         |                             |

SCHEDULE XX  
NINETEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 28-5 UNIT AREA

RECAPITULATION

Description of Lands in Participating Area:

Township 28 North, Range 5 West, N.M.P.M.  
 Section 10: Lot 4, S/2 SW/4  
 Section 13: W/2 and SE/4  
 Sections 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, 22,  
 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35  
 & 36: ALL  
 Section 23: E/2, NW/4

|                                                        |             |
|--------------------------------------------------------|-------------|
| Total number of acres in Participating Area:           | 16,385.58   |
| Total number of acres committed to Participating Area: | 16,385.58   |
| Percent of Basic Royalty Committed:                    | 99.843525%  |
| Percent of Working Interest Committed:                 | 100.000000% |
| Percent of ORRI Committed:                             | 100.000000% |

Effective January 1, 1979

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 11, 1979

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

Attention: D. N. Canfield

Re: Case No. 553  
San Juan 28-5 Unit  
1979 Drilling Program

Gentlemen:

We hereby approve the 1979 Drilling Program for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Yours very truly,

JOE D. RAMEY  
Director

JDR/LT/fd  
enc.

cc: U.S.G.S. - Roswell  
Commissioner of Public Lands

C  
O  
P  
Y

**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE 915-543-2600

January 4, 1979

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

*Approved*  
*No. 553*

Re: San Juan 28-5 Unit #14-08-001-949  
Rio Arriba County, New Mexico  
1979 DRILLING PROGRAM

Gentlemen:

By letter dated January 20, 1978, El Paso Natural Gas Company, as Unit Operator of the San Juan 28-5 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1978 providing for the drilling of Dakota wells 98 and 101 which have now been drilled and are waiting to be tested.

As of this date, the total number of wells in the San Juan 28-5 Unit is as follows:

|                           |           |
|---------------------------|-----------|
| Pictured Cliffs           | 1         |
| Mesaverde                 | 46        |
| Dual, Mesaverde/Dakota    | 6         |
| Mesaverde, Non-Commercial | 1         |
| Dakota                    | 40        |
| Dakota, Non-Commercial    | 1         |
| Dakota, Waiting on Test   | 2         |
|                           | <u>97</u> |

Pursuant to Section 10 of the San Juan 28-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following wells during the calendar year 1979:

*1979*

| <u>Well No.</u> | <u>Drilling Block</u>                                                                                       | <u>Formation</u> |
|-----------------|-------------------------------------------------------------------------------------------------------------|------------------|
| 12A             | S/2 Section 7, T-28-N, R-5-W                                                                                | Mesaverde        |
| 103             | E/2 Section 23, T-28-N, R-5-W                                                                               | Dakota           |
| 96              | Lots 1, 2 and 3, S/2 SE/4 Section 10<br>and Lot 4, S/2 SW/4, SW/4 SE/4 Sec. 11,<br>T-28-N, R-5-W            | Dakota           |
| 102             | Lots 1, 2 and 3, SE/4 SE/4 Section 11<br>and Lots 3 and 4, S/2 SW/4, SW/4 SE/4<br>Section 12, T-28-N, R-5-W | Dakota           |

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners, believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

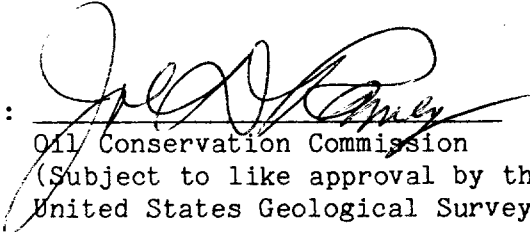
*D N Canfield*

D. N. Canfield  
Director of Land  
Energy Resource Development

DNC:RHN:pw  
Attachments  
San Juan 28-5, 3.0

APPROVED: \_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
(Subject to like approval by the  
Oil Conservation Commission)

DATED: \_\_\_\_\_

APPROVED:  \_\_\_\_\_  
Oil Conservation Commission  
(Subject to like approval by the  
United States Geological Survey)

DATED: 1/11/79

The foregoing approvals are for the 1979 Drilling Program for the San Juan 28-7  
Unit #14-08-001-459, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT  
WORKING INTEREST OWNERS

Mrs. Dorothy Abercrombie

Mr. J. R. Abercrombie

William E. Alsup, Jr., Ancillary Executor  
Estate of William E. Alsup, Deceased

American Petrofina Company of Texas

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Col. Langdon Dewey Harrison

Catherine M. Harvey

Mr. Ralph H. McCullough

Mrs. Catherine B. McElvain

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil and Gas Prop.

Mabelle Miller

Northwest Pipeline Corporation  
Denver, Colorado

Northwest Pipeline Corporation  
Farmington, New Mexico

Phillips Petroleum Company

Mr. H. O. Pool, Trustee of  
The H. O. Pool Trust

Mr. Joe Quinn

Mr. James M. Raymond

Mr. M. A. Romero

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &  
Mr. James A. Brown, Trustees under the  
Last Will and Testament of A. W. Brown

**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

August 1, 1978

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

*no. 553*

Re: San Juan 28-5 Unit #14-08-001-949  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SEVENTEENTH AND EIGHTEENTH  
EXPANDED PARTICIPATING AREAS,  
Dakota Formation, Effective  
November 1, 1977 & December 1, 1977  
Respectively

Gentlemen:

The referenced expansion of the San Juan 28-5 Unit Dakota  
Participating Area was approved by the Regulatory Agencies  
on the following dates:

|                                 |                |
|---------------------------------|----------------|
| United States Geological Survey | July 27, 1978  |
| Oil Conservation Commission     | March 20, 1978 |

Copies of this notice are being sent to the working interest  
owners of the San Juan 28-5 Unit.

Yours very truly,

*RH Nordhausen*

R. H. Nordhausen  
Senior Landman  
Land Department  
Energy Resource Development

RHN:paw  
SJ 28-5 Unit, 4.3

cc: Mr. Antonio Martinez  
Commissioner of Public Lands (information only)

SAN JUAN 28-5 UNIT  
WORKING INTEREST OWNERS

Mrs. Dorothy Abercrombie

Mr. J. R. Abercrombie

William E. Alsup, Jr., Ancillary Executor  
Estate of William E. Alsup, Deceased

American Petrofina Company of Texas

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison

Catherine M. Harvey

Mr. Ralph H. McCullough

Mrs. Catherine B. McElvain  
Individually and as Executrix of the  
Estate of T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. T. H. McElvain, Jr.

Mabelle Miller

Northwest Pipeline Corporation  
Denver, Colorado

Northwest Pipeline Corporation  
Farmington, New Mexico

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &  
Mr. James A. Brown, Trustees under the  
Last Will and Testament of A. W. Brown



# United States Department of the Interior

## GEOLOGICAL SURVEY

P. O. Box 26124  
Albuquerque, New Mexico 87125

JUL 21 1978

JUL 27 1978

El Paso Natural Gas Company  
Attention: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79978

*No. 553*

Gentlemen:

Your application of February 27, 1978, requesting approval of the seventeenth and eighteenth revisions of the Dakota participating area for the San Juan 23-5 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-949, was approved on the date above by the Oil and Gas Supervisor, U. S. Geological Survey, effective as of November 1, 1977 and December 1, 1977 respectively.

The seventeenth revision adds 369.12 acres described as the E $\frac{1}{2}$  sec. 25, T. 28 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 14,633.77 acres and is based on the completion of unit well No. 94 located in the SE $\frac{1}{4}$  of said sec. 25. Such well was completed November 22, 1977, on an after frac gauge at the rate of 916 MCF of gas per day from the Dakota interval 8,185 to 8,374 feet.

The eighteenth revision adds 800.00 acres described as the E $\frac{1}{2}$  sec. 14, and the E $\frac{1}{2}$  and the NW $\frac{1}{4}$  sec. 23, T. 28 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 15,433.77 acres and is based on the completion and production of unit well No. 97 located in the NE $\frac{1}{4}$  sec. 14. Such well was completed December 8, 1977, on an after frac gauge at the rate of 646 MCF of gas per day from the Dakota interval 8,517 to 8,596 feet.

