CASE 1941: Application of JAL OIL CO. For exceptions to various provisions of Orders R-520, R-967, and R-1092-A for 5 wells in Jalmat Gas Pool. CASE 1941:Application of JAL OIL CO. For exceptions to various provisions of Orders R-520, R-967, and R-1092-A for 5 wells in Jalmat Gas Pool.

S.

Replicition, Transcript, Smill Exhibits, Etc.

| THE                                  |                | Future Recove | rable Hydroci<br>ober 1959 | arbons       | XXHIBIT NO              |                      |             |                 |               |
|--------------------------------------|----------------|---------------|----------------------------|--------------|-------------------------|----------------------|-------------|-----------------|---------------|
| 1 <b>C</b> 010<br>1231 123<br>11.211 | 1.0.           |               |                            |              | Ğ                       | 2055                 |             |                 |               |
| 1                                    | Gross<br>Acres | No. V<br>Oll  | Gas                        | Ultimate     | 12 Months<br>Production | Cumulated<br>10-1-59 | Future      | Net<br>Interest | <u>Net Fu</u> |
| xico                                 |                |               |                            |              |                         |                      |             |                 |               |
|                                      | 200            |               |                            |              |                         |                      |             |                 |               |
|                                      | 320            |               | 2                          | 4,027,550    | 301,091                 | 448, 772             | 3, 578, 778 | . 654841        | 2, 343        |
| ,                                    | 320            | 3             |                            | 160,000      | 12,266 ·                | 78, 936              | 81,064      | . 363327        | 29.           |
|                                      |                |               |                            | 422,000      | 50,740                  | 69, 524              | 352, 476    |                 | 128,          |
|                                      |                |               | 2                          | 8, 866, 420  | 220, 101                | 2, 422, 619          | 6, 443, 801 |                 | 2, 341,       |
| )                                    | 40             |               |                            |              |                         |                      |             |                 | • - · · •     |
|                                      |                |               |                            | 141, 540     | 3,514                   | 40,766               | 100,774     | .041016         | 4,            |
|                                      |                |               | 1                          | 24, 886, 100 | 536, 434                | 3, 836, 096          | 21,050,004  |                 | 863,          |
|                                      |                | 1             |                            | 16,000       | 766                     | 1, 451               | 14, 549     | 875             | 12,           |
|                                      |                |               |                            | 503, 840     | 23, 753                 | 31,958               | 471, 882    |                 | 412,          |
|                                      | 160            |               |                            |              |                         | ~                    |             |                 | ,             |

Net Future

JAL OIL COMPANY

BEFORE THE CONSELVATION CO SANTA FE, REP 1

Well USE Les County, New Mexico

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|---|-----------|-----|---|---|--------------------|---------------------|-------------------------|---------------------------|-----------------------------|
| Carlson Nos. 2 & 3  | 200       |     |   |   |                    |                     |                         |                           |                             |
| HPGas - MCF   |           |     | 2 | 4,027,550   | 301,091            | 448, 772            | 3, 578, 778             | . 654841                  | 2, 343, 53                  |
| Christmas Nog. 1 - 5  | 320       | •   |   | 160.000   | 12 266             | . 70.034            | a) a( (                 |                           | /*                          |
| Oil - Bbls  |           | 3   |   | 160,000   | 12,266             | • • •               | 81,064                  | . 363327                  | 29,45                       |
| LPGas - MCF   |           |     | • | 422,000   | 50,740             | 69, 524             | 352, 476                |                           | 128,06                      |
| HPGas - MCF   |           |     | 2 | 8, 866, 420   | 220, 101           | 2, 422, 619         | 6, 443, 801             |                           | 2, 341, 21                  |
| Coll, A. P. (Dev Unit)  | 40        |     |   | 141 640   |                    | 10 7/1              |                         | · · · · · ·               |                             |
| Oil - Bbls  |           |     |   | 141, 540  | 3,514              | 40, 766             | 100,774                 | .041016                   | 4, 13                       |
| HPGas - MCF   |           |     | 1 | 24, 886, 100  | 536, 434           | 3,836,096           | 21,050,004              |                           | 863, 39                     |
| Covington-Federal   |           |     |   | 14 000  |                    |                     |                         |                           |                             |
| Oil - Bbls  |           | 1   |   | 16,000  | 766                | 1,451               | 14, 549                 | . 875                     | 12, 73                      |
| LPGas - MCF   |           |     |   | 503, 840  | 23, 753            | 31,958              | 471, 882                |                           | 412,90                      |
| Dyer  | 160       | 2   |   | 107 600   | 1 003              |                     |                         |                           |                             |
| Oil - Bbls  |           | 2   |   | 107, 500  | 1,083              | 87, 229             | 20, 271                 | . 814323                  | 16, 510                     |
| LPGas - MCF   |           |     |   | 475,000   | 13,938             | 151,974             | 323, 026                |                           | 263,050                     |
| HPGas - MCF   |           | .n. | 1 | 3, 436, 270   | 102, 493           | 787,981             | 2,648,289               |                           | 2, 156, 560                 |
| Farnsworth Nos. 1,2 & 3   | 240       | _   |   |   |                    |                     |                         |                           |                             |
| Oil - Bbls  |           | 3   |   | 584, 500  | 30, 875            | 181, 476            | 403, 024                | . 678125                  | 273, 300                    |
| LPGas - MCF   |           |     |   | 1,957,330   | 171,930            | 655,016             | 1,302,314               |                           | 883, 130                    |
| Gregory, L.L.   | 80        |     |   |   |                    |                     |                         |                           |                             |
| Oil - Bbls  |           | 1   |   | 60,620  | 1,862              | 24, 893             | 35, 727                 | . 875                     | 31, 260                     |
| LPGas - MCF   |           |     |   | 516, 500  | 18,640             | 158, 448            | 358, 052                |                           | 313, 300                    |
| Gregory, R.O.   | 120       |     |   |   |                    | -                   |                         |                           |                             |
| Oil - Bbls  |           | 1   |   | 56,000  | 2,873              | 34, 680             | 21, 320                 | . 7375                    | 15, 720                     |
| LPGas - MCF   |           |     |   | 1, 154, 000   | 100, 872           | 419, 358            | 734, 642                |                           | 541, 800                    |
| Gutman Nos. 1 & 2   | 80        |     |   |   |                    |                     |                         |                           |                             |
| Oil - Bbls  |           | 2   |   | 87,000  | 2,526              | 38, 351             | 48, 649                 | . 375                     | 18,240                      |
| LPGas - MCF   |           |     |   | 870,000   | 33, 531            | 390,674             | 479, 326                |                           | 179, 750                    |
| Gutman "D" (Dev Unit)   | 40        |     |   | -   |                    |                     |                         |                           | ,                           |
| Oil - Bbls  |           |     |   | 172,020   | 3,094              | 43, 977             | 128,043                 | . 1875                    | 24,010                      |
| HPGas - MCF   |           |     | 1 | 25,010,370  | 461, 396           | 3, 986, 869         | 21, 023, 501            |                           | 3, 941, 910                 |
| Gutman - 18   | 80        |     |   |   |                    | .,                  |                         |                           | -, / •••, / •••             |
| Oil - Bbls  | •••       | 3   |   | 195, 320  | 6,283              | 111, 407            | 83, 913                 | . 773438                  | 64,900                      |
| LPGas - MCF   |           | -   |   | 285,000   | 14, 799            | 14, 438             | 270, 562                |                           | 209, 260                    |
| HPGas - MCF   |           |     |   | 5, 375, 520   | 250,834            | 2,604,180           | 2, 771, 340             |                           | 2, 143, 460                 |
| Harner No. 1  | 80        |     |   | .,  |                    | .,,                 | 0, //1, 510             |                           | 6, 143, <b>10</b> 0         |
| Oil - Bbls  |           | 1   |   | 32, 440   | 900                | 15, 460             | 16, 980                 | . 807617                  | 13, 710                     |
| Hodge   | 160       | -   |   |   | ,                  | ,                   | 10, 700                 |                           |                             |
| Oil - Bbls  |           | 4   |   | 179, 560  | 6, 309             | 79, 863             | 99,697                  | . 820313                  | 81, 780                     |
| LPGas - MCF   |           | -   |   | 2, 649, 000   | 52, 579            | 2,200,017           | 448, 983                |                           | 368, 310                    |
| HPGAS - MCF   |           |     | 1 | 8, 106, 680   | 563, 118           | 417,975             | 7,638,705               |                           | 6, 307, 140                 |
| Jack  | 160       |     | • | 0,100,000   | 505,110            | , // 2              | 7,030,103               |                           | 0, 307, 140                 |
| Oil - Bbls  |           | 4   |   | 119, 320  | 4,711              | 68, 191             | 51, 129                 | . 165                     | 8, 440                      |
| LPGas - MCF   |           | •   |   | 727,990   | 37, 176            | 429, 927            | 298,063                 | . 105                     | 49, 180                     |
| HPGAS - MCF   |           |     | 1 | 5, 747, 680   | 151,803            | 1,923,731           |                         |                           | 630, 950                    |
| Jenkins   | 160       |     | • | J. 141, 000   | 131,003            | 1,763,731           | 3, 823, 949             |                           | 030, 730                    |
| Oil - Bbls  | 100       | -   |   | 64, 300   |                    | 11 040              | 12 161                  | 707447                    | 10. 100                     |
|   |           | 2   |   |   | 2,575              | 31, 949             | 32, 351                 | . 783447                  | 25, 359                     |
| LPGas - MCF   |           |     | • | 1,957,500   | 70,081             | 1,085,913           | 871, 587                |                           | 682, 840                    |
| HPGas - MCF   |           |     | 2 | 4,716,380   | 182,216            | 1, 769, 459         | 2,946,921               |                           | 2, 308, 760                 |
| Lanchart-Sun  |           |     |   |   |                    |                     |                         |                           |                             |
| Oil - Bbls  |           |     |   | 67, 840   | 3,173              | 3, 173              | 61,667                  | . 020508                  | 1, 130                      |
| HPGas - MCF   |           |     | 1 | 13, 568, 250  | 477, 551           | 1, 545, 800         | 12,022,450              |                           | 246, \$60                   |
| Legal   | 160       | -   |   |   |                    |                     |                         |                           |                             |
| Oil - Bbls  |           | 2   |   | 84, 050   | 3, 545             | 45, 741             | 38, 309                 | . 809050                  | 30,990                      |
| LPGas - MCF   |           |     |   | 361,200   | 7,212              | 265, 423            | 95, 777                 |                           | 77,490                      |
| HPGas - MCF   |           |     | 1 | 3, 931, 080   | 123, 029           | 1,687,161           | 2,243,919               |                           | 1,815 440                   |
| Owen, Eva   | 40        |     |   |   |                    |                     |                         |                           |                             |
| HPGas - MCF   |           |     | 1 | 2, 848, 030   | 1, 399             | 950, 157            | 1, 897, 873             | . 572591                  | 1,086 700                   |
| Owen, Eva "D" (Dev Unit)  | 40        |     |   | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |                    |                     |                         | 2. A                      | 2                           |
|   |           | 1   |   | 160,000   | 420                | 36, 489             | 123, 511                | . 337891                  | 41, 730                     |
| Oil - Bble  |           |     |   | 120,000   | 484                | 31, 510             | 88, 490                 |                           | 29,900                      |
|   |           |     |   |   |                    |                     |                         |                           | ¥.                          |
| Oil - Bbls<br>LPGas - MCF   | 160       |     |   |   |                    |                     |                         |                           | . W.                        |
| Oil - Bbls<br>LPGas - MCF   | 160       | 2   |   | 157, 500  | 9, 787             | 35, 844             | 121, 656                | . 375                     | 45, 620                     |
| Oil - Bbls<br>LPGas - MCF<br>Sarkeys Nos. 1-C, 1-T & 2-T                              | 160       | 2   |   | 157, 500<br>2, 343, 040   | 9, 787<br>161, 840 | 35, 844<br>375, 391 | 121, 656<br>1, 967, 649 | . 375                     | 45, 620<br>737, <b>6</b> 70 |
| Oil - Bbls<br>LPGas - MCF<br>Sarkeys Nos. 1-C, 1-T & 2-T<br>Oil - Bbls                | 160<br>80 | 2   |   |   |                    |                     |                         | . 375                     | 737, 470                    |
| Oil - Bbls<br>LPGas - MCF<br>Sarkeys Nos. 1-C, 1-T & 2-T<br>Oil - Bbls<br>LPGas - MCF |           | 2   |   |   |                    |                     |                         | . 375<br>. 6171 <b>88</b> |                             |

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### JAL OIL COMPANY

Future Recoverable Hydrocarbons

October 1959

|  |                |              |              |                     | Ċ                       | Gross                |                        |                 |                      |
|--|----------------|--------------|--------------|---------------------|-------------------------|----------------------|------------------------|-----------------|----------------------|
| Wells                                      | Gross<br>Acres | No. 1<br>Oil | ∀ells<br>Gas | Ultimate            | 12 Months<br>Production | Cumulated<br>10-1-59 | Future                 | Net<br>Interest | Net Future           |
| Lea County, New Mexico co                  | ont'd          |              |              | -                   |                         |                      |                        |                 |                      |
| Wells                                      | 640            |              |              |                     |                         |                      |                        |                 |                      |
| Oil - Bbls                                 | 010            | 2            |              | 286, 500            | 16, 415                 | 61,277               | 225, 223               | . 536250        | 120, 780             |
| LPGas - MCF                                |                |              |              | 2, 249, 000         | 112,766                 | 1, 111, 103          | 1, 137, 897            |                 | 610, 200             |
| HPGas - MCF                                |                | *            | 6            | 8,216,850           | 772,667                 | 1, 141, 565          | 7,075,285              |                 | 3, 794, 120          |
| Woolworth                                  | 160            |              |              |                     |                         | 6 202                |                        |                 |                      |
| Oil - Bbls                                 |                |              | ı            | 79,800<br>6,900,710 | 1,610<br>86,858         | 5,287<br>1,422,805   | 74, 513<br>5, 477, 905 | . 526042        | 39,200<br>2,881,610  |
| HPGas - MCF<br>Woolworth - 27              | 240            |              | •            | 0,700,110           | 00,030                  | 1, 466, 603          | 7, 477, 703            |                 | 2,601,010            |
| Oil - Bbls                                 | 2.0            | 1            |              | 7,780               | 246                     | 3, 272               | 4, 508                 | . 806409        | 3, 640               |
| LPGas - MCF                                |                |              |              | 227,600             | 11,209                  | . 84,016             | 143, 584               |                 | 115, 790             |
| TOTAL New Marian                           | 3, 440         | 36           | 21           |                     |                         |                      |                        |                 |                      |
| TOTAL New Mexico<br>Oil - Bbls             | 3, 110         | 30           | 21           | 3, 029, 460         | 127, 722                | 1,062,576            | 1, 966, 884            |                 | 1,012,070            |
| LPGAS - MCF                                |                |              |              | 16, 819, 000        | 881, 550                | 7, 474, 690          | 9, 344, 310            |                 | 5,602,830            |
| HPGas - MCF                                |                |              | ,            | 128, 571, 770       | 4, 239, 409             | 25, 712, 619         | 102,859,151            |                 | 34, 198, 440         |
| Cochran County, Texas                      |                |              |              |                     |                         |                      |                        |                 |                      |
| Masten Nos. 1 & 2                          | 10 647         |              |              |                     |                         |                      |                        |                 |                      |
| Oil - Bbls                                 | 10,647         | 2            |              | 120, 300            | 4, 444                  | 62,674               | 57,626                 | . 75            | 43, 220              |
| Masten No. 3                               |                |              |              |                     |                         |                      |                        |                 |                      |
| HPGas - MCF                                | ******         |              | _1           | 1,949,350           | 14,136                  | 30, 481              | 1,918,869              | . 722656        | 1, 386, 680          |
| TOTAL Texas                                | 10, 647        | 2            | 1            |                     |                         |                      |                        |                 |                      |
| Oil - Bbls                                 |                |              |              | 120,300             | 4,444                   | 62,674               | 57,626                 |                 | 43, 220              |
| HPGas - MCF                                |                |              |              | 1, 949, 350         | 14, 136                 | 30, 481              | 1,918,869              |                 | 1, 386, 680          |
| TOTAL Original Wells<br>New Mexico & Texas |                |              |              |                     |                         |                      |                        |                 |                      |
| Oil - Bbls                                 |                |              |              | 3, 149, 760         | 132, 166                | 1, 215, 250          | 2, 024, 510            |                 | 1, 055, 290          |
| LPGas - MCF                                |                |              |              | 16,819,000          | 88L,550                 | 7, 474, 690          | 9, 344, 310            |                 | 5, 602, 830          |
| HPGas - MCF                                |                |              |              | 130, 521, 120       | 4, 253, 545             | 25, 743, 100         | 104, 778, 020          |                 | 35, 585, 120         |
| New Wells - Since 11-1-57                  |                |              |              |                     |                         | · · · · ·            |                        |                 |                      |
| Lea County, New Mexico                     |                |              |              |                     |                         |                      |                        |                 |                      |
| Christmas Nos. 6 - 9                       |                |              |              |                     |                         |                      | 2                      |                 |                      |
| Oil - Bbls                                 |                | 4            |              | 412, 320            | 18, 518                 | 18, 518              | 393, 802               | . 363327        | 143,080              |
| LPGas - MCF                                |                |              |              | 2, 704, 800         | 121,647                 | 121,647              | 2, 583, 153            |                 | 938, 530             |
| Farnsworth Nos. 4 & 5<br>Oil - Bbls        |                | 2            |              | 340,000             | 13,969                  | 22, 820              | 317, 180               | . 339063        | 107. 540             |
| LPGas - MCF                                |                | 4            |              | 1, 214, 580         | 34, 184                 | 66,759               | 1, 147, 821            | . 337003        | 389, 180             |
| Harner No. 2                               |                |              |              |                     |                         |                      |                        |                 |                      |
| Oil - Bbls                                 |                |              |              | 100,000             | 1, 439                  | 1,439                | 98, 561                | 807517          | 79,600               |
| HPGas - MCF<br>Sarkeys No. 2-C (bln)       |                |              | 1            | 2,000,000           |                         |                      | 2,000,000              |                 | 1,615,23             |
| Oil - Bbls                                 |                | 1            |              | 97, 500             | 3,612                   | 6, 559               | 90, 941                | 375000          | 34, 100              |
| LPGas - MCF                                |                | -            |              | 780, 900            | 53, 949                 | 85, 571              | 695, 325               |                 | 260, 750             |
| Watkins No 2                               |                |              |              |                     |                         |                      |                        |                 |                      |
| HPGas - MCF                                |                |              | 1            | 2,900,000           | 28, 579                 | 28, 579              | 2,871,421              | . 617188        | 1,772,210            |
| Cochran County, Texas                      |                |              |              |                     |                         |                      |                        |                 | 1                    |
| Masten Nos. 5 - 12                         |                | -            |              |                     |                         |                      | A13                    | - r             |                      |
| Oil - Bbls<br>LPGas - MCF                  |                | 7            |              | 969,000<br>750,000  | 26,726<br>1,531         | 26,726<br>1,531      | 942, 274<br>748, 469   | . 75            | 706, 110<br>561, 350 |
|  |                |              |              |                     |                         |                      | <u></u>                |                 |                      |
| TOTAL New Wells<br>Oil - Bbls              |                | 14           | 2            | 1, 918, 820         | 64, 264                 | 76,062               | 1, 842, 758            |                 | 1,071,030            |
| LPGas - MCF                                |                |              |              | 5, 450, 280         | 211, 311                | 275, 508             | 5, 174, 772            |                 | 2, 149, 81           |
| HPGas - MCF                                |                |              |              | 4,900,000           | 28, 579                 | 28, 579              | 4, 871, 421            |                 | 3, 387, 440          |
| GRAND TOTAL                                |                |              |              |                     |                         |                      |                        |                 |                      |
| Oil - Bbls                                 |                |              |              | 5, 068, 580         | 196, 430                | 1, 201, 312          | 3, 867, 268            |                 | 2, 126, 320          |
| LPGas - MCF                                |                |              |              |                     | 1,092,861               | 7, 750, 198          | 14, 519, 082           |                 | 7, 752, 640          |
| HPGas - MCF                                |                |              |              | 135, 421, 120       | 4, 282, 124             | 25, 771, 679         | 109, 649, 441          |                 | 38, 972, 560         |
|  |                |              |              | IRA BRINE           | ERHOPP                  |                      | 2                      |                 |                      |
|  |                |              |              |                     |                         |                      |                        |                 | · •                  |

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EXHIBIT NO.

April 6, 1960

In Re: Jalmat wells & Allowable

In a discussion with Mr. Girand, he asked what Jal's percentage of wells as to total wells in above Pool, also Jal's allowables as to total allowables for the above Pool.

For this summary I am using March 1960 figures.

| Total | Jalmat wells  | 387   |        |
|-------|---------------|-------|--------|
| Jal's | Jalmat wells  | 10    |        |
|       | percentage to | total | 2.584% |

Total Jalmat allowable 8,600,945 mcf Jal's Jalmat allowable 131,666 mcf Jal percentage to total 1.531%

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO BAT No. CASE

DI/b1

FILE MENO:

April 12, 1960

FILL MIND:

In Ro: Jalmat Wells & Alloudles

The following is a comparison of Jal Cil Co., Inc's well in the Jahnst Pool to total wells in Pool, also allowable as to total allowables for Jainst Pool.

For the month of April 1960.

| Total | Jelmat  | ; wells |        | 385 |        |
|-------|---------|---------|--------|-----|--------|
| Jal 🗰 | 11 60.  | Jahmes  | wells  | 19  |        |
| Jal B | L1 para | mtage   | to tak |     | 2.597% |

Total Jaimat allowable 6,541,921 mcf Jal 911 Jaimat allowable 100,340 mcf Jal 911 percentage to total 1.5325

EXHIBIT NO

Care 1941

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El Paso Natural Gas Company

El Paso, Texas

June 8, 1959

ADDRESS REPLY TO: Post office box 1384 Jal, New Mexico



Jal Oil Company Drawer Z Jal, New Mexico

Gentlemen:

This letter will confirm our conversation on June 5, 1959, concerning the reclassification of gas wells in the Jalmat Pool.

The New Mexico Oil Conservation Commission has reclassified four (4) of your wells connected to our gathering system from marginal to nonmarginal status. The wells are the Dyer #3, Legal #2, Jenkins #1 and Repollo #1 in the Jalmat Gas Pool. The allowables were made retroactive to July, 1958, and all of the wells are now overproduced due to being produced at all times as marginal wells.

Since the Repollo #1 makes a considerable amount of water and if it should be ordered shut in by the New Mexico Oil Conservation Commission due to overproduction then it would probably be detrimental to the well with probable complete loss of gas production. It would probably be advantageous to request permission for an exception to the rules from the New Mexico Oil Conservation Commission to allow the Repollo #1 to continue to produce at all times. The Commission granted an exception to the rules in 1955 to allow it to continue to produce for a one year period when it was overproduced prior to being reclassified as a marginal well.

As you have requested in the past, the Repollo #1 well will be left producing into our system until we are notified otherwise.

RECEIVED

JUN1 0 1959

JAL OFFICE



EL PASO NATURAL CAS COMPANY

Yours truly,

D. B. Gillit Dispatching Department

EXHIBIT NO.

El Paso Matural Gas Company

El Paso, Texas

March 7, 1960

ADDRESS REPLY TO-POST OFFICE BOX 1384 JAL, NEW MEXICO



Girand and Stout, Lawyers P. O. Box 1445 Hobbs, New Mexico

Attention: Mr. W. D. Girand

Gentlemen:

Confirming our telephone conversation last week regarding the Jal Oil Company - Watkins No. 2, Jalmat gas well, located SEZ of NEZ, Section 35, Township 24 South, Range 36 East, Lea County, New Mexico, the following information is submitted:

In November, 1959, I met with Mr. Howard Olsen and Mr. Dale Ellis, with The Jal Oil Company, to discuss scheduling production of the Watkins No. 2 gas well. This meeting was brought about because of the difficulty in keeping the well producing into the line. As you know, allowables have been extremely low, and in order to keep the well in balance, we have been required to shut it in at times, or schedule production on a very low daily rate. In either case we found the well would log off, requiring it to be swabbed or blown down in order to unload.

In the meeting with Mr. Olsen, it was decided to attempt to establish an optimum rate of flow that would enable the well to flow continuously into the line without logging off. On or about November 16, 1959, the rate was set at approximately 650 MCFPD. This volume was gradually reduced until the rate was approximately 321 MCFPD. Production remained at this level until February 9, 1960, at which time we had a failure on our field compressor, causing it to be off some twenty-four (24) hours. During this interval I understand the well logged off and required unloading before it would produce into our one hundred (100) pound line. After unloading, the rate was again set at about 321 MCFPD and it remained constant until February 24, 1960, For no apparent reason the volume dropped to 242 MCFPD on the 24th, to 75 MCFPD on the 25th, and on the 26th, the well logged off completely. During this period our compressor continued to operate. It is my understanding that Mr. Ellis was unable to unload the well by blowing and that it will requiring swabbing before production can be resumed. At this writing the well is still off.

Based on the facts outlined it is apparent the well will require approximately 325 MCFPD constant production in order to prevent consistant logging off. This, of course, presents the problem of getting the well in an unbalanced overproduced status. The 325 MCFPD required production is approximately four (4) times the wells average monthly allowable for the last proration period in 1959.

Should you need any further information or have any questions regarding this matter please notify us at your convenience.

Yours very truly,

EL PASO NATURAL GAS COMPANY

J. W. Baulch, Jr. Gas Production Engineer

JWB,Jr:bjc cc: Mr. Howard Olsen Jal Oil Company Midland, Texas

> El Paso Natural Gas Company Proration Department El Paso, Texas

EXHIBIT NO.

JAL OIL CONPARY, INC. RESERVES & PRODUCTION FROM ENGINEERS REPORT OCTOBER 1959-PLUS PRODUCTION TO 1-1-60

> Watkins #2 SE ME 35-248-36E Los County Jalmat Pool

| Original Reserves              | 2,990,000 MCF |
|--------------------------------|---------------|
| Less Production Thru Dec. 1959 | 39,768 MET    |
| Unrecovered Reserves 1-1-60    | 2,860,232 MET |

# STATE OF TEXAS I COUNTY OF HEDLAND I

I, J. Cheming, do hereby certify that the above is a true and correct account of the recerves and production from Engineering Report of October, 1959, plus production to January 1, 1960.

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Subscribed and succe to bei

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Construction of the

EXHIBIT NO.

March 5, 1960

FILE MEMO:

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#### In Re: Watkins #2 SE ME 35-248-36E Les County, New Mexico

This summary of well activity covers period October 1, 1959 through February 29, 1960.

Oct. 1-8 Flowing well. No gas this period, well shut in, casing pressure 9004.

Oct. 8-16 Flowing well. No gas this period, well shut in.

Oct. 16-23 Flowing well. No gas this period, well shut in.

Oct. 23-31 Well rooduced 308 mcf. Blew well in water 250 bbls per day.

- Get. 31-Nov. 8 Well produced 2,120 mcf. When line pressure gess up production drops due to water condition and line pressure, water 250 bbls. per day.
- Nov.8-16 Well produced 141 mcf. Well blown in almost every day to keep water off. Had to swab well in on Nov. 11th as water was too great for well to blow around.
- Nov. 15-22 Well produced 1,440 mef. Water is blown off when well is not on line. Had to swab well in 11/17 due to same condition as above.
- How. 22-30 Well produced 987 mef. Changed affice from 3/4" to 1/4" to see if well would produce less gas and flot logg off.

Der. 1-8 Well produced 221 maf. Well died on 1/4" orifice and would not blow around, used a sumb unit Dec. 4th to get water eff formation and back producing.

- Dec. 8-16 Well died again with 1/4" erifice and would not produce. Grifice changed Dec. 9th from 1/4" to 1/2" and well subbed in. Well produced approx. 350 mef and died. Well subbed in Dec. 10th produced 25 mef and died. Well subbed in Dec. 11th produced approx. 40 mef and died. Grifice changed from 1/2" to 1" and well was blown in. Well was able to produce with 1" crifice but steing pressure has dropped from 900% to 600% in approx. two months.
- Dec. 16-23 Well produced 2,335 msf. Chokes were pinched to reduce flow of gas, well started logging off. This flow procedure was tested with El Paso Mat'l Gas as per their letter of March 7, 1960.

#### Page 2 - FILE MEHO

- Dec. 23-31 Well produced 2,642 mof. Chart shows well heading due to enormous amount of water, same being approximately 250 bbls water per day.
- Jan, 1-8 Well produced 2,164 mef. Chart shows well pinched down to determine low rate of flow and well died. Well later blown in when line pressure drapped allowing same to unlead water.
- Jan. 8-16 Well produced 2,696 mef. Chart shows production at a specified rate when choke is pinched well begins to logg off then choke is opened up and well unloads water.
- Jan. 16-23 Well produced 2,075 mof. Well producing at as low rate as can be produced without logging off. Water still approx. 250 bbls. per day.
- Jan, 23-31 Well produced 2707 mef. Well started out low and appeared to be logging off so choke was opened to allow well to unload water.
- Feb. 1-8 Well produced 2,517 mef. Producing at as low rate as possible without logging off.
- Yeb. 5-16 Well produced 1,706 mef. Chart shows erratic production do to logging off condition. Well logged off on the 14th do to high line pressure and cold weather.
- Teb. 16-21 Well produced 1,246 mcf. Chart shows some as showe.
- Yab. 21-29 Well produced 1,004 msf. Well logged off several times due to cold weather. Was able to blow well in when line pressure and weather permitted. Water production still approx. 250 bbls. per day and easing pressure dropping gradually due to water energachment.

Casing pressure on March 31, 1960 was 360#.

The above information prepared from El Pase Charts and field superintendent information.

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LAMBIT NO.

#### JAL OIL COMPANY, INC. RESERVES & PRODUCTION FROM ENGINEERS REPORT OCTOBER 1959-PLUS PRODUCTION TO 1-1-60

E. Owen #1 SW SW 21-258-37 E Lea County Jalmat Pool

| Original Reserves              | 2,848,030 MCF |
|--------------------------------|---------------|
| Less Production Thru Dec. 1959 | 954,498 MCF   |
| Unrecovered Reserves 1-1-60    | 1,893,532 MCF |

STATE OF TEXAS I COUNTY OF MIDLAND I

I, J. Chewning, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of October, 1959, plus production to January 1, 1960.

Chenning

Subscribed and sworn to before me this I'l day of much , 1960.

NEY

12.925 Hidd een

Notary Public

Sold and

EXHIBIT NO,

#### March 5, 1960

FILE MEMO:

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In Re: E. Owen #1 SW SW 21-258-37E Les County, New Mexico

The following is a summary of well activity October 1, 1959 through February 29, 1960.

Oct. 1-9 This well has a piston installation and was shut in approximately one year. Well is dead due to water condition after bng shut in period and emable to blow well in.

Oct. 9-17 Same as above

Oct. 17-24 Same as above

- Oct. 24-31 Same as above. Had pulling unit swab well in 10/31 and same produced 43 mcf and considerable amount of water before well died.
- Nov. 1-9 Well was swabbed in Nov. 3rd and produced very little before dying. Swabbed in again 11/4 and produced a total for this period of 90 mcf and considerable amount of water.
- Nov. 9-17 Well produced 59 mcf for this period. Well was blown in several times and would not take line. This procedure performed each day to get fluid off well. Produced approx. 40 bbls water per day.

Nov. 17-23 Well produced 175 mcf under same conditions as above.

Nev. 23-Dac. 1 Well produced 438 mcf. Same conditions as above.

Dec. 1-9 Well produced 442 mcf. Same conditions as above.

Dec. 9-17 Well produced 297 mcf. Same conditions as above.

- Dec. 17-24 Well produced 121 mcf. Changed exifice 12/18 from 1/2" to 1" to get piston to run. Produced 814 mcf after change and approximately 40 bbls. water per day.
- Bec.24-Jan. 1 Well produced 1,664 mcf. Well having hard time keeping fluid off formation
- Jan. 1-9 Produced 731 maf. Well logged off five times in this period was able to blow same in. Water produced still about the same.

Jan. 9-17 Well produced 175 mcf. Well was blown each day but well only took line two times and logged off each time due to water on formation.



#### Fage 2 - FILE MENCO

Jan. 17-24 Well produced 121 mef unable to get well to take line. Tried blowing in once or twice each day.

Jan, 24-Feb, 1 Well produced 7 mef. Same conditions as above.

Teb. 1-9 Well produced 451 msf. Line pressure down well blew in but unable to produce normally.

Yeb, 9-17 Well produced 579 mcf. Same conditions as above.

Feb, 17-22 Well produced 161 mcf. Well logged off after two days low production due to same conditions as above.

Feb. 22-Mar. 1 Well produced 348 mef. Produced low for 1/2 time and was logged off approximately 1/2 time. Each time well logged off the well was worked with to get water off formation and get same back to producing. When producing it unloads approx. 40 bbls water par day.

On March 31, 1960 the easing pressure wes4000 and tubing pressure 2000.

The above information gathered from field superintendent information and Ki Pase Gas Charts.

E. Masturck

111

EXHIBIT NO

JAL OIL COMPANY, INC. RESERVES & FRODUCTION FROM KNUINKERS REPORT OCTOBER 1959-PLUS PRODUCTION TO 1-1-60

> Repello #1 SW NW 28-258-37% Les County Jalmat Pool

| Original Reserves              | 6,363,446 MCF |
|--------------------------------|---------------|
| Less Production Thru Dec. 1959 | 2,184,353 MEP |
| Unrecovered Reserves 1-1-60    | 4.179.093 HCF |

STATE OF TELAS

R

1, J. Cheming, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of October, 1959, plue production to January 1, 1960.

Subscribed and summer to before no this 28 day of Much, 1968.

Joyce Malden

NEW MEXICO

EXHIBIT NOLLOGOGASSESSE

### JAL OIL COMPANY, INC. RESERVES & PRODUCTION PROM MINIMUMS REPORT OCTOBER 1959-PLES PROMPETICS TO 1-1-60

Byer #3 SE NE 31-258-37E Los Co. Jalmat Pool

| Original Reserves               | 3,436,278 1027 |
|---------------------------------|----------------|
| Less Production Three Dec. 1959 |                |
| Unrecovered Reserves 1-1-60     | 2.642.672 MEF  |

STATE OF THAS COUNTY OF MIDLAND

I, J. Chemning, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of Sctober, 1990, plus produc-tion to January 1, 1960.

An to before me this 28 day of Much, 1960.

Subscribed a

| OIL CONSERVATION COM | MISSION |
|----------------------|---------|
| SANTA FE, NEW MED    | KICO    |
| - <u>194</u>         |         |

Jayer Medden

| BEFORE<br>DIL CONSERVATION<br>SANTA F | DOMMISSION |
|---------------------------------------|------------|
| OIL CONSTITUTE                        |            |
| CASE                                  |            |

EXHIBIT NO.

#### April 5, 1960

#### In Re: Dyer #3 SE NE 31-252-37E Lea County, New Mexico

The following summary covers well from October 1, 1959 through February 29, 1960.

Oct. 1-9 Piston set 1½ hrs. on 1/2 hour off. Each gas production kick on chart is strong, then well production drops considerably due to water volume. When line pressure is up to approx. 1809 production drops sharply. Production 2,282 mef water approximately 25 bbls day.

Oct. 9-17 Piston setting is the same. Line pressure up Oct. 12th, well died, was able to blow same in Oct. 14th. Line pressure still high, well died again. Same thing kappened Oct. 15 & 16th Production 1,419 mef, water same.

- Oct. 17-24 Piston setting the same. Well blown in on 17th and well did. Well blown in Oct. 19th and died. Same thing happened Oct. 22 and 23rd. Production 405 mcf, water increasing
- Oct.24-Nov. 1 Piston setting the same. Well was blown in four times in this period and logged off each time. Unable to keep same producing due to water. Prod. 569 mcf, water approximately 30 bbls per day.
- Nov. 1-9 Fiston setting the same. Well blown in two times in this period and died each time. Unable to keep producing due to water encroachment. Prod. 296 mef, water approximately same.
- Nov. 9-17 Same piston setting. Unable to blow well in. Had such unit swab well in Nov. 13th but was unable to keep well producing. Well died about four hours later. Prod. 71 mcf. water same.

Nov. 17-23 Unable to blow well in. He gas.

Nov, 23-Dec. 1 Usable to blog and in. He gas.

Dec. 1-9 Piston Setting the same. Swabbed well in Dec. 2nd and same died shortly thereafter. Prod. 151 mef. water approx. 30 bbls.

Dec. 9-17 Unable to get well to produce. No gas.

Box. 17-24 Unable to get well to produce. He gas.

Dec. 24- Jan. 1 Unable to get well to produce. No gas.

Jan. 1-9 Unable to get well to produce. He gas.

Jan. 9-17 Uamble to get well to produce, No gas.

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO CASE

FILE MINO:

Page 2 - FILE MEMO

- Jan. 17-24 Unable to produce well so installed pump jack Jan. 21st to lift water off formation. Production 307 mcf, water 30 to 35 bbls per day.
- Jan. 24-Feb.1 Line pressure high approx. 2254. Pump running to keep water off formation. Production is low due to line pressure. Production 1,091 mcf, water same.
- Feb. 1-9 Changed orifice from 1k<sup>H</sup> to 3/4<sup>H</sup>. Pump running. Production 1,262, water same.
- Teb. 9-17 Pump running to keep formation clean. When line pressure is high production is down. Production 880 mof, water same.
- Feb. 17-22 Had trouble with pump jack engine and cold weather. Well produced very little gas. Production 418 mcf, water approximately 35 bbls per day.
- Feb. 22-Mar. 1 Well produced in accordance with line pressure. Pump running to keep formation clear of water. Produced 1,192 mcf water about the same.

This well on March 31, 1960 had casing pressure of 250#, tubing on pump.

The above summary compiled from El Paso Gas Charts and field superintendent information.

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1011/61

#### Page 2 - FILE MINO

- Jan, 17-24 Unable to produce well so installed pump jack Jan. 21st to lift water off formation. Production 307 mcf, water 30 to 35 bbls per day.
- Jan. 24-Feb.1 Line pressure high approx. 2254. Pump running to keep water off formation. Production is low due to line pressure. Production 1,091 mof, water same.
- Feb. 1-9 Changed orifice from 1k<sup>H</sup> to 3/4<sup>H</sup>. Pump running. Production 1,262, water same.
- Teb. 9-17 Pump running to keep formation clean. When line pressure is high production is down. Production 380 mcf, water same.
- Feb. 17-22 Had trouble with pump jack engine and cold weather. Well produced very little gas. Production 418 mcf, water approximately 35 bbls per day.
- Yeb. 22-Mar. 1 Well produced in accordance with line pressure. Pump running to keep formation clear of water. Produced 1,192 mcf water about the same.

This well on March 31, 1960 had casing pressure of 2500, tubing on pump.

The above summary compiled from El Paso Gas Charts and field superintendent information.

A Dichai

103/61

EXHIBIT NO.

El Paso Natural Gas Company El Paso, Texas

April 11, 1960

ADDRESS REPLY TO. Post office box 1384 Jal. New Mexico

Girand and Stout, Lawyers P. O. Box 1445 Hobbs, New Mexico

Attention: Mr. W. D. Girand

Gentlemen:

Enclosed herewith is a map showing a portion of El Paso Natural Gas Company's dry gas gathering system. The pipelines outlined in red represent that portion of our system operating at approximately one hundred (100) PSIG.

In order to reduce the line pressure to one hundred (100) pounds we have installed seven (7) field compressor units. They are identified on the map as "El Paso MB Field Compressors", "El Paso Maggie Rose Field Compressor" and "El Paso Cooper Field Compressors".

The "El Paso MB" and "El Paso Maggie Rose" compressors have a combined capacity of 14,700 MCFPD operating at 85 PSIG suction pressure and 200 PSIG discharge pressure. The "El Paso Cooper Field Compressors" have a capacity of 5,800 MCFPD operating at 85 PSIG suction pressure and 200 PSIG discharge pressure.

Should you need any further information regarding our 100 PSIG Intermediate System please let me know.

JWB, Jr:bjc

Attachment

Yours truly,

EL PASO NATURAL GAS COMPAN

J. W. Baulch, Jr.

J. W. Baulch, Jr. Gas Production Engineer

EXHIBIT NO.

and the second second

# WELLS CONNECTED TO 1000 SYSTEM

| PERATOR AND WELL NAME  | UNIT LETTER  | LOCAT<br>SECTION                             | TOWNSHIP                 | RANGE  |
|--|--|--|--------------------------|--|
| merada Petroleum Corporation   |  |  |                          |  |
| Cagle C-1 Thg.   | D  | 3  | 26                       | 37   |
| rgo Oil Corporation  |  |  |                          |  |
| Lanchart #1  | ► H  | 21   | 25                       | 37   |
| ities Service Oil Company  |  |  |                          |  |
| Dabbs #1   | <b>D</b>   | 23   | 25                       | 37   |
| . R. Cone  |  |  |                          | -<br>  |
| Hob11 Hyers #4   |  | 22   | 24                       | 36   |
| ontinental Oil Company   |  |  |                          |  |
| Ascarate C-24-1  | B B  | 24   | 25                       | 36   |
| Ascarate D-24-1  | J  | 24   | 25                       | 36   |
| Sholes A-13-3  | P - 3  | - 13   | <b>25</b>                | 36   |
| Sholes A-19-1  | L  | 19   | 25                       | 37   |
| Sholes 8-19-1  | N B  | 19   | 25                       | 37   |
| State A-2-1  | 0  | 2  | 25                       | 37   |
| Paso Natural Gas Company   |  |  |                          |  |
| Carlson Federal #1   | L  | 22   | 25                       | 37   |
| Carlson Federal #2   | N  | 23   | 25                       | 37   |
| Farnsworth C-2   | G  | 4  | 26                       | 37   |
| Gregory Federal #1<br>Harrison Federal #1  | J  | 33   | 25                       | 37   |
| Harrison Federal #2  | L<br>D   | 27<br>27                                     | 25<br>25                 | 37   |
| Langlie Federal A-1  | <b>j</b>   | 17   | 25<br>25                 | 37   |
| mble Oil & Refining Company  |  | 2<br>2<br>2                                  |                          |  |
| Hadfield #1  | J  | 21   | 25                       | 37   |
| Harrison #1  | Ň  | 25   | 24                       | 36   |
| Harrison #3  | X  | 25   | 24                       | 36   |
| Hunter #1  | D  | 24   | 24                       | 36   |
| Lonobart #1  | K  | 21   | 25                       | - 37   |
| Thomas #1  | 0  | 23   | 24                       | 36   |
| 1 Gil Company  | 4  |  |                          |  |
| Dyer #3  | 1997 - 1997 - <b>19</b> 77 - 1997 - 19   | 31   | 25                       | 37 -   |
| Jenkins #1   | 1  | 29   | 25                       | 37   |
| Legal #2   | 1  | 31   | 25                       | 37   |
| Grens #1   | N N  | 21   | 25                       | 37   |
| Repollo #1   | Inssion E  | 28   | 25                       | 37   |
| Repollo #1<br>Watkins #2<br>ON CONSERVATION CONT<br>SANTA FE. NEW LAE<br>SANTA FE. NEW LAE | xico/6   | ана <b>35</b> ж. на на<br>1999 г.<br>1996 г. | <b>24</b> , <sup>9</sup> | <b>36</b><br>1991 - Santa Sa |
| OIL CONSERVE NEW   | 110  |  |                          |  |
| TAVL   |  |  |                          |  |
|  | The second s |  |                          |  |

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# WELLS CONNECTED TO LOD! SYSTEM

|                              |  |             | EXHIB  | ľг Ŋo  |
|------------------------------|--|-------------|--|--|
| OPERATOR AND WELL NAME       | UNIT LETTER  | LOC         | ATION  |  |
| John M. Kelly                |  | SPETION     | TOWNSHIP   | RANGE  |
| Shahan #3                    |  |             |  | and an an and an and an and an and a second second |
|                              | G  | 33          |  |  |
| Leonard Ofl Company          |  |             | 25   | 37   |
| bares #1                     |  |             |  |  |
| Bates #2                     | L  | 20          |  |  |
| Justis #1                    | Ð  | 29          | 25   | 37   |
| Justis #2                    | И  | 19          | 25   | 37   |
| B.M. Justia #7               | H  | 20          | 25   | 37   |
| Lanchart #1-A                | F  | 20          | 25   | 37   |
|                              | G  | 21          | 25   | 37   |
| Ralph Lowe                   |  |             | 25   | 37   |
| Coates A-2                   | x  |             |  |  |
| Maggie Rose #1               | E  | 31          |  |  |
| Maggie Rose #3               | H  | 18          | 25   | 37   |
|                              | κ.   | 18          | 25   | 37   |
| Disen Oils, Incorporated     |  | •••         | 25   | 37   |
| S.K. Cooper #1               |  |             |  |  |
| Cooper #5                    | 0  | <b>1</b> 1  | 24   | •  |
| Cooper B-2                   | Н  | 14          | 24   | 36   |
| Winningham #1                | C  | 14          | 24   | 36   |
| Winningham #2                | С  | 30          | 24   | 36   |
| Winningham #3                | P  | 19          | 25   | <b>37</b> to the                                   |
|                              | 1  | 30          | 25<br>25   | 37   |
| oducing Properties, Inc.     |  | 10<br>10    | 23   | 37   |
|                              |  | at a second | 1947)<br>1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - |  |
| Dabbs #2                     | 1997 - <b>M</b> . 1997 - 1997 | 34          | 25   |  |
| Martin #2                    | i i i  | 34          | 25   | 37   |
|                              | A A  | 31          | 24   | 37   |
| G. Rodman                    | 8<br>  |             | - <b>4-</b>  | 37   |
| Hadfield #1                  |  |             |  |  |
| Hadfield \$2                 | 0  | 21          | 25   |  |
| 11                           | r Pala   | 21          | 25   | 37   |
| 11 Oil Company               |  |             |  | 37   |
| State A-1                    |  |             |  |  |
|                              | D  | 36          | 24   | 24   |
| clair Oil & Gas Company      |  |             |  | 36   |
|                              | 0  |             |  |  |
| Crosby B-1                   | N  | 29          | 25   | 37   |
| State 157 8-1                | G  | 28          | 25   | 37   |
|                              | <b>V</b>   | 32          | 24   | 37   |
| ly Oll Company<br>Marrell #3 | 1  | 49<br>14    |  | 37   |
| ALL ALL AL                   |  |             | ,  |  |
| HI Company                   |  | <b>6</b>    | 25   | 37   |
| achert #2                    |  |             |  | <b></b>  |
|                              | 7  |             |  | ~  |
| ton & Cone                   | •  | 20          | 25   | 37   |
|                              | an a   |             | an an an Araba<br>Araba  |  |
| a American Nevers #1         |  |             |  |  |
| tes Petroleum Company        | <b>44</b>  | 22          | 24   | 🛥 👘  |
|                              |  | 21 P.       |  |  |

- 2 -

Form 15-166R (5-58)

#### EL PASO NATURAL GAS COMPANY State of New Mexico One-point Back Fressure Test for Gas Wells (Deliverability)

EXHIBIT NO.

Pool JalmatFormationYatesCountyLesInitialAnnualSpecial:Date of test4/1-8/60CompanyJal Oil CompanyLeaseWatkinsWell No.2Unit HSec.35Twp.24Rge. 36Purchaser El Paso Natural Gas CompanyCasing5 1/2Wt. 15.5I.D.Set at2982Perf.ToTubing2Wt.1.47I.D.Set at2869Perf.ToGas Pay:From29/12To2951L 2869x G.666= GL 1911Bar. Press 13.2Producing Thru:CasingTubing XType WellSingleSingle - Bradenhead-G.G. or G.O. Dual FLOW DATA Taken Started Type Line Orfice Static Differ-Duration Flow Taps Size Press. Hours Size ential Temp. Date Time Date Time 4-4-60 8:45 AM 4-5-60 8:45 AM 24 119 80 Flg. Ŀ 1.000 19.36 PM PM FLOW CALCULATIONS Differ-Static Meter 24-Hour Gravity! Temp. Rate of Flow Compress-MCF/Da @ 15.025 psia Pressure ential Extension Coeff-Factor Factor ability Q hw icient Fg Pf pf hy Ft Fpv 19.36 132.2 50,59 6,135 ,9491 9813 2,011 292.3 SHUT-IN DATA FLOW DATA W.H. Working Pressure Duration Wellhead Pressure Press. Taken Shut-in (Pc) psia Date  $(P_w)$  and  $(P_t)$  psia Time Date Time Hours Tubing Casing Casing Tubing Operator Dig jot AM AM Bad Valve 100.2 not want well shut PM PM in FRICTION CALCULATION (if necessary) SUMMARY Fel \_ psia BEFORE MCF/Da. ۵ DELIVERABILITY CALCULARY psia Pc  $P_d =$ psia CASE Pw D MCF/Da. 3 - $\overline{P_c}$ Pc Pc -Log .36 + M .777 x (n)Company Kl Paso Matural Gas Company Address P. O. Bax 1384 - Jal, Hew Maxico Log Q = Agent and Title Bole Gas Tester Log D Witnessed Company Antilog = D REMARKS

"Operator Did not want wall shut-in.

N. MARKA

FORM 15-166R (5-58) E PADO RAPIDAL CAS CONFANY State of Nev Sexigo EXHIBIT NO One-point past Process Test for Cas Wells (Deliverab(lif.v)) PoolJenetFormationYatesCountyInitialAnnualSpecialDate of test2-20/2-27-59CompanyJal Oll ConneanyLeaseHatkinsWell No. 2UnitHSec. 35Twp. 24Ngs. 36Purchaser El Paso Natural Gas CompanyCasingJWt. 15.51.D.Set at 2982Perf.Tubing2Wt. 15.51.D.Set at 2982Perf.Tubing2Wt. 1.7T.D.Set at 2869Perf.Oas Pay:From2042To2054I.Producing Thru:CasingTubingXG0.669= GLBar.PressYpe wellSingleSeriesA0Meter NunPacher atSingle - Bradenhead-G.C. or G. U. Dual Bar. Press 13.2 FLOW PATA Type Line Orfice Static Duration Flow Uiffer-Taken Started Date Date time Hours Taps Size Size Press. ential Temp. time 2-24 8:00 AM Flg. 8 00 AH 24 4# 305.2 1.000 51.84 67 2-29 PM  $\mathbf{PM}$ FLOW CALCULATIONS Rate of Flow Static Differ-Meter 24-Hour Gravity Temp. Compress-MCF/Da. @ 15.025 psia Coeffability Extension Factor Factor Pressure ential hw pf hw icient Eg Ft Fpv Q Pf 6,135 51\_84 0,9470 0.9933 1,030 747.3 305.2 125.8 FLOW DATA SHUT-TH DATA Taken W.H. Working Pressure (Pw)and(Pt) psia Shut-In Duration Wellhead Pressure Press. ('c) psia Date Time Date Time Hours fubing Casing Tubing Casing 843-2 " 2442 844.2 844.2 8:00 AM AM 25 2-21 220.2 357.2 639.2 26 84402 TI I РМ 山沙 PM 2.27 SUMMARY FRICTION CALCULATIONS(1f necessary) P.= <u>844.2</u> psia Pr Managerad 747.8 MCF/Da. DELIVERABILITY CALCULATIONS Pu= 639.2 psia Pd= 6754 Pw Pc 811.2  $P_{W} + P_{C} = 0.7572$ , psia 2+ Pw 1- Pw  $P_W | |_1, P_W | = 11.$ D = 650,8 MCF/Da.  $\left| \frac{1}{P_{c}} \right| \left| \frac{1}{P_{c}} \right|$ Pc Pc 0.126 1.75% 36 + H 0.4/30 Log **9. (n)** x (n) - 9.939633 - 10 0.819 Log Q = 2.873786 Company Dars 1. Mile - Mile . Marrier address diao Agent and Title Log D = 12.813418 - 10 Marinan Nitnessed Antilog Company County & the REMARKS

Went this well did not have any pressure on 72 hour shutuen.

 $\left\{ \cdot \right\}$ 

FORH 15-166R (5-58) C J. 1230 HAPHEAL GAS CONFRING One-point Back Program Test for Gas Mells State of New Sexies 

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 Casing
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 Press 13.2

11-10-58 Type Hours 8 100 AM Line 11-11-58 Taps Orfice Size Static 8:00 AH Size Differ-Press. Flow 24 ential P1.1 ng. 4. Temp. ΡM 1.500 256.2 Static 43.56 Differ-Pressure Meter FLOW CALCULATIONS 85 ential 211-Hour Extension ₽£ Gravity hy Coeff\_ Pr hw Temp. Factor 256.2 Compressicient 43,56 Factor Rate of Flow 105-64  $\mathbb{F}_{\underline{\mathcal{K}}}$ ability MCF/Da. @ 15.025 psia 13.99  $_{t}$ Fpv •9535 Shut-In .9768 SHUT-IN DATA Talcen | Du 1.022 Date Press TINO 1,406 Duration | Wellhead Pressure Date Time 11-11-50 FLOW DATA 8 100 AM 11-12-50 (<sup>P</sup>c) psia W.H. Working Pressure Tubing 22-23-58 (Fw)and(Ft) psia 8:00 AM 24 Casing 11-14-50 723.2 Tubing 48 ΡM 728.2 712.2 Casing 72 РM 633.2 FRICTION CALCULATIONS(if necessary) 745.2 376.2 747.2 584.2 Py Nessured, SUPPLARY DELIVERABILITY CALCULATIONS 747.2 **Sh.2** psia 1,406 P<sub>c\_</sub> 0 -747 -2 MCF/Da. 1\_ P\* PW Pw + Pc\_ 584.2 P 14 .7818 C 36 psia Pc ₽**₩** 1.7818 597.8 Pa=  $\overline{P_{C}}$ Log 9.966561-10 = M. P<sub>c</sub>/ Company El Page Heteral Gas Company Address Agent' and Title Box 1384 - data New Marico psia D = 1,320 3888 x(n)MCF/Da. 212 9.972652-20 Mitnessed Conpany Log Q = 3.147985 Log D = 13.120637 Antilog REMARKS. 1320 D

| Foria 15-100 (9-54)  | MIR 71-00  | EL PASO NATU               | SSURE TE           | ST FOR GA  | SWELLS                                   | I.en   | 2<br>        | ›<br>                 |                        |
|--|--|----------------------------|--------------------|------------|--|--|--------------|-----------------------|------------------------|
|  |  | mation Ya                  | tos                |            | County                                   | and the second s | 22-58        | • • • • • • • • • • • |                        |
| ocil Jalmet  |  | Sra                        | ecial              |            | Date of                                  | of Test  | 2            |                       |                        |
| the safety and the same to prove to prove the same to prove to pro | Annual   |                            | Wetkin             |            |  | Well No  |              |                       |                        |
| Jal 011 Comp   | any, Inc.  | Leuse                      |                    |            | 1set                                     |  |              |                       |                        |
| Sec. 3   | 5 Twp. 24  |                            | e                  | Per        |  | To   |              |                       |                        |
| Unit   | 3.5 I.D.   | Set dt                     | 2982               | Per        | •  |  |              |                       | •                      |
|  | I.D  | Set a                      | 2869               | Per        | = GL                                     | Bar  | Press        | 13.2                  |                        |
| Tubing   | 2 7 29   | 24 L                       | × G                |            |  |  | ter i i      |                       | •                      |
| Gos Poy: From  | The state of the s | ling X                     |                    | Single-    | Bingle<br>Bradenhea                      | d-G. G. or G.  | O. Dual      |                       |                        |
| Producting Thru: Casing  | J  |                            | Packer             | lene       |  | مى<br>مەربىيە يېلىمىيە<br>مەربىيە يېلىمىيە يېلىمىيە ئىسى   |              |                       |                        |
| Durte of Completion:   | 22-25  |                            |                    | Tubing D   | ata                                      | Casing D   |              | Duration<br>of Flow   |                        |
|  | Flow Data  |                            | Témp.              | Press.     | Temp.                                    | Press  | Temp.<br>•F. | Hr.                   |                        |
|  | Press.   | D <b>Uf.</b><br>h <b>w</b> | oF.                | piaq       | •F.                                      | psig<br>1018   |              | 78                    |                        |
| Noi Litre Ela  |  |                            |                    |            |  | 1018<br>838  |              | 24                    |                        |
| 51   | 285  | 4.44                       | 81<br>88           | 660<br>507 |  | <u>688</u><br>583  |              | 24                    |                        |
| 1 4 x 2,000  | 312  | 11.56                      | 76                 | 140        | 1  | 793  | +            |                       |                        |
| 3. 4.2 2.000   | 193  |                            |                    | 5 53<br>   |  |  |              |                       | 1 ()<br>1 ()           |
|  |  |                            |                    |            | Gravity                                  | Compress   | R            | Q-MCFPD               |                        |
|  | 1.7.1  | Pressure                   | Flow T             | amb.       | Factor                                   | Factor   |              | 15.025 psid           | -                      |
| Coefficient  | Vhutor   | psia                       | F                  |            | Fo<br>.9608                              | 1,025  |              | 895<br>1507           | -                      |
| No (astion)  | 36.23  |                            | .960               |            | 9608                                     | 1.027  |              | 1644                  |                        |
| 25.58  | 61.30  |                            | .985               | 0          | 9608                                     |  |              |                       |                        |
| 3 85.98  | 65.99  |                            |                    |            |  |  | <u> </u>     |                       | <b>ب</b>               |
|  | 1.   |                            | <u> </u>           |            | Specific                                 | Gravity Separa   | ator Gas     |                       | <br>                   |
| Gros Liquid Haverocon  | bon Batio  |                            | Mct/bbl:<br>deg.   |            | Specific<br>Pc                           |  | P2           | 1063-4                |                        |
| Gravity of Liquid Hydrocan   | drocarbens (1-e-5) -   |                            |                    |            | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |  |              | P2 - P2               |                        |
|  |  |                            |                    | (F.0)2     | 1F e                                     | Q) <sup>2</sup> (1 <sup>™</sup> )  | P#           |                       |                        |
| 10   | ¥4. p2   | P2_P2                      | , F <sub>c</sub> Q | ·          |  |  | 724.5        | 338.9                 | <del>غيث</del><br>غيث  |
| Pr :-tpeta)  |  | 610.2                      |                    | 1.340      |  |  | 355.5        | 707.9                 |                        |
| 520.2  | 453.2<br>270.6<br>.805.4   | 102-8<br>858.0             |                    |            |  |  |              |                       |                        |
| in the   |  |                            |                    |            |  |  | 2.4          |                       |                        |
|  |  |                            | VERE               |            | .819                                     | Conducted 1<br>Witnessed 1   | Jy           |                       | سیسے<br>مشہور<br>در در |

SHERE WAR



| FORM 15-  | 166R (5-5             |   |                     | do marcal<br>algor di Nev  |   |              |  | RRECTED            | COPY            |   |
|---|-----------------------|---|---------------------|--|---|--------------|--|--------------------|-----------------|---|
| $\sqrt{1}$  |                       | G   | sc-point bu         | ar fressar<br>(felivers)   | e Test  |              |  |                    |                 | -   |
| $\wedge$  |                       |   |                     |  |   |              |  | -                  |                 | ),  |
|   | alaat                 | A   | ormation            | Tates  |   | Cot          | mty  | Lea                | 20/00           | h da u para gan gaya geredarin taka dan saher |
| Company   | Jal 011 C             | onpany .  |                     | Lease (  | Wens  | alam<br>Alam |  | wel                | -19/59<br>1 No. | 3   |
| Jnit M  | Sec.                  | 21 TM   | . <u>25</u> II      | E 37   | Purcha  | cor g        | Paso Na  | tural ua           | a Company       | Y   |
| Jasing  | 5 yit.                | 15.5 1.   | μ.<br>              | Set at<br>Set at   | 2582  | Fer<br>Per   | cf. of   | 760                | To              | 770   |
| Jas Pay:  | From 27               | 59 To   | 2772                | Yates    Special    Lease    gs.    37    Set at    1    2769    X   | XG  | .662         | - GI.  | ·····              | Bar. P          | ress 13.2                                     |
| roducing<br>Series  | ; Thru: Ca<br>Lo Mote | sing<br>r dun P   | Tubing .            | Турс   | e Jell<br>Sinv  | Sing         | le<br>Iradenhea  | d-G.G. 0           | r (j. (j. )     | Öval  |
|   |                       |   |                     |  | 2222 223  |              |  |                    |                 |   |
| C4 -  | rteà                  | T.  | iken                | FLOW D/<br>Duration  |   | 11400        | Toreloo  | Statio             | Di ffor-        | Flou  |
| Date  | time                  | and the subscreen second se   | time                |  | Taps  |              |  |                    | ential          | Temp.   |
|   |                       |   |                     | and an and a second |   |              |  |                    | [               |   |
| 3-9-59  | 9:15 AM               | 3-10-59   | 9:15 AM             | 24   | Flg.  | 4            | 1.000  | 108.2              | 57.76           | 66  |
|   | PM                    |   | PM                  |  | L   |              |  |                    | 1               |   |
|   |                       |   | ,                   | FLOW CALCUI  | ATTONS  | -            |  |                    |                 |   |
| Static  | Differ-               |   | 24-lour             | Gravity  | Tem   | p. [C        | Compress-  |                    | e of Flor       |   |
| Pressure  | 1                     | Extensio  | on Coeff-<br>icient | 1  | ,   | 1            | ability  | HCF/Da             | . @ 15.0        | 25 psia                                       |
| Pf  | hw                    | Pf h <sub>W</sub>   | LCLENT              |  | - <u>Ft</u>   |              | F <sub>pv</sub>  |                    |                 |   |
| 106.2   | 57.76                 | 79.05   | 6.135               | .9520  | .99   | 243          |  | 159                | 1               | . · · · · · · · · · · · · · · · · · · ·       |
|   | -                     |   | SHUT-IN             | ከለምራ   |   |              |  | F                  | LOW DATA        |   |
| and the second se | t-In                  |   | s. Taken            | Duration   |   |              | ressure  | W.H. WO            | rking Pro       |   |
| Date  | Time                  | Date  | Time                | Hours  |   | c) psi       | a<br>Casing  |                    | nd(Pt) p:       |   |
|   |                       | 3-11-5  |                     | 24   | +   | <u></u>      | 416.2  |                    |                 |   |
| 3-10  | 9:15 AM               | 3-12-5  | 9 9:15 AM           | - <u>48</u><br>72  | *   |              | 429.2  | 126.               | .2              | 290.2   |
|   | PM                    |   | PM                  |  |   |              | 434.2  |                    |                 |   |
|   |                       | DTOMPONE  | AT OUT APPTON       | S(if necess  |   |              |  |                    | SUMAR           | 1993<br>1997<br>1997                          |
| n de la desta.<br>No de la desta de la  |                       | NTOLION C   | NPO OTH L'S ON      | -  |   |              |  |                    | OULDU.          | •   |
| <u>P.N</u>  | Magured               |   |                     |  | EFORE TH  | IE MAUSS     | ION  | Pc* -              | 434.2           | psia  |
|   | 2.<br>2. C            |   |                     | < r013   | 1. C. 1913  | 1 cyn a      | 10   | 2 <b>-</b> .       | 159-1           | MCF/Da.                                       |
|   |                       | in the second second<br>Second second  |                     | SALL   | 1   | 1 -          |  |                    |                 |   |
|   |                       | DELIVER   | ABILITY CA          | LOULATIONS   | Il.Y  | frank        | e de la constance de la constan<br>La constance de la constance de | "¥"                | 290.2           | psia  |
| 290.2   |                       | Pc  | 434.2               | PASE - T   | ¢   | 6683         |  | P <sub>d</sub> = 3 | li7.ali         | psia  |
| Py  |                       | P.W   | k                   | Pw / h+Pv  |   |              |  |                    |                 | MCF/Da.                                       |
| Pc  | 3317                  | 1.*   | 668                 |  |   |              |  |                    | 329.6           | - noryba.                                     |
| 6 + N   | .4506                 |   | 9.81331-1           |  |   | in           |  | = _9               | .85606-1        | 0   |
| · · · · · · · · · · · · · · · · · · ·   |                       | -   |                     | · · · · · · · · · · · · · · · · · · ·  |   |              |  | <i>4</i> 0 -       |                 |   |
| mpeny<br>dress  | P.C.M                 | And a state of the second | Gas Compa           |  |   |              | - TO   | ť <b>? -</b>       | 2.66191         |   |
| ent and   |                       |   | WK SH               | Ben Trint  |   |              | Lo   | g D =              | 12.51797        | 10  |
|   |                       | 1   |                     | J  |   | -            | - Antilo   | or =               |                 | = D   |
| thessed   |                       |   |                     | -  | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |              | <u></u>  | ບ 🎵 🛄              | 329.6           | = 1)  |
| anessea   |                       |   |                     | LEFAIJ   | 2   | ( G          |  |                    |                 |   |

Form 15-166R (5-58)

#### EL PASO NATURAL GAS COMPANY State of New Mexico One-point Back Préssure Test for Gas Wells (Deliverability)

EXHIBIT NO.

| Pool       | Jalmat                                      | Fo             | rmation  | Yates             |          | Ċo      | unty L                                | BR                                    |            |                          |
|------------|---|----------------|--|-------------------|----------|---------|---------------------------------------|---------------------------------------|------------|--------------------------|
| Initial    |   | Annual         |  | Special           | I.       | Det     | te of tes                             | it 5-16                               | -58        |                          |
| Company    | Jal 011                                     | Company        |  | Lease Or          | ens      |         |                                       | Wel                                   | 1 No. 1    |                          |
| Unit M     | Sec. 2                                      | l Twp          | . 25 R   | ge . 37           | Purcha   | aser E  | 1 Paso Na                             | tural Ge                              | S COMDAIN  | 7                        |
| Casing 5   | 1/2 Wt.                                     | <u>15.5</u> I. | D4.976   | Set at <u>258</u> | 2        | Per     | f. Open                               | Hole                                  | To         |                          |
| Tubing 2   | 1/2 Wt.                                     | <u>6.5</u> I.  | D2.111   | Set at 277        | 2        | Per Per | f. 2769                               |                                       | To 2772_   |                          |
| Gas Pay:   | From  | 2605 To _      | 2772   | L 2769            | _ x G .  | 670     | = GL                                  | 1855                                  | Bar. P.    | ress 13.                 |
| Producin   | g Thru: C                                   | asing          | Tubing   | Тур               | e Well   | Sin     | gla                                   | •                                     |            |                          |
| Series     | Mete  | r Run Pa       | cker at  |                   | Sing     | gle - H | Bradenhea                             | d-G.C. o                              | r G.O. D   | ual .                    |
| · ·        | a na sa |                | *****  | FIO               | DATA     |         |                                       |                                       |            |                          |
| Star       | ted   | Tak            | en   | Duration          |          | Line    | Orfice                                | Static                                | Differ-    | Flow                     |
|            | Time  | Date.          |  | Hours             |          |         |                                       |                                       | ential     | 1                        |
|            |   |                |  |                   | <i>-</i> |         |                                       |                                       |            |                          |
| 5-12-50    | 8125 AM                                     | 4-13-58 8      | 125 AM   | 24                | ng.      | ų       | 1.250                                 | 113.2                                 | 25.00      | 70                       |
|            | PM  |                | PM   |                   |          |         |                                       |                                       |            |                          |
| <u>.</u>   | *<br>                                       | مر بر الم      | J  | FLOW CALCUI       | ATIONS   | 5       |                                       |                                       | •          |                          |
|            |   | Meter          | 24-How   | r Gravity         | / Temp   | . C     | ompress-                              |                                       | ateoof F   |                          |
| Pressure   |   | Extension      | Coeff-   | Factor            | Facto    | r       |                                       |                                       | @ 15.025   | o psia                   |
| Pf         | h <sub>w</sub>                              | Pf by          | icient   | Fg                | Ft       | · · · · | Fpv                                   |                                       | Q          |                          |
| 113.2      | 25.00                                       | 53.15          | 9.643  | •9463             | .990     | 5       | 1.010                                 | 485                                   | ·          | ۱۹۹۹ و محمد و مدید اور ا |
|            |   |                | SHUT-IN  | DATA              |          |         |                                       | F                                     | LOW DATA   |                          |
| Shut-      | -in   | I Press.       |  | Duration          | Well     | head P  | ressure                               |                                       |            | ssure                    |
| Date       | Time  | Date           |  | Hours             | (P       | c) ps   | 1ค                                    | (Pv) (                                | and (Pt)   | DSIA                     |
|            |   | 2              |  | inour 5           | Tub      | ing     | Casing                                |                                       |            |                          |
|            | 1   | 5-24-58        | }  | 24                | 413      |         |                                       |                                       |            |                          |
| 5-13-58    | 8-25 AM                                     | 5-15-58        | 8:25 AM  | 48                | 420.     |         | i                                     | 227.2                                 |            |                          |
|            |   | 5-16-58        |  | 72                | 425.     | 2#      |                                       |                                       |            |                          |
|            | PM  | * *<br>*<br>   | PM   | 1                 |          |         |                                       | کا<br>محمد مصنع مار مار               |            |                          |
| . •        | F   | ICTION CAL     | CITATION   | lif nonana        |          | • }     |                                       |                                       | CINGINE    | v                        |
| <b>A</b> . | ·   |                |  | ( TT MECESS       | u y)     |         |                                       |                                       | SUMMAR     | .1                       |
| Pw 51      | .6+(8.12)                                   | (.120)-52.     | 6  |                   |          |         | `                                     | $F_c =$                               | 425.2*     | psia                     |
|            |   |                |  |                   |          |         |                                       |                                       |            |                          |
|            |   |                |  |                   |          |         | · · · · · · · · · · · · · · · · · · · | Q =                                   | 485        | MCF/Da.                  |
|            |   |                |  | ·····             |          |         |                                       |                                       |            | ,                        |
|            | •   | DELIVERA       | BITLLLA CY   | LCULATIONS        |          |         |                                       | $P_W = $                              | 229.4      | psia                     |
| 229.4      |   | P <sub>c</sub> | 425.2  | P <b>v</b> +      | Pc       | .5395   |                                       | P.d =                                 | 340.2      | psia                     |
| P          |   | P.             | 1  | P. L P            | 1        |         |                                       |                                       | 288        |                          |
| P. 14      | . I   | + <u>P</u>     | ₽-<br>₽-   |                   | - ] =    | M. ,    | 089                                   | D =                                   | 288        | MCF/Da.                  |
| - C - 400  |   | Pc 1.53        |  | fe '   fe         |          |         |                                       | ·                                     |            |                          |
| + N        | 5078  | LOB            | 7056927  | <u>10</u> x       | (n)      |         | 71+++                                 | = Z.                                  | 730891-1   | Q ·                      |
|            |   | ural Gas Co    |  |                   | ·        |         | Lo                                    | g Q = 2                               | 6857417    |                          |
|            |   | 304 - Jel,     |  |                   |          |         | -                                     |                                       | 2.4588308  |                          |
| nt and T   |   | . D. South     | the second s | Tester            |          |         | . Io                                  | g D =                                 | · •4700300 | -10                      |
|            |   | wid H. Dye     |  |                   |          |         |                                       |                                       |            |                          |
| peny       |   | L Paso Mata    | ma] Gas /  | CONTRACTOR NO     |          |         | Antilog                               | · · · · · · · · · · · · · · · · · · · | 868        | 2                        |

Form 15-166R (5-58)

|                 |                  | - 1)-100H  | (5-58)         |   | EL PASO N                              | America -     |              |                    |           |           |                     |
|-----------------|------------------|------------|----------------|---|--|---------------|--------------|--------------------|-----------|-----------|---------------------|
|                 |                  | ·**        |                |   | EL PASO N<br>State                     | ATORAL        | GAS CON      | APANY              |           |           |                     |
| 2               |                  |            |                | One-poi                                       | nt Back Pro<br>(Del:                   | of New        | Mexico       | )                  |           |           |                     |
|                 |                  |            |                |   | (701)                                  | essure [      | lest fo      | r Gas W            | e]]s      | EXHIBIT   | NO                  |
|                 | Pool             | Jalma      | t              | Formation                                     | (Det.                                  | lverabil      | lity)        |                    |           |           | 410,                |
|                 | Init             | lal        | Λ              | Formation<br>nual X<br>Twp. 25                | n Yates                                |               |              |                    |           | •         |                     |
|                 | Compe            | my Jal     | CH1 Com        | iual_X  | Specia                                 | }             | C            | ounty 1            | ea        |           |                     |
| 2               | Unit             | H Sec      | 31             | <b>V</b>                                      | _ Lease                                | TAN           | De           | ate of t           | est L     | 1 8/60-   |                     |
|                 | Casin            | 8 6 5/8 W  | t. 10 c        | Twp. 25<br>I.D.<br>I.D.<br>Tubir<br>Packor of | Rge. 37                                | Pinal         |              |                    | 44<br>We  | 11 1      |                     |
|                 | Tubin            | 8 2 1/2 W  | t              | 1.D.  | Set at                                 | rurci<br>2709 | naser_       | Paso               | Natural ( |           | 3                   |
| 는<br>같<br>스     | Gas P            | ay: From   | 201.5          | 1.D.  | Set at 2                               | 5126<br>060   | Pe           | rf.                |           | m.        | uy                  |
|                 |                  |            |                |   |  |               |              |                    |           |           |                     |
| 2.<br>2.5<br>24 | Series           | 90 Me      | tar Bu         | Tubir   | Ig X Tu                                | A U           | •000         | = GI               | 2013      | 10        |                     |
| i.              |                  |            | wer nun        | I.D.<br>To <b>2977</b><br>Tubir<br>Packer at  |  | te wett       | Sin          | gle                |           | par. 1    | ress 13.2           |
| í.              | 1                |            |                | Tubir<br>Packer at                            |  | oin           | $g_{16} - 1$ | Bradenhe           | ad-G.G.   |           |                     |
|                 | St               | arted      | · · · · ·      | The tax                                       | FL                                     | W DATA        |              |                    |           | - G.O. D  | ual                 |
|                 | Date             | Time       |                | raven   | Duration                               |               |              |                    |           |           |                     |
|                 |                  |            | Date           | Time  | Hours                                  | Taps          | Line         | Orfice             | Static    | Differ-   | 100                 |
| 1               | مراجع ا          | 0 11:30 AN |                |   | 1                                      |               | Size         | Size               | Press.    | ential    |                     |
|                 |                  |            | 4->-00         | 11:30 AM                                      | 24                                     | P1.           |              |                    |           | chular    | Temp.               |
| 2               | L                | PM         | 1              | ;   |  | Flg.          | 4            | •750               | 180 1     | 22 0      |                     |
| ÷.              |                  |            |                | PM  |  |               | 5. S.        |                    |           | 23.04     | 84                  |
| 100             | 1                |            |                | ,   | in a sina a ana ang                    | ·             |              |                    |           |           |                     |
|                 | Statio           | Differ     |                |   | FLOW CALCUI                            | ATIONS        | -            |                    | 5         | ·         | }                   |
| 11 H            | Pressure         | ential     |                | 24-Hou  | n i America                            |               |              |                    |           |           |                     |
|                 | Pf               | hw         | 1              | n Coeff-                                      | Factor                                 | lemp.         |              | mpress-            | D-        |           | eres and the second |
| 1               |                  |            | Pr hw          | icient  | Fg                                     | ractor        |              | bility             | MCF/D     | te of Flo | w E                 |
|                 | 193.2            | 23.04      | 66.72          |   | •••••••••••••••••••••••••••••••••••••• | Ft            | F            | pv                 | HOL/DE (  | € 15:025  | Psia                |
|                 |                  |            | 100.12         | 3-435   | •9393                                  | .9777         | 1            | 1                  |           |           |                     |
|                 |                  | -          |                | ()779 yrm                                     | · · · · · · · · · · · · · · · · · · ·  | •////         | 1.01         | <b>19</b>          | 214.5     |           |                     |
| 1 S             | Shut-            | ·in        | Pros           | SHUT-IN                                       | DATA                                   |               |              |                    |           |           | -                   |
|                 | Date             | Time       | Tress.         | Taken   | Duration<br>Hours                      | Volla         |              | 1 (m. 14)          | FLO       | DATTA     |                     |
|                 |                  |            | Date           | Time  | Hours                                  | Net TUG       | ad Pres      | ssure W            | H. Work   |           |                     |
| (A))            |                  |            | 1.60           |   | nouis                                  | (rc)          |              |                    | (Br) and  | $(P_t)$   | ure                 |
|                 | 4-5-60           | 11:30AM    | 4-6-60         |   | 24                                     | TUDIN         | K Ca         | sing               | Tubing    |           | 81 <u>8</u> :       |
|                 |                  |            | 4-7-60         | 11:30 AM                                      | 48                                     |               | 201          | .2                 |           | Cas       | ing                 |
|                 | and the state of | PM         | 4-8-60         | 1 7   | 72                                     |               | 28           | 1.2                |           |           | <b>-</b>            |
|                 |                  |            | · · · ·        | PM  |  |               | 287.         | 2                  |           | 19        | 5.2                 |
| *               |                  | FRI        | CTTON CAL      | CULATION (1                                   |  | · · · · ·     |              | MMISSION<br>LICUCO |           | į         | j                   |
|                 |                  | 2          | a will         | CULATION (1                                   | f necessar                             | v)            | a.           | Incsion            | 1         |           |                     |
| 7               | P                | -(195.2    | ) + (5.866)    | (27) -22                                      |  | <b>J</b> ) :  | E THE        | MACICO             |           | UMMARY    |                     |
|                 |                  |            |                | (214.5) <sup>2</sup> (0.                      | 129)-38.30                             | af            | OKCHU        | MELLE NO.          |           | UMMARI    |                     |
| j               |                  |            |                |   |  |               | W. C.F.      | FIL MONT           | c = 287   | .2        |                     |
|                 |                  |            |                |   |  | OIL SANTA     | Les On       |                    |           |           | psia                |
| 5               |                  |            | DELTUPPAD      | **  |  | OIL SHI.      | All          | $\leq 1$           | = 214     | 5         |                     |
| Pw              | a strange        |            | - CIVED        | ILITY CALCU                                   | LATIONS                                |               | TH           |                    |           | MCF       | /Da.                |
|                 | 195              | .7         | <b>F</b> _     |   | -                                      | CASE          |              | Р                  | . = 195   | .7        |                     |
| P               |                  |            | 2              | 7.2   | $P_w + P_c$                            | Con 1         |              |                    | W         |           | psia                |
|                 |                  | 1 +        | P <sub>W</sub> | 1   | 1                                      | .681).        |              | P                  | _ 229.    | 8         |                     |
| Ē               | c316             | 6 + +      |                | 1. Pw   | B. P. I                                |               |              |                    | 1         |           | Psia                |
| • 36 +          | M672             |            | ~ <u>+</u>     |   |  | = M.          |              | D                  | - 169     | •         |                     |
|                 |                  |            | Log8           | 27636-10                                      |  |               | -5356        |                    | = 158.    | h MCF/    | Da.                 |
| Compan          | 17               | -          |                |   | x (n)                                  |               | •763         |                    | - 9.8683  |           |                     |
| Addres          |                  | A Paso     | Matural G      | as Company                                    |  |               |              |                    | - /       | 04-10     | •                   |
| Agent           | and mitt         | r. 0. B    | - 1381 -       | Jal, Men Ma                                   |  | 3             |              | <b>•</b> • •       |           |           | •                   |
| Witness         | eed sature       | Dal        | by Bo          |   | 00-                                    |               |              | Log Q              | = 2.331h  | 27        |                     |
| Company         |                  |            | 0              | 8   | Gas Test                               | 87            | ·            | T                  | 10        |           |                     |
|                 |                  |            |                |   |  |               | -            | Log D              | - 12,1997 | 59-20     |                     |
|                 |                  |            |                |   |  |               | - Antil      | 0.0                | 1 62      |           | -                   |
|                 | •                |            |                | R   | EMARKS                                 |               |              | UK S               | = 158.4   |           |                     |

FORM 15-166R (5-58) 1. LAR RAINAL CLA CARLERY State of New Axies X the print back Property Test for Gas Holls 

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Bar. Press 13.2 Duration Type Line Date time Hours Orfice 3-9-59 Taps Size Static AM 3-20-59 Differ-Size Flow Press. AL ential 24 Flg. Temp. 115 PM 4 1.250 45 130.2 PM 9.00 75 Static Differ-FLOW CALSULATIONS Pressure Meter 24-!!our ential Extension Gravity Pf hw Coeff\_ Temp. Factor Compress-Pf h<sub>W</sub> Factor Rate of Flow icient ability Pr. MCF/Da. @ 15.025 psia 130.2 2.00  $r_{t}$ Fpv 34,23 9.643 .9318 9859 Shut-In 1.012 SHUT-IN DATA Date Press. 307.0 Taken Time Duration Date wellhead Pressure Time FLOW DATA Hours W.H. Working Pressure (Pc) psia Tubing Casing (Pw)and(Pt) psia AM Tubing AM Casing PM 4 137.2 PM FRICTION CALCULATIONS(if necessary)  $P_{w}^{2} = (1.7.2)^{2} + (5.866 \pm 307.0) = 19.2$ SULLIARY 209.2 DELIVERABILITY CALCULATIONS DSIA Pw 307.0 MCF/Da. 130.6 Pc 209.2 1- Pw Pw \_\_\_\_\_138\_6  $P_W + P_C$ 1+ Pw Pc psia e6625 Pd= 167.4 Pw Pw Pc 1.661 .36 + 1 h. = И. Pc Pc Psia Log 9.00713-10 D = 218.8 5613 MCF/Da. Company Address x(n)El Pago Mataral G 763 2.85284-10 Agent and Title P. O. Bax 134 Tieg Log Q = Company 2.48734 Me Tester Page Matarial Log D - 12.33998-10 tran R. Ot Antilog 0. I well could not be shat-in due 218\_8 mter loggin

Form 15-166R (5-58)