Copies of the approved application are being distributed to the appropriate Federal offices and three approved copies are returned herewith. You are requested to furnish the State of New Mexico and all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Oil and Gas Supervisor, SOMA

Enclosures (3)

cc: BLM, Santa Fe (ltr. only)  
cc: BLM, Santa Fe (ltr. only) *for this copy for*

April 20, 1978

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

*No. 553*

Gentlemen:

The 1978 Drilling Programs for the below listed units were approved by the regulatory bodies on the dates indicated:

| <u>Unit</u>   | <u>USGS</u> | <u>CPL</u> | <u>OCC</u> |
|---------------|-------------|------------|------------|
| San Juan 28-5 | 2-3-78      | N/A        | 1-26-78    |
| San Juan 28-7 | 2-3-78      | 1-25-78    | 1-26-78    |
| San Juan 29-7 | 3-6-78      | 1-19-78    | 1-17-78    |
| San Juan 30-6 | 1-27-78     | 1-19-78    | 1-17-78    |
| San Juan 32-9 | 1-27-78     | 1-19-78    | 2-8-78     |
| Canyon Largo  | 3-6-78      | 1-19-78    | 1-17-78    |
| Rincon        | 1-31-78     | 1-19-78    | 1-16-78    |

Copies of this letter are being sent to the working interest owners of the above units.

Very truly yours,

*RH Nordhausen*

R. H. Nordhausen  
Senior Landman  
Land Department  
Energy Resource Development

RHN:paw  
SJ 28-5, 3.0; SJ 28-7, 3.0; SJ 29-7, 3.0;  
SJ 30-6, 3.0; SJ 32-9, 3.0; Canyon Largo 3.0;  
Rincon, 3.0

SAN JUAN 28-5 UNIT  
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,  
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

Mrs. Catherine B. McElvain,  
Individually and as Executrix of  
the Estate of T. H. McElvain, Deceased

Mr. James E. McElvain, Executor  
for the Estate of Carl R. McElvain,  
Deceased

Mr. J. William McElvain

Mr. T. H. McElvain, Jr.

Mabelle Miller

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary  
Guardian of the Estate of John L.  
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.  
James A. Brown, Trustees under  
the Last Will and Testament of  
A. W. Brown

Northwest Pipeline Corporation

Phillips Petroleum Company

**OIL CONSERVATION COMMISSION**

**P. O. BOX 2088**

**SANTA FE, NEW MEXICO 87501**

**March 20, 1978**

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978**

**Attention: James R. Permenter**

**Re: Case No. 553  
San Juan 28-5 Unit  
Seventeenth and Eighteenth  
Expanded Participating  
Areas, Dakota Formation**

**Gentlemen:**

**We hereby approve the Seventeenth and Eighteenth  
Expanded Participating Areas for the Dakota Formation for  
the San Juan 28-5 Unit, Rio Arriba County, New Mexico,  
subject to like approval by the United States Geological  
Survey and the Commissioner of Public Lands.**

**One approved copy of the Expanded Participating  
Areas is returned herewith.**

**Very truly yours,**

**JOE D. RAMEY  
Secretary-Director**

**JDR/LT/fd  
enc.**

**cc: U.S.G.S. - Roswell  
Commissioner of Public Lands**

March 13, 1978

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

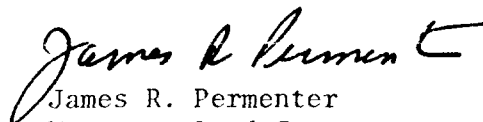
*No. 55*

Re: San Juan 28-5 Unit #14-08-001-949  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SEVENTEENTH AND EIGHTEENTH  
EXPANDED PARTICIPATING AREAS,  
Dakota Formation, Effective  
November 1, 1977 & December 1, 1977  
Respectively

Gentlemen:

On page one of our letter of February 27, 1978 requesting approval of the captioned expansions, we stated that the E/2 of Section 25, Township 28 North, Range 5 West comprises 320.00 whereas it actually comprises 369.12 acres. Please make the indicated correction on your copy of said letter.

Very truly yours,

  
James R. Permenter  
Manager, Land Contracts  
and Titles  
Land Department  
Energy Resource Development

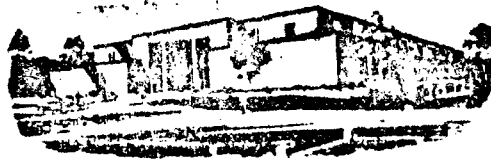
JRP/sf

SJ 28-5 Unit 4.0

cc: Mr. Antonio Martinez  
Commissioner of Public Lands (information only)



# State of New Mexico



RECEIVED

MAR 3 1978

Oil Conservation Commission

## Commissioner of Public Lands

March 3, 1978

PHIL R. LUCERO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

7-552  
Re: San Juan 28-5 Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SEVENTEENTH AND EIGHTEENTH  
EXPANDED PARTICIPATING AREAS,  
Dakota Formation, Effective  
November 1, 1977 & December 1, 1977,  
respectively

ATTENTION: Mr. James R. Permenter

Gentlemen:

We are in receipt of one copy of the application for approval of the Seventeenth and Eighteenth Expanded Participating Areas, for the Dakota Formation, for the San Juan 28-5 Unit, effective November 1, 1977 and December 1, 1977, respectively.

Since this unit has no State of New Mexico lands, we have this date filed it for record purposes.

We are retaining the one copy for our files.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s

cc: OCC-Santa Fe, New Mexico  
USGS-Roswell, New Mexico  
USGS-Albuquerque, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 1, 1978

Mr. James R. Permenter  
El Paso Natural Gas Co.  
P. O. Box 1492  
El Paso, Texas 79978

Re: Case No. 553  
San Juan 28-5 Unit,  
Seventeenth and Eighteenth  
Expanded Participating  
Areas, Dakota Formation

Dear Mr. Permenter:

In your application for approval of the above-referenced expansions, you stated that the E/2 of Section 25, Township 28 North, Range 5 West, comprises 320 acres. I believe it actually comprises 369.12 acres. Do you wish to amend your application?

Very truly yours,

(Ms.) LYNN TESCHENDORF  
General Counsel

LT/dr

cc: Regional Oil & Gas Supervisor  
U. S. Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico 88201

**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

February 27, 1978

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

*Mr. [unclear]  
Approved*

Re: San Juan 28-5 Unit #14-08-001-949  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SEVENTEENTH AND EIGHTEENTH  
EXPANDED PARTICIPATING AREAS,  
Dakota Formation, Effective  
November 1, 1977 & December 1, 1977  
Respectively

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-5 Unit Agreement, #14-08-001-949, approved August 25, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation, to wit:

SEVENTEENTH EXPANDED PARTICIPATING AREA - Effective November 1, 1977

Description of Lands

Acres

Township 28 North, Range 5 West, NMPM  
Section 25: E/2

320.00

The proposed Seventeenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 28-5 Unit #94 Well is capable of producing unitized substances in paying quantities from the Dakota Formation.

EIGHTEENTH EXPANDED PARTICIPATING AREA - Effective December 1, 1977

| <u>Description of Lands</u>           | <u>Acres</u> |
|---------------------------------------|--------------|
| Township 28 North, Range 5 West, NMPM |              |
| Section 14: E/2                       |              |
| Section 23: E/2, NW/4                 | 800.00       |

The proposed Eighteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company as Unit Operator, that the San Juan 28-5 Unit #97 Well is capable of producing unitized substances in paying quantities from the Dakota Formation.

In support of this application, the following listed Exhibits are made a part hereof:

EXHIBIT "A" - Ownership map reflecting the boundaries of the unit and the Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "B" - Geological Report on the Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "C" - Figure No. 1: San Juan 28-5 Dakota Structure Map  
Figure No. 2: San Juan 28-5 Dakota Isopach Map

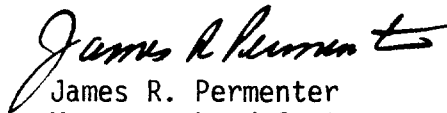
EXHIBIT "D" - Schedule of Dakota Gas Production

Attached hereto are Schedules XVIII and XIX that show the proposed Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation in the San Juan 28-5 Unit Area. Each schedule describes the pertinent Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in each tract.

If these Expanded Participating Areas for the Dakota Formation meet with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

Copies of this letter are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,



James R. Permenter  
Manager, Land Contracts  
and Titles  
Land Department  
Energy Resource Development

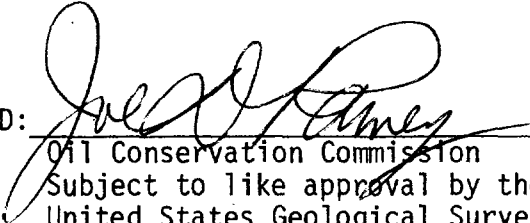
JRP:sas

SJ 28-5 Unit 4.3

cc: Mr. Antonio Martinez

Commissioner of Public Lands (information only)

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Oil Conservation Commission

APPROVED:  \_\_\_\_\_ DATE: 3/20/78  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey

The foregoing approvals are for the Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation, San Juan 28-5 Unit #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT  
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,  
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

Mrs. Catherine B. McElvain,  
Individually and as Executrix of  
the Estate of T. H. McElvain, Deceased

Mr. James E. McElvain, Executor  
for the Estate of Carl R. McElvain,  
Deceased

Mr. J. William McElvain

Mr. T. H. McElvain, Jr.