# EL PASO NATURAL GAS COMPANY State of New Mexico One-point Back Pressure Test for Gas Wells (Deliverability)

|                |  | _  |   | tes   |             | Cou       | nty Lea   |                   |             | a fee and the attraction of the second second  |
|----------------|--|--|---|---|-------------|-----------|-----------|-------------------|-------------|--|
| Pool           | Jalmat   | For  | mation 1  | Special X<br>ease Dy  |             | Dat       | e of test | 4-18              | 3-58        | a and a second second second   |
| Initial        |  | Annual   | T   | ease D  | /8 <b>%</b> |           |           | Well              | No. 3       | and the second |
| 0.0000011      |  |  | and a subscription of the |   |             | <b>R1</b> | Deen Not  | NTS ( UAU         | S COMPENY   |  |
| Unit H         | Sec  | 31 Twp.  | 47 R  | $\begin{array}{c} ease \\ ge \cdot 37 \\ Fot at \\ control at $ | 92          | Per       | f.        |                   | Го          |  |
| Casing 6       | 5/8 Wt.1   | 9.5 I.D  | 0 117   | Set at 279<br>Set at 29<br>L 2792   | 50          | Per       | f. 2800   | ۲<br>             | $r_0 = 297$ | 4  |
| Thibing 2      | 1/2 Wt. 9  | •2 1.1   |   | 0700  | V G         | 680       | _ = GL ]  | 1899              | Bar. Pr     | ess 13.2   |
| Gas Pay        | : From _29   | 15 To  | 911   | Set at 22<br>L 2792<br>X Type   | Well        | S11       | ngle      |                   |             | the second s   |
| Producin       | ng Thru: Ca  | asing  | Tubing  | <b>X</b> Type   | Sing        | le - E    | radenhead | 1-G.G. 0          | r G.O. Du   | al   |
| Series         | Mete:  | r Run Pac  | ker at _  |   |             |           |           |                   |             |  |
|                |  | n and an and a second sec |   | FLOW  | DATA        |           |           |                   |             | I El au  |
|                |  |  |   | Duration  | Type        | Line      | Orfice    | Static            | Differ-     | Flow   |
| Sta            | rted   | Take   | • •   | Hours   | Taps        | Size      | Size      | Press.            | ential      | Temp.  |
| Date           | Time   | Date   | Time  | 10010   |             |           |           |                   |             |  |
|                |  |  | ~ · ~   | 24  | Flg.        | L         | 1.250     | 108.2             | 19.36       | 70   |
|                | 8 8:45 AM  | 4-15-58  | 8:45 AM   | _ 24  | LTQ+        | 4         |           |                   |             |  |
| はールーン          | 0  |  |   | 1   |             |           |           |                   |             |  |
|                | PM   |  | PM  | العاديقيوني الراران   |             | 3         | I         | ····              |             |  |
| · .            |  |  |   | FLOW CALCUL   | ATIONS      | ;         |           |                   |             | الأحجا والمستعين   |
|                |  | مر الم و ورا ال الم الم  |   |   |             |           | Compress- | i F               | late of F.  | Low  |
| Stati          | c Differ-  | Meter  |   | ur Gravity  | Temi        |           | ability   | 1. /              | @ 15.02     | 5 psia   |
| Pressur        |  | 1 .  | Coeff-  |   |             |           |           |                   | ù Č         |  |
|                |  | pf hw  | icient  | ; Fg  | Ft          |           | Fpv       |                   |             |  |
| Pf             |  |  |   |   | -           |           |           | 1                 | 10          |  |
| 108.2          | 19.36  | 45.72  | 9.643   | •9393   | 9905        |           |           |                   |             |  |
| 100.42         | 12/0/0   |  |   |   |             |           |           |                   | FLOW DATA   |  |
| •              |  |  |   | IN DATA   | T Hall      | boad      | Pressure  | W.H. W            | orking Pr   | essure   |
| Chi            | ut-in  | Press.   | Taken   | and the second sec  | 1 Wer       | D:/ -     | osia      | (P <sub>v</sub> ) | and (Pt     | ) psia   |
| Date           | Time   | Date   | Time  | Hours   |             | bing      | Casing    |                   | 8           | Casing   |
| Dave           | 1  | - 1  |   |   | - F.,       |           |           |                   |             |  |
|                |  | 4-16-58  |   | 24  |             | 9.2       |           | 123.              | 2           |  |
| 4-15-5         | <r a<="" td=""><td></td><td></td><td></td><td></td><td>.2</td><td>*<br/></td><td></td><td>1</td><td></td></r>  |  |   |   |             | .2        | *<br>     |                   | 1           |  |
| - 4-47-7       |  | 4-18-58  |   | 72  | 108         | 946       | .*        |                   |             |  |
|                | 1:20 P   | M  | )), P   | M   | . :         |           |           | 1                 |             |  |
| <u>•</u>       | and the second s |  |   | - 1.0   | (110-00     |           |           | Í                 | SUMM        | IRY  |
|                |  | FRICTION CA  | ICULATIO  | N (if neces   | sary/       |           |           |                   |             |  |
|                |  |  |   |   |             |           |           | Fe =              | 229         | 2psia  |
|                | Pv 15.2+   | (5.81)(.122  | )=15.9  |   |             |           |           | -                 |             |  |
|                |  |  |   |   |             |           |           | Q =               | <u></u>     | MCF/Da.  |
|                |  |  |   |   |             |           |           | *                 |             |  |
|                |  |  |   |   |             |           |           | P                 | 126.        | lpsia  |
|                |  | DELIVE   | RABILITY  | CALCULATION   | 5           |           |           | *W                |             |  |
|                |  | Ð  |   | P., +   | Pc          | .55       | 12        | P <sub>d</sub> =  | . 183.      | h psia   |
| P.             | 126.   | 1 <sup>P</sup> c   | 229.2   | -W -  | . · ·       | •77       | <u></u>   | 1ª d              |             |  |
|                |  |  |   | 1 - 1 / -   | . 1         |           |           | D                 | - 218       | MCF/Da.  |
| Pw             |  | Pw   | <i></i>   | 1 - Pw   1+   | <u>v</u>    | = M.      | 6973      | U                 |             |  |
| 1- 5           | . <u>hh</u> 98   | - T P. 1.  | .5502   | $\nabla P_c / 1 $   | e I         |           |           |                   | 9.78091     | 3-10 +   |
| <sup>r</sup> c | · ····································   | - C <u></u>  | g 9.71290   | 21-10 x   | (n)         | ·         | .763      |                   | Y 100710    |  |
| .36 + M        | .5163  | W  | g Zelation  |   | • •         |           |           |                   | 2.612783    | 0  |
|                |  |  |   | _   |             |           |           | Log Q             | =           |  |
| Company        | El Paso  | Matural Ga   | s Compexe   |   |             |           |           |                   | 10 20272    | 82-10  |
| Address        | P. O. B  |  |   |   | ·····       |           |           | Log D             | _12.39372   |  |
| Agent a        | ad Title   | Le De Obe  |   | as Tester   |             |           |           | -                 | 248         |  |
| Witness        | ed   | Derid H.   | Drer  | Dee Comer   | <br>F       |           | Anti      | log               |             | <b>ع</b> : <mark>- جو در در د</mark>   |
| Company        |  | El Paso  | Beturel   | Gas Company   |             |           |           | ¥ .               | 1.1.1       |  |
|                |  |  |   | REMA  | rks         |           |           |                   |             |  |
|                |  |  |   |   |             |           |           |                   |             |  |

| For             | n 15+160 (9+54)  |                     | MULTI-PO                                 | 2 <b>%</b>                             | CK PRES   |                    |          |   | ELLS             | EXH                                   | UBIT NO      | <b>).</b>  |
|-----------------|------------------|---------------------|--|--|---|--------------------|----------|---|------------------|---------------------------------------|--------------|--|
| A<br>A<br>A     | Jalmat           |                     | For                                      |  |   |                    |          |   |                  | Les                                   | Ł            |  |
|                 |                  | ·                   | an a |  | *   |                    |          |   | •                |                                       |              |  |
|                 | nl               |                     |  |  |   |                    |          |   |                  |                                       |              |  |
| Com             | omy R. Olse      | , Personal          |  | Le                                     | use   | Dyer               |          | •   | We               | 11 No                                 | 3            |  |
| Unit            | Se               | c. 31T              | wp. 25                                   |  | Rge.  | 37 1               | Pi       | irchoser  | RING             |                                       |              |  |
| Casi            | ng 6-5/8         | /t. 19.51           |  |  | Set at  | 2792               | 1        | Perf  |                  | То                                    |              |  |
|                 | ng <b>24</b>     |                     |  |  | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |                    |          |   |                  | ander<br>Storage                      |              |  |
|                 |                  |                     |  |  |   |                    |          | $(\mathcal{F}_{\mathcal{F}}_{\mathcal{F}}_{\mathcal{F}}}}}}}}}}$ |                  |                                       |              | -  |
| Gas             | Pay: From        | <b>294</b> 2 To     | <b></b>                                  |  | 792   | x G                | .970     | = GL  | 18               | <b>71</b> Ba                          | r. Press.    | 13.2   |
| Prod            | ucing Thru: C    | asing               | Tubing.                                  | <b>X</b>                               |   | Тур                |          |   |                  | <u></u> ~                             | <u> </u>     |  |
| Date            | of Completion:_  | 7-11-54             |  |  | Pa  | cker:              | Single   | - Bradenh   | ead-G.           | G. of G                               | , U. Dual    |  |
| <u> </u>        |                  |                     |  | •<br>•<br>• • • • •                    |   |                    |          |   | T.               | · · · · · · · · · · · · · · · · · · · |              | <del></del>  |
|                 |                  | Flow D              |  | <u> </u>                               |   |                    | Tubing I | T   |                  | Casing D                              |              | Duration   |
| No.             |                  | JELIICO             | psiq                                     | Diff.                                  | Temp.   |                    | tess.    | Temp.   | Pn               | tsa.<br>siq                           | Temp.<br>•F. | of Flow<br>Hr.   |
| st              |                  | 5129                |  |  |   |                    | 5        |   |                  |                                       |              |  |
| 1.              | 4 1 1.           | 509 1               |  | 10.2                                   | 60  | 21                 |          |   |                  |                                       |              | 72<br>24   |
| 2,              |                  |                     | 74                                       | 12.3                                   | 62  | 1.8                |          |   |                  |                                       |              | 24   |
| 3.              | <b>4 x 1.</b>    | 500 1               | 53                                       | 15,2                                   | 64  | 17                 | 1        |   |                  |                                       |              | 24   |
| 5.              |                  |                     |  |  |   | +                  |          |   |                  |                                       |              |  |
| this<br>best    |                  | e vite a            | Garrett (                                | 911 Tec                                |   |                    |          | <b>it was</b><br>ravity   |                  |                                       |              |  |
| No.             | Coefficient      | 1 ,                 |  | sla                                    | 1   | Temp:<br>ctor      |          | actor   |                  | ptess.<br>actor                       |              | MCFPD  |
|                 |                  | Vhwpw               |  |  |   | <b>`t</b>          | +        | Fq  |                  | ру                                    |              | .025 psta  |
| 1.              | 13.99            | 42,57               |  |  | 1   | 9981               | .94      | 63  | 1.01             |                                       |              | 57 <u>4</u><br>644   |
| з.              | 13.99            | 50.25               |  | •••••••••••••••••••••••••••••••••••••• |   | 762                |          | 63  | 1.01             |                                       |              | 673  |
| 4               |                  |                     |  |  |   |                    |          |   |                  |                                       |              |  |
| 5.              |                  |                     | <u> </u>                                 | · · · ·                                | 1   | <u> </u>           |          |   |                  |                                       | 1            | د.<br>۲۰۰۷ - ۲۰۰۷<br>۲۰۰۰ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ |
|                 | iguid Hydrocarba |                     |  | Mcf                                    | /bbl.   |                    |          | ecific Gra  |                  |                                       |              |  |
| 2 <b>11</b> /11 | y of Liquid Hydr | ocorbons<br>()-e-s) | .129                                     |  | _deg.   |                    |          | ecific Gra  |                  | wing F I                              | P2           | 15.6   |
|                 |                  |                     |  |  |   |                    | <u> </u> |   |                  |                                       |              |  |
| No.             | Pt (2410)        | P2                  | * P <sup>2</sup> _P <sup>2</sup>         |  | <b>Q</b> 3  | (F <sub>e</sub> Q) | 2        | (F <sub>c</sub> Q) <sup>2</sup> (1-   | e <sup>6</sup> ) | ₽ <b>2</b><br>₩                       |              | p2 - p2  |
|                 | 294. 3           | 53.5                | 81.1                                     |  | 3.37  | 11.                | 36       | 1.36  |                  | 54.9                                  |              | 10.7   |
| 2.              |                  | 44.5                | 95,1                                     |  | 8.78  |                    | 29       | 1.71  |                  | 62.2                                  |              | 1.4  |
| 34              | 186.2            | 33.9                | 101.7                                    |  | 3.95  | 15.                | 10       | 1.87  |                  | 35.8                                  |              | 9.8  |
| 5.1             |                  |                     |  |  |   |                    |          |   |                  |                                       |              |  |
| <u> </u>        |                  |                     |  |  |   |                    | <b>I</b> | ·····   | ucted b          | <br>                                  | I. In        |  |
|                 |                  |                     |  |  |   |                    |          |   |                  |                                       |              |  |

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## JAL OIL COMPANY

Case 19-1/ EXHIBIT NO. 2

Future Recoverable Hydrocarbons October 1959

er 1959

Gross

|                                   |       |           |                      | The second se | Cumulated   |                       | Net                                     |                                       |
|-----------------------------------|-------|-----------|----------------------|---|-------------|-----------------------|---|---------------------------------------|
|                                   | Gross | No. Wells |                      | 12 Months   | 10-1-59     | Future                | Interest                                | Net Future                            |
| Wells                             | Acres | Oil Gas   | Ultimate             | Production  |             |                       |   |                                       |
| Les County, New Mexico            |       |           |                      |   |             |                       |   |                                       |
| Carlson Nos. 2 & 3                | 200   |           |                      | 201 001   | 448, 772    | 3, 578, 778           | . 654841                                | 2, 343, 530                           |
| HPGas - MCF                       |       | 2         | 4,027,550            | 301,091   | 110,110     |                       |   | 1A                                    |
| Christmas Nos. 1 - 5              | 320   |           | 340.000              | 12, 266 .   | 78,936      | 81,064                | . 363327                                | 29,450                                |
| Oil - Bbls                        |       | 3         | 160,000<br>422,000   | 50,740  | 69, 524     | 352, 476              |   | 128,060                               |
| LPGas - MCF                       |       | 2         | 8,866,420            | 220, 101  | 2, 422, 619 | 6,443,801             |   | 2, 341, 210                           |
| HPGAS - MCF                       |       | 2         | 0,000,120            | •   | · · ·       |                       | .041016                                 | 4, 130                                |
| Coll, A.P. (Dev Unit)             | 40    |           | 141, 540             | 3, 514  | 40, 766     | 100,774<br>21,050,004 | . 041010                                | \$63, 390                             |
| Oil - Bbls                        |       | 1         | 24, 886, 100         | 536, 434  | 3, 836, 096 | 21,050,004            |   |                                       |
| HPGas - MCF                       |       |           |                      |   | 1, 451      | 14.549                | . 875                                   | 12, 730                               |
| Covington-Federal<br>/ Oil - Bbls |       | 1         | 16,000               | 766   | 31, 958     | 471, 882              |   | 412,900                               |
| LPGas - MCF                       |       |           | 503, 840             | 23, 753   | 31, 750     |                       |   |                                       |
| Dyer NO.3                         | 160.  |           |                      | 1,083   | 87, 229     | 20, 271               | . 814323                                | 16, 510                               |
| Oil - Bbls                        |       | 2         | 107, 500<br>475, 000 | 13,938  | 151,974     | 323, 026              |   | 263,050                               |
| LPGas - MCF                       |       |           | 3, 436, 270          | 102, 493  | 787, 981    | 2,648,289             |   | 2, 1 <b>56, 560</b>                   |
| HPGas - MCF                       |       | 1         | 3, 430, 210          |   |             |                       |   | 273, 300                              |
| Farnsworth Nos. 1,2 & 3           | 240   | •         | 584, 500             | 30, 675   | 181, 476    | 403,024               | . 678125                                | 883, 150                              |
| Oil - Bbls                        |       | 3         | 1,957,330            | 171,930   | 655,016     | 1, 302, 314           |   |                                       |
| LPGas - MCF                       | -     | ,         | .,                   |   |             | 15 737                | . 875                                   | 31, 260                               |
| Gregory, L.L.                     | 80    | · •       | 60,620               | 1,862   | 24, 893     | 35, 727<br>358, 052   | . 617                                   | 313, 300                              |
| Oil - Bbls                        |       | -         | 516, 500             | 18,640  | 158, 448    | 350, 052              |   |                                       |
| LPGas - MCF                       | 120   |           |                      |   | 34, 680     | 21, 320               | . 7375                                  | 15, 720                               |
| Gregory, R.O.                     |       | 1         | 56,000               | 2,873   | 419, 358    | 734, 642              |   | 541,800                               |
| Oil - Bbls<br>LPGas - MCF         |       |           | 1, 154, 000          | 100, 872  | 417, 330    |                       |   | 2 · · ·                               |
| Gutman Nos. 1 & 2                 | 80    |           |                      | 2, 526  | 38, 351     | 48, 649               | . 375                                   | 18,240                                |
| Oil - Bbls                        |       | 2         | 87,000               | 33, 531   | 390,674     | 479, 326              |   | 179,750                               |
| LPGas - MCF                       |       |           | 870,000              | 33, 33,   |             |                       |   |                                       |
| Gutman "D" (Dev Unit)             | 40    |           | 172,020              | 3,094   | 43,977      | 128,043               | . 1875                                  | 24,010                                |
| Oil - Bbls                        |       |           | 25,010,370           |   | 3, 986, 869 | 21,023,501            |   | 3,941,910                             |
| HPGas - MCF                       |       | 1         | <i>23,010,310</i>    |   |             |                       |   | 64,900                                |
| Gutman - 18                       | 80    |           | 195, 320             | 6,283   | 111,407     | 83, 913               | . 773438                                | 209, 260                              |
| Oil - Bbls                        |       | 3         | 285,000              |   | 14, 438     | 270, 562              |   | 2, 143, 460                           |
| LPGas - MCF                       |       |           | 5, 375, 520          | 250,834   | 2,604,180   | 2, 771, 340           |   |                                       |
| HPGas - MCF                       | 80    |           |                      |   | 10 160      | 16,980                | . 807617                                | 13, 710                               |
| Harner No. 1                      |       | 1         | 32, 440              | 900   | 15, 460     | 10,700                |   | -                                     |
| Oil - Bbis                        | 160   |           |                      | ( 100   | 79, 863     | 99,697                | . 820313                                | 81,780                                |
| Hodge<br>Oil - Bbls               |       | 4 .       | 179, 560             |   | 2,200,017   | 448, 983              |   | 368, 310                              |
| LPGas - MCF                       |       |           | 2,649,000            |   | 417,975     | 7,688,705             |   | 6, 307, 140                           |
| HPGAS - MCF                       |       | 1         | 8, 106, 680          | 505,115   |             | -                     |   | ÷                                     |
| Jack                              | 160   |           | -) 119, 320          | 4, 711  | 68, 191     | 51, 129               | . 165                                   | 8, 440                                |
| Oil - Bble                        |       | 4         | 727, 990             |   | 429,927     | 298,063               |   | 49, 180                               |
| LPGas - MCF                       |       | 1         | 5, 747, 680          |   | 1,923,731   | 3, 823, 949           |   | 630, 950                              |
| HPGAS - MCF                       |       |           |                      |   |             |                       | . 783447                                | 25, 350                               |
| Jenkins NO. 1                     | 160   | 2         | 64, 300              |   | 31,949      | 32, 351               | . 103441                                | 682, 840                              |
| Oil - Bbls                        |       | •         | 1, 957, 500          |   | 1,085,913   | 871, 587              |   | 2, 308, 760                           |
| LPGas - MCF                       |       | 2         | 4, 716, 380          | 182, 216  | 1, 769, 459 | 2,946,921             |   |                                       |
| HPGas - MCF                       |       |           |                      |   | 3, 173      | 64,667                | . 020508                                | 1, 330                                |
| Lanchart-Sun<br>Oil - Bbls        |       |           | 67, 840              |   |             | 12, 022, 450          | • | 246, 560                              |
| HPGas - MCF                       |       | 1         | 13, 568, 250         | 477, 551  | 1, 343, 400 |                       |   | · · · · · · · · · · · · · · · · · · · |
|                                   | 160   |           | •                    | 3, 545  | 45, 741     | 38, 309               | . 809050                                | 30, 990                               |
| Oil - Bhis                        |       | 2         | 84,050<br>361,200    |   | 265, 423    | 95, 777               |   | 77, 490                               |
| LPGas - MCF                       |       |           |                      |   | 1,687,161   | 2, 243, 919           |   | 1,815,440                             |
| HPGas - MCF                       |       | 1         | 3, 931, 080          | 100,007   |             | and the second second |   | 1,066,700                             |
| Owen, Eva                         | 40    | 1         | 2, 848, 030          | 1, 399  | 950, 157    | 1, 897, 873           | . 572591                                | 1,000,000                             |
| SIPGas - MCF                      | 40    | 1         | 2,010,050            |   | -           |                       | . 337891                                | 41, 730                               |
| Owen, Eva "D" (Dev Unit)          | 40    | 1         | 160,000              | 420   | 36, 489     | 123, 511              | . 331875                                | 29,900                                |
| On - Bbis                         |       | •         | 120,000              |   | 31,510      | 88, 490               |   |                                       |
| LPGas - MCF                       | T 160 |           | 1.                   |   |             | 121,656               | . 375                                   | 45, 620                               |
| Sarkeys Nos. 1-C; 1-T & 2-        |       | 2         | 157, 500             |   | 35,844      | 1,967,649             |   | 737, 870                              |
| Oil - Bhls<br>LPGas - MCF         |       |           | 2, 343, 040          | 161,840   | 375, 391    | ** ********           |   |                                       |
| Watkins No. 1                     | 80    |           |                      | 13 665  | 32, 864     | 177,006               | . 617188                                | 109, 250                              |
| Oil - Bbls                        |       | 1         | 209, 870             |   | 767, 449    | 2, 166, 431           |   | 1, 337, 100                           |
| HPGas - MCF                       |       |           | 2, 933, <b>88</b> 0  | 8,419   |             |                       |   |                                       |
|                                   |       | 0         |                      |   |             |                       |   |                                       |
|                                   | -     | 2         | IRA BRINS            | EREOFF  |             |                       |   | د .                                   |

ዮ
# JAL OIL COMPANY

# Future Recoverable Hydrocarbons

October 1959

|  | Gross   | No.           | Wells      |   | 12 Months              | Cumulated                   | and a second | Net      |                         |
|--|---------|---------------|------------|---|------------------------|-----------------------------|--|----------|-------------------------|
| Wells                                      | Acres   | 011           |            | Ultimate                                | Production             | 10-1-59                     | Future   | Interest | Net Futt                |
| Lea County, New Mexico co                  | ont'd   |               |            |   |                        |                             |  |          |                         |
|  | 640     |               |            |   |                        |                             |  |          |                         |
| Wells<br>Oil - Bbls                        | 040     | 2             |            | 286, 500                                | 16, 415                | 61,277                      | 225, 223   | . 536250 | 120,                    |
| LPGas - MCF                                |         | •             |            | 2,249,000                               | 112,766                | 1, 111, 103                 | 1, 137, 897  |          | 610,                    |
| HPGas - MCF                                |         |               | 6          | 8, 216, 850                             | 772, 667               | 1, 141, 565                 | 7,075,285  |          | 3, 794,                 |
| Woolworth                                  | 160     |               | •          |   |                        |                             |  |          |                         |
| Oil - Bbls                                 |         |               |            | 79, 800                                 | 1,610                  | 5, 287                      | 74, 513  | . 526042 | 39,                     |
| HPGAS - MCF                                |         |               | 1          | 6,900,710                               | 86,858                 | 1, 422, 805                 | 5, 477, 905  |          | 2, 881,                 |
| Woolworth - 27                             | 240     |               |            |   |                        | •                           |  |          |                         |
| Oil - Bbls                                 |         | 1             |            | 7,780                                   | 246                    | 3, 272                      | 4, 508   | . 806409 | 3,                      |
| LPGas - MCF                                |         |               |            | 227,600                                 | 11,209                 | . 84,016                    | 143, 584   |          | 115,                    |
|  | ·       |               |            |   |                        |                             |  |          |                         |
| TOTAL New Mexico                           | 3,440   | 36            | 21         |   |                        |                             |  | -"<br>-  |                         |
| Oil - Bbls                                 |         |               |            | 3, 029, 460                             | 127, 722               | 1,062,576                   | 1,966,884  |          | 1,012,                  |
| LPGas - MCF                                |         |               |            | 16, 819, 000                            | 881,550                | 7, 474, 690                 | 9, 344, 310  |          | 5,602,                  |
| HPGas - MCF                                |         |               |            | 128, 571, 770                           | 4,239,409              | 25, 712, 619                | 102, 859, 151  |          | 34, 198,                |
| Cochran County, Texas                      |         |               |            |   |                        |                             |  |          |                         |
|  | 10 (10) |               |            |   |                        |                             |  |          |                         |
| Masten Nos. 1 & 2 Oil - Bbls               | 10,647  | 2             |            | 120, 300                                | 4, 444                 | 62,674                      | 57, 626  | . 75     | 43,                     |
| Masten No. 3                               |         | د             |            | 120, 300                                | -,                     | 02,014                      | 57,040   | . 15     | 43,                     |
| HPGas - MCF                                |         |               | 1          | 1, 949, 350                             | 14, 136                | 30, 481                     | 1,918,869  | . 722656 | 1 304                   |
| HPGES - MCF                                |         | <del></del> . | _1         | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                        |                             |  | . 122030 | 1, 386,                 |
| TOTAL Texas                                | 10,647  | 2             | 1          |   |                        |                             |  |          |                         |
| Oil - Bbls                                 | ,       | -             | -          | 120, 300                                | 4, 444                 | 62,674                      | 57, 626  |          | 43.                     |
| HPGas - MCF                                |         |               |            | 1,949,350                               | 14, 136                | 30, 481                     | 1, 918, 869  |          | 1, 386,                 |
| TOTAL Original Wells<br>New Mexico & Texas |         |               |            |   |                        |                             |  |          |                         |
| <u>011 m)</u>                              |         |               |            | 2 340 760                               | 132, 166               | 1 716 750                   | 2 024 510  |          |                         |
| Oil - Bbls                                 |         |               |            | 3, 149, 760                             |                        | 1,215,250                   | 2,024,510  |          | 1,055,                  |
| LPGas - MCF<br>HPGas - MCF                 |         |               |            | 16, 819, 000<br>130, 521, 120           | 881,550                | 7, 474, 690                 | 9,344,310  |          | 5, 602,                 |
| RPGIS - MCF                                |         |               |            | 130, 321, 120                           | 4, 253, 545            | 25, 743, 100                | 104, 778, 020  |          | 35, 585,                |
| New Wells - Since 11-1-57                  |         |               |            |   |                        |                             |  |          |                         |
| Lea County, New Mexico                     |         |               |            |   |                        |                             |  |          |                         |
| Christmas Nos. 6 – 9                       |         |               |            |   |                        |                             |  |          |                         |
| Oil - Bbls                                 |         | 4             |            | 412, 320                                | 18,518                 | 18, 518                     | 393, 802   | . 363327 | 143,                    |
| LPGas - MCF                                |         |               |            | 2, 704, 800                             | 121,647                | 121,647                     | 2, 583, 153  |          | 938,                    |
| Farnsworth Nos. 4 & 5                      |         |               |            |   |                        |                             |  |          |                         |
| Oil - Bbls                                 |         | 2             |            | 340,000                                 | 13,969                 | 22, 820                     | 317, 180   | . 339063 | 107, 9                  |
| LPGas - MCF                                |         |               |            | 1,214,580                               | 34, 184                | 66, 759                     | 1, 147, 821  |          | 389,                    |
| larner No. 2                               |         |               |            |   |                        |                             | <b>.</b>   |          |                         |
| Oil - Bbla                                 |         |               |            | 100,000                                 | 1,439                  | 1, 439                      | 98, 561  | . 807617 | 79,                     |
| HPGas - MCF                                |         |               | 1          | 2,000,000                               |                        |                             | 2, 000, <b>00</b> 0  |          | 1,615,                  |
| arkeys No. 2-C (bln)                       |         | 1             |            | 07 500                                  | 2 / 12                 | 1                           | 00 041   | 375000   |                         |
| Oil - Bbls<br>LPGas - MCF                  |         | 1             |            | 97, 500<br>780, 900                     | 3,612<br>53,949        | 6, 559<br>85 671            | 90, 941  | . 375000 | 34,                     |
| LPGAS - MCF<br>Estkins No 2                |         |               |            | 100, 900                                | JJ, 797                | 85, 571                     | 695, 329   |          | 260,                    |
| HPGas - MCF                                |         |               | 1          | 2, 900, 000                             | 28, 579                | 28, 579                     | 2, 871, 421  | . 617188 | 1, 772,                 |
| Cochran County, Texas                      |         |               |            |   |                        |                             |  |          |                         |
| dasten Nos. 5 - 12                         |         |               |            |   | 2.<br>1. 1.            |                             |  |          |                         |
| Oil - Bbls                                 |         | 7             |            | 969,000                                 | 26, 726                | 26, 726                     | 942, 274   | . 75     | 706,1                   |
| LPGas - MCF                                |         |               |            | 750,000                                 | 1, 531                 | 1, 53 1                     | 748, 469   |          | 561,3                   |
|  |         |               |            | •                                       |                        |                             | · · · · · · · · · · · · · · · · · · ·  |          |                         |
| OTAL New Wells                             |         | 14            | 2          |   |                        |                             |  |          |                         |
| Oil - Bbls                                 |         |               |            | 1, 918, 820                             | 64, 264                | 76,062                      | 1, 842, 758  |          | 1,071,0                 |
| LPGas - MCF<br>HPGas - MCF                 |         |               |            | 5, 450, 2 <b>80</b><br>4, 900, 000      | 211, 311<br>28, 579    | 275, 508<br>28, 579         | 5, 174, 772<br>4, 871, 421   | 5        | 2, 149, 8               |
| FRAND TOTAL                                |         |               |            | -, 700, 000                             | 69, 777                | 40, J17                     | 4, 911, <b>46</b> 1  |          | 3, 387, 4               |
|  |         |               |            | E 040 700                               | 106 412                |                             |  |          |                         |
| Oil - Bbls                                 |         |               |            | 5,068,580                               | 196,430                | 1,201,312                   | 3, 867, 268  |          | 2, 126, 3               |
| LPGas - MCF                                |         |               | - <i>7</i> | 22, 269, 280<br>135, 421, 120           | 1,092,861<br>4,282,124 | 7, 750, 198<br>25, 771, 679 | 14, 519, 082<br>109, 649, 441  |          | 7, 752, 6<br>38, 972, 9 |
| HPGAS - MCF                                |         |               |            |   |                        |                             |  |          |                         |

ISA BRINKEREOF

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 1779 Order No. R-1519

APPLICATION OF JAL OIL COMPANY FOR AN ORDER PERMITTING SEVEN OVERPRODUCED GAS WELLS IN THE JALMAT GAS POOL, LEA COUNTY, NEW MEXICO TO COMPENSATE FOR SUCH OVERPRODUCTION AT A LESSER RATE THAN COMPLETE SHUT-IN, AND FURTHER FOR MINIMUM ALLOWABLES FOR TWO OTHER JALMAT GAS WELLS, LEA COUNTY, NEW MEXICO, PURSUANT TO ORDERS NOS. R-520 AND R-967

## ORDER OF THE COMMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 7, 1959, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this <u>30th</u> day of <u>October</u>, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

# FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the original application in Case 1779 was for the consideration of seven wells, but that applicant requested at the hearing that one of the seven wells be dismissed from further consideration.

(3) That the following-described gas wells in the Jalmat Gas Pool, Lea County, New Mexico, are more than six times overproduced and are therefore subject to complete shut-in under the provisions of Orders Nos. R-520 and R-967: -2-Case No. 1779 Order No. R-1519

> TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM Legal Well No. 2, NE/4 SE/4 of Section 31 Dyer Well No. 3, SE/4 NE/4 of Section 31 Jenkins Well No. 1, SW/4 SW/4 of Section 29 Repollo Well No. 1, SW/4 NW/4 of Section 28

(4) That due to extreme liquid problems, the applicant seeks an order permitting the overproduction to be made up at a lesser rate than complete shut—in in order to preclude permanent injury to the subject wells.

(5) That the applicant should be permitted to produce each of the subject wells at a monthly rate equal to seventy-five percent of the well's current allowable or at a monthly rate equal to seventy-five percent of the well's average monthly allowable for the preceding six month proration period, whichever is greater.

(6) That the curtailed rate of production to compensate for overproduction as hereinabove prescribed should be adequate to prevent injury to the well or producing formation.

(7) That an administrative procedure should be established whereby the Secretary-Director of the Commission may authorize the operator to compensate for overproduction at a lesser rate than that provided in this order upon a satisfactory showing that the rate prescribed would result in permanent damage to the well and/or producing formation.

(8) That the Secretary-Director should be authorized to order that tests be made to determine whether the subwells may be produced at a lesser rate than that prescribed by this order without permanent injury to the well and/or producing formation and, if the test results so indicate, the Secretary-Director should be authorized to order the production rate curtailed below that herein prescribed.

(9) That any tests made to determine the minimum safe flow rate should be witnessed by a representative of the Commission.

(10) That the following-described gas wells in the Jalmat Gas Pool, Lea County, New Mexico are substantially in balance.

Owens Well No. 1, SW/4 SW/4 of Section 21 Township 25 South, Range 37 East, NMPM -3-Case No. 1779 Order No. R-1519

> Watkins Well No. 2, SE/4 NE/4 of Section 35, Township 24 South, Range 36 East, NMPM

(11) That due to severe liquid problems, the applicant seeks an order allotting minimum allowables to the abovedescribed two wells pursuant to Rule 8 of Order No. R-967 amending Order No. R-520, the applicable portion of which provides as follows:

> "The Commission may assign minimum allowables in order to prevent the premature abandonment of wells."

(12) That since the two wells for which minimum allowables were requested are substantially in balance, the applicant has failed to show the necessity of granting them allowables in excess of those now assigned to the subject wells.

## IT IS THEREFORE ORDERED:

(1) That the operator be and the same is hereby authorized to compensate for the overproduction of the followingdescribed gas wells in the Jalmat Gas Pool, Lea County, New Mexico, by producing each of them at a monthly rate equal to seventy-five percent of the well's current monthly allowable or at a monthly rate equal to seventy-five percent of the well's average monthly allowable for the preceding sixmonth proration period, whichever is greater:

> TOWNSHIP 25 SOUTH, RANGE 37 EAST, MMPM Legal Well No. 2, NE/4 SE/4 of Section 31 Dyer Well No. 3, SE/4 NE/4 of Section 31 Jenkins Well No. 1, SW/4 SW/4 of Section 29 Repollo Well No. 1, SW/4 NW/4 of Section 28

PROVIDED HOWEVER, That an administrative precedure be and the same is hereby established wherein the Secretary-Director is authorized to set the percentage of curtailment at a lesser rate than that herein prescribed upon a satisfactory showing by the operator that the rate for compensating for overproduction as set forth in this order would result in permanent damage to the well and/or producing formation.

PROVIDED FURTHER, That the Secretary-Director be and the same is hereby authorized to order that tests be made to determine whether the subject wells may be produced at a lesser rate than that prescribed by this order without permanent injury to the well and/or producing formation, and, if the test results so indicate, the Secretary-Director is hereby authorized to order the production rate curtailed below that rate herein prescribed. ⊶4⊶ Case No. 1779 Order No. R⊷1519

<u>PROVIDED FURTHER</u>, That any tests made to determine the minimum safe flow rate shall be witnessed by a representative of the Commission.

(2) That the minimum allowables sought by the applicant for the following-described wells be and the same are hereby denied:

> Owens Well No. 1, SW/4 SW/4 of Section 21 Township 25 South, Range 37 East, NMPM

Watkins Well No. 2, SE/4 NE/4 of Section 35, Township 24 South, Range 36 East, NMPM

(3) That the effective date of this order is November 1, 1959.

DONE at Santa Fe, New Mexico on the day and year hereinabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

SEAL

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|   | -166r (5-5 |  | 3t.  | W HYPEL<br>ale of Dev  | -xier        |  |                 | MILUTED            | CUPI  |  |
|---|------------|--|--|--|--------------|--|-----------------|--------------------|---|--|
| X   |            |  |  | ah Pressan<br>(Feliveral-  | );t//)       |  |                 | EXH                | IBIT NO   |  |
| Pool  | Jalmat     | Fa   | armation   | Tates         Special         Leane       0         Set at       2         Set at       2         Leane       2         Leane       2         Set at       2         Set at       2         Leane       2         Leane       3         Set at       2         Set at       2         Set at       2         Set at       2         Set at       3         Set at       3 <td></td> <td>Cou</td> <td>nty</td> <td>Lea</td> <td></td> <td></td> |              | Cou  | nty             | Lea                |   |  |
| Initial   |            | Annual   | X  | Special  |              | Det.   | e of tes        | t_3-6/3            | -13/59  |  |
| Uompany<br>Unit M   | VAL UIL U  | onpany<br>21 Tun   |  | $\frac{1}{27}$   | Wens         | C.P. D1  | Dana Na         | Wel                | 1 Ro  | _1                                     |
| Casing  | 5 . Wt.    | 15.5 1.0   |  | Set at 5   | 582          | Per  | fabo na         | LUFAL MA           | To To   | L                                      |
| Tubing  | 2 . vit.   | 6.5 I.I  |  | Set at 2   | 772          | l'er   | f2              | 769                | To27  | 72                                     |
| Gas Pay:<br>Producting  | r Thmus Ca | 69 To  | <b>2772</b>  | 2769   | `≿_G<br>∷⊘]] |  | -= Gl,          |                    | Bar. Pr   | 'ess <u>13</u>                         |
| Series  | ho Mete    | r Ruis Pa  | cker at  | Iype   | - 3ing       | $\frac{\text{Sing}}{1 \in -B}$   | radenhea        | d-G.G. o           | r G. U. E   | val                                    |
|   |            | haran hin sila akin ajarisi di bergerajar<br>Kristo ta sanata ka sa Sirangan | ميني<br>المحمدية الله عند مدامة الهارين عن المارين.<br>19 مكمانية في المارين المحمولية المحمولية المارين |  |              |  |                 |                    | ferentier open open en den geertet viegen<br>Geschier open ook, oper die Verschaussie |  |
|   | arteà      | Tak  | · · · · · · · · · ·  | FLOW PA  | IV           |  |                 |                    |   |  |
| Date  | time       |  | time   | Duration<br>Hours  | Taps         | Size   | Size            | Fress.             | ential  | Temp.                                  |
|   | 1          |  |  |  |              |  |                 |                    | 1   |  |
| 3-9-59  | 9:15 AH    | 3-10-59  | 215 Ali  | 24   | Flg.         | 4  | 1.000           | 108.2              | 57.76   | 66                                     |
| • •   | PM         |  | PM   |  |              |  |                 |                    | [   |  |
| <b></b>   | <b></b>    |  | ملي ي ي ي ي ي ي ي  | • •• ····  |              | 4 * * * * * * *  | 4 <u></u>       |                    |   |  |
| Static  | Thi crow   | Meter  |  | PLOW CALCUL  |              | and the second   |                 | Det.               | e of Flow   |  |
| Pressure  |            |  |  | Gravity<br>Factor  |              |  | ability         |                    | e of Fiow   |  |
| Pf  | hw         |  |  | r de cont  |              |  | F <sub>DV</sub> |                    | Q   |  |
| 108.2   | ro of      |  |  |  |              |  |                 |                    |   |  |
| 100.2   | 57.76      | 19.05  | 6.135  | •9520  | •99          | 43   |                 | 459                | 1   |  |
|   | · · · · ·  |  | <u>SHUT-IN</u><br>. Taken  | DATA   |              | -<br>  |                 |                    | LOW DATA  |  |
| and the second se | t-in       |  |  | Duration<br>Hours  | Well         | head P   | ressure         | W.H. WO            | rking Pre   | ssure                                  |
| Date  | Time       | Date   | 1.1me  | Hours  | Tubin        | $\frac{c}{nr} \cdot \frac{1}{n}$   | a<br>Cesing     | Tubing             | nd(Pt) ps   | ia<br>sing                             |
|   |            | 3-11-59  |  | 24   |              | and the support of the local division of the | 1.16 2          |                    | 1   |  |
| 3-10  | 9:15 AM    | 3-12-59  | 9:15 AM  | <u> </u>   | *            |  | 429.2           | 126.               | 2 2   | 90.2                                   |
|   | PM         |  | РМ   | 12   |              |  | 434.2           |                    |   |  |
|   |            |  |  |  | <u> </u>     |  |                 |                    | 0100  |  |
|   | fi         | (LCTION CA)  | LCULATIONS   | (if necess   | ary)         |  | 199 g.          |                    | SUITARY   |  |
| P 1   | Neasured   |  |  | -)   |              |  |                 | P_=                | 134.2   | psi                                    |
|   |            |  |  |  |              |  |                 | Ť                  |   | · · ·                                  |
| · · · · · · · · · · · · · · · · · · ·   |            |  |  |  |              |  | -               | \* =               | 459.1   | MCF/De                                 |
|   |            | DELIVERA   | ULITY CAL  | CULATIONS  |              |  | •               | P <sub>w</sub> =   | 290.2   | ) psi                                  |
| 000 0   |            | D I  |  | ם מ  |              |  |                 |                    |   | ·                                      |
| ,290.2  |            | P_c  |  | $P_W + P_c$  |              |  |                 | P <sub>d</sub> = 3 | 47 el   | psi                                    |
| P <sub>W</sub>  | 1          | P <sub>W</sub>   | 1 -  | $\frac{P_{W}}{P_{C}} \left( \frac{1}{P_{V}}, \frac{P_{W}}{P_{C}} \right)$  | _   = −M.    |  |                 | D =                | 329.6   | MCF/Da                                 |
| Pc  | 3317       | Pc 1.6   | <u>58</u>  | $P_c / P_c$  | - 1          |  | 3               |                    |   | ······································ |
| 6 + M   | •6506      | Log  | .61331-10  | <u>x</u> (   | (n)          | .771   |                 | _ <b>* _2</b>      | 85606-10  | •                                      |
|   | 501 D      | W  |  |  |              |  | Loc             | ;Q = ,             |   |  |
| tdress  | P.0.401    | Natural (  | New Yor  | 1  |              |  | . Dub           |                    | 2.66191   |  |
| ent and   | fitle (    | L.I U  | whith.   | Gas Test   |              |  | Log             | D =                | 2 51797   | LO                                     |
| tnessed   |            | 1  |  | 4  |              |  | Antilog         |                    |   |  |
| emany   |            |  | · · · · · · · · · · · · · · · · · · ·  |  |              |  | - HILTIO        |                    | 329.6   | *                                      |
|   |            | ,  | ~  | REMARKS  |              |  |                 |                    |   | -                                      |
| . —   | 2          | _  |  | on shut-i  |              |  |                 |                    |   |  |

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Form 15-166R (5-58)

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## EL PASO NATURAL GAS COMPANY State of New Mexico One-point Back Préssure Test for Gas Wells (Deliverability)

EXHIBIT NO.

 
 Jalmat
 Formation
 Yates
 County
 Lea

 Annual
 Special X
 Date of test
 5-16-58
 Pool Initial CompanyJal 011CompanyLeaseOwensWell No. 1UnitMSec. 21Twp. 25Rge. 37Purchaser El Paso Natural Gas CompanyCasing 5 1/2Wt. 15.5I.D4.976Set at 2582Perf. Open HoleToTubing 2 1/2Wt. 6.5I.D2.111Set at 2772Perf. 2769To 2772Gas Pay:From2605To2772L2769x G.670= GL 1855Bar.Press 13.2 Producing Thru: Casing \_\_\_\_\_ Tubing \_\_\_\_ Type Well Single Packer at \_\_\_\_\_ Single - Bradenhead-G.C. or G.O. Dual Series\_\_\_\_\_Meter Run FLOW DATA Taken Started Duration Type Line Orfice Static Differ-Flow Taps Size Size Press. ential Temp. Hours Date Time Date Time 5-12-58 8:25 AM 4-13-58 8:25 AM 1.250 113.2 25.00 70 Ŀ 24 flg. PM PM FLOW CALCULATIONS Static Differ-24-Hour Gravity | Temp. Meter Compress-Rate of Flow Factor Factor Pressure ential Extension Coeffability MCF/Da @ 15.025 psia Fg icient hw pf hw  $F_t$ Fpv <u>Q</u> pf 485 53.15 113.2 25.00 9.643 .9463 .9905 1,010 FLOW DATA SHUT-IN DATA Duration Wellhead Pressure W.H, Working Pressure Hours (Pc) psia (Pw) and (Pt ) psia Press. Taken Shut-in Date Date Time Time Tubing Tubing Casing Casing 413.2\* 5-14-58 24 8:25 AM AM 5-15-58 48 420.2\* 227.2 5-13-58 8-25 72 425.2\* 5-16-58 PM PM FRICTION CALCULATION (if necessary) SUMMARY Pw 51.6+(8.12)(.120)=52.6 Fc = 425.2\* psia Q = 485 MCF/Da. DELIVERABILITY CALCULATIONS P. = 229.4 psia P<sub>w</sub> + P<sub>c</sub> •5395 Pa = 340.2 L25.2 229.4 psia  $\mathtt{P}_{\bm{W}}$ 288 MCF/Da.  $\sim M_{\odot}$ P. 1,5395 .7089 Pc .4605 .771\*\*\* 9.7730891-10 9.7056927-10 2.6857417 11 6 Company El Paso Natural Gas Company Address P. O. Box 1384 - Jal, New Mexico 12.4558308-10 L. D. Southern - Gas Tester Davia H. Dyez El Paso Natural Gas Company 288 ..... 5 D SEMA: P.C \*\*Average Jalmat Slope

\*The shut-in used to calculate this test was taken from the nearest off set wel (Sun-Lanehart#1) as requested by the NMOCC.

# Form 15-166R (5-98) EL PASO NATUEAL GAS COMPANY EXHIBIT NO.-----State of New Mexico One-point Back Pressure Test for Gas Wells (Deliverability)

| Pool Jalmat  | F  | ormation   | Yates  |  | Co                 | ounty.                 | Lea   |   |   |
|--|--|--|--|--|--------------------|------------------------|---|---|---|
| Initial<br>Company Jai Oil<br>Unit H Sec.35  | Annual   | . X  | Special  |  | Da                 | te of tes              | st <b>4/1-</b>                                      | 8/60  |   |
| Company Jai 011  | Company  |  | Lease Wat  | tkins  |                    |                        | Wel   | ll No.  | 2   |
| Unit H Sec.35  | <u> </u>   | p. 24 1  | Rge. 36  | Purcha   | iser ;             | El Paso N              | atural O  | as Compar   | <b>y</b>  |
| casing 1/2 wt.   | ע•לד <u>ל</u> •לד  | • D •  | Set at2902   |  | Pe                 | rr.                    |   | То  |   |
| Tubing2 Wt.  | 4.1  |  | Set at2009   |  | Pe                 | rf.                    | 1 ^ 1 1   | To  |   |
| Cas Pay: From 29   | <u>42</u> 10   | 2954   | L 2009   | X G  | •000               | = GL                   | 1911  | Bar. P  | ress 13.2                                       |
| Producing Thru: C  | asing  | Tuoing   | g A Type   | e weil<br>Cima   | 510                | gie<br>Due de de de de | 100   |   |   |
| Series 40 Meter  | I Ruli I   | acker at   | · · · · · · · · · · · · · · · · · · ·  | STUR   | sie -              | bradennea              | α-0.0. ο  | or G.O. D   |   |
|  |  |  | FLOW   | DATA   |                    |                        |   |   |   |
| Started  | Ta   | ken  | Duration   | Type   | Line               | Orfice                 | Static  | Differ-   | Flow  |
| Date Time  | Date   | Time   | Hours  | Taps   | Size               | , Size                 | Press.  | ential  | Temp.   |
|  |  |  | :  |  |                    |                        | `   | -   |   |
| 4-4-60 8:45 AM   | 4-5-60   | 8:45 AM  | 24   | Flg.   | 4                  | 1.000                  | 119   | 19.36   | 80  |
| PM   |  | PM   |  |  | 4                  |                        | -   | •   |   |
|  |  | - <u> </u>   | FLOW CALCUL  | ATIONS   |                    |                        |   |   |   |
| Static Differ-   | Motor  |  | ur Gravity   |  |                    | Commons                | ; n   | oto of Pl   | ·   |
| Pressure ential  | Extension  | n <sup>1</sup> Coeff-  | Factor   | Facto  | r                  | shilty                 | MCE/Do  | a $a$ $b$ a |   |
|  | pf hw  |  | F <sub>g</sub>   | F+   |                    | F <sub>DV</sub>        |   | ۵ ۲ <b>۲۰۰</b> ۵۲   | , hera  |
|  | -1 w   |  | <u>.</u> R   |  |                    | - 10                   |   | . <b>*</b>  |   |
| 132.2 19.36  | 50.59  | 6.135  | •9491  | .9813  |                    | 1.011                  | 292.  | 3   |   |
|  |  |  | N DATA   | · · · · ·  |                    |                        |   |   |   |
|  | . Pro a a  |  |  | 12-13  |                    |                        |   | LOW DATA  | -   |
| Shut-in  |  | . Taken  |  |  |                    |                        |   | rking Pre   |   |
| Date Time  | Date   | Time   | Hours  | <u></u>  | <u>c) p</u><br>ing | Sia<br>Casing          | $(r_W)$   | and (Pt)<br>C   | psia  |
|  |  | :  | ļ.   | 140  | TUR                | casing_                | TUCTUR  | ······  | asing   |
|  |  | 1  |  |  |                    |                        |   |   |   |
| AM   |  | AM   |  |  | ator I             | dia sot                | Bad Va  | lve   | 100.2   |
| AM   |  | AM   |  | Opera  |                    | )id not<br>rell shut   |   | lve   | 400.2   |
| AM<br>PM   |  | Am<br>Pm   |  | Opera  |                    |                        |   | alve  | 400.2   |
| PM   |  | PM   |  | Opera<br>not i<br>in   |                    |                        |   |   |   |
| PM   |  | PM   |  | Opera<br>not i<br>in   |                    |                        |   | alve<br>Summar  |   |
| PM   |  | PM   |  | Opera<br>not i<br>in   |                    |                        |   | SUMMAR  | Y   |
| PM   |  | PM   |  | Opera<br>not i<br>in   |                    |                        |   |   | Y   |
| PM   |  | PM   |  | Opera<br>not i<br>in   |                    |                        | Fe =  | SUMMAR  | Y psia  |
| PM   |  | PM   |  | Opera<br>not i<br>in   |                    |                        | Fe =  | SUMMAR  | Y psia  |
| PM   | RICTION CA   | PM   |  | Operanot n<br>in<br>ary)   |                    |                        | F <sub>2</sub> =<br>Q =                             | SUMMAR  | Y psia<br>MCF/Da.                               |
| PM<br>FR   | DELIVER  | PM   | (if necess   | Operanot n<br>in<br>ary)   |                    |                        | F <sub>2</sub> =<br>Q =                             | SUMMAR  | Y psia<br>MCF/Da.                               |
| PM   | RICTION CA   | PM   | (if necess   | Operanot n<br>in<br>ary)   |                    |                        | $F_{2} =$<br>Q =<br>$P_{W} =$                       | SUMMAR  | Y<br>psia<br>psia                               |
| PM<br>FR   | DELIVER  | PM<br>ALCULATION<br>RABILITY C   | (if necess<br>ALCULATIONS<br>P <sub>w</sub> +  | Operanot and any)  |                    | ell shut               | $F_{c} =$<br>Q =<br>$P_{w} =$<br>$P_{d} =$          | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| PM<br>FR<br><br>W<br>P_y   | DELIVER  | PM<br>ALCULATION<br>RABILITY C   | (if necess<br>ALCULATIONS<br>P <sub>w</sub> +  | Operanot and any)  |                    | ell shut               | $F_{c} =$<br>Q =<br>$P_{w} =$<br>$P_{d} =$          | SUMMAR  | Y<br>psia<br>psia                               |
| PM<br>FR<br><br><br><br>   | EXECTION CAN<br>DELIVER<br>$P_c$<br>+ $\frac{P_w}{P_c}$                  | PM<br>ALCULATION<br>ABILITY C  | (if necess<br>ALCULATIONS<br>$P_w + \frac{P_w}{P_c} + \frac{P_w}{P_c}$   | Operanot not n<br>in<br>ery)<br>P <sub>c</sub>   | M.                 | rell shut              | $F_{2} =$ $Q =$ $P_{w} =$ $P_{d} =$ $D =$           | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| PM<br>FR<br><br>W<br>P_y   | EXECTION CAN<br>DELIVER<br>$P_c$<br>+ $\frac{P_w}{P_c}$                  | PM<br>ALCULATION<br>ABILITY C  | (if necess<br>ALCULATIONS<br>P <sub>w</sub> +  | Operanot not n<br>in<br>ery)<br>P <sub>c</sub>   | M.                 | rell shut              | $F_{2} =$ $Q =$ $P_{w} =$ $P_{d} =$ $D =$           | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| PM<br>FR<br><br>w<br>Pv<br>1<br>1<br>1<br>1<br>1<br>1<br>  | $\frac{\text{DELIVER}}{P_{c}}$ $+ \frac{P_{w}}{P_{c}}$ $Log$             | PM<br>ALCULATION<br>RABILITY CL  | (if necess<br>ALCULATIONS<br>$P_w + \frac{P_w}{P_c} + \frac{P_w}{P_c}$   | Operanot not n<br>in<br>ery)<br>P <sub>c</sub>   | M.                 | rell shut              | $F_{2} =$ $Q =$ $P_{w} =$ $P_{d} =$ $D =$           | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| PM<br>FR<br>Pw<br>Pc<br>36 + M<br>Sompany <b>El Paso Na</b>  | DELIVER<br>$P_c$<br>$+ \frac{P_w}{P_c}$<br>Log                           | PM<br>ALCULATION<br>RABILITY C<br>1.   | (if necess<br>ALCULATIONS<br>$P_w + \frac{P_w}{P_c} + \frac{P_w}{P_c}$   | Operanot and a serve of the ser | M.<br>•777         | ell shut               | $F_{2} =$ $Q =$ $P_{w} =$ $P_{d} =$ $D =$           | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| PM<br>FR<br>W<br>Pw<br>Pc<br>36 + M<br>Sompany<br>El Paso Ma<br>P. O. Box  | DELIVER<br>$P_c$<br>$+ \frac{P_w}{P_c}$<br>Log<br>tural Gas<br>1384 - Ja | PM<br>ALCULATION<br>ABILITY C<br>ABILITY C<br>Company<br>J. New Mon                    | (if necess<br>ALCULATIONS<br>$\frac{P_{w}}{P_{c}} + \frac{P_{w}}{P_{c}} + P_{$ | Operanot not nin<br>ary)<br>P <sub>c</sub>   | M.<br>•777         | rell shut              | $F_{c} = $ $Q = $ $P_{w} = $ $D^{2} = $ $D^{2} = $  | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| $P_{W}$ $P_{W}$ $P_{C}$ $36 + M$ $P_{C}$ $B_{C}$ $P_{C}$ $P_{$ | DELIVER<br>$P_c$<br>$+ \frac{P_w}{P_c}$<br>Log<br>tural Gas<br>1384 - Ja | PM<br>ALCULATION<br>ABILITY C<br>ABILITY C<br>Company<br>J. New Mon                    | (if necess<br>ALCULATIONS<br>$\frac{P_{w}}{P_{c}} + \frac{P_{w}}{P_{c}} + P_{$ | Operanot not nin<br>ary)<br>P <sub>c</sub>   | M.<br>•777         | rell shut              | $F_{c} =$ $Q =$ $P_{w} =$ $D =$                     | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |
| PM<br>FR<br>Pw<br>Pw<br>Pc<br>36 + M<br>pmpany <u>El Paso Na</u><br>idress <u>P. O. Box</u><br>gent and Title <u>As</u>  | DELIVER<br>$P_c$<br>$+ \frac{P_w}{P_c}$<br>Log<br>tural Gas<br>1384 - Ja | PM<br>ALCULATION<br>ABILITY C<br>ABILITY C<br>ABILITY C<br>A<br>Company<br>A<br>Second | (if necess<br>ALCULATIONS<br>$P_w +$<br>$\frac{P_w}{P_c} + \frac{P_w}{P_c}$<br>x (<br>cico<br>Gas Ter  | Operanot and a story)  | M.<br>•777         | ell shut               | $F_{c} =$ $Q =$ $P_{w} =$ $P_{d} =$ $D =$ $g = D =$ | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia<br>MCF/Da. |
| $P_{W}$ $P_{W}$ $P_{C}$ $36 + M$ $P_{C}$ $B_{C}$ $P_{C}$ $P_{$ | DELIVER<br>$P_c$<br>$+ \frac{P_w}{P_c}$<br>Log<br>tural Gas<br>1384 - Ja | PM<br>ALCULATION<br>ABILITY C<br>ABILITY C<br>ABILITY C<br>A<br>Company<br>A<br>Second | (if necess<br>ALCULATIONS<br>$\frac{P_{w}}{P_{c}} + \frac{P_{w}}{P_{c}} + P_{$ | Operanot and a ster  | M.<br>•777         | ell shut               | $F_{c} =$ $Q =$ $P_{w} =$ $P_{d} =$ $D =$ $g = D =$ | SUMMAR  | Y<br>psia<br>MCF/Da.<br>psia<br>psia            |

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FORM 15-166R (5-58)

# State of Monorations Confernal State of New Exima (2) One-point more for the Car Wells (Pelly-rability)

EXILIBIT NO.

PoolJalmetFormationYatesCountyLeaInitialAnnualJecialDate of test2-20/2-27-59CompanyJal Oll CompanyLeasHatkinsMell he.UnitHSec.35Twp.24hgs.UnitHSec.35Twp.24hgs.UnitHSec.35Twp.24hgs.UnitHSec.35Twp.24hgs.UnitHSec.35Twp.24hgs.Casing54uit.15.51.D.Set at2982Cusing2Wit.4.7E.D.Set at2982Tubing2Wit.4.7E.D.Set at2869Gas Pay:From2942To2954L2869x GProducing Thru:CasingTubingXType wellSingleSeriesA0Meter numPacker atSingle - Bredenhead-G.C. or U. U. Dual FLOW PATA Invation Type Line Orfice Taken Started Static biffer-Flow Date time Hours Taps Size Date time Size Press. ential Temp. 8:00 AH 2-24 8:00 AM 24 Flg. 1.000 2-23 ΖĦ. 305.2 51.84 67 PM PE FLOW CALCULATIONS Gravity Differ-24-Hour Compress-Static Meter Rate of Flow Teap. Pressure ential Extension Coeff-Factor Factor ability ECF/Da. @ 15.025 psia  $\mathbf{h}_{W}$ pf h<sub>W</sub> icient Ľ, Ft Fpv Q Pf 51.84 125.8 0,9470 305-2 6.135 0.9933 1.030 747.8 FLOW DATA SHU'E-TH DATA Press Duration Wellhead Pressure Taken W.H. Working Pressure Shut-in (<sup>r</sup>c) psia Date Hours (Pw)and(Pt) psia Time Date Time Tubing Casing Tubing Casing 24 48 72 843.2 844.2 MA 2-25 8 :00 AM 2-24 844.2 357.2 639.2 2-26 WNIL. 8442 4:35 PM 2-27 РИ FRICTION CALCULATIONS(if necessary) SUMMARY P= <u>844.2</u> psia Pr Managered Q = 747.8 MCF/Da. DELIVERABILITY CALCULATIONS Pu- 639.2 psia P<sub>W</sub> + P<sub>c</sub> 0.7572 P<sub>d</sub>= 675.4 . psia 639,2 Pc 844.2 1+ Pw 1- <sup>P</sup>w  $\left(1-\frac{\mathbf{P}_{\mathbf{W}}}{\mathbf{P}_{\mathbf{C}}}\right)\left(1+\frac{\mathbf{P}_{\mathbf{W}}}{\mathbf{P}_{\mathbf{C}}}\right) = 11.$ D = 650.8 MCF/Da. Pc 0.2428 Fc 1.7572 0.4266 .36 + H 0.8439 Log 9.026201 - 10 x (n) 0.819 = <u>9.939632 - 10</u> Company \_ EL BRED Matural GRE Company Log Q = 2.873786 P. O. Box 1384 - Jal. Her Mexico Address Agent and Title J. B. Zelmmay Ges Tester Log I = 12.813418 - 10 Antilog = 650.8 Company KI Pago Matamal Gas Coursan = D http://dis sure on this wall did not have any pressure on 72 hour shut-dn.

| $X^{\circ}$        |             | Gil                | e-point se                       | 36 HATHAL<br>at cof New<br>61 Trazent<br>(Daliman)      | e Test                      | for G     | as Mells             |                  | EXHIBL                 | T NO          |
|--------------------|-------------|--------------------|----------------------------------|---|-----------------------------|-----------|----------------------|------------------|------------------------|---------------|
| Pool Jal           | nat         | 12-                |                                  | (Pelivera)  | · · ·                       | 0         |                      | Ť                | · ·                    |               |
| initial j          | 2           | Annual             | aracton -                        | Special   |                             | The Det   | nty<br>coftes        | t Novent         | er 10-14               | 1958          |
| Company            | 1 011 C     | Sepany (Press      |                                  | Leane Wa  | tkins                       | · · · · · | 10 D                 | Wel.             | 1 No. 6                | 2             |
| asing 5            | 1/2 Wt. ]   | L.I.               | <u> </u>                         | Set at 2  | 982                         | Per       | <u>ы <b>гаво</b></u> | Natural (        | lo<br>lo               | 0 <b>y</b>    |
| ubing 2            | vit.        | L.M. I.I           | 2051                             | Set at  | 2869                        | Fer A     | f.                   | 1901.            | To<br>Bar Pr           | 2689 13.2     |
| roducing           | Thru: Ca    | sing               | Tubing                           | YatesSpecialLeasegs.36Set at2Set at1.2869X              | <b></b><br>3                | Sin       |                      |                  |                        |               |
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EXHIBIT NO.-----

OIL CO., INC OIL INIT H, 8-22-58 95-24-36; LEA CO., N.M. W. D. GIRAND LOWELL STOUT ROBERT F. PYATT

GIRAND & STOUT LAWYERS 204 LEA COUNTY STATE BANK BUILDING HOBBS, NEW MEXICO

March 29, 1960

TELERIA EXPRESS 3-9116 POST OFFICE BOX 1445

State of New Mexico 011 Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attention: Mr. A. L. Porter

Gentlemen:

I am enclosing herewith application of Jal Oil Company in quadruplicate. I would appreciate this application being set for as early hearing as possible.

You will note in the application that we have requested that the subject wells be excused from regulatory action due to over-production or requirement of the taking of deliverability tests pending hearing on the application.

This is the application which I discussed briefly with you by phone today, and would appreciate any action taken to expedite and alleviate the situation.

Respectfully submitted.

GIRAND & STOUT

BY:

G/mc Enclosures

cc: Jal Oil Company, Box 1744, Midland, Texas, attn. Howard Olsen

R. Olsen, Liberty Bank Bldg., Oklahoma City 2, Oklahoma

AIR MAIL

# BEFORE THE OIL CONSERVATION COMMISSION

## STATE OF NEW MEXICO

APPLICATION OF JAL OIL COMPANY FOR AN EXCEPTION TO RULE 10 OF ORDERS NO. R520 AND R967, AND FOR EXEMPTION FROM THE REQUIREMENTS OF RULE 6(c), ORDERS NO. R967 AND R1092A INSOFAR AS SAID ORDERS EFFECT THE JAL OIL COMPANY'S GAS WELLS DESIGNATED AS LEGAL #2, LOCATED IN THE NE/4 SE/4 OF SECTION 31; DYER #3 LOCATED IN THE SE/4 NE/4 OF SECTION 31; JENKINS #1 LOCATED IN THE SW/4 SW/4 OF SECTION 29; AND THE EVA OWENS #1 LOCATED IN THE SW/4 SW/4 OF SECTION 21, ALL IN TOWNSHIP 25 SOUTH, RANGE 37 EAST; AND THE WATKINS #2 LOCATED IN THE SE/4 NE/4 OF SECTION 35, TOWNSHIP 24 SOUTH, RANGE 36 EAST; ALL IN THE JALMAT GAS POOL, LEA COUNTY, NEW MEXICO, AND FOR RELIEF FROM ANY ORDER ) OR ACTION ON THE PART OF THE COMMISSION SHUTTING IN SAID WELLS.

CASE NO. 1941

a station and an

COMES NOW the Jal Oil Company, a New Mexico corporation, with principal office in Jal, Lea County, New Mexico, and files this, its application for an exception to Rule 10 of Orders No. R520 and R967; exemption from Rule 6, sub-paragraph "c" of Orders R967 and R1092A, and for permanent relief from threatened shut in to any of the above designated gas wells, and for cause would show: That all of said wells are producing water in such quantities that in order to produce any gas the wells must be produced by mechanical means. That all of said wells are being mechanically produced, i.e., either by pumping or through the operation of a mechanical lift known as a free floating piston.

# 2.

That all of the above wells have been the subject matter of prior hearings before this Commission in the consolidated Case No. 1779.

3.

Applicant would show that in the use of the methods of production employed by Applicant, Applicant's well denominated as Dyer #3 has exceeded the allowable permitted by the Commission in Order No. R1519 wherein the Commission authorized it to make up its over-production at the rate of 75% of the well's current allowable. The control on the production of this gas, when considering the methods employed to produce the same, cannot be regulated to an extent required by the Commission without permanently damaging the productivity of this lease.

-2- "

1.

That in connection with the operation of the Legal #2 Applicant has found that the present production method employed to produce this well will not allow Applicant to stay within the limits of the production authorized by the Commission in its Order No. R1519.

5.

In this connection, Applicant has maintained close production records on the subject wells from the date of the Commission's Order No. R1519, and believe that the facts surrounding the production of all of said wells will warrant the Commission in making an exception to Orders R520 and R967 covering or controlling the allowable of the subject wells.

# 6.

Applicant would further show the Commission that due to the characteristics of the subject wells in that all of said wells are making appreciable amounts of water and will not produce gas unless the encroaching water is continually removed from the well bore, the water will plug the well bore and destroy the wells' ability to produce gas. In this connection, Applicant would show that a continued shut in of a

4.

well producing such as the wells covered by this application will result in a complete loss of the gas reserve and well. This was established by the fact that the Commission shut in Applicant's well known as "Repollo #1" and after Applicant was authorized to reproduce that well and attempted to bring the well back through pumping process over a period of several months, the well never was and isn't today capable of producing gas.

7.

Applicant would further show that the requirement of Order No. R967 and Order No. R1092A requiring a deliverability test to be taken annually should be suspended insofar as the subject wells are concerned for the reason that such a test made on these wells would result in the wells being unable to produce any gas, and would thereby discriminate against said wells, since 75% of the wells' allowable are determined on the wells' deliverability. The true capability of a well producing water and being produced through the means employed by Applicant could only be arrived at by taking a test on the total volume of gas produceable employing the artificial means.

-4-

Applicant would further show the Commission that it is charged by law with the obligation to protect the correlative rights of all producers, and is granted great latitude in assigning minimum allowables to prevent the premature abandonment of wells.

WHEREFORE, Applicant prays that this application be set down for hearing, and that upon the hearing the Commission grant unto Applicant:

1. That the subject wells be excused from any regulatory action due to over-production or requirement of the taking of deliverability tests until hearing is had on this application.

2. That the subject wells be exempted from the force and effect of Rule 10 of Order R520 and R967.

3. That the subject wells be excepted from the requirements of taking a deliverability test as required by Order R967 and R1092A.

4. That the deliverability tests required of a well producing under artificial means such as the subject wells, be allowed to establish their deliverability by a showing of the

-5-

8.

total volume of gas produceable through the means employed and that this factor be used in place of the shut in procedure.

5. That the Commission set special allowables for gas wells producing under artificial means that will be fair, equitable, and just to all operators producing gas in such a manner.

6. That the Commission enter its order prohibiting the shut in of any of the subject wells without notice to Applicant and hearing thereon.

7. That the excess allowable attributable to the subject wells be excused, and that the Commission formulate a realistic allowable for the subject wells;

And for such other appropriate order as the Commission deems proper in order to prevent waste of the natural reserves and to protect the correlative rights of the Applicant.

G/mc

GIRAND & STOUT BY ATTORNEYS FOR APPLICANT)

HOBBS, NEW MEXICO

in the succession

No. 11-60

SUPPLEMENTAL DOCKET: REGULAR HEARING APRIL 13, 1960 Oil Conservation Commission 9 a.m., HOBBS AUDITORIUM, 1300 EAST SCHARBAUER, HOBBS, NEW MEXICO

CASE 1941:

Application of Jal Oil Company for exceptions to various provisions of Orders R-520, R=967, and R-1092-A for 5 wells in the Jalmat Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order cancelling the overproduction incurred by the following-described wells

Legal Well No. 2, NE/4 SE/4, Section 31 Dyer Well No. 3, SE/4 NE/4, Section 31 Jenkins Well No. 1, SW/4 SW/4, Section 29 Owens Well No. 1, SW/4 SW/4, Section 21 all in Township 25 South, Range 37 East, and the

Watkins Well No. 2, SE/4 NE/4, Section 35, Township 24 South, Range 36 East.

Applicant further seeks an exception to the deliverability test requirements of said Orders for each of the abovedescribed wells and also seeks an exemption from prorationing as required by the Special Rules and Regulations for

## No. 11-60

# DOCKET: REGULAR HEARING APRIL 15, 1960

# OIL CONSERVATION COMMISSION - 9 a.m. - HOBBS AUDITORIUM, 1300 EAST SCHARBAUER HOBBS, NEW MEXICO

ALLOWABLE:

- (1) Consideration of the oil allowable for May, 1960
- (2) Consideration of the allowable production of gas for May, 1960 from six prorated pools in Lea County, New Mexico; also consideration of the allowable production of gas from seven provated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico for May, 1960.
- CASE 1934: In the matter concerning purchaser prorationing by Indiana Oil Purchasing Company in all oil pools from which it purchases in New Mexico.
- CASE 1935: In the matter concerning purchaser prorationing by Sinclair Crude Oil Company in all oil pools from which it purchases in New Mexico.
- CASE 1936: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider changing the date of the Regular Commission Hearing in June, 1960, from the 15th to the 10th.
- CASE 1937: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider consolidating the rules governing the six prorated gas pools in Southeast New Mexico into one order, and to consider consolidating he rules governing the seven prorated gas pools in Northwest New Mexico into one order.

CASE 1938: Southeastern New Mexico nomenclature case calling for an order creating new pools and extending existing pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

(a) Create a new pool classified as an oil pool for San Andres production, designated as the Button Mesa-San Andres Pool, and described as:

> TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM SECTION 20: NE/4

Docket No. 11-60

-2-

(b) Create a new pool classified as an oil pool for San Andres production, designated as the Echol-San Andres Pool, and described as:

> TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM SECTION 8: NW/4

(c) Create a new pool classified as an oil pool for Wolfcamp production, designated as the Echol-Wolfcamp Pool, and described as:

TOWNSHIP 11 SOUTH, RANGE 38 EAST, NMPM SECTION 16: NW/4

(d) Create a new pool classified as an oil pool for Devonian production, designated as the Reeves-Devonian Pool, and described as:

> TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM SECTION 24: :NW/4

(e) Extend the Bluitt-Pennsylvanian Pool to include:

TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM SECTION 24: NE/4

(f) Extend the Caprock-Queen Pool to include:

TOWNSHIP 13 SOUTH, RANGE 31 EAST, NMPM SECTION 3: SE/4

(g) Extend the West Crossroads-San Andres Pool to include:

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM SECTION 20: E/2

(h) Extend the East Dayton (Grayburg) Pool to include:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM SECTION 28: NW/4 SECTION 29: NE/4

(i) Extend the Empire-Abo Pool to include:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM SECTION 33: SW/4

Docket No. 11-60

-3-

(j) Extend the North Hackberry-Yates Pool to include:

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM SECTION 20: SE/4 SECTION 29: N/2 NE/4 and NE/4 NW/4

(k) Extend the East Hightower-Devonian Gas Pool to include:

TOWNSHIP 12 SOUTH, RANGE 34 EAST, NMPM SECTION 30: E/2 NE/4

(1) Extend the Hume-Queen Pool to include:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM SECTION 7: NE/4

(m) Extend the Jalmat Gas Pool to include:

TOWNSHIP 22 SOUTH, RANGE 55 EAST, NMPM SECTION 3: N/2

(n) Extend the Leamex-Pennsylvanian Pool to include:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM SECTION 23: NE/4

(o) Extend the Pearl-Queen Pool to include:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM SECTION 34: SE/4

(p) Extend the Ranger Lake-Pennsylvanian Pool to include:

TOWNSHIP 12 SOUTH, RANGE 34 EAST, NMPM SECTION 22: SE/4

(q) Extend the East Red Lake-Queen Pool to include:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM SECTION 2: W/2 NE/4

(r) Extend the Sawyer-San Andres Gas Pool to include:

TOWNSHIP 10 SOUTH, RANGE 38 EAST, NMPM SECTION 4: NW/4

-4-Docket No. 11-60

(s) Extend the Sugart-Pennsylvanian Gas Pool to include:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM S/2 SECTION 26: SE/4SECTION 27:

(t) Extend the Tubb Gas Pool to include:

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM SECTION 28: SW/4

(u) Extend the Turkey Track Pool to include: TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM SECTION 28: N/2 and SE/4

CASE 1939:

Northwestern New Mexico nomenclature case calling for an order creating new pools and extending existing pools in San Juan and Rio Arriba Counties, New Mexico. (a) Create a new pool classified as an oil pool, designated as the Chiquito-Gallup Qil Pool and described as:

TOWNSHIP 26 NORTH, RANGE 1 EAST, NMPM, NE/4SECTION 5:

(b) Extend the Pine Lake-Pictured Cliffs Pool to include:

TOWNSHIP 26 NORTH, RANGE 2 WEST, NMPM SECTION 30: All (partial)

(c) Extend the Tapacito-Pictured Cliffs Pool to include:

TOWNSHIP 27 NORTH, RANGE 5 WEST, NMPM SECTION 12: SW/4 SECTION 13: NW/4

(d) Extend the West Kutz-Pictured Cliffs Pool to include: TOWNSHIP 27 NORTH, RANGE 12 WEST, NMPM

SECTION 9: SE/4

(e)

Extend the Blanco-Mesaverde Pool to include:

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM SECTION 26: W/2

-5-Docket No. 11-60

(f) Extend the Angels Peak-Gallup Oil Pool to include:

TOWNSHIP 27 NORTH, RANGE 10 WEST, NMPM SECTION 19: SE/4 SECTION 29: NW/4 SECTION 30: NE/4

(g) Extend the Horseshoe-Gallup Oil Pool to include:

TOWNSHIP 30 NORTH, RANGE 16 WEST, NMPM SECTION 10: S/2 SW/4

TOWNSHIP 31 NORTH, RANGE 16 WEST, NMPM SECTION 27: SE/4 NW/4, NE/4 SW/4, & SE/4

(h) Extend the Verde-Gallup Oil Pool to include:

TOWNSHIP 31 NORTH, RANGE 14 WEST, NMPM SECTION 30: S/2 SE/4 SECTION 31: NE/4 NE/4

(i) Extend the Angels Peak-Dakota Pool to include:

TOWNSHIP 26 NORTH, RANGE 9 WEST, NMPM SECTION 6: N/2 SECTION 7: W/2

TOWNSHIP 26 NORTH, RANGE 10 WEST, NMPM SECTION 1: All

TOWNSHIP 27 NORTH, RANGE 10 WEST, NMPM SECTION 19: E/2 SECTION 20: A11

(j) Extend the South Blanco-Dakota Pool to include:

TOWNSHIP 27 NORTH, RANGE 6 WEST, NMPM SECTION 19: W/2 SECTION 27: S/2

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM SECTION 24: 5/2

(k) Extend the West Kutz-Dakota Pool to include:

Docket No. 11-60

-6-

TOWNSHIP 28 NORTH, RANGE 13 WEST, NMPM SECTION 9: All (partial) SECTION 10: All (partial) SECTION 15: All SECTION 16: N/2

| TOWNSHII<br>SECTION | 29  | NORTH | RANCE | • • | •     |      |
|---------------------|-----|-------|-------|-----|-------|------|
| SECTION             | 27: | A11   | TANGE | 13  | WEST, | NMPM |
| SECTION             | 28. | Διι   |       |     |       |      |
| SECTION             | 33: | A11   |       |     |       |      |
| SECTION             | 34: | W/2   |       |     |       |      |

CASE 1893:

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(De Novo)

Application of Petro-Atlas, Inc. for a hearing de novo before the Oil Conservation Commission in Case No. 1893, Order No. R-1619, which was an application to cancel the overproduction charged against one gas well in the South Blanco-Pictured Cliffs Pool, San Juan County, New Mexico. Said Order No. R-1619 denied the requested relief.

# OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

April 27, 1980

Mr. W. D. Girand Girand & Stout Box 1445 Hobbs, New Mexico

Dear Sir:

On behalf of your client, Jal Oil Company, we enclose two copies of Order R-1655 in Case 1941 issued by this Commission on April 25, 1960.

Yery truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Enclosures: (2)

EXHIBIT NO.

BEFORE THE

NOLSER

# SOUTHEAST GAS PRORATION SCHEDULE

# DIL CONSERVATION COMMISSION



ORDER NO. AG-13-4 APRIL 1960

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

## ORDER NO. AG-13-4

## SUPPLEMENTARY GAS PRORATION ORDER FOR THE MONTH OF APRIL, 1960

The Commission held public hearing at Santa Fe, New Mexico, on March 16, 1960, at 9 o'clock a.m., pursuant to legal notice, for the purpose of setting the allowable production of gas from the following six gas pools in Lea County, New Mexico, for the month of April, 1960.

Blinebry, Crosby-Devonian, Eumont, Jalmat, Justis, and Tubb

NOW, on this day the Commission, a quorum being present, having considered the supplementary nominations of purchasers, the capacity of producing wells, and being otherwise fully advised in the premises,

FINDS:

(1) That total nominations of purchasers of gas from the above-listed six gas pools for the month of April, 1960, is 16,470,750 MCF. The individual pool nominations, which total 16,470,750 MCF, are as follows:

| Blinebrý        | 2,282,430 | MCF |
|-----------------|-----------|-----|
| Crosby-Devonian | 930,660   | MCF |
| Eumont          | 5,380,920 | MCF |
| Jalmat          | 5,613,940 | MCF |
| Justis          | 283,330   | MCF |
| Tubb            | 1,979,470 | MCF |

(2) The potential producing capacity of all gas wells in the six gas pools listed above is in excess of the nominations of purchasers of gas, and in order to prevent waste and protect correlative rights, the production of gas from the above-listed six gas pools should be limited, allocated, and distributed during the month of April, 1960.

(3) That all producing gas wells, together with the expected completed or recompleted wells in the six gas pools listed above, can produce a total of 16,470,750 MCF without causing waste during the month of April, 1960, and an allocation based upon such production would be reasonable and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That for the month of April, 1960, the allowable production to be assigned the six allocated gas pools in

ORDER NO. AG-13-4 -2-

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Lea County, New Mexico, be and the same hereby is as follows:

| T' 319, 470 MCF |                 |
|-----------------|-----------------|
| 583' 330 WCE    | qqnL            |
| 2' 973' 840 WCE | aiteut          |
|                 | Jamiet          |
| 5,380,920 MCF   | Juoung          |
| 930, 660 MCF    | Crospy-Devonian |
| 2,282,430 MCF   |                 |
|                 | Blinebry        |

R-586-B, R-610, and R-639-A, and the Commission's Rules and be in accordance with the provisions of Orders R-520, R-586, 1960, in the six allocated pools in Lea County, New Mexico, shall (2) That the allocation hereby set for the month of April, (2)

Listed above for the period stated, in accordance with the Rules and Regulations and Orders R-520, R-586, R-586-B, R-610, and solug and the allowable production among the gas wells in the six gas pools attached and made a part hereof; it distributes and allocates (3) A proration schedule, duly prepared by the Commission and thereafter adopted for the month of April, 1960, is hereto

order of the Commission. The foregoing order shall remain effective until further

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A. L. PORTER, Jr., Momber & Secretary

NURRAY E, MORGAN, Momber

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STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

DONE at Santa Fe, New Mexico, on this 18th day of March,

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SEAL

-2-ORDER NO. AG-13-4

Lea County, New Mexico, be and the same hereby is as follows:

| Blinebry        | 2 202 622     |
|-----------------|---------------|
| Crosby-Devonian | 2,282,430 MCF |
| Eumont          | 930,660 MCF   |
| Jalmat          | 5,380,920 MCF |
| Justis          | 5,613,940 MCF |
| Tubb            | 233,330 MCF   |
| -               | 1,979,470 MCF |

(2) That the allocation hereby set for the month of April, 1960, in the six allocated pools in Lea County, New Mexico, shall be in accordance with the provisions of Orders R-520, R-586, R-586-B, R-610, and R-639-A, and the Commission's Rules and

(3) A proration schedule, duly prepared by the Commission and thereafter adopted for the month of April, 1960, is hereto attached and made a part hereof; it distributes and allocates the allowable production among the gas wells in the six gas pools listed above for the period stated, in accordance with the Rules and Regulations and Orders R-520, R-586, R-586-B, R-610, and

The foregoing order shall remain effective until further order of the Commission.