Mabelle Miller

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary  
Guardian of the Estate of John L.  
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.  
James A. Brown, Trustees under  
the Last Will and Testament of  
A. W. Brown

## UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 28-5 UNIT AREA

| SERIAL NUMBER | DESCRIPTION                         | NUMBER<br>OF ACRES | DRILLING BLOCK                                                                                                                                                                                                                                                                                        |            | PERCENTAGE<br>COMMITTED | PRESENT A<br>PARTICIP |
|---------------|-------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|-----------------------|
|               |                                     |                    | OWNERSHIP                                                                                                                                                                                                                                                                                             | PERCENTAGE |                         |                       |
| SF 079250     | T-28-N, R-5-W                       | 1,691.76           |                                                                                                                                                                                                                                                                                                       |            |                         |                       |
|               | Sec. 9: Lots 1,2, SE/4<br>SW/4 SW/4 |                    | Royalty<br>Working Interest:<br>El Paso Natural Gas Co.                                                                                                                                                                                                                                               | 12.50%     | 12.50%                  | 11.560657%            |
|               | Sec. 10: Lot 4, S/2 SW/4            |                    |                                                                                                                                                                                                                                                                                                       | 82.50%     | 82.50%                  |                       |
|               | Sec. 14: NW/4                       |                    |                                                                                                                                                                                                                                                                                                       | 5.00%      | 5.00%                   |                       |
|               | Sec. 15: N/2                        |                    |                                                                                                                                                                                                                                                                                                       | 100.00%    | 100.00%                 |                       |
|               | Sec. 16: N/2                        |                    |                                                                                                                                                                                                                                                                                                       |            |                         |                       |
| SF 079472     | Sec. 17: N/2                        |                    | ORRI                                                                                                                                                                                                                                                                                                  |            |                         |                       |
|               | Sec. 18: N/2                        |                    | TOTAL                                                                                                                                                                                                                                                                                                 |            |                         |                       |
|               | T-28-N, R-5-W                       | 320.00             |                                                                                                                                                                                                                                                                                                       |            |                         |                       |
|               | Sec. 30: NE/4,<br>N/2 S/2           |                    | Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>ORRI                                                                                                                                                                                                                                       | 12.50%     | 12.50%                  | 2.186723%             |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       | 82.50%     | 82.50%                  |                       |
|               |                                     |                    | TOTAL                                                                                                                                                                                                                                                                                                 | 5.00%      | 5.00%                   |                       |
| SF 079519     | T-28-N, R-5-W                       | 80.00              |                                                                                                                                                                                                                                                                                                       |            |                         |                       |
|               | Sec. 24: N/2 NW/4                   |                    |                                                                                                                                                                                                                                                                                                       |            |                         |                       |
|               |                                     |                    | Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>Langdon Dewey Harrison, Trustee<br>R. P. Tinnin<br>H. O. Pool<br>Evelyn Ellen Wallace and James<br>A. Brown, Trustees under the<br>Last Will and Testament of<br>Algernon Brown; and Evelyn<br>G. Brown and James A. Brown<br>Individually | 12.500000% | 12.500000%              | .546681%              |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       | 67.948987% | 67.948987%              |                       |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       | 1.638892%  | 1.638892%               |                       |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       | .546297%   | .546297%                |                       |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       | 4.370379%  | 4.370379%               |                       |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       |            |                         |                       |
|               |                                     |                    |                                                                                                                                                                                                                                                                                                       | 4.370379%  | 4.370379%               |                       |

Effective

November 1, 1977

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XVIII

| SERIAL NUMBER         | DESCRIPTION                  | NUMBER OF ACRES | DRILLING BLOCK                  |             | PERCENTAGE COMMITTED | PRESENT AND PARTICIPATING |
|-----------------------|------------------------------|-----------------|---------------------------------|-------------|----------------------|---------------------------|
|                       |                              |                 | OWNERSHIP                       | PERCENTAGE  |                      |                           |
| SF 079519 (Continued) |                              |                 |                                 |             |                      |                           |
| SF 079519-A           | T-28-N, R-5-W                | 1,280.00        | J. R. Abercrombie               | 1.456793%   | 1.456793%            | 8.746892%                 |
|                       | Sec. 20: E/2                 |                 | Lela L. Barkley                 | .728396%    | .728396%             |                           |
|                       | Sec. 21: NW/4 NE/4,          |                 | John L. Abercrombie             | .728397%    | .728397%             |                           |
|                       | S/2 NE/4,                    |                 | Ralph H. McCullough             | 1.456793%   | 1.456793%            |                           |
|                       | NW/4, N/2 SE/4,              |                 | ORRI                            | 4.254687%   | 4.254687%            |                           |
|                       | SE/4 SE/4                    |                 | TOTAL                           | 100.000000% | 100.000000%          |                           |
|                       | Sec. 22: SW/4, S/2 NW/4, E/2 |                 | TRACT 4                         |             |                      |                           |
|                       |                              |                 | Royalty                         | 12.500%     | 12.500%              |                           |
|                       |                              |                 | Working Interest:               | 65.625%     | 65.625%              |                           |
|                       |                              |                 | El Paso Natural Gas Co.         | 21.875%     | 21.875%              |                           |
| SF 079520             | T-28-N, R-5-W                | 880.00          | M. A. Romero, et al             | 100.000%    | 100.000%             | 6.013488%                 |
|                       | Sec. 27: All                 |                 | TOTAL                           |             |                      |                           |
|                       | Sec. 24: S/2 NW/4,           |                 | TRACT 5                         |             |                      |                           |
|                       | SW/4                         |                 | Royalty                         | 12.500000%  | 12.500000%           |                           |
|                       |                              |                 | Working Interest:               | 67.948987%  | 67.948987%           |                           |
|                       |                              |                 | El Paso Natural Gas Co.         |             |                      |                           |
|                       |                              |                 | Evelyn Ellen Wallace &          |             |                      |                           |
|                       |                              |                 | James Algernon Brown,           |             |                      |                           |
|                       |                              |                 | Trustees under the Last         |             |                      |                           |
|                       |                              |                 | Will and Testament of           |             |                      |                           |
|                       |                              |                 | Algernon W. Brown; and          | 4.370379%   | 4.370379%            |                           |
|                       |                              |                 | Evelyn G. Brown & James A.      | 1.638892%   | 1.638892%            |                           |
|                       |                              |                 | Brown, Individually             | .546297%    | .546297%             |                           |
|                       |                              |                 | Langdon Dewey Harrison, Trustee | 1.456793%   | 1.456793%            |                           |
|                       |                              |                 | Robert P. Tinnin                |             |                      |                           |
|                       |                              |                 | J. R. Abercrombie               |             |                      |                           |
|                       |                              |                 |                                 |             |                      |                           |
|                       |                              |                 |                                 |             |                      |                           |
|                       |                              |                 |                                 |             |                      |                           |
|                       |                              |                 |                                 |             |                      |                           |