DONE at Santa Fe, New Mexico, on this 18th day of March, 1960.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

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A Area in

#### Eumont Pool Blinebry Pool Crosby Devonian Pool 5,380,920 April Nominations 2,282,430 930,660 Feb. Net Allow. 2,518,151 1,053,955 7,259,095 $\frac{2,095,030}{2,309,330}$ Feb. Production 859,866 - 3,812,223 423,121 - 194,089 3,446,872 March Nominations 915,110 5,255,390 + 2,387,417 March Current Allow. 2,466,389 157,059 185,875 2,867,973 729,235 3,956,114 Total April Pool Alloc. 1,702,250 922,446 -0--0-Less: April Low Acreage N-M -0~ 15,720 <u>10,720</u> 1,686,030 Less: April Marg. Allocation -0--0-33,612 33,612 3,922,502 922,446 Total April N-M Pool Alloc. N-Marg. Acreage Alloc. Factor 12925-58 70957.38 7990.27 N-Marg. A x D Alloc. Factor Actual Pool Allocation 1,702,298 3,956,014 922,441 5,184 - 23,359 April Supple. to Feb. Net Allow. -0-April Supple. to March Current Allow. + -0~ -0-3,710 Participating N-Marg. Acre Factors 130.48 13.00 490.91 Total Number of Wells 147 390 13 Justie Pool Tubb Pool Jalmat Pool April Nominations 1,979,470 283,330 5,613,940 Feb. Net Allow. 392,171 2,703,686 2,725,137 - 191,225 6,360,562 975,723 Feb. Production 200,946 -1,727,963 + 3,635,425 March Nominations 299,200 1,961,850 5,862,470 178,528 1,079,746 March Current Allow. 120,672 882,104 8,569,906 + - 2,707,436 270,633 6,541,929 Total April Pool Alloc. 1,133,611 -0-Less: April Low Acreage N-M -0--0-75,945 8,836 Less: April Marg. Alloc. 8,836 20,683 20,683 75,945 Total April N-M Pool Alloc. 261,797 1,112,928 6,465,984 N-Marg. Acreage Alloc. Factor 15399.82 8887.07 4063.18 N-Marg. A x D Alloc. Factor 5.768057 Actual Pool Allocation 270,636 1,133,610 6,541,926 April Supple. to Feb. Net Allow. -0-17,966 50,484 April Supple. to March Current Allow. -0--0-31,039 Participating N-Marg. Acre Factors 17.00 125.23 397.84 Total Number of Wells 11 143 385

-1.1.1. APRIL 1960 SOUTHEAST GAS PRORATION POOL BALANCING SCHEDULE

ALL FIGURES ARE IN MCF GAS

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# SOUTHEAST GAS PRORATION SCHEDULE

## EXPLANATION OF CURRENT STATUS CODE COLUMN

## NON-MARGINAL

Signifies a non-marginal well with allocation based upon the %ppropriate formula.

#### MARGINAL

Signifies a marginal well with a constant allowable granted on the basis of the highest producing month during the preceding six months period.

## NEW CONNECTION

Signifies newly connected non-marginal wells.

# SIX TIMES OVER-PRODUCED FLAG

This flag in the over/under produced field of the schedule signifies those wells which have over produced six or more times the latest current allowable shown in the schedule.

## EXEMPT FROM TOTAL SHUT-IN

Identifies a well which, after notice and hearing, has been granted an exception to the overproduction shut-in provisions. Notwithstanding the current allowable shown in this proration schedule, these wells shall not produce more gas each month than provided for in the order covering the well so identified. Violation of these orders will not be tolerated.

NOTE:

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Some of the wells listed on this schedule may have been shut-in by the Commission. In all such cases both the operator and transporter are individually notified by supplements which take precedence over this schedule. In no event shall a shut-in well be produced until released by the Commission.

|        |                                       | ST GAS<br>ACTORS.      | ACREA      |  | ORS BY PIPELI |          | TION     | NOMINATIONS.                            | N-MARG. |
|--------|---------------------------------------|------------------------|------------|--|---------------|----------|----------|---|---------|
| 1      | -MARGINAL                             | TOTAL                  | N-MARGINAL | TOTAL  |               | MARGINAL | TOTAL    | TOTAL                                   | WELLS   |
| BIC    | INERA<br>ONTINE<br>1.00               | Y POOL<br>NTAL<br>1.00 | 160        | 160  |               |          | 12926    | 20000                                   | 1       |
| EI     | 61.74                                 | 61.74                  | 9879       | 9879   |               |          | 798049   | 1571430                                 | 57      |
| M      | ວອີໄ <u>້</u><br>75                   | . 7 5                  | 120        | 120  |               |          | 9694     | 27000                                   | { 1     |
| PE     | ERMIAN<br>65.24                       | )                      | 10439      | 10759  |               | 0563     | -        | 621000                                  | { }     |
| SI     | HELL                                  | 01.24                  | 10439      | 10739  |               | 0000     | 691092   | 15000                                   |         |
|        | KELLY                                 | 1.00                   |            | 160  | A             | 3147     | 3147     | 1 5 0 0 0                               |         |
| IS (   | 1,75                                  | 1.75                   | 280        | 280  |               |          | 22620    | 28000                                   | 2       |
|        |                                       | PET<br>1.00            |            | 160  |               | 4010     | 4010     |   |         |
|        | DTAL<br>130.48                        | 134.48                 | 20878      | 21518  |               | 15720    | 1702298  | 2282430                                 | 143     |
| CF     | ROSBY                                 | DEVONIA                | N POOL     |  |               | 8        |          |   | •       |
|        | 13.00                                 | 13.00                  | 2080       | 2080   |               |          | 922441   | 930660                                  | 13      |
|        | 13,00                                 | 13.00                  | 2080       | 2080   |               |          | 922441   | 930660                                  | 13      |
|        |                                       |                        |            | · · ·  |               |          |          |   |         |
|        | DNTINE                                |                        |            | 2000 - 1990<br>1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - |               |          |          | 25000                                   |         |
| EL     | PAS0<br>312.37                        | 217.31                 | 33929      | 34729  |               | 9471     | 1705803  | 2650000                                 | 165     |
| 1.1.1  | · · · · · · · · · · · · · · · · · · · |                        |            |  |               |          |          | 4000                                    |         |
|        | RMIAN<br>54.38<br>11LLIP              | 257.16                 | 40704      | 41149  |               | 16633    | 2049182  | 2481000                                 | 189     |
|        | 5 75                                  | 6.25                   | 920        | 1000   |               | 7508     | 53451    | 74000                                   | 6       |
| 1      | ELLY<br>50                            | . 5 0                  | 80         | 80   |               |          | 3995     |   | 1       |
| SC     | UNIO<br>1597<br>RREN                  | 15.97                  | 2553       | 2553   |               |          | 127603   | 142500                                  | 20      |
| WA     | DEWAT                                 | PET 2.00               | 320        | 320  | •             |          | 15980    |   | 2       |
| . I. " |                                       |                        |            |  |               |          |          | 4420                                    |         |
|        | TAL<br>190,91                         | 499,19                 | 78506      | 79831  |               | 33612    | 39560.85 | 5380920                                 | 383     |
|        | ISTIS                                 | POOL                   | •          |  |               | ¢.       | •        |   | 1       |
| EL     |                                       | 18.00                  | 2720       | 2880   |               | 8836     | 270636   | 283330                                  | 10      |
| TC     | 17.00<br>TAL<br>17.00                 | 18.00                  | 2720       | 2880   |               | 8836     | 270636   | 283330                                  | 10      |
|        |                                       |                        |            |  |               |          |          | ~ |         |
|        |                                       |                        |            |  |               |          |          |   |         |

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| 50       | UTHEAST  | PR     | DRA               | TED        | GA       | <u>s</u> p  |       |       |            |            |           |       |                  |            |            |          |       | YEAD      | 1:1      | 96         | 50       | PAG  | <u>E</u> : |         | ر<br>جــــــ | L          |                   |
|----------|--|--------|-------------------|------------|----------|---|-------|-------|------------|------------|-----------|-------|------------------|------------|------------|----------|-------|-----------|----------|------------|----------|------|------------|---------|--------------|------------|-------------------|
| ·        | DESCRIPTION  | STATUS | ACREAGE<br>FACTOR |            |          |   | FEB   |       |            |            |           |       |                  | . <u> </u> |            |          |       | AR.       |          |            |          | _1   | PF         | -       |              |            | CREAGE OR         |
| ÷        |  |        |                   | BEGINNING  | NET ALLO | WABLE T   | NCF   | PRODU | CTION      |            | OVER/UNDE | R PRO | DUCTION 1        |            | CURRENT AL | LOWAI    |       | ENDING    | IET AL   | LOWAR      | LE       |      |            | <u></u> |              | -}         |                   |
|          |  |        |                   |            |          |   |       |       |            |            |           |       |                  |            |            |          |       |           |          |            |          |      |            |         |              |            |                   |
| BL       | INEBRY P   | 00     | -                 |            |          |   |       |       |            |            | {         |       |                  | }          |            |          | <     |           |          |            |          |      |            |         |              |            |                   |
|          |  |        | -                 |            |          |   |       |       |            |            |           |       |                  |            |            |          |       |           |          |            |          |      |            |         |              |            |                   |
| ĊÒ       | NTINENTA   |        | 516               | COM        | 1 Þ Á    | NY  | -  PI | = ;   | 11         | NE         | SYS       | ът    | FM               |            |            |          |       |           |          |            |          | 5. 5 |            |         |              |            |                   |
|          |  |        |                   | 00.        |          |   |       |       | •••        |            | 5.        |       | <b>L</b> 111     | 1          |            | * -      |       |           |          |            |          |      |            |         |              |            |                   |
|          | WK B 9   | ┡ १    |                   |            |          |   |       |       |            |            |           |       |                  | 1          |            |          |       |           |          |            |          |      |            |         | •            |            |                   |
|          | 2 92137  | N      | 100               | 7          | 69       | 26  |       |       |            |            | 76        | 59    | 2 6 FX           |            | 18<br>18   | 37       | 82    | 5         | 58       | 14         | 4        |      | 1 /        | S ð     | 26           | 5          | 160               |
|          | PELINE   | ΤQ     | TAL               | 7          | 69       | 26-   | [     |       |            |            | 76        | ; 9   | 5 6 FX           | 1          | 18         | 37       | 82    | . 5       | 58       | 14         | 4        |      | 1 /        | 5.8     | 26           | 5          |                   |
| •        | 20g  |        |                   |            |          |   |       |       |            |            |           |       |                  |            |            |          |       |           |          |            |          |      |            |         |              | 1          |                   |
| ΞĻ       | PASO NA  | τU     | RAL               | GAS        | ; p      | IPE   | LINE  | -     | 5          | YS         | TEM       |       |                  |            |            |          |       | Į         |          |            |          |      |            |         |              |            |                   |
| c 1      | TIES SER   | Vik    | CE                |            |          |   |       |       |            |            |           |       |                  | Ì.         |            |          |       |           |          |            |          |      |            |         |              |            |                   |
| ST       | TIES SER   |        |                   |            |          | <i></i>   |       | ·.    | •          |            |           | _     | - ~              |            |            | _        |       |           |          | ~ ~        | ~        |      |            | ~ ^     | ~ ~          |            | 8 (               |
|          | 1E152137   | N      | 50                |            | 33       | 61-   |       | 10    | 8 6        | 56         | 14        | - 2   | 2 7 EX           |            | 9          | 3        | 91    |           | 4        | ຮວ         | 6 -      |      | (          | 54      | 6 3          | '          | 00                |
| 00       | NTINENTA<br>LIOTT A  | L : }  |                   | 4.         |          |   |       |       |            |            |           |       |                  |            |            |          |       |           |          |            |          |      |            |         |              |            |                   |
| ᄐᄔ       | LIOTT A<br>6P152237  | 15     | UN                |            | 1 73     | 65-   |       | 5 7   | 6 7        | 7 /        | 30        | 0     | 3 9 EX           |            | 18         | 7        | 02    |           | • • •    | o 5        | 7 -      |      | 1 :        | 2 9     | 26           |            | 160               |
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|          | 3R 32137   | N      |                   | 4          | 78       | 84-   |       | 2     | 29         | 98         | 50        | ) 1   | 8 S EX           |            | 18         | 7        | 82    |           | 51       | 4 0        | 0-       |      | 1 2        | 5 9     | S 6          | 5          | 160               |
| <b>A</b> |  | Ň      | 100               | 1          | 81       | 18-   |       | 36    | 9 0        | 9.3        | 55        | 5 1   | 1 1 FX           | ŀ          | 18         | 7        | 8.5   | 3         | 6        | 32         | 9-       |      | 1;         | 3 9     | 26           | 5          | 160               |
|          | 6N 92137   | Ň      | LOÕ               | 5          | 27       | $     \begin{array}{c}       1 & 8 - \\       4 & 3     \end{array}   $ |       | 8     | 922        | 15         | 44        | 4     | 1 1 EX<br>9 8    |            | 18         | 71       | 8 2   | 6         | 3 :      | 5 <u>8</u> | 9 -<br>0 |      | 1 /        | 3.9     | 26           | <b>i</b> ] | 160               |
| - 0      | CKHART A<br>5A272137<br>7D272137   | ŝ      | 00                | 3          | 24       | 05-   |       | 3     | 2 6        | 54         | 35        | 6     | 5 9 FY           |            | 18         | 7        | 8.2   | 1         | 6        | 87         | 7 -      |      | 1 2        | 2 9     | 26           | ;          | 160               |
|          | 5A272137<br>7D272137   | Ň      | ŏŏ                | ž          | 62       | 05-<br>76-  |       | Ļ     | 2 5<br>5 8 | 33         | žĕ        | 8     | 59EX<br>59EX     |            | Īĕ         | 7        | ĕ Ž   | -         | 8 e      | <b>ŏ</b> 7 | 7 -      |      | 1 2        | 29      | 26           | ,          | 160<br>160        |
| - 0      | CKHART A<br>10352137   |        |                   |            | 1 1      | 99-   |       | SÉ    | 8 3        | 3 2        | 28        | 0     | 3 1 EX           |            | 18         | 7        | 8.2   |           | 9        | > 4        | 9 –      |      | 1 2        | 2 0     | 26           |            | 160               |
|          | CKHART B   | 11     |                   |            |          |   |       |       |            | 1.2        |           |       |                  |            |            |          |       |           |          |            |          | 1    |            |         |              |            |                   |
|          | 3E112137<br>CKHART B   | N      | 00                |            | 73       | <u>s</u> o -  |       | 41    | 9.6        | 55         | 49        | 5     | 8 5 EX           |            | 18         | 78       | BS    | 3         | 0 !      | 5 0        | 3 -      |      | 1 2        | 3 9     | 26           | •          | 160               |
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| J        |  | JŅ     | T                 |            | • •      |   |       |       | · . •      | · .*       | 75        | 0     | 0 1 54           | Į          | 18         |          |       | -         | ~ .      | iò         | 9 –      |      | <b>م</b> ، |         | 5 6          |            | 160               |
|          | ATE  |        | 00                | 1          |          | 60-   |       | 2 2   | 33         | 5 <u>1</u> |           |       | 9 1 EX           |            |            |          |       |           |          | ,          | -        |      |            |         |              |            |                   |
|          | 2E102137   | N      | 00                | 1          | 87       | 77  |       | 3 2   | 69         | 33         | 3         | 9 :   | 1 6 EX           |            | 18         | 78       | 3 2   | 1         | 4 8      | B 6        | 6        |      | 1 2        | 9       | 2.6          |            | 160               |
| ŴΑ       | NTZ<br>2L212137  | NI     | 00                | 3          | 09       | 94  | .     | 5     | 59         | 2 3        | 15        | 4     | 0.1              |            | 18         | 7 8      | ч 2 I | 7         | 4        | 1 8        | 3        |      | 1 2        | 29      | 26           |            | 160               |
| 4 G.     |  |        | -                 | -          |          |   |       |       |            | Ŭ          |           |       |                  |            |            |          |       | -         | • •      |            | Ū        |      |            |         | ΨŪ           |            |                   |
|          | LF OIL CO  | 2 Å L  | <b>.</b>          |            |          | •   | 12    |       |            |            |           |       |                  |            |            |          |       |           |          |            |          |      |            | 1.1     |              |            |                   |
| ••       | 50302238   | N      | 00                | 2          | 23       | 69-   |       | L 8   | 4 7        | 75         | 4 0       | 8     | 4 4 FX           | ļ          | 18         | 78       | 32    | 2         | 20       | 5 6        | 2 -      |      | 1 2        | 2.9     | 2 6          |            | 1 6               |
|          | DDEP ALL   | c      |                   |            | ,        | · .   |       | •     | •          |            |           |       |                  |            |            | •        |       |           |          |            |          |      |            |         |              |            |                   |
| 5 A      | RPER OIL<br>RKEYS<br>16262137  |        | -3                | Ň          |          |   |       | •     |            |            |           |       |                  |            | 4          | •        |       |           |          |            |          |      |            |         |              |            | 1                 |
|          | 16262137   | N h    | . 0 0             |            | 55       | 51 -  | 1 1   | 8     | 4 2        | 8 8        | 23        | 9 '   | 7 9 EX           |            | 18         | 78       | 32    |           | 5:       | 19         | 7 -      | :    | 12         | 9       | 26           |            | 160               |
| чU       | MBLE 011   | RE     | F                 | <b>=</b> 0 |          | -   |       |       |            |            |           |       |                  |            |            |          |       |           |          |            |          |      |            |         |              |            |                   |
| зС       | INEBRY G   | ۹s[    | UN                | T          |          | -   |       |       | -          |            | ~ ~       |       | -                |            |            | ·<br>~ ~ |       | -         | ~ ~      |            | ~        |      |            |         |              |            | •                 |
| N        | 10102137<br>A FFRRFI   | μŇ     | . 0 0             | - 3        | 5 8      | 76-   | 4     | 13    | 57         | ' 8        | <u>75</u> | 8.    | 5 4 EX           |            | 18         | 18       |       | 5         | 70       | ז כ        | 5 -      |      | 1 2        | 9       | 26           | 1          | 160               |
|          | 21222237   | NI     | 00                | 4          | 80       | 97  |       | 8     | 1 5        | 5 2        | 39        | 92    | 4 5              |            | 18         | 78       | 3 2   | 5         | 8 7      | 2          | 7        |      | 1 2        | 29      | 56           |            | 160               |
| J _      | L GREENWK  | ၁၀၉    |                   | · 1        | 04       | 90  |       | א כ   | 9 c        |            | 1 3       | 7 -   | L 3 EX           |            | 18         | 7 6      | 12    |           | 5        | 3 6        | a .      | 1    | 1 2        |         |              | 1.         |                   |
| AF       | RDISON   | 1      | . ~ 0             |            |          |   |       |       | ÷.         |            |           |       |                  |            |            |          | · · · |           |          |            | · .      |      |            |         |              | 2          | 160               |
|          | 48342137   | NI     | 00                | 2          | 95       | 36-<br>33-  |       | Ş     | 62         | 20         | 32        | 1!    | 5 6 EX<br>9 3 EX |            | 18<br>18   | 7.8      | S S   | 1         | 3:       | 37         | 4 -      |      | 1 3        | 22      | 200          | H. *       | 160<br>160        |
| IE.      | W MEX ST   | S      |                   |            | •        | •   |       |       |            | 1.11       |           |       |                  |            |            |          | · • • |           | 6        | r 土        | ÷        | 1    |            |         | 1            |            | 160               |
| 1        | 2A 22237   | Ň      | 00                | _          | 16       | 64-   | 2     | 2 2   | 03         | 2          | 23        | 6     | 96FX<br>58FX     |            | 18<br>18   | 7.8      | 22    |           | 4 9      | 1          | 4 -      | :    | 12         | 9       | 5 6          |            | 160               |
| 1        | 40 22237   |        |                   | 8          | 3642     | 23-<br>50-  | .     | 5     | 00         | 5          | 2084      | 6     | 58EX<br>76EX     |            | 18         | 78       |       | 6         | 54       |            | 6 -      |      | ΤŞ         | 39      | 56           |            | 160               |
| ĩ        | LG7L7W7B77T777707<br>LG7L7W7B77T777707<br>EB0E2R2E20222X2222211<br>EB0E2R9547E2222211<br>EB0E2R9547E2222222<br>EB0E2R9547E2222222<br>EB0E2R9547E2222222<br>EB0E2R9547E2222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E22222<br>EB0E2R9547E22222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E222222<br>EB0E2R9547E2222222222<br>EB0E2R9547E222222222222<br>EB0E2R9547E222222222222222222222222222222222222 | NE     | ŏŏ                | . <b>.</b> | 44       | 64-<br>53-<br>50-<br>17-  |       | žĭ    | 06024      | 7          | 29<br>25  | 8:    | 3 4 EX           |            | 18<br>18   | 7878     | ŝŽ    | - <b></b> | 08       | 55         | 4-2-     |      |            | 3       | 56           | 1          | 160<br>160<br>160 |
| 1E       | WMEXICO  | sπ     |                   | EV         |          | 93-   |       | 20    |            |            | • • •     |       | 3 6 FY           |            |            | Ó F      |       |           |          |            | 0_       |      |            |         | 9:4          | 1          | - <b></b> 8       |

| கட                                      |                                  | E E           | R  | YI                  | ⊇ເ    | 20       |              | FL         |        | P          | A   | 50      | G                   | YS     | 371 | F. N    | 1          | C        | Τr | \$    |        |          |          |                |   |        |            |            |        | YE    | R          | 1 0        | 9.6        | 0                 |   | PAGE   | E :         |          |                                  | 2   |     |                 |            |
|---|----------------------------------|---------------|--|---------------------|-------|----------|--------------|------------|--------|------------|-----|---------|---------------------|--------|-----|---------|------------|----------|----|-------|--------|----------|----------|----------------|---|--------|------------|------------|--------|-------|------------|------------|------------|-------------------|---|--------|-------------|----------|----------------------------------|-----|-----|-----------------|------------|
|   |                                  | SCRIP         |  |                     |       |          | ACREAGE      | ۲ <u> </u> |        |            |     |         |                     | FE     | e   | 21      | JA         | R        | Ý  | 4     |        |          |          |                | 1 |        |            |            | M      | AR.   |            | مسطعم      | L          |                   | 1 | AF     | 2 F         | ۶,       |                                  |     | A   | CBEAG           | E OF       |
|   |                                  |               |  |                     |       |          | FACTOR       | BE         | GINNIN | GNE        | TAL | OWA     | 118 ±               | }      | NCF | ROD     | CTIO       | N        | 0  | VER/U | NDER   | PRO      | UCT      | ON ±           |   | URRENT | ALLO       | WABL       | ٤      | ENDIN | GNET       | ALL        | OWAB       | LE ±              |   | NEWJ   | 110         | CATIO    | DM                               |     | DEL | IVERA           |            |
|   | NR<br>1B                         | 13            | 21                                       |                     | 7     | Z.       | 100          |            |        |            | 3 3 | 34      | 1                   |        | :   | 2 7     | 7          | 6        | 5  | 2     | 24     | 4        | 2 -      | 4 <u>E</u> X   |   | 1      | 8          | 78         | 2      |       |            | 56         | 54         | 2                 |   | 1      | ι 2         | 9        | 2                                | 6   |     | 1               | 6 C        |
| N<br>M<br>WE                            | B<br>WE<br>3<br>C<br>T<br>I<br>G |               | NHNR                                     |                     |       |          | 1 O C        |            |        |            | 74  |         |                     |        | :   |         | 1          |          |    |       |        | 3        |          |                |   |        |            | 78         |        |       |            | 01         |            |                   |   |        |             |          | 2                                |     |     |                 | 6 C<br>6 O |
|   | -                                | <u></u>       |  | L 3<br>E T<br>5 0 1 |       | א<br>ס:  | 100          | 2          |        | 3          | 9 9 | 23      | 1                   |        |     | 7       | 6          | 9        | 9  |       | 32     | S        | 32       | 2<br>2         |   | 1      | 8          | 78         | 5      |       | 5.         | 1 0        | )1         | 4                 |   | 1      | . 2         | :9       | 5                                | 6   |     | L.              | 50         |
| 1.1                                     |                                  | 23            | 21                                       | 13;                 | 7     | Ņ        | 1 ° c        |            |        | 5          | 4 5 | 5 8     | 0 -                 |        |     | 2       | 3          | 7 (      | o  | 2     | 96     | 9        | 5 0      | D EX           |   | 1      | 8          | 78         | S      |       | i          | 8 1        | 6          | 8 -               | - | 1      | . 2         | 9        | 2                                | 6   |     | 1               | 6 0        |
| E U                                     | RK<br>BA<br>1M                   | M<br>NK<br>14 |  |                     | E   7 | RN       | E P F<br>7 5 |            | 7      |            | 4 Å | 3       | 9                   |        |     | 57      | 6          | 1.       | 4  |       | 32     | 0        | 5<br>5 7 | 3 EX           |   | 1      | <u> </u>   | 5 8        | 6      |       | ′<br>1 ·   | 70         | <u>к</u> 6 | 7.                |   |        | c           | 6        | 9                                | 4   |     | 1               | 20         |
|   | REA<br>EEAP                      |               | 0  |                     |       | Q        |              |            |        |            |     |         |                     |        |     |         | Ŭ          | <u> </u> | •  | -     | به و   | •<br>•   |          | C.A            |   | 4      |            | <i>,</i> 0 |        |       | ж.         | <i>,</i> , |            | , .               |   |        | ,           | Ū        | 2                                | -   |     | -               |            |
|   |                                  |               |  | 433                 |       |          | 100          |            |        |            | 7 9 | 8       | 8                   |        | 2   | 3       | 0          | 50       | S  | 1     | 5      | 0        | 3 2      | S EX           |   | 1      | 8          | 7 8        | 5      |       |            | 37         | 5          | 0                 |   | 1      | , 2         | 9        | 2                                | 6   |     | 1               | 6 0        |
| МŪ                                      | OWKZI-ZAMA                       | 0<br>2 4      |  |                     |       |          | 100          | ,          |        |            | 36  | 4       | 5 -                 |        | 4   | 5       | 6          | 20       |    | 4     | 6      | 5 (      | 5.5      | 5 EX           |   | 1      | 8          | 78         | 5      |       | 5.         | 74         | 8          | 3.                | _ | 1      | . 2         | 9        | S                                | 6   | -   | 10              | 60         |
|   | AL A                             | 2443          | 2000                                     |                     |       | - T [    |              |            |        |            |     |         | 5 -<br>6 -<br>3 -   | _Q<br> |     | 9<br>-4 | 61<br>5    | 58<br>81 | 3  | 50.   | 04     | 1920     | 94       | EX<br>EX<br>EX |   | 1<br>1 | 8 '<br>8 ' | 787878     | S<br>S |       | 3          | 1454       | 12         | 2000<br>1         | - | 1<br>1 | S<br>S<br>S | 9<br>9   | 200                              | 6   |     | 10              | 6 0<br>6 0 |
| O D D D D D D D D D D D D D D D D D D D | SE                               |               | 0  <br>Ne                                | L S                 |       | 1        | ΝĊΟ          |            |        |            | ۰.  |         |                     |        |     |         |            |          |    |       |        |          |          |                |   |        |            |            | -      |       |            |            | •          |                   |   |        |             |          |                                  |     |     |                 |            |
|   |                                  | 26<br>43      |  | 37                  | .1    | N<br>N   | 5 0<br>L O O |            |        |            |     |         | 1 <del>-</del><br>8 |        | 7   |         | 28         |          |    |       | 2      |          |          | - 1            |   |        |            | 39<br>78   |        |       |            |            |            | 9 -<br>1 -        |   | 1      |             | •        | 6<br>2                           |     |     |                 | 8 0<br>5 0 |
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| o w                                     | FN:                              | g 5<br>2 5    | 5 1<br>2 2                               |                     | 1     |          | 100<br>100   |            |        | 10         |     |         | а<br>5 —            |        | 4   | •       | 5          |          | 4  |       | 7      |          |          |                |   | 1<br>1 |            | 78<br>78   |        |       | 3 e<br>0 s |            |            | 9 -<br>1          | - |        | ÷ .         |          | 2                                |     |     | - 64 - 4<br>- 1 | 50         |
| <b>S</b> 1                              | MS                               |               | 53                                       |                     | -     |          | 00           | i i        |        |            |     |         | 9<br>8 -            |        | 2   |         | 5          | •        |    |       | 4      |          |          |                |   |        |            | 78         |        |       |            |            |            | 5 -<br>T          | - |        |             |          | 5                                |     |     |                 | 50         |
| HÅ                                      | M Day K                          | ļ.            | PEF                                      | E F<br>D<br>3 7     | 37    | Ň        | Б <b>с</b>   |            | -)     |            | 38  | 7       | ~                   | - 8    | -   | 7       | 1          |          | ,  |       | 0      | 7 -      | ~        |                |   |        | :<br>0.5   |            |        |       | a.         |            | 0          | 4                 |   |        | -           |          |                                  |     |     |                 | 1          |
|   |                                  | HA.           | <b>r</b> 1                               |                     | 1     | N<br>N   | 5 O<br>5 O   |            |        |            | 58  |         |                     |        |     |         | 1 ·<br>2 ( |          |    |       | 8      | 31<br>01 |          |                |   |        |            | 59<br>59   |        |       | 1          | 3          | 8<br>7     |                   |   |        |             |          | 6 :<br>6 :                       | -   | تمو | 1               | 3 0<br>3 0 |
| NHA                                     |                                  | PE            | NF                                       | 80 Ş                | E     |          | NC           | 1          |        |            |     | . بىر ا | <b>.</b>            |        |     |         |            | ~ -      |    | • •   | -      |          | •        |                |   |        |            |            |        |       |            | _          |            |                   |   |        |             | •        |                                  |     | 1   | 13              |            |
|   |                                  |               |  |                     |       |          | 75<br>¢0     |            |        | τC         | 0   | 6       | 9 –                 |        |     |         | 60         | J 7      | Ϊ  | 1     | 0      | 67       | , 6      | EX             |   | 1      | 4 C        | 8 (        | 6      |       | 2          | 3 <u>4</u> | ļ          | 0                 |   | 9.5    | 9           | 6        | 94                               | 4   |     | 12              | ! 0        |
| <b>5</b> 1                              |                                  | 24            | 2 2<br>2 2                               | 37                  |       | N<br>N 1 | 5 0<br>0 0   |            |        | 1 4<br>1 6 | 3   | 15      | 8 -<br>8            |        | 2   | 4<br>4  | 8 (<br>9 ( | 03<br>56 |    | 1     | 9<br>8 | 1121     | 56       | EX             |   | 1      | 93         | 9          | 12     |       | 9<br>1 C   | 7          | Sico       | 4 -               | - | 1      | 502         | 4<br>9 1 | 6 :                              | 3   | ſ   | 16              | 0          |
|   |                                  |               |  | 1.4                 | -     |          | : 0 R        | }          |        | •          |     |         |                     |        |     |         | •          |          |    |       |        |          |          |                |   |        |            |            |        |       |            |            |            |                   |   |        |             |          | •                                |     |     | <u>7</u>        | 7          |
| <b>P</b> A                              | MR6R5                            | 54            | 2 2<br>2 2<br>2 2                        | 37                  |       | - 1°     | 00           |            |        |            |     | ÷.,     | L -<br>5 -          |        |     |         | 1 1<br>8 1 |          | 1  |       | 21     |          |          |                |   |        |            | '8<br>'8   | 1      |       |            |            |            | 5 <u>-</u><br>1 - | 1 |        |             |          | 2 <del>(</del><br>2 <del>(</del> | 1 3 |     | 16              | 1.1        |
|   | ELL<br>Go<br>3k1                 | 5.54          |  |                     | 1     | 0        |              |            | •      | •          | •   |         |                     |        |     |         | •          |          |    |       |        |          |          |                |   |        | · •        | •          |        |       | <b>.</b> . |            | . 1        | • . •             |   |        |             |          | • •                              |     |     | 49              | 3          |
|   | 3 K 1                            | 15            | 21                                       | 37                  | '     | NI       | 00           |            | 1      | L 3        | 9   | 6 '     | 7 -                 |        |     | 2       | 38         | 30       | '  | 1     | 6 :    | 34       | 7        | EX             |   | 18     | 37         | 8          | S      |       | 5          | 4          | 3          | 5                 |   | 1      | 2           | 9 ;      | 2 6                              | 5   |     | 16              | ó          |

A STREET STREET STREET STREET STREET
| BLINEBRY P   | 0.01           | EL PASO SYSTE  |  | YEAR:1960                                 | PAGE: 3  |   |
|--|----------------|--|--|---|--|---|
| DESCRIPTION  | STATUS ACREAGE | FEBR   | ZUARY I  | MAR.                                      | APR. AC  | REAGE OR                                  |
|  | FACTOR         |  | RODUCTION OVER/UNDER PRODUCTION ±              | CURRENT ALLOWABLE ENDING NET ALLOWABLE .+ | NEW ALLOCATION DELL  |   |
| ARGO A<br>5F222137<br>LIVINGSTON   | NIOO           | 34678-   | 4287 48965 <sub>EX</sub>                       | 18782 30183-                              | 12926  | 160                                       |
| 8N 32137<br>9V 32137   | NIOO           | 33173  | 19223<br>52757 600935X                         | 18782<br>18782<br>41311-                  | 12926<br>12926   | $\begin{array}{c}1&6&0\\1&6&0\end{array}$ |
| LONG<br>5N112237<br>SARKEYS  | N100           | 20141-   | 8126 28267 EX                                  | 18782 9485-                               | 12926  | 160                                       |
| 2K232137<br>STATE 15   | N100           | 4 2 2 3 -  | 6364 10587EX                                   | 18782 8195                                | 12926  | 160                                       |
| ZH152137<br>TAYLOR GLE   | N 50           | 4772-  | 8435 13207 <u>x</u>                            | 9391 3816-                                | 6463   | 80  |
| 1K 32137   | N 75           | 14965-   | 5449P060414EX                                  | 14086 46328-                              | 9694   | 120                                       |
| 51222137<br>13N222137  | NH OO<br>NH OO |  | 9750 P101578 X<br>1633 53633 X                 | 18782<br>18782 82796-<br>34851-           | 12926<br>12926   | $\begin{array}{c}160\\160\end{array}$     |
| SINCLAIR O   | IL GA          | S  |  |   |  |   |
| 4F232237<br>SARKEYS  | NIOO           | 11265  | .3119 1854 <sub>EX</sub>                       | 18782 16928                               | 12926  | 160                                       |
| 1J232137<br>TURNER GAS   | NLOO           |  | 5085 34572FX                                   | 18782 15790-                              | 12926  | 160                                       |
| 3N292137   | NIOO           |  | 104250   | 18782 123032                              | 12926  | 160                                       |
| 1H202137   | N 50           | 20365-   | 177 20542 <sub>EX</sub>                        | 9391 11151-                               | 6463   | 80  |
| WALTER LYN   |                |  |  |   |  |   |
| 4L 12237<br>EVA OWENS  | NIOO           |  | 1127 40568FX                                   | 18782 21786-                              | 12926  | 160                                       |
| 3C 32237   | N 49           | 3882   | 2975 907                                       | 9203 10110                                | 6334   | 79  |
| SARKEYS  |                |  |  |   |  |   |
| 3C262137<br>STATE Q<br>1N362137  | N100<br>N 75   |  | 41388EX<br>4886 47801FX                        | 18782 22606-<br>14086 33715-              | 12926  | 160                                       |
| STATE S<br>2C152137  | N 75           | 34506-   | 4886 47801EX<br>1226 35732EX                   | 14086 33715-<br>18782 16950-              | 9694<br>12926  | 120                                       |
| WESTERN OIL  |                |  | I Z Z O J J J J Z Z Z                          | 10,02 10,00-                              |  | 100                                       |
| DRINKARD<br>4H252237   |                |  | 9539 530005                                    | 18782 34218-                              | 12926  | 100                                       |
|  | TOTAL          | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 9 5 3 9 5 3 0 0 EX<br>3 4 5 1 1 5 5 7 1 3 6 EX | 18782<br>1159598<br>397538-               | 7 9 8 0 4 9  | 100                                       |
| MOBIL OIL  | COMPA          | NY PIPELINE S  | YSTEM  |   |  |   |
| SOCONY MOB<br>E O CARSON   |                | L COMPANY INC  | ORPORATED                                      |   | an an the second se |   |
| 196282137  | N 75           | 53408-<br>53408-                                     | 5 3 4 0 8 EX<br>5 3 4 0 8 EX                   | 14086<br>14086<br>39322-<br>39322-        | 9694<br>9694   | 120                                       |
| PERMIAN BAS  | SIN P          | PELINE SYSTE   | M  |   |  |   |
| AMERADA PE   | FROLE          | MU   |  |   |  |   |
| A B BAKER<br>31102237<br>J G RANDLE<br>1F202137  | Ň 50<br>A UN   | 23749 1  | 2260 11489                                     | 9391 20880                                | 6463   | 80  |
| 1F202137   |                | 27377  | 6366 21011                                     | 9391 30402                                | 6463   | 80  |
| J G RANDLE<br>1F202137<br>STATE DA<br>4 1 162137<br>E W WALDEN<br>7N152237   | N100           | 40354  | 7506 32848                                     | 18782 51630                               | 12926  | 160                                       |
| 7N152237<br>E WOOD   | N100           | 49080 1  | 5153 33927                                     | 18782 52709                               | 12926  | 160                                       |
| la <u>na seconda de la composición de la</u> | <u> </u>       |  |  |   |  |   |

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| Instruct  | BLINEBRY ROC                             | <u>, L.</u>       |   | ASIN SYS  | TEM CTO                 |   | YEAR: 1960     | PAGE: 4        | ACREAGE OR                            |
|--|--|-------------------|---|---|-------------------------|---|----------------|----------------|---------------------------------------|
| 10H222237       N100       51270       11860       39410       18782       58192       12926         ANDER50N       PICHARD       1       13115       2326       14086       16412       9694         CITIESONSERVICE       BISAN       75909       18782       94691       12926         BR 6M532237       N100       81248       5339       75909       18782       94691       12926         STFTESE22238       N100       40098       11987       28111       18782       46893       12926         STFTESE2238       N100       45175       20091       26084       18782       45861       12926         GE CTY ACL       CO       35064       11265       23799       18782       45561       12926         GULF OFF       Strong       N100       38410       13525       24885       18782       40785       12926         J ACCARCELSTS       N100       38410       13525       24885       18782       43667       12926         J ACCARCELSTS       N100       42796       15149       27647       18782       46429       12926         J ACCARCELSTS       N100       42796       15149       27647       18782 <td>DESCRIPTION</td> <td>ACREAGE<br/>FACTOR</td> <td>and the second se</td> <td></td> <td>OVER UNDER PRODUCTION +</td> <td></td> <td></td> <td></td> <td>DELIVERABILITY</td>  | DESCRIPTION                              | ACREAGE<br>FACTOR | and the second se |   | OVER UNDER PRODUCTION + |   |                |                | DELIVERABILITY                        |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  | 10H222237 N                              | 1200              |   |   |                         | and all administration of the providence of the state of |                | 12926          | 160                                   |
| 1        |  | CHA               | RD  |   |                         |   |                |                |                                       |
| BR UNS OR Son B, NI 00       81248       5339       75909       18782       94691       12926         BR 7PS 32237       NI 00       40098       11987       28111       18782       46893       12926         STATE 32237       NI 00       46175       20091       26084       18782       44866       12926         STATE 32237       NI 00       46175       20091       26084       18782       44866       12926         STATE 32237       NI 00       35064       11265       23799       18782       42581       12926         GULF 0'L       Co       35064       12305       16379       18782       40765       12926         GULF 0'L       Co       38481       13525       24885       18782       40765       12926         State 307 N       Ni 00       38410       13525       24885       18782       42667       12926         State 307 N       Ni 00       48831       6745       40086       18782       42462       12926         J N068282137       Ni 00       47641       14312       3329       18782       46429       12926         J N68284446       17641       14312       332916       18782   | LEE<br>11232237 N                        | V 75              | 15441   | 13115   | 2326                    | 14086   | 16412          | 9694           | 120                                   |
| b       M       32237       N100       61248       5339       75909       18782       94691       12926         ST       A       40098       11987       28111       18782       46893       12926         ST       A       40098       11987       28111       18782       46893       12926         ST       A       6675       20091       26084       18782       44866       12926         GE       TY       0.1       C       0       35064       11265       23799       18782       42581       12926         A       MANDA       C       B       35315       13312       22003       18782       40785       12926         A       MANDA       35315       13312       22003       18782       43667       12926         A       MANDA       36410       13525       24885       18782       43667       12926         A       SAC2337       N100       36411       14312       3329       18782       22111       12926         A       SAC2337       N100       47641       14312       3329       18782       22111       12926         C       A <t< td=""><td></td><td>CΕ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |  | CΕ                |   |   |                         |   |                |                |                                       |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | 6M 32237 N                               | 1200              | 81248   | 5339  | 75909                   | 18782   | 94691          |                | 160                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | 7P 32237 N                               | 1200              | 40098   | 11987   | 28111                   | 18782   | 46893          | 12926          | 160                                   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  |  | 100               | 46175   | 20091   | 26084                   | 18782   | 44866          | 12926          | 160                                   |
| SP202137       NIOO       35064       11265       23799       18782       42501       12926         GULFOLL       OF       A       1252237       NIOO       26684       12305       16379       18782       40785       12926         GULFOLL       OF       35315       13312       22003       18782       40785       12926         POLS       2632238       NIOO       38410       13525       24885       18782       43667       12926         POLS       2632237       NIOO       48831       8745       40086       18782       58868       12926         POLS       26237       NIOO       48831       8745       40086       18782       58868       12926         POLS       26262137       NIOO       48831       8745       40086       18782       22111       12926         EVENDES       2837       NIOO       47834       9248       38586       18782       46429       12926         GULFC       11261       25876       18782       47972       12926       12926         GUARS       NIOO       41614       12424       29100       18782       44658       12926         GUARS </td <td>GETTY OLL CO</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | GETTY OLL CO                             |                   |   |   |                         |   |                |                |                                       |
| A       MANDA       28684       12305       16379       18782       35161       12926         T       F       200       35315       13312       22003       18782       40785       12926         D       35322       22003       18782       40785       12926         D       35322       22003       18782       40785       12926         D       35322       22003       18782       43667       12926         D       35375       30732       3718       27014       14086       41100       9694         D       Nocesser       22111       12926       12926       12926       12926       12926         Nocesser       1700       48331       8745       40086       18782       22111       12926         Nocesser       1100       17641       14312       3329       18782       427972       12926         D       Nocesser       1337       11261       212926       18782       47972       12926         D       100       47834       9248       38586       18782       47972       12926         D       Notesser       100       45520       12302 <td< td=""><td>D C PARDY<br/>5P202137 N</td><td>1200</td><td>35064</td><td>11265</td><td>23799</td><td>18782</td><td>42581</td><td>12926</td><td>160</td></td<>   | D C PARDY<br>5P202137 N                  | 1200              | 35064   | 11265   | 23799                   | 18782   | 42581          | 12926          | 160                                   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |  | 2P                |   |   |                         |   |                |                |                                       |
| 20322238       N100       35315       13312       22003       18782       40785       12926         0 YK 23 2237       N100       38410       13525       24885       18782       43667       12926         0 YK 23 2237       N100       48831       8745       40086       18782       58868       12926         0 YK 23 2237       N100       48831       8745       40086       18782       58868       12926         0 YK 23 2238       N 100       42796       15149       27647       18782       22111       12926         0 YK 23 238       N 100       42796       15149       27647       18782       46429       12926         0 YK 23 237       N 100       47834       9248       38586       18782       57368       12926         0 YK 28 2437       N 100       41614       12424       29190       18782       47972       12926         0 YK 408       23318       18782       52100       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926       12926  | 1 J252237 K                              | 1200              | 28684   | 12305   | 16379                   | 18782   | 35161          | 1              | 160                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | 2G322238 N                               | 1200              | 35315   | 13312   | 22003                   | 18782   | 40785          | 12926          | 16C                                   |
| 40282137       N100       48831       8745       40086       18782       58868       12926         0       0       0       17641       14312       3329       18782       22111       12926         0       1       0       17641       14312       3329       18782       22111       12926         0       1       0       17641       14312       3329       18782       22111       12926         0       1       0       42796       15149       27647       18782       46429       12926         0       1       12926       15149       27647       18782       46429       12926         0       1       12926       15149       27647       18782       46429       12926         0       1       12424       29190       18782       47972       12926       12926         0       37137       11261       25876       18782       52100       12926       12926         0       1       192202       33318       18782       52089       12926       12926         0       1       12926       12275       3225489       18782       51503       12926   | 3K232237 N                               | 1200              | 38410   | 13525   | 24885                   | 18782   | 43667          |                | 160                                   |
| DR       INKAFLD       B       N100       17641       14312       3329       18782       22111       12926         E       AVES       2237       N100       42796       15149       27647       18782       46429       12926         E       ARX       2237       N100       47834       9248       38586       18782       57368       12926         GAXX       2137       N100       47834       9248       38586       18782       47972       12926         GUEAXX       2137       N100       41614       12424       29190       18782       44658       12926         GUEAXX       2238       N100       45620       12302       33318       18782       52100       12926         GUTMAN       2238       N100       45159       19670       25489       18782       51036       12926         GUTMAN       2237       N100       45159       19670       25489       18782       51036       12926         GUAX       1442237       N100       45159       19670       25489       18782       51036       12926         GUAX       142237       N100       45159       19670       25489 </td <td>40282137 N</td> <td></td> <td>48831</td> <td>8745</td> <td>40086</td> <td>18782</td> <td>58868</td> <td>12926</td> <td>16 C</td>  | 40282137 N                               |                   | 48831   | 8745  | 40086                   | 18782   | 58868          | 12926          | 16 C                                  |
| 1P302238       NI000       17641       14312       3329       18782       22111       12926         C AVES       15149       27647       18782       46429       12926         C AVES       1100       47834       9248       38586       18782       57368       12926         C USANK       100       41614       12424       29190       16782       47972       12926         S GUEAKING       N100       41614       12424       29190       16782       47972       12926         S GUEAKING       N100       45620       12302       33318       18782       52100       12926         GUTMAN       46337       13030       33307       18782       52089       12926         GUTMAN       45529       12275       32254       18782       51036       12926         C L HAREDY       N100       45159       19670       25489       18782       51036       12926         C L HAREDY       N100       45159       19670       25489       18782       51036       12926         C L HAREDY       N100       45569       12275       32254       18782       51503       12926         C L HAREDY   | J N CARSON C<br>6P282137 N<br>DRINKARD R | 75                | 30732   | 3718  | 27014                   | 14086   | 41100          | 9694           | 120                                   |
| GA102237       N100       42796       15149       27647       18782       46429       12926         GUBANK22137       N100       47834       9248       38586       18782       57368       12926         GUARS       2137       N100       41614       12424       29190       18782       47972       12926         GUARS       2137       N100       416614       12424       29190       18782       44658       12926         GUARS       2137       N100       45620       12302       33318       18782       52100       12926         GUARS       11160       45620       12302       33318       18782       52100       12926         GUARS       11160       46337       13030       33307       18782       52089       12926         GUARS       11461       52759       19670       25489       18782       51036       12926         GUARS       11461       52751       32254       18782       51036       12926       12926         GUARS       11461       52721       18782       51036       12926       12926       12926       12926       12926       12926       12926       12926   | 1P302238 N                               | 1100              | 17641   | 14312   | 3329                    | 18782   | 22111          | 12926          | 160                                   |
| A H 2 22 1 3 7       NI 0 0       47834       9248       38586       18782       57368       12926         B V 5 2 8 2137       NI 0 0       37137       11261       25876       18782       44658       12926         G U 7 M AN       2 2 3 8       NI 0 0       37137       11261       25876       18782       44658       12926         G U 7 M AN       8 4 1 0 0       45620       12302       33318       18782       52100       12926         G U 7 M AN       8 4 1 0 0       4537       13030       33307       18782       52089       12926         G U 7 M AN       8 4 4 2 7 1       12926       12926       12926       12926       12926         G U 7 M AN       8 4 4 2 7 1       12926       12926       12926       12926       12926         G U 7 M AN       8 4 4 2 7 1       12926       12926       12926       12926       12926       12926       12926         G U 7 M AN       8 5 8 2       11161       32721       18782       51503       12926       12926       12926         G U 7 M AN       9 0 4 6 7 7 7       11591       35186       18782       53968       12926       12926       12926       12926       1292  | 64102237 N<br>EUBANK                     | 100               | 42796   | 15149   | 27647                   |   | •              |                | 160                                   |
| $\begin{array}{c} \mathbf{F}_{2}^{2} \mathbf{F}_{2}^{2} \mathbf{F}_{2}^{2} \mathbf{F}_{3}^{2} \mathbf{F}_{1}^{2} \mathbf{F}_{2}^{2} \mathbf{F}_{1}^{2} \mathbf{F}_{2}^{2} \mathbf{F}_{2}^{2} \mathbf{F}_{1}^{2} \mathbf{F}_{2}^{2} \mathbf{F}_{2}^{2$ | 4H222137 N                               | 1200              | 47834   | 9248  | 38586                   | 18782   | 57368          | 12926          | 160                                   |
| 2 C 1 9 2 3 8       N1 0 0       4 5 6 2 0       1 2 3 0 2       3 3 3 1 8       1 8 7 8 2       5 2 1 0 0       1 2 9 2 6         GU 1 N 1 9 2 2 3 8       N 1 0 0       4 6 3 3 7       1 3 0 3 0       3 3 3 0 7       1 8 7 8 2       5 2 0 8 9       1 2 9 2 6         C L       HARDY       N 1 0 0       4 5 1 5 9       1 9 6 7 0       2 5 4 8 9       1 8 7 8 2       5 1 0 3 6       1 2 9 2 6         6 H 4 2 2 3 7       N 1 0 0       4 4 5 2 9       1 2 2 7 5       3 2 2 5 4       1 8 7 8 2       5 1 0 3 6       1 2 9 2 6         7 C 1 4 2 2 3 7       N 1 0 0       4 4 5 2 9       1 2 2 7 5       3 2 2 5 4       1 8 7 8 2       5 1 5 0 3       1 2 9 2 6         A 4 1 6 2 1 3 7       N 1 0 0       4 6 7 7 7       1 1 5 9 1       3 5 1 8 6       1 8 7 8 2       5 3 9 6 8       1 2 9 2 6         7 H 3 2 2 3 7       N 1 0 0       5 7 7 2 9       8 5 3 0       4 9 1 9 9       1 8 7 8 2       6 7 9 8 1       1 2 9 2 6       1         MARK       OWEN N       N 1 0 0       5 2 7 3 6       9 3 9 6       4 3 3 4 0       1 8 7 8 2       6 7 9 8 1       1 2 9 2 6       1         A L (CE E DADDO NCK O       5 2 7 3 6       9 3 9 6       4 3 3 4 0       1 8 7 8 2       1 1 5 9 2 0       1 2 9 2 6 <t< td=""><td>5F282137 N<br/>9G282137 N</td><td></td><td>41614<br/>37137</td><td><math>12424 \\ 11261</math></td><td>29190<br/>25876</td><td><math>   \begin{array}{c}     1 &amp; 8 &amp; 7 &amp; 8 &amp; 2 \\     1 &amp; 8 &amp; 7 &amp; 8 &amp; 2   \end{array} </math></td><td>47972<br/>44658</td><td>12926<br/>12926</td><td><math display="block">\begin{array}{c}160\\160\end{array}</math></td></t<>   | 5F282137 N<br>9G282137 N                 |                   | 41614<br>37137  | $12424 \\ 11261$  | 29190<br>25876          | $   \begin{array}{c}     1 & 8 & 7 & 8 & 2 \\     1 & 8 & 7 & 8 & 2   \end{array} $   | 47972<br>44658 | 12926<br>12926 | $\begin{array}{c}160\\160\end{array}$ |
| GUTMAN       BLT       N100       46337       13030       33307       18782       52089       12926         C       L       HARDS       Y       N100       45159       19670       25489       18782       44271       12926         HUGH       Y       N100       45159       19670       25489       18782       51036       12926         HUGH       Y       N100       44529       1275       32254       18782       51036       12926         GUTMARD       Y       N100       44529       1275       32254       18782       51036       12926         HUGH       Y       N100       46777       11591       35186       18782       53968       12926         H       LECONARD       Y       N100       46777       11591       35186       18782       58517       12926         MARK       32237       N100       57729       8530       49199       18782       67981       12926         MARK       32237       N100       52736       9396       43340       18782       62122       12926       12926         MARK       S237       N100       52736       9396       43340 <td>GUTMAN<br/>20192238 N</td> <td>100</td> <td>45620</td> <td>12302</td> <td>33318</td> <td>18782</td> <td>52100</td> <td>12926</td> <td>160</td>   | GUTMAN<br>20192238 N                     | 100               | 45620   | 12302   | 33318                   | 18782   | 52100          | 12926          | 160                                   |
| 5L202137       N100       45159       19670       25489       18782       44271       12926         HUGH       42237       N100       44529       12275       32254       18782       51036       12926         TC142237       N100       43882       11161       32721       18782       51036       12926         H LEONAGD E       ST       N100       46777       11591       35186       18782       53968       12926         MARK       32237       N100       45693       5958       39735       18782       58517       12926       1         MARK       32237       N100       57729       8530       49199       18782       67981       12926       1         MARK       00057729       8530       49199       18782       67981       12926       1         MARK       00052736       9396       43340       18782       62122       12926       1         MARK       00052736       9396       43340       18782       62122       12926       1         SCARBOROUGH       104186       7048       97138       18782       46459       12926       1         SCARBOROUGH       100   | GUTMAN BLT<br>1N192238 N                 |                   |   |   |                         |   |                | i - I          | 160                                   |
| 6H142237       N1000       44529       12275       32254       18782       51036       12926         7C142237       N100       43882       11161       32721       18782       51503       12926         4A162137       N100       46777       11591       35186       18782       53968       12926         MARK       32237       N100       45693       5958       39735       18782       58517       12926         MARK       32237       N100       45693       5958       39735       18782       67981       12926       1         MARK       32237       N100       57729       8530       49199       18782       67981       12926       1         MARK       00342137       N100       52736       9396       43340       18782       62122       12926       1         ALICE       104186       7048       97138       18782       47753       12926       1         SCARBOROUGH       N100       53587       24616       28971       18782       47753       12926       1         4F312238       N100       45563       17886       27677       18782       64638       12926       1   | 5L202137 N                               | 100               | 45159   | 19670   | 25489                   | 18782   | 44271          | 12926          | 160                                   |
| H       LEONARD F       N100       46777       11591       35186       18782       53968       12926       1         MARK       7H       32237       N100       45693       5958       39735       18782       58517       12926       1         Y       MCCORMACK       00000       57729       8530       49199       18782       67981       12926       1         MARK       00000       52736       9396       43340       18782       62122       12926       1         ALICE       PADDOCK       104186       7048       97138       18782       115920       12926       1         SCARBOROUGH       53587       24616       28971       18782       47753       12926       1         4F312238       N100       45563       17886       27677       18782       46459       12926       1         4H302238       N100       48429       2573       45856       18782       64638       12926       1         0H10       0LCO       2837       2573       45856       18782       64638       12926       1  | 6H1422371 N                              | 100               | 44529   | $12275 \\ 11161$  | 32254<br>32721          | 18782   | 51036<br>51503 | 12926<br>12926 | 160<br>160                            |
| MARK<br>7H       32237       N100       45693       5958       39735       18782       58517       12926       1         W       T       MCCORMACK<br>MCCORMACK       N100       57729       8530       49199       18782       67981       12926       1         MARK<br>60342137       N100       52736       9396       43340       18782       62122       12926       1         ALICE<br>FADDO<br>SCARBOROUGH<br>SCARBOROUGH<br>4F312238       100       104186       7048       97138       18782       415920       12926       1         SCARBOROUGH<br>4F312238       53587       24616       28971       18782       47753       12926       1         VIVIAN<br>4H302238       N100       45563       17886       27677       18782       46459       12926       1         VIVIAN<br>4H302238       N100       48429       2573       45856       18782       64638       12926       1         OHIO<br>EDITH<br>EDITHER       A       2573       45856       18782       64638       12926       1  | H LEONARD E                              | ST                | •   | 1. The second | -                       |   |                |                | 160                                   |
| W T MCCORMACK<br>9P322137 N100       57729       8530       49199       18782       67981       12926       1         MARK OWEN<br>60342137 N100       52736       9396       43340       18782       62122       12926       1         ALICE FADDOCK<br>5E 12237 N100       104186       7048       97138       18782       115920       12926       1         SCARBOROUGH<br>4F312238 N100       53587       24616       28971       18782       47753       12926       1         VIVIAN<br>4H302238 N100       48429       2573       45856       18782       64638       12926       1         OHIO OIL CO<br>EDITH       CO       601L CO       CO       64638       12926       1   | MARK<br>7H 32237 N                       | 100               |   |   |                         |   |                |                | 160                                   |
| MARK OWEN       0WEN       000000000000000000000000000000000000  | W T MCCORMAC                             | K                 |   | - P   |                         | 1 e 1 e 1   |                |                | 160                                   |
| ALICE PADDOCK<br>56 12237 N100 104186 7048 97138 18782 115920 12926 1<br>5CARBOROUGH EST 53587 24616 28971 18782 47753 12926 1<br>4F312238 N100 45563 17886 27677 18782 46459 12926 1<br>4H302238 N100 48429 2573 45856 18782 64638 12926 1<br>0H10 01L CO<br>EDITH BUTLER A   | MARKOWENI                                |                   | · · · · 1   | • •   |                         |   |                |                | 160                                   |
| 4H302238 N100 48429 2573 45856 18782 64638 12926 1<br>0H10 01L CO<br>EDITH BUTLER A  | ALICE PADDOC                             | : K 🐘             |   |   | · · ·                   |   |                |                | A 11                                  |
| 4H302238 N100 48429 2573 45856 18782 64638 12926 1<br>0H10 01L CO<br>EDITH BUTLER A  | SCARBOROUGH                              | EST<br>1100       |   |   | · · · · ·               |   |                | -              | 100                                   |
| OHIO OIL CO<br>EDITH BUTLER A  | VIVIAN                                   | 1 1               |   |   |                         | 1   |                |                | 160                                   |
|  |  |                   | 40469   | 2013  | 40000                   | TOIOS   | 040-0          | 16966          | 160                                   |
| 1L182238 M100 466 466 1179 1179 1179 1<br>LYNCH WALTER 1179 1179 1   | EDITH BUTLER<br>11182238 M               | 100               | 466   | 466   |                         | 1179  | 1179           | 1179           | 160                                   |

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| BLINEBRY P                                      | -      |                   | PERMIAN B                 | ASIN SYSTEM CT                               | D                               | YEAR: 1960             | PAGE: 5   | ACREAGE OR                            |
|---|--------|-------------------|---------------------------|--|---------------------------------|------------------------|---|---------------------------------------|
| DESCRIPTION                                     | STATES | ACREAGE<br>FACTOR | BEGINNING KET ALLOWABLE ± | FEBRUARY<br>HCF PRODUCTION OVER/UNDER PRODUC |                                 | ENDING NET ALLOWABLE ± | HEW ALLOCATION  | DELIVERABILITY                        |
| 40 12237  | Ň      | 100               | 43752                     | 11168 3258                                   |                                 | 51366                  | 12926   | 160                                   |
| MARSHALL B<br>4272137                           | N      | 100               | 30866                     | 9208 2165                                    | 8 18782                         | 40440                  | 12926   | 160                                   |
| WEN<br>2M352137<br>NM TURNER                    | N      | 100               | 48281                     | 12290 3599                                   | 1 18782                         | 54773                  | 12926   | 160                                   |
| 31292137  |        | 50                | 17319                     | 1270 1604                                    | 9 9391                          | 25440                  | 6463  | 80                                    |
| 20152137<br>.00 WORTHA                          | Ň      | 100               | 46082                     | 9651 3643                                    |                                 | 55213                  | 12926   | 160                                   |
| 9E112237<br>12H112237                           | N      | 100<br>100        | 40531<br>48106            | 14872<br>8900<br>3920                        | 9 18782<br>6 18782              | 44441<br>57988         | 12926<br>12926  | $\begin{array}{c}160\\160\end{array}$ |
| PAN AMERIC                                      | AN     |                   |                           |  |                                 |                        |   | 0.0                                   |
| 2F 32237  | Ņ      | 50                | 30186                     | 5899 2428                                    |                                 | 33678                  | 6463  | 80                                    |
| 4N342137<br>50U ROYALT                          | Y · {  | 100               | 50585                     | 10774 3981                                   |                                 | 58593                  | 12926   | 160<br>160                            |
| 50 42137<br>6H 92137<br>STATE C TR              | ZZ-    | 100               | 45797<br>47721            | 6883 3891<br>11087 3663                      | 4 18782<br>4 18782              | $57696 \\ 55416$       | $   \begin{array}{c}     1 & 2 & 9 & 2 & 6 \\     1 & 2 & 9 & 2 & 6   \end{array} $ | 160                                   |
| 4F162137  | Ň      | ž o o             | 49444                     | 8297 4114                                    | 7 18782                         | 59929                  | 12926   | 160                                   |
| 5E362137<br>V H TURNER                          | Ň      | 100               | 45907                     | 10185 3572                                   | 2 18782                         | 54504                  | 12926   | 160                                   |
| 32292137  | Ň      | 50                | 23626                     | 7963 1566                                    | 3 9391                          | 25054                  | 6463  | 8 0                                   |
| I G PENROS                                      |        | INC               |                           |  |                                 |                        |   |                                       |
| 3N122237<br>5P122237                            | Ň      | L 0 0<br>7 5      | 40116<br>28098            | 13692 2642<br>4569 2352                      | 4 18782<br>9 14086              | 45206<br>37615         | 12926<br>9694   | 160                                   |
| LLIOTT HI<br>1E122237                           | Ň      |                   | 15002                     | 14933 6                                      | 9 18782                         | 18851                  | 12926   | 160                                   |
|   | Î.Ļ    | GA                | S / ·                     |  |                                 |                        |   | -                                     |
| 28232137<br>R CONE A                            | Ņ      | 75                | 42103                     | 6375 3572                                    |                                 | 49814                  | 9694  | 120                                   |
| 2L262137  | Ņ      | LOO               | 45290                     | 5521 3976                                    |                                 | 58551                  | 12926   | 160                                   |
| 3K362137  | -      | 100               | 41505                     | 9464 3204                                    | 1 18782                         | 50823                  | 12926   | 160                                   |
| KELLY OIL                                       | Ç      |                   | C                         | 10401 4404                                   |                                 | ~ 7 4 7 6              |   |                                       |
| 15J102237                                       |        | 01                | 64454<br>- COMPANY        | 19491 4496<br>INCORPORATED                   | 3 28173                         | 73136                  | 19388   | 249                                   |
| RUNSON AR                                       | 601    | 00                |                           | 8086 3713                                    | 4 18782                         | 55916                  | 12020   | 160                                   |
| 18 92237<br>6E102237<br>0 CARSON                | Ň      | ĬŎŎ               | 45220<br>37290            | 2377 3491                                    | 18782           3         18782 | 55916<br>53695         | $12926\\12926$  | 160                                   |
| 85332137  | Ň      |                   | 93728                     | 13382 8034                                   |                                 | 99128                  | 12926   | 1160                                  |
| 28332137  | Ň      | 49                | 22873                     | 16898 597                                    |                                 | 15178                  | 6334  | 79                                    |
| 7P332137  | MP     | 00                | 2986                      | 2986   | 7384                            | 7384                   | 7384  | 150                                   |
| 8 J 1 1 2 2 3 7<br>ARSHALL U<br>3 D 3 4 2 1 3 7 | N I D  | 00                | 37552                     | 9735 2781                                    |                                 | 46599                  | 12926   | 160                                   |
| 3D342137<br>ILLIAMSON<br>1A232137               | N      | 25                | 38722<br>21114-           | 13741 2498<br>P02111                         |                                 | 43763<br>16419-        | 12926<br>3231   | 160                                   |
| UNRAY MID                                       | çek    | NT                |                           |  |                                 |                        |   |                                       |
| 1A292137  | Ň      | 0 0               | 38898                     | 18187 2071                                   | L 18782                         | 39493                  | 12926   | 160                                   |

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| BLINEE  | 3RY                            | POG    |           | PE       | RM      |            | N          | B.A      | SL       | N                                     | SY       | sт         | EM                | С        | тс         | >    |    |         |              |                   | Y E              | AR       | 19       | 6      | 0        | PA        | GE   | :            | (        | 5        |                        |
|---|--------------------------------|--------|-----------|----------|---------|------------|------------|----------|----------|---------------------------------------|----------|------------|-------------------|----------|------------|------|----|---------|--------------|-------------------|------------------|----------|----------|--------|----------|-----------|------|--------------|----------|----------|------------------------|
| DESCRIP   | TION                           | STATI  | ACREAG    | E        |         |            | OWABLE     | F7       | EB       | RU                                    | AR       | Y          |                   |          |            |      | -  |         |              |                   | AR               |          |          |        |          |           | CI D |              |          | DELI     | REAGE OR<br>VERABILITI |
|   |                                |        |           | BIG      | INNINGN | ET ALL     | OWABLE     | <u> </u> | NCE      | PRODU                                 | CTION    | 0)         | <u>er/ung</u>     | ERFR     | DEUCTIC    | DN : | c  | URREN   | T ALLO       | WABLE             | <u>. €nD</u><br> | ING NE   | TALLO    | WARL   | <u> </u> | <u>}B</u> |      | <u>terat</u> |          |          |                        |
| STATE<br>2N16                                   | 213                            |        | 15<br>150 |          | 2       | :28        | 394        |          | .*       | 8                                     | 86       | 9          | 1.                | 4 0      | 25         | 5    |    |         | 9 :          | 391               |                  | 2        | 34       | 1      | 6        |           |      | 64           | 6:       | 3        | 8 0                    |
| TEXACO<br>BLINEB<br>1019                        | 3RY                            |        |           |          | 4       | 8 6        | 535        |          |          | 20                                    | 91       | 8          | S                 | 77       | 17         | ,    |    | 1       | 18           | 782               |                  | 4        | 64       | 9      | 9        |           | 1    | 29           | 26       | 5        | 160                    |
| T P C<br>ELLIOT<br>1E13                         | DAL<br>T B                     | 11     | SFR       |          |         | 70         | 946        |          |          | 1 1                                   | 80       | 1          | Á                 | 0 1      | 45         | ;    |    | 4       | 10           | 782               |                  | 6        | 09       | 2      | 7        |           | 1    | 2 9          | 026      | s        | 160                    |
| ELLIOT  | <b>T</b> 4                     | B      | 115       |          |         |            |            |          |          |                                       |          |            |                   |          |            |      |    |         |              |                   | 1                |          |          |        |          |           |      |              | 26       | i        | 160                    |
| 4A15<br>WALDEN                                  |                                |        | 1100      |          | -       |            | 063        |          |          |                                       | 76       |            | •                 |          | 94         |      |    |         |              | 782               |                  |          | 40       |        |          |           |      |              |          | ļ        |                        |
| 3C15  | 223                            | 7 1    | 1100      | >        | 4       | 30         | <b>4</b> 8 |          |          | 14                                    | 60       | 3          | 5                 | 84       | 45         | 5    |    | 1       | 18'          | 782               | 1                | 4        | 72       | 2      | 7        | -         | 1    | 5 8          | 926      |          | 160                    |
| WESTER<br>GULF S                                | ₽×₽                            | EVE    | LÒF       | ME       | NT      | C          | OM         | ⇒ ¦A     | NY       | 0                                     | F        | JE         | LA                | WA       | RE         |      | 2  |         |              |                   |                  |          |          |        |          | 1         |      |              |          | 1        |                        |
| 1016  | 223                            | 7      | 1200      |          | 5       | 5 <b>1</b> | 98         |          |          | 25                                    | 14       | 3          | 3                 | 00       | 55         | i    |    | 1       | 18'          | 782               |                  | 4        | 88       | 3      | 7        |           | 1    | 29           | 26       | 5        | 16C                    |
| WESTER<br>GULF D                                | RIN                            | KAF    | 2D        | 1        |         | •          |            |          |          |                                       |          |            |                   |          |            |      | ъ. |         |              | -                 |                  | ų.       |          |        | _        |           |      | 0.0          |          |          | 1                      |
| GULF H  | $1 \downarrow \square \square$ |        | 1100      | 2        | 5       | 06         | 566        |          |          | 23                                    | 20       | 5          |                   |          | 39         |      |    | 1       |              | 782               |                  |          | 62       |        |          |           |      |              | 926      | 1        | 160                    |
| 18 4  | 213                            | 7 1    | 1 50      |          | 2       | 4 7        | 02         |          |          | 6                                     | 41       | 9          | 1                 | 8 2      | 83         |      | •  |         | 9 :          | 391               |                  | 2        | 76       | 7      | 4        |           |      | 64           | 6 3      | 5        | 8 C                    |
| CARL J<br>DANGLA                                | b ⊨ W                          | EST    | -Lúr      | qı       | IN      | СÇ         | RP         | 0 R      | AΤ       | ĘΟ                                    |          |            |                   |          |            |      |    |         |              |                   |                  |          |          |        |          |           |      |              | . • •    |          |                        |
| 1824<br>PIPELI                                  | 223                            | 7 N    | 5 C       | 2 2      | 92      | 8 3<br>1 C | 79<br>000  |          | В        | $\begin{array}{c}1&1\\1&3\end{array}$ | 17<br>23 | 522        | $1\overset{1}{0}$ | 72<br>77 | 03<br>70   |      | 1  | 23      | 9 3<br>3 3 8 | 391<br>398        | 3 :              | 2<br>3 4 | 65<br>16 | 9<br>6 | 4<br>8   | ε         | 3 5  | 64<br>18     | 652      |          | 8 0                    |
| SKELLY  | 01                             | L C    | рмг       |          | ΙΎ      | PÍ         | PÉ         | _        | NE       | S                                     | YS       | rE         | м                 |          |            |      |    |         |              |                   |                  |          |          |        |          |           |      |              | •        |          |                        |
| N G PE  | NRO                            | SE     | INC       |          |         |            | 41         |          |          |                                       |          |            |                   |          |            |      |    |         |              | -                 | 1                |          |          |        |          |           |      |              | •        | 1        |                        |
| WARLIC<br>1A19                                  | 213                            |        | IE B F    | 2<br>Y   |         | 4 3        | 40         |          |          | 4                                     | 340      |            |                   |          |            |      |    |         | 31           | 147               | 1                |          | 31       | 4      | 7        |           |      | 31           | 47       | ,        | 160                    |
| PIPELI  | ÑĒ                             | TC     | FĂL       | •        |         | 43         | 4ŏ         |          |          | 4                                     | 340      | 5          |                   |          |            |      |    |         | 31           | L 4 7<br>L 4 7    |                  | ,        | 31<br>31 | 4      | 7        |           |      | 31           | 47<br>47 | 2        |                        |
| SOUTHE  | ŔŅ                             |        | ON        | Ġ A      | s       | cç         | MP,        |          | Y        | ⊃                                     | ΡΕΙ      | _          | VE                | s        | YS         | т    | ΞM |         |              |                   |                  |          |          |        |          |           |      |              |          |          |                        |
| AZTEC   | QIL                            | AN     | iþ c      | As       | •       |            |            | Ì        |          |                                       |          |            |                   |          |            |      |    |         |              |                   |                  |          |          |        |          |           |      |              |          |          |                        |
| DAURON<br>2Â10                                  | B                              |        | 1         | 1        |         | 17         | 09         |          |          | 9                                     | 369      | 2          |                   | 23       | 4 Ö        | ,    |    | 1       | 81           | 782               |                  | 2        | 11       | 2      | 2        | 2         | 1    | 29           | 26       |          | 160                    |
| FAMARI  |                                |        |           |          | •       |            | 1          |          |          |                                       |          |            |                   |          |            |      |    |         |              |                   |                  |          |          |        | •        |           |      |              |          |          |                        |
| HILLS   | 213                            | 1      |           | · ·      |         | 1 5        | 28         |          |          | 1 1                                   | 04       | ,          |                   | 6        | <b>R</b> 1 |      |    | -1      | 1 4 0        | 186               |                  | 1        | 45       | 6      | 7        |           |      | 96           | Q A      |          | 120                    |
| PIPELI  | ÑĒ                             |        | TAL       | •        | Ş       | 3 ž        | 28         |          |          | 2 Q                                   | 410      | 5          |                   | 2 8      | 81<br>21   |      |    | 123     | \$ 2 8       | 286<br>368        |                  | 3        | 45<br>56 | 8      | 9        |           | 2    | ŹĞ           | 94<br>20 |          |                        |
| WARREN  | PE                             | ŢRĊ    | LEU       | M        | ćó      | MF         | AN         | -        | PI       | ΡE                                    |          | JE         | s                 | YS       | ΤE         | м    |    |         |              |                   |                  |          |          |        |          |           |      |              |          |          |                        |
| GULF O  |                                | COF    |           |          |         | -          |            |          |          |                                       |          |            |                   |          |            | Ì    |    | ,       | i.           |                   |                  |          |          |        |          |           |      |              |          |          |                        |
| GULF O<br>R E CO<br>MC COR                      | LÉ                             | A<br>K |           |          |         | •          |            |          |          |                                       |          |            |                   |          |            |      |    |         |              |                   |                  |          |          |        |          | * ;       |      |              |          |          |                        |
| PIPELI  | 213                            | 7 N    |           |          |         | 35         | 93         |          | 20       | 3                                     | 59       |            |                   |          |            |      |    |         | 40           | )10<br>)10<br>389 |                  | 3 8 9    | 40       | 1      | 8        |           |      | 40           | 1010     |          | 1,60                   |
| EOSE +  | ÔTA                            |        | "  ~ L    | -  2     | 51      | 81         | 51         |          | 20       | 95                                    | ŏźč      | 5          | 4 2               | 31       | 21         |      | 5  | 4 6     | 563          | 389               | 28               | 389      | 3 š      | 1      | ŏ        | 17        | 0 '  | 2 Z          | 98       |          | 1                      |
| CROSBY  | DE                             | VON    |           |          | ÕÓ      | L ]        | -          |          |          |                                       |          |            |                   |          |            |      |    |         |              |                   |                  |          |          |        | 2        |           |      |              |          | 1        |                        |
| EL PAS  | 0 NI                           |        | RAL       |          | ÁS      | خم         |            |          | INI      | <b>-</b> ·                            | SYS      |            | ± м               |          |            |      |    |         |              |                   |                  |          | ¢        |        |          |           |      |              | 1        |          |                        |
| 医尿 有限的  |                                | ÷      |           |          |         | F          |            | -        | 1 1 1 1  | -                                     | - · ·    | ·   '      | - 1 <b>*</b> 1    |          |            |      |    |         |              |                   |                  |          |          |        |          |           |      |              |          | - 1      |                        |
| ANDERS  |                                |        | СНА       | RD       |         |            |            |          | بر<br>بر |                                       |          |            |                   |          |            |      |    |         |              |                   |                  |          |          |        |          |           |      |              |          |          | i e e e<br>Se          |
| <u>an an a</u> |                                |        |           | <u> </u> |         |            |            |          |          |                                       |          | _ <u>!</u> |                   |          |            |      |    | <u></u> |              | ·····             | • · · ·          |          | <u>.</u> |        |          |           |      |              |          | <u> </u> |                        |

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| CROSBY DEV   | 1            |            | PO            | QL           |           | EL          | PAS             | 0                 |                   | <u>s</u><br>v | STE           | M          |            | TO             |        |                   |                | MA     | YEAF            | 1:1        | 9            | 60                |          | <u>page</u><br>Af |     |            | 7              | ) AC       | REAGE OF       |
|--|--------------|------------|---------------|--------------|-----------|-------------|-----------------|-------------------|-------------------|---------------|---------------|------------|------------|----------------|--------|-------------------|----------------|--------|-----------------|------------|--------------|-------------------|----------|-------------------|-----|------------|----------------|------------|----------------|
| DESCRIPTION  | STUTUS AC    | REAGE      | BEGINNING     | NET A        | LLOWAS    |             |                 |                   |                   |               | OVER/U        | CER I      | RODU       | CTION ±        | CURREN | T ALLO            |                |        | ENDING N        | ET A       | LLOWA        | 8LE -             | <u> </u> | NEW J             |     |            | ۲              | OTLI       | VERABILI       |
| 1K282537   |              | FE<br>00   | Þ             | 30           | 16        | 2           | 3               | 5 2               | 2 8               | 2             |               | 5          | 1 2        | O EX           | E      | 6<br>5 6 0        | 59             | 5      | Ē               | 50         | 9 '          | 75                |          | 7                 | 70  | 9          | 57             | ,          | 16             |
| COLL<br>1H292537   | NI           | 0 o        |               | 57           | 18        | 2           |                 | 68                |                   | ,             | 5             | 39         | 71         | 7 EX           | £      | 560               | 29             | 5      | 1               | . 6        | 3 '          | 78                |          | 7                 | 0   | 9          | 57             | ·          | 16             |
| EL PASO NA<br>GREGORY FE<br>3J332537<br>4K332537<br>X2C332537  | h l          | 0 0        | $\frac{1}{3}$ | 48           | 47<br>18  | 67          | 1 1 5           | 250               | 63<br>84          | 290           | 131           | 3 5<br>9   | 84<br>33   | 4<br>8<br>6 FX | - 34,6 | 560               | 09<br>09<br>09 | 55     | 1 9<br>3 7<br>6 | 15         | 94           | 3933              |          | 1.1.1             | 70  | 999        | 57<br>57<br>57 |            | 16<br>16<br>16 |
| GULE OLL C   | DRP          | о о<br>в   |               | 26           | 77        | 2           | 15              | 2                 | 12                | ېغ<br>د       | 12            | ; <b>ว</b> | 9 5        | σξχ            |        | 000               | י פָ נ<br>י    | ې<br>۲ | C               | • <b>9</b> | 8.           | οı                |          | ,                 |     | у.         | Ş Ç            |            |                |
| ARNOTT RAM<br>3A322537<br>G W SHAHAN<br>2B332537               | 1 1          | 0 0        |               | 93<br>24     |           |             | 6<br>12         | 9                 |                   |               |               | 3          |            | 6<br>7 εχ      |        |                   | 59.<br>59.     | ·      |                 |            | 58           | 31<br>32          | _        |                   |     |            | 57<br>57       |            | 16<br>16       |
| JAL OIL CO   | · ·          | 1. T       |               | <b>K</b> j 4 |           | J           |                 | r 4               | ΥĻ                |               | ur ∪          | , e        |            | • ር.አ          |        | , 0 (             |                |        | - <b>-</b>      |            | - <b>-</b> • | - ~               |          |                   | -   | -          | - 1            |            | - •            |
| GUTMAN D<br>11292537   | 1 1          |            | 2             | S S          | <b>61</b> | 3           | 1               | 88                | 80                | 5             | i ,           | 3          | 80         | 8              | 5      | 660               | 2 <u>9</u> 1   | 5      | 5               | 9          | 9 (          | 23                |          | 7                 | 0   | <u>9</u> . | 57             |            | 16             |
| PAN AMERIC<br>C M FARNSW<br>6A 42637<br>7C 42637               |              | 0 0        |               | 9 9<br>5 0   | 45<br>84  | 8<br>N<br>N | 4               | 3 C<br>5 4        | ) 9<br>4 3        | 83            | 5             | 6          | 35<br>58   | 4<br>5 EX      | E) E)  | 60                | 29             | 5      | 11              | 21         | 45           | 19<br>10          |          | 7<br>7            | 00  | 9<br>9     | 57<br>57       |            | 16<br>16       |
| PHILLIPS P<br>COPPER<br>1J282537                               | 1 1 .        |            | {             | 80           | 68        | 1           | 7               | 58                | 33                | 4             |               | 4          | 8 <b>4</b> | 7              | 5      | 660               | 09!            | 5      | 6               | 0          | 94           | 12                |          | ์<br>7            | 0   | 9          | 5 7            |            | 16             |
| SINCLAIR O<br>J T LANEHA                                       |              | G A<br>U N | S<br>∤T       | •.           | •         |             |                 | - ,-<br>-         | • •               |               |               | <u>.</u>   |            |                | •      |                   | ÷              |        |                 |            | •••          | •                 |          | . •               |     | •          | • •            | -<br>-     | 16             |
|  | <b>I I I</b> |            |               | 30           | οļ        | ש<br>י      |                 | 13                | 5.5               | <u>د</u><br>ج | 3             | Ų          | r 3        | 4 EX           | 5      | ) O (             | 9!             | 2      | Ę               | 9          | 3.6          | л Т<br>Т          |          | (                 | 0   | у:         | 57             |            | TO             |
| SUN OIL CO<br>B T LANEHA<br>3P202537<br>PIPELINE<br>POOL TOTAL |              |            | 10            | 5435         | 2955      | 1<br>5<br>5 | 9<br>8 5<br>8 5 | 5 1<br>9 8<br>9 8 | L 7<br>3 6<br>3 6 | 066           | 4<br>19<br>19 | 4 (        | 2 8        | 9 EX<br>9<br>9 | 777    | 6 (<br>9 2<br>9 2 | 933            | 5555   | 9 2<br>9 2      | 533        | 133          | 4 6<br>2 4<br>2 4 |          | 9 2<br>9 2        | 022 | 9 !<br>4 4 | 57<br>41<br>41 |            | 16             |
| EUMONT POO   |              | ÷          | ÷             |              | ) '<br>   |             |                 | •                 |                   |               |               |            | •          |                |        |                   |                |        |                 |            | а<br>1       |                   |          |                   |     |            | •              | ľ          |                |
|  | TUR          | 1          | ĢÁS           | 5,1          | ₽́Į       | PΕ          | LINE            | S                 | 5 Y               | s             | TEM           | 1          |            |                | :      |                   |                |        |                 |            |              |                   |          |                   |     |            |                |            |                |
| AIKMAN CLA<br>CURRIE<br>11 72137                               |              | E<br>0 0   |               | ,<br>76      | 5 7       | 1           |                 | 4 9               | 90                | 8             | 7             | 1.         | 56         | 3              |        | 5 7               | 77             | 4      | 7               | 7          | 4 3          | 37                |          |                   | 7   | 9 9        | 9 o            |            | 16             |
| AMERADA PE   | TRDI<br>GAB  | - E        | •             | •            | •         |             |                 |                   |                   |               |               |            | . –        |                |        | ат.               |                |        |                 |            |              |                   |          |                   | -   |            | _ 12 - 4       |            | 1              |
| STATE WE A   | N1 (         | · I        |               | 36           | 61<br>93  | · 1         |                 | 7 E<br>9 2        | 34                |               |               |            |            | O EX           |        |                   | 774            | 1 I I  |                 |            |              | 76<br>76          |          |                   |     |            | 90             | 1          | 160            |
| 20122135<br>STATE WE B<br>3F 12135<br>STATE WE E<br>1K132135   |              | 74         | 1             | L 4          |           | ÷           |                 | 57                | 77                | 6             |               | 8 8        | 37         | 1              |        |                   | 272            | 2      |                 | 3          | 14           | 3                 |          |                   | 5   | 9 1        | Ļ 3            |            | 111            |
| STATE WE E<br>1K132135<br>STATE WE F<br>1N 12135               | NI (         |            |               | 24'<br>7'    | 74<br>34  | î . (       | 2               | 751               |                   | 1             | 1             | - ·        |            | 6 EX           | 1      |                   | 54<br>774      | · /    |                 |            | 7 ¢<br>6 7   | 51<br>72          | _        | 1                 |     |            | 31             |            | 320<br>160     |
| 5TATE WE G   |              |            | 1 2           | 27           | ,         | 1           |                 | 5 2               | 23                | 0             | 12            | Ş e        | 54         | 7              |        | 57                | 774            | 4      | 12              | 8          | 4 2          | 21                |          |                   |     |            | 20             |            | 160            |
|  | NL           | 5 O        | e             | 50           | 5 G (     | 0           |                 | 5 5               | 23                | 9             | 5             | 4:         | 33         | 1              |        | 86                | 56C            |        | 6               | 5          | 99           | 1                 |          | 1                 | 1   | 98         | 3 5            |            | 240            |
| BELL OIL C<br>SINCLAIR S<br>19322036                           |              |            | 1             | L.8.         | 37        | <u>5</u> _  | <u></u>         |                   | 2.6               | 5             |               | 8.0        | 5.4        | OF             |        | 57                | 774            |        | 1               | 2          | 8.6          | <u>i.</u> 6       | _ _      |                   | _7_ | 9 9        | 20             | <u> </u> ' | 160            |

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| DESCRIPTION  |   |                            | FEBRUARY      |   | N.A.              | YEAR: 1960   | APR.   | ACREAGE OR                            |
|--|---|----------------------------|---------------|---|-------------------|--|--|---------------------------------------|
|  | STATUS ACREAGE<br>FACTOR  | BEGINNING NET ALLOWABLE 1: | HE BRODUCTION | OVER/UNDER PRODUCTION ±                   | CURRENT ALLOWABLE | ENDING NET ALLOWABLE   | NEW ALLOCATION                                   | DELIVERABILITY                        |
| CHARM OIL  | co  |                            |               |   |                   |  |  |                                       |
| SUPERIOR S   | ΠΑΓΕ  | 5192                       | 422           | 4770                                      | 2887              | 7657   | 3995   | 80                                    |
| WILSON ST<br>1A112135  | N100  | 4698-                      | 2046          | 6744EX                                    | 5774              | 970-   | 7990   | 160                                   |
| CONTINENTA   | L bil   |                            |               | ]   |                   |  | ·  |                                       |
| BRITT A 6<br>4L 62037  | FED   | 24275-                     |               | 9024275 <sub>EX</sub>                     | 2887              | 21388-   | 3995   | 80                                    |
| BRITT A 18<br>1C182037   |   | 18976-                     |               | 18976EX                                   | 5774              | 13202-   | 7990   | 160                                   |
| BRITT B 8<br>1C 82037<br>BRITT B 10  | FED<br>N 25<br>FED  | 6120-                      | 31752         | P037872FX                                 | 1443              | 36429-   | 1998   | 40                                    |
| 1M102037<br>3P102037   | N1 25<br>N200   | 1331<br>211-               | 5553<br>7821  | 4 2 2 2 EX<br>8 0 3 2 EX                  | 7217              | 2995<br>3515   | $\begin{array}{r} 9988\\ 15981 \end{array}$      | 200<br>320                            |
| BRITT B 15<br>3L152037<br>8J152037<br>BRITT B 18   | FED<br>N200<br>N100   | 71861<br>8622              | 3529<br>31701 | 68332<br>23079FX                          | $11547 \\ 5774$   | 79879<br>17305-  | $\begin{array}{c}1&5&9&8&1\\&7&9&9&0\end{array}$ | 320<br>160                            |
| BRITT B 18<br>3J182037   |   |                            | 6423          |   |                   |  |  |                                       |
| 3 J 18 2037<br>6 P 18 2037<br>6 P 3 J 18 2037  | N100  | 9871-                      | 6423          | 16294EX                                   | 5774              | 10520-   | 7990   | 160                                   |
| 1E202237   | 20<br>N 75  | 25632                      | 1483          | 24149                                     | 4330              | 28479  | 5993   | 120                                   |
| HAWK B 8 F<br>30 82137<br>Lockhart A   |   | 17713                      |               | 17713                                     | 8660              | 26373  | 11985  | 240                                   |
| LOCKHART A<br>21172137<br>LOCKHART A   | N 75  | 5936-                      | 657           | 6593EX                                    | 4330              | 2263-  | 5993   | 120                                   |
| 1P182136<br>3K182136   | N 97<br>N 47  | 34058 - 10136 -            |               | 34058EX<br>10136EX                        | 5600<br>2714      | 28458-<br>7422-  | 7751<br>3755                                     | 155<br>75                             |
| LOCKHART A<br>1H302136<br>5K302136<br>6F302136   | 30 F<br>N100<br>N 94  | D<br>24665-<br>4090        | 5953          | 246655X<br>55445X<br>2320EX               | 5774              | 18891 - 117 - 11 | 7990<br>7511                                     | 160<br>150                            |
| 6F302136<br>LOCKHART B   | NLOO  | 1221-                      | 1099          |   | 5774              | 3 4 5 4  | 7990   | Īĕŏ                                   |
| 4G 12236<br>6P 12236   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 23017-<br>13556-           |               | 23017EX<br>13556EX                        | 5774<br>5774      | 17243-<br>7782-  | 7990<br>7990                                     | $\begin{array}{c}160\\160\end{array}$ |
| LOCKHART B<br>4H142136<br>5L142136<br>LOCKHART B   | N100<br>N100  | 155634<br>1986             | 24364         | $\begin{array}{r}131270\\1986\end{array}$ | $17321 \\ 5774$   | $148591 \\ 7760$   | $23971 \\ 7990$                                  | 480<br>160                            |
| 3 2 8 2 1 3 6  | 28 F<br>N150<br>N50   | D<br>27176<br>26687-       | 10286         | 16890<br>⊃0271995X                        | 8660<br>2887      | 25550<br>24312-  | $\begin{array}{c}1\\\end{array}$                 | 240                                   |
| MEYERS A 8<br>3M 82136   |   | 92892-                     | ·             | -092892EX                                 | 5774              | 87118-   | 7990   | 160                                   |
| MEYER A 17<br>4K172136   | N150  | 69360-                     |               | 69360EX                                   | 8660              | 60700-   | 11985  | 240                                   |
| MEYER A 18<br>4G182136   | N150  | 1307-                      | 7505          | 8812FX                                    | 8660              | 152-   | 11985  | 240                                   |
| 086768677877         1411313686         058876877877         058877877         05887788778         057374788433         057374788433         057374788433         057374788433         057374788433         0573747884433         0573747884433         05737478877         057374788778877         0573747474747887888         057374747474747887888         057374747474747877877         05737474747474787178877         0573747474747478717887         0573747474747478717877         0573747474747478717877         0573747474747478717877         05737474747478717877         0573747474747871787         0573777         0573777         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747         0573747 | NRA 55  | 70284-<br>83280-           |               | 7 0 2 8 4 EX<br>8 3 2 8 0 EX              | 12990             | 57294-   | $17978 \\ 17978$                                 | 369                                   |
| MÊYÊR Ê<br>40 82136  | 8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8 | 25945-                     |               | 25945 <sub>5</sub> X                      | 5774              | 20171-   | 7990   | 160                                   |
| MEYER 6 9<br>26 92136  | Ň100  | 10326-                     | 3969          | 14295fX                                   | 5774              | 8521-  | 7990   | 100                                   |
| MEYER B 17<br>11172136   | N 50  | 10927-                     |               | 10927FX                                   | 2887              | 8040-  | 3995   | 80                                    |
| MEYER B 18<br>20182136   | NIOO  | 33242-                     | 3608          | 36 8 5 O EX                               | 5774              | 31076-   | 7990   | 160                                   |
| MEYER B 27<br>1E272037   | N100  | 45711-                     |               | 45711FX                                   | 5774              | 39937-   | 7990   | 160                                   |
| MEYER B 28   | A<br>N150<br>N225   | 26292-<br>8574-            |               | 26292FX<br>22137FX                        | 8660<br>12990     | 17632-<br>9147-  | 11985<br>17978                                   | 240                                   |

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· for

| DESCRIPTION  | L        | ACREAGE         |             | 20         |               |                 | TEM<br>FEBR |      |                | Y    |                      |          |      | ·····                |        |        |                | M    | YEAR:       | 4.2        |          | 1     | PAGE  | R             |             |  | 1.             | ACREAG         |
|--|----------|-----------------|-------------|------------|---------------|-----------------|-------------|------|----------------|------|----------------------|----------|------|----------------------|--------|--------|----------------|------|-------------|------------|----------|-------|-------|---------------|-------------|--|----------------|----------------|
|  |          | FACTOR          | BEGINKING B | NETA       | LOWA          | eic ±           | NCF PRO     | DUST | ION            | ( OV | R/UNDE               | RPRO     | DUCT | ION ±                | CURREN | ALL    | OWABL          | E    | I ENDING NE | ALLO       | NABLE    | t.    | NEW A | LOCA          | TION        | <u>.</u>   | - DE           | LIVERAL        |
| EED A3<br>31 32036   | N        | 200             | 1           | 3          | 75            | 6 -             |             | 3 6  | 58             | 5    | 17                   | 74       | 4    | 5 EX                 | 1      | 1      | 54             | 17   |             | 58         | 9        | 5 _   | 1     | 5             | 9           | 81   | _              | 3              |
| EED B 22   |          | 100             |             |            | 4 5           |                 |             |      | 15             |      |                      |          |      |                      | :      |        |                | 7 1. |             |            | 7 :      | ļ.    |       |               |             | 71   | -              | 1              |
| EED B 24<br>26242036<br>ANDERSON   | N<br>A 1 |                 |             | . 5        | 93            | 3               |             |      |                |      | 15                   | 59       | 3    | 3 EX                 |        | 5      | 77             | 74   | 1.          | ò 1        | 5 9      | 9 -   |       | 7             | 9 9         | 90   | ·              | 1              |
| 40112036   | Ň        | 1 F<br>150<br>4 |             | 3          | 79            | 7               | 1           | 1 3  | 30;            | s    | 32                   | 24       | 9    | 5                    |        | 8      | 66             | 50   | 4           | 11         | 5        | 5     | 1     | 1             | 9 8         | 85   | i              | 2              |
| 7G142036   | N        | 400             | 4           | 9          | 26            | 1               | 2           | 9 (  | 57             | в    | 1.9                  | 95       | 8    | 3                    | 2      | 3      | 09             | 94   | . 4         | <u> </u>   | 7 '      | 7     | 3     | 1             | 9 (         | 61   | -              | 6              |
| 2H102036<br>MU EUMON   | N        | iŏo             | 1           | 7          | 22            | 9               |             | 1 2  | 27             | 9    |                      |          | 5    |                      |        |        | 77             |      |             | 17         |          |       |       |               |             | 90   | 1              | 1.             |
| 64G262037<br>651 262037  | NN       | 300             |             |            | 4 2<br>9 3    | 8               | 1           | 03   | 70 ;<br>36 :   | 3    | $151 \\ 11$          | ; 2<br>3 | 8    | 7 EX<br>1 FX<br>8 FX |        | 71     | 3 2<br>5 4     | 21   |             | 2 0<br>2 0 | 4 (      | 6     | 21    | 35            | 91          | $   \begin{array}{c}     7 \\     8 \\     1   \end{array} $ |                | 43             |
| 56L142037<br>57K AND 6   | N<br>9F  | 300<br>Se       | c. 2        | 8          | 33<br>T<br>63 | 6-<br>WP        | . 2.0       | F    | 232            | 3    | 7 C                  | co       | ME   | 31                   | NED    | . 7    | 32             | 21   | 1           | 4 9<br>    |          |       |       |               |             | 7ī   | }              | 4 8            |
| 7K2420371  |          | 400             | 12          |            |               |                 | 3           | 777  | 7.2:           |      | 87                   |          |      |                      |        |        | 09             |      | 11          |            |          |       |       |               |             | 61   |                | 6              |
| 6 1 2 3 2 0 3 7<br>5 9 F 2 4 2 0 3 7   |          | 400             | 7           | 6          | 66            | 7               | 2           | 1 4  | 100            |      | 55                   | 52       | 6 '  | 7                    | 2      | 3      | 09             | 94   | 7           | 8 3        | 6 )      |       | 3     | 1             | 9 (         | 61   |                | 6.             |
| MU PERMI<br>6   142037   |          | 150             | 5           | 1          | 65            | 4               | 5           | 16   | 554            | 4    |                      |          |      |                      |        | 2      | 4 2            | 23   |             | 24         | 2 :      | 3     |       | 2             | 4 ;         | 23   | ;              | 2              |
| ATE A 3<br>1   32037<br>ATE A 6  | Ń        | ĮÓO             | 3           | 8          | 48            | 8               |             |      |                |      | 38                   | 4        | 8 8  | 3                    |        | 5      | 77             | ' 4  | 4           | 4 2        | 6 2      | S     |       | 7             | 9 9         | 9 0  | ,              | 1 (            |
| 1M 61937   | Ņ        | 100             |             | 1          | 63            | 1               | i           | 88   | 342            | 9    | 7                    | 5        | 1:   | l ex                 |        | 5      | 77             | 4    |             | 14         | 3        | 7 -   |       | 7 (           | 9 9         | 9 0  |                | 10             |
| 11 71937   | Ņ        | 5 O             |             | 9          | 5 9           | 2 –             |             | 46   | 583            | 3    | 14                   | 2        | 7!   | 5 FX                 |        |        | 88             |      |             | 13         |          |       |       |               |             | 9 5  | 1              | . 8            |
| 3L 171937<br>5G171937  | 22       |                 | 1           | 26         | 2 2<br>2 7    | 6<br>8          | 4 (         |      | 87             |      | 43<br>16             | 0<br>6   | 13   | 3 EX<br>5 EX         |        | 5<br>5 | 77<br>77       | 4    | 3           | 72<br>29   | 322      | 2 - 2 |       | 7             | 999         | 9 0<br>9 0   |                | 1 e<br>1 e     |
| ATE A 19<br>1-191937   | N        | 2 5             | 1           | 2          | 43            | 1 -             |             |      |                |      | 012                  | 4        | 3:   | ĹΞX                  |        | i      | 44             | 3    | 10          | 2 9        | 88       | 3 -   |       | 1 :           | 9 9         | 9 8  | 1.             | 4              |
| 19999999999999999999999999999999999999   | Ň        | 100             | 1           | 9 :        | 9 9           | 5               | :           | 5 6  | 526            | 5    | 14                   | 3        | 6 9  | Ð                    |        | 5      | 77             | 4    | 20          | с 1        | 4 3      | 3     |       | 7 9           | 9 9         | 9 0  |                | 16             |
| ATE C 30   | Ň        | 200             |             | 8          | 56            | 0               | 5 :         | 59   | 92             | 2    | 17                   | 4        | 32   | 5, EX                | 1      | 1      | 54             | 7    |             | 58         | 8 5      | 5 -   | 1     | 5 :           | 9 8         | 81   | <b>.</b>       | 3:             |
| ATE C 30<br>5C301937<br>ATE D 15   | Ņ        | 9.8             |             | 6 9        | 93            | 1 -             | Ċ           | 58   | 08             | 3    | 13                   | ?        | 39   | ₹<br>FX              |        | 5      | 6 Ș            | 8    | ł           | 3 O        | 8 1      | L -   |       | 78            | 8. 3        | 30   |                | 1              |
| 8 P1 5 21 36<br>ATE F 1  | Ň        | 200             | 1           | 1          | 6 <b>3</b>    | 2 -             | 1 :         | 39   | 61             | -    | 25                   | 5        | 93   | 3 EX                 | 1      | 1      | 54             | 7    | 1 4         | 4 0        | 4 e      | 5 -   | 1     | 5 9           | <b>9</b> 8  | 3 1  |                | 3 2            |
| 10 $121365x 12136$   | ZM       | 200<br>50       | 4           | 4          | 19            | 2 -             | 1           |      |                |      | 44                   | 1        | 92   | 2 FX                 | 1      | 1      | 54             | 7    | 32          | S 6        | 4 5      | 5 -   | 1     | 5 9           | 98          | 31   |                | 32             |
| ATE J 2<br>9 G 22236   | N        | 300             | 5           | 7 .        | 75            | 8 -             |             | 3 5  | 88             | 5    | 61                   | З        | 4 3  | 3 EX                 | 1      | 7 :    | 32             | 1    | 4 -         | 40         | 2 2      | 2 -   | 2     | 3 !           | 9 7         | 71   |                | 4 8            |
| LPORT OIL<br>B MCQUAT<br>1E122136  | ÷        | OR              |             |            |               |                 |             |      |                |      |                      |          |      |                      |        |        |                |      |             |            |          |       |       |               |             |  |                | 1              |
| 1E122136   | ' Ñ      | 00              | 2           | 88         | 36            | 2 -             | 2           | 5 2  | 4 7            | ·    | 31                   | 1        | 0 9  | εx.                  |        | 5 '    | 77             | 4    | 2 5         | 53         | 3 5      | 5     |       | 7 9           | <b>9</b> 9  | 9 0  |                | 16             |
| LIOTT INC<br>LIOTT FEE<br>2J262036   | 3.1      |                 |             |            | •             |                 |             |      |                | 1    |                      |          |      |                      |        |        |                |      |             |            |          |       |       |               |             |  | 1              | 1              |
| 2 - 2 6 2 0 3 6  | Ň        | 00              | 2           | 4 :        | 38            | 4               | ε           | 3 4  | 02             | ?    | 15                   | 9        | 8 2  | 3                    |        | 5 '    | 77             | 4    | 2 :         | L 7        | 56       | 5     |       | 79            | 9 9         | 9 0  |                | 16             |
| OWNLEE NAT   | r k      | AS              |             |            | •             |                 |             |      |                |      |                      |          |      |                      |        |        |                |      |             |            |          |       |       |               |             |  |                | •              |
| 10252136<br>ELL STATE  | ци<br>Е  | 00              |             |            | 5 6           | ·               |             |      |                |      | 38                   |          |      | ° 1                  |        |        | 77             | - 1  |             | 24         |          |       |       | 7.9           | <b>ງ</b> ່9 | 0  |                | 16             |
| L-2<br>FE6<br>TC0<br>CE2<br>FE6<br>CC2<br>CC2<br>CC2<br>CC2<br>CC2<br>CC2<br>CC2<br>CC | ZZ<br>ZZ | 47              | 3           | 6 E<br>5 C |               | 7<br>2 -<br>9 - |             | 1734 | 12<br>99<br>88 |      | 2<br>40<br>43        | 61       | 95   | ) EX<br>EX           |        | 85     | 48<br>77<br>77 | 7    | 3           | 5743       | 92<br>87 | -     | 1     | $\frac{1}{7}$ | 74          | 4 6 0 0  | Chinese Street | 23             |
| SHELL  | ŅĮ       | 00              |             |            | •             |                 |             |      |                | 1    |                      |          |      |                      |        |        |                |      |             |            |          | 1     |       |               |             | · 1  | 1.2            | 16             |
| 0H362036   | NI<br>NI | 44              | 58          | 5 5        | 13            | 3<br>0-<br>1-   | 2           | 7    | 73             | Þ    | 55<br>88<br>73<br>69 | 3        | 3544 | FX                   |        | 5      | 3177           | 4    | 6865        | 3755       | 47<br>89 |       | 1     | 15            | 5 C         | 6000   | and the second | 23<br>16<br>16 |

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| EUMONT POOL                            | i                       | PASO SYS                |   | YEAR: 1960   | PAGE: 10<br>APIR , ACREAGE OR |
|--|-------------------------|-------------------------|---|--|-------------------------------|
| DESCRIPTION                            | TATUS ACREAGE<br>FACTOR | BEGINNING NET ALLOWABLE | HEF PPODUCTION OVEP/UNDER PRODUCTION :      | MAF?   | NEW ALLOCATION DELIVERABILITY |
|  |                         |                         |   |  |                               |
| GULF OIL CO<br>H LEONARD L<br>1G242136 | N200                    | 44075                   | 9744 34331                                  | 11547 45878  | 15981 320                     |
| MATTERN C<br>3L182137                  |                         | 1                       |   |  | 11666 234                     |
| W A RAMSAY                             | N1146                   | 147-                    | 5460 5607 X                                 |  | 1 - 0 - 0 - 0                 |
| 17J272136                              | N400                    | 16224-                  | 7164 23388 FX                               | 23094 294-   | 31961 640                     |
| HUMBLE OIL<br>ADKINS                   |                         | со                      |   |  | 13983 280                     |
| 4L102136<br>AGGIES                     | N175                    | 55813-                  | 1473 57286FX                                | 10104 47182-   | 20100                         |
| 4F312037<br>7B312037                   | NR 00<br>NI 00          | 35599-<br>33669-        | 1823 37422FX<br>82320 2115989 X             | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 15981 320<br>7990 160         |
| EUMONT GAS<br>1J 42037                 | U 1                     |                         | 16295                                       |  | 640                           |
| 2L 42037<br>1J2L 42037                 | N400                    | 6564-                   | 16295<br>11283<br>27578 341425X             | 23094 11048-   | 31961 640                     |
| EUMONT GAS                             | N200                    | 22757-                  | 1532 24289 FX                               | 11547 12742-   | 15981 320                     |
| EUMONT GAS                             | U 3<br>N100             | 1.3827-                 | 13827EX                                     | 5774 8053-   | 7990 160                      |
| EUMONT GAS<br>1N252036                 | U 4<br>N1 50            | 37761                   | 6453 31308                                  | 8660 39968   | 11985 240                     |
| J L GREENWO<br>51 92237                | 00200                   | 9627                    | 9765 138 FX                                 | 11547 11409  | 15981 320                     |
| J D KNOX<br>1 J 1 0 2 1 3 6            | N200                    | 43814-                  | 910 44724FX                                 | 11547 33177-   | 15981 320                     |
| STATE B<br>1E292136<br>STATE F         | N 50                    | 10652-                  | 106525X                                     | 2887 7765-   | 3995 80                       |
|  | NIOOSTAT                | 26436-<br>E G           | 1998 28434 X                                | 5774 22660-  | 7990 160                      |
| 9G232136<br>STATE G                    | N400                    | 56277                   | 31672 24605                                 | 23094 47699  | 31961 640                     |
| 2P262136<br>4G262136                   | N200                    | 59360<br>8296           | 1 1 6 0 7 4 7 7 5 3<br>1 4 8 7 4 6 5 7 8 EX | 11547<br>11547<br>4969                               | 15981 320<br>15981 320        |
| STATE M<br>1J182237<br>4C192237        | N200<br>N96             | 66760<br>5947           | 9992 56768<br>12770 68235X                  | 11547<br>5543<br>1280-                               | 15981 32C<br>7671 154         |
|  | 10 9 0                  | 5947                    |   | 1200-  | (0(1 1.24                     |
| KELLY J M<br>CONT STATE<br>10 12136    | NILOO                   | 17414-                  | 9369 267835X                                | 5774 21009-  | 7990 160                      |
| HUSTON                                 | N100                    | 6644-                   | 4584 11228EX                                | 5774 5454-   | 7990 160                      |
|  | ATE                     | 19070-                  | 15966 35036FX                               | 14434 20602-   | 19976 400                     |
|  | T B                     | 36467                   | 4360 32107                                  | 5774 37881   | 7990 160                      |
| LATE OIL CO                            |                         |                         |   |  |                               |
| RECTOR<br>1G312136                     |                         | 145985-                 | P145985EX                                   | 2887 143098-   | 3995 80                       |
| ROSS L. MAL                            | ONE                     | JR. EX. OF              | EST. F. J. DANG                             | LADE   |                               |
| ALEXANDER<br>1E 72137                  | N 98                    | 12273                   | 12255 18                                    | 5658 5676  | 7830 157                      |
| B CURRIE Q<br>10 62137                 | N100                    | 96217                   | 3591 92626                                  | 5774 98400   | 7990 160                      |
| WOOD STATE                             | i Luir                  | NG COMPAN               |   |  |                               |
|  | Ñ 50                    | 14288-                  | 9230 23518EX                                | 2887 20631-  | 3995 80                       |
| PAN AMERICA                            | N                       |                         |   |  |                               |
| · · · · · · · · · · · · · · · · · · ·  |                         | <u> </u>                |   | <u> </u>   |                               |

| DESCRIPTION                                  | STATES ACREAGE         |                           | TEM CTD<br>FEBRUARY                    | YEAR: 1960<br>MAR.                       | PAGE: 11<br>APR. | ACREAGE OR    |
|--|------------------------|---------------------------|--|--|------------------|---------------|
| Description                                  | FACTOR                 | BEGINNING NET ALLOWABLE ± | MCF PRODUCTION OVER/UNDER PRODUCTION ± | CURRENT ALLOWABLE ENDING NET ALLOWABLE ± | NEW ALLOCATION   | DELIVERABILIT |
| TATE 1<br>20222136                           | N100                   | 49537-                    | 654 <b>2050191</b> EX                  | 5774 44417-                              | 7990             | 160           |
| LVES B<br>1F 82137                           | E INC                  | 5023-                     | 1 5 1 2 2 2 0 1 4 5 EX                 | 5774 14371-                              | 7990             | 160           |
| ARSHALL 1<br>11132136                        | NIOO                   | 467-                      | 5493 5960EX                            | 5774 186-                                | 7990             | 160           |
| ATTERN<br>7N 72237<br>ARLICK QU              | NLOO                   | 6225-                     | 24629 30854EX                          | 5774 25080-                              | 7990             | 16            |
| 1A192137                                     |                        | 4494                      | 7560 3066EX                            | 5774 2708                                | 7990             | 16            |
| HILLIPS P<br>ONUMENT                         | EŢ ĊO                  |                           |  |  | -                | 1 - N         |
| 1H121936                                     | N1 50                  | 2061                      | 9223 7162EX                            | 8660 1498                                | 11985            | 24            |
| ODMAN E G<br>E LEE                           |                        |                           |  |  |                  |               |
| 4F202137                                     | N150                   | 8765                      | 14934 6169FX                           | 8660 2491                                | 11985            | 24            |
| CHERMERHO                                    |                        |                           |  |  | 7005             | 8             |
| 1G122136<br>URRIE<br>1V 52137                | N 50<br>N 200          | 20339-                    | 60692026408EX<br>13737 108833          | 2887 23521-<br>11547 120380              | 3995<br>15981    | ° 32          |
| 1V 52137<br>USTON<br>1K211937                | NROO                   | 122570<br>15848-          | 13737 108833<br>4398 20246EX           | 11547 120580                             | 15981            | 32            |
|  |                        | 19040-                    |  | 11341 0033-                              | 13901            | <b>,</b>      |
| EV STATE<br>1G202136<br>OSTER                | NZOO                   | 52580-                    | 17502 70082EX                          | 11547 58535-                             | 15981            | 32            |
| 20341936<br>TATE                             | N100                   | 20168-                    | 5565 25733EX                           | 5774 19959-                              | 7990             | 16            |
| 1E 71937                                     | NI O O                 | 27646-                    | 7752 35398EX                           | 5774 29624 -                             | 7990             | 16            |
| 1P351936<br>2A122135                         | <u>й</u><br>100<br>100 | 54446-<br>12964           | 53180059764EX<br>4227 8737             | 5774 53990-<br>5774 14511                | 7990<br>7990     | 16<br>16      |
| 1 = 3 6 1 9 3 6                              | N LOO                  | 25438-                    | 6091 31529EX                           | 5774 25755-                              | 7990             | 16            |
| 1A241936<br>2H242135                         | N 50<br>N 25           | 16264 - 45914 -           | 6997 16264EX<br>52911EX                | 2887 <u>13377-</u><br>7217 <u>45694-</u> | 3995<br>9988     | 20            |
| TATE H<br>4 1 1 3 2 1 3 5<br>FATE L          | N200                   | 25170-                    | 10419 35589EX                          | 11547 24042-                             | 15981            | 32            |
| 2× 12135                                     | NIOO                   | 9700-                     | 4239 13939EX                           | 5774 8165-                               | 7990             | 16            |
| 4P 12135                                     | N197                   | 41530-                    | 17013 58543EX                          | 11374 47169-                             | 15741            | 31            |
| NCLAIR O<br>KINSE C<br>5H 92136              | IL GA                  |                           |  |  |                  |               |
| 90 92136                                     | NLOO<br>NLOO<br>UNIT   | 7704<br>45337-            | 1 1 0 6 2<br>4 1 2 9 0 4 9 4 6 6 EX    | 5774 2416<br>5774 43692-                 | 7990<br>7990     | 16            |
| RBER GAS<br>1E 82037<br>4N252136             | N200                   | 87758-                    | 7952 95710EX                           | 11547 84163-                             | 15981            | 32            |
| PBYRD  | Ň100                   | 38005-                    | 4803 42808EX                           | 5774 37034-                              | 7990             | 116           |
| 70112036                                     | N200                   | 34602-                    | 7460 42062EX                           | 11547 30515-                             | 15981            | 32            |
| E Y MAVE<br>2K351936<br>1LLIPS J<br>6L311937 | N 50                   | 54848-                    | 3725058573EX                           | 2887 55686-                              | 3995             | 8             |
| 64311937                                     | NLOO                   | 34412-                    | 1825 36237EX                           | 5774 30463-                              | 7990             | 16            |

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Salar and the second here and

| EUMONT POO  |          | EL               | PAS       | 0          | SY         | STEM  |        | <u>1.0</u> |      |          |       |                |      |                |            | YEAR      | :19        | 60                                    | ) <u>PA</u>   | GE:<br>APR | 1              | 2        |                             |
|---|----------|------------------|-----------|------------|------------|-------|--------|------------|------|----------|-------|----------------|------|----------------|------------|-----------|------------|---------------------------------------|---------------|------------|----------------|----------|-----------------------------|
| DESCRIPTION   | STATUS A | CREAGE<br>FACTOR | BEGINNING |            |            | FEB   |        |            |      |          |       |                |      |                |            | IAR.      |            |                                       |               | EW ALLOCA  |                | 0        | ACREAGE OR<br>ELIVERABILITY |
|   | ┼──╌┼╴   |                  | BEGINNING | LT ALL     | OWABLE     | - NCF | PRODU  | CTION      |      | ER/UNDE  | R PRO | DUCTION        | - 27 | CURRENT ALLOWA | BLE        | ENDING NE | TALLO      | WABLE                                 | <u> </u>      | LW ALLOUA  |                |          |                             |
| J R PHILLI<br>5E311937                                  | PS<br>N1 | B<br>0 o         | 2         | 33         | 318        | ~     | 3      | 47         | 8    | 26       | 57    | 96             | EX   | 57             | 74         | 2         | 10         | 22                                    | 2 (           | 7          | 9 9            | 0        | 160                         |
| STATE 407<br>2F 22135                                   | N        | 74               | 7         | 37         | 49         |       | 25     | 92         | 76   | 0 9 9    | 96    | 76             | εx   | 4 2            | 7 S        | 9         | 5 4        | 04                                    |               | 5          | 91             | 3        | 118                         |
| SKELLY QIL<br>CHRISTMAS                                 | c p      | ·<br>·           |           |            |            |       |        |            |      |          |       | ÷              |      | •              |            |           |            |                                       |               |            |                |          | 0.0                         |
| 1M251936<br>Mónstate                                    |          | 50               |           |            | 567        |       | -      | 01         |      |          |       |                |      | 28             | •          |           |            | 97                                    | ļ             |            | 99             |          | 80                          |
| 21131936  |          | 00               |           | -          | 43         |       |        | 85         |      |          |       |                |      | 57             | 74         | 4         | 82         | 2 3                                   | <b>i</b> [ 10 | 7          | 99             | <u> </u> | 160                         |
| SOUTHERN P<br>McQuatters<br>1J112136                    | 1 1      | 75               |           |            | 916        | DRAT  |        | Ñ (        | 1    |          |       |                |      | 43             | 70         | 7         | 1 7        | 79                                    |               | 5          | 99             | 2        | 120                         |
| STANDARD 0  |          | EX               | - '       | 5 9        | , T O      | -     |        | 19.        |      |          | » т   |                |      | . 4.5          | 50         |           | <u>т</u> , | , , , , , , , , , , , , , , , , , , , |               |            | <i>,</i>       |          | ~ ~                         |
| MEREDITH<br>14192136                                    |          | ·                |           | 3 5        | 580        | _     | 2      | 37:        | 5    | 4 5      | 59    | 521            | EX   | 57             | 74         | 4         | 01         | 78                                    | _             | 7          | 9.9            | ó        | 120                         |
| STATE 135<br>1M351937                                   | N1       | 00               | 1         | 9 6        | 501        |       | 2      | 620        | 5    | 16       | 5 9   | 8 i            |      | 57             | 74         | 2         | 27         | 55                                    |               | 7          | 99             | 0        | 160                         |
| SUN OIL CO  |          |                  | - 1<br>-  | -          |            |       | ÷      |            |      |          |       |                |      |                |            |           |            | ••<br>••                              |               |            |                |          | •                           |
| 1T 32136<br>60 32136                                    | NH<br>NH | 000              | 2<br>1    | 9.6<br>7.1 | 6 2<br>3 1 | -     | 5<br>1 | 68<br>540  | 5    | 35<br>18 | 53    | 46             | X    | 57<br>57       | 74<br>74   | 2         | 9 5<br>2 8 | 7297                                  | =             | 7<br>7     | 991<br>991     | 0        | 160                         |
| SUNRAY MID  |          | ŅΤ               |           |            | •          |       |        |            |      |          | •     | -              |      |                | •          |           | -          | · .                                   |               |            |                |          |                             |
| COOPER<br>3D 72037<br>COOPER A                          | N1       | 00               | ્ર 3      | 79         | 67         | -     | 8      | 210        |      | 46       | 1     | 771            | x    | 57             | 74         | 4         | 04         | 03                                    | -             | 7          | 99             | 0        | 160                         |
| 4H122036  | N1       | 00               | 3         | 53         | 59         | -     | 1      | 984        | ŧ    | 37       | 3     | 13             | X    | 57             | 74         | 3         | 15         | 39                                    |               | 7          | 99             | o        | 160                         |
| A B REEVES<br>20292037                                  |          |                  | 3         | 1 1        | 62         | -     | 5      | 996        | 5    | 37       | 1     | 588            | X    | 57             | 74         | 3         | 13         | 84                                    | -             | 7          | 9.9 (          | ခု       | 160                         |
| STATE 12  |          | ÇO               | ,         |            |            |       |        | 0 - 0      |      | . 7 6    |       |                |      | 0.0            | ~ ~        | 7         |            | 57                                    | •             | 7 (        |                |          | 80                          |
| 1L122135<br>STATE A<br>6A 22036                         |          | 50               |           |            | 15         |       | •      | 829<br>712 |      |          |       | 4 4 E<br>6 7 E |      | 28<br>57       |            |           |            | 57<br>93                              |               |            | 99<br>99       |          | 160                         |
| TEXACO  |          |                  | ~         | Ų Ų        |            |       | -      |            | ·  - | ~ ~      |       |                |      |                |            | ~         | ~ .        |                                       |               |            |                |          |                             |
| RECTOR<br>2P302136<br>3J302136                          | Ň        | 25               |           | 23         | 52<br>24   |       |        | 777        |      |          | 3     | 52             |      | 14             | 43         |           | 37         | 9 5                                   |               | 1 9        | 2 9 1          | 8        | 40                          |
| 40302136  | NN<br>N  | 5075             | 4         | 4 5        | 28         | :     | 7      | 126        |      | 21       | 6     | 546            | X    | 28<br>43       | 8 í<br>3 ó | 4         | 7873       | 14<br>24                              | _             | 5          | 99<br>99<br>99 | 3        | 8 0<br>1 2 0                |
| CROSAY  | AND      | · 0              | · · ·     |            |            |       |        |            |      | •        |       |                |      |                | •          |           | ,          |                                       |               |            |                |          |                             |
|   | Ñ<br>6   | 50               | 1         |            | 43         |       |        | 117        | 1    | 17       |       |                | į,   | 28             |            | 2         |            | 13                                    | 1             |            | 99!            |          | 8.9                         |
| 1 M 62237<br>H T MATTER<br>1 72237                      | N<br>N   | 4 6<br>9 8       | 5         |            | 44         | 1     |        | 125        |      |          |       | 69E            |      | 26<br>56       |            | 5         |            | 87<br>71                              |               |            | 57             |          | 74                          |
| NALDEN  |          | 50               |           |            | 29<br>78   | · •   |        |            | Γ    |          |       | 2 9 E<br>7 8 E |      | 28             | •          |           |            | 91                                    |               |            | 330            |          | 157                         |
| 6D152237<br>IDEWATER                                    | OIL      | c                |           | - •        | , •        | Į     |        | • *        |      | Ť        |       |                |      | · · ·          |            |           |            | 2                                     |               |            |                |          |                             |
| COLEMAN 0<br>3A172136                                   | -        | · · · · · · ·    |           | 78         | 93         |       | 5      | 9 8 9      | þ    | 53       | 88    | 8 2 E          | x    | 57             |            | 4         | 81         | 0 8                                   | -             | 7 9        | 990            | 5        | 160                         |
| 3A172136<br>MARSHALL<br>1H132136<br>STATE A<br>4A 82136 | MI       | 00               | •         | 3          | 63         |       | •      | 363        |      |          | · .   |                |      | 69             | 77         | I         | 69         | 77                                    |               | 6 9        | 7.             | 7        | 160                         |
| STATE AC  |          | - 1 I -          |           | -          | 41         |       |        | 104        | 1    | - 1 T    | 1.0   | 4 5 E          | 4    | 57'            | -          |           |            | 71                                    | <b>-</b>      |            | 990            |          | 160                         |
| STATE AF  | N1       |                  | <br>      | 1          | 87         |       | · · ·  | 259        | 1 .  |          |       | 3 2 E          | 1.   | 600            |            |           |            | 22                                    |               |            | 310            |          | 166                         |
| 1C182137  | Ñ        | 71               | 6         | 21         | 87         | 1     |        | 555        | P    | 62       |       | 1 2 E          | x    | 409            | <u>, 9</u> | 58        | 56         | 4 3                                   | -1            | 56         | 57:            | 3        | 113                         |

| DESCRIPT   |                     |                | EL<br>ACREAGE<br>FACTOR |        |         |         |            | TEM<br>FEBR | U/         | A FR Y   |  |            |            |     | AR,        |       | 060        | _ /  | <u>GE:</u><br>\ PF | २.       |            | ACREAGE |
|--|---------------------|----------------|-------------------------|--------|---------|---------|------------|-------------|------------|----------|--|------------|------------|-----|------------|-------|------------|------|--------------------|----------|------------|---------|
|  |                     |                |                         | BEGINN | ING NET | r ALLOW | ABLE ±     |             |            |          | OVER/UNDER PRODUCTION  |            | ENT ALLOW  |     |            |       | WABLE ±    |      | EW ALLO            |          |            |         |
| 2P16<br>FATE   | 2136<br>H           | N              | 100                     |        | 2:      | S 7 :   | 16-        |             | 10         | > 7 0    | 237861   | X          | 57         | 774 | 1          | . 8 0 | >12        |      | 7                  | 19       | 90         | 10      |
| 2432   |                     | Ń              | 75                      |        | 8       | 3 9 :   | L 6        |             | 94         | \$ 3 2   | 183481   | x          | 4 3        | 330 | 1          | . 4 0 | 018.       | -    | Ę                  | 59       | 9 3        | 12      |
| 'ATE<br>3N16   | 2037                | N              | 100                     |        | 6 9     | 90      | 35-        |             | 22         | 293      | P071328  | xÎx        | 57         | 774 | 6          | 555   | 554.       | _    |                    | 19       | 90         | 1 1 6   |
| ATE<br>3F17  | 1937                | Ň              | 100                     |        | 28      | 330     | 20         |             | 37         | 323      | 24979  |            | 57         | 774 |            | 307   | 53         |      | 7                  | 19       | 90         | 16      |
|  | K                   |                | 100                     |        |         |         | 57-        |             |            | 565      |  |            |            | 774 |            |       | 358.       |      | -                  | 79       | 90         | 16      |
|  |                     | 1              | 100                     |        | 5.      | 540     | <i>, –</i> |             |            | 505      | 50156  | ^          |            |     | -          |       |            |      | ,                  | -        | - 0        | ,       |
| ATE  | A 20                | CO             |                         |        |         |         |            |             |            |          |  |            |            |     |            |       |            |      | -                  |          |            |         |
| 1120<br>PELI   | 2037                |                | 100<br>TAL              | 1 6    | 33      | 328     | 37-        | 126         | 5 7        | 742      | 2788703  | X<br>X 1 2 | 57<br>352  | 774 | 155        | 532   | 55.<br>94. | - 17 | 7<br>7 O 5         | '9<br>58 | 90<br>03   | 16      |
|  |                     |                |                         |        |         |         |            | 1.0         | <u> </u>   | 00       |  |            |            |     | 100        |       |            |      |                    | -        |            |         |
| RMIA   | N BÁ                | si             | Q V                     | IPE    | Ĺ       | NE      | : s        | YSTE        | M          |          |  |            |            |     |            |       |            |      |                    |          |            |         |
| ERAD   | A PE                | TR             | LE                      | ÙМ     |         |         |            |             |            |          |  |            |            |     |            |       |            |      |                    |          |            |         |
| S ADI<br>3M 5  | K   N S<br>2037     | N              | 25                      |        | 28      | 3 9 3   | 52-        | j           |            |          | P028932  | x          | 14         | 43  | 2          | 74    | 89-        | _    | 1                  | . 9      | 98         | · 2     |
| DERS   | 0N T<br>2037        | Ň              | 50                      |        | -       | 555     |            |             |            | 97       | 20059  | ^          |            | 87  |            |       | 46         |      |                    |          | 9 5        | 5       |
| DREW   | S                   |                |                         |        |         |         |            |             |            | ÷ .      |  |            |            |     |            |       |            |      |                    |          |            | 24      |
|  | RD GL               | AS             | 150<br>UN               | Ť      |         | 538     |            |             |            | 44       | 41437  |            |            | 560 |            | 18 L  | 97         |      |                    |          | 85         |         |
| 1F12:<br>E GA  | 2036<br>THE         | ¥ٍŇ            | 200                     |        | 6 5     | 595     | 51         |             | 94         | 70       | 56481  |            | 115        | 47  | 6          | 80    | 28         |      | 15                 | 9        | 81         | 3 2     |
| 1134   | 1936<br>USTO        | N              | LÖÖ                     |        | 39      | 9 2 3   | 57         |             | 5 5        | 582      | 33655  |            | 5 7        | 74  | 3          | 94    | 29         |      | 7                  | 9        | 90         | 16      |
| 38.7   | 2136                |                | 94                      |        | 17      | 775     | 6          | 1           | 1 5        | 255      | 6234   |            | 112        | 201 | 1          | 74    | 35         |      | 15                 | 5        | 01         | 31      |
|  | 2037                | Ň              | L Q O                   | - 5    | 39      | 964     | 2          |             | 73         | 4 5      | 32297  |            | 57         | 74  | 3          | 8 C   | 71         |      | 7                  | '9 ·     | 90         | 16      |
| UGHL   | 2037                | Ň              | 00                      |        | 32      | 239     | 01         |             | 58         | 21       | 26570  |            | 57         | 74  | 3          | 23    | 44         |      | 7                  | 9        | 90         | 16      |
| R PH   |                     | ⊃ş∣            | UŇ<br>200               | ΪŤ     |         | 372     | •          | 9.          |            | 90       | 46938  | -          | 115        |     |            |       | 85         |      |                    |          | 8 1        | 3 2     |
|  | PS                  |                |                         |        |         |         |            |             |            |          |  |            |            | 1   |            |       |            |      |                    |          | ·          |         |
| 2K33   | PS A                | - Ûh           |                         |        |         | 108     |            |             |            | 08       | 36774  |            |            | 60  |            |       | 34         |      |                    |          | 8 5        | 24      |
| 1G31<br>ATE  | Geleri              | NI             | 00                      | · · ·  | 29      | 991     | . 7        |             | 72         | 58       | 22659  |            | 57         | 74  | 2          | 84    | 33         |      |                    |          | 9 0        | 16      |
| 1M181  |                     | лЙ             | 5 0<br>JN 1             |        | ្មា នុ  | 205     | 3          |             | 4          | 78       | 11575  |            | <b>2</b> 8 | 87  | 1          | 44    | 62         |      | 3                  | 9 9      | 95         | 8       |
| 3 K _ 2  | 2036                | Ņ              | 275                     | •      | 96      | 511     | . 4        | 2           | 36         | 09       | 72505  |            | 158        | 77  | 8          | 83    | 82         |      | 21                 | 9 '      | 73         | 4 4     |
| 1830   | 1937                | Ň              | 00                      |        | 34      | 16      | 4          |             | 54         | 02       | 28762  |            | 57         | 74  | <b>ं</b> 3 | 45    | 36         |      | 7                  | 9        | 90         | 16      |
| ATE F  | 1937                | Ň              | 00                      |        | 33      | 564     | 5          |             | 44         | 21       | 29224  |            | 57         | 74  | 3          | 49    | 98         |      | 7                  | 9        | 9 0        | 16      |
| ATE F  | 2237                | Ň              | 50                      |        |         | 173     |            |             |            | 84       | 13150  |            |            | 87  |            |       | 37         |      |                    | 9 9      |            |         |
| ATE  |                     | 1.1            |                         |        |         | •       |            |             |            | 61       | -  |            |            | 74  |            |       | 11         |      |                    |          | · 1        | i fil   |
| ATE  |                     | ΝI             |                         | •      |         | 99      | · ·        |             | ÷.,        |          | 23237  |            |            |     |            |       |            |      |                    |          | 9.0        | _ /16   |
| 3F251<br>5G201   | 936                 |                |                         |        | 38      | 131     | 4          | 10          | 5-4<br>5-5 | 95<br>79 | $\begin{array}{r} 31 & 6 & 3 & 9 \\ 4 & 7 & 3 & 3 \end{array}$ |            | 57<br>115  | 47  | 3          | 74    | 1380       |      | 7<br>1 5           | 99       | 9 0<br>8 1 | 1632    |
| ATE N  | 1036                | E              | 00                      |        |         | 88      |            |             |            | 6 8      | 27913  |            |            | 74  |            |       | 87         |      |                    |          | 9 0        | 1       |
| ATE  | N N                 |                |                         |        |         |         |            |             |            |          |  |            |            | 74  |            |       |            |      |                    |          |            | 116     |
| ATE F  | 2037<br>GAS<br>1936 | 5   1<br>5   1 | 00                      | T      |         | 64      |            |             |            | 24       | 24618  |            |            | -   |            | 03    |            |      |                    |          | 9 0        | 16      |
| 2 0 9 8 6 50 6 0 6 5<br>E3EQE1E1EQQE3E3E3E3E<br>1 2 0 9 8 6 50 6 0 6 5<br>C 0 6 5 | 4936<br>1           | NĂ<br>Î        | 우이                      |        |         | 78      |            |             |            | 43       | 49743  | 1          | 115        | 1.1 |            |       | 90         |      | 15                 | 9 8      | 8 1        | 32      |
| ATE N<br>1N 51<br>ATE U<br>1E 321  | L 9 3 7<br>J GAS    | ΠVI            | 00                      | ·<br>F | 33      | 06      | 5          |             | 58         | 6 2      | 27203  |            | 57         | 74  | 3          | 29    | 77         |      | 7                  | 9 :      | 9 0        | 16      |
| ATE 1<br>1E321   | 1937                | 5 L<br>NI      |                         | 5 a    | 54      | 7 5     | 1          | 10          | 5 6        | 37       | 38114  |            | 86         | 60  | 4          | 67    | 7.4        | [ ·  | 11                 | 9 8      | 8 5        | 24      |

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| UMONT POO                                     | L PER                    | MIAN BASI                       | N SYSTEM<br>FEBRUARY  | СТО                     | M_A               | YEAR: 1960           | PAGE: 14                                 | ACREAGE OR     |
|---|--------------------------|---------------------------------|---|-------------------------|-------------------|----------------------|--|----------------|
| DESCRIPTION                                   | STATES ACREAGE<br>FACTOR | BEGINNING NET ALLOWABLE         | and the second se | OVER/UNDER PRODUCTION + | CURPENT ALLOWABLE | ENDING NET ALLOWABLE | NEW ALLOCATION                           | DELIVERABILITY |
| W A WEIR (<br>4F351936<br>70261936            | 5 NI 75                  | 1 ( T<br>5 0 4 1 2<br>3 0 3 9 0 | 5379<br>3507  | 45033<br>26883          | 10104 5774        | 55137<br>32657       | $\begin{array}{c}13983\\7990\end{array}$ | 280<br>160     |
| WEIR B<br>1G261930                            |                          |                                 | 2 8 5 5   | 30712                   | 5774              | 36485                | 7990                                     | 160            |
| ANDERSON F                                    |                          |                                 |   |                         |                   |                      | 15001                                    | 320            |
| 3G 7203'<br>BRITT A FE                        |                          | 21147                           | 14759   | 6388                    | 11547             | 17935                | 15981                                    |                |
| 2K 62037                                      | N 50                     | 15238                           | 1970  | 13268                   | 2887              | 16155                | 3995                                     | 80             |
| 1N 52037                                      |                          |                                 | 533   | 2569EX                  | 1443              | 1126-                | 1998                                     | 4 C            |
| CRUTCHFIEL                                    |                          | ŅG                              |   |                         |                   |                      | ·  |                |
| 11321937<br>STATE G                           | N 25                     | 8210                            | 939   | 7271                    | 1443              | 8714                 | 1998                                     | 40             |
| 1 2 52136                                     | N150                     | 46951                           | 13901   | 33050                   | 8660              | 41710                | 11985                                    | 240            |
| 10 52136                                      | 5 N100                   | 38632                           | 12029   | 26603                   | 5774              | 32377                | 7990                                     | 160            |
| 5TATE J<br>1H292136                           | 5 N100                   | 8753                            | 6623  | 2130                    | 5774              | 7904                 | 7990                                     | 160            |
| 25 62136                                      | N 93                     | 33977                           | 10883   | 23094                   | 5369              | 28463                | 7431                                     | 150            |
| AZTEC OIL                                     | AND G                    | AS                              |   |                         |                   |                      |  |                |
| 1 P 2 8 1 9 3 7                               | N100                     | 32830                           | 7293  | 25537                   | 5774              | 31311                | 7990                                     | 160            |
| 5TATE UNIT<br>1M352037                        | - ×200                   | 91204                           | 9726  | 81473                   | 11547             | 93025                | 15981                                    | 320            |
| LARM OIL<br>SULF STATE<br>1V 12135            | C0<br>N100               | 33282                           | 17729   | 15553                   | 5774              | 21327                | 7990                                     | 160            |
| CITIES SER                                    | VICE                     | •                               | -   |                         |                   |                      |  |                |
| 10282136                                      |                          | 33032                           | 7107  | 25925                   | 5774              | 31699                | 7990                                     | 160            |
| AUGHL IN E                                    | N100                     | 35006                           | 3049  | 26957                   | 5774              | 32731                | 7990                                     | 160            |
| STATE A0<br>19 22136                          | N 97                     | 31397                           | 8602  | 22795                   | 5600              | 28395                | 7751                                     | 155            |
| атате АТ<br>1М 41937                          | N100                     | 40555                           | 8712  | 31843                   | 5774              | 37617                | 7990                                     | 160            |
| 3K162136                                      | N100                     | 30959                           | 3275  | 27684                   | 5774              | 33458                | 7990                                     | 160            |
| 3A322136                                      | N200                     | 70390                           | 17138   | 53252                   | 11547             | 64799                | 15981                                    | 320            |
| 5N301937                                      | N 98                     | 30093                           | 2217  | 27876                   | 5658              | 33534                | 7830                                     | 157            |
| 21302037                                      | N 75                     | 27495                           | 6590  | 20905                   | 4330              | 25235                | 5993                                     | 120            |
| 5M 22236                                      |                          | 25455                           | 730   | 24725                   | 5774              | 30499                | 7990                                     | 1/00           |
|   |                          |                                 |   |                         |                   |                      | 0  | 7              |
| NDURA STA                                     | TE<br>N100               | 34706                           | 10054   | 24652                   | 5774              | 30426                | 7990                                     | 1160           |
| 4   1 2 2 1 3 5<br>TATE F<br>3 K 1 9 2 1 3 6  | N116                     | 38504                           | 4244  | 34260                   | 6697              | 40957                | 9269                                     | 185            |
|   | ORP                      |                                 |   |                         |                   |                      |  | 1              |
| NDERSON T<br>10 82037<br>48172037<br>R BELL A | N100<br>N150             | 6788<br>54697                   | 3929<br>21526   | 2859<br>33171           | 5774<br>8660      | 8633<br>41831        | 7990<br>11985                            | 160<br>240     |

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| EUMONT POO   |                            | MIAN DACL   | N SYSTEM  | CTD                      | ~  | YEAR:1960                                 | PAGE: 15      |                              |
|--|----------------------------|---|---|--------------------------|--|---|---------------|------------------------------|
| DESCRIPTION  | STATES ACREAGE             |   | FEBRUARY  |                          |  | AR.                                       | APR.          | ACREAGE OR<br>DELIVERABILITY |
| 00 82176   | NI 50                      | BEGINNING NET ALLOWABLE :==================================== | NCF PRODUCTION<br>13910   | OVER/UNDER PRODUCTION ++ | CURPENT ALLOWINLE                        | 39773                                     | 11985         | 240                          |
| 2P 82136<br>R R BELL C<br>4F152136   | NR OO                      | 74793   | 20971   | 53822                    | 11547                                    | 65369                                     | 15981         | 320                          |
| R R BELL F<br>2K362036   | NEOO                       | 78740   | 22214   | 56526                    | 11547                                    | 68073                                     | 15981         | 320                          |
| R R BELL G<br>1P132036   | 1 . (* ~ )                 | 38344   | 4775  | 33569                    | 5774                                     | 39343                                     | 7990          | 160                          |
| R R BELL H<br>1H231936   | ST<br>N125                 | 39025   | 7705  | 31320                    | 7217                                     | 38537                                     | 9988          | 200                          |
| CAMPBELL<br>2K 72136   | N194                       | 57093   | 14602   | 52491                    | 11201                                    | 63692                                     | 15501         | 310                          |
| A L CHRIST<br>5L182237<br>7H182237   | MAB C<br>N 91<br>N100      | 38797<br>38178  | $11482 \\ 9049$   | 27315<br>29129           | 5254<br>5774                             | 32569<br>34903                            | 7271<br>7990  | 148<br>160                   |
| R E COLE B<br>68162237   | NROO                       | 72012   | 7314  | 64698                    | 11547                                    | 76245                                     | 15981         | 320                          |
| H C COLLIN<br>4K142136   | S<br>N200                  | 71,564  | 15381   | 56183                    | 11547                                    | 67730                                     | 15981         | 320                          |
| CULP A<br>3F191937   | N298                       | 92663   | 9767  | 82896                    | 17205                                    | 100101                                    | 23811         | 477                          |
| V V CULP B<br>1J311937   |                            | 33745   | 8743  | 25002                    | 5774                                     | 30776                                     | 7990          | 160                          |
| EUNICE UNI<br>1k192137<br>Evans Stat   | N192                       | 75928   | 24948   | 50980                    | 11085                                    | 62065                                     | 15341         | 307                          |
| EVANS STAT<br>3P 32136<br>S E FELTON   | NL 97                      | 73506   | 21569   | 51937                    | 11374                                    | 63311                                     | 15741         | 315                          |
| 1P282136<br>GRAHAN ST  | NIOO                       | 33112   | 6908  | 26204                    | 5774                                     | 31978                                     | 7990          | 160                          |
| 11241936<br>81251936<br>GRAHAM ST  | 000<br>222<br>000          | 23500<br>60374  | $\begin{smallmatrix}1&1&1&9\\1&2&3&1&2\\1&2&3&1&2\end{smallmatrix}$ | 22381<br>48062           | 5774<br>11547                            | 28155<br>59609                            | 7990<br>15981 | 160<br>320                   |
| GRAHAM ST  | NI 5 0                     | 50145   | 11724   | 38421                    | 8660                                     | 47081                                     | 11985         | 240                          |
| 40361936<br>GRAHAM ST  | N100                       | 33871   | 5711  | 28160                    | 5774                                     | 33934                                     | 7990          | 160                          |
| 10171937   | NI 5 O                     | 51547   | 17171   | 34376                    | 8660                                     | 43036                                     | 11985         | 240                          |
| 7E 52136   | Ň148                       | 51233   | 11241   | 39992                    | 8545                                     | 48537                                     | 11826         | 237                          |
| 16 51937<br>JANDA 8 ST   | NI 50                      | 62572   | 11648   | 50924                    | 8660                                     | 59584                                     | 11985         | 240                          |
| 1J322136<br>JANDA D ST   | ATE                        | 37931   | 5740  | 32191                    | 5774                                     | 37965                                     | 7990          | 160                          |
| 1T 22136   | NEOOL                      | 64335   | 16529   | 47806                    | 11547                                    | 59353                                     | 15981         | 320                          |
| 3J201937<br>KUTTER B   | N100                       | 14066   | 15454   | 1388EX                   | 5774                                     | 4386                                      | 7990          | 160                          |
| 4F281937   | N200<br>TELE               | 74220   | 15540   | 58680                    | 11547                                    | 70227                                     | 15981         | 320                          |
| 1K 91937<br>C H KYTE   | N300                       | 107888  | 18966   | 88922                    | 17321                                    | 106243                                    | 23971         | 480                          |
| 1P 71937<br>LEA STATE  |                            | 33073   | 4556  | 28517                    | 5774                                     | 34291                                     | 7990          | 160                          |
| H LEONARD  | A                          | 41017   | 10947   | 30070                    | 5774                                     | 35844                                     | 7990          | 1/60                         |
| 38222136<br>7M222136   | 00<br>FX<br>00<br>FX<br>00 | 75586<br>36989  | 27996<br>10718  | 47590<br>26271           | $11547 \\ 5774$                          | 59137<br>32045                            | 15981<br>7990 | 1320<br>160                  |
| 98362136<br>FRED LUTHY   | NZOO                       | 69466   | 17667   | 51799                    | 11547                                    | 63346                                     | 15981         | 320                          |
| 20291937<br>H T MATTER   | NN100                      | 36673   | 9301  | 27372                    | 5774                                     | 33146                                     | 7990          | 160                          |
| 10242136<br>H T MATTER   | NEOO                       | 71347   | 21526   | 49821                    | 11547                                    | 61368                                     | 15981         | 320                          |
| P       K       Y       7       7       66       67       7         Y       Y       Y       Y       Y       7       7       66       67       7         Y       Y       Y       Y       Y       7       7       66       67       7       7         Y       Y       Y       Y       Y       7       7       66       67       7       7       7       66       67       7       7       7       66       67       7       7       7       66       67       7       7       7       7       66       67       7       7       7       7       7       7       7       66       67       7< | M100<br>N293               | 1926<br>117178  | 1926<br>15770   | 101408                   | $\begin{array}{r}1533\\16916\end{array}$ | $\begin{array}{r}1533\\118324\end{array}$ | 1533<br>23411 | 160<br>468                   |

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| EUMONT POO                            |         | ) F D            | MIAN          | BAS   | IN SYSTEM                             |                         |   | YEAR:1960            | PAGE: 16         |   |
|---------------------------------------|---------|------------------|---------------|---|---------------------------------------|-------------------------|---|----------------------|------------------|---|
| DESCRIPTION                           | STATES  | CREAGE<br>FACTOR | <u> </u>      |   | FEBRUARY                              | ·                       | and the second se | AR.                  | APR.             | ACREAGE OR<br>DELIVERABILITY                            |
| · · · · · · · · · · · · · · · · · · · |         |                  | BEGINNING NET | ALLOWABLE   | t NCF PRODUCTION                      | OVER/UNDER PRODUCTION : | CURRENT ALLOWABLE   | ENDING NET ALLOWABLE | NEW ALLOCATION   |   |
| H T MATTER                            | 3N E    | .46              |               | 1051  | 1 1 1 0 0                             | 76040                   | 0.4.0.0   | 15770                | 11666            | 234   |
| 1 70 62237                            | 71. NI1 | 4 7              | 51            | 1051  | 17102<br>3977                         | 36949<br>47763          | 8429<br>8487  | 45378<br>56250       | $11666 \\ 11746$ | 234<br>235  |
| H T MATTER                            | RN F    |                  | _             |   |                                       | ·                       |   | 82477                | 23971            | 480   |
| MATHEWS                               |         | 000              |               | . 676   | 36520                                 | 65156                   | 17321   | 86411                |                  |   |
| 2J 62037<br>ORCUTT A                  | ζĹŇĮ    | 00               | 31            | . 564   | 6471                                  | 25093                   | 5774  | 30867                | 7990             | 160   |
| 1N 52136                              |         | 00               | 31            | . 4 9 6   | 6305                                  | 25191                   | 5774  | 30965                | 7990             | 160   |
| IG 52136                              | STAT    | E<br>O O         | 7 5           | 5 4 3   |                                       |                         | 5774  | 31304                | 7990             | 160   |
| ORCUTT C                              |         |                  |               | • • •   | 10013                                 |                         |   |                      |                  |   |
| 5P362036<br>8B 62136                  |         | 00<br>91         | 33            | 583<br>752  | 10822                                 | 22761<br>50022          | 5774  | $28535 \\ 61049$     | 7990<br>15261    | $   \begin{array}{c}     160 \\     305   \end{array} $ |
| ORCUTT D                              |         | 21               |               |   |                                       |                         | -   |                      |                  |   |
| 2G132036<br>0RCUTTE                   |         | <u>p</u> o       | 3 5           | 651   | 6718                                  | 28933                   | 5774  | 34707                | 7990             | 160   |
| 1 22037                               | V NL    | δo               | 33            | 695   | 10552                                 | 23143                   | 5774  | 28917                | 7990             | 160   |
| A RAMSAY C<br>13F212136               |         | 00               | 3 5           | 396   | 25403                                 | 9993                    | 23094   | 33087                | 31961            | 640   |
| IA RAMSAY C                           |         |                  |               |   |                                       |                         |   |                      |                  | 480   |
| BELL RAMSA                            |         | 00               | 95            | 938   | 23874                                 | 72064                   | 17321   | 89385                | 23971            |   |
| 50 42136                              | Ň       | 25               | 27            | 488   | 7991                                  | 19497                   | 4330  | 23827<br>21950       | 5993<br>5993     | 120   |
| BELL GAMGA                            | KY B    | 75               |               | 804   | 918 <b></b> 4                         | 17620                   |   | 21950                |                  |   |
| 1M292037                              | 1 NL    | 000              | 33            | 980<br>994  | 8795<br>9153<br>6180                  | 25185<br>24841          | 5774<br>5774  | 30959<br>30615       | 7990<br>7990     | 160<br>160  |
| 2M332037<br>3L282037                  | 'I NH   | 000              | 4 C           | 994   | 6180                                  | 33967                   | 5774  | 39741                | 7990             | 160   |
| BELL RAMSA                            | M R     | 00               | 104           | 345   | 32912                                 | 71433                   | 17321   | 88754                | 23971            | 480   |
| W A RAMSAY                            | 1 Á     | . 1              |               |   |                                       |                         |   |                      |                  |   |
| 20E352136<br>W A RAMSAY               | N4      | 00               | 151           | 047   | 29431                                 | 121616                  | 23094   | 144710               | 31961            | 640   |
| 14 = 342136                           | Ň3      | 00               | 1 Q 4         | 644   | 27896                                 | 76748                   | 17321   | 94069                | 23971            | 480   |
| W A RAMSAY<br>2E252136<br>REEVES      |         | 00               | 68            | 982   | 18685                                 | 50297                   | 11547   | 61844                | 15981            | 320   |
| REEVES<br>1L292037                    |         |                  |               |   | 4940                                  |                         |   |                      | 7990             | 160   |
| 1L292037<br>2E292037<br>SHIPP A       | NI      | 000              | 39            | 032<br>524  | 9559                                  | 28092<br>29965          | 5774  | 33866<br>35739       | 7990             | 160   |
| SHIPP A<br>1F211937                   | N2      |                  | 1 3           | 998   | 6007                                  | 7991                    | 11547   | 19538                | 15981            | 320   |
| SHIPP B                               |         |                  |               | •••   |                                       |                         |   |                      |                  |   |
| 2E 81937<br>Elbert Shi                |         | BO               | 75            | 074   | 25040                                 | 50034                   | 11547   | 61581                | 15981            | 320   |
| 3H 71937                              | N1      |                  | 37            | 488   | 8974                                  | 28514                   | 5774  | 34288                | 7990             | 160   |
| SUNSHINE<br>2N302037                  | N1      | 00               | 36            | 584   | 11829                                 | 24755                   | 5774  | 30529                | 7990             | 160   |
| LWWHITE                               | A       |                  |               |   |                                       |                         |   |                      |                  | 1 <b>1</b> 1  |
| 21252036<br>W WHITE                   | B       | 00               |               | 172   | 16725                                 | 53447                   | 11547   | 64994                | 15981            | 3 28  |
| 5M352036                              | N1      | 00               | 39            | 209   | 5824                                  | 33385                   | 5774  | 39159                | 7990             | ¥60   |
| B WHITMIRE<br>28 82037                | N1      | 25               | 35            | 010   | 12060                                 | 22950                   | 7217  | 30167                | 9988             | 200   |
| HONEYMAN                              |         | JR               |               | , in the second |                                       |                         |   |                      |                  |   |
| WULFF STAT                            | TE      |                  |               |   |                                       |                         |   |                      |                  | • <b>f</b> - e, e, e [                                  |
| 2E172037                              | N.      | 50               | 17            | 563   | 147                                   | 17416                   | 2887  | 20303                | 3995             | 80  |
| WILLIAM A.                            |         | D E              | EDWAR         | D R   | HUDSÖN                                |                         |   |                      |                  | 1   |
| PHILLIPS U<br>18302037                |         |                  | 37            | 727   | 8 5 0 4                               | 29223                   | 5774  | 34997                | 7990             | 160   |
|                                       | •       |                  |               | <u>.</u>  | · · · · · · · · · · · · · · · · · · · |                         | -   |                      |                  | +00   |
| KELLY J M<br>Humble st                |         |                  | •             | •   |                                       | · · · · · ·             |   |                      |                  |   |
| 1K161937<br>KELLY STAT                | NI      | 50               | 16            | 928   | 11980                                 | 4948                    | 8660  | 13608                | 11985            | 240   |
| 1F131936                              | T-NH    | ام م             | 36            | 918   | 8028                                  | 28890                   | 5774  | 34664                | 7990             | 160   |
|                                       | •       |                  | · .*          |   | · · · ·                               |                         |   |                      |                  |   |

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| EUMONT POC  |               | PER               | MIÄN                                     | BASI              | N SŸSTEM       | СТО                     |                   | YEAR:1960               | PAGE: 17   | •              |
|---|---------------|-------------------|--|-------------------|----------------|-------------------------|-------------------|-------------------------|--|----------------|
| DESCRIPTION   | STATUS        | ACREAGE<br>FACTOR |  |                   | FEBRUARY       |                         |                   | AR                      | APR .  | DELIVERABILITY |
|   |               |                   | BEGINNING NET                            | TALLOWABLE ±      | MCF PRODUCTION | OVER/UNCER PRODUCTION ± | CURRENT ALLOWABLE | ENDING NET ALLOWABLE    | ALL ALLOUATION   |                |
| OHIO OIL C<br>BARBER  | :p            |                   | •  |                   |                |                         |                   | 14                      |  |                |
| 110 52037   |               | 200               | 7:                                       | 2286              | 18961          | 53325                   | 11547             | 64872                   | 15981  | 320            |
| STATE ELLI<br>4P301937  | ŃŃ            | loo               | 38                                       | 3482              | 8674           | 29808                   | 5774              | 35582                   | 7990   | 160            |
| STATE HANS<br>4H162037  | ΈŇ            | 100               |  | 4348              | 7550           | 26798                   | 5774              | 32572                   | 7990   | 160            |
| W H LAUGHL  | .   N         |                   |  |                   | ł              |                         |                   | · · · · ·               | 7990   | 160            |
| 36 92037<br>St McDONAL  | Þ.            |                   | 2  | 7430              | 7746           | 29684                   | 5774              | 35458                   |  |                |
| 11A132236<br>26J132236  | N N           | 100               | 31                                       | 7817<br>4662      | 4462<br>5456   | 33355<br>129206         | 5774              | 39129<br>146527         | 7990<br>23971  | 160<br>480     |
| STATE MCGR  | AI            | <b>L</b> . '      |  | *                 | 1              |                         |                   |                         | 3995   | 80             |
| 1N261936<br>C J SAUNDE  | RS            | 50                |  | 3786              | 533            | 13253                   | 2887              | 16140                   |  |                |
| C J SAUNDE<br>1C 12236<br>STATE D 16<br>1J281937                | N             | 50                | 1 7                                      | 7602              | 3735           | 13867                   | 2887              | 16754                   | 3995   | 80             |
| ĨĴĴŻ8Ĩ9 <u></u> 37  |               | 100               | 4 (                                      | 5933              | 18261          | 28672                   | 5774              | 34446                   | 7990   | 160            |
| DAN AMERIC  | AN            |                   |  | •                 |                |                         |                   |                         |  |                |
| GILLLY A  | R             | A A<br>2 2 5      | 71                                       | 010               | 18045          | 52971                   | 12990             | 65964                   | 17978  | 360            |
| 3N332037<br>4D222037<br>X6A212037                               | Ň             | 150<br>200        | 5  | 019<br>772<br>528 | 16626          | 52974<br>36146          | 8660              | 65964<br>44806<br>72790 | 11985  | 240<br>320     |
| GILLULLY B  |               | 2 <u>0</u> 0      | 71                                       |                   | 16285          | 61243                   | 11547             | 72790                   |  | •              |
| 7K222037<br>GILLULLY G  | Ň             | 150<br>UN         | 55<br>IT                                 | 5270              | 14612          | 40658                   | 8660              | 49318                   | 11985  | 240            |
| 48242036  | A S<br>Z<br>E | 300               | 112                                      | 2477              | 26893          | 85584                   | 17321             | 102905                  | 23971  | 480            |
| G LLLÜLLY<br>G 48242036<br>R 8 MCQUAT<br>1A112136<br>STATE 2176 | TE<br>N       | RS<br>50          | 12                                       | 893               | 907            | 11986                   | 2887              | 14873                   | 3995   | 80             |
| STATE C TR<br>1× 22136  | 1             | 200               | - ,                                      | 2772              | 19400          | 53372                   | 11547             | 64919                   | 15981  | 320            |
|   | -             | . Ť               |  |                   | 19400          | 55572                   | 1 1 2 4 1         |                         | 10001  |                |
| N G PENROS<br>Alves   |               | ŅĊ                | • •                                      |                   |                |                         | and the second    |                         |  |                |
| 2G182137<br>ALVES A   | N             | 100               | 15                                       | 5157              | 162            | 14995                   | 5774              | 20769                   | 7990   | 160            |
| 1P 72137  | Ň             | 100               | 36                                       | 5044              | 944            | 35100                   | 5774              | 40874                   | 7990   | 160            |
| 1M312137  | Ņ             | 96                | 31                                       | 072               | 8803           | 22269                   | 5543              | 27812                   | 7671   | 154            |
| 5TAN FEDER<br>18352037  | ٩Ľ            | 100               | 37                                       | 401               | 12112          | 25289                   | 5774              | 31063                   | 7990   | 160            |
| TURLAND FE  | Þ             | 100               |  | .271              | 9457           | 21814                   | 5774              | 27588                   | 7990   | 160            |
|   | ŀ -           |                   | 4 <del>1</del>                           | . £ / 1           | <b>34</b> 7    | 21014                   |                   | 21500                   | 1990   | TOO            |
| BERNA   | ET            | CO                | . 1                                      | •                 |                |                         |                   | · · ·                   |  | 5              |
| 1P141936<br>HOBBS   | Ņ             | 100               | 3 5                                      | 176               | 7080           | 28096                   | 5774              | 33870                   | 7990   | 100            |
| 4N182037  | ĹŅ            | 100               | 18                                       | 710-              | 1025           | 19735EX                 | 5774              | 13961-                  | 7990   | 160            |
| 1 6 1 9 1 9 7 7   | EN            | 25                | 8  | 017               | 421            | 7596                    | 1443              | 9039                    | 1998   | 40             |
| MEXICO<br>3H182037<br>NEW STATE                                 | Ň             |                   |  | 431               | 12020          | 23411                   | 5774              | 29185                   | 7990   |                |
| NEW STATE   |               |                   |  |                   |                |                         |                   |                         | and the second | 160            |
| 211262036   | N             | 50                |  | 691               | 2330           | 14361                   | 2887              | 17248                   | 3995   | 80             |
| 2H262036<br>UAPAW<br>1P192037                                   | Ņ             | 100               | 4 0                                      | 333               | 9272           | 31061                   | 5774              | 36835                   | 7990   | 160            |
| SCHERMERHO  |               | 01                | <del>.</del>                             |                   |                |                         |                   |                         |  |                |
| HRISTMAS<br>10112037<br>ULF STATE                               | N             | 100               | 38                                       | 187               | 5993           | 32194                   | 5774              | 37968                   | 7990   | 160            |
| ULF STATE<br>19311837   |               | <b></b>           |  | 699               | 8459           | 10240                   | 2887              | 13127                   |  |                |
| 1P311837<br>- INAM A  | N             | 50                | 10                                       | 077               | Q 4 J 9        | TACAA                   |                   | T J T C (               | 3995   | 80             |
|   |               |                   | an a |                   |                |                         |                   | -                       |  |                |
| · · ·   | F [           |                   |  |                   |                | <u> </u>                |                   |                         |  | 1              |

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a and a second

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|--|---------------------------------------|---------------------------|----------------------|-------------------------|-------------------|------------------------|------------------|----------------|
| EUMONT POC   | 1 1 1                                 | MLAN BASI                 | N SYSTEM<br>FEBRUARY | CTD                     | MA                | YEAR:1960              | PAGE: 18<br>APR. | ACREAGE OR     |
| DESCRIPTION  |                                       | BEGINNING NET ALLOWABLE ± |                      | OVER/UNDER PRODUCTION ± | CUARENT ALLOWABLE | ENDING NET ALLOWABLE ± | NEW ALLOCATION   | DELIVERABILITY |
| 1.1321837<br>LINAM B   | N250                                  | 24415                     | 12563                | 11852                   | 14434             | 26286                  | 19976            | 400            |
| 2N331837   | M178                                  | 2206                      | 5 5 0 6              |                         | 15100             | 15100                  | 15100            | 285            |
| SHELL OIL<br>STATE F   | co                                    |                           |                      |                         |                   |                        |                  |                |
| 11291937   | Ň100                                  | 11936                     | 7670                 | 4266                    | 5774              | 10040                  | 7990             | 160            |
| BERRYMÁN   | IL GA                                 | S                         |                      |                         | <i></i>           |                        |                  | ,              |
| 10112136<br>W C ROACH  | 5 N 25                                | 8109                      | 4 9                  | 8060                    | 1443              | 9503                   | 1998             | 40             |
| 1D212037<br>STATE 176  | NROO                                  | 75888                     | 23452                | 52436                   | 11547             | 63983                  | 15981            | 320            |
| 3 1 9 2 1 3 6<br>J H WILLIA  | N150                                  | 57134                     | 16161                | 40973                   | 8660              | 49633                  | 11985            | 240            |
| 3E341937   | MS<br>N125                            | 49626                     | 11038                | 38 588                  | 7217              | 45805                  | 9988             | 500            |
| SKELLY OIL<br>BAKER B  | ср                                    |                           |                      |                         |                   |                        |                  |                |
| L 2K102237   | N150                                  | 49882                     | 8458                 | 41424                   | 8660              | 50084                  | 11985            | 240            |
| 16162136   | N100                                  | 40562                     | 6623                 | 33939                   | 5774              | 39713                  | 7990             | 160            |
| 1X 22135<br>41 22135   | Ň100<br>Ň100                          | 35994<br>30329            | 9062<br>5882         | 26932<br>24447          | 5774<br>5774      | 32706<br>30221         | 7990<br>7990     | 160     160    |
| MEXICO X<br>1H291937   |                                       | 33818                     | 7615                 | 26203                   | 5774              | 31977                  | 7990             | 160            |
| MONSTATE<br>ANI 31936  | X100<br>X100                          | 35174<br>35932            | 7392                 | 27782                   | 5774              | 33556                  | 7990             | 160            |
| 5H131936<br>STATE F<br>20172037  |                                       |                           | 7041<br>1005 (       | 28891                   | 5774              | 34665                  | 7990             | 160            |
| STALE  |                                       | 36625                     | 12254                | 24371                   | 5774              | 30145                  | 7990             | 160            |
| 1 = 252036   |                                       | 40703                     | 13113                | 27590                   | 5774              | 33364                  | 7990             | 160            |
| SOCONY MOB   |                                       | L COMPANY                 | INCORPOR             |                         | -1                |                        |                  |                |
| 10162037   |                                       | 1599                      | 441                  | 1158                    | 1443              | 2601                   | 1998             | 40             |
| J L BARR   |                                       |                           |                      |                         |                   |                        |                  |                |
| 2L241936<br>W B MAVEET   |                                       | 37779                     | 10216                | 27563                   | 5774              | 33337                  | 7990             | 160            |
| VEATHERLY  | N100                                  | 38035                     | 13409                | 24626                   | 5774              | 30400                  | 7990             | 160            |
| 1K172137   | N100                                  | 33541                     | 3514                 | 300,27                  | 5774              | 35801                  | 7990             | 169            |
| SUNRAY MID   | CONT                                  | · · · · ·                 |                      |                         |                   |                        |                  |                |
| SUNRAY MID<br>MARSHALL<br>21112136   | N100                                  | 36627                     | 8161                 | 28466                   | 5774              | 34240                  | 7990             | 160            |
|  | GAS                                   |                           |                      | 10 J 1                  |                   |                        |                  |                |
| 1L 32037   |                                       | 36616                     | 10037                | 26579                   | 5774              | 32353                  | 7990             | 160            |
| TEXACO<br>STATE H AG   | GIES                                  |                           |                      |                         |                   |                        |                  |                |
| 241312037  | NI 00                                 | 34979                     | 9210                 | 25769                   | 5774              | 31543                  | 7990             | 160            |
| 50 52037   | N150                                  | 34134                     | 396                  | 33738                   | 8660              | 42398                  | 11985            | 241            |
| 40302137   | N196                                  | 65602                     | 17322                | 48280                   | 11316             | 59596                  | 15661            | 314            |
| 10181937   | N198                                  | 19178                     | 12359                | 6819                    | 11432             | 18251                  | 15821            | 317            |
| TS 2 W G 2000<br>XAT 1 300200<br>XAT 1 300200<br>XAT 1 300200<br>XAT 1 300200<br>XAT 1 300200<br>XAT 1 300200<br>XAT 1 300200<br>SOL 2000<br>SOL | N100                                  | 30772                     | 8658                 | 22114                   | 5774              | 27888                  | 7990             | 160            |
|  | · · · · · · · · · · · · · · · · · · · |                           |                      |                         | <u> </u>          |                        |                  | <u> </u>       |