Effective November 1, 1977

SCHEDULE XVIII

| SERIAL NUMBER         | DESCRIPTION | NUMBER<br>OF ACRES | DRILLING BLOCK                                                                                                                                                                                                                                                                                                                                       |             | PERCENTAGE<br>COMMITTED | PRESENT A<br>PARTICIPA |
|-----------------------|-------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|------------------------|
|                       |             |                    | OWNERSHIP                                                                                                                                                                                                                                                                                                                                            | PERCENTAGE  |                         |                        |
| SF 079520 (Continued) |             |                    | Ralph H. McCullough                                                                                                                                                                                                                                                                                                                                  | 1.456793%   | 1.456793%               |                        |
|                       |             |                    | John L. Abercrombie Estate                                                                                                                                                                                                                                                                                                                           | .728397%    | .728397%                |                        |
|                       |             |                    | Lela L. Barkley                                                                                                                                                                                                                                                                                                                                      | .728396%    | .728396%                |                        |
|                       |             |                    | H. O. Pool                                                                                                                                                                                                                                                                                                                                           | 4.370379%   | 4.370379%               |                        |
|                       |             |                    | ORRI                                                                                                                                                                                                                                                                                                                                                 | 4.254687%   | 4.254687%               |                        |
|                       |             |                    | TOTAL                                                                                                                                                                                                                                                                                                                                                | 100.000000% | 100.000000%             |                        |
| SF 079520-A           |             |                    | TRACT 6                                                                                                                                                                                                                                                                                                                                              |             |                         | 8.262532%              |
|                       |             |                    | Royalty                                                                                                                                                                                                                                                                                                                                              | 12.500%     | 12.500%                 |                        |
|                       |             |                    | Working Interest:                                                                                                                                                                                                                                                                                                                                    | 65.625%     | 65.625%                 |                        |
|                       |             |                    | El Paso Natural Gas Co.                                                                                                                                                                                                                                                                                                                              | 21.875%     | 21.875%                 |                        |
|                       |             |                    | M. A. Romero, et al                                                                                                                                                                                                                                                                                                                                  | 100.000%    | 100.000%                |                        |
|                       |             |                    | TOTAL                                                                                                                                                                                                                                                                                                                                                |             |                         |                        |
| SF 079521             |             |                    | TRACT 7                                                                                                                                                                                                                                                                                                                                              |             |                         | 4.364699%              |
|                       |             |                    | Royalty                                                                                                                                                                                                                                                                                                                                              | 12.500000%  | 12.500000%              |                        |
|                       |             |                    | Working Interest:                                                                                                                                                                                                                                                                                                                                    | 67.948987%  | 67.948987%              |                        |
|                       |             |                    | El Paso Natural Gas Co.                                                                                                                                                                                                                                                                                                                              |             |                         |                        |
|                       |             |                    | Evelyn Ellen Wallace &<br>James Algernon Brown,<br>Trustees under the Last<br>Will and Testament of<br>Algernon W. Brown; and<br>Evelyn G. Brown & James A.<br>Brown, Individually<br>Langdon Dewey Harrison, Trustee<br>Robert P. Tinnin<br>J. R. Abercrombie<br>Ralph H. McCullough<br>John L. Abercrombie Estate<br>Lela L. Barkley<br>H. O. Pool | 4.370379%   | 4.370379%               |                        |
|                       |             |                    | TOTAL                                                                                                                                                                                                                                                                                                                                                | 100.000000% | 100.000000%             |                        |

SCHEDULE XVIII

| SERIAL NUMBER | DESCRIPTION                                        | NUMBER OF ACRES | DRILLING BLOCK                                                                                                |                 | PERCENTAGE COMMITTED | PRESENT AC<br>PARTICIPAT |
|---------------|----------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------|-----------------|----------------------|--------------------------|
|               |                                                    |                 | OWNERSHIP                                                                                                     | PERCENTAGE      |                      |                          |
| F 079521-A    | T-28-N, R-5-W                                      | 1,919.28        | <u>TRACT 8</u><br><br>Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>M. A. Romero, et al<br>TOTAL | 12.500%         | 12.500%              | <u>13.1115417%</u>       |
|               | Sec. 28: SE/4 NE/4, SE/4 NW/4, S/2 W/2 NW/4, S/2   |                 |                                                                                                               | 65.625%         | 65.625%              |                          |
|               | Sec. 29: A11                                       |                 |                                                                                                               | 21.875%         | 21.875%              |                          |
|               | Sec. 30: S/2 S/2                                   |                 |                                                                                                               | <u>100.000%</u> | <u>100.000%</u>      |                          |
|               | Sec. 31: Lots 1,2,3,4, N/2 S/2, N/2 (A11)          |                 |                                                                                                               |                 |                      |                          |
| F 079522      | T-28-N, R-5-W                                      | 1,590.59        | <u>TRACT 9</u><br><br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL                   | 12.50%          | 12.50%               | <u>10.869311%</u>        |
|               | Sec. 21: SW/4 SW/4                                 |                 |                                                                                                               | 85.00%          | 85.00%               |                          |
|               | Sec. 33: Lots 1,2,3,4, N/2 S/2, E/2 NE/4, W/2 NW/4 |                 |                                                                                                               | <u>2.50%</u>    | <u>2.50%</u>         |                          |
|               | Sec. 34: Lot 2, N/2, N/2 SE/4                      |                 |                                                                                                               | <u>100.00%</u>  | <u>100.00%</u>       |                          |
|               | Sec. 35: Lots 1,2,3, NE/4 SE/4, N/2 NE/4           |                 |                                                                                                               |                 |                      |                          |
| F 079522-A    | T-28-N, R-5-W                                      | 411.57          | <u>TRACT 9-A</u><br><br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL                 | 12.50%          | 12.50%               | <u>2.812467%</u>         |
|               | Sec. 36: Lots 3,4,5,6, 7,8, N/2 SW/4, NW/4 SE/4    |                 |                                                                                                               | 85.00%          | 85.00%               |                          |
|               |                                                    |                 |                                                                                                               | <u>2.50%</u>    | <u>2.50%</u>         |                          |
|               |                                                    |                 |                                                                                                               | <u>100.00%</u>  | <u>100.00%</u>       |                          |
|               |                                                    |                 |                                                                                                               |                 |                      |                          |

Effective November 1, 1977

SCHEDULE XVIII

| SERIAL NUMBER | DESCRIPTION                                                                            | NUMBER OF ACRES | DRILLING BLOCK  |                                                 | PERCENTAGE COMMITTED | PRESENT ACTUAL PARTICIPATION |
|---------------|----------------------------------------------------------------------------------------|-----------------|-----------------|-------------------------------------------------|----------------------|------------------------------|
|               |                                                                                        |                 | OWNERSHIP       | PERCENTAGE                                      |                      |                              |
| 012880        | T-28-N, R-5-W<br>Sec. 21: NE/4 NE/4                                                    | 40.00           | <u>TRACT 10</u> |                                                 | 12.50%               | .273340%                     |
|               | Royalty Working Interest:<br>El Paso Natural Gas Co.<br>ORRI                           |                 |                 | 12.50%<br>86.50%<br>1.00%<br>100.00%            |                      |                              |
|               | TOTAL                                                                                  |                 |                 |                                                 |                      |                              |
| 080505        | T-28-N, R-5-W<br>Sec. 30: NW/4                                                         | 160.00          | <u>TRACT 11</u> |                                                 | 12.50%               | 1.093362%                    |
|               | Royalty Working Interest:<br>El Paso Natural Gas Co.<br>T.H. Harrington, et ux<br>ORRI |                 |                 | 12.50%<br>38.75%<br>38.75%<br>10.00%<br>100.00% |                      |                              |
|               | TOTAL                                                                                  |                 |                 |                                                 |                      |                              |
| 080505-B      | T-28-N, R-5-W<br>Sec. 19: SW/4                                                         | 160.00          | <u>TRACT 12</u> |                                                 | 12.50%               | 1.093362%                    |
|               | Royalty Working Interest:<br>El Paso Natural Gas Co.<br>ORRI                           |                 |                 | 12.50%<br>83.50%<br>4.00%<br>100.00%            |                      |                              |
|               | TOTAL                                                                                  |                 |                 |                                                 |                      |                              |
| 080516-B      | T-28-N, R-5-W<br>Sec. 15: N/2 SW/4, SE/4                                               | 240.00          | <u>TRACT 13</u> |                                                 | 12.50%               | 1.640042%                    |
|               | Royalty Working Interest:<br>American Petrofina Co. of Texas<br>ORRI                   |                 |                 | 12.50%<br>87.50%<br>.00%<br>100.00%             |                      |                              |
|               | TOTAL                                                                                  |                 |                 |                                                 |                      |                              |

Effective November 1, 1977

SCHEDULE XVIII

| SERIAL NUMBER | DESCRIPTION                                       | NUMBER OF ACRES | DRILLING BLOCK                                    |            | PERCENTAGE COMMITTED | PRESENT ACTUAL PARTICIPATION |
|---------------|---------------------------------------------------|-----------------|---------------------------------------------------|------------|----------------------|------------------------------|
|               |                                                   |                 | OWNERSHIP                                         | PERCENTAGE |                      |                              |
| 080516        | T-28-N, R-5-W                                     | 480.00          |                                                   |            |                      |                              |
|               | Sec. 14: SW/4                                     |                 | Royalty Working Interest: Tom Bolack              | 12.50%     | 12.50%               |                              |
|               | Sec. 16: S/2                                      |                 | ORRI                                              | 87.50%     | 87.50%               |                              |
|               |                                                   |                 | TOTAL                                             | 100.00%    | 100.00%              | 3.280084%                    |
| 080516-A      | T-28-N, R-5-W                                     | 1,320.00        |                                                   |            |                      |                              |
|               | Sec. 17: S/2                                      |                 | Royalty Working Interest: El Paso Natural Gas Co. | 12.50%     | 12.50%               |                              |
|               | Sec. 18: N/2 S/2, S/2 SE/4, SE/4 SW/4             |                 | ORRI                                              | 82.50%     | 82.50%               |                              |
|               | Sec. 19: E/2, E/2 NW/4                            |                 | TOTAL                                             | 5.00%      | 5.00%                |                              |
|               | Sec. 20: W/2                                      |                 |                                                   | 100.00%    | 100.00%              | 9.020232%                    |
| 010516        | T-28-N, R-5-W                                     | 565.80          |                                                   |            |                      |                              |
|               | Sec. 7: Lots 1,2,3, 4, S/2 S/2 (A11)              |                 | Royalty Working Interest: El Paso Natural Gas Co. | 12.50%     | 12.50%               |                              |
|               | Sec. 8: Lots 1,2,3,4, S/2 S/2 (A11)               |                 | ORRI                                              | 82.50%     | 82.50%               |                              |
|               |                                                   |                 | TOTAL                                             | 5.00%      | 5.00%                |                              |
|               |                                                   |                 |                                                   | 100.00%    | 100.00%              | 3.866399%                    |
| e             | T-28-N, R-5-W                                     | 141.17          |                                                   |            |                      |                              |
|               | Sec. 9: Lots 3,4, SE/4 SW/4, SW/4 SE/4, SW/4 SE/4 |                 | Royalty Working Interest: El Paso Natural Gas Co. | 12.50%     | 10.23%               |                              |
|               |                                                   |                 | ORRI                                              | 82.50%     | 82.50%               |                              |
|               |                                                   |                 | TOTAL                                             | 5.00%      | 5.00%                |                              |
|               |                                                   |                 |                                                   | 100.00%    | 97.73%               | .964686%                     |

Effective November 1, 1977

SCHEDULE XVIII

| TRACT NUMBER | DESCRIPTION                     | NUMBER OF ACRES | DRILLING BLOCK |            | PERCENTAGE COMMITTED | PRESENT ACTUAL PARTICIPATION |
|--------------|---------------------------------|-----------------|----------------|------------|----------------------|------------------------------|
|              |                                 |                 | OWNERSHIP      | PERCENTAGE |                      |                              |
| a            | T-28-N, R-5-W                   | 80.00           |                |            |                      |                              |
|              | Sec. 22: N/2 NW/4               |                 |                |            |                      |                              |
|              | Royalty                         |                 |                | 12.50%     | 12.50%               | .546681%                     |
|              | Working Interest:               |                 |                |            |                      |                              |
|              | El Paso Natural Gas Co.         |                 |                | 87.50%     | 87.50%               |                              |
| a            | T-28-N, R-5-W                   | 80.00           |                |            |                      |                              |
|              | Sec. 15: S/2 SW/4               |                 |                |            |                      |                              |
|              | Royalty                         |                 |                | 12.50%     | 12.50%               | .546681%                     |
|              | Working Interest:               |                 |                |            |                      |                              |
|              | American Petrofina Co. of Texas |                 |                | 87.50%     | 87.50%               |                              |
| e            | T-28-N, R-5-W                   | 120.00          |                |            |                      |                              |
|              | Sec. 18: SW/4 SW/4              |                 |                |            |                      |                              |
|              | Sec. 19: W/2 NW/4               |                 |                |            |                      |                              |
|              | Royalty                         |                 |                | 12.50%     | 12.50%               | .820021%                     |
|              | Working Interest:               |                 |                |            |                      |                              |
| e            | T-28-N, R-5-W                   | 160.00          |                |            |                      |                              |
|              | Sec. 21: E/2 SW/4,              |                 |                |            |                      |                              |
|              | NW/4 SW/4,                      |                 |                |            |                      |                              |
|              | SW/4 SE/4                       |                 |                |            |                      |                              |
|              | Royalty                         |                 |                | 12.50%     | 12.50%               | 1.0933362%                   |

Effective November 1, 1977

NIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN  
Form 21-71 (2-72)

SCHEDULE XVIII

| TRACT NUMBER | DESCRIPTION                                                                               | NUMBER OF ACRES | DRILLING BLOCK |                            | PERCENTAGE COMMITTED       | PRESENT ACTUAL PARTICIPATION |
|--------------|-------------------------------------------------------------------------------------------|-----------------|----------------|----------------------------|----------------------------|------------------------------|
|              |                                                                                           |                 | OWNERSHIP      | PERCENTAGE                 |                            |                              |
| 3            | T-28-N, R-5-W<br>Sec. 25: E/2 SW/4,<br>NW/4 SE/4                                          | 120.00          |                | 12.50%                     | 12.50%                     | .820021%                     |
|              | Royalty Working Interest:<br>Amoco Production Co.<br>ORRI                                 |                 |                | 87.50%<br>.00%<br>100.00%  | 87.50%<br>.00%<br>100.00%  |                              |
|              | TOTAL                                                                                     |                 |                |                            |                            |                              |
|              | TRACT 21                                                                                  |                 |                |                            |                            |                              |
| 3            | T-28-N, R-5-W<br>Sec. 28: N/2 NE/4,<br>SW/4 NE/4,<br>NE/4 NW/4                            | 160.00          |                | 12.50%                     | 12.50%                     | 1.093362%                    |
|              | Royalty Working Interest:<br>Amoco Production Co.<br>ORRI                                 |                 |                | 87.50%<br>.00%<br>100.00%  | 87.50%<br>.00%<br>100.00%  |                              |
|              | TOTAL                                                                                     |                 |                |                            |                            |                              |
|              | TRACT 22                                                                                  |                 |                |                            |                            |                              |
| 3            | T-28-N, R-5-W<br>Sec. 33: W/2 NE/4,<br>E/2 NW/4<br>Sec. 34: Lots 3,4,<br>N/2 SW/4         | 329.70          |                | 12.50%                     | 12.50%                     | 2.253008%                    |
|              | Royalty Working Interest:<br>El Paso Natural Gas Co.<br>ORRI                              |                 |                | 82.50%<br>5.00%<br>100.00% | 82.50%<br>5.00%<br>100.00% |                              |
|              | TOTAL                                                                                     |                 |                |                            |                            |                              |
|              | TRACT 23                                                                                  |                 |                |                            |                            |                              |
| 3            | T-28-N, R-5-W<br>Sec. 34: Lot 1<br>Sec. 35: Lot 4,<br>NW/4 SE/4,<br>N/2 SW/4,<br>S/2 NE/4 | 296.06          |                | 12.50%                     | 12.50%                     | 2.023129%                    |
|              | Royalty Working Interest:<br>Amoco Production Co.<br>ORRI                                 |                 |                | 87.50%<br>.00%<br>100.00%  | 87.50%<br>.00%<br>100.00%  |                              |
|              | TOTAL                                                                                     |                 |                |                            |                            |                              |
|              | TRACT 24                                                                                  |                 |                |                            |                            |                              |

Effective November 1, 1977

SCHEDULE XVIII

| WELL NUMBER                    | DESCRIPTION | NUMBER OF ACRES | DRILLING BLOCK       |                | PERCENTAGE COMMITTED | PRESENT ACTUAL PARTICIPATION |
|--------------------------------|-------------|-----------------|----------------------|----------------|----------------------|------------------------------|
|                                |             |                 | OWNERSHIP            | PERCENTAGE     |                      |                              |
| <u>TRACT 25</u>                |             |                 |                      |                |                      |                              |
| T-28-N, R-5-W<br>Sec. 35: NW/4 |             | 160.00          | Royalty              | 12.50%         | 12.50%               | <u>1.093361%</u>             |
|                                |             |                 | Working Interest:    |                |                      |                              |
|                                |             |                 | Amoco Production Co. | 87.50%         | 87.50%               |                              |
|                                |             |                 | ORRI                 | .00%           | .00%                 |                              |
|                                |             |                 | TOTAL                | <u>100.00%</u> | <u>100.00%</u>       |                              |

Effective November 1, 1977

| SERIAL NUMBER | DESCRIPTION | NUMBER<br>OF ACRES | DRILLING BLOCK |            | PERCENTAGE<br>COMMITTED | PRESENT ACT<br>PARTICIPATI |
|---------------|-------------|--------------------|----------------|------------|-------------------------|----------------------------|
|               |             |                    | OWNERSHIP      | PERCENTAGE |                         |                            |

SCHEDULE XVIII  
 SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
 SAN JUAN 28-5 UNIT AREA

RECAPITULATION

Description of Lands in Participating Area:  
 Township 28 North, Range 5 West, N.M.P.M.  
 Section 10: Lot 4, S/2 SW/4  
 Sections 14, 24, 25: W/2  
 Sections 7, 8, 9, 15, 16, 17, 18, 19, 20, 21, 22, 25, 26,  
 27, 28, 29, 30, 31, 32, 33, 34, 35, 36: ALL

|                                                        |             |
|--------------------------------------------------------|-------------|
| Total number of acres in Participating Area:           | 14,633.77   |
| Total number of acres committed to Participating Area: | 14,633.77   |
| Percent of Basic Royalty Committed:                    | 99.824813%  |
| Percent of Working Interest Committed:                 | 100.000000% |
| Percent of ORRI Committed:                             | 100.000000% |