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| DESCRIPTION                                      | STATES A                        | ERI      |              |            |                |          | FE   | 3R      | UA         | RY         | /  |                | · · · ·       |          |          |            |       |            |                | AR   | AR      |                |        |          |          |        | R.       |            |              | CREAGE O                                      |
|--|---------------------------------|----------|--------------|------------|----------------|----------|------|---------|------------|------------|----|----------------|---------------|----------|----------|------------|-------|------------|----------------|------|---------|----------------|--------|----------|----------|--------|----------|------------|--------------|---|
|  |                                 | FACTOR   | BEGINN       | ING NET    | ALLOWA         | BLE ±    |      | CF PR   | ODUCTI     | <u>0 H</u> | 01 | R/UNDE         | RPRO          | UCT:0    | <u> </u> | CUR        | RENTA | LLOWA      | BLC            | ENDI | NGNE    | T ALLO         | WABL   | <u>[</u> | <u>N</u> | EMALI  | OCATI    | ON         |              |   |
| 10102037   | ĹŃĮ                             | 75       |              | 61         | . 83           | 1        |      | 1       | 68         | 23         |    | 4 5            | 50            | 08       |          |            | 1 (   | D 1        | 04             |      | 5       | 51             | 1      | 2        |          | 1      | 39       | 8 2        | 5            | 28  |
| IILLIPS<br>Lof 62037<br>DDEL                     | RNI                             | 00       | -            | 3 5        | 584            | 3        |      |         | 81         | 79         |    | 27             | 6             | 64       |          |            | !     | 57         | 74             |      | 3       | 34             | 3      | 8        |          |        | 79       | 9 ç        |              | 16  |
| 1N122136<br>2A122136                             |                                 |          | 1            | 34         | 79             | 8        |      |         | 6 Ġ<br>1 O | 9697       |    | 2 8<br>L 1 9   | $\frac{1}{3}$ | 02<br>79 |          |            |       | 57         | 74<br>74       |      | 12      | 38<br>51       | 7<br>5 | 63       |          |        | 79<br>79 | 9 C<br>9 C |              | $\begin{array}{c} 1 \ 6 \\ 1 \ 6 \end{array}$ |
| UNDERS 5<br>10181937                             | TNI                             |          | ר ר<br>י     |            | )11            |          |      |         |            | 62         |    |                |               | 50       | ~        |            |       |            | 60             |      |         | 13             |        |          |          | 1      | 19       | 8 5        |              | 24  |
| ATE C NO<br>98192037<br>ATE C NO                 | NL                              | 00       |              | 36         | 8 9            | \$       |      |         | 87         | 71         |    | 28             | 1             | 21       |          |            | Į     | 57         | 74             |      | 3       | 38             | 9      | 5        | 2.4      |        | 79       | 9 C        |              | 16  |
| 1 J 61937<br>ATE E NO                            | T NR                            | 03       |              | 65         | 598            | 1        |      | 1       | 4 5        | 26         | ;  | 51             | . 4           | 55       |          |            |       |            | 50             |      | 6       | 31             | 7      | 5        |          | 1      | 6 5      | s c        |              | 32  |
| 1M 12036   | ŇĪ                              | 00       |              | ,          | 61             |          |      |         |            | 79         |    |                | . 1           | · .      |          |            |       | 57         |                |      |         | 69             |        |          |          |        |          | 90         |              | 16  |
| 2M191937<br>ATE H NC                             | hr : b                          | 00       |              |            | 581            | •        |      |         |            | 68         |    | •              | ) <b>4</b> .  | •        |          |            |       | 57         |                |      |         | 62             |        |          |          |        |          | 90         | 1            | 16  |
| ATE H NC<br>50192037                             | ΓB                              | 00       | 1            |            |                |          |      |         |            | 25         |    |                | 1             |          |          |            |       | 73         |                | 1    |         | 05<br>(        |        |          |          |        | •        | 71<br>90   |              | 48  |
|  | 4                               | 00       |              |            | 94<br>79       |          |      |         |            | 26<br>84   | 1  |                | 1             | _        |          |            |       | 57         |                |      |         | 48<br>53       |        | . 1      |          |        |          | 90         |              | 16  |
| ATE J<br>3F241936                                |                                 | 00       |              |            | 15             |          |      | 1       | 34         |            |    |                | 7             |          |          |            |       | 57         |                |      |         | -<br>75        |        |          |          |        |          | 90         |              | 16  |
| 711937<br>315241936<br>112241936                 |                                 |          | ۰.<br>در     | ÷ •        |                |          |      |         | · ·        | 1 4        |    |                |               |          |          |            |       | С. 25 р. – | 1              |      |         | 19 A.          |        |          | •        |        | 70       | 90         | -<br> -      | 16<br>16                                      |
| 2N231936<br>PELINE                               | Т<br>Т<br>Т<br>Т<br>Т<br>Т<br>Т | 00       | 83           | 37         | 24<br>59<br>97 | 5        | 19   | 1<br>99 | ó 8<br>4 9 | 74<br>98   | 0  | 30             | 79            | 2172     |          | 14         | 8     | 57         | 74<br>74<br>43 | 78   | 3<br>37 | 60<br>24<br>53 | 9<br>1 | 5        | 2 0      | ) 4    | 79<br>91 | 902        |              | 16  |
|  |                                 | <u>.</u> |              |            |                |          |      | 14      |            |            |    |                |               |          |          |            | a     | -          |                |      |         |                |        |          |          |        |          |            |              |   |
|  | ETR                             |          |              | 1 C        | . O №          | PA       | NY.  |         | 1 P        | E L        |    | 1 –            | 5             | YS       | 1        | ,<br>  • 1 |       |            |                |      |         |                |        |          |          | -1     | · · · ·  | •          |              |   |
| ALE FED  | M                               | 50       | . <b>.</b> . | 2          | 44             | 3        | •    |         | 24         | 43         |    |                | ,             | • •      |          |            | 7     | 750        | 08             |      |         | 75             | 0      | 8        |          |        | 75       | 0 8        | -            | 8   |
| 2K342036<br>4N342036<br>ATE AK<br>40 32135       | Ň                               | 50       | ÷.,          | <b>.</b> . | 44<br>79       |          |      |         | 34         | 81         |    |                |               | B 9      | X        |            |       | 28         | ~              |      |         | 11             | 94     | B        |          |        | 39       | 9 5        |              | 8   |
|  |                                 | 00       |              |            | 85             | -        |      |         | 7          | 05         |    | 54             | 1!            | 51       |          |            | 5     | 57'        | 74             |      | 5       | 99             | 5      | 5        |          |        | 79       | 90         |              | 16  |
| TEC 01L<br>ATE E 33<br>20332036                  | A Ň D<br>Ň I                    |          | 45           |            | MP<br>75       | ÀN       | Ŷ    |         | 40         | 8 1        |    | зò             | 6             | 73       |          |            | É     | 57'        | 71             |      | Ż       | 84             | 4      | ~        |          |        | 70       | 90         |              | 16  |
|  |                                 |          |              | ų ų        | 10             | <b>.</b> |      |         | 40         | Ŭ I        |    | 5              | Ņ             |          |          |            |       |            | ' 7            |      |         | 0 +            |        | •        |          |        |          | 90         | ].           | -7  |
| NTZ<br>1M212137<br>2L212137<br>ATHERLY<br>1E2137 | ŇΙ                              | 0.0      | :            | 59         | 83             | 1<br>7 - |      |         | 3          | 60         |    | 59             | 4             | 7.1      |          | 1          | Ē     | 57.        | 74             |      | 6       | 52<br>21       | 4 !    | 5        |          | . 1    | 79       | 9 O<br>9 3 |              | 16  |
| 2L212137<br>ATHERLY                              | Ņ                               | 75       |              |            |                |          |      |         | ·          |            | 1  | 76             |               |          | X        |            |       | 3:         |                |      |         |                |        | 1        |          |        | · · · ·  |            | 1 1          | Fill State                                    |
| 16212137<br>PELINE                               | ΝΊ<br>ΤÖΓ                       | 50<br>AL | 1            | 83         | 43<br>85       | ĩ        |      | 2       | 30<br>71   | 78<br>65   | 1  | 88<br>56       | 58            | 36       |          |            | 4 C   | 86.<br>970 | 57             | 1    | .9      | 72<br>73       | 5      | 3        |          | 1<br>5 | 19<br>34 | 85<br>51   |              | 24  |
| ELLY OIL   | ċò                              | MP       | ÂÑY          | P          | i P            | FL       | I NÉ |         | SY         | ST         | EN | 1 <sup>1</sup> |               |          |          |            |       |            |                | ,    |         |                |        |          |          |        |          | ÷ .        |              |   |
| 승규는 것 같은 것 같은 것 같아. 🍽                            |                                 |          |              | •          |                | 77       |      | -       | -          |            |    |                | •             | •        |          |            |       | •          |                |      |         |                |        |          |          |        |          | •          |              |   |
| N AMERIC<br>H TURN<br>1P292137<br>PELINE         | RZ                              | 50       |              | 8          | 13             | 8        |      |         | 28         | 3 0<br>3 0 |    | 5              | 30            | 2 8      |          |            | 2     | 888        | 87             |      |         | 81<br>81       | 9 !    | <u>5</u> | -        | :      | 39       | 95<br>95   |              | 8   |
| HELINE   | тот                             | AL       |              | ε          | 13             | ß        |      | -       | 20         | ې د        | -  | 5              | 30            | 2.8      |          |            | Ċ     | ័ត្ត       | 87             |      |         | 81             | 9      |          | -        |        | 59       | 9 5        | and a second |   |
| UTHERN U   | NIP                             | N C      | SAS          | Ç          | ÓM             | PA       | NY   |         | ÌP         | ΕĹ         | ÎÑ | E              | Sì            | rś       | ΓĖ       | M          | -     | •          |                |      |         |                | ·      |          |          |        |          | •          | 1            |   |
| TWEIL MO<br>WHITE<br>IA 22135                    | RRI                             | ș F      | 2            | •          | •              |          | :    |         | *          | -          |    | -              | •             |          | t        |            |       | :<br>. :   |                | •    | •       |                | •      |          | •        |        |          |            |              |   |
| 1A 22135   | N                               | 7 2      |              | 34         | 07             | 2        |      |         | 29         | 17         |    | 31             | 1 !           | 5,5      |          | 9          | - 4   | 1          | 57             |      | 3 !     | 53             | 1 2    | s        |          | !      | 57       | 53         |              | 11  |

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| UMONT POO  |                 |   | UTHERN UN  | LON SUST  | EM CTD                                |                         | R:1960               | PAGE: 20   |                             |
|--|-----------------|---|--|---|---------------------------------------|-------------------------|----------------------|--|-----------------------------|
| DESCRIPTION  | STATOS A        | FACTOR                                  | BEGINAING HET ALLOWABLE ±  | FEBRUARY  | OVER/UNDER PRODUCTION ±               | MAR.                    |                      | APR.   | ACREAGE OR<br>DELIVERABILIT |
|  | · ·             |   |  | HCT FRODUCTION  | OVERICADER PRODUCTION T               | CURRENT ALLOWABLE ENDIN | GNET ALLOWABLE       | NEW ALLOCATION   |                             |
| TLANTIC R  | EFI             | Ņļ                                      | NG   |   |                                       |                         |                      |  |                             |
| 10172136<br>TATE 0   | Ň               | 50                                      | 4752   | 3575  | 1177                                  | 2887                    | 4064                 | 3995   | 8 (                         |
| 2D322037   | Ň               | 50                                      | 2858   | 5496  | !                                     |                         |                      | 3995   | 8                           |
|  |                 |   | •  | 5490  | 2638FX                                | 2887                    | 249                  |  | Ŭ                           |
| ZTEC OIL<br>TATE E 20  | АйЬ             | G                                       | AS   |   |                                       |                         |                      |  |                             |
| 1 G 2 O 2 O 3 6  | Ñ1              | 00                                      | 38372  | 3277  | 35095                                 | 5774                    | 40869                | 7990   | 16                          |
| 18331937   | Ň               | 75                                      | 12080  |   |                                       | *                       |                      | 6007   | 12                          |
| 1B331937<br>21331937   | N               | 75                                      | 17616  | 3591<br>3693  | 8489<br>13923                         | 4330                    | 12819<br>18253       | 5993<br>5993   | 12                          |
|  |                 |   |  |   | ~~                                    |                         | 10000                | 2  |                             |
| OOPER C  | ·               |   | <b>A 1 1 1</b>   | · · · · ·   |                                       |                         |                      | · · · · · · · · · · · · · · · · · · ·  |                             |
| \$B 32037  | NI              | 00                                      | 42706  | 3944  | 38762                                 | 5774                    | 44536                | 7990   | 16                          |
| ONTINENTA  | L b             | 11                                      |  |   |                                       |                         |                      |  |                             |
| HILLPSH  | ōğþ             | ER                                      |  |   |                                       |                         |                      |  |                             |
| 0NT   NENTA<br>HILLIPS H<br>10272037<br>TATE 11<br>1L112136  | NI              | 0 0                                     | 3889   | 7420  | 3531EX                                | 5774                    | 2243                 | 7990   | 16                          |
| 1-112136   | Ň               | 25                                      | 11438  | 1 Q 9 2 4   | 514                                   | 7217                    | 7731                 | 9988   | 20                          |
|  |                 |   |  |   |                                       |                         |                      | · · · · · · · · · · · · · · · · · · ·  |                             |
| TATE TURN  | ER.             | [                                       |  | •   |                                       |                         | · · · ·              | • •  |                             |
| <b>AC3</b> 22037   | ŇĮ              | 00                                      | 5598   | 3409  | 11110                                 | 5774                    | 4663                 | 7990   | 10                          |
| TATE O'L   | ċ ϙ ြ           |   |  |   |                                       |                         |                      |  | • • •                       |
| 1H322037   | N               | 6 0                                     | 606  | 2876  | 0.001.0                               | 000                     |                      |  |                             |
|  |                 | 50                                      | 605  | 2010  | 2271EX                                | 2887                    | 616                  | 3995   | 8                           |
| REAT WEST<br>ORDAGES FE<br>10331937  | 2 N             | DR                                      | -G   |   |                                       |                         |                      |  | •                           |
| 10331937   | - N             | 75                                      | 3061   | 10028   | 6967EX                                | 4330                    | 2637-                | 5993   | 12                          |
|  |                 |   |  |   |                                       |                         | ~~~                  |  |                             |
| ALLACE ST  | ±.              | 1                                       | • • • • • • •  | -   | • · · ·                               |                         |                      |  | . · · ·                     |
| 26 32136   | ŇÞ.             | 00                                      | 2694   | 12020   | 9326EX                                | 5774                    | 3552-4529-           | 7990   | 16                          |
| 1 D 3 3 1 9 3 7<br>TEX<br>LLACE ST<br>3 2 1 3 6<br>3 N 3 2 1 3 6   | N               | 5 Ö                                     | 1192   | 8608  | 7416EX                                | 2887                    | 4529-                | 3995   | . 8                         |
| LAN LANF   |                 |   |  |   |                                       |                         |                      | · · · · · · · · · · · · · · · · · · ·  | · .                         |
| INCLAIR<br>10341937  | NMS             | 5 0                                     | 16694  | 644   | 16050                                 | 0007                    | 10077                |  | _                           |
| + • • • + + • • •  | . 7             | 50                                      | + 0 0 9 4  |   | 10050                                 | 2887                    | 18937                | 3995   | 8                           |
| G PENROSE<br>11.L.1.PS CF<br>14.34.2037  | 5.11            | NSL                                     |  |   |                                       | · .                     |                      |  |                             |
| 14342037   | NI.             | 0 0                                     | 5876   | 6564  | 688EX                                 | 5774                    | 5086                 | 7990   | 16                          |
| ELLY OIL   | çp              | ~ ⊳°  .                                 |  |   |                                       |                         |                      |  | 10                          |
| LE 6 01<br>ATELE 6 037<br>ATELE 0790<br>10 L 0770<br>10 L 07700<br>10 L 07700<br>10 L 07700<br>10 L 07700<br>10 L 07700000000000000000000000000000000 | ., <b>Ç</b> P   |   |  |   |                                       |                         |                      |  |                             |
| 75162136   | N1              | 00                                      | 7581   | 13050   | 5469EX                                | 5774                    | 305                  | 7990   | 16/                         |
| ATE G<br>1-302037  | Ň               | 25                                      | 24384-   |   | 024384EX                              | 1443                    | 22941-               |  | 1                           |
| NETTEN!  |                 |   |  |   |                                       |                         |                      | 1998   | /4                          |
| 00 92037   | N1              |   | 5784<br>6962<br>196146   | $ \begin{array}{r} 11074\\ 10299\\ 123409 \end{array} $ | 5 2 9 0 EX<br>3 3 3 7 EX<br>7 2 7 3 7 | 5774<br>5774<br>92208 1 | 484<br>2437<br>64945 | 7990<br>7990<br>127603   | 16                          |
| PELINE   | NI<br>NOT       | ĂĽ                                      | 196146   | 123409  | 72737                                 | 92208 1                 | 5 4 9 4 5            | 127603   | рs                          |
|  |                 |   |  |   | an Arristan print and                 |                         |                      |  | - <b>1</b>                  |
| RREN PETE  | έ φ μ' i        | EUN                                     | 1 COMPANY  | PIPELINE  | SYSTEM                                |                         | • • • • •            |  | 1                           |
| ANI LANE   |                 |   |  |   |                                       | •                       |                      | 1997 - 19 | 1.                          |
| H WILLIAN<br>3N 34 19 37   | 15              |   | <ul> <li>A state of the sta</li></ul> |   |                                       |                         |                      |  | <b>-</b>                    |
| 3N341937   | ्रभृ <b>1</b> ् | 00                                      | 7038   | 6477  | 561                                   | 5774                    | 6335                 | 7990   | 1160                        |
| EXACO  |                 |   |  |   |                                       |                         |                      |  |                             |
|  |                 | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | 2 A A A A A A A A A A A A A A A A A A A  | · · · ·   |                                       | 5 F                     | i                    | · · · · · · · · · · · · · · · · · · ·  | 4                           |

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| <br>E I    | IMC          | 1.61    | T                     | PO                  | ~ 1    | 1           | WAF                               |       |        | -               |   | חכו               |         |             |                |              | c -            | E        |           |            |                |                  |   |            |        |             |          | ν,  | EAR           | .1         | 0.6        | < ^       |          | PAC |          |                | 2                   | 1           |         | -   |
|------------|--------------|---------|-----------------------|---------------------|--------|-------------|-----------------------------------|-------|--------|-----------------|---|-------------------|---------|-------------|----------------|--------------|----------------|----------|-----------|------------|----------------|------------------|---|------------|--------|-------------|----------|-----|---------------|------------|------------|-----------|----------|-----|----------|----------------|---------------------|-------------|---------|-----|
|            |              |         | IPTION                |                     | ,      |             | ACREAGE                           | : [   |        |                 |   |                   | FE      | B           |                |              |                |          | <u>vi</u> |            |                |                  | 1 |            |        |             | M        | AR  | •             |            | <u>y (</u> | 50        |          | A   | PF       | ₹.             | •                   | 1           | ACREAGE | OR  |
|            |              |         | ····-                 |                     |        |             | FACTOR                            | BEG   | INNING | NET             | ALLOW   | 181E ±            |         | MCF         | PRODU          | CTIO         | N              | 1071     | R/UNC     | ER P.      | RODUC          | TION -           | - | CURREN     | IT ALI | OWAB        | LE       | END | ING N         | T AL       | OWAB       | 111       | <u>-</u> | NE  | W ALLO   | CATI           | DN                  |             | LIVERAD |     |
|            |              |         | 1 2<br>  N<br>  O     | E<br>T A            | 7<br>L | BNO         | 1 0 C<br>T AL                     | . (   | 2 2    | 6<br>1 3<br>5 9 | 882   | 87<br>5<br>5<br>5 |         | 34          | 31<br>37<br>46 | 27           | 207            | 38       | 22<br>21  | 432        | 33<br>77<br>22 | 8 E)<br>7 S<br>3 | 2 | 2 8 G      | 1 1    | 7<br>5<br>9 | 48       | 6   | 1<br>1<br>6 8 | 820        | 5622       | 549<br>96 | -        | 39  | 1 :      | 79<br>59<br>60 | 90                  | 005         | 1 6     | 50  |
|            | JST          |         | 5                     | PO                  | ٥Ļ     | -           |                                   |       |        |                 |   |                   |         |             |                |              |                |          |           |            |                |                  |   |            |        |             |          |     |               |            |            |           |          |     |          |                |                     |             |         |     |
| EL         |              |         | 5 O                   |                     | ^ ].   |             | RAL                               | .  G  | A :    | 3               | ė I   | PE                | .       | <u>I</u> NI | 5              | S            | ΥS             | sτε      | ΞM        |            |                |                  |   |            |        |             |          |     |               |            |            |           |          |     |          |                |                     |             |         |     |
| HÓ         |              | Ē       | 5  <br>5  <br>1 2     | SE<br>1<br>53       |        | / 1<br>м    | СЕ<br>100                         |       | ·      | 6               | 01  | 0                 |         |             | 6              | 0            | 1 C            |          |           |            |                |                  |   |            | Q      | ، م         | 76       |     |               | 8 8        | 9.73       | 5         |          |     | \$       | R A            | 3 6                 |             | 16      | 50  |
| сò         | . *          |         | NEI                   | NT.                 | ÅL     | · •         |                                   | 1     |        |                 | 01  | . 0               |         |             | ò              | <sup>°</sup> | Ļζ             |          |           |            |                |                  |   |            | 0      | 8 :         | οġ       |     |               | 0          |            |           |          |     | Ĺ        | , o            | 5 (                 |             |         | Ũ   |
| ST         |              | Ē       | ຣີຊ໌                  | A<br>53             | 27     | N           | 100                               |       | 4      | 73              | 06  | ŚŻ                |         |             | 11             | 4            | 6 5            |          | 6         | 1 !        | 59             | 7                |   |            | 6      | 5           | 79       |     | 6             | 8          | 17         | E         |          |     | 1 5      | 54             | 00                  | 5           | 16      | 5 0 |
| EL<br>CA   | RL           | AS<br>S | NC                    | N                   | FIC    |             | ā A s                             | 1 .   |        |                 |   | >                 |         |             |                |              |                |          |           |            |                |                  |   |            |        |             | •        |     |               |            | •          |           |          |     |          |                |                     |             | ,<br>—` |     |
| BO         | 1 K<br>1 S T | 2       | 52                    | 53<br>FEI<br>53     |        |             | 200<br>200                        |       |        |                 | 37  | '0                |         |             |                |              | 14<br>51       |          | 0<br>5    |            |                | 4 EX             |   |            |        |             | 57<br>57 |     | 8<br>17       |            |            | 27<br>5   | -        |     |          |                |                     | 1           | 32      |     |
| 1          |              | · · ·   |                       |                     | 4      |             |                                   | 1.1   |        | :               | 40  |                   |         |             | 7              | Ŭ            | <u> </u>       |          |           |            | 01             | U                |   | <u>د</u>   | LJ     | <u> </u>    | , i      |     |               | 0 ;        | <b>,</b> , | 5         |          |     |          | , 0            |                     | 1           |         | Ŭ   |
| LE         | 30<br>200    |         | Y . N<br>3 2 !<br>7 1 |                     |        | Ň           | 0 1 0 1 0<br>1 0 0 1 0<br>1 0 1 0 | GT    | 01     | 35              | 70  | 0                 |         | ÷           | ż 4            | 0            | 3 3            |          | 1         | 1.6        | 56             | 7                |   | 1          | 13     | 1 5         | 5 7      |     | 2             | 48         | 9 2        | 4         |          |     | 3 C      | 8              | 00                  |             | 3 2     | ; o |
| 1 * *      |              |         |                       |                     |        | 8           |                                   | E .   |        |                 | •   | 3 -               |         |             | 4              | 5            | 26             | ĺ.       | 4         | Ş 9        | 98             | 9 EX             |   | 1          | 13     | 1 5         | 57       |     | 2             | 9 8        | 33         | 2         | -        |     | 30       | 8              | 00                  |             | 32      | :0  |
| WI         | 11B          | EF      | マム・                   | Υ<br>Υ<br>53        |        |             | V C O<br>L O O                    | 1 ·   |        |                 |   | . D<br>10         |         |             | 2              | 2            | 16             | {        | 5.        | 67         | 70             | 6 FX             |   |            | 6      | 57          | 79       |     | 5             | 0 -        | 12         | 7         |          |     | 1.5      | 5 <b>4</b>     | 00                  |             | 16      | 0   |
| TI         | 2            | - je i  | •••                   |                     | •      | - ÷ 1       |                                   | 0     |        |                 | 2   |                   |         |             |                |              |                |          | Ŧ         | •          |                |                  |   |            | Ĩ      | 7           | -        |     | •             |            |            | •         |          |     |          |                |                     |             |         |     |
|            | 1E<br>3K     | 222     | 2                     | 53                  | 7      | NK          |                                   |       | 14     | 17              | 74<br>21  | 4                 |         |             | 30<br>11       | 40           | 95<br>93       | 1        | 13        | 7 2<br>7 1 | 24             | 9<br>7           |   | 1          | 33     |             | 57       |     | 3<br>L 5      |            | 07         | 6<br>4    |          |     | 30<br>30 | 8              |                     | S           | 322     | 00  |
| WE         | ST           | AI      | TES                   | s i                 | SE     | ŢF          | ROL                               | Ęΰ    | M      | Ċ               | ÓΜ  | PA                | NY      | •           |                |              | •              |          |           |            | •              |                  |   |            |        |             |          |     |               |            |            |           |          |     |          | e<br>e         | · •                 |             |         |     |
| CAA        | 1.1          |         |                       |                     |        |             | 200                               | * · · |        | 37              | 88  | 2                 |         | -           | L 7            | 7            | 98             |          | 20        | o c        | 8 (            | 4                |   | 1          | . 3    | 15          | 5 7      |     | 3             | 3 2        | ? 4        | 1         |          |     | 30       | 8              | 00                  |             | 32      | 0   |
| WE<br>E A  | TO           | N       | 2 B I                 | -<br>               | -      |             | AS<br>AL                          | 1     | 1      | . 1.            | 58  | 3                 |         | ·           |                | 6            | 4 5            |          | 12        | S 2        | 2 2            | 8 FX             |   |            | 6      | 57          | 19       |     |               | 5 6        | 5 4        | 9         | _        |     | 1.5      | 4              | 00                  | ,           | 16      |     |
| P I<br>P O |              |         | NE<br>O               | TAL                 | -      |             | - AL                              |       | 393    | 22              | $17 \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\$ | 3-<br>1<br>1      |         | 2 C<br>2 C  |                | 9.9          | 45<br>46<br>46 |          | 9         | 12<br>12   | 222            | 8 EX<br>5<br>5   |   | 1.2<br>1.2 | 00     | 67<br>67    | 22       |     | 31<br>31      | 1 8<br>1 8 | 39<br>39   | 7<br>7    |          | 22  | 70<br>70 | 6<br>6         | 36<br>36            |             |         | A.  |
| TU         | BB           | ۶       | • O C                 | ) L                 |        |             |                                   | ×     | •      |                 | •   |                   |         |             |                |              |                |          |           |            |                |                  |   |            |        |             |          |     |               |            |            |           |          |     |          | •              |                     |             |         |     |
| <b>.</b>   | 1.           |         | ćç                    | NE                  | =      | PI          | PE                                |       | NE     |                 | s Y   | ST                | EM      | 1           | е<br>15        |              |                |          |           |            |                |                  |   |            |        |             |          |     |               |            |            |           |          |     |          |                | -                   | 1           |         |     |
| COAN       | NE           | RS      | J F<br>S O N          | 2                   |        |             |                                   |       |        | ~               |   |                   |         |             | 4              | <i>c</i> .   |                | <b> </b> |           |            |                | -<br>-           |   |            | -      |             |          |     |               | ~ ~        |            | •         | ĺ        |     |          |                | •                   |             |         |     |
| AN<br>PI   | ÞĘ           | Ľ ľ     | NE                    |                     | ή T    | N<br>0<br>T | 25<br>AL                          | <br>  |        | 9               | 8 4<br>8 4  | 1                 | н.<br>К |             | 1              | 6            | 16<br>16       |          | 1         | 22         | 22             | 5                |   |            | 22     | 111         | 4        |     | 1             |            |            |           |          |     | 22       | 22             | 2 2 2<br>2 2<br>2 2 |             | 4       | 0   |
| ço         | NŢ           | 15      | IEN                   |                     |        | þ           | і L                               | c     | ŐŇ     | P               | ΑŅ  | Y                 | Þ I     | PE          | Ĺ              | i<br>i r     | νE             | s        | YS        | 5 T        | Ē              | 4                | 1 |            |        |             |          |     |               |            | 1 4)<br>-  | 3         |          |     |          |                | . · · .             |             |         |     |
| COWA       | NT           | Z       | IEN                   | 1 T A<br>2 1<br>3 7 |        | ~ [         |                                   |       |        |                 |   |                   | · ·     | -           |                | ÷.           | -<br>          |          |           |            |                |                  |   |            |        |             |          |     |               |            | -          |           |          |     |          |                |                     |             |         |     |
| WA<br>PI   | 3 J<br>PE    | 21      | NE                    | . 3                 |        | δh          | 75<br>AL                          |       | 33     | NS<br>S         | 4 8<br>4 8  | 8<br>8            |         |             | 6              | 5            | 35<br>35       |          |           | 59         | 5              | 3                |   |            | 6      | 34<br>34    | 3        |     | 1<br>1        | 222        | 9          | 6         |          |     | 6<br>6   | 6              | 65<br>65            | A Low Level | 12      | 0   |
|            |              |         |                       |                     |        |             |                                   | L.    |        |                 |   |                   |         |             |                | • •,         |                |          |           |            |                |                  |   |            |        |             |          |     |               |            | -          |           |          |     | ~        | • •            |                     | 12          |         |     |

•• ·

| 7 1 1         | BB POOL  | F                     |                   | ASO       | c        | V e          | . т <i>е</i> | MC    | T D        |            |            |            |          |            |      |              |               |        | YEAF       |        | 0                 | 50       | D A      | GE:          |                   | 2          | 2      |   |            |
|---------------|--|-----------------------|-------------------|-----------|----------|--------------|--------------|-------|------------|------------|------------|------------|----------|------------|------|--------------|---------------|--------|------------|--------|-------------------|----------|----------|--------------|-------------------|------------|--------|---|------------|
|               | DESCRIPTION  | STATUS                | ACREAGE           |           | <b>b</b> |              | 21.6         | FEBR  |            | AR         | Ŷ          |            |          |            |      |              |               | M      | AR.        | . inf. | 2.0               | <u> </u> |          | API          | R.                |            |        | ACREAGE C                                     | SR<br>LITY |
|               |  |                       | FACTOR            | BEGINNING | ONET     | ALLOWA       | BLE ±        | MCF   | PRODUC     | TION       | 01         | R/UNDE     | R PRO    | DUCTI      | ON ± | CURRENT ALLO | WABLE         |        | ENDING N   | FT AI  | LOWA              | BIE +    | <u>×</u> | IFW ALL      | OCATI             | <u>0 N</u> |        |   |            |
| EL            | PASO NA  | τų                    | RAL               | GA        | S        | Pl           | PE           |       | Ξ          | SY         | STR        | ΞM         |          |            |      |              |               |        |            |        |                   |          |          |              |                   |            |        |   |            |
| C+            | TIES SER   | νi                    | CE                |           |          | •            |              |       |            |            |            |            |          |            |      |              |               |        |            |        |                   | 45       |          |              |                   |            |        |   |            |
|               | 2-125137   | N                     | 50                |           | 2        | <i>6</i> 6   | 7            |       | 1          | 01         | 8          |            | 36       | 79         | P EX | 4            | s             | 8      |            |        | 5 4               | 19       |          |              | 44                | 4          | 4      | 8   | Ó          |
| EL            | LIOTT B  | 15                    |                   |           | 4 . E    | ~ ~          |              |       |            | 70         |            |            |          |            |      | 0            |               | ~      |            | 0      | ~ ^               | 7 G      |          |              | 88                | Q          | ~      | 16  | 0          |
| EL            | LIOTT B  | 1 5                   | AC                |           | 45<br>3  | 05           |              |       |            | 38<br>05   |            | 4 (        | ) 6      | 16         | s    | •            | 45<br>57      |        | 4          |        | 07<br>67          |          |          |              | 00<br>16          |            |        | 16  |            |
| HA            | 2R 32137   | Ň                     |                   |           |          |              | 2~           |       |            | ~ .        | -          | 27         | ' 2      | 8 2        | 2 EX |              | 4 5           |        | 1          |        |                   | 2 Š.     | -        |              | 88                |            |        | 16  |            |
| HA            | 30 92137   | Ň                     |                   |           | 37       | 60           | 5 -          |       | . •        | 70         |            |            | 3        |            | 1    | 8 -          | 45            | 7      | 2          | 9      | 8 4               | 19.      | -        | 1            | 8 8               | 8          | 7      | 16  | 0          |
| HA            | 5K 92137<br>7P 92137   | ΣŻ                    | 100               |           | 91       | 9<br>1 1     | 2<br>3 -     |       | <b>9</b> : | 9<br>19    | 2 <br>7 -1 | . o ç      | 3        | 10         | ) EX | 8 4          | 59<br>15      | 8<br>7 | <b>`</b> 9 | 1      | 6 <u>5</u><br>8 5 | 83       | -        | 1            | 8 8               | 9<br>8     | 8<br>7 | 16<br>16                                      | 0          |
|               | 18102137<br>KHART A  | 2<br>2<br>2<br>2<br>2 | 1 T<br>1 O O<br>7 |           | 1        | 9 5          | 8            |       |            | 95         | ·          |            |          | •          |      | 1 9          | 96            | 7      |            | 1      | 9 e               | 57       |          | :            | 19                | 6          | 7      | 16  |            |
|               | 10272137<br>10272137   | NN<br>NN              | 100               |           | ວັ<br>6  | 27<br>61     | 7 -<br>6 -   |       | 8          | 96         | в          | 14         | 26       | 4 5<br>1 6 | EX   | 8 4          | 45<br>45      | 77     |            | 5<br>1 | 7 E<br>8 4        | 88.<br>1 | -        | <b>t</b><br> | 8 8<br>8 8        | 8          | 77     | $\begin{array}{c} 1 \ 6 \\ 1 \ 6 \end{array}$ | 00         |
|               | C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3CXPX2<br>C3C | FE<br>N               |                   | :         | 10       | 18           | 7            | 1     | 3          | 24         | 9          | 3          | 0        | 6 2        | EX   | 8 4          | 1-5           | 7      |            | 5      | 3 S               | ¢ 5      |          | 1            | 8 <del>8</del>    | 8          | 7      | 16  | 0          |
| LÕ            | 2P142137<br>CK B 35  | Ň                     | 4 A<br>1 0 0      |           | <b>1</b> | 39           | 3 –          | 1     | 5 5        | 900        | 5          | 17         | 2        | 93         | EX   | 8 4          | l 5           | 7      |            | 8      | 83                | 6-       | -        | {            | 88                | 8          | 7      | 16  | 0          |
|               |  |                       |                   |           | 5 Ò      |              | 1            | . · · | 4          | 48         | 5          | 4 6        | 3 (      | 8 7        |      |              | 5             | ÷ ]    |            |        | 8 4               | •        |          | . {          | Ś 8               | 8          | 7      | 16  | 0          |
|               |  |                       | 100               | • .       | 56       | 23           | 3            | 1     | . ș :      | 17:        | 3          | 14         | 0        | 6 C        |      | 8 4          | 5             | 7      | 2          | 5      | 51                | . 7      |          | {            | 38                | 8 '        | 7      | 16  | 0          |
| SA            | EENBRIER<br>RKEYS<br>18262137  | Р<br>N                | 1 L<br>1 0 0      | C 0 0     | 6        | ż o          | 2 -          | 1     | ר.<br>קי   | 71         |            | 19         | 9        | 21         | FY   | 8.4          | 5             | 7      | 1          | 1      | л 6               | 4 -      |          | 5            | 3 <b>8</b>        | <u>я</u> , | 7      | 16  |            |
|               | MBLE OIL   |                       |                   | ÇO        | Ŭ        |              | 2            |       |            |            |            |            |          |            |      | <u> </u>     |               |        | -          | -      | <b>.</b> .        | -        |          |              | 0                 | U          | '      | ±0  |            |
| FF            | HARDISO<br>24342137<br>72272137<br>4 STATE   | N                     | ∃<br>100<br>100   | ļ         | 15<br>34 | 61           | 7            |       | 6          | 83<br>87   | Ļ          | 2 8<br>8 2 | 71       | 8 6        |      | 8 4<br>8 4   | 5             | 7      | 1          | 7      | 24<br>07          | 3        |          |              | 3 8<br>3 8        | 8          | 7      | 16<br>16                                      | 0          |
| NN            | N STATE !  | s<br>N                | 100               |           | 9<br>1 2 |              |              |       | 4          | 572        | 2          |            |          |            | 1    |              |               | · [    |            |        |                   |          | _        |              |                   | •          | 7      |   | . 1        |
| HWWWE<br>NWWE | 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | Z Z                   | 1 0 ŏl            | . 1       | 8        | 70           | 9-1          |       | 14<br>90   | 411<br>694 | I I        | 133        | -4 (     | D 3        | EXT  |              | - 5           | 7      |            | 5<br>9 | 27                | 266      | -        | . 8          | 8 8<br>8 8<br>8 8 | 8:         |        | 16<br>16<br>16                                | 0          |
| NEV           | 3 0 2 2 2 3 7<br>V MEXICO<br>LK102137  | N<br>S<br>Z           |                   | E V       | 25       | 90<br>26     | - 1 - L      | 1     |            | 194<br>375 |            |            | 28<br>88 |            |      | 8 4<br>6 3   | Ŧ             | ·      |            |        | 5 5<br>T 0        |          |          |              | 38<br>56          |            | 7      | 16<br>12                                      | 6          |
| PFN           | NROSE<br>H132237<br>BB GAS U   | 1                     |                   |           | 46       |              |              |       |            | - • •      |            | 46         |          |            | - E  | 84           |               |        |            |        |                   | 3-       |          |              | 38                |            |        | 16  | /          |
| TUE<br>1      | 36 GAS U<br>0102137  | N I<br>N              | 00                |           | 29       |              |              |       | 9          | 115        | 5          | 20         |          |            |      | 84           | 5             | 7      |            |        | s 6               |          |          | ÷ .          | 88                |            |        | 16  |            |
|               | NT N B   | =                     |                   | : .       |          | te de<br>T   |              |       |            |            |            | •          |          |            |      |              |               |        | ,          |        | · .               | i e      |          |              |                   | • 43       |        | 1.  |            |
| 1             | G212137  |                       |                   |           | LO       | 8 9          | 2 -          | 1     | 6.2        | 271        | -          | 27         | 16       | 53         | EX   | 126          | 8             | 5      | 1          | 4      | 47                | 8 -      | •        | 13           | 33                | 3 1        | L      | 24  | 0          |
| MAF           | RKHAM EÚ   | BAN                   | DF                |           |          | <u> </u>     |              |       |            | ~          |            |            |          | ~ ~        |      | _            |               |        |            |        |                   |          |          |              |                   | _          |        | 1   |            |
| -             | 2L192137<br>Rán Óil  | 2 I                   |                   | 1         | L 3      | 20           |              | 1     |            | 717        |            | 4          | 4 5      | ץ ק<br>יי  | EX   | 8 4          | <b>ഉ</b><br>ം |        |            | 4 (    | 50                | U        |          | 3            | 88                | 87         | '  [   | 16  | Ö          |
| OWE           | E142137  |                       | 100               | . 1       | . 4      | 8 <b>8</b>   |              | 2     | 1!         | 5 5 2      |            | 6          | 6 6      | 5 7        | EX   | 84           |               | 7      |            | 1.     | 79                | 0        |          | ۰<br>۶       | 88<br>8           | :<br>8 7   |        | 16  |            |
| оні           | 0 01L C  |                       |                   |           |          | - 4<br>-<br> |              | . ~   | 57         |            |            |            |          |            |      |              |               |        |            |        | · · ·             |          |          | · · · · ·    |                   | - r        |        | ± 0   | 1          |
| ן ר<br>ו      | MUNCY<br>P242237   | IN                    | 100               |           | 3        | 77           | 6            | 2     | 72         | 5 2 8      | 5          | 23         | 4 5      | 5 2        | EX   | 84           | 5 '           | 7      | 1          | 4 9    | 9 9               | 5 -      |          | 3            | 8                 | 8 7        |        | 16  |            |

4) (A. 19)

| TUBB POOL B                         |                   | ASO SYSTEN                | м стр          |                         |              | EAR:1960            | PAGE: 23       | · · ·                                    |
|-------------------------------------|-------------------|---------------------------|----------------|-------------------------|--------------|---------------------|----------------|--|
|                                     | ACREAGE<br>FACTOR | F                         | FEBRUARY       |                         | MAF          |                     | APR,           | ACREAGE OR<br>DELIVERABILITY             |
|                                     |                   | BEGINNING NET ALLOWABLE ± | MCF PRODUCTION | OVER/UHDER PRODUCTION + |              | IDING NET ALLOWABLE | NEW ALLOCATION | 160                                      |
|                                     | 1100              | 11885                     | 15163          | 3278FX                  | 8457         | 5179                | 8887           | TOO                                      |
| BOYD                                |                   | RPÓRATED                  |                |                         |              |                     | 0007           | 160                                      |
| S E CONE                            | 1200              | 9245                      | 12318          | 3073FX                  | 8457         | 5384                | 8887           |  |
| 1 J 2 6 2 1 3 7 N<br>OWENS          | 50                | 22839-                    | 18333          | P041172FX               | 4228         | 36944-              | 4444           | 80                                       |
|                                     | 1200              | 4054                      | 10107          | 6053EX                  | 8457         | 2404                | 8887           | 160                                      |
|                                     | 1 P O O           | 24253                     | 7712           | 16541                   | 8457         | 24998               | 8887           | 160                                      |
| PHILLIPS PET                        | · co              |                           |                |                         |              |                     |                |  |
|                                     | 1200              | 830                       | 4433           | 3603EX                  | 8457         | 4854                | 8887           | 160                                      |
| SAMEDAN OIL<br>PARKS                | COR               | 5                         |                |                         |              |                     |                |  |
|                                     | 1200              | 18789-                    |                | 18789EX                 | 8457         | 10332-              | 8887           | 160                                      |
|                                     | 1200              | 548-                      | 6657           | 7205FX                  | 8457         | 1252                | 8887           | 160                                      |
| SHELL OIL CO                        |                   |                           |                | • • •                   |              |                     |                |  |
| 1M152137 N<br>ARGO A                | 100               | 41937-                    | 2740           | 44677EX                 | 8457         | 36220-              | 8887           | 160                                      |
|                                     | 100               | 7062-                     | 25899          | 32961EX                 | 8457         | 24504-              | 8887           | 160                                      |
|                                     | 100               | 52116-                    | 1551           | 053667EX                | 8457         | 45210-              | 8887           | 160                                      |
|                                     | 100               | 21563-                    | 6726           | 28289EX                 | 8457         | 19832-              | 8887           | 160                                      |
|                                     | 100               | 18630-                    | 17682          | 36312EX                 | 8457         | 27855-              | 8887           | 160                                      |
| 1G152137 N                          | 50                | 8555                      | 2776           | 5779                    | 4228         | 10007               | 4444           | 80                                       |
|                                     | 100               | 29102                     | 4522           | 24580                   | 8457         | 33037               | 8887           | 160                                      |
| 2L222137 N                          | 100               | 27229-                    | 3620<br>3333   | 30849FX<br>4128FX       | 8457<br>8457 | 22392-<br>4329      | 8887<br>8887   | $\begin{array}{c} 160\\ 160 \end{array}$ |
| SINCLAIR OIL                        | ĊO                |                           |                |                         |              | 4525                | 0007           | 100                                      |
| IS J SARKEYS                        | 100               | 35407-                    | 2920           | 38327EX                 | 8457         | 29870-              | 8887           | 160                                      |
| TURNER GAS U                        | NIT<br>100        | 20138                     | 2393           | 17745                   | 8457         | 26202               |                |  |
|                                     | DNT               |                           |                |                         |              |                     | 8887           | 160                                      |
| WALTER LYNCH                        | 100               | 13517-                    | 1143           | 14660EX                 | 8457         | 6203-               |                | 1.1                                      |
| E VA OWENS<br>10 32237 N            | 1                 | 7152-                     | 9195           | 16347EX                 | 4 1 4 4      |                     | 8887           | 16                                       |
|                                     |                   |                           |                |                         | 4 1 4 4      | 12203-              | 4355           | 79                                       |
| PERCY HARDY                         |                   | 3                         | 744            |                         | 8508         | 9 5 0 9             |                | 1  |
| 20172137 M<br>SARKEYS<br>4F262137 N | 1. 1.             | 744                       | 9948           | 3998                    |              | 8508                | 8508           | 120                                      |
| ISTATE Q                            | 100               | 13946                     |                |                         | 8457         | 12455               | 8887           | 160                                      |
| IN362137 N<br>STATE S               |                   | 34233-                    | 1224           | 35457EX                 | 6343         | 29114 -             | 6665           | 120                                      |
| D A WILLIAMS                        |                   | 25023-                    | 4210           | 29233EX                 | 8457         | 20776-              | 8887           | 160                                      |
|                                     | 100               | 20710                     | 8349           | 12361                   | 8457         | 20818               | 8887           | 160                                      |
| DRINKARD                            | FIEL              |                           |                | 7170                    | <b>.</b>     |                     |                |  |
| 11302238 N                          | 100               | 30613-                    | 713            | 3132651                 | 8457         | 22869-1             | 8887           | 160                                      |

and the second second

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|                 | <u>o o</u><br>10n   | L   |  | ACREAGE  | L  | L <b>b</b>   |  |  | FEB   | 1 <del>1</del>  | JA   | řΥΥ   |   |  |   | _   |  |   |  |   |  |  |  |   |   |  | 1 4  |   | 53   | •  | 3 1  | ACREAGE (<br>DELIVEPABI  |
|-----------------|---|---|--|--|--|--|--|--|---|---|--|---|---|--|---|---|--|---|--|---|--|--|--|---|---|--|--|---|--|--|--|--|
|                 |   |   |  | VACTON   | BEGINN   |  |  | 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -  |   | PROD  | UCTIC  | N   | OVER  |  |   |   |  | CURRE   | NT AL  | LOWA  | BLE  | ENDING   | NET  | ALLO  | WAR   | LE CT  | N  | EW AL   |  |  |  |  |
| 30<br>325<br>21 | 222<br>222<br>222   | 38<br>37  | N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  | 10Ō  |  | 7<br>5<br>7  | 31<br>68<br>37   | 182<br>56-   | 4   |   | 4 O  | 63  | 4   | 70<br>52<br>96   | 278   | 5<br>83   | 0<br>9<br>5 FX   | 4   | 8<br>8<br>4 4  | 4   | 57<br>57<br>67   |  | 78<br>55   | 37<br>12<br>7<br>7  | 0<br>4<br>6   | 7<br>6<br>8 -  |  | 16  | 88<br>85   | 88<br>88<br>99<br>99   | 37   | 16<br>16   |
| ۱L              | 01  | L_  | co   | МРА  | NY   | р  | q I  | ELI  | NE  | s١  | rs   | ΤE  | м   |  |   |   |  |   |  |   |  |  |  |   |   |  |  |   |  |  |  | -  |
|                 |   | OB  |  | 01   |  | 010  | 4 P  | ÁNY  | IN  | СС  | R  | PO  | RA  | ТЕ   | D   |   |  |   |  |   |  |  |  |   |   |  |  |   |  |  |  |  |
| = 33            | 21<br>21  | 37  | NN   | 75   |  | 1 0<br>4 8<br>3 1                                      | 69<br>33<br>14   | 73<br>97-<br>24-   |   | 1   | 4  | 66  | Þo  | 49   | 8 (   | 6   | 3 FX   |   | 8<br>6<br>1 4  | 4<br>3<br>8   | 57<br>43<br>00   |  | 4  | 2 2<br>3 5<br>5 7   | 729   | 1 -<br>0 -<br>1 -  |  | 1   | 8<br>6<br>5  | 8 8<br>6 6<br>5 5  | 37<br>55<br>25<br>25   | 16<br>12   |
| 1   A           | N   | BA  | s I  | V P  | 1 12 6   | ιĽ   | IN   | E S  | YST   | EN  | 1  |   |   |  |   |   | -  |   | -  |   |  |  |  |   |   |  |  |   |  |  |  |  |
| RAD             | A   | PE  | TR   | оLе  | UМ   |  |  |  |   |   |  |   |   |  |   |   |  |   |  |   |  |  |  |   |   |  |  |   |  |  |  |  |
| 10              | 22  | 37  | Ń  | 50   |  | 1 '  | 71   | 14   |   | 3   | 31   | 32  |   | 13   | 39  | 8   | S  |   | 4  | 2   | 28   |  | 1. 8   | 3 S   | 1   | 0  |  |   | 4  | 44   | 14   | . 8  |
| 4               | 22  | 37  | Ń  | 100  |  | S i  | 51   | 5 Q  |   |   | 5  | 21  |   | 24   | 6   | 2 !   | 9  |   | 8  | 4   | 57   |  | 3 :  | 30  | 8   | 6  |  |   | 8 8  | 8 8  | 37   | 16   |
| 133             |   |   | N  | 100  |  | 31   | 78   | 28   |   | 8   | 8 8  | 58  | -   | 28   | 9   | 7 (   | o  |   | 8  | 4   | 57   |  | 37   | 74  | 2   | 7  |  |   | 8  | 8 8  | 37   | 16   |
| 116<br>E        | 21  | 37<br>B   | Ň  | 100  |  | 4 !  | 57   | 55   |   | 1 C   | > 3  | 09  |   |  |   |   | ·  |   | 8  | 4   | 57   |  | 4 3  | 39  | 0   | 3  | _  |   | 8 8  | 8 8  | 37   | 16   |
| 732:<br>00D     | 21  | 37  | Ň  | 50   | -  | 22   | 2 4  | 38   |   |   |  |   |   | 14   | 2   | 2 1   | 4  |   | 4  | 2   | 28   |  |  |   |   |  | 1  |   | 4 4  | 44   | 4  | 8  |
| 22              | 5 5   | 37  | Ń  | 100  |  | 4 9  | 7 1  | 2 5  |   | 5   | 59   | 60  |   | 43   | 51  | 6 !   | 5  |   | 8  | 4   | 5 7  | 9  | 51   | . 6   | 2   | 2  | <i>n</i>   |   | 88   | 3 8  | 37   | 16   |
| 1501            | SI<br>V   | E R<br>C  |  |  |  |  |  |  |   |   |  |   |   |  |   |   |  |   |  |   |  |  | -  |   |   |  |  |   |  |  |  | ,  |
| 1               |   |   |  |  |  |  |  |  |   |   |  |   |   |  |   |   | I  |   |  |   |  |  |  |   |   |  |  |   |  |  | 1  | 16   |
| 135<br>E        | 21  | 37  | N  |  |  |  |  |  |   |   |  |   |   |  |   |   | I  |   |  |   |  |  |  |   |   |  |  |   |  |  |  | 16   |
|                 |   | 5   |  |  |  | 41   | 10   | 52   |   | 6   | 7  | 16  |   | 34   | 3   | 3 (   | 5  |   | 8  | 4   | <b>5</b> 7   | 4  | 4. 2   | 27  | 9   | 3  |  |   | 8 6  | 3 8  | 7  | 16   |
| H               | a U   | ETL   | ROER   | -EU  | M  |  |  |  |   |   |  | - 1   |   |  |   | _   |  |   |  |   |  | 1.<br>1.   |  | _   |   | ,  |  |   |  |  |  | · •  |
| 181             | 22  | 38<br>38  | ZZ   |  | 1  | $\frac{1}{3}\frac{9}{4}$                               | 15   | 80<br>96   |   | 10  | 2  | 54<br>38  | 1   | 1324   | 3   | 2658  | 3  |   | 4<br>8   | <del>4</del>  | 28<br>57   | 1  | 32   | 8   | 5<br>1  | 4<br>5   |  |   | 88   | + 4<br>3 8   | 47   | 16<br>16   |
| in A.           |   |   | •  |  |  |  |  |  |   |   |  |   |   |  |   |   |  |   |  |   |  |  |  |   |   |  | Í  |   |  |  |  |  |
| 25              | S S   | 37  | N  | 100  | .".  | 3 Z  | 33   | 27   |   | 9   | 8  | 90  |   | 23   | 4   | 3 7   | 7  |   | 8  | 4 !   | 57   |  | 31   | . 8   | 9   | 4  |  |   | 88   | 3 8  | 7  | 16   |
| 32              | 22  | 38  | Ň  |  |  | 32   | 3  | 4 4  |   | 8   | 7  | 30  |   | 23   | 6   |   | ļ  |   | 8  | 4   | 57   |  | 32   | 0   | 7<br>∡  | 1  |  |   | 88   | 8 8  | 7  | 16<br>16   |
| CÃP             | ₹Ŝά<br>21'  |   | Â  |  |  |  |  |  | 1   |   |  |   |   |  |   |   |  |   |  |   | 1  |  |  |   |   |  |  |   |  |  | 1  | 16   |
| ČĂ<br>28        | 25<br>21  | ğ Ņ   | C<br>N   |  |  |  |  |  |   |   |  | .   | Ę   |  |   |   |  |   |  | . 4 t.  | 1  |  |  |   |   |  |  | 1   | 1  |  | . 1  | 12   |
| LAC             |   |   |  |  |  |  |  | •  |   |   |  |   |   |  |   |   | 1  |   |  |   |  |  |  |   |   |  |  |   |  | - d <sup>1</sup> -   |  | 1/6  |
|                 | 22  | 37  | - 21   |  |  |  |  |  |   |   |  |   |   |  |   |   |  |   |  |   | · ·  |  |  |   |   |  |  |   |  |  | - E  | Å  |
| NK<br>222       | 1.1   |   | 1. A.  |  |  |  |  |  |   |   |  |   |   |  |   |   | 1 A. 1   |   |  |   |  |  |  |   |   |  |  | 1.5   |  |  |  | 16   |
| CE<br>282       | 21:   | 1 N<br>3 7  | N  | 100  |  |  | •  | · ·  | -   | ιo  | 8  | 13  |   |  |   |   |  |   | 8  | 4   | 57   |  |  |   | . 0   |  |  |   |  |  |  | f  |
| 282<br>AN       |   | 11 1  |  |  |  |  | . 1  |  |   | 5   | 4  | 69  |   |  |   |   |  |   |  |   | 1  |  |  |   |   |  |  |   |  | i î  |  | 1  |
| AN              | BL  | _ T)  |  |  |  |  |  |  |   |   |  |   |   |  |   |   | · 1  |   |  |   |  |  |  |   |   |  |  |   |  |  |  | 16   |
| 192             | :2:   | 3 8   |  | 00   |  | 39   | 2:   | 19   |   | 6   | 9  | 85  |   | 32   | 2 :   | 5 4   |  |   | 8  | 4 :   | 57   | 4  | t O  |   | 9<br>2  |  |  | ;   | 88   | 8  | 7  | 116  |
|                 | SCRIPT 051 YA381 A DAOR4 3 6 202 SO3 5 2 X 88 0A522248484843 OK2E882929 | ESCRIPTION 222E I MOIILE EAGA 101 1 2 0 2 1 2 000 2 2 2 2 2 2 2 2 2 2 | BZCRIPTION       337       BZ777       A E 7X7 7A7 7 7 R 7 7 8 T L888 0 7 W 888 X 7 Z 7 7 7 7 7 7 8 T 8         S33       L 00333       B PR3A3 3 3 8 3 3 E C 3 3 3 E T 1888 0 7 W 888 X 7 Z 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | ESCRIPTION $\begin{array}{c} RTM \\ NZO \\ O \\ L \\ ZO \\ ZO \\ ZO \\ ZO \\ ZO \\ ZO$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | ESCRIPTION       RATE       ACCORD       RATE       ACCORD       REGIMANNEAR         325       N </td <td>ESCRIPTION       RATE       ACCENT TALLO       RECENTING METALLO         <math>N_{2}^{2}</math> <math>N_{1}^{2}</math> <math>N_{2}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>325</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>325</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>222</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math> <math>222</math> <math>N_{1}^{2}</math> <math>N_{1}^{2}</math></td> <td>ESCRIPTION       Interview       Interview       Interview         30222337       N100       73118         3252237       TO       TAL       73756         100       TAL       73756         100       TAL       73756         1100       TAL       73756         1100       TAL       73756         1100       COMPANY       PIPELI         1100       COMPANY       PIPELI         1100       COMPANY       16977         1100       16977       31424         1100       16977       31424         1100       16977       31424         1100       100       25150         1100       25150       17114         1100       25150       37828         1100       45755         1100       45755         1100       45755         1100       459125         1100       30954         1100       134596         1118       146238         1100       33327         1100       33327         1100       33327         1100       33327         <t< td=""><td>ESCRIPTION         mark         Accoss         Interval         FEE           325522222         N         N         000         <math>73118</math>         8           325522222         N         N         000         <math>73118</math>         8           3252222         N         N         000         <math>73756-</math>         4           32522222         N         N         N         P         P         P         N           32522222         N         N         N         P         P         P         N         N           32522222         N         N         N         P         P         P         N         N         N           32522222         N         N         N         P         P         P         N         N         N           3262137         N         100         16973-         N</td><td>ESCRIPTION         mm         Accurate<br/>Accurate         FEEDRAL           11000         73 1188         73 1188         73 1188         7400           3000         73 756         42         42           3000         73 756         42           11000         73 756         42           3000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 1188         7           11000         16977         25           11000         16977         25           11000         16977         25           11000         17114         3           11000         25150         17           11000         37828         8           11000         45755         10           11000         45755         10           11000         449125         5           12137         100         449125           1322237         100         32322437           12237         1</td><td>ESCRIPTION         mm         Accord         FEEDRUA           3022233         387         7         7         3756         4230           3022233         70         TO         TAL         73118         28           3022233         7         TO         TAL         73756         4230           1000         73756         4230         4230           1001         COMPANY         INCOR         4230           100232233         TO         100         16973         277           1100         146973         277         14         31           1002332137         TO         TAL         314224         291           1100         25150         5         103         314224         291           1100         25150         5         103         32023         22438         82           1100         45755         103         30954         6</td><td>ESCRIPTION         mark Attract         FEELH QARY           3022337         N100         73118         2867           3022337         TOTAL         73756         423079           1000         73756         423079           1100         73756         423079           1100         73756         423079           1100         16973         27701           1100         16973         27701           1211         01         COMPANY         INCORPO           1000         16973         27701           1211         01         COMPANY         INCORPO           1225         100         16973         27701           1211         01         COMPANY         INCORPO           12322137         N         100         15975           1211         N         BASIN         PIPELINE         SYSTEM           1002422337         N100         25150         521           3322137         N100         45755         10309           100232237         N100         45755         10309           1332207         N100         30954         6221           135207         N100</td><td>FEECRIPTION         FEELR UANY           TOTAL         FEELR UANY           SO 2 2 3 3         N 1000         7 3 1 1 8         2 8 6 6           A 0 0 0         7 3 7 5 6 -         4 2 3 0 7 9         4           COLSPAN         COLSPAN         COLSPAN         COLSPAN           A 0 0         7 3 7 5 6 -         4 2 3 0 7 9         4           COLSPAN         COLSPAN         COLSPAN         COLSPAN           A 0 0         COLSPAN         COLSPAN           COLSPAN         COLSPAN           COLSPAN         COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN           COLSPAN            N 10 0     <td>ESCRIPTION         mm         Access         FEE H UANY         Access         FEE H UANY         Access           3022337         N100         73118         423079         496           3252237         TOTAL         73756         423079         496           3252237         TOTAL         73756         423079         496           3252237         TOTAL         73756         423079         496           3252237         N100         16973         27701         106           332137         N100         16973         27701         166           332137         N100         16973         27701         66           332137         N 75         48397-         1466         66           332137         N 50         17114         3132         13           332137         N 50         17114         3132         13           332137         N 100         25150         521         24           342237         N 100         45755         10309         35           352237         N 100         49125         5960         43           252237         N100         49125         5960         34</td><td>FEENDARYFEENDARYFEENDARYTOTAL3022338N1007375642868Colspan="2"&gt;Colspan="2"&gt;Colspan="2"SOLE IN CONPANYIN CONPANYFEENDARYTOTAL7375642868700CONPANYIN CORPOCONPANYIN CONPANYIN CONPANYIN CORPOCONPANYIN CONPANYIN CONPANY</td><td>FERRIPTIONFEEN UANYFEEN UANYSO2238N10073756302238N10073756A 2079A 2668TOTALNETONOL 73756A 2079A 2668TOTALCOMPANYINCORPORATEDNONY MODANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANY&lt;</td><td>ESCRIPTION         Main Matter<br/>Autor         FEE HY UARY           30022338         N1000         731118         28668         70250           3252237         N1000         73756         423079         4968352           1100         TOTAL         73756         423079         4968352           1100         TOTAL         73756         423079         4968352           1100         COMPANY         PIPELINE         SYSTEM           NY         MOBIL         01         COMPANY         INCORPORATED           1100         16973         2701         107285X           1210         TOTAL         31424         29167         605915X           1210         TOTAL         31424         29167         605915X           1210         TOTAL         31424         29167         605915X           1210         2517         N100         25150         521         24629           332137         N100         25150         521         24629         3524           122237         N100         45755         10309         35446         5911           1222237         N100         49125         5960         43165           <t< td=""><td>ESCRIPTION       nom       Attract<br/>Attract to the second s</td><td>BEGENPTION         Hom         Mathematical matrix and mat</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>ESCRIPTION       mm       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0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = </math></td><td>Inscription         Inscription         Inscription         FEELINDARY         FEELINGARY         MARY           30222338         N100         73118         2868         70250         8457           3022237         N100         73756-         423079         4968357         64444067           1000000000000000000000000000000000000</td><td>BEGENTTION         Imm         MART         Imm         MART         MART</td><td>Description         mm         MARM         FEED/AUARTY         MAFF         MAFF           30.22.33         NI00         73118         28668         70250         8457         767           31.1         28583237         TOTAL         73756         423079         496683         702750         8457         767           31.1         0.1</td><td>BSGEPTION         Imm         MART         Impact of lange of</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>SEGENTION         And Mint         PERMIT AND CONSTRAINT OF A CONSTRA</td><td>BEGENTION         International activity         PERCENTION         International activity         Internat</td><td>DECEMPTION         DETERMINATION         DEPENDENT OF ALL         DEPENDENT OF ALL</td><td>DECREMINATION         DECREMINATION         FEEDRUGATION         DECREMINATION         DECREMINA</td><td>BEGENTION         MMM         FEED NOANY         MARY         APRA         APRA         APRA           3022338         NL00         73118         28688         70250         4457         76707         68887           3022337         NL00         73118         28688         70250         444007         527627         76707         68887           3022337         NL00         737962         423073         4968352         444007         52768         4657         52768         4657         64774         68887           NY         N0611         01         COMPANY         INCORPORATED         8457         62771         68887         666537         62527         62677         22711         8887         666537         62527         62637         425701         15552           41AN         BASIN         PIPELINE<system< td="">         1072857         8457         33086         8887         8887         33088         8887         33088         8887           202237         N 100         25150         521         24629         8457         37427         8887           322137         N 100         25150         521         24629         8457         33088         8887</system<></td></t<></td></td></t<></td> | ESCRIPTION       RATE       ACCENT TALLO       RECENTING METALLO $N_{2}^{2}$ $N_{1}^{2}$ $N_{2}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $325$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $325$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $222$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $N_{1}^{2}$ $222$ $N_{1}^{2}$ | ESCRIPTION       Interview       Interview       Interview         30222337       N100       73118         3252237       TO       TAL       73756         100       TAL       73756         100       TAL       73756         1100       TAL       73756         1100       TAL       73756         1100       COMPANY       PIPELI         1100       COMPANY       PIPELI         1100       COMPANY       16977         1100       16977       31424         1100       16977       31424         1100       16977       31424         1100       100       25150         1100       25150       17114         1100       25150       37828         1100       45755         1100       45755         1100       45755         1100       459125         1100       30954         1100       134596         1118       146238         1100       33327         1100       33327         1100       33327         1100       33327 <t< td=""><td>ESCRIPTION         mark         Accoss         Interval         FEE           325522222         N         N         000         <math>73118</math>         8           325522222         N         N         000         <math>73118</math>         8           3252222         N         N         000         <math>73756-</math>         4           32522222         N         N         N         P         P         P         N           32522222         N         N         N         P         P         P         N         N           32522222         N         N         N         P         P         P         N         N         N           32522222         N         N         N         P         P         P         N         N         N           3262137         N         100         16973-         N</td><td>ESCRIPTION         mm         Accurate<br/>Accurate         FEEDRAL           11000         73 1188         73 1188         73 1188         7400           3000         73 756         42         42           3000         73 756         42           11000         73 756         42           3000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 1188         7           11000         16977         25           11000         16977         25           11000         16977         25           11000         17114         3           11000         25150         17           11000         37828         8           11000         45755         10           11000         45755         10           11000         449125         5           12137         100         449125           1322237         100         32322437           12237         1</td><td>ESCRIPTION         mm         Accord         FEEDRUA           3022233         387         7         7         3756         4230           3022233         70         TO         TAL         73118         28           3022233         7         TO         TAL         73756         4230           1000         73756         4230         4230           1001         COMPANY         INCOR         4230           100232233         TO         100         16973         277           1100         146973         277         14         31           1002332137         TO         TAL         314224         291           1100         25150         5         103         314224         291           1100         25150         5         103         32023         22438         82           1100         45755         103         30954         6</td><td>ESCRIPTION         mark Attract         FEELH QARY           3022337         N100         73118         2867           3022337         TOTAL         73756         423079           1000         73756         423079           1100         73756         423079           1100         73756         423079           1100         16973         27701           1100         16973         27701           1211         01         COMPANY         INCORPO           1000         16973         27701           1211         01         COMPANY         INCORPO           1225         100         16973         27701           1211         01         COMPANY         INCORPO           12322137         N         100         15975           1211         N         BASIN         PIPELINE         SYSTEM           1002422337         N100         25150         521           3322137         N100         45755         10309           100232237         N100         45755         10309           1332207         N100         30954         6221           135207         N100</td><td>FEECRIPTION         FEELR UANY           TOTAL         FEELR UANY           SO 2 2 3 3         N 1000         7 3 1 1 8         2 8 6 6           A 0 0 0         7 3 7 5 6 -         4 2 3 0 7 9         4           COLSPAN         COLSPAN         COLSPAN         COLSPAN         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          332137         N100         16973         27701         66           332137         N 75         48397-         1466         66           332137         N 50         17114         3132         13           332137         N 50         17114         3132         13           332137         N 100         25150         521         24           342237         N 100         45755         10309         35           352237         N 100         49125         5960         43           252237         N100         49125         5960         34</td><td>FEENDARYFEENDARYFEENDARYTOTAL3022338N1007375642868Colspan="2"&gt;Colspan="2"&gt;Colspan="2"SOLE IN CONPANYIN CONPANYFEENDARYTOTAL7375642868700CONPANYIN CORPOCONPANYIN CONPANYIN CONPANYIN CORPOCONPANYIN CONPANYIN CONPANY</td><td>FERRIPTIONFEEN UANYFEEN UANYSO2238N10073756302238N10073756A 2079A 2668TOTALNETONOL 73756A 2079A 2668TOTALCOMPANYINCORPORATEDNONY 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MARY           30222338         N100         73118         2868         70250         8457           3022237         N100         73756-         423079         4968357         64444067           1000000000000000000000000000000000000</td><td>BEGENTTION         Imm         MART         Imm         MART         MART</td><td>Description         mm         MARM         FEED/AUARTY         MAFF         MAFF           30.22.33         NI00         73118         28668         70250         8457         767           31.1         28583237         TOTAL         73756         423079         496683         702750         8457         767           31.1         0.1</td><td>BSGEPTION         Imm         MART         Impact of lange of</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>SEGENTION         And Mint         PERMIT AND CONSTRAINT OF A CONSTRA</td><td>BEGENTION         International activity         PERCENTION         International activity         Internat</td><td>DECEMPTION         DETERMINATION         DEPENDENT OF ALL         DEPENDENT OF ALL</td><td>DECREMINATION         DECREMINATION         FEEDRUGATION         DECREMINATION         DECREMINA</td><td>BEGENTION         MMM         FEED NOANY         MARY         APRA         APRA         APRA           3022338         NL00         73118         28688         70250         4457         76707         68887           3022337         NL00         73118         28688         70250         444007         527627         76707         68887           3022337         NL00         737962         423073         4968352         444007         52768         4657         52768         4657         64774         68887           NY         N0611         01         COMPANY         INCORPORATED         8457         62771         68887         666537         62527         62677         22711         8887         666537         62527         62637         425701         15552           41AN         BASIN         PIPELINE<system< td="">         1072857         8457         33086         8887         8887         33088         8887         33088         8887           202237         N 100         25150         521         24629         8457         37427         8887           322137         N 100         25150         521         24629         8457         33088         8887</system<></td></t<></td></td></t<> | ESCRIPTION         mark         Accoss         Interval         FEE           325522222         N         N         000 $73118$ 8           325522222         N         N         000 $73118$ 8           3252222         N         N         000 $73756-$ 4           32522222         N         N         N         P         P         P         N           32522222         N         N         N         P         P         P         N         N           32522222         N         N         N         P         P         P         N         N         N           32522222         N         N         N         P         P         P         N         N         N           3262137         N         100         16973-         N | ESCRIPTION         mm         Accurate<br>Accurate         FEEDRAL           11000         73 1188         73 1188         73 1188         7400           3000         73 756         42         42           3000         73 756         42           11000         73 756         42           3000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 756         42           11000         73 1188         7           11000         16977         25           11000         16977         25           11000         16977         25           11000         17114         3           11000         25150         17           11000         37828         8           11000         45755         10           11000         45755         10           11000         449125         5           12137         100         449125           1322237         100         32322437           12237         1 | ESCRIPTION         mm         Accord         FEEDRUA           3022233         387         7         7         3756         4230           3022233         70         TO         TAL         73118         28           3022233         7         TO         TAL         73756         4230           1000         73756         4230         4230           1001         COMPANY         INCOR         4230           100232233         TO         100         16973         277           1100         146973         277         14         31           1002332137         TO         TAL         314224         291           1100         25150         5         103         314224         291           1100         25150         5         103         32023         22438         82           1100         45755         103         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    3252237         TOTAL         73756         423079         496           3252237         TOTAL         73756         423079         496           3252237         TOTAL         73756         423079         496           3252237         N100         16973         27701         106           332137         N100         16973         27701         166           332137         N100         16973         27701         66           332137         N 75         48397-         1466         66           332137         N 50         17114         3132         13           332137         N 50         17114         3132         13           332137         N 100         25150         521         24           342237         N 100         45755         10309         35           352237         N 100         49125         5960         43           252237         N100         49125         5960         34</td> <td>FEENDARYFEENDARYFEENDARYTOTAL3022338N1007375642868Colspan="2"&gt;Colspan="2"&gt;Colspan="2"SOLE IN CONPANYIN CONPANYFEENDARYTOTAL7375642868700CONPANYIN CORPOCONPANYIN CONPANYIN CONPANYIN CORPOCONPANYIN CONPANYIN CONPANY</td> <td>FERRIPTIONFEEN UANYFEEN UANYSO2238N10073756302238N10073756A 2079A 2668TOTALNETONOL 73756A 2079A 2668TOTALCOMPANYINCORPORATEDNONY MODANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANYINCORPORATEDCOMPANY&lt;</td> <td>ESCRIPTION         Main Matter<br/>Autor         FEE HY UARY           30022338         N1000         731118         28668         70250           3252237         N1000         73756         423079         4968352           1100         TOTAL         73756         423079         4968352           1100         TOTAL         73756         423079         4968352           1100         COMPANY         PIPELINE         SYSTEM           NY         MOBIL         01         COMPANY         INCORPORATED           1100         16973         2701         107285X           1210         TOTAL         31424         29167         605915X           1210         TOTAL         31424         29167         605915X           1210         TOTAL         31424         29167         605915X           1210         2517         N100         25150         521         24629           332137         N100         25150         521         24629         3524           122237         N100         45755         10309         35446         5911           1222237         N100         49125         5960         43165           <t< td=""><td>ESCRIPTION       nom       Attract<br/>Attract to the second s</td><td>BEGENPTION         Hom         Mathematical matrix and mat</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>ESCRIPTION       mm       Matrix<br/>Intermetation (<math>1 = 1 = 0 = 0</math>)       FEED H UAILY<br/>Modelines (<math>1 = 0 = 0 = 0</math>)       FEED H UAILY<br/>Modelines (<math>1 = 0 = 0 = 0 = 0</math>)       FEED H UAILY<br/>Modelines (<math>1 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0</math>)       State<br/>(<math>1 = 0 = 0 = 0 = 0 = 0</math>)       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       8457         767           31.1         0.1</td><td>BSGEPTION         Imm         MART         Impact of lange of</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>SEGENTION         And Mint         PERMIT AND CONSTRAINT OF A CONSTRA</td><td>BEGENTION         International activity         PERCENTION         International activity         Internat</td><td>DECEMPTION         DETERMINATION         DEPENDENT OF ALL         DEPENDENT OF ALL</td><td>DECREMINATION         DECREMINATION         FEEDRUGATION         DECREMINATION         DECREMINA</td><td>BEGENTION         MMM         FEED NOANY         MARY         APRA         APRA         APRA           3022338         NL00         73118         28688         70250         4457         76707         68887           3022337         NL00         73118         28688         70250         444007         527627         76707         68887           3022337         NL00         737962         423073         4968352         444007         52768         4657         52768         4657         64774         68887           NY         N0611         01         COMPANY         INCORPORATED         8457         62771         68887         666537         62527         62677         22711         8887         666537         62527         62637         425701         15552           41AN         BASIN         PIPELINE<system< td="">         1072857         8457         33086         8887         8887         33088         8887         33088         8887           202237         N 100         25150         521         24629         8457         37427         8887           322137         N 100         25150         521         24629         8457         33088         8887</system<></td></t<></td> | ESCRIPTION         mm         Access         FEE H UANY         Access         FEE H UANY         Access           3022337         N100         73118         423079         496           3252237         TOTAL         73756         423079         496           3252237         TOTAL         73756         423079         496           3252237         TOTAL         73756         423079         496           3252237         N100         16973         27701         106           332137         N100         16973         27701         166           332137         N100         16973         27701         66           332137         N 75         48397-         1466         66           332137         N 50         17114         3132         13           332137         N 50         17114         3132         13           332137         N 100         25150         521         24           342237         N 100         45755         10309         35           352237         N 100         49125         5960         43           252237         N100         49125         5960         34 | FEENDARYFEENDARYFEENDARYTOTAL3022338N1007375642868Colspan="2">Colspan="2">Colspan="2"SOLE IN 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   PIPELINE         SYSTEM           NY         MOBIL         01         COMPANY         INCORPORATED           1100         16973         2701         107285X           1210         TOTAL         31424         29167         605915X           1210         TOTAL         31424         29167         605915X           1210         TOTAL         31424         29167         605915X           1210         2517         N100         25150         521         24629           332137         N100         25150         521         24629         3524           122237         N100         45755         10309         35446         5911           1222237         N100         49125         5960         43165 <t< td=""><td>ESCRIPTION       nom       Attract<br/>Attract to the second s</td><td>BEGENPTION         Hom         Mathematical matrix and mat</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>ESCRIPTION       mm       Matrix<br/>Intermetation 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display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>SEGENTION         And Mint         PERMIT AND CONSTRAINT OF A CONSTRA</td><td>BEGENTION         International activity         PERCENTION         International activity         Internat</td><td>DECEMPTION         DETERMINATION         DEPENDENT OF ALL         DEPENDENT OF ALL</td><td>DECREMINATION         DECREMINATION         FEEDRUGATION         DECREMINATION         DECREMINA</td><td>BEGENTION         MMM         FEED NOANY         MARY         APRA         APRA         APRA           3022338         NL00         73118         28688         70250         4457         76707         68887           3022337         NL00         73118         28688         70250         444007         527627         76707         68887           3022337         NL00         737962         423073         4968352         444007         52768         4657         52768         4657         64774         68887           NY         N0611         01         COMPANY         INCORPORATED         8457         62771         68887         666537         62527         62677         22711         8887         666537         62527         62637         425701         15552           41AN         BASIN         PIPELINE<system< td="">         1072857         8457         33086         8887         8887         33088         8887         33088         8887           202237         N 100         25150         521         24629         8457         37427         8887           322137         N 100         25150         521         24629         8457         33088         8887</system<></td></t<> | ESCRIPTION       nom       Attract<br>Attract to the second s | BEGENPTION         Hom         Mathematical matrix and mat | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | ESCRIPTION       mm       Matrix<br>Intermetation ( $1 = 1 = 0 = 0$ )       FEED H UAILY<br>Modelines ( $1 = 0 = 0 = 0$ )       FEED H UAILY<br>Modelines ( $1 = 0 = 0 = 0 = 0$ )       FEED H UAILY<br>Modelines ( $1 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )       State<br>( $1 = 0 = 0 = 0 = 0$ )    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        MART         Imm         MART         MART | Description         mm         MARM         FEED/AUARTY         MAFF         MAFF           30.22.33         NI00         73118         28668         70250         8457         767           31.1         28583237         TOTAL         73756         423079         496683         702750         8457         767           31.1         0.1 | BSGEPTION         Imm         MART         Impact of lange of | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | SEGENTION         And Mint         PERMIT AND CONSTRAINT OF A CONSTRA | BEGENTION         International activity         PERCENTION         International activity         Internat | DECEMPTION         DETERMINATION         DEPENDENT OF ALL         DEPENDENT OF ALL | DECREMINATION         DECREMINATION         FEEDRUGATION         DECREMINATION         DECREMINA | BEGENTION         MMM         FEED NOANY         MARY         APRA         APRA         APRA           3022338         NL00         73118         28688         70250         4457         76707         68887           3022337         NL00         73118         28688         70250         444007         527627         76707         68887           3022337         NL00         737962         423073         4968352         444007         52768         4657         52768         4657         64774         68887           NY         N0611         01         COMPANY         INCORPORATED         8457         62771         68887         666537         62527         62677         22711         8887         666537         62527         62637         425701         15552           41AN         BASIN         PIPELINE <system< td="">         1072857         8457         33086         8887         8887         33088         8887         33088         8887           202237         N 100         25150         521         24629         8457         37427         8887           322137         N 100         25150         521         24629         8457         33088         8887</system<> |

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| DESCRIPTION   | STATUS                               | ACREAGE                |  | SYSTEM<br>FEBRUARY  |                                 |                                      | YEAR: 1960  | APR.  | ACREAGE O                        |
|---|--------------------------------------|------------------------|--|---|---------------------------------|--------------------------------------|---|---|----------------------------------|
|   |                                      | FACTOR                 | BEGINNING NET ALLOWAFLE ±                                    | NCF PRODUCTION  | OVER/UNDER PRODUCTION ±         | CURRENT ALLOWABLE                    | ENDING NET ALLOWABLE ±  | NEW ALLOCATION                                      |                                  |
| 70142237<br>AOMI KEEN   | Й<br>МЦ                              | 100                    | 37404  | 8668  | 28736                           | 8457                                 | 37193   | 8887  | 16                               |
| 20142137<br>LEONARD   | N                                    | 50<br>5 T              | 23009  | 7167  | 15842                           | 4228                                 | 20070   | 4444  | 8                                |
| 4A162137<br>RK  | Ń                                    | 1 Ó O                  | 12020  | 331   | 11689                           | 8457                                 | 20146   | 8887  | 16                               |
| 5A 32237<br>T MCCORM  |                                      | 100                    | 36055  | 7771  | 28284                           | 8457                                 | 36741   | 8887  | 16                               |
| 71322137<br>3A322137<br>JEN MARK  | Ň                                    |                        | $\begin{array}{r}1&3&1&1&4&6\\&3&3&0&6&3\end{array}$         | 6620<br>8368  | $124526 \\ 24695$               | 8457<br>8457                         | $132983 \\ 33152$   | 8887<br>8887  | 16     16                        |
| 5P342137  | Ņ                                    | 100                    | 34975  | 7895  | 27080                           | 8457                                 | 35537   | 8887  | 16                               |
| 58 12237  | N                                    | 100                    | 39891  | 3772  | 36119                           | 8457                                 | 44576   | 8887  | 16                               |
| JCE PADD<br>3P 12237<br>CARBOROUG   | ÍŃ                                   | 1001                   | 15688  | 616   | 15072                           | 8457                                 | 23529   | 8887  | 16                               |
| 2H312238<br>4F312238<br>E STEBBI  | Ň                                    | EST<br>100<br>100<br>B | 27082<br>29132   | 4538<br>3180  | 2 2 5 4 4<br>2 5 9 5 2          | 8457<br>8457                         | $31001 \\ 34409$  | 8 8 8 7<br>8 8 8 7                                  | 1e<br>1e                         |
| 3A 52237  | Ň,                                   | 50                     | 11430  | 244   | 11186                           | 4228                                 | 15414   | 4444  | 6                                |
| 1C302238<br>2G302238<br>TKINS   |                                      | 100                    | $   \begin{array}{c}     1 5461 \\     36982   \end{array} $ | 5866<br>10065   | 9595<br>26917                   | 8457<br>8457                         | $   \begin{array}{c}     1 & 8 & 0 & 5 & 2 \\     3 & 5 & 3 & 7 & 4   \end{array} $ | 8 8 8 7<br>8 8 8 7                                  | 1 <del>6</del><br>1 <del>6</del> |
| 10292238  | •                                    | 100                    | 69833  | 1082  | 68751                           | 8457                                 | 77208   | 8887  | 16                               |
| IO OIL C<br>NCH WALT<br>4D 12237<br>RSHALL B  | R                                    | 100                    | 43303  | 9895  | 33408                           | 8457                                 | 41865   | 8887  | 16                               |
| 2M272137<br>SEN U BU  | Ň                                    | Lgo                    | 27872  | 7279  | 20593                           | 8457                                 | 29050   | 8887  | 16                               |
| 11132237<br>EN  |                                      | i õ o                  | 6242   | 4152  | 2090                            | 8457                                 | 10547   | 8887  | 16                               |
| 3N352137  | Ň                                    | LOO                    | 37520  | 9585  | 27935                           | 8457                                 | 36392   | 8887  | 16                               |
| 31292137  | N                                    | 50                     | 13078  | 1240  | 11838                           | 4228                                 | 16066   | 4444  | ε                                |
| RLICK C<br>1J152137<br>U WORTHA   | N                                    | 100                    | 38588  | 5261  | 33327                           | 8457                                 | 41784   | 8887  | 16                               |
| 9E112237<br>11F11223<br>1F112237  |                                      | 200                    | 70780  | $   \begin{array}{r}     1 1076 \\     1 6778 \\     5702   \end{array} $ | 54002                           | 16914                                | 70916   | 17774   | 1632                             |
|   | AN                                   |                        | •- <sup>0</sup>  |   |                                 |                                      |   |   |                                  |
| A OWEN B  | Ņ                                    | 00                     | 35517  | 10518   | 24999                           | 8457                                 | 33456   | 8887  | 16                               |
| RI 3777<br>RN131777<br>RN1313777<br>A0940921413777<br>R0944 602020<br>R092777777777777777777777777777777777777  | 0 0 X X<br>Z ZHZ, ZZ, Z<br>HITHYHHYH | 000                    | 15139<br>13838   | 4 4 9<br>3 9 5  | 14690<br>13443                  | 8457<br>8457                         | 23147<br>21900  | 8887<br>8887  | A                                |
| 60162137  | <sup>2</sup> N                       | 00                     | 18600  | 459   | 18141                           | 8457                                 | 26598   | 8887  | 16                               |
| 80362137  | _Å                                   | 00                     | 40087  | 9534  | 30553                           | 8457                                 | 39010   | 8887  | 16                               |
| 60162137<br>ATE 01362137<br>ATE 504<br>ATE 504<br>ATE 504<br>ATE 504<br>BAER  | 3NF                                  | 00                     | 36542  | 11877   | 24665                           | 8457                                 | 33122   | 8887  | 116                              |
| RNER<br>3P292137  | Ň                                    | 50                     | 14568  | 382   | 14186                           | 4228                                 | 18414   | 4444  | 8                                |
| C DENRACE   | =  I                                 | ŅC                     |  | •   |                                 |                                      |   |   |                                  |
| N 1300<br>N 1000<br>N 1000<br>N 1000<br>N 1000<br>N 1000<br>N 1000<br>N 1000<br>N 1000<br>N 1000<br>N | 222                                  | 0000000                | 3746<br>37330<br>40362<br>34276                              | 311<br>1590<br>6462<br>8497   | 3435<br>25740<br>33900<br>25779 | 8457<br>8457<br>8457<br>8457<br>8457 | 11892<br>34197<br>42357<br>34236  | 8 8 8 7<br>8 8 8 7<br>8 8 8 7<br>8 8 8 7<br>8 8 8 7 | 16616                            |

| TUBB POOL PER                               | MIAN BASIN                   | SYSTEM CTD                             | YEAR:1.9 60                                     | PAGE: 26             | -                            |
|---|------------------------------|--|---|----------------------|------------------------------|
| DESCRIPTION STATES ACRE                     | AGE                          | FEBRUARY                               | MAR,  | APR.                 | ACREAGE OR<br>OLLIVERABILITY |
| FACT  | OR BEGINNING NET ALLOWABLE ± | MCF PRODUCTION OVER/UNDER PRODUCTION ± | CURRENT ALLOWASLE ENDING NET ALLOWABLE ±        | NEW ALLOCATION       | Oltiful Addition             |
| ROY G BARTON                                | 5 30747                      | 6953 23794                             | 6343 30137                                      | 6665                 | 120                          |
| J R CONE A<br>1M262137 N10                  |                              |  |   |                      |                              |
| ALEXANDER ROGE                              | 0 40735<br>RS                | 3922 36813                             | 8457 45270                                      | 8887                 | 160                          |
| 2A122237 N 5<br>STATE 367<br>3K362137 N10   | 0 3567                       | 1663 1904                              | 4228 6132                                       | 4444                 | 80                           |
| 3K362137 N10                                | 0 154835                     | 5390 149445                            | 8457 157902                                     | 8887                 | 160                          |
| SKELLY OIL CO<br>BAKER B                    |                              |  |   |                      |                              |
| 15J102237 N15                               | 0 60578                      | 11028 49550                            | 12685 62235                                     | 13331                | 240                          |
| STATE K<br>3C322137 N 5                     | 0 19098                      | 4371 14727                             | 4228 18955                                      | 4444                 | 80                           |
|   | IL COMPANY                   | INCORPORATED                           |   |                      |                              |
| BRUNSON ARGO<br>6E102237 N10                |                              | 3961 55011                             | 8457 63468                                      | 8887                 | 160                          |
| 2H332137 N 4                                | UNIT<br>9 17761              | 437 17324                              | 4144 21468                                      | 4 3 5 5              | 79                           |
| 7P332137 N10                                | 0 63063                      | 5463 57600                             | 8457 66057                                      | 8887                 | 160                          |
| ONG<br>81112237 N10                         | 0 14370                      | 27033 12563FX                          | 8457 4206-                                      | 8887                 | 160                          |
| 14232137 M 2                                | 5 924                        | 924                                    | 2786 2786                                       | 2786                 | 40                           |
| SUNRAY MID CON                              | Т                            |  |   |                      |                              |
| 2H212137 N 5                                | 0 10545                      | 423 10122                              | 4228 14350                                      | 4444                 | 8 0                          |
| - 1 NAM HARDY UN<br>1 A 2 9 2 1 3 7 N1 0    |                              | 3869 28209                             | 8457 36666                                      | 8887                 | 160                          |
| 5TATE LAND 15<br>49162137 N10               |                              | 4863 21620                             | 8457 30077                                      | 8887                 | 160                          |
| TEXACO                                      |                              |  |   |                      |                              |
| BLINEBRY NCT 1<br>10192238 N10              | 0 24062                      | 504 23558                              | 8457 32015                                      | 8887                 | 160                          |
| 3F292238 N10<br>7G192238 N10                | 0 36442                      | 11491 24951<br>5296 31401              | 8457 32015<br>8457 33408<br>8457 39858          | 8887<br>8887<br>8887 | 160                          |
| BLINEBRY NCT 3<br>10312238 N10              |                              | 11399 30427                            | 8457 38884                                      | 8887                 | 160                          |
|   | 016                          |  |   |                      | ±00                          |
| ALDEN<br>30152237 M10                       |                              | 4319                                   | 5051 5051                                       | 5051                 | 1                            |
|   |                              | 4 J 1 9                                | JOJ1 JOJ1                                       | 5051                 | 160                          |
| SULF STATE                                  | ELD                          |  | 9457 47610                                      |                      |                              |
|   |                              | 4042 39162                             | 8457 47619                                      | 8887                 | 160                          |
| DANGLADE LT                                 | ND INCORPO                   |  |   |                      | 1                            |
| ANGLADE LT<br>18242237 N 5<br>PIPELINE TOTA | 0 20206<br>L 2750687         | 829 19377<br>4928262257861             | 4228 23605<br>608194 2866055                    | 4444<br>638731       | 80                           |
|   |                              |  |   |                      |                              |
| ß   | ND GAS PIP                   |  |   |                      |                              |
| R L BRUNSON                                 | ND GAS COM                   |  |   |                      | ]                            |
| 1 42237 N 5<br>1 PELINE TOTA                | 0 15850<br>L 15850           | 2500 13350<br>2500 13350               | 4228         17578           4228         17578 | 4444<br>4444         | 80                           |
|   |                              |  |   | 4                    | 1                            |
|   |                              |  |   |                      |                              |