SCHEDULE XIX  
EIGHTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 28-5 UNIT AREA

| SERIAL NUMBER | DESCRIPTION                               | NUMBER<br>OF ACRES | DRILLING BLOCK                                                                                                                                                                                                                                                                                                       |            | PERCENTAGE<br>COMMITTED | PRESENT A<br>PARTICIP |
|---------------|-------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|-----------------------|
|               |                                           |                    | OWNERSHIP                                                                                                                                                                                                                                                                                                            | PERCENTAGE |                         |                       |
| SF 079250     | T-28-N, R-5-W                             | 1,851.76           | TRACT 1<br><br>Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br><br>ORRI<br><br>TOTAL                                                                                                                                                                                                                      | 12.50%     | 12.50%                  | 11.998105%            |
|               | Sec. 9: Lots 1,2, SE/4<br>SE/4, SW/4 SW/4 |                    |                                                                                                                                                                                                                                                                                                                      |            |                         |                       |
|               | Sec. 10: Lot 4, S/2 SW/4                  |                    |                                                                                                                                                                                                                                                                                                                      | 82.50%     | 82.50%                  |                       |
|               | Sec. 14: N/2                              |                    |                                                                                                                                                                                                                                                                                                                      | 5.00%      | 5.00%                   |                       |
|               | Sec. 15: N/2                              |                    |                                                                                                                                                                                                                                                                                                                      | 100.00%    | 100.00%                 |                       |
|               | Sec. 16: N/2                              |                    |                                                                                                                                                                                                                                                                                                                      |            |                         |                       |
| SF 079472     | T-28-N, R-5-W                             | 320.00             | TRACT 2<br><br>Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br><br>ORRI<br><br>TOTAL                                                                                                                                                                                                                      | 12.50%     | 12.50%                  | 2.073375%             |
|               | Sec. 30: NE/4,<br>N/2 S/2                 |                    |                                                                                                                                                                                                                                                                                                                      | 82.50%     | 82.50%                  |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      | 5.00%      | 5.00%                   |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      | 100.00%    | 100.00%                 |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      |            |                         |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      |            |                         |                       |
| SF 079519     | T-28-N, R-5-W                             | 80.00              | TRACT 3<br><br>Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>Langdon Dewey Harrison, Trustee<br>R. P. Tinnin<br>H. O. Pool<br>Evelyn Ellen Wallace and James<br>A. Brown, Trustees under the<br>Last Will and Testament of<br>Algernon Brown; and Evelyn<br>G. Brown and James A. Brown<br>Individually | 12.500000% | 12.500000%              | .518344%              |
|               | Sec. 24: N/2 NW/4                         |                    |                                                                                                                                                                                                                                                                                                                      | 67.948987% | 67.948987%              |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      | 1.638892%  | 1.638892%               |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      | .546297%   | .546297%                |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      | 4.370379%  | 4.370379%               |                       |
|               |                                           |                    |                                                                                                                                                                                                                                                                                                                      |            |                         |                       |

Effective December 1, 1977

SCHEDULE XIX

| SERIAL NUMBER        | DESCRIPTION                                                                                                                                                      | NUMBER OF ACRES | DRILLING BLOCK |             | PERCENTAGE COMMITTED | PRESENT AC PARTICIPA |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-------------|----------------------|----------------------|
|                      |                                                                                                                                                                  |                 | OWNERSHIP      | PERCENTAGE  |                      |                      |
| F 079519 (Continued) | J. R. Abercrombie                                                                                                                                                |                 |                | 1.456793%   | 1.456793%            |                      |
|                      | Lela L. Barkley                                                                                                                                                  |                 |                | .728396%    | .728396%             |                      |
|                      | John L. Abercrombie                                                                                                                                              |                 |                | .728397%    | .728397%             |                      |
|                      | Ralph H. McCullough                                                                                                                                              |                 |                | 1.456793%   | 1.456793%            |                      |
|                      | ORRI                                                                                                                                                             |                 |                | 4.254687%   | 4.254687%            |                      |
|                      | TOTAL                                                                                                                                                            |                 |                | 100.000000% | 100.000000%          |                      |
| F 079519-A           | <u>TRACT 4</u>                                                                                                                                                   |                 |                |             |                      | 11.403565%           |
|                      | Royalty                                                                                                                                                          | 1,760.00        |                | 12.500%     | 12.500%              |                      |
|                      | Working Interest:                                                                                                                                                |                 |                |             |                      |                      |
|                      | El Paso Natural Gas Co.                                                                                                                                          |                 |                | 65.625%     | 65.625%              |                      |
|                      | M. A. Romero, et al                                                                                                                                              |                 |                | 21.875%     | 21.875%              |                      |
|                      | TOTAL                                                                                                                                                            |                 |                | 100.000%    | 100.000%             |                      |
| F 079520             | <u>TRACT 5</u>                                                                                                                                                   |                 |                |             |                      | 5.701783%            |
|                      | Royalty                                                                                                                                                          | 880.00          |                | 12.500000%  | 12.500000%           |                      |
|                      | Working Interest:                                                                                                                                                |                 |                |             |                      |                      |
|                      | El Paso Natural Gas Co.                                                                                                                                          |                 |                | 67.948987%  | 67.948987%           |                      |
|                      | Evelyn Ellen Wallace & James Algernon Brown, Trustees under the Last Will and Testament of Algernon W. Brown; and Evelyn G. Brown & James A. Brown, Individually |                 |                | 4.370379%   | 4.370379%            |                      |
|                      | Langdon Dewey Harrison, Trustee Robert P. Tinnin                                                                                                                 |                 |                | 1.638892%   | 1.638892%            |                      |
|                      | J. R. Abercrombie                                                                                                                                                |                 |                | .546297%    | .546297%             |                      |
|                      |                                                                                                                                                                  |                 |                | 1.456793%   | 1.456793%            |                      |

Effective December 1, 1977

SCHEDULE XIX

| SERIAL NUMBER         | DESCRIPTION              | NUMBER OF ACRES | DRILLING BLOCK                                                                                                                                                                                                                                                                                                                                               |             | PERCENTAGE COMMITTED | PRESENT A PARTICIPA |
|-----------------------|--------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|---------------------|
|                       |                          |                 | OWNERSHIP                                                                                                                                                                                                                                                                                                                                                    | PERCENTAGE  |                      |                     |
| SF 079520 (Continued) |                          |                 | Ralph H. McCullough                                                                                                                                                                                                                                                                                                                                          | 1.456793%   | 1.456793%            |                     |
|                       |                          |                 | John L. Abercrombie Estate                                                                                                                                                                                                                                                                                                                                   | .728397%    | .728397%             |                     |
|                       |                          |                 | Lela L. Barkley                                                                                                                                                                                                                                                                                                                                              | .728396%    | .728396%             |                     |
|                       |                          |                 | H. O. Pool                                                                                                                                                                                                                                                                                                                                                   | 4.370379%   | 4.370379%            |                     |
|                       |                          |                 | ORRI                                                                                                                                                                                                                                                                                                                                                         | 4.254687%   | 4.254687%            |                     |
|                       |                          |                 | TOTAL                                                                                                                                                                                                                                                                                                                                                        | 100.000000% | 100.000000%          |                     |
| SF 079520-A           |                          |                 | TRACT 6                                                                                                                                                                                                                                                                                                                                                      |             |                      | 7.834249            |
|                       | T-28-N, R-5-W            | 1209.12         | Royalty                                                                                                                                                                                                                                                                                                                                                      | 12.500%     | 12.500%              |                     |
|                       | Sec. 25: NW/4, W/2 SW/4, |                 | Working Interest:                                                                                                                                                                                                                                                                                                                                            |             |                      |                     |
|                       | W/2 NE/4, SW/4 SE/4,     |                 | El Paso Natural Gas Co.                                                                                                                                                                                                                                                                                                                                      | 65.625%     | 65.625%              |                     |
|                       | Lots 1,2,3 & 4           |                 | M. A. Romero, et al                                                                                                                                                                                                                                                                                                                                          | 21.875%     | 21.875%              |                     |
|                       | Sec. 26: All             |                 | TOTAL                                                                                                                                                                                                                                                                                                                                                        | 100.000%    | 100.000%             |                     |
| SF 079521             |                          |                 | TRACT 7                                                                                                                                                                                                                                                                                                                                                      |             |                      | 4.138457            |
|                       | T-28-N, R-5-W            | 638.72          | Royalty                                                                                                                                                                                                                                                                                                                                                      | 12.500000%  | 12.500000%           |                     |
|                       | Sec. 32: Lots 1, 2,      |                 | Working Interest:                                                                                                                                                                                                                                                                                                                                            |             |                      |                     |
|                       | 3,4, N/2 S/2,            |                 | El Paso Natural Gas Co.                                                                                                                                                                                                                                                                                                                                      | 67.948987%  | 67.948987%           |                     |
|                       | N/2                      |                 | Evelyn Ellen Wallace &<br>James Algernon Brown,<br>Trustees under the Last<br>Will and Testament of<br>Algernon W. Brown; and<br>Evelyn G. Brown & James A.<br>Brown, Individually<br>Langdon Dewey Harrison, Trustee<br>Robert P. Tinnin<br>J. R. Abercrombie<br>Ralph H. McCullough<br>John L. Abercrombie Estate<br>Lela L. Barkley<br>H. O. Pool<br>GARE | 4.370379%   | 4.370379%            |                     |
|                       |                          |                 | TOTAL                                                                                                                                                                                                                                                                                                                                                        | 100.000000% | 100.000000%          |                     |
| Effective             | December 1, 1977         |                 |                                                                                                                                                                                                                                                                                                                                                              |             |                      |                     |