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| TUBB POOL   | WARRE   | N PET COM                 | PANY PIPELINE SY                       | STEM YEAR: 1960                          | PAGE: 27       |                              |
|---|---|---------------------------|--|--|----------------|------------------------------|
| DESCRIPTION   | STATES ACREAGE  |                           | FEBRUARY                               | MAR.                                     | APR.           | ACREAGE OR<br>DELIVERABILITY |
|   | FACTOR  | beginning net allowable ± | MCF PRODUCTION OVER/UNDER PRODUCTION ± | CURRENT ALLOWABLE ENDING NET ALLOWABLE ± | NEW ALLOCATION |                              |
| WARREN PET  | ROLEL   | M COMPANY                 | PIPELINE SYSTEM                        |  |                | 1                            |
| CITIES SER<br>BRUNSON B   | VICE  |                           |  |  |                |                              |
| 3M 32237  | MIOC  |                           |  |  |                | 160                          |
| RECOLE A  | PRP   |                           |  |  |                | 1.5.                         |
| 6B162237<br>PIPELINE  | TOTAL   |                           |  |  | 1177610        | 160                          |
| DOOL TOTAL  |   | 2703686                   | 9757231727963                          | 1079746 2807709                          | 1133610        |                              |
|   |   |                           |  |  |                |                              |
|   | TURAL   | GAS PIPE                  | LINE SYSTEM                            |  |                |                              |
| AMERADA PE<br>C C CAGLE<br>1D 32637   |   | 301738                    | 29548 272190                           | 53929 326119                             | 41050          | 2854                         |
|   | PRP   | 501750                    | 2 9 J 4 0 2 7 2 1 9 U                  |  | 41030          | ~~~                          |
| ARGO OLL C<br>LANEHART<br>1H212537  | 5 1   | 114258-                   | 2576 P116834 EX                        | 8721 108113-                             | 6642           | 447                          |
| ATLANTIC R  | EFINI   | NG                        |  |  |                | e<br>An geogra               |
| SELBY<br>1F332236<br>STATE 24   | N100  | 16818-                    | 6521 23339EX                           | 11518 11821-                             | 8770           | 816                          |
| 1N322437  |   | 6195-                     | 1111 7306EX                            | 2023 5283-                               | 1541           | 364                          |
| CLOSSON B   | VICE  |                           |  |  | 1.50.40        |                              |
| 11H302236<br>CLOSSON C<br>1A182236  | FFD   |                           | 15286 11646FX<br>11128 493649          | 22247 10601<br>65911 559560              | 16940<br>50169 | 764                          |
| 1A182236<br>31182236<br>DABBS   | NI 96   | 290505                    | 290202                                 | 57604 347806                             | 43847          | 3174                         |
| 1D232537  | Ň 50  |                           | Þ031237FX                              | 3007 28230-                              | 2291           | 90                           |
| 1F 22436<br>STATE H<br>2H172236   | N200<br>N100  |                           | 40827 66277<br>18871 33915EX           | 53701 119978<br>24691 9224-              | 40877<br>18795 | 2839<br>2554                 |
| STATE Q   | N BO  |                           | 4359 16330EX                           | 8010 8320-                               | a en la Talen  | 1409                         |
| 1L362336<br>STATE W<br>1P362436   | Ň125  | 5135                      | 14966 9831EX                           | 17906 8075                               | 13633          | 118                          |
| STATE W<br>1P362436<br>THOMAS<br>10192437<br>2G192437   | N100  | 11922-<br>35268-          | 6278 182005X<br>9307 445755X           | 9865<br>15209<br>29366-                  | 7512<br>11579  | 5 8 8                        |
| CONE J R  |   | 55200-                    | 9307 44573 <u>EX</u>                   | 15209 29508-                             | 1 1 5 7 9      | 1303                         |
| CONE J R<br>MOBIL MYER<br>41222436  | S<br>N 75   | 7883-                     | 2259 10142EX                           | 4720 5422-                               | 3595           | 132                          |
|   |   |                           |  |  |                |                              |
| 1B242536  | L 0 1 L<br>24 FE<br>24 FE   | 555                       | 5 5 5                                  | 497 497                                  | 497            | 6                            |
| 1J242536<br>DANCIGER  | 242478  | 4998-<br>D                | 1116 6114EX                            | 3023 3091-                               | 2303           | 95                           |
| 2P 82336<br>3A 82336  | ENROO<br>NROO   | 5793-<br>44719            | 14950 20743EX<br>18703 26016           | 16547 4196-<br>24415 50431               | 12602<br>18590 | 388<br>907                   |
| CA 2010<br>CA 200 | L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L | 32226-                    | 10561 42787EX                          | 15884 26903-                             | 12093          | 1351                         |
| 46202437  | FED<br>EN150  | 29470-1                   | 12362 418320                           | 12501 29331-                             | 9521           | 396                          |

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| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | JALMAT POC                         |                     | PASO SYS         |  |                            |                   | YEAR: 1960                            | PAGE: 28   | ACREAGE OR  |
|---|------------------------------------|---------------------|------------------|--|----------------------------|-------------------|---------------------------------------|--|---|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | DESCRIPTION                        |                     |                  |  | Lours luvora aconucatou de |                   |                                       |  | DELIVERABILITY  |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                                    |                     |                  |  | OTER ONDER FRODUCTION      | CORATNI ALLOWABLE | ENDING ALL ALCOHADLE                  |  |   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 1M212437                           | N 75                | 27423-           | 2498                                     | 29921EX                    | 9063              | 20858-                                | 6900   | 891   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 3H292437                           | NEOO                | 4512             | 18566                                    | 14054 <u>F</u> X           | 22020             | 7966                                  | 16767  | 749   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 3A172437                           | I NROO              | 125204           | 1142                                     | 124062                     | 38543             | 162605                                | 29341  | 1839  |
| $\begin{array}{c} 1084 \\ 10$ | 1H302437                           | I NLOO              |                  | 8643                                     | 29712EX                    | 11707             | 18005-                                | 8914   | 841   |
| $\begin{array}{c} \begin{array}{c} 1&0&4&7&2\\ 1&1&0&9&9&5\\ 2&1&2&3&2&3&6\\ 2&1&2&3&2&3&3&6\\ 2&1&2&3&2&3&3&6\\ 2&1&2&2&3&2&3&3&6\\ 2&1&2&2&3&2&3&3&6\\ 2&1&2&2&3&2&3&3&6\\ 2&1&2&2&3&2&3&3&6\\ 2&1&2&2&3&2&3&3&6\\ 2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&3&2&3&3&6&6&6\\ 2&2&2&2&3&2&3&2&2&2&6&3\\ 2&2&2&3&2&3&3&6&6&6&6\\ 2&2&2&3&2&3&3&6&6&6&6\\ 2&2&2&3&2&3&3&6&6&6&6\\ 2&2&2&3&2&3&3&6&6&6&6\\ 2&2&2&2&3&2&3&2&2&2&6&6&6\\ 2&2&2&2&3&2&2&2&2&5&2&6&6\\ 2&2&2&2&3&2&3&2&2&2&2&6&6&6\\ 2&2&2&2&3&2&3&2&2&2&2&6&6&6\\ 2&2&2&2&2&3&2&2&2&2&6&6&6\\ 2&2&2&2&2&3&2&2&2&2&2&6&6&6\\ 2&2&2&2&2&2&2&2&2&2&6&2&2&2&2&6&6\\ 2&2&2&2&2&2&2&2&2&2&2&2&6&2&2&2&2&2&2&2$   | 4P312136<br>6F312136               | NI 50               | 52921            | 899<br>3128                              | 52022<br>3416              | $20323 \\ 6121$   | 7 2 3 4 5<br>9 5 3 7                  | $\begin{array}{r}15474\\4663\end{array}$   | 1084<br>104   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | LYNN A 28<br>5A282336              |                     | 27974            | 14503                                    | 13471                      | 19716             | 33187                                 | 15013  | 783   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 1 J 2 5 2 3 3 6<br>2 M 2 5 2 3 3 6 | INLOO               | 3689-<br>16995-  | 10472<br>35000                           | - 14161FX<br>51995FX       | $12101 \\ 55614$  | 2060-<br>3619                         | 9214<br>42328  | 893<br>6634   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1.1262336                          | 1 N400              | 376928           | 47665                                    | 3.53.59.59.3               | 111374            | 440637                                | 84777  | 2970  |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 14272336                           | I NILOO             | 14963-           | 5 2 9 6                                  | 20259FX                    | 6812              | 11447-                                | 6711   | 459   |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 10292236                           | ENIOO               | 31984 - 20687 -  | 2237                                     | 34221EX                    | 10146<br>30245    | 24075-                                | 7726   | 635   |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 41292236                           | I NH O O            | 3147-1           | 2319<br>3671                             | 5466X<br>15751X            | 7494<br>9911      | 2028<br>5840-                         | 5706<br>7547   | 614<br>604  |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | MEYER B 22<br>11222236             | L'XL<br>L'XL<br>DOC | 266505           | 25272                                    | 241233                     |                   | 308410                                | 51133  | 3728  |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   |                                    |                     | 2104-            | 5907                                     | 8011EX                     | 22144             | 14133<br>44286                        | $16857 \\ 17047$   | 2218<br>2251  |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 3E23236<br>MEYER B 28              |                     | 46407-           |  |                            |                   |                                       |  |   |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 1 E 2 8 2 2 3 6<br>2 A 2 8 2 2 3 6 | E 2100              | 46114-<br>16332- | 3 2 5 4<br>4 9 5 9                       | P0493685X<br>212915X       | 8137<br>9062      | 41231-<br>12229-                      | 6197<br>6901   | 370   |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 1M332236                           | NR OO               | 6381             | 14078                                    | 7697FX                     | 23111             | 15414                                 | 17598  | 821   |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 3 2 3 2 5 3 6                      | MILO                | 786              | 786                                      |                            | 1254              | 1254                                  | 1254   | 17  |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 11192537                           | MIOO                | 2452             | 2452                                     |                            | 19016             | 19016                                 | 19016  | 15  |
| 2D302537 N 50 9357 1557 7800 2924 10724 2228 69   | 1N192537<br>SHOLES 8 3             | NIOO                | 12404            | 13611                                    | 1207EX                     | 8175              | 6968                                  | 6226   | 375   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 20302537<br>State A 32             | N 50                |                  | 1557                                     | •                          | 2924              | 10724                                 | 5558   | 69  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 2G322236<br>3P322236               | N100<br>N100        | 48736-<br>22295- | 28421<br>25525                           | 77157EX<br>47820EX         | 29428<br>24569    | 47729-<br>23251-                      | 22400<br>18703   | 3179<br>2538  |
| $\begin{array}{c} 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 2 \\ 3 \\ 3 \\ 3 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 7$   | AF322236                           | EN200<br>34         | 33290-           |  |                            |                   |                                       |  |   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 1E342336<br>2G342336<br>STEVENS A  | EN 25<br>N175       | 4281-<br>9077-   | $\begin{array}{r}1339\\11816\end{array}$ | 20893EX                    | 24567             | 4211-                                 | 1073<br>18704  | 4 1<br>1 <b>1</b> 4 9   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 1 J 3 5 2 3 3 6<br>2 L 3 5 2 3 3 6 | Ň 75<br>Ň100        | 16612<br>17020-  | 9791 $11311$                             | 6821<br>28331EX            | 14224<br>13852    | 21045<br>14479-                       | 10828<br>10546   | 1799  |
| TEVENS       10       10468-       2670       13138EX       12465       673-       9491       941         TEVENS       12       0       7360       43158       35798EX       51976       16178       39560       6154         24122336       N100       25226       53377       28151EX       59495       31344       45282       7146         TEVENS       14       100       52198-       41026       93224EX       48118       45106-       36624       5645         TEVENS       15       15       33348EX       10426       22922-       7939       672  | 5TEVENS B<br>1M 72337<br>2J 72337  |                     | 5302             | 41462                                    | 36160EX                    | 13473             | 22687-                                |  |   |
| TEVENS       B       12       0       7360       43158       35798EX       51976       16178       39560       6154         2A122336       N100       25226       53377       28151EX       59495       31344       45282       7146         TEVENS       B       14       25226       53377       28151EX       59495       31344       45282       7146         TEVENS       B       14       25226       53377       28151EX       59495       31344       45282       7146         TEVENS       B       14       2336       N100       52198-       41026       93224EX       48118       45106-       36624       5645         TEVENS       315       152336       N100       26537-       6811       33348EX       10426       22922-       7939       672  | STËVENS 5<br>10 72337              | 7 UNI<br>N100       | T 10468-         |  |                            |                   | · · · · · · · · · · · · · · · · · · · |  | i de la compañía de l |
| TEVENS       14       45282       7146         TEVENS       14       45282       7146         142336       N100       52198-       41026       93224EX       48118       45106-       36624       5645         TEVENS       15       15       2336       N100       26537-       6811       33348EX       10426       22922-       7939       672   | 5TEVENS B<br>101223336             | 1 2<br>N 1 0 0      | 7360             | 43158                                    |                            |                   |                                       |  | 9 👔 👘 👘   |
| TEVENS 36 15 100 26537- 6811 33348EX 10426 22922- 7939 672  | STEVENS B                          | 14                  | 27220            |  |                            |                   |                                       |  | 1 .   |
| 2K152336 N100 26537- 6811 33348EX 10426 22922- 7939 672   | STEVENS                            | 15                  | 56170-           |  |                            | •                 |                                       | and the second | 1   |
|   | 2K152336                           | N100                | 26537-           | 6811                                     | 33348EX                    | 10426             | 55955-                                | 7939   | 672   |

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| · •   |   |                         |  | ·  |                  |                             |
|---|---|-------------------------|--|--|------------------|-----------------------------|
| ALMAT POO<br>DESCRIPTION  | STATES ACREAGE  | PASO SYS                | TEM CTO<br>FEBRUARY                      | YEAR: 1960                               | PAGE: 29<br>APR. | ACREAGE OR<br>DELIVERABILIT |
| DESCRIPTION   | FACTOR  | BEGINNING NET ALLOWABLE | NCF PRODUCTION   OVER/UNDER PRODUCTION + | CURRENT ALLOWABLE ENDING NET ALLOWABLE ± | NEW ALLOCATION   | DICCULINITIE                |
| TEVENS B<br>1F182337<br>2K182337  | 1 8<br>N1 00<br>N1 00   | 348<br>87743            | 31787<br>53799 314396X<br>53799 33944    | 19711 11728-<br>88145 122089             | 15005<br>67085   | 1897<br>10928               |
| TEVENS NM<br>18182337   | N100  | 3689-                   | 4045 77345                               | 6758 976-                                | 5148             | 188                         |
| AUGHN A 1<br>1E122436   | 2<br>N 50   | 23699-                  | 9184 32883FX                             | 10746 22137-                             | 8180             | 213                         |
| AUGHAN B<br>1H 12436<br>2F 12436  | 1<br>N100<br>N100   | 29366<br>18299-         | 29766 400EX<br>34636 52935EX             | 28852<br>13890<br>28452<br>39045         | 21961<br>10575   | 310<br>112                  |
| AUGHAN B<br>1H122436  | 12<br>N 50  | 64590-                  | 18940 0835305                            | 15195 68335-                             | 11566            | 330                         |
| ELLS B 1<br>1A 12536  | NIOO  | 2723                    | 7914 5191EX                              | 6409 1218                                | 4882             | 14                          |
| ALPORT OI   | L COR   | P                       |  |  |                  |                             |
| HRISTMAS<br>10252236  |   | 19258-                  | 10011 29269EX                            | 15876 13393-                             | 12087            | 139                         |
| 4 1010000   | B<br>N100   | 80506                   | 21026 59480                              | 34271 93751                              | 26086            | 381                         |
| 10212236<br>ARRISON<br>1072537  | Ň 50  | 6725-                   | 1409 81345X                              | 4099 4035-                               | 3122             | 37                          |
| 1P342236  | N100  | 32563-                  | 10078 426415                             | 25471 17170-                             | 19389            | 265                         |
| F KING<br>1M312237  | N100  | 5591-                   | 5942 11533X                              | 16861 5328                               | 12836            | 152                         |
| H KING<br>1M 62337  | N100  | 8535-                   | 52985 61520EX                            | 39167 22353-                             | 29812            | 446                         |
| AMAR LUNT   |   | 23593                   | 5914 17679                               | 11843 29522                              | 9018             | 85                          |
| 1NTERS<br>18182537  | N100  | 1769                    | 9933 8164 X                              | 13473 5309                               | 10258            | 107                         |
| 1NTERS B<br>2L 72537  | Ň 98  | 19785-                  | 484 20269EX                              | 9319 10950-                              | 7097             | 55                          |
| INTERS C<br>1 J 72537   | NIOO  | 7252-                   | 7571 14823EX                             | 10949 3874-                              | 8337             | 74                          |
|   | TGAS  |                         |  |  |                  |                             |
| 20212433  | N 75  | 9304-                   | 6809 16113FX                             | 5523 10590-                              | 4207             | 26                          |
| ARLSON FE<br>112232537  | 00270   | $\begin{array}{c}1$     | 57087<br>2307<br>5913                    | 52413<br>6083<br>11996                   | $39897 \\ 4634$  | 275<br>9                    |
| LLIOTT<br>1F172637<br>2D212637  | N100<br>N 50  | 39713<br>2733-          | 2867 36846<br>12696 15429EX              | 12404 49250<br>8343 7086-                | 9445<br>6352     | 93<br>149                   |
| 20212637<br>-L-072637<br>31172637   | NIOO  | 31269                   | 7603 23666                               | 15656 39322                              | 11919            | 130                         |
| 26 42637  | N175  | 34677                   | 56174 21497EX                            | 46881 25384                              | 35686            | 263                         |
| ARRISON F   | N275  | 76383                   | 52554 23829                              | 72003 95832                              | 54809            | \$75                        |
| 1 272537<br>20272537  | 2<br>2<br>2<br>0<br>0<br>0<br>0   | 9227<br>23602-          | 6727<br>4285 27887EX                     | 10388 12888<br>22364 5523-               | 7910<br>17024    | 224                         |
| AL D<br>38 82537<br>ANGLIE A  | NI OO   | 8600-                   | 5802 14402 X                             | 17710 3308                               | 13482            | 163                         |
| 305<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | -<br>で<br>10<br>10<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 26745                   | 365 26380                                | 5697 32077                               | 4340             | 4                           |
| 35212637  | Ň 50  | 10092-                  | 4963 15055 <sub>X</sub>                  | 9162 5893-                               | 6975             | 171                         |
| 1D292637<br>RICHARD   | N200  | 24577                   | 9288 15289                               | 17381 32670                              | 13237            | 44                          |
| 1N152537  | NIOO  | 23940-                  | 19626 43566EX                            | 22129 21437-                             | 16845            | 221                         |
| RICHARD A<br>1992537  | NROO  | 49885                   | 45494 4391                               | 39695 44086                              | 30218            | ·                           |

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| JALMAT POOL   | L                | EL                | PASO SYS  | TEM CTD   | YEAR:1960   | PAGE: 30   |                                      |
|---|------------------|-------------------|---|---|---|--|--------------------------------------|
|   |                  | ACREAGE<br>FACTOR |   | FEBRUARY  | MAR,  | APR.   | ACREAGE OR<br>DELIVERABILITY         |
|   |                  | FACTOR            | BEGINNING NET ALLOWABLE ±   | NCF PRODUCTION   OVER/UNDER PRODUCTION +  | CURRENT ALLOWABLE ENDING NET ALLOWABLE ±  | NEW ALLOCATION   |                                      |
| SHELL STATE<br>2P132336<br>3P222336<br>4K 22336<br>WELLS FED  | EL<br>ZZZ        | ĪOÕ               | 2 8 6 4 6 -<br>1 8 8 4 9<br>5 2 3 8 9                             | 23769<br>16884<br>55643<br>3254FX   | 22007<br>15148<br>60018<br>56764  | $\begin{array}{r}1 & 6 & 7 & 5 & 3 \\1 & 1 & 5 & 3 & 3 \\4 & 5 & 6 & 8 & 0\end{array}$ | 2200<br>1295<br>7215                 |
| 1-522553777<br>1-5225537777<br>1-1-2555377777<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-2000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-20000<br>1-1-200000<br>1-1-20000<br>1-1-20000000000 | 2.2.2.2.2.2<br>H | 100010050         | 55698-<br>37870-<br>11039-<br>42484-<br>42134-<br>8947-<br>33194- | 4727<br>42597EX<br>6524<br>17563EX<br>3055<br>45539EX<br>30944<br>73078EX<br>3182<br>12129EX<br>2544<br>35738EX | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 4 8 5 1 8<br>8 1 8 2<br>1 3 4 1 9<br>2 8 1 6 2<br>2 8 1 6 2<br>2 5 7 8 1               | 6025<br>714<br>16224<br>5854<br>2871 |
| 1A332336  | EN<br>N<br>N     | 75<br>100         | 47119-<br>510-  | 1 3 6 0 5 P 0 6 0 7 2 4 EX<br>6 5 2 9 7 0 3 9 EX  | 3     3     5     7     5     7     4     -       5     7     5     7     5     4     9     7     4     -       6     2     8     7     5     1     - | 2 5 7 8 1<br>4 3 8 0<br>4 7 9 0  | 2871<br>309<br>126                   |
| A R EPPENAL<br>F S B STUAF<br>20222537<br>GACKLE ALBE   | : [              | ק<br>75<br>ר      | 3783  | 26066 22283EX   | 11814 10469-  | 8994   | 1375                                 |
| COWDEN<br>1 J 302337  | N                | 75                | 28701 -   | 9233 37934EX  | 13595 24339-  | 10350  | 1689                                 |
| 1 302337  | Ń                | 5 O               | 27911-  | 5356 33267EX  | 9647 23620-   | 7344   | 1842<br>1296                         |
|   | N                | 198               | 11217-  | 7079 18296EX  | 30008 11712   | 22846  | 1290                                 |
| 1A332236<br>2H332236<br>2H1A332236<br>2H1A332236<br>2H1N  | · ·              | 100               | 38240-  | 315<br>315 038555 EX  | 6849 31706-   | 5217   | 200                                  |
| ETZ<br>4 i 272336<br>K i NG<br>10122336   | N N<br>N         | 200               | 239596<br>8697-   | 53752 185844<br>84764 93461 <u>5</u> X  | 95873 281717<br>74495 18966-  | 72971<br>56697   | 5621<br>9125                         |
|   | T A I            | E<br>E<br>O<br>O  | 14531   | 51606 37075EX   | 78516 41441   | 59762  | 4476                                 |
| GULF OIL CO<br>H D GREER<br>1K212236  |                  |                   | 87908   | 12342 75566   | 30997 106563  | 23594  | 3386                                 |
| 1 K212236<br>JANDA E<br>3 A212336<br>JANDA H STA  |                  | 00                | 67566-  | 39800071546EX   | 8925 62621-   | 6797   | 474                                  |
| 1   1 1 2 3 3 6  <br>IANDA   STA  |                  |                   | 27705-<br>8506  | 19194 468995X   | 22356 24543-  | 17018  | 2246                                 |
| 1H 22336<br>2D 22336<br>VINSON RAME<br>2H122636   |                  | 04<br>03<br>00    | 57240<br>25112  | 41414 32908EX<br>55936 1304<br>5969 19143   | 44527     11619       58109     59413       11487     30630   | 33891<br>44227<br>8747   | 4907<br>6740<br>812                  |
| · · · · · · · · · · · · · · · · · · ·   |                  | I                 |   |   |   |  | 918                                  |
| 3 1 3 2 4 3 6   | Ń                | 00                | 16670-  | 5268 21938EX  | 12344 9594~   | 9399   | 925                                  |
|   | N                | 75<br>50          | 1696-<br>23810-   | 61568 63264EX<br>19098P042908EX   | 44678 18586-<br>6699 36209-   | 34005<br>5100  | 7157                                 |
| HADIJ212537<br>HARR152436<br>JK252436<br>HUNTE2   | Ň                | 25                | 9782  | 798 8934  | 1364 10348  | 1039   | 19                                   |
| HARRISON<br>1 M 2 5 2 4 3 6<br>3 K 2 5 2 4 3 6  | ŻŹ               | 7525              | 2080<br>724   | 14513 12433EX   | 8729 3704-<br>2955 2955   | 6647<br>2955   |                                      |
| HUNTER<br>10242436  | Ň1               |                   | 18783-  | 4012 22795EX  | 8334 14461-   | 6347   | 396                                  |

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| JALMAT POOL EL   |  |   |   |  |                              |
|--|--|---|---|--|------------------------------|
| DESCRIPTION STATUS ACREAGE   | PASO SYS   | EBRUARY                                 | YEAR:1960   | PAGE: 31   |                              |
|  | BEGINNING NET ALLOWABLE  | MCF PRODUCTION LOVER/UNDER PRODUCTION - | CUPRENT ALLOWARLE FOUND NET ALLOWARLE +           | APR.   | ACREAGE OR<br>DELIVERABILITY |
| LANEHART<br>1K212537 N 25  |  |   | PHOLEG NET AFLOWARTE T                            | NEW ALCOCATION   |                              |
| NEW MEX STATE 2<br>NEW MEX STATE 2   | 5383-  | 325 5708rx                              | 2190 3518-  | 1668   | 453                          |
|  | 35150  | 2684 32466                              | 10608 43074                                       | 8078   | 696                          |
|  | 51352-   | 16724 68076EX                           | 27465 40611-                                      | 20906  | 2920                         |
|  | 811  | 811                                     | 1435 1435   | 1435   | 34                           |
| HUSKY OIL COLLING  |  |   |   |  | 3 4                          |
| MONTO 78537 NH 00  | 8253-  | 5320 13573EX                            | 8456 5117-  | 6440   | 412                          |
|  | 134946   | P134946 fx                              |   |  |                              |
| N SHORE WODL WORT<br>3E332437 NLOO   | 20365  |   |   | 4275   | 778                          |
| JAL OIL COLLIC   |  | 17425 2940                              | 14026 16966                                       | 10679  | 1147                         |
| CHRISTMAS  |  |   |   | 4  |                              |
| 1L 282236 N1 00<br>21282236 N1 00  | 6663-  | 2021 156845X                            | 8615 7069-  |  | (                            |
| 3H312537ENT 00   | 17784-   | 9021<br>7866 25650X                     | 8615         7069-           10532         15118- | 6561<br>8020   | 433<br>686                   |
| HODGE 82437 N100   | 44428-   | 3752048180 <u>F</u> X                   | 6993 41187-                                       | 5326   | 219                          |
| JACKS<br>1E 82437 N100   | 13155-   | 50718 63873EX                           | 52916 10957-                                      | 40275  | 6278                         |
| UENKINS<br>1M292537EN100   | 21221-   | 20616 41837EX                           | 19696 22141-                                      | 14994  | 1895                         |
| LEGAL 2337ENL00  | 54987-   | 11054998FX                              | 9411 45587-                                       | 7166   | 538                          |
|  | 96200-   | 110130107213tx                          | 9638 97575-                                       | 7339   | 568                          |
| 1M212537 N 50<br>REPOLLO<br>1E282537EN100  | 14568  | 1539 13029                              | 3917 16946  | 2983   | 330                          |
|  | 88040-   | ₽088040EX                               | 7387 80653-                                       | 5626   | 271                          |
| Feiler   | 13231-   | 6849020080FX                            | 2561 17519-                                       | 1950   | 651                          |
| HAIR   |  |   |   |  |                              |
| SHAHAN   | 25930-   | 36396 623265                            | 23804 38522-                                      | 18119  | 3 4 8 4                      |
| KING WARREN DYE  | 16205-   | 3850 20055 <sub>EX</sub>                | 4583 15472-                                       | 3492   | 103                          |
|  |  |   |   | ~~   |                              |
| 2K 72437 N 50  | 21668-   | 27504 49172EX                           | 10958 38214-                                      | 07/-   |                              |
| LATE OIL CO  |  |   | 00214-  | 8342 2   | 2188                         |
| 1M172437 N100  | 64053  | 18534 45519                             |   |  |                              |
| LEATLL 255<br>0 1 00<br>0 0<br>0 0<br>0<br>0 0<br>0 0<br>0<br>0 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  | 18534 45519                             | 28564 74083                                       | 21742 3  | 065                          |
| 16202537 NLOO  | 20160  |   |   |  | A                            |
| 11202537<br>20292537<br>N100   | 22169<br>29644-  | 7489 <u>14680</u><br>29644 <u>FX</u>    | 7826<br>6636 22506<br>23008-                      | 5961   | 200                          |
| 1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | and the second |   |   | 5961<br>5055   | 329                          |
| 1H192537 N 50<br>2H202537 N100<br>F.M. JUSTIS<br>7F202537 N100   | 1383<br>6583-  | 4908<br>7342 13925X                     | 3485<br>8706 5219-                                | 2655   | 216                          |
| 1H192537<br>2H202537<br>NL00<br>F.M.JUSTIS<br>7F202537<br>NL00   | 15229  | 7168 8061                               |   |  | 445                          |
| OWE PAL  |  |   | 9699 17760  | 7386   | 576                          |
| COATESTATT   | -  |   |   |  |                              |
| LOWE RALPH<br>COATES A<br>XE312537 M 50<br>MAGGLE ROSE<br>1M182537 N 50  |  |   |   | $\left\  \left\  \left\  {{{_{{{{}}}}}} \right\ _{{{}}}} \right\  = \left\  {{_{{{}}}}} \right\ _{{{}}} \right\  = \left\  {{_{{{}}}}} \right\ _{{{}}} = \left\  {{_{{}}}} \right\ _{{{}}} = \left\  \left\  {{_{{}}} \right\ _{{{}}} = \left\  {{_{{}}} \right\ _{{{}}$ | s                            |
| 1M182537FN 50  | 583  | 1193 17768                              |   | 402  | 4                            |
|  |  |   | 2977 1201   | 2268   | 83                           |

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| LALMAT POOL E  | PASO SYS         | TEM CTD                                 | YEAR:1960   | PAGE: 32<br>ADE LACREAGE OR      |
|--|------------------|---|---|----------------------------------|
| DESCRIPTION STATUS ACRE  | E                | FEBRUARY                                | MAR   | A PR ACREAGE OR DELIVERABILITY   |
| 3K182537 N 5   |                  | NCE PRODUCTION OVER/UNDER PRODUCTION +  | CURPENTATIONABLE ENDING NET ALLOWABLE 4<br>4053 3321      | 3087 366                         |
| SHELL STATE B<br>1K162336 M 2<br>SHELL STATE C<br>2N362336 N 5   |                  | 6751 16405EX                            | 6229 10176-   | 4743 941                         |
| 0HIO 01L CO<br>MCDONALD<br>6N162236<br>6N25H162236N37  | 5 235150         | 16395<br>27184 207966<br>10789          | 101681 309647   | 77399 2874                       |
| 25H162236  |                  | 10789                                   | TOTOOT 202011   |                                  |
| BLANKENSHIP  | RPORATED         |   |   | 7755 640                         |
| 1J182437 N10<br>BLINEBRY A   | 0 4477-          |   | 10184 2555-   |                                  |
| BLINEBRY A<br>8L292337 NTO<br>CALLEY   | 3611 -           | 7982 11593EX                            | 12465 872   | 9491 941                         |
| 1H 72537 N 5   | 11804-           | 657 12461 <u>5</u> X                    | 3038 9423-  | 2314 97                          |
| S. R. COODER<br>10112436 N10<br>1H232436EN10<br>5H142436 N10   | 11300-           | 2156 13456FX                            | 10388<br>5651<br>10737<br>13217-                          | 7910 667<br>4305 42<br>8176 713  |
| COOPER B<br>2C142436 N10   | 75426-           | 075426 <u>x</u>                         | 7152 68274-   | 5448 240                         |
| COOPER G SW4<br>1K112436 N20   | 11976-           | 29822 41798EX                           | 34116 7682-   | 25973 1547                       |
| M JAMES<br>16102236 N10  |                  | 26592 4345EX                            | 21628 17283   | 16465 2150                       |
| KING E<br>1E 12336 N10   |                  |   | 27798 15320-  | 21160 2964                       |
| S E KING<br>10 12336 N10   |                  |   | 13033 3356  | 9924 1016                        |
| MEYERS B<br>1F132436 N10   | 18134-           | 11 18145FX                              | 6780 11365-   | 5165 191<br>8159 710             |
| 2H112436 N10<br>COURTLAND NYER<br>1J 62437 N10   | 5                |   | 9373 19826-   | 7138 533<br>7478 592             |
| 2M 52437 NO<br>VAN ZANDT   | 17765-           |   | 9820 20183-   |                                  |
| 11252436 N10   | 5750-            | 12897 18647FX                           | 9714 .8933-   | 7397 578                         |
| 1C302537 N10<br>2P192537 N 5<br>3 - 302537EN15   | 3657             | 2242 24827<br>2329 1328<br>5281 43962EX | 6280     31107       3144     4472       12160     31802- | 4784 125<br>2395 126<br>9261 366 |
| PAN AMERICAN   |                  |   |   |                                  |
| C M FARNSWORTH<br>4E182637 N30   | 34519            | 26625 7894                              | 29891 37785   | 22762 611                        |
| GREGORY A 22<br>1N312537 N 2   | 5 5 0 6 8 -      | 131 51995X                              | 1576 3623-  | 1200 129                         |
| P J LANGLIE A<br>2L 92537 N10  | 26927-           | 5077 32004FX                            | 40675 8671  | 30960 4663                       |
| LANGLIE B7<br>LANGLIE 7<br>ANGLIE 537<br>LANGLIE 7<br>C MED<br>C MED |                  |   | 5493 46181-   | 4184 263                         |
|  | 16107-           |   | 26222<br>26206<br>995-                                    | 19960 2756<br>19948 2754         |
| 106 72437 N10<br>Courtland Myer<br>131 92437 N10   | S B              |   | 9168 49241-   | 6982 506                         |
| PHILLIPS PET C   |                  |   |   |                                  |
| 1 1M 625.37 NL 9   | 36564 - 115193 - | 36564EX<br>P115193EX                    | 8728 27836-<br>11684 103509-                              | 6646<br>8897<br>838              |
| 2H 62537 N10<br>WOOLWORTH<br>4J332437 N20  |                  |   | 23717 10470-  | 18059 861                        |
| Lange and the second se   |                  | <u> </u>                                |   |                                  |

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| ŕ       | <u>ĴAL</u>                           | MAT  | <u>c</u> 1   | 00             | <u>L</u>       | EL                | PAS        | 0          | SYS        | TEM            |            |                |       |        |       |               |              |            | YEAR | 96         | 0      | PAGE:    | 3        | 3     | ACREA    |            |
|---------|--------------------------------------|--|--|----------------|----------------|-------------------|------------|------------|------------|----------------|------------|----------------|-------|--------|-------|---------------|--------------|------------|------|------------|--------|----------|----------|-------|----------|------------|
|         | 1                                    | DESCRIP  | TION   |                | STAT#S         | ACREAGE<br>FACYOR | BEGINNING  | ET 4110    | WAR15 +    | PEBR           |            |                |       | alunne | PPPAD | UCTION -      | CURRENT ALSO |            | MAR. | 41109481   | (F -f- | NFW 1110 |          |       | ACREAG   | ABILITY    |
|         | RES<br>STE<br>1                      |  | R  | Α              | 1 .            | рол<br>200        |            | 88         |            |                |            | 57:            |       |        | 77    |               |              | 702        |      | o 4 9      |        | 17       | 28       | 6     | 7        | 94         |
|         | 2 P 1<br>H U MI                      | F 1 E 1<br>P 2 1<br>P 2 1<br>E 2<br>E 2<br>E E | L<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N | 37<br>37<br>37 | N              | 100               | 4          | 47         | 39-        | 12             | 797        | 293<br>2547    | 3     | 571    | 58    | 8 6 FX        | 7            | 212        | 5 64 | 107        | 4      |          | 49       |       |          | 48         |
|         | 1<br>ROD                             | 132  | 24   | 37             | Ň              | 75                | 10         | 91         | 07         | 1              | 20         | 032            | 2     | 97     | 0     | 75            | 32           | 650        | 129  | 72         | 5      | 24       | 8 5      | 1     | 50       | 41         |
|         | FEDI                                 |  | L  | 34 S           | ( <sup>*</sup> | 100               | 7          | 06         | 26-        |                | 3 6        | 508            | 3 - 0 | 074    | 1 2 3 | 3 4 εx        | 7            | 667        | 7 66 | 56         | 7 -    | 5        | 84       | 0     | 3        | 08         |
|         | SAMI<br>HUGI<br>10                   | EDA<br>HES<br>C19                              | B  |                | 1              |                   |            | 16         | 96-        | 4              | 03         | 338            | 3     | 52     | 20:   | 3 4 FX        | 41           | 2 8 9      | 9 10 | 74         | 5 -    | 31       | 42       | 7     | 47       | 44         |
|         | SCH                                  | ERM  | E R<br>A   | но<br>мі       | RŃ             |                   | -<br>U     | 13         |            |                |            | 321            |       |        |       |               |              | 583        |      | 68         | 3      | 1 4      | 68       | 3     |          | 1          |
|         | woou                                 | - 8 8<br>- 8 9                                 | RT   | $H^{\circ}$    | 1              | 800               |            | 35         |            |                |            | 030            |       | 41     | . 81  | L 7 EX        |              | 013        |      | 80         | · ]    |          | 2 2      |       | 20       | 0 2        |
|         | 5C0<br>VAU<br>11<br>E J              |  | 24   | 36             |                | 800<br>L          | TR<br>1    | 63         | 56         |                |            |                |       | 16     | 539   | 56            | 140          | 568        | 3 31 | 0 S        | 4      | 11       | 17       | 2     | 2        | 64         |
|         | 27<br>Shel                           | 412<br>_L                                      | 25<br>01   | 36<br>L        | й<br>СО        | 50                |            | 36         | 55         |                | 4 4        | 62             | :     |        | 80    | ο7εχ<br>,     | 3 :          | 326        | 5 2  | 51         | 9      | 2        | 53       | 3     | 1        | 73         |
| Ś       | CHR<br>1<br>CHR                      | 1 ST<br>123<br>1 ST                            | M A<br>2 2<br>M A  | S<br>36<br>S   | A<br>N<br>B    | 100               |            | 48         |            |                |            | 882            | 1     |        |       | 5 1 EX        |              | 913        |      | 75         |        |          | 76       | · } . | 32       |            |
| - (†    | SHEL<br>28                           | 321  | 5 S<br>CH  | RI             | 15 T I         | 100<br>MAS<br>100 |            | 94<br>530  | 32-<br>02- |                |            | 356<br>578     |       |        | 28    | 38£X<br>24    |              | 987<br>330 |      | 30<br>55   | (      | 19<br>12 |          |       | 27<br>13 | 1.1        |
|         | 5 T A<br>1<br>5 I M (                | 536  |  |                |                | 100<br>E          | 1          | 26         | 29-        | 1              | 4 9        | 9 6 2          |       | 27     | 59    | 9 1 EX        | 9 '          | 767        | 7 17 | 8 2        | 4 -    | 7        | 4 3      | 7     | 5        | 8 5        |
| 5       | 5 M I -<br>3<br>V O O L              |  | 25<br>RT   | 37             | 1 1            | 75                |            |            | 10-        |                |            | 969            | 1     |        |       | 7 9 EX        |              | 379        | 1    | 70         |        |          | 47       |       |          | 31         |
|         | 1+                                   | < 33   | 24   | 37             | Ň<br>IĽ        | 5 0<br>G A        |            | 15         | 50-        |                | 23         | 39C            | þc    | 43     | 94    | t o ex        | 6 5          | 509        | 37   | 43         | 1-     | 4        | 95       | 6     | 10       | 14         |
|         |                                      | SBY<br>SBY                                     | 25   | 37<br>55       |                | 50                | •          |            | 22-        |                | <u>م</u> خ |                |       |        |       | 2 S EX        |              | 470        | 1    | 56         |        |          | 64       |       | 7        | 12         |
| F       |                                      |  | 25   | 37<br>71       | 4<br>          | 100               |            | 480        |            | {              |            | 5 2 0<br>5 2 0 |       |        | 60    | -             |              | 743        |      | 34<br>21   |        |          | 13       |       | 1        | 86         |
| - N. E. | ~ ~ C                                |  | 64   | 57             | 1 1 1 1        | 201               | <b>L</b> . |            | 50-<br>96  | }              |            | 96             | . 1   | たた     | 4 0   | 3 O EX        |              | L 3 7      | ł    | 13         |        |          | 53<br>13 | 11    | 12       | 15<br>30   |
| 5       | 1<br>5 T A                           |  | 212  | 36<br>7<br>36  | A<br>N         | 100               |            | 640<br>298 |            |                |            | 570<br>579     | 1     |        | 73    | 3 4<br>9 O FX | 124          | 473<br>963 | 1    | 2 0<br>3 7 | }      |          | 49<br>82 | · 12  |          | 4 2<br>7 9 |
| 9       | HANA<br>JONE<br>STAT<br>STAT<br>STAT | ΓΕ<br>7<br>ΓΕ                                  | 1225   | 767            | B<br>Ň<br>C    | 95                |            |            | 52-        | 1.<br>1. 1. 1. | 55         | 523            |       | 14     | 37    | 5 EX          | 129          | >11        | . 1  | 4 6        | 4 -    |          | 83       | - I   | 4<br>1 0 |            |
| Ľ       | 10                                   | 232  | 24   | 37             | N              | 50                | 1          | 790        | ) 6 –      |                | 56         | 09             |       | 23     | 51    | 5 FX          | 8 4          | 104        | 15   | 11         | 1-     | 6        | 39       | 8     | 15:      | 15         |

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|      | JALMA                | TPO               | 01         | EL         | PASO SYS  |   |                          |  | var. 1060            | PAGE: 34       |  |
|------|----------------------|-------------------|------------|------------|---|---|--------------------------|--|----------------------|----------------|--|
| ſ    |                      | IPTION            | STATO      |            |   | FEBRUARY  |                          | and a state of the | YEAR: 1960           | APR.           | ACREAGE OR<br>DELIVERABILITY                                       |
| 1    | 2P3                  | <b>)</b> ) / / /  |            |            | BEGINNING NET ALLOWARLE ±   | NCF PRODUCTION  | OVER/UNDER PRODUCTION :  |  | ENDING NET ALLOWABLE | NEW ALLOCATION |  |
| : 5  | STATE                | 157               |            |            | 25300-  | 5930  | P0312305X                | 5434   |                      |                | 139  |
| . 5  | STATE                | 2243              | 1.1        |            | 6527-   |   | 6527EX                   | 3189   |                      | 1              |  |
| ŀ    |                      | 7233              |            | 1100       | 35248   | 330   | 34918                    | 5492   | 40410                | 4184           | 21   |
| E    | SKELL<br>E COA       | TS                |            | :p         | -   |   |                          |  |                      |                |  |
|      | 2 Ń<br>3 M           | 3243              | 6          |            |   | 9133<br>9393  |                          |  |                      |                |  |
| 12   | 2N3M 3               | 3243<br>00PE      |            | iboo       | 10597   | 18526   | 7929EX                   | 12924  | 4995                 | 9845           | 149  |
| E    | 3N12                 | 2243<br>0 HNS     | 6 N        | 1200       | 114101-   | 20730   | P1348315X                | 18961  | 115870-              | 14434          | 1798   |
|      | 1 L 2 1              | 1243              | 7 N        | 25         | 6696-   | 2130  | P008826EX                | 1462   | 7364-                | 1114           | 68   |
|      |                      | C<br>1 2 3 3<br>D | 6 N        | 1 0 5      | 26255   | 33597   | 7342FX                   | 49977  | 42635                | 38038          | 5577   |
|      | 1E C                 | 5233              | 7 N        | 1 2 1      | 13083-  | 8835  | 21918EX                  | 20075  | 1843-                | 15282          | 1919   |
|      | 5 . 1                | 7243              | 7 8        | I O O      | 60721-  | 101859  | 162580FX                 | 55228  | 107352-              | 42034          | 6583   |
|      | 1 1 3 6              | 52330             | 6 N        | 50         | 9736-   | 4841  | 14577EX                  | 9109   | 5468-                | 6934           | 1701   |
|      | 10 2                 |                   | 6 Ň        | 100        | 973-  | 27794   | 28767EX                  | 27101  | 1666-                | 20629          | 2872   |
| . L. | 1016                 | 5243              | 7 N        | 100        | 8305-   | 13396   | 21701 FX                 | 15231  | 6470-                | 11596          | 1306   |
|      |                      | 5253              | 7 N        |            | 9029-   | 1.<br>  | 9 0 2 9 EX<br>7 4 4 2 EX | 5509   | 3520-                | 4195           | 751  |
| s    | 5N31                 | M                 |            | 150        | 5498-   | 1944  |                          | 12645  |                      | 9631           | 409  |
| s    | 3K32<br>E TO         | )BY               |            | 75         | 18266-  | 3440  | 21706 <u>FX</u>          | 6978   | 14728-               | 5314           | 524  |
|      |                      | 243               | 7 Ñ        | 49         | 1880-   | 14626   | 16506EX                  | 6623   | 9883-                | 5042           | 1081   |
| S    | OU CA                |                   | ≡∣T        | COR        |   | N   |                          |  |                      |                |  |
|      | 1 M 3 4<br>2 E 3 4   | 253               | 7 Ň<br>7 M |            | 6827-<br>2157   | 472<br>2157   | 7299EX                   | 7546<br>1241   | 247<br>1241          | 5747<br>1241   | 292<br>61  |
| G    | UTMAN<br>1918        | 4                 |            | 100        | 8483  | 11909   | 3426 EX                  | 7637   | 4211                 |                | 301  |
| H    | IUNTEF<br>1K13       | ₹                 |            | 100        | 6021-   | 12966   | 18987EX                  | 11783  |                      | 5817           |  |
| M    | ARTIN                |                   | •          | 100        | 8550-   | 9233  |                          | •  |                      | 8972           | 851  |
|      | ARTIN                | I B               |            | 100        |   |   | 17783EX                  | 7773   |                      | 5920           | 322  |
| M    | 1F31<br>OSLEY        | 2437              |            | <b>}</b> ≁ | 19052-  | 1581  | 20633EX                  | 7015   | 1                    | 5344           | 555  |
|      | AN ZA                | NDT               | - F.       |            | 2731  | 2731  |                          | 9511   | 9511                 | 9511           | 25   |
|      | 4 G 2 5<br>0 S B U R | 2 4 3 6<br>2 G    | 5 N        | 25         | 19185-  |   | -023130FX                | 2614   | 20516-               | 1991           | 679  |
| w    | OOLWO                | 2537<br>RTH       |            |            | 1098-   | 4333  | 5431EX                   | 3258   | 2173-                | 2481           | 15   |
|      |                      | 2537              |            | 100        | 131-  | 7547  | 7678EX                   | 7394   | 284-                 | 5632           | 2/12   |
| 11   | UN OI<br>ANEHA       | RT                |            |            |   |   |                          |  |                      |                |  |
| P    |                      | 2537              | N<br>E T   | 5 O<br>AL  | 4026-   | 5519  | 9545EX                   | 3477   | 6068-                | 2649           | 214  |
| н    | 1C22<br>S REC        | 2236<br>ORD       | Ň<br>NL    |            | 194178  | 10681   | 183497                   | 50241  | 233738               | 38239          | 5925   |
|      | S REC<br>1A22        | 2236              | N          | 100        | 2857 -  | 3137  | 5994EX                   | 18536  | 12542                | 14111          | 1742   |
| s    | UNRAY                | MIÇ               | C          | ΟNT        | n de la companya de l<br>La companya de la comp | an an air an ai | •                        | •<br>••••••••••••••••••••••••••••••••••••  |                      |                |  |
|      |                      | •                 |            |            |   |   |                          |  |                      |                | ∮ – – – – – – <mark>1</mark> – – – – – – – – – – – – – – – – – – – |
|      |                      |                   |            | ·          |   |   |                          |  | L                    |                | 5 I.   |

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| ALMAT POO  |  | <u> </u>                                | PASO SYS   | TEM CTD   |   |   | YEAR:1960  | PAGE: 35  | ACREAGE OR  |
|--|--|---|--|---|---|---|--|---|---|
| DESCRIPTION  | STATES                                   | ACREAGE<br>FACTOR                       | BEGINNING NET ALLOWABLE ±  | FEBRUARY  | OVER/UNDER PRODUCTION ±   | CUPRENT ALLOWABLE   | AR .   | NEW ALLOCATION  | DELIVERABILIT   |
| D GREER<br>20212236  | Ñ  | 200                                     | 9262-  | 39990   | 49252 <sub>FX</sub>   | 52625   | 3373   | 40058   | 2768  |
| EXACO<br>LACK<br>2K212437<br>C FRISTOE<br>1E302437<br>RISTOE B<br>2M312437 | Ň  | 3                                       | 26190  | 3084  | 23106   | 10433   | 33539  | 7946  | 398<br>150  |
| 1E302437<br>RISTOE B<br>2M312437   |  | 25<br>72                                | 2516-  | 262   | 2778FX  | 1614  | 1164-<br>268880-   | 1229<br>8186  | 126   |
|  |  |   | 278479-<br>IL  | TT 2 2  | > 2 7 9 6 3 2 г <u>х</u>  | 10752   | 200000-  | 0100  |   |
| $\begin{array}{llllllllllllllllllllllllllllllllllll$                       | 2272272727272727272727272727272727272727 |   | 6065068564813083514717992596328014632<br>3264692788078959595959595959614632<br>3264692788078959595959595959614632<br>3714512173205304195886396997595<br>12 12 12 12 12 12 12 12 12 12 12 12 12 1 | 2825603052599653388151623422431369<br>164425060736271318934581485060203<br>5802268092927 6473540624290097743<br>12 221131 4144454155241173121 | 426 681516593383851389318675357748848<br>35953341094791245366927388002<br>11322466092779735510506084341<br>113512466092779735510506084341 | 050251820923794689070745185222482<br>49978288983899772920207507263203405<br>008749456210754929052788706112604<br>02651422698485769093331054844612604<br>121 1123 132 414135324442232245 | 474293331717537058552677596841577<br>820718286004830885686579361471433<br>356713496130250761292587211276407<br>373513152628476779492304122623008<br>1 1 111 2 1131431<br>52212 | 5512100890507782794454587878522007766<br>426756051168587012555055550551176697578<br>6887119006089555055056148868555787<br>7625119006089555055056148866855787<br>11 1 2 2 121 5131242155505614886855785<br>11 1 2 2 2 121 515505505056148856855785<br>11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | 258886453962092305558684516271869<br>677 2905511372496969656165558454245<br>1 14 142 5141563245245245245245 |
| %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%                                       | ZZZZZZZZZZZ                              | 090000000000000000000000000000000000000 | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | 1<br>90263154<br>3231379354<br>1<br>4231779154<br>1<br>1<br>5<br>4  | 33719EX<br>12639EX<br>546028<br>1690699<br>42557EX<br>14398EX<br>17838EX<br>32371   | 16149<br>163953<br>7641807<br>1707<br>16778<br>17884<br>17664<br>15649<br>145667<br>1145<br>1145  | $\begin{array}{r}17570 - \\157511 \\2521991 \\2234951 \\2234673 \\122512 \\31251 \\63516 \end{array}$  | 1 2 9 9 4<br>2 9 9 9 0<br>5 0 4 9 7<br>5 1 2 9 5 0<br>5 4 9 7<br>5 4 9 7<br>5 4 9 7<br>1 2 9 9 0<br>5 7 9 7<br>1 2 9 7<br>1 9 7 | 1 325735095   |
| TATE A 3<br>1A102336<br>21102336   | ZZ<br>ZZ                                 | = $($                                   | 1769<br>33064-   | 3 1 8 6 2<br>5 5 3 4 3  | 30093EX<br>88407EX  | 28935<br>44314  | $\begin{array}{r} 1 \\ 1 \\ 4 \\ 4 \\ 9 \\ 3 \\ - \end{array}$   | 23712<br>22025<br>33728   | 1 3 5<br>3 1 1<br>5 1 4   |
| HOMPSON A  |  | Ċ OI<br>MY                              | NE<br>ERS<br>44567-  | 995 <b>=</b>  | 045562 <sub>EX</sub>  | 7205  | 38357-   | 5488  | 24  |
| HREE STAT  |  | NA                                      | <b>F</b>   |   |   |   |  |   | - <b>1</b>  |
| 1M102537   | Ň  | 25                                      | 3171-  | 433   | 3604EX  | 1674  | 1930-  | 1275  | 18  |

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| ALMAT PO<br>DESCRIPTION   | STATES     | EL<br>ACREAGE                          | 1       |                          |       | SYS            | FE                 |        |  |             |          |             |                |            | 1            |        |               | N                                    | 1AR | EAR                 |            |              | <u> </u>   | A       | <u>E:</u><br>⊃R |              | 1        | ACREA                            | IGE (      |
|---|------------|--|---------|--------------------------|-------|----------------|--------------------|--------|--|-------------|----------|-------------|----------------|------------|--------------|--------|---------------|--------------------------------------|-----|---------------------|------------|--------------|------------|---------|-----------------|--------------|----------|----------------------------------|------------|
|   |            | FACTOR                                 |         | ING NET                  | ALLOW | ABLE ±         | ×                  | CF PRO | DUCTI  | NON         | OVE      | RUNDE       | R PRO          | DUCTION    | 푀            | CURREN | IT ALL        | OWABLE                               | EN  | DING NE             | T ALL      | WABLE        | <u>±</u>   | NEW     | ALLOCA          | TION         |          | DELIVER                          |            |
| DEWATER   | p i        | <u>⊢</u> ⊂                             | :p      |                          |       |                |                    |        |  |             |          |             |                |            | ſ            |        |               |                                      |     |                     |            |              |            |         |                 |              |          |                                  |            |
| IF26223   | 6 N        | 100                                    |         | 7                        | 80    | 57-            |                    | 3      | 18   | 326         |          | 3 9         | 6              | 339        | x            |        | 36            | 007                                  | 7   |                     | 36         | 5 2          | 6 -        |         | 57              | 4 0          | 7        | 4 0                              | ) 4        |
| F KING<br>1M 1233   | 6 N        | 100                                    |         | 29                       | 99    | 93             |                    | 4      | 34   | 56          |          | 13          | 34             | 638        | x            | é      | 50            | 867                                  | ,   | 4                   | 74         | 0            | 4          |         | 46              | 32           | 6        | 73                               | ; 2        |
| TATE T<br>11 2243   |            | 100                                    |         | 24                       | ร่า   | 58-            |                    |        |  | 12          |          |             |                | 705        |              |        |               | 509                                  |     | 3                   | 8.6        | 56           | 1 _        | ſ       | 30              | 83           | 3        | 46                               | ; <b>4</b> |
| LIER DRI  |            | NG                                     | co      | ~ -                      |       | . 0            |                    |        | - 0  |             |          |             | - <del>-</del> | 101        |              |        | , .           | 50)                                  |     | 5                   | 0.0        | , .          | Ť          |         | -               |              |          |                                  | -          |
| DOLWORTH  |            |  |         | ~ 4                      |       | 7 0            |                    |        |  | ~           |          |             |                |            |              |        | ~             | 0 <i>c</i> r                         |     | 0                   | 0.0        |              |            |         | ٨               | 77           | 1        | 9                                | <b>,</b> 1 |
|   | 7 N<br>7 N | 5 0<br>5 0                             |         | 24                       | 306   | 39-<br>59-     |                    | 1      | $1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $ | 23          | PO       | 36          | 0              | 8 6 E      | X            |        |               | 267<br>267                           |     | 2                   | 98         | 31<br>)9:    | s _        |         | 2               | 77<br>28     | 5        | 9                                | į          |
| STATES  | ⊃ET        | ROL                                    | EUN     | 1 C                      | ÒN    | PA             | NY                 |        |  |             | ŀ        |             |                |            |              |        |               |                                      |     |                     |            |              |            |         |                 |              |          |                                  |            |
| 1A 6253   | B          |  |         |                          |       | 59-            |                    | . ,    | 87   | 3.8         | Þo       | 18          | 9              | 07E        | $\mathbf{v}$ |        | 2             | 296                                  | ;   | 1                   | 6.6        | 1            | 1 1        |         | 1               | 7 4          | 8        | 5                                | i (        |
|   |            | GAS                                    | 1       |                          | ~~~   |                | 1                  |        | • •  | •••         |          |             |                | • • •      |              |        | ~             | ~                                    |     |                     | •••        |              |            |         | <u>`</u> `      |              |          |                                  |            |
| TES   |            |  | 1       | 7 0                      |       |                |                    |        | ~ <del>-</del>                                       | . c 2       |          | ، .<br>اسیر | ~              |            |              |        | с<br>С        | 777                                  |     | "7                  | 2 0        |              | ė          |         | 6               | 67           |          | 4                                |            |
| INEBRY  | Al 👘       | 98                                     |         |                          |       | 47-            | [                  |        |  |             |          |             |                | 110        |              |        |               | 766                                  |     |                     |            | 4            |            |         |                 |              |          |                                  |            |
| 2D30233<br>7G30233  |            | 100                                    |         | 34                       | 11    | 13 - 1 - 1 - 1 |                    | 51     | 26<br>55   | 79          | ŀ        | 56          | 7              | 2 2 E      | X            |        | 56            | 369<br>349                           |     | 2                   | 9503       | 7            | 3-         |         | L 8             | 51<br>53     | 55       | 8 0<br>2 5                       |            |
| MBEST C<br>1H35233  |            | 200                                    |         |                          | 230   |                |                    |        |  | 41          |          |             |                | 62         |              | .7     | 37            | 588                                  | }   | 6                   | 2 5        | 50           | o          |         |                 | 61           |          | 17                               | , <b>.</b> |
| 0PER<br>2F12243   |            |  | (       | · . `                    |       | 91-            |                    |        |  |             | 6        |             |                | 79Έ        | v I          |        |               | 788                                  | {   |                     |            |              |            |         |                 | 3 8          | - [      | 2                                |            |
| OPERC   |            |  | 1       |                          | 1     | > 4            |                    |        | •  | 73          | 1        |             |                | 77E        |              |        |               | 697                                  | 1 1 |                     |            | 880          |            |         |                 | 5 U          |          | 2                                |            |
| 1G12243<br>WDEN   | •          |  |         |                          |       |                | ,                  |        | 4 ر  |             |          |             |                |            |              |        | -             |                                      |     |                     |            |              |            |         |                 |              | 1        | 6                                |            |
| RRY   | 7 N        |  |         |                          |       | . 2 -          |                    |        |  | 56          |          | 8           |                | 685        |              |        |               | 729                                  |     |                     |            | 3 9          |            |         |                 | 88           |          |                                  |            |
| 1P 1243   |            | 100                                    |         |                          |       | - 4 -          |                    |        |  | 52          | -        |             |                | 5 6 5      |              | 1      | •             | 997                                  |     |                     |            | 5            |            | 1       |                 | 4 1          | - i.     | 12                               |            |
| 1034233<br>LE   | 5 N        | 100                                    |         | 21                       | 95    | 57-            | }                  | 2      | s 8  | 60          |          | 24          | 8 :            | 178        | X            |        | 7             | 516                                  | ·   | <b>J</b> .,         | 73         | O :          | 1 -        |         | 5               | 72           | 4        | 2                                | 8          |
| 1K342230<br>RRINGTOI  |            | 100                                    |         | 5                        | 8 5   | 55             |                    | 1 2    | s ð  | 52          |          | 7           | 0              | 97E        | x            | 1      | 1             | 669                                  |     |                     | 45         | 7 2          | S          |         | 8               | 8 8          | 5        | 8                                |            |
| 10102230  | 5 N        | 100                                    |         | 8                        | 35    | 58-            |                    | 24     | 4 2  | 75          |          | 32          | 6              | 3 3 E      | x            | 5      | 5 O           | 945                                  |     | 1                   | 83         | 1:           | s          | 5       | 8 8             | 77           | 5        | 6 Ó                              | 1          |
| 1D 7253   | 3<br>7 Ň   | 98                                     |         | . 8                      | 76    | 51-            |                    | ž      | 4 0  | <b>4</b> 1  |          | 12          | 8              | 0 2 E      | x            | 1      | 1             | 669                                  |     |                     | 1 1        | 3 :          | 3          |         | 8 8             | 3 8          | 5        | 8                                | e          |
| NES<br>14342230   | 5 N        | 200                                    |         | 11                       | 67    | 5              |                    | 22     | s o  | 04          |          | 10          | 3 :            | 2 9 F.     | x            | 4      | 11            | 301                                  |     | 3                   | οģ         | 72           | e          | 2       | 31              | 4 4          | 1        | 20                               | 2          |
| NKFORD  |            | 100                                    |         |                          | 00    | •              |                    | 82     | s o  | 99          |          | 21          | Ó (            | 9 5 E      | x            | 4      | 5             | 170                                  |     |                     |            | 7 !          |            | 3       | 3 4 1           | 38           | 0        | 52                               |            |
| TKINS<br>19152330   |            |  |         |                          |       | 2 -            |                    |        |  | 16          |          |             |                | 485        |              |        |               | 457                                  |     |                     | 5 2        |              |            | -       |                 | 72           | 1        | 8,                               |            |
| 3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | зΤ         | · · · ·                                |         |                          |       |                |                    |        |  |             |          |             |                |            |              |        |               |                                      |     |                     |            |              | 1          | · .     |                 |              |          |                                  |            |
| 3236223   | 5 N        | 100                                    |         | 43                       | 371   | 8              |                    | 55     | 54   | 48516809403 | .        | 12          | 10             | 4613959999 | x            | 8      | 7             | 1999986860957<br>4537460<br>74509570 |     | 07~NU NN            | ទ្ធ៍ ខ្ញុំ | 520404000400 |            | 4047001 | 767268757238    | 767130051499 | 24796871 | ွှဲခြ                            |            |
| 4 M 3 0 6 6 3 6<br>5 D 3 6 2 2 3 (  | N N        | 100                                    | 1       | 23                       | 01    | 3-             | 1 - <sup>1</sup> k | 46     |  | 17          |          | 5974        | 6              | 3 O E      | X            | 4      | ŝ             | 987                                  |     | ŝ                   | 16         | 4            | 3          | 46      | 2               | 57<br>71     | 9        | 49                               | 6          |
| 6B36223<br>7A35223  | 5 N        |  |         | 12                       | 03    | 3-             |                    | 2 6    | 57<br>30   | 65<br>89    |          | 38          | 7              | 99Ê<br>58  | X            | 3      | 4             | 862<br>789                           |     | 2                   | 39<br>51   | 4            | 7 -        | 1       | 6               | 53           | 6        | 38                               | 010        |
| 8226223   | Ň          | ĨÕõ                                    |         | ្នុទ្ទ័                  | 10    | 4              |                    | 100    | 2 Q  | õğ          | 1        | 17          | õ              | 9 <u>5</u> |              | ~      | )<br>ě        | 464                                  |     | 2                   | 65         | 5            | 3          |         | 7               | ŠŎ           | 7        | Ţŝ                               | 4          |
| 10142231  |            | <b>200</b>                             |         | 12                       | 14    | 1 -            |                    | ē      | 50   | 4 9         | <u> </u> | ~ 0<br>6    | 000            | 9 2 E      | ×            | 22     | 3             | 399                                  |     |                     |            | ē            |            | 1       | 78              |              | ᅯ        | F B                              | 4          |
| 2M242230<br>3P152231  | S M<br>N   |  |         | 84                       |       | 4              |                    | 4      | 10<br>1  | 0438        | ľ        |             |                |            | 1            | 1      | $\frac{2}{7}$ | 745<br>467                           |     | 2<br>1<br>10<br>2 8 | 27<br>13   | 432          |            |         | 23              | 2 4          | 17583    | 12                               | 200        |
| 4G15223   | Ň          | 00000000000000000000000000000000000000 | - 5     | 3377324952448<br>1111 83 | 73    | ī              |                    |        |  |             | 2        | 83<br>38    | 7              | 31         |              | 5      | 0             | 700                                  |     | 28                  | 94         | 3 1          | L          | (5)     | 88              | 5 5          | 3        | 707450 8450 82 66<br>707452 8 12 | 4          |
| 1115223   | S N        | 100                                    | <br>    | 77                       | 58    | 4 -            |                    | 36     | 5 7  | 61          | þ1       | 14          | 34             | 4 5 E      | x            |        |               | 481                                  |     | 9 :                 | 9 8        | 6 4          | <b>t</b> - | 1       | . 1 (           | 52           | 5        | 15                               | C          |
| 3       3 | 5 N        | 100                                    | and the | 20                       | 08    | 4 -            |                    | 11     | LO   | 83          |          | 31          | 10             | 57E        | X            | 2      | 1             | 310                                  |     |                     | 98         | 5            | 7 -        | 1       | . 6 :           | 5 2          | 2        | 21                               | c          |
| 10223   | 1 1        | 200                                    |         | 16                       | 83    | 8              |                    | 29     | 9 6  | 10          |          | 12          | 7              | 720        | x            | 3      | 2             | 540                                  | } . | 1 :                 | 9 7        | 68           | з          |         |                 | 77           |          | 14                               |            |
| IPLEY   |            |  | 1       | -                        | -     |                |                    |        |  |             | 1        |             | -              |            | 1            |        |               | e e                                  |     |                     |            |              |            |         |                 |              | -1       | Т.                               |            |

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2 . Sugaration

|   |          | · · ·     | () A (    | ~        | 0          |                  |         | ~ ~÷       | -          |     |        |              |        |     |          |         |                  |     |            |          | 0.6        | 0              | Þ | AGE      |              | ,           | 3 7.  |        |            |        |
|---|----------|-----------|-----------|----------|------------|------------------|---------|------------|------------|-----|--------|--------------|--------|-----|----------|---------|------------------|-----|------------|----------|------------|----------------|---|----------|--------------|-------------|-------|--------|------------|--------|
| JALMAT POOL<br>DESCRIPTION  |          | ACREAGE   |           | 0        |            | YS               | FEBRI   |            |            |     |        |              |        |     | <u> </u> |         |                  | MA  | YEAR<br>FR | <u> </u> | <u>2 0</u> | <u> </u>       | 1 | AP       | 53           |             |       | 1 10   | REAGE OI   |        |
|   |          | FACTOR    | BEGINNING | IET AL   | LOWAB      | LE :             | MCF PRO |            |            |     | P/UNDI | R PRO        | DUCTIC | n ± | CURRE    | NT ALLO | WABLE            |     | ENDING N   | ET ALI   | 0WA8       | LE ±           |   | NEW AI   | LOCA         | TION        |       |        |            |        |
| 1N272236  | N        | 100       |           | 3        | 72         | 3                |         | 56         | 4 5        |     | ç      | 93           | 68     | EX  |          | S 0     | 999              | 9   | 1          | . 1.     | 53         | 1              |   | 1        | 5 (          | 98          | 86    | 2      | 06         | 7      |
| 1 P 3 5 2 2 3 6   | Ń        | 100       | 3         | 3        | 4 2        | 3                | 5       | 15         | 5 8        |     | 18     | 81           | 35     | EX  |          | 44      | 75:              | 3   | 2          | 6        | 61         | 8              |   | 3        | 4            | 0 6         | 63    | 5      | 20         | 1.     |
| 10 22537  | N        | 25        |           | 1'       | 71         | 0                |         | 11         | 11         |     | :      | <b>8</b> 8   | 21     | EX  |          | 1       | 379              | 9   |            | 1        | 44         | 2 -            |   |          | 1            | 0           | 5 O   |        | 2          |        |
| STEELER C<br>1P192337<br>2N192337   | Ň        | 100       |           |          |            | 3->              |         | 37         | 61<br>14   |     | 18     | 86<br>52     | 84     | EX  |          | . 9     | 51.              | 7   |            | 9        | 16         | 7 -<br>4 -     |   | ٦        | 72           | 24          | 47    | 4      | 55<br>89   | 2<br>9 |
| TÖBY<br>1P122436  | · · .    | 100       |           |          | 52         |                  | 1       |            | 89         |     | ·      | 5 ¢<br>9 Ġ   |        |     |          |         | 40<br>330        |     |            |          |            | 8 -            |   |          |              |             | 10    |        | 18         |        |
| TOBY Ã<br>1A132436  |          | 100       |           |          | 77         |                  |         |            | 45         | 1   |        | 53           |        |     |          |         | 634              |     |            |          |            | 2 -            |   |          |              |             | 53    | 1      | 49         |        |
| WELLS FED<br>1G 62537E  |          |           | 17        | ,        | <b>*</b> 4 | _                |         |            |            |     | 188    |              |        |     |          |         | 843              | ÷ 1 | 17         |          |            | 5              |   |          |              |             | 5 3   | 1      | 38         | 7      |
| WIMBERLY<br>1F232537  | N        | 75        | ·         |          | 44         |                  | ) ·     |            | 39         |     |        | 51           |        |     |          |         | 683              |     | ± 1        |          | 49         |                |   |          |              |             | 51    | · ·    | 64         | 8      |
| WOOLWORTH =<br>14172537   | Ē        |           | 3         |          |            |                  |         |            |            | 1   |        | •            |        |     |          |         | 780              |     | 3          |          |            |                |   | 1<br>4 2 |              |             | ·     | 2      | 17         | 0      |
|   |          | ŕÁĽ       | 3<br>65   | 58       | 35         | <u>;</u>         | 526     | 56         | 4 ĉ        | 4 e | δŏŚ    | 7            | 81     | ĒX  | 71       | 5 9 (   | 534              | 4   | 249        | <u>9</u> | 8 5        | 3              | 5 | 42       | 9 :          | 1 1         | 16    |        |            |        |
| PERMIAN BAS   | 31       | ý p       | IPEL      | ı İ.     | νE         | s                | YSTÉI   | 4          |            |     |        |              |        |     |          |         |                  |     |            |          |            | 2              |   |          |              |             | •     |        | · .        |        |
| AMERADA PET   | R        | ρLέ       | ŲМ        | •        |            |                  |         |            |            |     |        |              |        |     |          |         |                  |     |            |          |            |                |   |          |              |             |       |        |            |        |
| FALBY<br>3K192437   | Ň        | 25        | 1         | 0'       | 72         | 7                |         | 40         | 04         |     | e      | 57           | ŝ3     |     |          | 30      | 54 e             | 5   |            | 9 '      | 76         | 9              |   |          | 2            | 3 1         | L 9   | 1<br>1 | 90         | 4      |
| HODGES<br>11 82437  | Ň        | 100       | 8         | 1 9      | 94         | 6                | 6       | 4 2        | 71         | 1   | 17     | 76           | 75     |     |          | 31:     | 338              | 3   | 4          | 9 0      | 51         | 3              |   | 5        | 38           | 8 5         | 5 3   | 3      | 43         | 1      |
| STATE JCT<br>18162336<br>2G162336   | Ň        | 50        | 1         | 8        | 2 6<br>3 3 | 9                | -       | Ļi         | 43         |     | 1 1    | 78<br>10     | \$ 6   |     |          | 3       | 568<br>311       | 3   | 1          | 1        | 39         | 4              |   |          | 21           | 7 1         | 182   |        | 23<br>17   | 9      |
| STATE LMT<br>2F362336   | N<br>N   | 50<br>100 |           |          | 5.6        |                  |         |            | 3.6        |     |        | 39           |        |     |          |         | 303              |     |            | 11       |            |                |   | 1        | 7 3          | · · ·       | - ×   | 2      | 30         | 1      |
| 5A362336  | Ň        | ίοο       | 1         | 2 :      | ίő         | 5 -              | 4       | 33         | 75         |     | 1      | 55           | 4 õ    | EX  |          | ĩõ      | 595              | 3   | J          | 4 9      | 5 4        | <del>7</del> – |   |          | 80           | ó ĕ         | 56    |        | 69         |        |
| 1G222537  | Ņ        | 38        |           | 9 9      | 33         | 9                |         |            |            |     | 9      | 99           | 39     |     |          | 24      | 4 3 <del>(</del> | ş   | 1          | 2 :      | 37         | 5              |   |          | 1 8          | 8 <u></u> 5 | 55    |        | 14         | 2      |
| STATE A 32  | sik      | HA        |           |          | •          |                  |         |            |            |     | •      |              | •      |     |          |         |                  |     |            |          |            |                |   |          |              |             |       |        |            |        |
| 1E322437  | Ν        | 75        | 3         | 24       | 13         | 4                | 4       | 4 <b>0</b> | 99         |     | 28     | 33           | 3 5    |     | -        |         | ŝóc              |     | 3          | 8 5      | 53         | 5              | - |          | 77           | 7 6         | 56    | 1      | 09         | 1      |
| CHRISTMAS A<br>2H272236   | $\sim 1$ | . (       |           |          |            |                  |         | · .        |            |     |        |              | -      | . 1 |          | -       | ~                |     |            |          |            | <sup>.</sup>   |   | _        | <u> </u>     |             |       |        |            |        |
| J H DAY   |          | 200       | · ·       |          | 16         | 1                |         |            | 75         |     |        | 73           |        |     | e        |         | 557              |     | -          | 5 9      |            |                |   |          | 21           |             |       |        | 81         |        |
| 3N 62236<br>CARTER EAVE   | ŝ        | 4 2<br>A  |           |          | 12         |                  |         |            | 76         |     |        | 31           |        |     | -        |         | 225              |     |            | 23       |            | ÷              |   |          | 70           |             |       | 1.1    | 15         | •      |
| FOWLER HAIR   | 2        | 5 O       |           |          | 59(<br>70  |                  |         |            | 07         | 1   |        | ?:<br>1      |        |     |          |         | 952<br>933       | 1   | T          | 12       | 2 3        |                |   | 1        |              |             | 59    | •      | 71         | 4.1    |
| J R HOLT A  | Ň        | 25        |           |          | 22         |                  |         |            | 66         | 1   |        | ) <u>5</u> ' |        | EX  |          |         | 331              |     | 7          |          | •          |                | 2 |          | 00           |             |       | · ·    | · · 1      | et e l |
| 3NTE 62330<br>E E A 7 R<br>A 14 E 8 2437<br>F 14 E 8 2437<br>J R 16 2 4 37<br>J R 16 2 7 8<br>J R 16 2 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 | NH.      | 75<br>50  |           |          | 5          |                  |         |            | 82<br>18   | J   |        | 11.          | · .    |     |          |         | 743              |     |            | 19       |            | 1.1            | ł |          | 62<br>57     | 1           | j     |        | 9 B<br>7 7 |        |
| J F JANDA F   |          | 200       |           |          | 36         | <sup>2</sup> . 1 |         |            | 12         |     |        | 54!          |        |     |          |         | 569              | `   |            | 4 :      |            |                |   |          | 9 /<br>4 2   |             | 1     | , A    | 52         |        |
| JANDA Ğ STA<br>14242336   |          | 00        |           | 1        | 99         | · · · · ·        |         |            | 1 7<br>8 7 | 1   | -      | 3 2 (        |        |     |          |         | 339              | •   | 11         |          |            |                |   |          | τι τ.<br>Ο ε |             | · · ] | 1      | 11         |        |
| C. E. LA MU<br>40292337   | лй<br>N  | 0 Ň       |           |          | 10:        |                  |         |            | 3 ğ        |     |        | 570          |        |     |          |         | )                | · [ |            | 8 7      |            |                |   |          |              |             | + 0   | 1      | 65         | 1      |
| 21<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>23<br>30<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2   | Ň        | TE        | 54        |          |            |                  | 214     | - <b>1</b> |            | 3   | 27     | .2           |        |     |          |         | 769              | <   | 57         |          |            |                |   |          |              |             |       | · ·    | 28         | 10.1   |
| MANDA C<br>18352336   | Ň        | 25        |           |          | '          |                  |         |            | 74         |     |        | . 1 '        |        | EX  | -        |         | 394              |     | - •        | -        | 26         |                |   |          | 1 6          |             | · 1   |        | 56         |        |
| MANDA C<br>18352336<br>ARNOTT RAMS<br>1M322537<br>ARNOTT RAMS   | A M      | B         | STÁ<br>7  | ТЕ<br>34 | 5 (        | 5                |         |            | <b>61</b>  |     |        | 28           | 1      |     | 2        |         | 883              |     | 7          | 8 6      |            | 1.1.1          |   |          | - C          |             |       |        | 77         | 1      |
| ARNOTT RAMS   |          | B         |           |          |            |                  |         | 2          |            |     |        |              | - 1    |     |          |         |                  |     |            |          |            |                |   |          |              |             |       |        |            |        |

3)

| JALMA<br>DESCRI                |                                 |                     |              | PE<br>ACREAGE<br>FACTOR | L        |             |         |       | FEE        |      | JA   | RY             |     |                |              | UCTION   |    | CHOBEH.     |      |                   | 1AI     | YEAF<br>R |                         |                |             | 1        | AGE<br>AF | R.          |            | 1.4        | CRIAGE<br>LVERAB | OR       |
|--------------------------------|---------------------------------|---------------------|--------------|-------------------------|----------|-------------|---------|-------|------------|------|------|----------------|-----|----------------|--------------|----------|----|-------------|------|-------------------|---------|-----------|-------------------------|----------------|-------------|----------|-----------|-------------|------------|------------|------------------|----------|
| 2H3                            | 225                             | 37                  | N            | 200                     | 1        |             |         | L 9 - |            |      |      | 35             |     |                |              | 5 4 F)   | 1  |             |      | 942               |         | FNDING N  |                         | 38             |             | -j       |           |             | 564        | 1          | 48               | 8 0      |
| 2H3<br>RAMSA<br>201            | Ϋ́Ĕ<br>625                      | 3 5<br>3 7          | T<br>N       | 175                     | 1        |             | 574     |       |            |      |      | 68             |     | 10<br>97       |              |          | `  |             |      | 540               |         | 1 4       | 4                       |                |             |          |           |             | 8 :        |            | 8.8              | 31       |
| RNOT<br>5E1                    | TR.                             | A MÌ                | SA           | Ϋ́Ε<br>175              | 1        |             | 1.80    |       |            |      | -    | 31             | 1   | 49             |              | _        |    |             | -    | 312               |         |           | ) 4                     |                |             |          |           |             | 92         |            | 27:              | 13       |
|                                | AMS.                            | ĀŶ                  | Ş            | F<br>4 0 0              | ļ        |             | 570     | -     |            | 230  |      |                | -   | 06             |              |          |    |             |      | 656               |         |           | 32                      |                |             |          | 24        | 8 5         | 590        |            | 00               | 70       |
| 10 ÖL Ŵ(<br>3 K 3 (            | DRT                             | H I                 |              | 198                     |          |             | 24      | -     |            |      |      | 09             |     | 45             |              | -        |    |             |      | 095               |         |           | 3                       |                |             |          |           |             | 000        |            | 8                |          |
| 4E2:<br>11B                    | ER 4<br>4 2 4<br>1 2 4<br>5 2 4 | B<br>37<br>37<br>37 | = ZZ         | 100<br>500<br>200       | 1        | 24          | 923     | 33    |            | 9    | 3.   | 56<br>82<br>41 | ſ   | 36<br>14<br>35 | 8 8          | 51       |    | 1<br>1<br>6 | SNON | 693<br>899<br>906 | 3       | 10000     | 0<br>7<br>5             | 19<br>75<br>40 | 9<br>0<br>1 |          |           | 98          | 2 !!       | 3 2        | 10<br>70<br>90   | 20       |
| 100LW0<br>4E20                 | 3 2 4                           | H<br>3 7            | N            | 100                     |          | 16          | 507     | ' o'  |            | 4    | 18   | S 6            |     | 20             | 89           | 9 6 FX   |    | 1           | 3    | 4 8 8             | 3       |           | 7                       | 4 C            | 8 -         | -        | 1         | 0 2         | 270        | ) 1        | . 01             | 76       |
| TATE<br>1H                     | A   R<br>15<br>522              | γ<br>3 6            | IL<br>G<br>N | G A<br>1 0 0            | S        |             | <br>206 | ; 2   |            | 4    | 1    | 69             | Po  | 56             | 23           | 5 1 FX   |    |             | 7    | 4 4 C             | 2)<br>> | 4         | 8                       | 79             | 1 -         |          |           | 56          | 67         |            | 27               | 7 8      |
| KELL                           | DHN:                            | 501                 | , C          | 2                       |          |             |         |       |            |      |      |                |     |                |              |          |    |             |      |                   |         |           |                         |                | 1           |          |           |             |            |            |                  |          |
| 4 D 2 (<br>L S<br>7 L 1        | 223                             | 37                  | Ň            | 100                     | ł        |             | 200     |       |            |      |      | 90             | 1   | 33             |              |          |    | 1           |      | 517               |         |           | 6                       |                | ч.,         |          | 1         |             | 68         |            | 09<br>27         |          |
| 711<br>EXAC                    |                                 | 37                  |              | LOO                     |          | 18          | s o 7   | 2     |            | 2    | ; 4  | 32             |     | 20             | 50           | • 4 EX   |    |             | 7    | 417               |         | 1         | 3 (                     | 0.8            | 7 -         |          |           | 56          | 49         | 1          | ~ (              | י ש<br>י |
| TATE<br>3D10                   | B 1<br>5 2 3 5                  | 36                  | т<br>Ñ       | 200                     |          | 3 E         | 355     | 59    |            | 9    | 00   | 3 5            |     | 29             | 5 2          | <b>4</b> |    |             | 9    | 441               | -       | 3         | 3 9                     | 9.6            | 5<br>5      |          |           | 71          | 89         |            | 54               |          |
|                                | 524                             | 37                  |              |                         | 24       | 56          |         | 7     | 10         | 18   | 32   | 48<br>01       | 14  | 37<br>35       | 86<br>86     | 36       | 1  |             |      | 204               |         | 272       | 4 9                     | 0<br>9<br>0    | 7<br>6      |          | 9 7<br>7  | 75<br>89    | 56<br>01   |            | 07               | 7 3      |
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#### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 1941 Order No. R-1655

APPLICATION OF JAL OIL COMPANY FOR EXCEPTIONS TO VARIOUS PROVI-SIONS OF ORDERS R-520, R-967, AND R-1092-A FOR 3 WELLS IN THE JALMAT GAS POOL, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 13, 1960, at Hobbs, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this  $25^{-7}$  day of April, 1960, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant is the owner and operator of the following-described wells in the Jalmat Gas Pool, Lea County, New Mexico:

Dyer Well Ho. 3, SE/4 NE/4 of Section 31, Township 25 North, Range 37 East

Owans Well No. 1, SW/4 SW/4 of Section 21, Township 25 South, Range 37 East

Watkins Well No. 2, SE/4 NE/4 of Section 35, Township 24 South, Range 36 Bast.