## SCHEDULE XIX

| SERIAL NUMBER | DESCRIPTION                                              | NUMBER<br>OF ACRES | DRILLING BLOCK                                                                          |            | PERCENTAGE<br>COMMITTED | PRESENT AC<br>PARTICIPA |
|---------------|----------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------|------------|-------------------------|-------------------------|
|               |                                                          |                    | OWNERSHIP                                                                               | PERCENTAGE |                         |                         |
| F 079521-A    | T-28-N, R-5-W                                            | 1,919.28           |                                                                                         |            | 12.500%                 | 12.435588%              |
|               | Sec. 28: SE/4 NE/4,<br>SE/4 NW/4,<br>W/2 NW/4, S/2       |                    |                                                                                         |            |                         |                         |
|               | Sec. 29: A11                                             |                    |                                                                                         |            | 65.625%                 |                         |
|               | Sec. 30: S/2 S/2                                         |                    |                                                                                         |            | 21.875%                 |                         |
|               | Sec. 31: Lots 1,2,3,4,<br>N/2 S/2, N/2 (A11)             |                    |                                                                                         |            | 100.000%                |                         |
|               |                                                          |                    | Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>M. A. Romero, et al<br>TOTAL |            |                         |                         |
| F 079522      | T-28-N, R-5-W                                            | 1,590.59           |                                                                                         |            | 12.50%                  | 10.305907%              |
|               | Sec. 21: SW/4 SW/4                                       |                    |                                                                                         |            |                         |                         |
|               | Sec. 33: Lots 1,2,3,4,<br>N/2 S/2, E/2<br>NE/4, W/2 NW/4 |                    |                                                                                         |            | 85.00%                  |                         |
|               | Sec. 34: Lot 2, N/2,<br>N/2 SE/4                         |                    |                                                                                         |            | 2.50%                   |                         |
|               | Sec. 35: Lots 1,2,3,<br>NE/4 SE/4,<br>N/2 NE/4           |                    |                                                                                         |            | 100.00%                 |                         |
|               |                                                          |                    | Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL                   |            |                         |                         |
| F 079522-A    | T-28-N, R-5-W                                            | 411.57             |                                                                                         |            | 12.50%                  | 2.666685%               |
|               | Sec. 36: Lots 3,4,5,6,<br>7,8, N/2 SW/4,<br>NW/4 SE/4    |                    |                                                                                         |            |                         |                         |
|               |                                                          |                    |                                                                                         |            | 85.00%                  |                         |
|               |                                                          |                    |                                                                                         |            | 2.50%                   |                         |
|               |                                                          |                    |                                                                                         |            | 100.00%                 |                         |
|               |                                                          |                    | Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL                   |            |                         |                         |

Effective December 1, 1977

SCHEDULE XIX

| SERIAL NUMBER | DESCRIPTION                              | NUMBER<br>OF ACRES | DRILLING BLOCK                  |                | PERCENTAGE<br>COMMITTED | PRESENT AC<br>PARTICIPA |
|---------------|------------------------------------------|--------------------|---------------------------------|----------------|-------------------------|-------------------------|
|               |                                          |                    | OWNERSHIP                       | PERCENTAGE     |                         |                         |
| M 012880      | T-28-N, R-5-W<br>Sec. 21: NE/4 NE/4      | 40.00              | <u>TRACT 10</u>                 |                | 12.50%                  | <u>.259172%</u>         |
|               |                                          |                    | Royalty                         |                |                         |                         |
|               |                                          |                    | Working Interest:               |                |                         |                         |
|               |                                          |                    | El Paso Natural Gas Co.         | 12.50%         | 12.50%                  |                         |
| F 080505      | T-28-N, R-5-W<br>Sec. 30: NW/4           | 160.00             | <u>TRACT 11</u>                 |                | 86.50%                  |                         |
|               |                                          |                    | ORRI                            | 1.00%          | 1.00%                   |                         |
|               |                                          |                    | TOTAL                           | <u>100.00%</u> | <u>100.00%</u>          |                         |
|               |                                          |                    | <u>TRACT 11</u>                 |                | 12.50%                  | <u>1.036687%</u>        |
| F 080505-B    | T-28-N, R-5-W<br>Sec. 19: SW/4           | 160.00             | Royalty                         |                |                         |                         |
|               |                                          |                    | Working Interest:               |                |                         |                         |
|               |                                          |                    | El Paso Natural Gas Co.         | 38.75%         | 38.75%                  |                         |
|               |                                          |                    | T.H. Harrington, et ux          | 38.75%         | 38.75%                  |                         |
| F 080516-B    | T-28-N, R-5-W<br>Sec. 15: N/2 SW/4, SE/4 | 240.00             | ORRI                            | 10.00%         | 10.00%                  |                         |
|               |                                          |                    | TOTAL                           | <u>100.00%</u> | <u>100.00%</u>          |                         |
|               |                                          |                    | <u>TRACT 12</u>                 |                | 12.50%                  | <u>1.036687%</u>        |
|               |                                          |                    | Royalty                         |                |                         |                         |
| F 080516-B    | T-28-N, R-5-W<br>Sec. 15: N/2 SW/4, SE/4 | 240.00             | Working Interest:               |                |                         |                         |
|               |                                          |                    | El Paso Natural Gas Co.         | 83.50%         | 83.50%                  |                         |
|               |                                          |                    | ORRI                            | 4.00%          | 4.00%                   |                         |
|               |                                          |                    | TOTAL                           | <u>100.00%</u> | <u>100.00%</u>          |                         |
| F 080516-B    | T-28-N, R-5-W<br>Sec. 15: N/2 SW/4, SE/4 | 240.00             | <u>TRACT 13</u>                 |                | 12.50%                  | <u>1.555032%</u>        |
|               |                                          |                    | Royalty                         |                |                         |                         |
|               |                                          |                    | Working Interest:               |                |                         |                         |
|               |                                          |                    | American Petrofina Co. of Texas | 87.50%         | 87.50%                  |                         |
| Effective     | December 1, 1977                         |                    | ORRI                            | .00%           | .00%                    |                         |
|               |                                          |                    | TOTAL                           | <u>100.00%</u> | <u>100.00%</u>          |                         |
|               |                                          |                    |                                 |                |                         |                         |
|               |                                          |                    |                                 |                |                         |                         |