(3) That according to the testimony presented, each of the above-described wells makes a considerable amount of water, the Dyer Well Mo. 3 approximately 35 barrels per day, the Owens Well Mo. 1 approximately 40 barrels per day, and the Watkins Well Mo. 2 approximately 250 barrels per day.

(4) That all of the above-described wells were the

-2-CASE No. 1941 Order No. R-1655

subject of an Examiner Hearing in Case No. 1779, heard October 7, 1959, after which hearing the said Dyer Well No. 3, which was subject to complete shut-in for being more than six times over-produced, was exempt from complete shut-in and the operator was permitted to make up this well's over-production by producing it at a monthly rate not to exceed 75% of the well's current allowable or at a rate not to exceed 75% of the well's average monthly allowable for the preceding six-month proration period, whichever was greater.

(5) That at the time of the said Examiner Hearing the said Owens Well No. 1 and the said Watkins Well No. 2 were substantially in balance. Since these two wells were not subject to shut-in for over-production, it was the opinion of the Commission that no relief was necessary.

(6) That the latest gas production figures show that the Owens Well No. 1 is under-produced rather than over-produced and thus it apparently needs no relief.

(7) That the said Watkins Well No. 2 is approximately twelve times over-produced and, under the provision of Order R-520 and Order R-967, is subject to complete shut-in until such time as it becomes less than six times over-produced.

(8) That due to liquid problems, the applicant should be permitted to produce the said Watkins Well No. 2 at a monthly rate not to exceed 75% of the well's current allowable, or at a monthly rate not to exceed 75% of the well's average monthly allowable for the preceding six-month provation period, whichever is greater.

(9) That due to liquid problems, the applicant seeks an order cancelling the over-production incurred by each of the subject wells and exampting these wells from the requirements of an Annual Deliverability Test. In addition, the applicant requests that these wells be exampt from prorationing as it is now practiced under the Jalmat Gas Pool rules.

(10) That the said Watkins Well No. 2, which makes a substantial amount of water, is being produced without a freepistom or pump-jack installation, even though applicant's experience with other wells in the same general area has been that such mechanical devices are useful in keeping water unloaded from well bores.

(11) That the water produced from the said Owens Well No. 1 is being lifted by means of a free-piston installation. Such an installation requires that the water be lifted by gas production, and if the gas allowable assigned to this well is insufficient to keep the water unloaded from the well, the operator could install a pump-jack to accomplish this purpose. -3-CASE No. 1941 Order No. R-1655

(12) That a pump-jack has recently been installed in the said Dyer Well No. 3 and the evidence does not establish that this installation is inadequate to keep the water unloaded from this well.

(13) That a pump-jack installation operates independently of gas production and, from an engineering standpoint, there appears to be no reason why such an installation, if properly sized cannot keep the formation clear of water, while keeping the gas production at a level within the gas allowable assigned to the well.

(14) That the applicant has apparently made no study or investigation to determine where the water produced by the subject wells is coming from. Further, the applicant has apparently made no study to determine whether remedial work can be performed in order to shut off the water production.

(15) That the applicant has not made a study to determine whether or not it would be feasible to produce the wells in such a manner as to keep the formation clear of water and then reinject the amount of produced gas which is in excess of the allowable assigned to well.

(16) That according to the applicant's testimony as to the recoverable reserves underlying the tracts dedicated to each of the subject wells, the applicant should be willing to perform the remedial work necessary to alleviate these water problems, or to install such mechanical installations as are necessary to keep the formation clear of water, since such work would apparently be economically feasible.

(17) That 160 acres is dedicated to the said Dyer Well No. 3, 80 acres is dedicated to the said Owens Well No. 1, and 40 acres is dedicated to the said Watkins Well No. 2, so that even in the event that the production from one or more of these wells is lost due to water encroachment, which event should not occur if the operator makes every effort to prevent it, there should be no <u>ultimate</u> loss of gas from the Jalmat Gas Pool, inasmuch as one well in this Pool will efficiently and economically drain 640 acres, and the gas underlying the tracts dedicated to each of the subject wells presumably would be produced from offset wells.

(18) That in regard to certain of the applicant's wells, a re-dedication of acreage would be feasible and could result in an increase of the per well allowable.

(19) That to cancel the over-production which the subject wells have thus far incurred would impair the correlative rights of other operators in the Jalmat Gas Pool, and to permit any well to consistently produce more gas than is assigned as an -4-CASE No. 1941 Order No. R-1655

allowable to such well in accordance with the proration formula for the pool would impair the correlative rights of other operators in the pool.

(20) That since the allowable assigned to wells in the Jalmat Gas Fool is dependent in part upon a well's calculated deliverability as determined by an Annual Deliverability Test, the subject wells should not be exempt from such test. Presumably the reason for the applicant's request that the subject wells be exempt from Deliverability Test is so that they will not have to be shut-in prior to the pre-flow period. This shut-in period can and should be dispensed with by allowing the applicant to use the highest of the shut-in pressures of the four nearest wells in the Jalmat Gas Pool in taking the Deliverability Test on each of the subject wells.

(21) That the applicant has failed to establish any compelling reason why the Commission should exempt the subject wells from gas provationing, an action which would be a radical departure from present Commission policy and which would have far-reaching effects.

IT IS THEREFORE ORDERED:

(1) That the application of Jal Oil Company for an order exempting the following-described wells in the Jalmat Gas Pool from gas provationing, and for an order cancelling the overproduction insumed by each of the said wells and exempting them from deliverability tests be and the same is hereby denied:

> Dyer Well No. 3, SE/4 NE/4 of Section 31, Township 25 South, Range 37 East

Owens Well No. 1, SW/4 SW/4 of Section 21, Township 25 South, Range 37 Mast

Natking Well No. 2, SH/4 MH/4 of Section 35, Township 24 South, Range 36 Hast

all in Lea County, New Mexico.

(2) That the operator be and the same is hereby authorized to compensate for the over-production incurred by the said Watkins Well Mo. 2 by producing it at a monthly rate not to exceed 75% of the well's current allowable or at a monthly rate not to exceed 75% of the well's average monthly allowable for the preceding six-month provation period, whichever is greater.

(3) That is taking the Annual Deliverability Test on each of the above-described wells, the operator be and the

-5. CASE No. 1941 Order No. R-1655

esz/

same is hereby authorized to use the highest of the shut-in pressures of the four nearest wells in the Jalmat Gas Pool.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

"he ray

JOHN BURROUGHS, Chairman

Malloza

MURRAY E. MORGAN, Member

kiter PORTER, Jr., Member & Secretary

#### GIRAND & STOUT LAWYERS NEW MEXICO BANK AND TRUST CO. BUILOING HOBBS, NEW MEXICO

W. D. GIRAND LOWELL STOUT

May 10, 1960

TELEPHONE: EXPRESS 3-9116 Post Office Box 1445

Oil Conservation Commission State Capitol Santa Fe, New Mexico

### Attention: Mr. A. L. Porter

Gentlemen:

I enclose original and two copies of Motion for Rehearing in Case No. 1941. I would appreciate your advising writer the action of the Commission in connection with the granting of the rehearing.

Respectfully submitted,

GIRAND & STOUT

BY:

16 60

Enclosures G/jw

cc: Jal Oil Company Box 1744 Midland, Texas

cc: Olsen Oils, Inc. Liberty Bank Bldg. Oklahoma City 2, Oklahoma 2

# BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 1941 Order No. R-1655

APPLICATION OF JAL OIL COMPANY FOR EXCEPTIONS TO VARIOUS PROVI-SIONS OF ORDERS R-520, R-967, AND R-1092-A FOR 3 WELLS IN THE JALMAT GAS POOL, LEA COUNTY, NEW MEXICO.

### MOTION FOR REHEARING

COMES NOW the Jal Oil Company, a New Mexico corporation with principal office in Midland, Midland County, Texas, and files this its Motion for Rehearing on the above entitled and numbered application, and for cause would show:

1. That the above numbered application was heard on April 13, 1960, and thereafter on April 25, 1960, the Commission entered its order thereon; that in said order the Commission made twenty-one findings and denied the relief prayed for by the applicant. Applicant excepts to the findings made by the Commission numbered 10, 13, 14, 15, 16, 17, 18, 19 and 21 for the reason that said findings are not supported by any evidence offered at the hearing.

2. That the Commission has ignored entirely the uncontroverted proof offered by the applicant to the effect that all of said wells are connected to low pressure gathering lines having an operating pressure of approximately 100 pounds, being the minimum required under contract; that the subject wells produce large volumes of water in connection with the production of gas and the only method of producing being that of artificial means, i.e. pump-jack or floating piston, that the rate of gas

flow cannot be regulated because of the rate of flow of the encroaching water; that tests show on the Watkins No. 2 that the minimum rate of gas the well should be allowed to produce in order to prevent premature abandonment of said well was 375 MCF's per day; this test was made by the El Paso Natural Gas Company, i.e. that the gas proration schedule for the Jalmat Gas Pool for the month of March disclosed 387 gas wells; that the applicant owned and operated 10 of these wells, thereby owning 2.584% of the producing gas wells in the pool. It further showed that the total daily allowable for gas from the Jalmat Gas Pool was 8,600,945 MCF's and that the allowable attributable to applicant's wells was 131,666 MCF's or 1.531% of the total gas allowable to said wells, i.e. that applicant had combined in the record the testimony in Case No. 1779 heard by the Commission on October 7, 1959, and that from said date of the subject wells involved in the prior application, three of said wells had been entirely lost and incapable of being placed back on production, this loss of wells due to shut-in being the undisputed testimony of all witnesses as shown by the record in two cases, i.e. that the Commission failed to find that the subject wells were allowed to produce for more than one year as marginal wells before being reclassified and upon their reclassification were charged with all production for a 12-month period, bringing about a considerable over-production which could have been averted had the wells been timely reclassified in accordance with the rules, i.e. that the Commission has ignored the mandate of the statute which requires the Commission to act to prevent the premature abandonment of wells due to the encroachment of water and the Commission failed to determine that there

is no basis for marginal wells under a gas proration order which provides for a deliverability test.

WHEREFORE, applicant prays that this application be set for rehearing and upon final determination the applicant be granted the relief as originally prayed for.

JAL OIL COMPANY

Girand, Attorney N. D.

|                |  |                  |           |                | /         | с.<br>1. с. с. с. К. |           |         |
|----------------|--|------------------|-----------|----------------|-----------|----------------------|-----------|---------|
|                |  |                  | DYER      | #3 1407        | JENKIN    | s #1. Mor            |           | #2 MCF  |
|                |  | \$               | A110c8110 | n <u>Pro</u> a | Allocatio | n Prod.              | Allocatio |         |
|                |  | <u>Jan. 1958</u> | 21,556    | 12,293         | 21,556    | 15,264               | 21,556    | 15,406  |
|                |  | Feb.             | 21,105    | 11,616         | 21,105    | 12,719               | 21,105    | 13,501  |
|                |  | March            | 19,938    | 11,627         | 19,938    | 13,586               | 19,938    | 13,637  |
|                | <u>.</u>                               | April            | 14,944    | 10,044         | 14,944    | 10,868               | 14,944    | 9,550   |
|                |  | May              | -15,119   | 9,360          | /16,033   | 12,822               | /17,880   | 10,853  |
|                |  | June             | / 15,119  | 11,830         | 16,033    | 14,162               | 17,880    | 13,934  |
|                |  | July             | 15,119    | 11,976         | 16,033    | 14,489               | 17,880    | 32,014  |
| •              | 0                                      | Aug.             | 15,119    | 8,056          | 16,033    | 14,484               | 17,880    | 11,897  |
|                | 960                                    | Sept.            | 15,119    | 10,386         | 16,033    | 8,989                | 17,880    | 13,009  |
|                |  | Oct.             | 15,119    | 11,043         | 16,033    | 13,217               | 17,880    | 13,536  |
|                | <b>F</b>                               | Nov.             | 15,119    | 10, 527        | 16,033    | 13,664               | 17,880    | 11,248  |
|                | JUNE JUNE                              | Dec.             | 15,119    | 8,785          | 16,033    | 8,998                | 17,880    | 9,352   |
|                | ALLOCATION ANI<br>58 THRU JUNE         | Total 1958       | 198,495   | 127,543        | 205,807   | 153,262              | 220,583   | 147,937 |
|                | LL00                                   | Jan. 1959        | 15,119    | 10,930         | 16,033    | 11,359               | 17,880    | 12,978  |
|                | AI C                                   | Feb.             | 15,119    | 9,286          | 16,033    | 11,007               | 17,880    | 7,629   |
|                | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | March            | 15,119    | 10,229         | 16,033    | 10,828               | 17,880    | 12,560  |
|                | VIHTNOM                                | April            | 15,119    | 8,850          | 16,033    | 12,373               | 17,880    | 10,847  |
|                | NAL                                    | May              | 15,119    | 8,460          | 16,033    | 11,751               | 17,880    | 7,991   |
|                | 27                                     | June             | 15,119    | 5,645          | 16,033    | 7,688                | 17,880    | 6,084   |
|                | _ 8                                    | July             | ~10,192   | 6,412          | 13,702    | 9,863                | 14,033    | 10,138  |
|                | PROM                                   | Aug              | (3,305    | 4,710          | 4,442     | 4,812                | 4,549     | 8,702   |
| 14<br>14<br>14 | 24                                     | Sept.            | 5,312     | 5,059          | 7,133     | 6,760                | 7,304     | 8,894   |
| •              | S O                                    | Oct.             | 6,001     | 4,671          | 8,035     | 3,149                | 8,226     | 13,256  |
|                | SUMMARY                                | Nov.             | 6,691     | 663            | 8,970     | 1,534                | 9,185     | 13,238  |
|                | SUMMAR<br>PRODUCTION                   | Dec.             | 8,469     | 151            | 11,387    | 2,188                | 11,662    | 14,201  |
|                | PRO                                    | Total 1959       | 130,684   | 75,066         | 149,867   | 93,312               | 162,239   | 126,518 |
|                |  | Jan. 1960        | 4,294     | 1,398          | 5,778     | 501                  | 5,917     | 11,804  |
|                |  | Feb.             | 2,542     | 3,752          | 3,422     | 11                   | 3,505     | 11,013  |
|                |  | March            | 6,993     | 4,892          | 9,411     | 144                  | 9,638     | 8,886   |
|                |  | April            | 5,326     | 3,434          | 7,166     | 150                  | 7,339     | 2,286   |
|                |  | May              | 4,607     | 3,751          | 6,200     | 100                  | 6,350     | 2,784   |
|                |  | June             | 3,416     | 6,566          | 4,591     | 970                  | 4,702     | 7,086   |
| -<br>28-1      |  | •                | 27,178    | 23,793         | 36,568    | 1,876                | 37,451    | 43,859  |
| <b>b</b>       |  | •                | 356,357   | 226,402        | 392,242   | 248,450              | 420,273   | 318,314 |

| E. OWEN #1 MCF<br>Allocation $Prod.$<br>10,778 17,92<br>10,552 13,928<br>9,969 14,59<br>7,472 9,588<br>23,847 7,266<br>8,568 3,183<br>1,145 -0-<br>1,587 -0-<br>1,587 -0-<br>1,587 -0-<br>2,935 -0-<br>2,935 -0-<br>81,756 66,483<br>3,741 -0-<br>1,996 -0-<br>1,968 1,364<br>1,384 -0-<br>319 -0-<br>2,061 -0-<br>5,707 -0-<br>1,851 -0-<br>2,973 -0-<br>3,354 43<br>3,742 852<br>4,742 3,338 | Allocat<br>5<br>8<br>7<br>0<br>6<br>7<br>7<br>3<br>3,469<br>1,834<br>1,834<br>4<br>1,822<br>1,282<br>295<br>1,913 | 10,211<br>11,665<br>21,876<br>2,001<br>2,499<br>51<br>17<br>244<br>63 | Gjedle:       |
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| 3,354 43<br>3,742 852  | 1,209   |   | •             |
| <b>3,742</b> 852   | 1,940   |   |               |
|  |   |   |               |
| 4,142 J,JJC  |   |   |               |
|  | 3,098   | 6,501   |               |
| <b>33,83</b> 8 5,597   | 25,213  | 22,932  |               |
| 2,405 1,034  | 1,572   | 9,642   |               |
| 1,424 1,539  | 931   | 6,849   |               |
| <b>3,917</b> 910   | 2,561   | 5,890   | · · ·         |
| 2,983 89   | 1,950   | 2,165   |               |
| 2,581 -0-  | 1,687   | -0-   |               |
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| 15,222 3,572   | 9,950   | 24,546  | •             |
| 130,816 75,652   | · · · · · · · · · · · · · · · · · · ·   | 69,354  |               |

# NEW MEXICO OIL CONSERVATION COMMISSION

PURCHASER"S NOMINATIONS FOR CRUDE OIL - AUGUST, 1960

# SOUTHEAST NEW MEXICO

| Continental                | 15,000  | +1,500 |        |
|----------------------------|---------|--------|--------|
| Famariss                   | 10      |        |        |
| Atlantic                   | 4,515   | + 305  |        |
| Cactus                     | 4,902   | + 281  |        |
| Cities Service             | 10,800  | ×      |        |
| Gulf                       | 20,000  | -1,000 |        |
| Mobil                      | 22,690  | - 925  |        |
| Phillips                   | 2,100   |        |        |
| Shell                      | 37,600  | +2,900 |        |
| Indiana                    | 52,000  | ·      |        |
| Sinclair                   | 29,000  |        |        |
| Texaco                     | 32,000  |        |        |
| Tidewater                  | 3,500   |        |        |
| McWood                     | 5,772   | +1,633 | *(920) |
| Permian                    | 3,264   | - 147  |        |
| Graridge                   | 255     | - 7    |        |
| High Lonesome              | 400     |        |        |
| Neil H. Wills              | 464     | + 464  | **     |
| TOTAL SOUTHEAST NEW MEXICO | 244,272 | +5,004 |        |

# NORTHWEST NEW MEXICO

| McWood                     | 348     | + 34   |  |
|----------------------------|---------|--------|--|
| El Paso                    | 9,200   | +300   |  |
| Shell                      | 33,000  |        |  |
| Gulf                       | 3,200   | +100   |  |
| Oriental                   | 275     | + 25   |  |
| Vanadium                   | 27      |        |  |
| TOTAL NORTHWEST NEW MEXICO | 46,050  | +459   |  |
| TOTAL NEW MEXICO           | 290,322 | +5,463 |  |

Formerly Nominated By Mobil Oil Company
Formerly Nominated By Continental Oil Company

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do.

## LEGAL \$2 NE SE 31~255~37E Lea County, New Mexico

The Legal #2 is a Jalmat gas well produced with a free piston installation installed in March, 1958. This well was produced as a marginal well until the middle of 1959 when it was then reclassified as a non-marginal retroactive to July, 1958, and assessed with on over produced status of 77,837 mcf. This well's production was reduced some and each time the well was shutin or died it became more difficult to get it back on production.

This well, prior to the installation of the free piston, was averaging approx. 13,563 mcf per month. The latter month the production was dropping and the water encroachment was increasing, so the piston was installed. From March, 1958 to July, 1959 the well averaged 10,899 mcf. This average is lower than the approx. 9 months average prior to the piston installation because of the increasing water condition and pressure drop. From July, 1959, the well's production was restricted some, trying to determine a rate of flow in which the well would not log off, and its monthly average was 10,242 mcf.

In May, 1960, the well produced 2,784 mcf. 2,343 mcf's were produced from May 1st through 12th. The well was then shutin and same logged off. Approx. May 18, 1960, the well was allowed to produce unrestricted. The following is a daily summary of the well's activity.

- 5-23-60 Well was logged off. There was no production from May 12 to this date. The Oil Conservation Commission was notified of our plans to swab this well in.
- 5-24-60 Swab unit rigged up, fished piston and swabbed three hours. Free piston was allowed to run several times to air to unload fluid. Produced approx. 4 bbls. oil and 12 bbls. water. Piston setting was approx. 45 minuted on and 90 minutes off. Well produced approx. 97 mcf. Mr. L. A. Clements with the Oil Conservation Councission witnessed the above procedure. After the above swabbing, the unit was released and the well died approx. 3 times this day and was blown in each time. A continuous watch was kept on this well to see that same was not logged off for any period of time to avoid having to call a swab unit back. El Paso line pressure was approx. 173#, casing pressure was 225#.

Page Two, Legal #2

- 5-25-60 Well produced approx. 6 mcz. El Paso's line pressure was approx. 222\$, The well was blown in approx. three times but would not take the line and unload the fluid.
- 5-26-60 Well produced approx. 75 mcf. Well was blown in twice and took the line for only a short period of time before it logged off. El Paso's line pressure was approx. 205#. Piston setting was set for 30 minutes on and 30 minutes off. Tubing pressure 220#.
- 5-27-60 Well produced approx. 20 mcf. Casing pressure was 250#, El Paso line pressure was approx. 118#. Approx. 14 bbls. fluid were produced, same being approx. 12 bbls. water and 2 bbls. cil. Well was logged off most of this day. Well was blown in twice unloading above fluid but would not take the line.
- 5-28-60 Well produced approx. 193 mcf gas with approx. 15 bbls. fluid (12 bbls. water and 3 bbls. oil). El Paso's line pressure was approx. 205#. Gas flow was weak and logged, at 3:30 p. m. well was blown in.
- 5-29-60 Well produced approx. 35 mcf gas, approx. 1 bbl. oil and 6 bbls. water. Well was blown in twice as piston was not running, but well would not take El Paso's line for any length of time. El Paso's line pressure was approx. 212#.
- 5-30-60 Well produced approx. 7 mcf gas, approx. 1 bbl. oil and approx. 10 bbls. water. Casing pressure 250%, tubing pressure 200% and El Paso's line pressure approx. 243%. Well was blown in to relieve fluid from formation but well would not take El Paso's line.
- 5-31-60 Well produced approx. 8 mcf, piston setting still approx. 30 minutes on, 30 minutes off. Well was blown in for 1 hour and 45 minutes to unload fluid. Shutin for 2 hours to build pressure, then turned into El Paso's line. Well would not buck El Paso's line pressure of approx. 2124.

From May 24, 1960 to June 1, 1960, well produced 441 mcf gas.

Page Three, Legal #2

- 6-1-60 Well produced approx. 29 mcf gas, approx. 2 bbls. oll and approx. 12 bbls. water. El Paso's line pressure approx. 192#. Free platon was not running, caught same and checked, found okay. Well too weak to take line, casing pressure 250#, well was blown in twice this day.
- 6-2-60 Well produced approx. 20 mcf. Well was blown in and produced approx. 1 bbl. oil and 6 bbls. water. El Paso's line pressure was approx. 205# average.
- 6-3-60 Welk produced approx. 242 mcf with approx. 3 bbls. oil and 20 bbls. water. Well started out taking the line but was weak. El Paso's line pressure was approx. 179#. Well then started producing all right.
- 6-4-60 Well produced approx. 232 mcf. Water was not estimated. Well doing okay. El Paso's line pressure approx. 167#, casing pressure 250#.
- 6-5-60 Well produced approx. 260 mcf with approx. 3 bbls. oil and 20 bbls. water. Casing pressure 250#, El Paso line pressure approx. 158#.
- 6-6-60 Well produced approx. 265 mcf, approx. 3 bbls. oil and 20 bbls. water. Casing pressure 260%, El Paso's line pressure approx. 161%.
- 6-7-60 Well produced approx. 275 mcf, approx. 3 bbls. oil and 12 bbls. water. Casing pressure 260#, El Paso line pressure approx. 136#.
- 6-8-60 Well produced approx. 275 mcf with approx. 3 bbls. oil and 12 bbls. water. Casing pressure 260%, El Paso line pressure approx. 133#.

From June 1, 1960 to June 9, 1960, well produced 1,598 mcf gas.

6-9-60 Well produced approx. 313 mcf with approx. 3 bbls. oil and 18 bbls. water. Casing pressure 250#, El Paso line pressure approx. 144#. Well still set approx. 30 minutes on and 30 minutes off. Page Four, Legal #2

- 6-10-60 Well produced approx. 261 mcf with approx. 2 bbls. oil and 12 bbls. water. Casing pressure 240%, El Paso line pressure approx. 167%.
- 6-11-60 Well produced approx. 261 mcf with approx. 3 bbls. cil and 12 bbls. water. Casing pressure 240%, El Paso line pressure approx. 167%.
- 6-12-60 Well produced approx. 56 mcf with approx. 3 bbls. oil and 12 bbls. water. Casing pressure 200#. Blew well in twice but it would not take the line. El Paso's line pressure approx. 212#.
- 6-13-60 Well produced approx. 284 mcf. Casing pressure 220#. El Paso's line pressure approx. 176#.
- 6-14-60 Well produced approx. 309 mcf. Casing pressure 220#. El Paso's line pressure approx. 173#.
- 6-15-60 Well produced approx. 296 mcf with approx. 3 bbls. oil and 18 bbls. water. Casing pressure 230#. El Paso's line pressure approx. 176#.
- 6-16-60 Well produced approx. 292 mcf with approx. 2 bbls. oil and 12 bbls. water. Casing pressure 250#. El Paso's line pressure approx. 179#.

From June 9th to June 17, 1960, well produced 2,074 mcf.

- 6-17-60 Well produced approx. 292 mcf. El Paso line pressure approx. 185#.
- 6-18-60 Well produced approx. 293 mcf, approx. 2 bbls. oil and 14 bbls. water. Casing pressure 250#. Blew well in one time to catch piston and check same. El Paso line pressure approx. 185#.
- 6-19-60 Well produced approx. 280 mcf, approx. 2 bbls. oil and 16 bbls. water. Casing pressure 250%. El Paso line pressure approx. 192#.

Page Five, Legal #2

- 6-20-60 Well produced approx. 257 mcf., approx. 2 bbls. oil and 18 bbls. water. Casing pressure 250%. El Paso line pressure approx. 185%. Well was blown in twice this day.
- 6-21-60 Hell produced approx. 193 mcf, approx. 2 bbls. oil and 14 bbls. water. Gasing pressure 250%.
- 6-22-60 Well produced approx. 286 mcK. Casing pressure 250%. El Paso line pressure approx. 176%. Gas Chart removed this date.

From June 17th to June 23, 1960, well produced 1601 mcf.

- 6-23-60 Well produced approx. 270 mcf, approx. 1 bbl. oil and 12 bbls. water. Casing pressure 250#, El Paso line pressure approx. 176#.
- 6-24-60 Well produced approx. 274 wcf. Blew well in as it was flowing weak. El Paso line pressure approx. 173#.
- 6-25-60 Well produced approx. 277 mcf, approx. 2 bbls. oil and 18 bbls. water. El Paso line pressure approx. 158#.
- 6-26-60 Well produced approx. 278 mcf, approx. 2 bbls. oil and 16 bbls. water. Blew well in once - El Paso line pressure approx. 161#.
- 6-27-60 Well produced approx. 100 mcf. El Paso line pressure approx. 231#.
- 6-28-60 Well produced approx. 110 mcf, approx. 1 bbl. oil and 16 bbls. water. Blew well in twice. El Paso line pressure approx. 225#.
- 6-29-60 Well produced approx. 241 mcf, approx. 1 bbl. oil and 16 bbls. water. El Paso line pressure approx. 1854. Line pressure dropped to approx. 155# allowing production to increase.
- 6-30-60 Well produced approx. 263 mcf, approx. 3 bbls. oil and 20 bbls. water. Casing pressure 250#. El Paso line pressure approx. 167#.

From June 23 to July 1, 1960, well produced 1,813 mcf.

# DYER #3 SE NW 31-25S-37E Lea Co. New Mexico

The Dyer #3 is a Jalmat gas well produced by a pump jack installed January 21, 1960. Prior to January 21st this well produced with a free piston installation which was installed in December 1956. This gas well had a water encroachment problem so great in 1956 that it was unable to produce naturally, consequently the free piston was installed. This procedure of producing worked satisfactorily for a long period of time. The well was reclassified in 1959 retroactive to July 1958 from a marginal well to a nonmarginal well and assessed with an over produced status of 63,666 mcf. Due to cut back in production the last half of 1959 the water encroachment became too great for the free piston, so the pump jack was installed to relieve the formation of the water and allow the gas to penetrate the well bore.

In 1958 and the first 6 months of 1959 this well averaged 10,052 mcf per month, after the cut back in July 1959 the well averaged 3,611 mcf per month for the last 6 months of 1959, dropping so badly in December 1959 it only produced 151 mcf. The pump jack was installed January 1960 and for the 4 months thereafter it averaged 3,957 mcf per month.

In May 1960 the well produced 3,751 mcf, 2,477 mcf up to May 11th when the well was shut down. The well was then allowed to produce unrestricted approximately May 18, 1960 and the following is a daily summary from the time the well was placed back on production.

- 5-23-60 The pump jack has been running and chart showed first production today. Well produced 89 mcf. El Paso line pressure approx. 164#.
- 5-24-60 Well produced approx. 185 mcf gas with a trace of oil and water was not gauged. Pump jack was running and producing water through tubing. Mr. L. A. Clements with Oil Conservation Commission took a look at this well on this date. El Paso line pressure approx. 159#.
- 5-25-60 Well produced approx. 140 mcf. El Paso line pressure up to approx. 227# average, line pressure was off the 250# chart for a short period and gas production dropped to -0-.

Page 2 - Dyer #3

- 5-26-60 Well produced approx. 210 mcf. gas and approx. 12 bbls water, pump jack was shut down part of this day. El Paso line pressure was approx. 199#.
- 5-27-60 Well produced approx. 190 mcf. gas, water amount not shown. El Paso liue pressure approx. 194#.
- 5-28-60 Well produced approx. 140 mcf. gas, water amount not shown. El Paso line pressure approx. 199#.
- 5-29-60 Well produced approx. 110 mcf gas, pump jack was down and was started. El Paso line pressure approx. 208#.
- 5-30-60 Well produced approx. 30 mcf gas and 6 bbls water, pump jack pumped approx. 1/2 day. El Paso line pressure approx. 237# causing drop in production.
- 5-31-60 Well produced approx. 180 mcf gas and 12 bbls water. El Paso line pressure approx. 210#.

From May 23 through May 31 well produced 1,274 mcf.

- 6-1-60 Well produced approx. 212 mcf. gas and 12 bbls water and small amount of oil. Pump jack was shut down part of this day as pump had pumped off. El Paso line pressure approx. 185#.
- 6-2-60 Well produced approx. 175 mcf., well down approx. 4 hrs. due to El Paso line repair, pump jack down also. Line pressure up to approx. 237# for approx. 16 hours. then dropped to approx. 181#. Well showed increased production when line pressure dropped.
- 6-3-60 Well produced approx. 185 mcf. pump jack shut down. El Paso line pressure approx. 176#.
- 6-4-60 Well produced approx. 174 mcf., pump jack shut down. El Paso line pressure approx. 159#.
- 6-5-60 Well produced approx. 160 mcf. El Paso line pressure 151#.
- 6-6-60 Well produced approx. 106 mcf. El Paso line pressure approx. 159#.

Page 3 ~ Dyer #3

- 6-7-60 Well produced 300 mcf., pump jack running and El Paso line pressure approx. 132#.
- 6-8-60 Well produced approx. 308 mcf. El Paso line pressure approx. 130#. Fump jack shut down.

For the period June 1 to June 9, 1960 the well produced 1,620 mcf gas.

6-9-60 Well produced approx. 313 mcf, 2 bbls oil and 15 bbls. water. Casing pressure 125#. El Paso's line pressure was approx. 135#.

6-10-60 Well produced approx. 23D mcf. Casing pressure 210#, El Paso's production.

- 6-11-60 Well produced approx. 192 mcf. Casing pressure 220#, El Paso's line pressure approx. 159#.
- 6-12-60 Well produced approx. 37 mcf, 2 bbls oil and 12 bbls water. Casing pressure 250#, El Paso's line pressure approx. 199#. Well would not buck line pressure most of this day. Pump jack was started.

6-13-60 Well produced approx. 158 mcf gas, 1 bbl oil and 6 bbls water. Casing pressure 220#. Pump jack found dead and started same. El Paso's line pressure approx. 155#.

- 6-14-60 Well produced approx. 288 mcf gas, approx. 2 bbls oil and 12 bbls water. Casing pressure 220#, El Paso's line pressure approx. 168#. Fump jack died about 2:00 p.m.
- 6-15-60 Well produced approx. 296 mcf gas. Casing pressure 225#. El Paso's line pressure approx. 168#.
- 6-16-60 Well produced approx. 272 mcf with approx 2 bbls oil and 12 bbls water. Casing pressure 230#. El Paso's line pressure approx. 159#.

From June 9 to June 17, 1960 well produced 1,786 mcf gas.

6-17-60 Well produced approx. 205 mcf, approx. 2 bbls oil and 12 bbls water. Casing pressure 230#. El Paso line pressure approx. 176#. Page 4 - Dyer #3

- 6-18-60 Well produced approx. 261 mcf with a trace of oil and 12 bbls water. Casing pressure 250#, El Paso's line pressure approx. 176#. Pump jack running.
- 6-19-60 Well produced approx. 242 mcf, approx. 1 bbl oil and 12 bbls water. Casing pressure 240%, El Paso's line pressure approx. 181#.
- 6-20-60 Well produced approx. 238 mcf, approx. 1 bbl oil and 18 bbls water. Casing pressure 250#, El Paso's line pressure approx. 176#. Pump jack down, repairing stuffing box.
- 6-21-60 Well produced approx. 203 mcf, Casing pressure 240#. El Paso's line pressure approx. 176#.
- 6-22-60 Well produced approx. 257 mcf. El Paso line pressure approx. 165#. Pump jack running. The 8 day gas chart was removed today.

From June 17 to June 23 well produced 1,406 mcf.

- 6-23-60 Well produced approx. 248 mcf, approx. 2 bbls oil and 12 bbls water. Pump jack running. Casing pressure 250#. El Paso's line pressure approx. 168#.
- 6-24-60 Well produced approx. 242 mcf, No estimate on water. Pump jack shut down. Casing pressure 250#. El Paso's line pressure ranged from approx. 151# to 199#.
- 6-25-60 Well produced approx. 267 mcf. Approx 1 bbl oil and 12 bbls water. Pump jack shut down and repaired stuffing box. El Paso's line pressure approx. 149#.
- 6-26-60 Well produced approx. 257 mcf. Pump jack was started. El Paso's line pressure approx. 153#.
- 6-27-60 Well produced approx. 127 mcf. El Paso's line pressure approx. 227#. Pump jack running.
- 6-28-60 Well produced approx 141 mcf. Pump jack started. Casing pressure 250#. El Paso's line pressure approx. 217#.
- 6-29-60 Well produced approx. 226 mcf. Pump jack died during night. Casing pressure 250#. El Paso's line pressure approx. 181#. The line pressure varied this day dropping to approx 147# for part of the day.

Page 5 - Dyer #3

6-30=60 Well produced approx. 246 mcf. El Paso's line pressure approx. 159#. Pump jack not running.

Well produced 1,754 mcf from June 23 to July 1, 1960.



## EVA OVEN #1 SV SV 21-258-37E Lea County, New Mexico

The Eva Owen #1 is a Jalmat ges well operated by a free piston installation installed in November, 1956. This installation was necessary to keep the well on a producing status as the water problem was too great for the well to flow naturally.

The first quarter of 1958 the well averaged 15,483 mcf per month. It averaged 11,080 mcf for the first half of 1958 at which time it was shutin by the 011 Conservation Commission for over production and was shutin until October, 1959. The well at this time was in balance and a considerable amount of time and expense was devoted to trying to bring the well back to a producing status. The water encroachment problem had become so great during its shutin period that the well has not been restored to a producing status with the installation of the piston. In October, 1959, the well produced 43 mcf. In November, 1959, 852 mcf. In December, 1959, 3,338 mcf. In January, 1960, 1,034 mcf. In February, 1960, 1,539 mcf. In March, 1960, 910 mcf. April, 1960, 89 mcf and in May, 1960, production was -0-.

Approximately June 15, 1960, an extended effort was begun to bring the well to a producing status and the following is a summary of activity for this well. Prior to June 15, 1960, the well was blown in several times to see if some would take El Paso's line, but it would not do so.

- 6-15-60 The Oil Conservation Commission was notified and Mr. Clements witnessed the following work. Rigged up swab unit, fished piston, ran swab 3 times and flowed well to air for approx. I hour and well died. Pulled swab 1 time and well flowed approx. 45 minutes and died. Ran swab twice to kick well off. Well producing sulphur water, amount upon ermined at this time. Casing pressure at 2:00 p. m. 280%.
- 6-16-60 Well producing approx. 40 bbls. water but unable to buck El Paso line. Casing pressure 500#, tubing pressure 300#. Intermitter set 1 hour on and 2 hours off. Well was blown at 8:30 a. m. and 4:30 p. m.
- 6-17-60 Well was blown in one time and vented to air to unload water but well logged off. Well produced approx. 40 bbls. water. Casing pressure 500#.

Page Two, Eva Owen #1

6-18-60 Well logged off and master valve shut in to build up pressure to blow well in. Casing pressure 500%.

6-19-60 Tried to blow well in but it did not respond.

6-20-60 Well logged off and will not respond to blowing in. 6-21-60 to 7-1-60 Well logged off.

# JENKIKS #1 SW SW 29-255-37B Lea County, New Mexico

The Jenkins #1 is a Jalmet Las well produced by a free piston installation installed October, 1956. This installation was necessary due to a water encroachment problem which would not allow the well to flow if it had been shut down for a short period of time. This well was producing under a marginal well allowable until June, 1959, when it was reclassified as a non-marginal retroactive to

July, 1958, and assessed with an over produced status of 82,897 mcf. This well produced in 1958 and to June 1959 an average of 12,387

mcf per month. The last half of 1959 the well's production was cut back and averaged 5,142 mcf per month. The water encroachment problem and cut back on production has caused the well's ability to produce to drop almost to zero. For the first five months of 1960 the well has produced an average of 181 mcf's per month.

Approximately May 18, 1960, the well was allowed to produce unre-

- stracted and the following is a daily summary of the well's activity. 5-23 to 6-2-60 well was logged off. Several attempts were made to
  - restore it to a producing status but were unsuccessful.
- 6-2-60 Pulled 2" tubing to sand pump and cleaned out well. Mr. Joe D. Ramey was notified and witnessed the above.

- 6-3 to 6-7-60 Sand pumping well.
- 6-7-60

Ran 2" tubing and swabbed well. 6-8-60

Swabbing well.

6-9-60

Swabbed well - hooked up to intermitter and ran free piston several times. Well produced approx. 108 mcf, and a light show of cil with intermitter set approx. 30 minutes on and 30 minutes off. El Paso line pressure

6-10-60 Well produced approx. 71 mcf gas, approx. 2 bbls. oil and 10 bbls. water. El Paso's line pressure approx. 150#,

Page Two, Jenkins #1

6-11-60 Well produced approx. 51 mcf gas, approx. 3 bbls. 011 and 12 bbls. water. El Paso's line pressure approx. 155#. Free piston was caught and checked as well, appeared weak against line pressure. Casing pressure 2258.

6-12-60 Well produced approx. 32 mcf gas, approx. 2 bbls. oil and 16 bbls. water. Well was blown in for 1 hour to unload water as piston was not running. El Paso's line pressure approx. 199#. Casing pressure 250#.

6-13-60 Well produced approx. 57 mcf gas, approx. 2 bbls. oil and 12 bbls. water. El Paso's line pressure approx. 155#. Well was blown in twice as well was weak. Casing pressure

- 6-14-60 Well produced approx. 46 mcf. gas, approx. 1 bbl. oil and 12 bbls. water. Well was blown in twice to keep from logging off. El Paso's line pressure approx. 161#, casing
- 6-15-60 Well produced approx. 46 ucf gas with trace of oil and approx. 18 bbls. water. El Paso's line pressure approx. 161#. Mr. Clements with the Oil Conservation Commission was on location today. Blew well to air piston, came up with estimated 2 bbls. fluid, same being muddy with a trace

6-16-60 Well produced approx. 48 mcf gas, approx. 1 bbl. oil and 18 bbls. water. El Paso line pressure approx. 167#. Well was blown in once this day, casing pressure 250#.

From June 9 to June 17 well produced 459 mcf.

- 6-17-60 Well produced approx. 44 mcf, approx. 1 bbl. oil and 16 bbls. water. Well was blown in once. Casing pressure 250#. El Paso's line pressure approx. 173#.

6-18-60 Well produced approx. 42 mcf, piston not running, blew in to unload fluid. Casing pressure 250#. El Paso's line pressure approx. 173#.

Page Three, Jenkins #1

- 6-19-60 Well produced approx. 52 mcf, approx. 1 bbl. oil and 16 bbls. water. Casing pressure 240%. El Paso's line pressure approx. 179%.
- 6-20-60 Well produced approx. 48 mcf with a trace of oil and 18 bbls. water. Casing pressure 250%. El Paso's line pressure appron. 173%. Piston not running so well was blown in to
- 6-21-60 Well produced approx. 48 mcf., approx. 1 bbl. oil and 12 bbls. water. El Paso line pressure approx. 173#.
- 6-22-60 Well produced approx. 46 mcf with a trace of oil. El Paso's line pressure approx. 161# and 8 day chart was pulled this day.

Gas produced from 6-17-60 to 6-23-60 - 280 mcf.

- 6-23-60 Well produced approx. 56 mcf, approx. 1 bbl. oil and 16 bbls. water. El Paso line pressure approx. 167#. Casing pressure 250#.
- 6-24-60 Well produced approx. 18 mcf. El Paso line pressure ranged from approx. 144% to 167%.
- 6-25-60 Well produced about 10 mcf. El Paso line pressure approx. 150#. Shut in by El Paso - choke valve leaking in meter run.
- 6-26-60 Well produced approx. 7 mcf. El Paso line pressure approx. 138#. Shut in by El Paso checking for leak in meter run.
- 6-27-60 Well produced 6 mcf. El Paso line pressure approx. 225#. Choke closed by El Paso for text.
- 6-28-60 Well produced 23 mcf. El Paso line pressure approx. 198#. El Paso opened choke. Well heavily loaded with water. Ran piston several times to unload fluid.
- 6-29-60 Weil produced approx. 49 mcf., approx. 1 bbl. oil and 15 bbls. water. Casing pressure 400%. El Paso line pressure ranged from approx. 143 # to 222#.

Page Four, Jenkins #1

6-30-60 Well produced approx. 62 mcf. El Paso line pressure approx. 155#.

From June 23 to July 1, 1960, well produced 231 mcf.

# WATKINS #2 SE NE 35-248-36E Lea County, New Mexico

The Watkins #2 is a Jalmat gas well completed in August, 1958, spaced on a 40 acre spacing. Well was connected to El Paso line November 7, 1958. For the balance of November and December, 1958 the well produced 21,876 mcf. Due to the low allowable, this well was shut in most of 1959, producing only a few days each month. The well averaged producing 1,911 mcf per month. During 1959 the water encroachment problem became so great the well would not unload the fluid naturally. The latter part of 1959 the well was producing approximately 200 to 250 barrels of water per producing day and had to be swabbed in each time it was shutin for any period Considerable study was given to this well to determine a minimum rate of flow at which the well would unload the fluid and not log off. On March 7, 1960, El Paso wrote two letters to Mr. Girand setting out various facts surrounding this well and that a minimum flow of 325 mcf per day would be required to keep the well from logging off. The casing pressure had dropped to 360# on March 31, 1960 where it had been 900 some months prior. The wells production from January through May, 1960 ranged from

9,642 mcf in January to -O- in May. The latter part of May the Oil Conservation Commission was notified this well would be reworked to bring it back to a producing status. The following is a summary of this wells activity from May 23, 1960.

5-24-60 Set Baker plug at 2930' and perforated 3 sections. 2850-70 5-26-60 Pan 24" rubing with proken 2894-2902

- 5-27-60 Set Halliburton packer at 2884, sand fracked with 3,000
- gal., well sanded up, unable to swab. Lower zone only. Freed swab, reverse circulated to bottom and rigged up to 5-28-60

5-29-60 Swabbed well in, well started to flow. 5-30-60 Flowed well in test tank, fluid 6 bbls. per hour, est. 95%

5-31-60 Well flowing in test tank 5 bbls. per hour, est. 98% water.

# Page Two, Watkins #2

6-1-60 Well flowed an estimated 2 bbls. oil and 100 bbls. water in test tenk - turned well into El Paso line.

6-2-60 to 6-14-60 Well logged off.

6-15-60 Rigged up swab unit. Found fluid in well 700' from top. Ran swab two times. Well flowing weak with large heads of water. Ran swab several more times and then started pulling tubing. This was witnessed by Mr. Clements with the Oil Conservation Commission.

6-16-60 Pulling tubing.

# 6-17-60 Tried to run Halliburton plug on line. Same would not go. Ran back in hole on tubing.

6-18-60 Set plug. Ran Halliburton R-3 packer for treating zone from

6-19-60 Stand by to treat well.

6-20-60 Swab tested zone from 2850' to 2870'.

6-21-60 Ran swab and recovered 300' sulphur water. Rig down unit. 6-22-60 Pulled tubing and packer to test zone 2810' to 2820'.

6-23-60 Plugged off bottom and swab tested zone 2810' to 2820'.

6-24-60 Swab tested. No gas.

6-25-60 Rigged down and moved swab unit.

6-26-60 to 7-1-60

Shut in pending additional rework.

S. R. COOPER #1 BW SE NE Section 23-24-36E Les County, New Maxico

The S. R. Cooper #1 is a Jaluat gas well produced by free piston installed in the spring of 1956. Prior to this installation the well was re-completed in January 1955 by plugging back to 3127 feet, with a 4½ inch liner set from 5132 to 2733 feet. The well was perforated in the Tates from 3020 to 3104 and completed as a Jaluat gas well. The well was originally completed at 3160, being plugged from total depth of 3600. The 1955 recompletion was done in an effort to shut off water.

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From September, 1950, through June, 1959, this well averaged 5,260 mef per month. (For the period July, 1959, through April, 1960, after the eutback the well averaged 3,529 mef per month.) During the same period it produced an average of 16 barrels of water per day for the first 10 months but, during the last 10 months after the well was required to be shut in much of the time, it increased in water to an average of 25 barrels per day. In May, 1960, the well unde no gas the entire wonth, being shut in during said period.

In June, 1960, the well produced approximately as follows:

| 6/ 1/00;         | No production. |
|------------------|----------------|
| 6/ 2/601         | No production. |
| <b>6/ 3/6</b> 0: | No production. |
| 6/ 4/60:         | No production. |
| 6/ 5/60:         | No production. |
| 6/ 6/60;         | No production. |
| 6/ 7/60:         | No production. |
| 6/ 8/00;         | No production. |
| 6/ 9/00:         | No production. |
| 6/10/60;         | No production. |
| 4/11/601         | No production. |

| 6/12/60;             | No production.   |
|----------------------|--|
| 6/13/60;             | No production.   |
| 6/14/60:             | No production.   |
| 6/15/691             | No production,   |
| 6/16/491             | Produced approx. 250 mef gas. 16 barrals water, 1,000<br>erifice. Line pressure 1690. On approx. 22 hours. |
| 6/17/601             | Produced approx. 215 mef gas, 25 barrels water, 1,000<br>crifics. Line presents 1694, On 22 bours.         |
| 6/18/60:             | Produced approx, 201 mef gas, 25 barrels water, 1,000<br>orifice. Line pressure 165%. Nours not shown.     |
| 6/19/60:             | Produced approx, 195 mef gas, 16 barrels water, 1,000<br>erifice. Line pressure 115#. On approx, 22 hours. |
| \$/2 <b>\$</b> /\$0; | Produced approx. 204 mef gas, 25 barrele water, 1,000<br>orifice. Line pressure 1120. Hours not shown.     |
| 4/21/601             | No production.   |
| 6/21/601             | Re production.   |
| 6/23/001             | De production.   |
| 6/34/50:             | No production.   |
| 6/25/00;             | No production.   |
| 6/26/04:             | No production.   |
| 6/27/801             | Bo production.   |
|                      | le production.   |
| 6/29/00:             | No production.   |
| 6/36/00:             | Se groduction.   |

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-2-

El Paso shows this well produced 1,076 mof gas during this pariod.

Since we do not have necess at this time to the integrated charts of El Pass for the period subsequent to July 1, we must rely on the field reports, as follows:

- 7/1/60: Field shows 195 wef gas, 25 barrals water, 1.000 orifice, 1164 line pressure. Hours not shown.
- 7/2/40: Field shows 207 wef gas, 25 barrals water, 1.000 orifice, 1220 line pressure. Hours not shows.
- 7/3/00: Field shows 205 met gas, 17 barrals water, 1,000 orifice, 122# line pressure, produked approx, 20 hrs.
- 7/4/40: Field shows 205 mef gas, 25 barrals water, 1.000 orifice, 1200 line pressure, prod. spprox. 22 hrs.
- 7/3/40: Field shows 137 usf gas, 23 barrels water, 1,000 orifics, 1070 line pressure, prod. approx. 22 hrs.
- 7/6/60; Field shows 196 mef gas, 18 barrols water, 1.000 orifics, 1120 line pressure, prod. syprex. 19 hrs.
- 7/7/60: Field shows 213 met gas, 23 barrels water, 1.000 orifies, 1144 line pressure, pred. approx. 22 hrs.
- 7/8/60; Field shows 197 mef gas, 17 berrols unter, 1,000 orifics, 11d# line pressure, prod. approx. 22 hrs.
- 11 Pase shows total 7/1/40 to 7/8/60 as 1,597 wef.

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VINNINGHAM #3 NE SE Section 30-258-37E Les County, New Merico

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The Winningham #3 is a Jalmat gas well produced by pump jack installed September 23, 1999. Prior to this installation this well, due to the encroachment of water, produced with a free ploten installation, installed subsequent to the time it une plugged back and recompleted in the Yates zone in September, 1954. Frier to plugging back, the well was completed, according to at 3090 to 3075 foot.

The free piston installation was unsatisfactory for the reason it could not handle the volume of water necessary to be lifted to allow the gas to feed into KI Paso's line. Therefore, the pump jack was installed in an effort to keep the well pro-

Prom September, 1956, through June, 1930, this well averaged 11,251 mef per month. For the period July, 1939, through April, 1966 after the outback the well averaged 5,798 mef per month. During the same period, it produced an average of 7.5 berrels of after the well use required to be shut in much of the last 10 months transed in water to an average of 36 berrels per day. In May the berrels of water per day or a total for the month of approximately 936 berrels.

Attached is the delly production record of the well,

In June 1960 the well produced approximately as

- follows;
- 6/ 1/60: No production.
- 6/ 2/60: No production.
- 6/ 9/60: Produced 478 mcf (approximately) of gas, 30 barrols water, 1.250 orifice. Line pressure 170%.
- 6/4/60: Produced approx. 500 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 116%.
- 6/ 5/60: Produced approx. 505 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 116%.
- 6/6/60: Produced approx. 466 mof gas, 30 barrels water, 1.250 orifice. Line pressure 117%.
- 6/7/60: Produced approximately 562 mcf gas, 30 barrels water, 1.250 orifica. Line pressure 114//.
- 6/8/60: Produced approx. 573 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 114//.
- 6/9/60: Produced approx. 534 mof gas, 28 barrels water, 1.250 orifice. Line pressure 114#.
- 6/10/60: Produced approx. 506 mof gas, 30 barrels water, 1.250 orifice. Line pressure 115#.
- 6/11/60: No production.

all an day with

- 6/13/60: No production.
- 6/14/60: No production.
- 6/15/60: No production.
- 6/16/60: No production.
- 6/17/60: Yo production.
- 6/18/60: No production.

•*2*-•
6/19/60: No production.

6/20/60: No production.

6/21/60: No production.

6/22/60: No production.

6/23/60: No production.

6/24/60: No production.

6/25/60: No production.

6/26/60: No production.

6/27/60: No production.

6/28/60: No production.

6/29/60: No production.

•

6/30/60: Produced approx. 469 mcf gas, 26 barrels water, 1.250 orifice. Line pressure 114#.

7/1/60: Produced approx. 354 mof gas, 30 barrels water, 1.250 orifice. Line pressure 116#.

El Paso shows this well produced 5027 mcf gas during this period.

For the month of July up to date, we are unable to accertain the amounts produced from E1 Paso's integrated charts, as they are not yet available to us. However, we do have the reports from the field (being field calculations) as set out below:

7/2/60: Field shows 734 mcf gas, 30 barrels water, 1.250 orifice, line pressure 134#.

7/8/60: Field some 735 mcf gas, 30 barrels water, 1.250 orifice, line pressure 138/.

-3-

| //4/40; | Field shows 725 mef gas, 50 barrels water, orifica 1.250, line pressure 154#.         |
|---------|---|
| 7/5/00; | Field shows 667 mof gas, 50 barrels water, 1.250 orifics,<br>line pressure 1350.      |
| 7/6/40: | Field shows 442 mef gas, 30 barrels water, 1.250 crifice,<br>line pressure not shows. |
| 7/7/60: | Field shows 401 mof gas, 30 barrels water, 1.230 orifice,<br>line pressure 136#.      |
| 7/8/60; | Field shows 490 mef gas, 30 barrels water, 1.250 orifice,                             |
|         | Field above the set   |

line pressure 149#.

El Paso shows total 7/2/00 to 7/9/40 as 4,148 mof.

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# PROPOSED SPECIAL POOL RULES FOR JALMAT GAS POOL TO PROVIDE FOR CLASSIFICATION OF DISTRESSED WELLS

(All rules below will be added as anondments or additions to the Special Rules and Regulations for the jaimst Gas Poel in Order R-1670.)

#### Rule & (A) 1:

The Pool Allowable remaining after deducting the total allowable assigned to marginal wells and distressed wells shall be ellocated among the non-marginal wells in the Fool as follower

## Mainting Rule 2 (A) 1 (a).

## Rule 8 (A) 4

No well emorpt a distress well shall be assigned an allowable until a deliverability test has been filed with the Commission and approved.

## Rule 10 (A)

A marginal well shall be assigned an allowable equal to its mentaum perdection during my menth of the processing gas procession period. A distronge well, as herebusher defined, shall be allowed to produce the amount of gas necessary to maintain production unler production methods approved by the Commission.

#### Rule 10 (M)

The Pool Allowable remaining after deducting the total allowable assigned to marghini wells and distruct wells, shall be allocated among the men-marginal wells emitted to an allowable in the jakmet Gas Pool.

### Rule 15 (A)

A well electrified as a distrume well shall be enough from the provisions of General Rule 15 (A).

## Raio 20

All wells not elemethod as marginal wells or distross wells shall be classified as son-marginal wells.

#### Rule 16 4Ck

The Secretary-Director of the Comminsten may electricy a well as a distrong well without notice and bearing where application has been filed in des form and where the following hasts exist and the following provisions are complied white

"The submit of the sector is the sector of the

Proposed Special Pool Rules for Jalmat Gas Pool to Provide for Classification of Distressed Wells Page 2.

- 1) The operator shows that he has exercised due diligence and used all feasible means to maintain the well in a producible condition and maintain the well in a producible condition and
  - a) The well is predicing through artificial means with a free flowing platon or pump jack, or from other mechanical means, and the well is making water in such amounts as after a 72-hour shut-in period the well becomes logged off and is mable to be restored to production after being swabbed for not less than 24 hours, or;
  - b) The operator shows that it is unconnectedly feasible to utilize mechanical aids to maintain the well on production;
- That all acroage belonging to the operator capable of being assigned to said well has been dedicated;
- 3) The operator must farmish to the Commission a report giving in detail all pertinent data with respect to the method employed by the operator in preducing the well senght to be classified as a distress well, and such other and further information as the Commission may desire from time to time;
- f) The applicant pressels written concert in the form of univers from all operators effecting across dedicated to the proposed distressed will;
- 5) In Sion of 4) of this Rule, the applicant may founds proof of the fast that said effort operators were astilled by registered well and furnished the same information as was furnished in their application to the Commission with respect to the proposed distruct well. The Secretary-Director of the Commission may classify the well as a distress well if, after a period of twenty days following the mailing of said notice, no operator has made objection to the classification of the proposed distress well.

of protest is received hearing is necessar

Shouldende low Present line.

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|  | BEFORE THE  |    |
| and the second sec | OIL CONSERVATION COMMISSION   |    |
|  | HOBBS, NEW MEXICO   |    |
|  | APRIL 13, 1960  | j  |
|  |   |    |
| -  | · · · · · · · · · · · · · · · · · · ·   | j  |
| 1M   | I THE MATTER OF:  |    |
|  |   |    |
| CA   | SE 1941 Application of Jal Oil Company for exceptions to :  | }  |
|  | various provisions of Orders R-520, R-967, and :  |    |
| ŭ, ziti  | R-1092-A for 5 wells in the Jalmat Gas Pool, Lea:   |    |
|  | County, New Mexico. Applicant, in the above- : styled cause, seeks an order cancelling the over-:       | ļ  |
|  | production incurred by the following described :  | }  |
| 214  | wells in the Jalmat Gas Pool:   |    |
| : ()   |   |    |
| *  | Legal Well No. 2, NE/4 SE/4, Section 31 :   |    |
| 4  | Dyer Well No. 3, SE/4 NE/4, Section 31 :  |    |
|  | Jenkins Well No. 1, SW/4 SW/4, Section 29 :<br>Owens Well No. 1, SW/4 SW/4, Section 21 :                |    |
|  | all in Township 25 South, Range 37 East, and the :  |    |
| 24   |   |    |
|  | Watkins Well No. 2, SE/4 NE/4, Section 35, :  |    |
| 3  | Township 24 South, Range 36 East. :   |    |
|  |   | ]  |
|  | Applicant further seeks an exception to the de- :<br>liverability test requirements of said Orders for: |    |
|  | each of the above-described wells and also seeks :  | 1  |
|  | an exemption from prorationing as required by the:  |    |
|  | Special Rules and Regulations for the Jalmat Gas :  |    |
|  | Pool. :   |    |
|  |   |    |
|  |   |    |
| BEF  | FORE:   |    |
| ÷  |   |    |
|  | John Burroughs  |    |
|  | Braist Brivator   |    |
|  | A. L. Porter  |    |
|  | TRANSCRIPT OF PROCEEDINGS   |    |
|  |   |    |
|  | MR. PORTER: We will proceed at this time to Case 1941.  |    |
|  |   |    |
|  | MR. PAYNE: Case 1941. Application of Jal Oil Company  |    |
| for  | r exceptions to various provisions of Orders R-520, R-967, and  |    |
|  |   |    |
|  |   |    |
|  |   |    |
|  | DEARNLEY - MEIER & ASSOCIATES<br>GENERAL LAW REPORTERS  |    |
|  | ALBUQUERQUE, NEW MEXICO<br>Phone CHapel 3-6691  |    |
| NE .   |   |    |

R-1092-A.

MR. GIRAND: If the Commission please, I would like to have the record show W. D. Girand of Hobbs, New Mexico, Mr. T. Murray Robinson of Oklahoma City, appearing on behalf of the Appli-

At this time, if the Commission please, in regard to the application of 1941, we desire to delete the wells designated as Legal Well No. 2 and the Jenkins Well No. 1. The applicant will attempt to recomplete those wells, and there will be some testimony offered in the course of what they propose to do in regard to those.

At this time we would like to have Mr. Hardwick and Mr. Dewey Watson sworn, please. This will be all my witnesses.

> (Witnesses sworn) MR. GIRAND: Call Mr. Hardwick, please.

E. D. HARDWICK,

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. GIRAND:

A

State your name, please. Q

E. D. Hardwick. Α

And where do you live, Mr. Hardwick? Q

Midland, Texas. A

By whom are you employed and in what capacity? **ର**ୁ

Jal Oil Company, Inc. Vice president.

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9:**6** 

Q Mr. Hardwick, you are familiar with the application filed by the Jal Oil Company in Case 1911 where the Jal Oil Company desires exceptions to various provisions of Orders R-520, R-967, and R-1092-A for 5 wells in the Jalmat Gas Pool, Lea County, New Mexico?

A I am.

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Q In connection with that application, did you at my request, prepare certain information in regard to each of the wells?

A I did.

(Whereupon, Applicant's Exhibit No. 1 was marked for identification.)

Q Mr. Hardwick, I hand you here what has been identified as Applicant's Exhibit No. 1, being a copy of the "Southeast Gas Proration Schedule" prepared by the New Mexico Oil Conservation Commission for the month of April. I direct your attention to the page showing the April, 1960 Southeast Gas Proration Pool Balancing Schedule.

MR. PORTER: Does that page have a number?

MR. GIRAND: No, sir, the pages are unnumbered. It's the third page.

Q (By Mr. Girand) In the lower right hand corner of that Exhibit, that page of the Exhibit, there appears a computation in regard to the Jalmat Gas Pool, does it not?

A Yes.

'Q Now, what is the allowable as established for the month of April, by that schedule?

DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691 A Six million, five hundred and forty-one thousand, nine hundred and twenty-six MCF.

Q All right. And how much of that allowable is assigned to marginal wells? Is that shown on the Exhibit?

A I don't believe any of it is assigned margins.

Q There is no allowable assigned to the margin of wells in that Exhibit?

A I don't see it.

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Q All right. How many wells does it show are producing in the Jalmat Pool for the month of April?

A Three hundred and eighty-five wells.

Q All right. Now, directing your attention to Page 31 of the Exhibit, I will ask you whether or not the Exhibit shows on Page 31 the allowable assigned to the wells in question, the Dyer No. 3, the Watkins No. 2, and the Owens No. 1?

A Yes. It does show for April.

Q Now, directing your attention to those particular wells, will you read into the record the figures that are shown in regard to the particular wells.--

A The Dyer No. 3 --

Q

Q -- and identify them by calling them as designated in the report?

A Dyer No. 3 has an allowable of 5,326 MCF's under "April New Allocation" column.

All right. What was the Watkins No. 2?

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| ى الكليف المحمد المالية المراجع المحمد المراجع المراجع المراجع المراجع المراجع المراجع المحمد المراجع المراجع ا<br>المراجع المحمد المراجع ا  | A Watkins No. 2 has an allowable of 1,950 MCF's for April,   |
| * \$ * J *   | new allocation.  |
| he   | Q And in regard to the Eva Owen No. 1?   |
| <b>f</b> (   | A Eva Owen No. 1 has 2,983 MCF's for April, new allocation.  |
| Naji<br>El E   |  |
| ¥3   | Q Are all of these wells overproduced at the present time?   |
|  | A No. The Eva Owen No. 1 is not overproduced, according to   |
|  | this schedule.   |
|  | Q Now, in regard to the Dyer No. 3 and the Watkins No. 2,  |
| - 2<br>- 3   | are those wells overproduced at the present time?  |
|  | A Yes.   |
|  | Q Are they overproduced more than the tolerance allowed by   |
|  | the Orders of the Commission?  |
| *  | A Appears so.  |
|  | Q Mr. Hardwick, has the Jal Oil Company had their properties   |
|  | evaluated by a petroleum engineer to determine the reserves under  |
|  | additional wells?  |
| ¥  | A They have.   |
| Ž  | Q Who prepared that report?  |
| ŧ.   | A Ira Brinkerhoff, oil and gas consultant.   |
|  | (Whereupon, Applicant's Exhibit<br>No. 2 was marked for identifi-<br>cation.)                            |
| 2<br>2<br>2  | Q Mr. Hardwick, I hand you here what has been identified as  |
|  | Applicant's Exhibit No. 2, and ask you to state whether or not that                                      |
| -<br>-<br>-<br>-   | is a reproduction of a part of the report prepared by the petroleum                                      |
|  | engineer you referred to?  |
| ••••••••••••••••••••••••••••••••••••••   | DEARNLEY - MEIER & ASSOCIATES<br>GENERAL LAW REPORTERS<br>ALBUQUERQUE, NEW MEXICO<br>Phone Chapel 3-6691 |
| ningen an einer stater aus die seiner aus die seine |  |

A Yes, it is. Now, in connection with that Exhibit, does that Exhibit Q show the reserves as of October the 1st, 1959, attributable to the wells in question? A Yes, sir. 14 Directing your attention to those particular wells, being Q the Legal No. 2, the Eva Owen No. 1, and the Watkins No. 2, I will 1.2 ask you to read into the record the reserves as determined by the engineer attributable to those particular wells and identify it by wells, please sir. The Dyer No. 3, being the first one on the list; all the A reserves on this report listed under high pressure gas are for the Dyer No. 3. The reserves unrecovered are future reserves, October, 159 were 2,648,289 MCF. That is the Dyer No. 3 listed under "Gas Wells" column. The Exhibit shows it as one--Q It shows it as one gas well. A Q -- one gas well. Which is all in the zone leased. A It doesn't give the well number. Proceed, Mr. Hardwick. Q. The next well in question is the Jenkins No. 1, which, A according to this report, there are two gas wells listed on this report. In discussing, it was decided that for this information, the reserves would be divided in half, and the original reserves being 2,358,190 MCF's, and I did not divide the production listed DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE. NEW MEXICO Phone CHapel 3-6691

"Cumulated to 10-1-59", but I do have it through December 1959, which is 891,756, leaving a remaining future recovery of 1,466,443 MCF's.

Q Now, that is exhibited as of the end of December?

A Yes, because there were two wells listed in this. I quoted it in that manner.

Q All right. Now, directing your attention to the Eva Owen No. 1 --

A The Eva Owen No. 1, as listed on the October 1959 report, shows an unrecovered future reserve of 1,897,873 MCF.

Q Now, Mr. Hardwick, in connection with your study --withdraw that question. Go ahead with Watkins No. 2, if you will, please.

A The last well under question of this report is on the 2nd page of the reserves report, same being Watkins No. 2, showing unrecovered future reserves of 2,871,421 MCF.

Q Now, Mr. Hardwick, in connection with your study of the problem, did you prepare an analysis showing the number of Jalmat wells and the number of Jal Oil Company wells, and the percentage of Jal Oil Company wells to total wells in the Jalmat area, and also the total Jalmat allowable and the amount of gas that was assigned to the Jal Oil Company, Jalmat allowable, and the percentage of Jal's allowable to the total allowable of the pool?

> (Thereupon, Applicant's Exhibit No. 3 was marked for identification.)

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I did.

Α

Q Now, that Exhibit No. 3, directing your attention to it, covers the allowables as established for the month of March, 1960; is that correct?

A That's correct.

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Q For the purpose of the record, will you read what that report shows?

A. It shows the total Jalmat wells, 387. Jal Oil Company has 10 wells in this pool, for a percentage of 2.584 percent.

Q All right. Now, what does it show in regard to the allowable assigned to the Jalmat Pool for the month of March, 1950?

A The total allowable for the month of March for the Jalmat Pool was 8,600,945 MCF's. Jal Oil Company allowable was 131,666 MCF's. Percentagewise, 1.531 percent to total.

Q And the Exhibit shows that while the Jal Oil Company has 2.584 percent of the wells in the Jalmat Pool, it only is allowed to produce 1.531 percent of the gas?

A That's correct.

Q Now, in connection with the preparation of this application, Mr. Hardwick, did you make the same study in regard to the allowable assigned to the Jalmat Pool for the month of April, 1960? A That's correct.

> (Whereupon, Applicant's Exhibit No. 4 was marked for identification.)

Q I hand you here what has been marked, identified as Applicant's Exhibit No. 4, and ask you to state what that Exhibit shows?

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This Exhibit shows that for the month of April there were Α a total of 385 Jalmat Wells, Jal Oil Company having 10, for a percentage to total of 2.597 percent. The total allowable for the Jalmat Pool for the month of April was 6,541,921 MCF's; the allowable attributed to Jal Oil Company's wells, 100,240 MCF's; Jal Oil Company's allowable to total is 1.532 percent. All right, sir. Mr. Hardwick, were you connected with the Q Jal Oil Company in October of 1959? That's true. A In the same capacity that you presently are representing Q. the Company? A I was. Q You are familiar with the hearing in regard to Case 1778 and 1779, which were consolidated by the Commission? I am. Α In that case, were the subject wells, the Eva Owen No. 1, Q the Dyer No. 3 and the Watkins No. 2 before the Commission for consideration? They were. A MR. GIRAND: At this time, if the Commission please, we would like to offer and adopt the record in the consolidated cases, No. 1778 and No. 1779, heard by the Examiner in Santa Fe on October the 7th, 1959, as a part of the record in this case.

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MR. PORTER: Does anyone have any objections as to the admission of the records in the two previous cases? Any objection

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to those records being made a part of this case? They will be considered part of the case.

> (Whereupon, Applicant's Exhibit No. 5 was marked for identification.)

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Q (By Mr. Girand) Mr. Hardwick, I hand you here a letter dated June 8, 1959 on stationery of El Paso Natural Gas Company, addressed to Jal Oil Company, over the signature of D. B. Gillit, Dispatching Department. I will ask you whether or not you have ever seen that letter before?

A I have.

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Q Was that letter written at the time shown and received by you according to the stamp thereon .--

A Yes.

Q --as far as you know?

A Yes.

Q Does that letter deal with any of the wells in question at this hearing?

A Yes, it does.

Q For the record, would you read into the record the pertinent parts of the letter dealing with the subject wells?

A The second paragraph of the letter states: "The New Mexico Oil Conservation Commission has reclassified four (4) of your wells connected to our gathering system from marginal to non-marginal status. The wells are the Dyer #3, Legal #2, Jenkins #1 and Repollo #1 in the Jalmat Gas Pool. The allowables were made retro-

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11 active to July, 1958, and all of the wells are now overproduced due to being produced at all times as marginal wells." Now, that letter is dated 1959? Q That's dated June 8, 1959. Α And prior to the receipt of that letter, your wells have 0 been classified as marginal wells without restriction as to the amount of production? 14 I believe that's correct. Α san) Now, generally speaking, these wells -- I will ask you Q 124 154 whether or not these wells produce any fluid in conjunction with the 1.4 gas? Α Yes. Q I will ask you whether or not the wells are artificially or mechanically produced? All except one is mechanically produced. A Which well is not mechanically produced? Q I am sorry. All are mechanically produced. Α All right. Now, up until June of 1959 the wells have Q been classified as marginal wells under the Rules of the Commission? A That's correct. Then, in June of 1959 the Commission assigned or desig-Q nated the wells as non-marginal wells? That's correct. A And charged against the wells all production up to June Q of 1958; is that correct? DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

12 July of 158. A 0 July of 158? A According to this. In other words, the production from the wells for the Q months of July, 1958 up until June of 1959 were legally produced by the Company? That's correct. А Q. And without any knowledge that they would be charged against any allowable later set by the Commission? Α I believe that's correct. Q Now, do you know of your own knowledge whether or not the wells would be overproduced at this time had the Commission not gone back for a period of one year and charged it against the wells, the gas produced by the wells? А I can't answer for certain, but I don't believe they would. . . . (Whereupon, Applicant's Exhibit No. 6 was marked for identifi cation.) Mr. Hardwick, I hand you here an instrument containing Q two pages, marked Applicant's Exhibit No. 6, appearing to be a letter from El Paso Natural Gas Company to Girand and Stout, Lawyers, Hobb's, New Mexico. Attention: W. D. Girand, over the signature of J. W. Baulch, Jr. I will ask you whether or not you have seen that letter or a copy thereof? Yes, I have. Α Does the Exhibit on its face show a copy directed to your Q DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chopel 3-6691

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| <br>office at       | ; Midland, Texas?   |    |
| A                   | It does.  |    |
| Q                   | What does Exhibit 6 deal with, Mr. Hardwick?                                  |    |
| <br>A               | It's dealing with the Watkins No. 2 Well located in the                       |    |
| SE/4 of t           | the SE/4 of Section 35, Township 24 South, Range 36 East,                     |    |
| Lea Count           | y, New Mexico.  |    |
| Q                   | Mr. Hardwick, who is J. C. Chewning?  |    |
| A                   | She is Secretary for Jal Oil Company, Inc.                                    |    |
| ହ                   | And where does she reside?  |    |
| A                   | Midland, Texas.   | !  |
| Q                   | Are you familiar with her signature?  |    |
| A                   | Yes, I am.  |    |
|                     | (Whereupon, Applicant's Exhibit<br>No. 7 was marked for identi-<br>fication.) |    |
| ହ                   | I hand you here what has been marked Applicant's Exhibit                      |    |
| 7, and as           | k you whether or not that is a photo copy of her signa-                       |    |
| ture?               |   |    |
| A                   | That's correct.   |    |
| କ                   | Now, Exhibit No. 6 appears to be in affidavit form. Will                      |    |
| you state           | what the Exhibit purports to show?  |    |
| A                   | The Exhibit purports to show the original reserves less                       |    |
| productio           | n through 1959, showing an unrecovered reserve January 1st,                   | ,  |
| 1960 <del>-</del> - |   |    |
| Q                   | Now   |    |
| <br>A               | for Watkins No. 2.  |    |
|                     |   |    |

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|  |                | MR. GIRAND: I would like to have the record corrected to   |        |
| and the second |                | show that is Exhibit 7.  |        |
|  |                | The source were the original re-   |        |
| a <b>#</b>   |                |  | •      |
|  |                | serve figures obtained?  |        |
| т.<br>Ц  |                | A From the Ira Brinkerhoff report.   |        |
| 4  |                | Q The Exhibit has previously been introduced here?   |        |
| 7<br>64  |                | A That's correct.  | l      |
|  |                | Q All right. From what source were the production, through   |        |
| <b>*</b>   |                | December 1959, figures obtained?   |        |
|  |                | A They were obtained through to October, \$59 from the   |        |
|  |                | Brinkerhoff report, and from the Accounting records through Decem-                                       |        |
| 1 1<br>1   |                |  |        |
|  |                | ber, 159.<br>Q And, of course, the unrecovered reserves are just a sub-                                  |        |
| -  |                |  |        |
|  |                | traction of the production from the original reserves?   |        |
| 5 <b>4</b>   |                | A That's correct.  |        |
|  |                | Q Now, after the hearing before the Examiner in October of   |        |
|  |                | 1959, did the Jal Oil Company watch the subject wells closely as   |        |
| 12   |                | to their production mannerisms and abilities?  |        |
|  |                | A They did.  |        |
|  |                | Q In connection with this hearing, did you prepare a memo-   |        |
| 118<br>  |                | randum of the producing history of the Watkins No. 2 from October  | 59     |
| time:  |                |  |        |
| 2  |                | through February of 1960?  |        |
| 1999<br>   | 1 <del>2</del> | A I did.<br>(Whereupon, Applicant's Exhibit  | ;      |
| -  |                | No. 8 was marked for identi-   |        |
|  |                | fication.)   |        |
| ••••   |                | DEARNLEY - MEIER & ASSOCIATES  |        |
| L  |                | DEARNLEY - MEIER & ASSOCIATED<br>GENERAL LAW REPORTERS<br>ALBUQUERQUE, NEW MEXICO<br>Phone Chapel 3-6691 |        |
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Q I hand you here what has been marked as Applicant's Exhibit No. 8, and ask you whether or not that is a reproduced or photo copy of that memorandum?

A That's correct.

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Q For the record, will you read into the record your report, skipping the summary well activity and what not?

This is a summary gathered from the gas production charts A and also our field superintendent information. It's brief, but it explains how the well reacted under certain circumstances. From October the 1st to the 8th, it states this was a flowing well and no gas was produced during this period. The well was shut in. Well pressure, casing pressure I should say, 900 pounds. From October the 8th to the 16th, there was no gas produced. The well was shut in. October the 16th to the 23rd, no gas produced. The well was shut in. From October the 23rd to the 31st, well produced 308 MCF. Water produced 250 barrels per day when well was producing. October the 31st to November 8th, well produced 2,120 MCF's. Chart shows when line pressure goes up, production drops due to water condition and line pressure. Water 250 barrels per day. On November 8th to the 16th, well produced 141 MCF's. Well blown in almost every day to keep water off. Had to swab well in on November the 11th as water was too great for well to blow around.

Q Just a minute, Mr. Hardwick. When you say well had to be blown in nearly every day, does that require extra supervision? A Yes, it does.

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Q All right. Go ahead. On November 16th to the 22nd, well produced 1,440 MCF's. 16  $\mathbf{A}$ Water is blown off when well is not on line. Had to swab well on 11/17 due to same condition as above, same being water condition. Now, just for the purpose of the record, Mr. Hardwick, what do you mean, you had to swab the well? The well wouldn't unload the water, so you bring a swab unit out, a pulling unit. 1 8 All right. Proceed, sir. Q On November 22nd to the 30th, well produced 987 MCF's. Α Changed orifice from three-quarter inch to one-quarter inch to see if well would produce less gas and not logg off. MR. PORTER: Mr. Girand, at this time the hearing will recess until one-thirty. (Recess) MR. PORTER: The hearing will come to order, please. Mr. Girand, will you proceed with the questions? (By Mr. Girand) Mr. Hardwick, I believe your last statement was in regard to the production record of the Watkins No. 2, for the period of November 22nd through November 30th, that appearing on Exhibit 8. Do you have Exhibit 8 in front of you, sir? All right. Will you proceed, starting with November 23rd-Q November 22nd-November 30th period and continue with your statement? From Nomvember the 22nd to the 30th, the well produced DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691 i.,...

987 MCF's. The orifice was changed from a three-quarter inch to a one-quarter inch to see if the well would produce less gas and not logg off. December 1st to the 8th, well produced 221 MCF's. Well died on one-quarter inch orifice and wouldn't blow around. Used a swab unit December 4th to get water off the formation and back to producing. December 8th to the 16th, the well died again on a quarter inch orifice and wouldn't produce. Orifice changed December 9th from one-quarter inch to one-half inch, and well swabbed in. The well produced approximately 350 MCF's and died. Well swabbed in December 10th produced 25 MCF's and died. Well swabbed in December 9th from one-nalf inch, and well swabbed in December 9th produced approximately 40 MCF and died. Orifice changed from one-half inch to one inch, and well was blown in. Well was able to produce with one inch orifice but casing pressure has dropped from 900 pounds to 600 pounds in approximately two months.

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Q Just a minute. You mean that the pressure on the well, casing pressure, dropped three hundred pounds in the two months, being the months of--the last half of October through the first half of December?