SCHEDULE XIX

| SERIAL NUMBER | DESCRIPTION                                               | NUMBER<br>OF ACRES | DRILLING BLOCK                               |            | PERCENTAGE<br>COMMITTED | PRESENT A<br>PARTICIPATION |
|---------------|-----------------------------------------------------------|--------------------|----------------------------------------------|------------|-------------------------|----------------------------|
|               |                                                           |                    | OWNERSHIP                                    | PERCENTAGE |                         |                            |
| JF 080516     | T-28-N, R-5-W                                             | 640.00             |                                              |            |                         |                            |
|               | Sec. 14: S/2                                              |                    | Royalty                                      | 12.50%     | 12.50%                  | 4.146751%                  |
|               | Sec. 16: S/2                                              |                    | Working Interest:<br>Tom Bolack              | 87.50%     | 87.50%                  |                            |
|               |                                                           |                    | ORRI                                         | .00%       | .00%                    |                            |
|               | TOTAL                                                     |                    |                                              | 100.00%    | 100.00%                 |                            |
| JF 080516-A   | T-28-N, R-5-W                                             | 1,320.00           |                                              |            |                         |                            |
|               | Sec. 17: S/2                                              |                    | Royalty                                      | 12.50%     | 12.50%                  | 8.552674%                  |
|               | Sec. 18: N/2 S/2,<br>S/2 SE/4,<br>SE/4 SW/4               |                    | Working Interest:<br>El Paso Natural Gas Co. | 82.50%     | 82.50%                  |                            |
|               |                                                           |                    | ORRI                                         | 5.00%      | 5.00%                   |                            |
|               | TOTAL                                                     |                    |                                              | 100.00%    | 100.00%                 |                            |
| JM 010516     | T-28-N, R-5-W                                             | 565.80             |                                              |            |                         |                            |
|               | Sec. 7: Lots 1,2,3,<br>4, S/2 S/2<br>(All)                |                    | Royalty                                      | 12.50%     | 12.50%                  | 3.665987%                  |
|               | Sec. 8: Lots 1,2,3,4,<br>S/2 S/2<br>(All)                 |                    | Working Interest:<br>El Paso Natural Gas Co. | 82.50%     | 82.50%                  |                            |
|               |                                                           |                    | ORRI                                         | 5.00%      | 5.00%                   |                            |
|               | TOTAL                                                     |                    |                                              | 100.00%    | 100.00%                 |                            |
| Fee           | T-28-N, R-5-W                                             | 141.17             |                                              |            |                         |                            |
|               | Sec. 9: Lots 3,4,<br>SE/4 SW/4,<br>SW/4 SE/4<br>SW/4 SE/4 |                    | Royalty                                      | 12.50%     | 10.23%                  | .914683%                   |
|               |                                                           |                    | Working Interest:<br>El Paso Natural Gas Co. | 82.50%     | 82.50%                  |                            |
|               |                                                           |                    | ORRI                                         | 5.00%      | 5.00%                   |                            |
|               | TOTAL                                                     |                    |                                              | 100.00%    | 97.73%                  |                            |

Effective December 1, 1977

SCHEDULE XIX

| SERIAL NUMBER | DESCRIPTION                                                          | NUMBER OF ACRES | DRILLING BLOCK    |                                            | PERCENTAGE COMMITTED                       | PRESENT A PARTICIP, |
|---------------|----------------------------------------------------------------------|-----------------|-------------------|--------------------------------------------|--------------------------------------------|---------------------|
|               |                                                                      |                 | OWNERSHIP         | PERCENTAGE                                 |                                            |                     |
| Fee           | T-28-N, R-5-W<br>Sec. 22: N/2 NW/4                                   | 80.00           | <u>TRACT 18</u>   |                                            | 12.50%                                     | <u>.518344</u>      |
|               | Royalty Working Interest:<br>El Paso Natural Gas Co.<br>ORRI         |                 |                   | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> |                     |
|               | TOTAL                                                                |                 |                   |                                            |                                            |                     |
| Fee           | T-28-N, R-5-W<br>Sec. 15: S/2 SW/4                                   | 80.00           | <u>TRACT 18-A</u> |                                            | 12.50%                                     | <u>.518344</u>      |
|               | Royalty Working Interest:<br>American Petrofina Co. of Texas<br>ORRI |                 |                   | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> |                     |
|               | TOTAL                                                                |                 |                   |                                            |                                            |                     |
| Fee           | T-28-N, R-5-W<br>Sec. 18: SW/4 SW/4<br>Sec. 19: W/2 NW/4             | 120.00          | <u>TRACT 19</u>   |                                            | 12.50%                                     | <u>.777516</u>      |
|               | Royalty Working Interest:<br>Amoco Production Co.<br>ORRI            |                 |                   | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> |                     |
|               | TOTAL                                                                |                 |                   |                                            |                                            |                     |
| Fee           | T-28-N, R-5-W<br>Sec. 21: E/2 SW/4,<br>NW/4 SW/4,<br>SW/4 SE/4       | 160.00          | <u>TRACT 20</u>   |                                            | 12.50%                                     | <u>1.036687</u>     |
|               | Royalty Working Interest:<br>Amoco Production Co.<br>ORRI            |                 |                   | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> | 12.50%<br>87.50%<br>.00%<br><u>100.00%</u> |                     |
|               | TOTAL                                                                |                 |                   |                                            |                                            |                     |
| Effective     | December 1, 1977                                                     |                 |                   |                                            |                                            |                     |

SCHEDULE XIX

| SERIAL NUMBER | DESCRIPTION                                                                                      | NUMBER<br>OF ACRES | DRILLING BLOCK                                                                       |                                      | PERCENTAGE<br>COMMITTED              | PRESENT A<br>PARTICIP |
|---------------|--------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|-----------------------|
|               |                                                                                                  |                    | OWNERSHIP                                                                            | PERCENTAGE                           |                                      |                       |
| Fee           | T-28-N, R-5-W 120.00<br>Sec. 25: E/2 SW/4,<br>NW/4 SE/4                                          |                    | TRACT 21<br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL    | 12.50%<br>87.50%<br>.00%<br>100.00%  | 12.50%<br>87.50%<br>.00%<br>100.00%  | .777516%              |
| Fee           | T-28-N, R-5-W 160.00<br>Sec. 28: N/2 NE/4,<br>SW/4 NE/4,<br>NE/4 NW/4                            |                    | TRACT 22<br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL    | 12.50%<br>87.50%<br>.00%<br>100.00%  | 12.50%<br>87.50%<br>.00%<br>100.00%  | 1.036688%             |
| Fee           | T-28-N, R-5-W 329.70<br>Sec. 33: W/2 NE/4,<br>E/2 NW/4<br>Sec. 34: Lots 3,4,<br>N/2 SW/4         |                    | TRACT 23<br>Royalty<br>Working Interest:<br>El Paso Natural Gas Co.<br>ORRI<br>TOTAL | 12.50%<br>82.50%<br>5.00%<br>100.00% | 12.50%<br>82.50%<br>5.00%<br>100.00% | 2.136225%             |
| Fee           | T-28-N, R-5-W 296.06<br>Sec. 34: Lot 1<br>Sec. 35: Lot 4,<br>NW/4 SE/4,<br>N/2 SW/4,<br>S/2 NE/4 |                    | TRACT 24<br>Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI<br>TOTAL    | 12.50%<br>87.50%<br>.00%<br>100.00%  | 12.50%<br>87.50%<br>.00%<br>100.00%  | 1.918261%             |
| Effective     | December 1, 1977                                                                                 |                    |                                                                                      |                                      |                                      |                       |

SCHEDULE XIX

| SERIAL NUMBER | DESCRIPTION                                                  | NUMBER<br>OF ACRES | DRILLING BLOCK |            | PERCENTAGE<br>COMMITTED | PRESENT AC<br>PARTICIPATION |
|---------------|--------------------------------------------------------------|--------------------|----------------|------------|-------------------------|-----------------------------|
|               |                                                              |                    | OWNERSHIP      | PERCENTAGE |                         |                             |
|               | T-28-N, R-5-W<br>Sec. 35: NW/4                               | 160.00             | TRACT 25       |            |                         | 1.036688%                   |
|               | Royalty<br>Working Interest:<br>Amoco Production Co.<br>ORRI |                    | 12.50%         |            | 12.50%                  |                             |
|               |                                                              |                    | 87.50%         |            | 87.50%                  |                             |
|               |                                                              |                    | .00%           |            | .00%                    |                             |
|               | TOTAL                                                        |                    | 100.00%        |            | 100.00%                 |                             |

Effective December 1, 1977

| SERIAL NUMBER | DESCRIPTION | NUMBER<br>OF ACRES | DRILLING BLOCK |            | PERCENTAGE<br>COMMITTED | PRESENT AC<br>PARTICIPAT |
|---------------|-------------|--------------------|----------------|------------|-------------------------|--------------------------|
|               |             |                    | OWNERSHIP      | PERCENTAGE |                         |                          |

SCHEDULE XIX  
 EIGHTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
 SAN JUAN 28-5 UNIT AREA

RECAPITULATION

Description of Lands in Participating Area:

Township 28 North, Range 5 west, N.M.P.M.

Section 10: Lot 4, S/2 SW/4

Sections 24 & 25: W/2

Sections 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, 22,

25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35

& 36: ALL

Section 23: E/2, NW/4

Total number of acres in Participating Area:

Total number of acres committed to Participating Area:

15,433.77  
 15,433.77

Percent of Basic Royalty Committed:

Percent of Working Interest Committed:

Percent of ORRI Committed:

99.833894%  
 100.000000%  
 100.000000%

Effective December 1, 1977