A That's correct.

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Q All right. Proceed, sir.

A December 16th to the 23rd, well produced 2,335 MCF's. Choke was pinched to reduce flow of gas. Well started logging off. This flow procedure was tested with El Paso Natural Gas Company as per their letter of March 7, 1960.

Q That letter of March 7th, 1960 is a letter previously

DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-5691 introduced in evidence here and identified by you; is that correct?

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Yes.

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Q All right. Go ahead.

December 23rd to the 31st, well produced 2,642 MCF. Chart А shows well heading due to enormous amount of water, same being approximately 250 barrels per day. January 1st to the 8th, well produced 2,164 MCF. Chart shows well pinched down to determine low rate of flow and well died. Well later blown in when line pressure dropped allowing same to unload water. January the 8th to the 16th, well produced 2,696 MCF. Chart chows production at a specified rate; when choke is pinched well begins to logg off. Then choke is opened up and well unloads the water. January 16th to the 23rd, well produced 2,075 MCF's. Well producing at as low rate as can be produced without logging off. Water still approximately 250 barrels per day. January 23rd to the 31st, well produced 2,707 MCF's. Well started out low and appeared to be logging off, sc choke was opened to allow well to unload water. February 1st to the 8th, well produced 2,517 MCF's. Producing at as low a rate as possible without logging off. February 8th to the 16th, well produced 1,706 MCF. Chart shows erratic production due to logging off condition. Well logged off on the lith due to high line pressure and cold weather. February 16th to the 21st, well produced 1,246 MCF. Chart shows about the same as appeared February 8th to the 16th. February 21st to the 29th, well produced 1,084 MCF's. Well logged off several times due to cold weather. Was able to blow well in when line pressure and

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|                           | Eva Owen No. 1, and the production through 1959, and the unre-<br>covered reserves, January 1st, 1960. |
|---------------------------|--|
|                           | A Exhibit No. 9 represents the original reserves for the   |
|                           | hibit represents?  |
|                           | Applicant's Exhibit No. 9, and ask you to please state what that Ex-                                   |
|                           | Q Mr. Hardwick, I hand you here what has been identified as  |
|                           | (Whereupon, Applicant's Exhibit<br>No. 9 was marked for identifi-<br>cation.)                          |
|                           | A That's correct.  |
|                           | known as the Eva Owen No. 1?   |
|                           | tion, supervise the making of similar Exhibits covering the well                                       |
| <b>)</b>                  | Q All right. Now, did you, in connection with this applica-  |
|                           | A I can't say.   |
|                           | from which you are producing?  |
|                           | Q If you know, is that encroachment of water in the zone   |
|                           | A That's correct.  |
|                           | 31st of this year?   |
|                           | produced, the casing pressure has dropped to 360 pounds as of March                                    |
|                           | Q And due to the manner in which the well has had to be  |
|                           | A When we started, yes, sir.   |
|                           | your casing pressure was approximately 900 pounds?   |
|                           | Q At the commencement of this period, under this Exhibit 8,  |
|                           | croachment. Casing pressure on March 31st, 1960 was 360 pounds.  |
| <sup>▶</sup> *** <b>*</b> | per day, and casing pressure dropping gradually due to water en-                                       |
|                           | weather permitted. Water production still approximately 250 barrels                                    |
|                           |  |
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DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE. NEW MEXICO Phone Chapel 3-6691 Q - From what source were those figures obtained?

A The original reserves were obtained from the Ira Brinkerhoff report; the production through October was also obtained from the report, and we added to that October, November and December.

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Q Then, the unrecovered reserves was just a subtraction of the amount?

A . That's correct.

Q Does the Eva Owen Well make water?

A Yes, sir.

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Q Was the Eva Owen Well one of the wells that was subject to hearing in Cases 1778 and 1779?

A That's correct.

Q In October, when we had the hearing before the Examiner in an attempt to obtain some relief of these wells, due to the overproduction resulting from the fact that the wells were required to be produced in the manner they are presently being produced, it was the fact that the wells were reclassified, and the allowable or the gas they had produced prior to July of 1959 had been charged against the well. From that time on, did you make a close study of the operations of the Eva Owen Well?

A Yes.

Q From what source did you obtain your information as to the producing habits and characteristics of this well?

A This information was prepared from El Paso Natural Gas Company charts and with our field superintendent information.

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(Mereupon, Applicant's Exhibit No. 10 was marked for identification.) Now, I hand you here an instrument containing two pages, identified as Exhibit No. 10, and ask you if that is the photo copy of the memorandum you prepared in regard to the Eva Owen No. 1 Well?

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Yes, it is. Q

Will you read it into the record, the information contained therein?

From October the 1st to October the 9th, this informa-A tion is compiled and the well does have a free piston installation, and was shut in approximately one year. Well is dead due to water condition after long shut in period and unable to blow well in.

Do you know why the well was shut in in the original instance?

- Yes, the well was overproduced. A
- Was that due to reclassification of the well? Q
- I believe that's correct. Ά
- All right. Proceed, sir. Q

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From October the 9th to the 17th, we have the same situation. We are unable to blow the well in. From October the 17th to the 24th, same as above. From October 24th to the 31st, most of this period is the same as above. Had pulling unit swab well in on the 31st, and same produced 43 MCF's and a considerable amount of water before well died. November 1st to the 9th, well was swabbed in November 3rd, and produced very little before dying. Swabbed

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22 in again November 4th, and produced a total for this period of 90 MCF's and a considerable amount of water. November 9th to the 17th well produced 59 MCF's for this period. Well was blown in several times and would not take line. This procedure performed each day to get fluid off of well. Produced approximately 40 barrels of water per day. November the 17th to the 23rd, the well produced 175 MCF's under the same conditions as I just described. November 23rd to December 1st, well produced 438 MCF's, under the same conditions. December 1st to the 9th, well produced 442 MCF's under the same conditions. December 9th to the 17th, well produced 297 MCF's. Same conditions. December 17th-December 24th, well produced 121 MCF's. Changed orifice December 18th from a half inch to one inch to get piston to run. Produced 814 MCF's after change, and approxi mately 40 barrels of water per day. December 24th-January 1st, well produced 1,664 MCF's. Well, according to the charts, having a hard time keeping fluid off the formation. January 1st to the 9th, produced 731 MCF's. Well logged off five times in this period, but was able to blow same in. Water production still about the same. Janu ary 9th to the 17th, well produced 175 MCF's. Well was blown each day, but well only took line two times and logged off each time due to water on formation. January 17th to the 24th, well produced 121 MCF's. Unable to get well to take the line. Tried blowing in once or twice each day. January 24th to February the 1st, well produced 7 MCF's. Same conditions as above. February 1st to the 9th, well produced 451 MCF's. Line pressure down. Well blew in,

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23 but unable to produce normally. February 9th to the 17th, well produced 579 MCF's. Same conditions as above. February 17th-22nd, well produced 161 MCF's. Well logged off after two days low product tion due to the same conditions as above. February 22nd to March ۱. 1st, well produced 348 MCF's. Produced low for one-half the time and was logged off approximately one-half the time. Each time well logged off, the well was worked with to get water off formation and }\_2 14 get same back to producing. When producing it unloads approximately 2.8 40 barrels of water per day. On March 31st, 1960, the casing pressure was 400 pounds, and the tubing pressure 200 pounds. Now, Mr. Hardwick, in connection with this hearing, did a you make a comparison in regard to the Repollo Well No. 1, which was one of the subject wells of the hearing of October, 1959? I didn't make a comparison as to the production. I did A make a summary of the reserves. (Whereupon, Applicant's Exhibit No. 11 was marked for identification.) All right. I hand you here what has been identified as 0 Exhibit No. 11, and ask you if that Exhibit was prepared under your supervision? That is correct. A Now, what is the present status of the Repollo No. 1? Q It's dead. Α And how long has it been dead? Q Approximately six months. A DEARNLEY . MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

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|---|----------|
| <br>Q Was the Repollo No. 1 shut in because of overproduction?      | <u>S</u> |
| A I don't believe it was shut in for that reason.                   |          |
| Q Do you know what reason it was shut in?                           |          |
| A It was shut in a time or two for some specific tests, and         |          |
| we were never able to get it back on.                               |          |
| Q At the time it was shut in, do you know whether or not it         |          |
| was able to meet its allowable?                                     |          |
| A I would say yes.  |          |
| Q Since the tests that were made on the Repollo Well were           |          |
| completed, how long did the Company attempt to bring the Repollo    |          |
| No. 1 back into   |          |
| A We worked with it approximately three months.                     |          |
| Q And by working with it, what did you do?                          |          |
| A There was a pumping unit installation at this well, and           |          |
| we continually pumped it, trying to unload the water so that the    |          |
| gas might come back in.   |          |
| Q Now, your statement, as shown by Exhibit No. 11, deals            |          |
| with the original reserves as determined by the engineering report; |          |
| is that correct?  |          |
| A That's correct.   |          |
| Q And, then, from that you have taken the amount of gas it          |          |
| would produce from the well?  |          |
| A That's correct. Let me restate that. On this summary              |          |
| which we have presented here, the Repollo is not listed thereon.    |          |
| Q It is not listed on   |          |

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った On the Brinkerhoff report I have here. A These came from a prior Brinkerhoff report. I see. You checked the figures against that report? Q Yes, I have. A Q. You are satisfied that the figures appearing on Exhibit 11 are correct according to your records? That's correct. Α That report showed a figure of 6, 363, 1446 MCF as the reserves Q. under that well? 1 % That's correct. А ∴Q And showed the production through December of 159 of 6.X - 1養 2,184,353--А That's correct. --MCF. So, according to the report, the unrecovered re-Q serves from that well, due to the fact that it was shut in, amount to 4,179,093 MCF; is that correct? That's correct. A. And as far as your efforts have been since the well was Q shut in, you have been unable to bring the well back to produce any of that gas? Α That's correct. So, as far as the Company is concerned, that gas is for-Q ever lost? Yes, sir. A Now, in connection with this application, did you make Q DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE. NEW MEXICO Phone Chapel 3-6691

similar studies in regard to the Dyer No. 3? A Yes, sir.

> (Whereupon, Applicant's Exhibit No. 12 was marked for identification.)

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Q I hand you what may be identified as Applicant's Exhibit No. 12, and ask you to state what that Exhibit represents? A This Exhibit represents the original reserves less production, and the unrecovered reserves as of January 1st, 1960 in the Dyer No. 3. Information is acquired from the Brinkerhoff report.

Q Will you read those figure's into the record, please, sir? A The original reserves, 3,436,278 MCF. Production through December, 1959, 793,606 MCF's. Unrecovered reserves, 2,642,672 MCF.

Q At the hearing in October, did you also make a memorandum as to the producing habits of the Dyer No. 3 Well?

A I did.

(Whereupon, Applicant's Exhibit No. 13 was marked for identification.)

Q I hand you what has been identified as Applicant's Exhibit No. 13, and ask you, is that your memorandum?

A This is.

Q And from what sources did you obtain the information? A From El Paso Natural Gas Company charts, and our field superintendent information

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Q All right. Will you read the summary into the record,

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please?

A This well has a piston operation installed therein, and the piston is set from, October period, October 1st to the 9th, the piston is set one and one-half hours on, and one-half hour off.

Q Will you explain that a little bit by just an operation?

A Well, I will explain briefly, but you may want to talk with someone about the full details.

Q Insofar as you know.

A The piston, so far as I know, is a free piston floating up and down in the tubing. And it falls to the bottom and gathers up water, and at a certain time it comes to the top and is held there for a certain length of time, and allows the well to unload water coming thereafter. And this well is producing gas, and, then, the period it's off, it falls to the bottom and starts the same procedure again.

Q All right, sir. Go ahead.

A Each gas production kick on the chart is strong. Then, well production drops considerably due to the water volume. When line pressure is up to approximately a hundred and eighty pounds, production drops sharply. Production for this period is 2,282 MCF Water, approximately 25 barrels per day. October 9th to the 17th, piston setting is the same. Line pressure was up October 12th, well died. Was able to blow same in on October 14th. Line pressure still high. Well died again. Same thing happened on October 15th

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and 16th. Production for this period, 1,419 MCF's. Water about the same. October the 17th to the 24th, piston setting the same. Well blown in on the 17th and well died. Well blown in on October the 19th and died. Same thing happened on October 22nd and 23rd. Production, 405 MCF's for this period. Water increasing. October the 24th-November the 1st. Piston setting the same. Well was blown in four times in this period and logged off each time. Unable to keep same producing due to water. Production, 569 MCF's. Water approximately 30 barrels per day. November the 1st to the 9th. Piston setting the same. Well blown in two times in this period and died each time. Unable to keep producing due to water encroachment. Production, 296 MCF's. Water approximately the same. November the 9th to the 17th. Same piston setting. Unable to blow well in. Had swab unit swab well in well on November 13th, but was unable to keep well producing. Well died about four hours later. Production, 71 MCF's. Water approximately the same. November the 17th to the 23rd. Unable to blow the well in. No gas. November 23rd to December the 1st. Unable to blow well in. No gas. December 1st to the 9th. Piston setting was the same. Swabbed well in December 2nd and same died shortly thereafter. Production, 151 MCF's. Water approximately 30 barrels per day. December 9th to the 17th. Unable to get well to produce. No gas. December 17th to the 24th. Unable to get well to produce. No gas. December 24th-January 1st. Unable to get well to produce. No gas. January 1st to the 9th. Unable to get the well to produce. No gas.

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January 9th to the 17th. Unable to get well to produce. No gas. January 17th to the 24th. Unable to produce well, so installed pump jack January the 21st to lift water off the formation. Production, 307 MCF's. Water, 30 to 35 barrels per day. January the 24th to February the 1st. Line pressure high; approximately 225 pounds. Pump running to keep water off the formation. Production is low due to line pressure. Production, 1,091 MCF's. Water production approximately the same. February 1st to the 9th. Changed orifice from one and a quarter to three-quarters. Pump was running. Production, 1,262 MCF's. Water the same. February 9th to the 17th. Pump running to keep formation clean. When line pressure is high, production is down. Production, 880 MCF's. Water the same. February 17th-22nd. Had trouble with pump jack engine and cold weather. Well produced very little gas. Production, 418 MCF's. Water approximately 35 barrels per day when well is producing. February 22nd to March 1st. Well produced in accordance with line pressure. Pump running to keep formation clear of water. Production, 1192 MCF's. Water about the same. This well on March 31st, 1960 had casing pressure of 250 pounds, tubing on the pump.

Q Now, Mr. Hardwick, just what is the Company's aim, insofar as you know, in the filing of this application? What is the Company seeking to obtain from the Commission?

A Well, the Company is certainly not trying to do away with proration. We feel that proration is necessary, but wells such as these, that produce a considerable amount of water, need some type

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of a consideration or some form that they can be produced at a rate that it would recover the unrecoverable reserves. All of these wells have a tremendous amount of water for a gas well, and if they can't be produced economically, then, they certainly would be prematurely abandoned. And if abandoned, it's not only loss of reserves to the Company, but it's loss of reserves to the royalty owners and the State, purchaser and just everybody is affected by it.

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Q Well, is the Company's opinion that if this gas is allowed to be lost due to the encroachment of water, that it will forever be lost to the public?

A That's true.

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Q I will ask you whether or not the wells in question are connected to what is called a low pressure line of one hundred pounds operating pressure; is that correct?

A I believe that's correct.

Q And that is the lowest pressure line that is in existence in the area, that you know of?

A I believe you probably should ask the engineer on that. I am not too familiar--

Q Do you feel that, (.so, unless you are allowed to produce these wells, the Company, that is, in the manner that you have produced them in the past, that the wells will have to be prematurely abandoned?

A That is true.

A Contraction of the second 
DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691 It would be uneconomical to produce?

A Yes.

MR. GIRAND: I believe that's all I have of this witness. MR. PORTER: Anyone have any questions of Mr. Hardwick? CROSS-EXAMINATION 31

## BY MR. PAYNE:

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Q Mr. Hardwick, would you refer to your Exhibits 3 and 4 and tell me what relevancy they have, if any?

MR. GIRAND: If the Commission please, I don't think Mr. Hardwick is qualified to pass on the relevancy of the evidence. That is a matter for this Commission.

MR. PAYNE: Mr. Girand, he showed on Exhibits 3 and 4 the total wells in the Jalmat Pool owned by the Jal Oil Company. Then he showed the percentage of the total allowable that the Jal Oil Company gets. Now, he testified as to these matters, and I want to know what he hopes to establish by that.

MR. GIRAND: I think the Exhibit speaks for itself.

Q (By Mr. Payne) In other words, each hole in the ground " should get the same amount of gas?

A I didn't say that. I believe that when this was exhibited, Mr. Girand said he requested this information.

Q Yes. Now, and I am trying to determine what it has to do with your proposal here, your requested relief. Do you feel that a well with one acre dedicated to it should have as much allowable as one with one hundred forty?

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A I don't.

Q Now, what is the acreage dedicated to each of the wells in question?

A I believe they range from hundred sixty down to approximately forty.

Q And the deliverability always varies, I presume?

A Yes, sir. I think there is probably some question; maybe the engineer will establish on the deliverability. I am not qualified on that.

Q Now, since you have calculated the percentage of the total allowable that you get from-- Have you calculated the percentage that you have with the water in the pool?

A I have not calculated that.

Q Now, Mr. Hardwick, I believe you testified that due to the fact that these wells were reclassified, they generally were overproduced, and that had they been allowed to continue to be marginal wells, they wouldn't have been overproduced; is that right?

A I believe that's correct.

Q Now, Mr. Hardwick, why do you feel that a well which has demonstrated its abilit to produce in excess of a non-marginal allowable should be c'assified marginal?

A Because of the inability, when the well was shut in, to come back and produce gas, which it has reserves there.

Q Well, Mr. Hardwick, the well was capable, and, in fact, did produce more than non-marginal allowed, did it not?

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A I believe that's correct. I don't have those figures before me.

Q Therefore, it would seem rather anomalous, wouldn't it, to allow it to remain classified as marginal?

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A I believe our situation at this time is greater than it was at the time that they were reclassified.

Q Now, Mr. Hardwick, you testified that you have watched these wells closely since the hearing in October at which time the Commission granted relief on these wells. If that is the case, why did the Commission find it necessary to advise Jal Oil Company that they were producing these wells or one of these wells in excess of the amount allowed by the Order entered in that case?

MR. GIRAND: If the Commission please, why the Commission did anything, we are not accountable for it.

MR. PAYNE: The witness testified--

MR. GIRAND: Just a minute. You asked him why the Commission did something. I don't know. Read the question.

(Question read by Reporter.)

Q (By Mr. Payne) You testified that you had watched these wells closely since the last hearing.

A I believe that's true.

Q Is it not a fact that you did produce one of them in excess of the allowable granted in the Order?

A That is correct. We were attempting to try to find what a minimum rate of flow was, and at that time it was overproducing.

We had not established that. Although we had cut it back some, we still hadn't established that a minimum rate of flow that we would flow the well without the logging off. And so we continued to produce it some to see if we couldn't establish that.

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Q Now, Mr. Hardwick, I believe you testified that both the Owen and the Dyer, I believe it is, produce water when you made these summarizations?

A Yes.

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Q And that includes January and February, does it not, of this year?

A Yes, sir.

Q In view of that, Mr. Hardwick, why did Jal Oil Company report to the Commission on Form C-115, for both January and February that these wells had no water production?

A I assume that would be an oversight on the person filling these out.

Q Now, you did show it for the one well, for the Watkins Well, but for the other four of these wells they show no water production?

A They leave it blank.

Q Yes, sir. Now, Mr. Hardwick, these wells are all perforated in the 80's, are they?

A I am not familiar with that.

Q Do you know if they were open hole in the Queen?

A Again, I am not familiare with that.

| Do you know where your water is coming from?<br>No, I don't.<br>The engineer will testify to that?<br>I feel he probably will.<br>Now, Mr. Hardwick, I believe you testified that your ap-<br>ion, if not granted here, there is a good probability that<br>Il be left in the ground which would never be recovered. Is<br>r opinion that some other well would not produce this gas?<br>I am speaking just frankly of my opinion. I don't believ<br>ould. I am not qualified on that.<br>I see. Now, you installed a pump jack recently, I believ<br>stified, in your Dyer Well?<br>That's correct. |
|--|
| No, I don't.<br>The engineer will testify to that?<br>I feel he probably will.<br>Now, Mr. Hardwick, I believe you testified that your ap-<br>ion, if not granted here, there is a good probability that<br>11 be left in the ground which would never be recovered. Is<br>r opinion that some other well would not produce this gas?<br>I am speaking just frankly of my opinion. I don't believe<br>ould. I am not qualified on that.<br>I see. Now, you installed a pump jack recently, I believe<br>stified, in your Dyer Well?  |
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| ould. I am not qualified on that.<br>I see. Now, you installed a pump jack recently, I believ<br>stified, in your Dyer Well?   |
| I see. Now, you installed a pump jack recently, I believ<br>stified, in your Dyer Well?  |
| stified, in your Dyer Well?  |
|  |
| That's correct.  |
|  |
| Is that a permanent pump jack or   |
| It's permanent equipment.  |
| Now, in your Eva Owen Well, you are still producing that   |
| ns of the free piston?   |
| That's correct, when we can get it on.   |
| Which is dependent upon gas production Well, let me  |
| this way. You must have gas production in order to lift that   |
| and unload the water?  |
| That's correct.  |
| Now, that is not the case in the pump jack, is it?   |
| No.  |
| It's a separate water pump?  |
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I am not qualified to answer this, but to a certain ex-Α tent, I believe that the gas is dependent upon the water also, even thought the pump jack is lifting the water from the formation.

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Q Now, Mr. Hardwick, the pump jack is the ultimate, supposedly, weapon against large amounts of water, isn't it?

That's correct. A

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And you generally proceed from a free piston stage to Q the pump jack stage?

Α That's correct.

Now, in view of the fact, Mr. Hardwick, that -- Do you Q. feel that you are asking the Commission here to take the ultimate step as to these wells? In other words, terminate prorationing That is what it is, in effect, is it not? to them?

Something to that ---A

And that is the furthest, of course, that the Commission Q could ever go. Now, in view of that, do you feel that the Commission should take that step unless you have taken the ultimate step? In other words, until such time as you have used the pump jack in the Eva Owen Well?

Well, of course, we feel that we should try to get all the A reserves we can under each step down the line. But we feel that the pump jack, the time is almost set after that period comes. And we would like to try to recover a portion of it before that time, as the expense of the pump jack is very high.

Now, Mr. Hardwick, in view of your very large reserves Q

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under each one of these tracts, I presume it would be very economically feasible to rework any of these wells, provided it's safe. Have you considered attempting to squeeze off to eliminate your water problem?

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A This has been discussed some. I believe probably the engineer will probably answer more of these questions than I am qualified to answer.

MR. PAYNE: Thank you. That's all.

MR. PORTER: Mr. Nutter.

## QUESTIONS BY MR. NUTTER:

Q What were Mr. Brinkerhoff's reserve figures based on, do you know?

A I don't know. He is an independent consultant.

Q Is he here today?

A No, he isn't.

Q You don't know what he considered, then, in arriving at these reserves for each one of these tracts?

A I don<sup>1</sup>t.

Q Do you know if he knew whether large quantities of water were being produced, or the wells were capable of producing large quantities of water when he made his evaluation of the tract?

A I believe at the time that this report was made, I don't believe the water condition was as bad as it is right now. It has become worse since the time of this report. He was aware of some of it, I'm sure.

38 Are his reserves purported to be recoverable reserves or Q total reserves underlying the tract? Recoverable reserves. Α And these estimates were made at the time when there Q wasn't as much water production as there is now? I believe that's correct. I would assume that. I don't Α know exactly what he based it on. MR. NUTTER: Thank you. QUESTIONS BY MR. UTZ: Mr. Hardwick, I believe that you stated in your testimony Q that you felt that the amount of production subsequent to July 1st, 1958 was legal production, and your wells were produced legally? I was under that impression. A Are you familiar with Rule 8 of Order R-967? Q I don't have it before me. I would have to take a look Α to see. Would you recognize the Rule if I read it to you? 0 I would see. A I quote from Rule 8, last paragraph of Rule 8, of Order Q R-967. It has to do with classification of wells. "At the end of a proration period, if a marginal well is producing more than the total allowed for the period assigned as allowable, the marginal well shall be classified as a non-marginal well." What does that mean? Well, that means--I assume it says that--that if A a

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39 well is overproduced more than normal allowable for non-marginal wells, then it should be reclassified. 0 And do you feel that the Commission was acting in accord-12.24 ance with the Rules when we reclassified the well as a non-marginal No.6 well retroactive to the time it started overproducing as non-mar-1.28 ginal? A On some of the wells which we had at that time, they were producing considerabl amount of water. The Repollo was one of them. And under the study which we are to put forth on this, we felt the 1.2 reclassification to ultimately get the reserves probably was against 1 the well ever producing its reserve. 含 Mr. Hardwick, do you believe that by virtue of the fact Q that a well is classified marginal, that it should be allowed at any time to produce more than a non-marginal allowable well of like 恋毒 size? I think there are certain circumstances that surround A individual wells that might call for that. That is what you are asking for now, is relief from pro-Q ration, under the Rules? We are asking for some relief, yes. A 0 Are you familiar with the proration formula of Jalmat Gas Pool? A Not too familiar with it, no. I understand it's on deliverability and acre specter. Do you feel that the allowable assigned to your wells is Q DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

in proportion to the allowable assigned to the Empire Pool in accordance with the formula? h0

A I would say this: This is my opinion. Wells that produce a lot of water under the deliverability test, I believe that it doesn't do the wells justice.

Q As far as the formula is concerned, you feel that you are receiving your fair share of your--

A I feel sure, yes.

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 Q Because of your water problem, you want to be relieved to produce more than your fair share of the allowable?

A I believe, if the water wasn't present, that our share of the allowable would be more.

Q You mean to say, then, that you think that if you didn't have the water, your reserves would be more?

A I am not saying the reserves would be more, but I believe we are getting on something that probably the engineer could answer better than I can. But I do believe this: That if the water wasn't present, you would have a better deliverability test, which would give you a better allowable.

MR. UTZ: I see. Thank you.

MR. PORTER: Anyone else have a question?

## QUESTIONS BY MR. PAYNE:

Q Mr. Hardwick, are you familiar with the completion methods of the Jal Oil Company wells in the Jalmat Pool? A No, I am not.

MR. PAYIE: All right, sir. MR. PORTER: Any further questions? The witness may be 41 2. ..... excused. la marca MR. GIRAND: At this time we offer Exhibits 1 through 13, far. inclusive. MR. PORTER: Who prepared the Exhibits? MR. GIRAND: They have been testified to. The witness testified to, prepared each one of them. MR. PORTER: I see. Without objection, the Exhibits will be admitted to the record. MR. GIRAND: That is, with the exception of Exhibit 1. That's your own schedule. MR. PORTER: You don't want to take that. The witness may be excused. MR. GIRAND: Call Mr. Watson, please. (Witness excused) DEWEY WATSON, called as a witness, having been first duly sworn, testified  $\epsilon$ follows: DIRECT EXAMINATION BY MR. GIRAND: Will you state your name, please? Q Dewey Watson. A Where do you live, Mr. Watson? Q.

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42 Jal, New Mexico. A By whom are you employed? Q A Olson Oil, Incorporated. Q Have you testified before the Commission in the capacity of a petroleum engineer before? А Yes, sir, I have. MR. GIRAND: Is the Commission satisfied with Mr. Watson's qualifications? MR. PORTER: Yes, sir. (By Mr. Girand) Mr. Watson, did Olson Oil previously own Q the wells presently known as Jal Oil Company's Dyer No. 3, Eva Owen No. 1, and Watkins No. 2? Would you restate that question again? A Q I said: Did the Olson Oil Company previously own those wells? No, sir. A Have you previously had any connection with the wells Q known as the Jal Oil Company's Dyer No. 3, the Watkins No. 2 and Eva Owen No. 1? The only one I didn't have anything to do with completion A on was the Dyer No. 3. The Watkins 2 and Eva Owen No. 1, I was there on the completion on those. Were you at that time employed by Jal Oil Company? Q Olson Oil On the Watkins 2, yes. The Eva Owen was A Company. DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

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Q Now, as a matter of fact, Mr. Watson, you are familiar with the hearing held in Santa Fe before the Examiner in October of 1959, wherein the subject wells were a matter of controversy at that time?

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A Yes, sir.

Q You appeared at that time to testify in regard to those wells?

A That's correct.

Q Now, are you familiar with the application that has been filed with the Jal Oil Company in connection with the Dyer No. 3, Watkins No. 2, and Eva Owen No. 1?

A Yes, sir, I am.

Q In connection with that application, have you been requested by me and by the Jal Oil Company to make any study of the condition of the three subject wells?

A Yes, sir, I have been.

Q And in connection with that, did you make any further study as to the wells known as the Repollo No. 1 and Legal No. 2, and Jenkins No. 1 wells?

A Yes, sir, I did.

MR. GIRAND: If the Commission please, at this time, in regard to Exhibits Nos. 14 and 15, being the letter from Mr. J. W. Baulch, Jr., addressed to Girand and Stout, dated April 11th, 1960; and the accompanying map, which is Exhibit No. 15, I would like to make this statement to the Commission, that El Paso requested that

none of their men be used as witnesses in this matter. The map was presented to the writer as a map fully demonstrating the low pressure line system of the El Paso Natural Gas Company, located in Jalmat Pool. And the Exhibits are offered primarily to enlighten the Commission as to the wells that are located on this low pressure line of a hundred pound operating pressure, and their relation to the subject wells. The prorated force of them, Mr. Payne, is just to kind of orient things that we are talking about. And with that understanding, I would like to offer Exhibits 14 and 15.

MR. PORTER: The Exhibits will be admitted to the record for the purpose of--stated.

MR. GIRAND: All right.

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(Whereupon, Applicant's Exhibits Nos. 14 and 15 were marked for identification.)

Q (By Mr. Girand) Mr. Watson, directing your attention to the map which has been identified as Exhibit 15, will you briefly state what the map purports to show?

A Well, this is a portion of the over-all map by El Paso Natural Gas Company showing the one hundred pound line pressure in the Jal area. And there are three compressor stations as indicated on the map where the field compressors are set to enable the line pressure to be brought down from around two hundred pounds down to a hundred at the wellhead. And those were primarily installed due to the weakened condition of the well, the low shut in pressures of all the wells in that area. The wells are tied in here so as

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to be able to produce into the two hundred fifty pound line. In order to comply with their contract, the line pressure was lowered.

Q Now, the compressor stations operating off those lines are shown on the map, are they not?

A Yes, sir, they are.

Q And how are the wells identified as being connected to the line?

A By the red line.

Q Now, the area shown there is all located within the Jalmat Gas Pool, is it not?

A Yes, sir, it is. All except one well, which is in Section 2, 25, 37. It's a Justis Glorietta Gas Well. And that's the only exception that I have noted.

Q Mr. Watson

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(Whereupon, Applicant's Exhibit No. 16 was marked for identification.)

Q Mr. Watson, I hand you here what has been identified as Exhibit No. 16, and ask you if you can state for the record what that Exhibit represents?

A This is a list of the wells that are tied into the hundred pound system of El Paso Natural Gas, and furnished by Mr. Baulch.

Q Now, on Page 1 of the Exhibit there, under the wells identified as Continental Oil Company's State A-2-1, located in Section 2, Township 25 South, Range 37 East, is the well you referred to as not being in the Jalmat Pool--

116 Α Yes, sir, it is. That is the Justis. It is, however, connected to the low pressure line? Q Yes, sir. Α 0 All right. Now, what is the usual operating pressure of that line? Well, normally, it will be approximately a hundred pounds, А plus or minus a few pounds either way. tial Now, in connection with this hearing, did you have occas-Q 1.1 18 ion to check on the Watkins No. 2 Well, belonging to the Jal Oil (2 Company? Yes, sir, I did. А And what did you find in connection with that well, as Q. 1.3 to its operating condition? Well, at the time I checked it, which was  $\frac{\mu}{9}/60$ , the A well was logged off due to high line pressure, and it was left down 4/10/30, and it was swabbed for eight hours 4/11/60. And yesterday evening the well was flowing in the atmosphere, drinking very little gas on a full two-inch stream of water, and was unable to go into the El Paso line. Now, does the Watkins No. 2 make a sufficient amount of Q water? Yes, it does; considerable amount of water. A Did you make any other observations in regard to that Q well? I think the testimony already presented limited the lowest А DEARNLEY - MCIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

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rate of flow that could be obtained and keep the well on the line was approximately three hundred twenty-five MCF per day.

Q Now, how did you arrive at that figure that it would require an allowable of that amount in order to keep the well on the line in its present condition?

A Well, that was actually taken by El Paso personnel and read off of their meters and charts.

Q Now, in order for that well to produce that amount, would that exceed the allowable assigned to that well?

A Under normal conditions, the way the allowable has been, yes.

Q Now, are you familiar with the manner of arriving at the allowable assignable to wells in the Jalmat Gas Pool?

A Yes, sir.

Q Briefly, what factors are used in order to determine the-

A Well, the acreage factor and deliverability factor.

Q Do you know how much of the allowable was assigned to the acreage factor under the Rules?

A Seventy-five and twe. v-five. It slips my mind which it is. I need some help there.

MR. GIRAND: I think the Commission will take notice of that fact.

Q (By Mr. Girand) Do you know how much acreage is assigned to the Watkins No. 2?

A Forty acres.

No. 17 was marked for identi-Now, Mr. Watson, I hand you here what has been identified Q as Applicant's Exhibit No. 17, and ask you if you can state what that instrument represents?

(Whereupon, Applicant's Exhibi

This is an El Paso Natural Gas Company form which carries the same information as the official State form on the "One-point Back Pressure Test for Gas Wells for the Deliverability Test." This first test was taken on  $4/1-\beta'/60$ , and there was no deliverability calculated due to the fact that on here there is a note h it saying "Operator did not want well shut in." And I think the reason is obvious, due to the fact that if it is shut in, it would have to be swabbed off.

All right. Now, what did that show the rate of flow? The rate of flow was 292.3 MCF, and the line pressure A was a hundred nine pounds.

All right. Now, directing your attention to the second page of the Exhibit, of the regular flow as shown by that Exhibit, I will ask you to state what that Exhibit is?

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Well, this is the same El Paso form, "Deliverability Test." For what time? Taken when? Q A

For 2/20 through 27, 1959. And the rate of flow was 747.8 MCF, at a static pressure of 305.2 pounds. And there was a deliverability calculated for this, which was 650.8 MCF per day. Now, directing your attention to the first page of the

Exhibit, that Exhibit fails to show any deliverability factor, does it not?

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A Yes, sir.

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Q Is there a notation on Page 2 of the Exhibit of any significance?

A Yes, sir, there is. The tubing pressure on this well did not have any pressure on seventy-two hour shut in, which means that it's logged off with water.

Q Now in taking deliverability tests, Mr. Watson, have you ever participated in taking those tests?

A No, sir, I haven't directly.

Q Well, did you know the procedure that is followed in taking one to the extent. -- from the time the well is shut in and then the testing period thereafter to determine the deliverability?

A Yes, sir.

Q All right. State for the record what that is.

A Well, there is a free flow period consisting of twentyfour hours. And then it is shut in pressure of seventy-two hours, when the shut in pressure is recorded on a tubing indicator, and the flow data is used to determine the rate of flow of the operating pressure.

Q All right. Then, when is the test taken after the shut in period to determine the -- one of the factors used in the deliverability?

A Would you state that again?

Q Well, after the shut in period, seventy-two hours, is there any further testing in order to arrive at any factor used in arriving at the deliverability of a well?

A Well, the tubing and casing pressure is recorded for twenty-four hours. I mean--

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Q Is that immediately after the shut in period of seventytwo hours?

A The twenty-four hours following the shut in pressure, yes. Q Now, where you have a well making water, such as the Watkins No. 2, and the other wells near it, in this application, will you state how long it would take you to bring a well back that is making water such as these wells are making in order for them to flow any gas in a twenty-four hour period after being shut in?

A Well, in the case of the Repollo--I mean the Watkins here, the most recently-- The well died on the 9th, and it was swabbed for eight hours, and it was dead through the 10th, and swabbed for eight hours on the 11th. And at six o'clock yesterday evening it was still producing nothing but water, and how much longer it will take, I don't know. So, it would be a matter of hours or a matter of days.

Q Well, in the case of the Watkins well being shut in for one day, after swabbing for two or three days, you haven't been able to get it back on the line; is that correct?

A Well, it was swabbed for one day and unloaded by itself. And, as I say, I don't have the information that was available this

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|          | morning.  |
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|          | Q But, assuming that it had been subjected to a test such           |
|          | as set forth by the Commission of testing the deliverability within |
|          | a twenty-four hour period immediately following the shut in, what   |
|          | would have been its deliverability factor?                          |
| 1        | A Well, there would have been no deliverability.                    |
|          | Q In other words, it would be deprived of that factor, which        |
|          | makes up seventy-five percent of this allowable?                    |
|          | A Yes.  |
|          | Q All right. Directing your attention to the Eva Owen               |
|          | Well No. 1, are you familiar with that particular well?             |
|          | A Yes, sir.   |
|          | Q In connection with that well, did you testify before the          |
|          | Commission in the November hearing?                                 |
| -<br>-   | A Yes, sir.   |
| <b>`</b> | Q I mean October hearing.   |
|          | A Yes, sir, I did.  |
|          | Q How long had the Eva Owen Well been shut in?                      |
|          | A The Eva Owen was shut in on July 15th, 1958, and an under-        |
|          | age was made up 7/20/59. That would be one year and five days.      |
|          | Q All right. Now, after overage had been made up, were              |
|          | you able to get the Eva Owen back on the line?                      |
|          | A No, sir. It hasn't been producing at the normal since             |
|          | the shut in period.   |
|          | Q Did you make a study of what its production has been              |
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since it has been back on production in relation to the allowable granted it?

A Yes, sir. It had been back on production for a period of nine months, and these figures only take eight months. And it has produced a total of 6,606 cubic feet.

Q All right. And how much was the allowable assigned to that well during that period?

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A Well, the allowable assigned to it was 29,000,181 cubic feet.

Q And how much is it unproduced at the present lime?

A Well, there was a new proration period took into effect the last of December, which cancelled out the approximate 16,000,000 that the well was under at that time. And it is now just a little over 13,000,000 behind.

Q Yet, that was the well that was shut in at one time for being overproduced?

A Yes, sir, for one year. And it looks to us like this is a prime example of what is going to happen to the rest of them in the very near future if they were shut in.

Q All right. Now, have you calculated the cost of putting on a pump unit on that particular well?

A Not on that particular well. On the Dyer No. 3 it was calculated, and it's estimated at eighty-five hundred dollars.

Q Have you made any calculation in regard to the Owen or the Watkins Well, either one, as to the cost of installing a pump?

Well, the pump jack would be very similar to the one in-A stalled on the Dyer 3. I mean, the figures would be used to one and the same. All right. Have you made any study as to the cost for Q producing gas through methods of operating a pump jack? Well, on the Dyer 3, estimated pay-out on the March, 1960 production, it will take sixteen and a half months to pay for the installation of the pump jack. 1. 2 Would that also include the operating cost of the pump? 0 1.0 14 A No, sir. 1 About what are the Company figures, if you know, of the Q 1.1 operating cost that is more or less a fixed charge to each well operated in that manner? It is one hundred and fifty dollars per month. Α 1 Did you calculate about how long it would take, consider-0 ing the hundred fifty a month flat charge, plus the cost of putting in the pump and unit? No, sir, I did not. But just on the basis of the cost of putting in the pump, Q it would take some sixteen and a half months to pay for the well at the present allowable --Yes, sir. -in order to pay for the cost of the pump? Q A Yes. Would that be true on all the wells, such as the Watkins Q DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE. NEW MEXICO Phone Chapel 3-6691

54 2 and the --Well, it would take longer in the Eva Owen and Watkins А 2 due to the low acreage. Thet would be just in proportion to the acreage factor, or almost proportional to it. (Whereupon, Applicant's Exhibit No. 18 was marked for identification.) Mr. Watson, I hand you what may be identified as Appli-Q cant's Exhibit No. 18, and ask you to explain what that instrument represents? This is also an El Paso chart, El Paso form, which we used. A One-point Back Pressure Test and Deliverability. And it is on the Eva Owen No. 1. And what period does it cover? Q It covers 3/6 through 13 of 159. A Now, what does the second page of the Exhibit cover? Ø. It is the same deliverability form, and it covers from A 5--the day of the test is 5/16/58. Now, does the Exhibit bear any notation in regard to Q the particular well as to the condition found by the tester? 131 Yes, sir, it does. Under the remarks at the bottom of A the page it says: "The shut-in used to calculate this test was taken from the nearest offset well (Sun-Lanchart #1," as requested by the New Mexico Oil and Gas Commission. And it actually wasn't a deliverability test of the Eva Q Owen No. 1 as set forth in the Rules? DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

A Yes, sir, it was.

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Q You say it was a deliverability test as set forth in the Rule?

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A Well, it was in the effect that at the time, according to this note, the shut-in used to calculate this test was taken from the nearest offset well which was provided for in the New Mexico Oil Conservation Commission Rules, that an offset well could be used if it was unable to be shut-in.

Q All right. Now, are there any notations on the first page of Exhibit No. 18? Any of any importance to this--

A The same notation that was on the Watkins No. 2, "the tubing did not have any pressure on the shut-in," which indicates that the water in the tubing is balancing out with the gauge pressure, as logged off.

Q Now, what differences can you determine between the two pages, that is, the page covering the test for 1958 as compared to the test in 1959, to show that this well is either losing pressure or capability to produce, if any appears?

A Well, although the deliverability is lower on the 1959 test, the rate of flow is less, and it's producing at a lesser tubing pressure and line pressure. And there was no casing pressure taken on the '58 test, so you can't compare that. So, even though the deliverability is lower, the well is actually.-- the pressures are all lower, tubing and casing both.

Do you have any opinion as to what is causing the pressure

56 to be reduced? Well, the whole area in the Jal area is -- the pressure is A dropping in the whole area due to the lower line pressure. And also, the increase in water, as the wells produce more gas. (Whereupon, Applicant's Exhibit No. 19 was marked for identification.) Q Now, Mr. Watson, I hand you here an instrument identified as Applicant's Exhibit No. 19, which contains five pages. Can you identify that instrument, please? Well, the first and second pages are El Paso Natural forms bf A the deliverability calculations. The fourth and fifth forms are "Multi-point Back Pressure Test for Gas Wells; El Paso Natural Gas form. Also containing the same information that is filed on the official New Mexico form. All right. Now, directing your attention to the Exhibit Q. and on page three thereof, being the test for April, 1958, what is the deliverability factor shown there? A Two hundred forty-eight MCF. All right. Now, for the testing period of March 13th, ۵ 1959, what is the factor shown there? Two hundred eighteen point eight MCF. A Is there a notation on that second page in regard to the Q 1959 test? Yes, sir. A Read that into the record, please. Q DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

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A The note here, "The pressure was taken from R. Olsen Winningham No. 3-- or "P sub c was taken from R. Olsen Winningham No. 3 well and could not be shut-in due to water logging off well bore."

Q All right. Now, on the first page of the Exhibit, being the report for April, 1960, what is the deliverability factor used there?

A It is calculated at 158.4 MCF.

Q In other words, nearly 200.differential between April of 1958 to April, 1960?

A Nearly 100.

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Q One hundred. That's right. I stand corrected. Now, in connection with the Dyer No. 3, did you make any further study in regard to the production habits of that well?

A I checked the charts after the well was put on the pump jack, and those production charts show a very unstable producing condition even with the pump jack moving the water.

Q Is it your testimony that the installation of the pump jack in itself was not an answer at all to the wells producing, such as these wells are being produced?

A What was that question?

Q That installation of a pump jack is not an answer at all to the producing of wells being produced where they have water in the production formation?

A Well, it's the best we can do right at the present time,

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| I mean.  |   | 58 |
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| ନ୍       | Does the installation of the pump itself answer all the |    |
| question | s?  |    |
| А        | No, sir. From the indication on the chart, it looks     |    |
| like it: | s going to log off even with the pump jack on.          |    |
| 0        | Popod -   |    |

Q Based on your observation of the Dyer No. 3, did you feel that that was the well that would be regulated just because it did have a pump jack on and protect your reservoir?

A I don't think it can be regulated close enough to entirely eliminate the problem we have here of overproduction, no.

Q In connection with your study of this application and the wells involved in this application, Mr. Watson, did you arrive at any conclusion that the rate of flow that these wells could maintain and still be produced without loss to the reservoir, or loss of their reserves?

A Well, about the only way they can be produced and prevent either abandonment or loss of reserves, or both, is the way they have been produced.

Q Well, now, what would be the rate of flow that would have to be allowed these wells at this time in order to maintain them? A Well, it's going to be somewhere in the neighborhood of three to four hundred thousand a day.

Q All right. And what would be true in the Eva Owen? A Well, if there is a pump jack installed, it's going to change the conditions there to where-- I mean, I think each well

will pretty well have to stand on its own. But under the present conditions, it won't even produce, so I have no way of -- It's going to have to go to a different medium of producing before we can come to any conclusion how much it will produce.

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Q You were familiar with the Eva Owen No. 1 Well prior to the time it was shut-in, were you not?

A Yes, sir.

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Q At the time that it was shut-in, do you know why it was shut-in?

A It was overproduced.

Q At the time it was shut-in, was it capable of producing more than the daily allowable that was assigned to it?

A Yes, sir, but I don't recall how much the daily allowable was.

Q Do you know whether or not it's comparable to the daily allowable assigned to the well at the present time?

A Yes, sir, it would be.

Q Was it more or less than the presently assigned allowable?

A Well, at that time I think the allowable was a little higher than it is at the present time.

Q At that time, or at the time it was shut-in, it was capable of making that allowable, was it not?

A Yes, sir.

Q And at the present time it's incapable of making that allowable that has been assigned?

A That's correct.

Q What do you attribute that loss of productivity to, if anything?

A Well, about the only thing it can be attributed to is by the shut-in period; allowing the water to move on in around the bore hole, and enough so that it won't go ahead and flow down.

Q As an engineer, Mr. Watson, what is your opinion as to the solution of allowing operators having wells, such as the wells in question here, to continue to produce their wells in an economical manner, and yet at the same time not turning them entirely loose, but prorate them in such a manner as to afford equal protection to all operators who have wells operating in the same manner these wells are?

A Well, it has occurred to me that the whole south end of that field down there, the pressure is dropping and the water is increasing, and not only in our wells but everybody's wells in the area. And it looks to me like it's right around the corner where all of these well will have to be either disseminated in a different pool, and, say, South Jalmat Pool, and taken out of the deliverability and the shut-in period of the proration. I mean that might not be the solution that we want, but it is a possibility.

Q Well, in parlance of the oil industry, are they considered wells such as stripper wells or wells on their last leg?

A They are definitely on their last leg.

Q And if they are not produced properly, the reservoirs

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attributable to the acreage would be lost, would they not?

A Yes, I believe they would.

MR. PORTER: We will have a ten-minute recess.

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(Short recess)

Q (By Mr. Girand) Mr. Watson, you have previously testified that you appeared on behalf of the Jal Oil Company in connection with the hearing this October, 1959, wherein the Repollo No. 1 Well was one of the wells, subject matter, of that hearing; is that correct?

A Yes, sir, it is.

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Q In connection with the Repollo No. 1 Well, and using it as an example of what may or what we anticipate will happen on subject wells, will you state to the Commission just what you observed in regard to the performance of the Repollo No. 1? That is, in regard to the reserves attributable to it, its production habits and manners, and what happened after the well was shut-in?

A Well, from the completion date in 1950, July, the well produced one year and ten months into the El Paso six hundred pound system. And in March 1953, the pump jack was installed, and the well was still going into the two hundred fifty pound system at that time. Now, it produced a total of five years and eight months into the two hundred fifty pound system, and at that time the water volume became so great that it wouldn't make any gas, and the line pressure was dropped in the area to one hundred pounds, and we continued to make gas for two years and nine months more. Now, that's

62 a total of one hundred eleven months production history on the well. During that period we produced 2,184,353 MCF, which the reserves were given some 6,000-- I don't have that total reserve figure, but the unrecovered reserves were 4,100--or 4,179,093, which leaves us recovering approximately one-third of the reserves attributed to the lease. And the total months that the well produced and the total gas volume that was made, it figures out that the average production per month was about 9,679 MCF per month for that period of nine years and three months. Now, this well was allowed, through the sanction of the Commission and the El Paso Natural Gas, to produce unrestricted for that period of time until it was shutin sometime in, I believe, July of 1959 for some test. And since that time the well has gone to nothing, and as far as we are concerned, it's gone forever. But it was producing gas up to the time it was shut-in Q for the test? Yes, sir, it was. All right. Now, basing your answer on your knowledge of A the area in the Jalmat Pool, and particularly this area in the south part there where the wells have made water, is it your opinion that the same result will be realized on the subject wells here, such as the Dyer No. 3, the Eva Owen, and the Watkins No. 2, if they are required to attempt to produce under the allowable? I think it's reasonable to compare the production from those wells with the Repollo production, and I think the results

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that have shown up in the Eva Owen very distinctly bear that out due to the one year shut-in period, and then we are unable to get the well back on production at the present time. And there is another thing here on that. The total reserves are much more than what has actually been recovered. I think the unrecovered reserves were 1,893,532 MCF.

Q Well, is it your-- Pardon me, go ahead.

A The allowable for the last nine months from July '59 through March of '60, the allowable attributed to that well was 3,677,000 cubic feet per month. And at that rate, the unrecoverable reserves-- I mean, if it flowed that rate every month, the unrecovered reserves would take five hundred fifteen months to actually recover, which is a little bit out of line. We know it won't produce that long.

Q Basing your answer on your knowledge of the area, and particularly of the wells, do you believe that it is practical from an economical standpoint to require these wells to be shut-in at any time?

A From our experience that we have had, no.

Q Do you feel that any requirement to have them shut-in at any time would result in a loss of and waste of gas in place?

A Yes, sir, I do.

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> Q All right. Do you believe that these wells should be exempt from such test as the deliverability test as called for by the Orders 967 and 1092-A?

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Yes, sir, I do.

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Q In that connection, though, can these wells be maintained at the existing allowable assigned to them under the producing methods that are required in order to obtain gas from well bores?

A Would you repeat that, please?

Q Well, by the same token, based on the allowable that is assigned to these wells at the present time, can they be operated without being shut-in for overproduction?

A Well, the Dyer and Watkins can not. The Eva Owen can't make its present allowable under the present conditions.

Q At the time the Eva Owen was shut-in, though, it was making more than the allowable because that was the reason it was shut-in?

A Yes.

MR. GIRAND: I believe that's all. MR. PORTER: Mr. Payne.

CROSS-EXAMINATION

BY MR. PAYNE:

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Q Mr. Watson, would you give me the acreage that is dedicated to each of these wells in amount; not by quarter-sections?

The Dyer No. 3 has 160 acres.

Q Yes, sir.

A The Eva Owen has 80 acres. And the Watkins No. 2 has 40 acres.

Q Now, Mr. Watson, are you familiar with the assignment No.

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9 in Order R-520, dealing with the Jalmat Pool?

A I don't recall what it is, no, sir.

Q Well, reading No. 9, Mr. Watson, it states "one gas well On the Jalmat Pool can sufficiently drain 640 acres." Now, do you believe that?

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A Given enough time, I assume it can.

Q Well, sir, you have testified now that if the gas doesn't come out of these wells, it's going to be lost. Now, why isn't it going to be produced from another well on the section?

A Well, at the rate that water is encroaching, it will--I think the gas is bound to be by-passed and left in place. And I don't see any other way it can happen.

Q So, some might be produced and some might be lost?

A Yes, sir.

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Q Now, Mr. Watson, do you know where the water can come from that is being produced through these three wells?

A No, sir. I only know the Watkins-- We know it's coming out of that twelve foot--

Q Have you had any analysis made to show whether it's salt water or fresh water?

A Well, it's a brackish salt water. It's neither salt nor fresh water.

Q Now, has Jal Oil Company investigated to determine whether there is a casing leak or whether the water from the Santa Rosa might be coming down the side of the pipe due to deterioration in

your cement job?

A Not to my knowledge, no.

Q Don't you think it would be of value to Jal Oil Company to know where this water is coming from?

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A Yes, sir.

Q Now, Mr. Watson, was there a correlation between the water production and the depth of the perforations, or the depth to which the well was drilled and not flood back?

A You mean it did as far as sub-soil or compared to other wells?

Q No. What I am getting at is, is there any correlation between the water production that you see out of these wells and the depth of the perforations? What I am still trying to get is, where is the water actually coming from?

A Well, it's normally assumed that the water would be coming out of the lowest zone in the well bore, but I don't think that is the case in your Yates Section. And then I think it's been found even in some wells further north of us there, that each sand lens or sand productive zone carries some fluid with it. It isn't confined to just one zone. Our problem would be simple if it were.

Q You feel, then, I take it, that water is coming from the Yates--

A Yes, sir.

Q --formation. Now, is it possible that since you completed your Watkins No. 1 with approximately six hundred feet of open hole

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in the gas section, that this water can be coming from the Queen formation due to your completion job on the Watkins No. 1, and that is where the water is coming from that you are getting in the other three wells?

A No, I hardly believe so, because the history on that water introduction there is more or less an overnight proposition, and we test that Queen Section well enough to know that there isn't that much oil in it.

Q That much water?

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A That wasn't there, that much water in it. There was a considerable amount of water, but the oil was very light, and it has been plugged back. I don't recall the depth of that. It's been too far back. But it was plugged back into the Yates Section. I don't know whether the records show it or not, but it was actually cemented back to the bottom of the Yates, or near the bottom, if not in the Yates.

Q What about the possibility of remedial work to shut off that water?

A Well, which well are you talking about?

Q On all three.

A On all three. Well, in the Watkins 2, I don't think there is any question about it. If you shut off the water, you would shut off the gas too.

Q You believe in that well, at least, the water is coming in through all the perforations?

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A It's just a necessary evil. If you are going to produce the gas, you are going to have to take the water with it. And I have never been successful in plugging off water in the Yates yet. Now, it might be possible to do, I don't know; but I have never successfully accomplished it myself.

Q Well, now, is that what you are going to attempt to do with the two wells that you depleted from your application? I believe there was some testimony that there was going to be some kind of work done on them.

A I think that will be in the neighborhood of a crack job.

Q Now, your Legal Well was shut-in in March, wasn't it? Your Legal No. 2?

A I don't know.

Q The end of March?

A It was shut-in-- Let's see. This is the 12th. I think maybe it was shut in the last two or three days of March, and then opened back up and then shut back in now.

Q Well, now, when you started producing it in again in April, did you find that it was logged off?

A Yes, sir, it was.

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Q You had swabbed it in?

A I don't know whether it was swabbed in or not. That could probably be better answered by one of the Company personnel, because I didn't start checking it until a few days before the hearing. I am not familiar with whether they did or didn't swab it off, although
69 I do know that it had to be either blown in or swabbed off. I don' think they swabbed it off. Now, as I understand your free piston method of production, in order to lift the water you have to produce gas? Yes, sir. Now, how does the pump jack method work? Α Well, there hasn't been very many pump jacks used in that 0 As far as I know, the Repollo was probably the first one А in New Mexico. You can produce it in that manner; you can produce 8.4 manner. gas out the casing and water out your tubing. And there is enough 14 1.5 water. The low pressures that we have down there, if you get the 14 tubing loaded with water out of your bore hole, there is no chance 14 桶 of it blowing around to the tubing. I mean, all your gas has to come out of your gas casing, because there is not enough casing ..... pressure left in it to push that water, a full load of water, out the tubing. So the way it's produced, it is pumped out the tubing and the gas flows out the casing. And the pump is above ground, your water pump? 1.3 No, sir, the water -- it's a subsurface pump. It's just a Q. 12.1 A 3 regular oil pump. No difference. Now, what you are interested in is keeping your water 1-\* Q 1.5 unloaded, I take it? Yes, sir. Conservation rather than getting more gas than your A Q neighbor? DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chopel 3-6691

A I think the Company would be entirely willing, if it were possible, to cut it back as much as the Commission desired. I mean--

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Q Well, now, the thing that bothers me, Mr. Watson, why can't you shut in your casing, which your gas is produced through, and pump your water out, and not have gas production along with it?

A Well, you would get a small amount of gas, and it may be possible to do that.

Q Well, how, couldn't you then shut in the casing, take the water out of the tubing and such gas as comes out with it, have a separator and then run that to your gas sales; and wouldn't that figure be less than the allowable presently assigned to the wells?

A If at such time as the well doesn't produce enough water to be flowing water and gas out of the casing, as was the case of the Repollo. Now, I mean, on the Dyer 3, I meant I don't know enough about the well. It's just recently been put on the pump jack, and it hasn't been thoroughly established as far as the possibilities are concerned, but in the case of the Repollo, it was flowing water and gas out of the casing and all, more water he we could blow out of it. So, it did flow out the casing a long time. So, eventually the water will go clear over. And when you shut the casing in, and after your water volume becomes so great, you can't produce anything but water out of your tubing, and your casing will still be loaded up.

Q Well, it will still be loaded up, but you will be pro-

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ducing the water as it comes in, won't you?

A A certain portion of it, yes.

Q And, now, what is the bottom hole pressure on each of these three wells? Do you have that? 71

A No, sir, I don't have the bottom hole pressure.

Q Well, what is the approximate depth of the oil?

A About twenty-nine hundred.

Q Now, if you keep the tubing full of water by this pump jack method and keep pumping the water out, isn't the hydrostatic head going to be sufficient to keep the gas from being produced out of that tubing?

A Yes, sir, it can be.

Q So, then, it looks like you could unload your water without producing gas?

A It's possible to unload some of it. Now, whether you are going to unload enough of it to keep it from logging off, that's kind of a trial and error method, after you get your operation going.

Q I see. Mr. Watson, has the Jal Oil Company considered the possibility of reinjecting the gas, either into the well which produced it, or into an adjacent well?

A I can't speak for the Company on that.

Q Well, these wells are fairly adjacent to each other, aren't they? They are close to each other?

A Well, there is four of them pretty close together, and

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Q Well, now, couldn't you install a central compressor, reinject this gas back into the reservoir, and thereby unloading your water and still keeping your producing rate within the allowable?

A Well, a small amount of gas involved in this whole situation wouldn't warrant setting a twelve, fifteen thousand compressor, I don't believe.

Q Well, let's talk about that a minute. I believe you testified that these were on their last legs, or Mr. Girand there. And on the other hand, your reserves show, oh, approximately two hundred thousand dollars worth of recoverable gas for each of these wells.

A Well, let me ask you this: Do you think just subjecting our gas in that two or four wells that would be involved would be enough to keep that water from just flooding the whole situation now?

Q Well, I am not the one testifying.

A It was your suggestion.

Q That's what I am trying to find out from you. Now, you've got two hundred thousand dollars of recoverable reserves in each one of these wells, approximately. Surely you wouldn't mind spending twenty-five thousand dollars to get it. By the way, how are these reserves computed? Was that a pressure production decline method nor for your volume analysis?

A I don't know how the man computed it.

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| Appropriate in the second s | Q And Jal Oil Company, as such, hasn't actually made a             |
| 1. (4) 2 <sup>-10-1</sup><br>1.   | study of the reserves, other than hiring                           |
| )   | A An outsider.   |
| -   | Q And the line pressure which was checked out was approxi-         |
|   | mately a hundred pounds?   |
|   | A Yes, sir. I mean it will vary from sometimes ninety-six          |
|   | up to maybe a hundred fifteen or eighteen pounds.                  |
|   | Q Just depending on  |
|   | A Just depending on how well El Paso's compressors are             |
|   | running.   |
|   | MR. PAYNE: Thank you.  |
|   | MR. PORTER: Mr. Nutter.  |
| C.  | QUESTIONS BY MR. NUTTER:   |
|   | Q Mr. Watson, just exactly what do you expect to accomplish        |
|   | in the manner of operation that you are seeking in, an opportunity |
|   | to try out here? In other words, if the Commission should grant    |
|   | you the relief that you have requested on the Watkins No. 2 Well,  |
|   | for instance, how much gas do you think you would be able to pro-  |
|   | duce?  |
|   | A You mean out from the recovery?                                  |
| ×   | Q Per month.   |
|   | A Well, I think the testimony established that it would            |
|   |  |
|   | flow at the rate of about three hundred twenty-five MCF per day,   |
|   | which, I am sure they would be willing to keep it I mean, just     |
|   | as long as it's flowing and keeping the water off the formation,   |
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that's all we are asking.

Q Well, now, haven't there been times when in that well's life, as shown on the chronology of the activities here, when the well was producing something like less than that amount of gas and didn't seem to be logging on?

A Well, it's possible that it might have.

Q I notice here on November 26th to November 30th the well produced nine hundred eighty-seven MCF. This is the Watkins No. 2 Well; it produced nine hundred eighty-seven MCF. And it doesn't appear that there was any trouble until you changed the orifice from three-quarters to one-quarter to see if you could produce less gas and not log off.

A Well, that's correct. I mean they were attempting to establish a lesser amount of gas, a lesser rate of flow, the least amount of gas that could be supplied per day and keep it on the line.

Q But this is considerably less than the amount of gas just mentioned that the well would produce and not log off?

A Well, now, maybe I misunderstood you.

Q You said something about three hundred twenty-five MCF per day.

A Yes, sir. Just a second; let me check. What date were you referring to?

Q This was November 20th to the 30th, which would be nine days. It was averaging just a little over a hundred per day,

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Well, it doesn't say what date the orifice was changed, I assume that the orifice was changed at the end of the wasn't it? Well, in case it did, it was only making a little over a Figh A does it? nine-dey period. Was that--**W**i But then you go on from December 1st to the 8th, the well produced two hundred twenty-one MCF and died and would not hundred MCF per day,--\* N. This was with the quarter inch orifice? So, it would appear that a quarter inch orifice would blow around. Q Now, what system of production does this Watkins No. 2 Yes. A cause it to load up? There was no mechanical device on it. 4 3 Yes, sir. Was this a floating piston well? A just making as best as it can-Q, --pumping the water as it comes out of the formation? -No, sir. use? This is Now, on your Dyer No. 3, that is the well that has the A ¥ Q Jea. A Q Right. A pumping jack on it now? DEARNLEY MEIER & ASSOCIATES DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS GENERAL LAW MEXICO ALBUQUERQUE, NEW MEXICO ALBUQUERQUE, NEW MEXICO Phone Chapel 36091 ALC: NO

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| د.<br>منابع          | wasn't it?   |
|                      | A Well, it doesn't say what date the orifice was changed,  |
| 9                    | does it?   |
| -<br>-               | Q I assume that the orifice was changed at the end of the  |
| <b>.</b>             | nine-day period. Was that  |
|                      | A Well, in case it did, it was only making a little over a   |
| r                    | hundred MCF per day,   |
|                      | Q Now,   |
| <mark>ا</mark>       | A But then you go on from December 1st to the 8th, the   |
| i                    | well produced two hundred twenty-one MCF and died and would not  |
|                      | blow around.   |
|                      | Q This was with the quarter inch orifice?  |
| \$                   | A Yes.   |
| (date)               | Q So, it would appear that a quarter inch orifice would  |
|                      | cause it to load up?   |
|                      | A Yes, sir.  |
|                      | Q Now, what system of production does this Watkins No. 2   |
|                      | use? Was this a floating piston well?  |
|                      | A No, sir. There was no mechanical device on it.   |
|                      | Q This is just making as best as it can  |
| и<br>-               | A Yes.   |
| 2                    | Q pumping the water as it comes out of the formation?  |
|                      | A Right.   |
|                      | Q Now, on your Dyer No. 3, that is the well that has the   |
|                      | pumping jack on it now?  |
|                      |  |
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A Yes, sir, it is.

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Q How much do you think you will be able to produce if the Commission grants you the relief you requested, using the pumping jack?

A Well, the deliverability is only one hundred fifty-eight MCF.

Q Now, is that deliverability test taken with a pumping jack in operation?

A Yes. And if I may check back and see what the -- The rate of flow at that deliverability was two hundred fourteen MCF So, I don't think it would be over that. I think it could be kept to that.

Q What was your average in the period of February 22nd to March 1st? Your pump was running to keep the formation clear of water and produced eleven hundred ninety-two MCF of gas during that period. How much would that be?

A That's still on the Dyer; right?

Q Yes, sir, this is the Dyer.

A Give me those dates again, please.

Q Was February 22nd and March 1.

A That would be eight days. An average of that would be a hundred forty-nine MCF per day, would it not?

Q I believe that's somewhere in the neighborhood of the figures. Now, referring to the Eva Owen No. 1 Well, what is the method of production on this well?

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A Well, up until this last go-around, after it was shut-in it was producing on a piston at the time it was shut-in, and it has been attempted to produce it on the piston since then, and unsuccessfully.

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Q From the chronology of activities here on Exhibit No. 10. it doesn't appear to presently be producing any rate of production that has been particularly successful on this well, has it?

A That is correct. I mean, as far as the piston or even able to flow into the line at any rate, I think it's passed.

Q Is it your intention to place a pump jack on this well? A I can't say. I haven't talked to the Company people to see, but I assume--

Q Can a pump jack be placed--

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A --if there is any more gas to be produced, it's necessary, yes, sir. However, the pay-out on that particular project will be in accordance with the acreage factor. And I think I stated, as on the Dyer 3, it would be about sixteen and a half months payout, and it will be approximately double on this, or thirty-two to thirty-six months on the Eva Owen.

Q You are assuming there, for the purpose of making a calculation, that you wouldn't get any relief, and that you would have to operate under the Commission's allowable for the well; is that correct?

A That's correct.

Q Now, if you would get this relief, and you were able to

DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691 produce the well with a pump jack, how much gas would you make? A We don't know. We may not be able to even make what it

made before. That is something that nobody can answer, I don't

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think.

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Q Mr. Watson, has any attempt ever been made on any of these wells to install a smaller diameter tubing to see if that would increase the flow?

A I believe not.

Q In some instances, isn't it true that installing a smaller tubing will improve flow efficiency?

A Well, now, I haven't had any experience along that line, so I can't say. But it stands to reason, I mean, from an engineering and lifting standpoint that it would possibly help it.

Q I noticed on one of these Exhibits one of the wells had two inch tubing and one had two and a half inch tubing. What did the third well have, do you know?

A No, I can't say what--

Q I believe the Exhibit reflects that you had two wells with two inch tubing and one with two and a half inch tubing. I stand corrected. Two of the wells have two and a half inch --

A Two have two and a half.

Q -- and one has two inch.

A Well, it's possible that it would have had a longer flowing life with two inch. I'm sure it could have been somewhat longer. I mean, it's a little bit--

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5 - A 79 I suspect they have had a longer life by having tubing Q in them than they would have had if you hadn't had the tubing on them? Yes. There is no question in my mind about it. Α MR. NUTTER: I believe that's all. 1.0 QUESTIONS BY MR. UTZ: 14. Mr. Watson, do you have completion data available there Q 1.2 1 2 to answer some questions in regard to the total depth? ٤. I believe we do. Just a second. Which one would you A 1.5 prefer first? 13 I would like to know what the total depth is on the Wat-Q 12 kins No. 2. Casing was set through on that well. À Casing was set where? Q The casing was set through the pay, and the plugback · A depth is 2968. Just a second here, I will get the TD, where it was drilled to. I think it was drilled to a total depth of 2987, and 2973 feet of five and a half casing was run and cemented. Casing was set at 2973? Q Well, there was 2973 feet of casing run, and it was set A at 2983. Direct floor measurements. So, you have about three or four feet of open hole below 6 the casing; is that correct? Yes, sir. It's approximately three feet, because this A is 2983.7. DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone Chapel 3-6691

80 Was your tubing set at 2869? Q А I will have to check because I am not sure. Yes, sir, 2869. Well, that would leave about eighteen feet of hole Q below the bottom of the tubing; is that correct? Eighteen foot below the bottom of the tubing? If you A said it was set at 2869, there would be approximately a hundred feet. That's right Hundred nineteen feet. Do you think it's Q possible the water could be coming from that hundred eighteen feet over--Well, we are still talking about the Watkins 2? Α That's right. You have some open hole below the base of Q the shoe, five and a half casing shoe. Well, that's only three feet. A Well, yes, that's true. Q Your perforation is there to 2942 to 54. And it's --Α Do you think there is any water in that open three feet Q. of hole? Well, I can't say whether there is or isn't, but accord-A ing to the core, it sure didn't look like there would be. It was hard dolomite. There would not be? Q Yes, there wouldn't be. A You really don't know where the water is coming from in Q

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|          | A Except it's coming through those perforations. As far   |
| as th    | e exact place where it's coming from, no.                 |
| 4        | Do you know whether the cement job is open?               |
| A        |   |
|          |   |
| Á        |   |
| ଢ        | Now, on your Owen No. 1, do you have the total depth for  |
| that w   | ell?  |
| A        | Total depth is 2776.                                      |
| Q.       | The tubing was set at 2772.                               |
| A        | Well, that tubing has been changed two or three differ-   |
| ent tim  | es. It shows to be two and a half tubing at 2772.         |
| Q        | Then, do you have approximately four feet of open hole    |
| below th | ie tubing?  |
| A        | Yes, sir.   |
| Q        | Do you know whether any water is coming from that zone    |
| or not?  | that zone   |
| Α        | Not for sure, no, sir.                                    |
| ନ୍       | You haven't tested the well to find out?                  |
| A        | As far as I know, no, it hasn't been.                     |
| ନ୍       | Is that well producing through the tubing?                |
| A        | Yes, sir. Well, it was. It's dead now.                    |
| Q        | Pardon?   |
| A        | I say it was producing through the tubing before it died. |
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|            |           |   |   |
|            | Q         | It's not producing at all, now?   |   |
| N          | A         | No, sir.  |   |
|            | Q         | On the Dyer No. 3, what is the total depth of that well?                |   |
|            | A         | Total depth is 2977.  |   |
|            | Q         | And the two and a half inch tubing was set at 2960?                     |   |
|            | A         | Well, I suspect that that tubing was changed in this                    |   |
|            | recent in | stallation of the pump jack I don't know.                               |   |
| ,          | Q         | This well does have a pump jack on it?                                  |   |
|            | А         | Yes, sir. Well, now, it's flowing gas through the cas-                  |   |
|            | ing and   | waterpumping the water through the tubing.                              |   |
|            | Q         | Actually, it would have seventeen feet of open hole below               | h |
|            | the tubin | g from which the water is being pumped?                                 |   |
|            | А         | Yes, sir.   |   |
|            | Q         | Do you know whether or not the water is coming from this                |   |
|            | zone?     |   |   |
|            | Α         | No, I don't know.   |   |
| ~          | Q         | You haven't tested the well to find out?                                |   |
|            | А         | No, sir. It hasn't been.  |   |
|            |           | MR. UTZ: That's all I have.   |   |
|            | ₩         | MR. PORTER: Any furthur questions?                                      |   |
| <i>x</i> . |           | MR. UTZ: One further question.  |   |
|            | QUESTIONS | BY MR. UTZ:   |   |
|            | Q         | Do you have any idea where the gas and water contact is                 | : |
|            | in this a | rea?  |   |
|            | A,        | No, sir. As I stated before, it has been found that the                 | ÷ |
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water, each individual sand, will usually carry some fluid, whether it's high or low. And as you go north of Jal, your casing will carry a little oil in the top section and produce dry gas out of it.

Do you think you have a partial water-dry in this area? Evidently, it has to be, because I don't know of any other Α area where there is water in the Yates like there is in this area we are talking about right here. Now, how it got there, I don't know, but I would assume it is a week or semi-weak, but actually, it's getting stronger water drive.

(By Mr. Payne) This hasn't always been present in this Q interval?

Yes, sir. On the Dyer 3, and the Legal 2, and the Jen-Α kins are all right in one year, and they all make a small amount of water on completion. QUESTIONS BY MR. UTZ:

But there has been an encroachment of water? Q

There has been an encroachment as time has gone on. Α

MR. UTZ: That's all I have.

BY MR. GIRAND:

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REDIRECT EXAMINATION

Mr. Watson, I believe they have suggested certain things Q such as pumping the water and compressor stations, changing the tubing, things of that nature. Do you feel that the wells in their present condition would warrant the expense of such operation with-

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84 out knowing what the results would be? Well, it's just a gamble whether you would ever see the A money again, I mean, as far as anything you do. The installation of a pump jack seems to be the safest way out over an extended period of time. But if the wells are shut-in even with the pump jack on them I am not sure what the results are going to be. MR. GIRAND: I believe that's all. MR. PORTER: Any further questions of the witness? MR. GIRAND: I want to reoffer all Exhibits, 1 through 18. MR. PORTER: Without objection --Well, Exhibits 1 through 19. MR. GIRAND: Without objection, the Exhibits will be ad-MR. PORTER: mitted. (Thereupon, Applicant's Exhibits 1 through 19 were received in evidence.) MR. PORTER: The witness may be excused. MR. GIRAND: That's all we have to offer at this time. MR. PORTER: Does anyone else have any testimony to offer in this case, 1941? Anyone have a statement to make? Mr. Kastler. MR. KASTLER: Bill Kastler from Roswell, New Mexico, representing Gulf Oil Corporation. Gulf is an independent offset operator interested in the outcome of this case; our offset lease covers Section 32. We feel that no legal or equitable reasons for extending this exception has been shown in this case, which now DEARNLEY MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE, NEW MEXICO Phone CHopel 3-6693

exists under the present Jalmat Field Rules. And, therefore, we enter our opposition.

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MR.PORTER: Mr. Bratton.

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MR. BRATTON: Howard Bratton, Roswell, New Mexico, appearing on behalf of Humble Oil & Refining Company. Humble objects to the exception of Jal Oil Company Owen Well No. 1, Dyer No, 3, and Watkins Well No. 2 from prorationing of--according to the Jal-<sup>mat</sup> Rules and Regulations for the reason that we are also operators in the Jalmat Gas Pool of properties in close proximity to two of the subject wells, and feel that exemption of these wells would rule in violation of our correlative rights. The exemption of one operator in a pool from prorationing would be a violation of the correlative rights of the other operators who must remain subject to the Pool prorationing Rules.

MR. PORTER: Anyone else have any statement to make? Mr Hughston.

MR. HIGHSTON: R. L. Hughston, Shell Oil Company. Shell Oil Company is an operator in the Jalmat Gas Pool, and is opposed to the granting of the Jal Oil Company's requested exceptions. We in general, feel that the removal of prorationing in a selected area of a competitive reservoir is a bad thing; that the proration ing formula of the Rules, whether they are popular or unpopular, should be applied uniformly and equitably to all operators in the Field; that the correlative rights of the operators will be affected to the injury of some, and to the advantage of others. Here, if an

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exception is allowed, the effect on the correlative rights of other operators might be small, but a bad precedent would be set. We think that Jal should be limited to the method of others in Jalmat Field who are faced with the water problem, which method is through the use of remedial measures.

MR. PORTER: Anyone else have a statement to make? The Commission will take the case under advisement.

STATE OF NEW MEXICO ) ) ss COUNTY OF BERNALILLO )

I, THOMAS T. TOMKO, Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript by me, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this, the <u>15</u> day of <u>April</u>, A.D. 1960, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Notary Public

My Commission expires: January 7, 1964

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DRAFT OEP:esr April 21

In OSAL PARALES

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 1941

Order No. R- 1655

Application of Jal Oil Company for Exceptions to Various provisions of orders R-520, R-967, and R-1092-A for 3 wells in the JALMAT GAS POOL, LEA COUNTY, NEW MEXICO.

## ORDEF OF THE COMMISSION

## BY THE COMMISSION:

## /Hobbs,

This cause frame on for hearing at 9 o'clock a.m. on April 13, 1960, at/Bankax Rex New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this <u>day of April</u>, 1960, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

## FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof. -2-CASE No. 1941 Order No. R-\_\_\_\_

(2) That the applicant is the owner and operator of the following-described wells in the Jalmat Gas Pool, Lea County, New Mexico:

Dyer Well No. 3, SE/4 NE/4 of Section 31, Township 25 South, Range 37 East

Owens Well No. 1, SW/4 SW/4 of Section 21, Township 25 South, Range 37 East

Watkins Well No. 2, SE/4 NE/4 of Section 35, Township 24 South, Range 36 East.

(3) That according to the testimony presented, each of the above-described wells makes a considerable amount of water, the Dyer Well No. 3 approximately 35 barrels per day, the Owens Well No. 1 approximately 40 barrels per day, and the Watkins Well No. 2 approximately 250 barrels per day.

(4) That all of the subject wells were the subject of an Examiner Hearing in Case No. 1779, heard October 7, 1959, after which hearing the said Dyer Well No. 3, which was subject to complete shut-in for being more than six times over-produced, was exempt from complete shut-in and the operator was permitted to make up this well's over-production by producing it at a monthly rate not to exceed 75% of the well's current allowable or at a rate not to exceed 75% of the well's average monthly allowable for the preceeding six-month proration period, whichever was greater.

(5) That at the time of the said Examiner Hearing the said Owens Well No. 1 and the said Watkins Well No. 2 were substantially in balance. Since these two wells were not subject to shut-in for over-production, in the opinion of the Commission no relief was necessary.

(6) That the latest gas production figures show that the Owens Well No. 1 is under-produced rather than over-produced and thus it apparently needs no relief.

(7) That the said Watkins Well No. 2 is approximately twelve times over-produced and, under the provision of Order R-520 and -3-CASE No. 1941 Order No. R-

Order R-967, is subject to complete shut-in until such time as substantial Astim of this if lecouls less thank times.

(8) That due to liquid problems, the applicant should be permitted to produce the said Watkins Well No. 2 at monthly rate not to exceed 75% of the well's current allowable, or at a monthly rate not to exceed 75% of the well's average monthly allowable for the preceeding six-month proration period, whichever is greater.

(9) That due to liquid problems, the applicant seeks an order cancelling the over-production incurred by each of the subject wells and exempting these wells from the requirements of an Annual Deliverability Test. In addition, the applicant requests that these wells be exempt from prorationing as it is now practiced under the Jalmat Gas Pool rules.

(10) That the said Watkins Well No. 2, which makes a substantial amount of water, is being produced without a free - piston or pump-jack installation, even though applicant's experience with other wells in the same general area has been that such mechanical devices are useful in keeping water unloaded from well bores.

(11) That the water produced from the said Owens Well No. 1 is being lifted by means of a free-piston installation. Such an installation requires that the water be lifted by gas production, and if the gas allowable assigned to this well is insufficient to keep the water unloaded from the well, the operator could install a pump-jack to accomplish this purpose.

(12) That a pump-jack has recently been installed in the and Dyer Well No. 3 and the evidence does not establish that this installation is inadequate to keep the water unloaded from this well.

(13) That a pump-jack installation operates independently of gas production and, from an engineering standpoint, there appears to be no reason why such an installation, if properly -4-CASE No. 1941 Order No. R-

sized, can not keep the formation clear of water, while keeping the gas production at a level within the gas allowable assigned to the well.

(14) That the applicant has apparently made no study or investigation to determine where the water produced by the subject wells is coming from. Further, the applicant has apparently made no study to determine whether the water production for the study to find the water production.

(15) That the applicant has not made a study to determine whether or not it would be feasible to produce the wells in such a manner as to keep the formation clear of water and then re-inject the amount of produced gas which is in excess of the allowable assigned to well.

(16) That according to the applicant's testimony as to the recoverable reserves underyling the tracts dedicated to each of the subject wells, the applicant should be willing to perform the remedial work necessary to alleviate his water problems, or to install such mechancial installations as are necessary to keep the formation clear of water, since such work would apparently be economically feasible.

(17) That 160 acres is dedicated to the said Dyer Well No. 3, 80 acres is dedicated to the said Owens Well No. 1, and 40 acres is dedicated to the said Watkins Well No. 2, so that even in the event that the production from one or more of these wells is lost due to water encroachment, which event should occur makes every effect to prevent it, entry if the operator acts in an imprudent manner, there should be no ultimate loss of gas from the Jalmat Gas Pool, inasmuch as one well in this Pool will efficiently and economically drain 640 acres, and the gas underlying the tracts dedicated to each of the subject wells presumably would be produced from offset wells.

(18) That in regard to certain of the applicant's wells, a re-dedication of acreage would be feasible and could result in

-5-CASE No. 1941 Order No. R-

an increase of the per well allowable.

That to cancel the over-production which the subject (19)wells have thus far incurred would impair the correlative rights of other operators in the Jalmat Gas Pool, and to permit any well. to consistently produce more gas than is assigned as an allowable to such will in a (20) That since the allowable assigned to each wells in the

Jalmat Gas Pool is dependent in part upon a # well's calculated deliverability as determined by an Annual Deliverability Test, F wells the subject/should not be exempt from such test. Presumably the reason for the applicant's request that the subject wells be exempt from Deliverability Test is so that they will not have to be shut-in prior to the pre-flow period. This shut-in period can and should be dispensed with by allowing the applicant to highest of the the four marcut wills in the Jatuat gas Pool use the shut-in pressure of in taking the Deliverability Test on each of the subject wells.

(21) That the applicant has failed to establish any compelling reason why the Commission should exempt the subject wells from gas prorationing, an action which would be a radical departure which from present Commission policy and would have far-reaching effects.

IT IS THEREFORE ORDERED:

(1) That the application of Jal Cil Company for an order exempting the following-described wills in the Jalma Gas Pool from gas provationing, and for an order can-celling the overphoduction incurred by leach of said wells and exempting them from deliverability tests be and The same is hereby denied : Wyer Well No. 3, SE/4 NE/4 & Section 31, Sourchip 25 South, Range 37 East QUERS Well No. 1, SW/4 SW/4 of Dection 21, Downship 25 South, Range 37 East Watkins Well No. 2, SE/4 NE/4 of Section 35, Downship 24 South, Range 36 East all in hear County, Tew mexico. (2) That the operator be and the same is hereby on the orized to compensate for the outpeduction incurted by said wetkins well No. 2 by preducing it at a non the rate not to exceed 750% of the well's cureent allocioble of at a monthly rate not to breed 75% of the will's arraged. nonthly allowable for the preceding sit - month provation

(3) That in taking the annual Deliverability Dest' on each of the above - describe & wells, the operator be and the same is hereby anthorized to use the highest of the shut-in pressures of the four meanest wells in the Johnat Jac Pool.