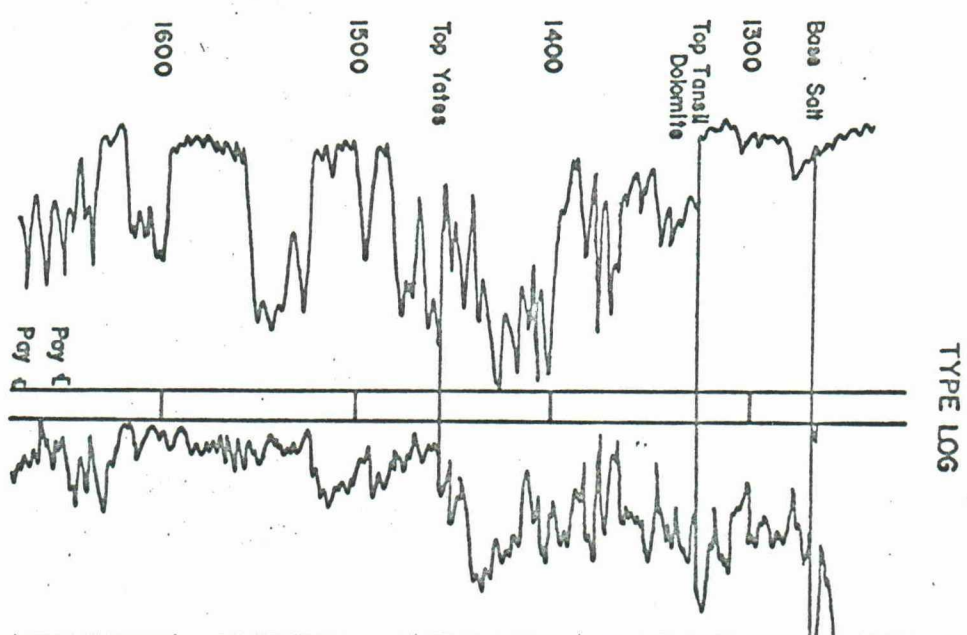
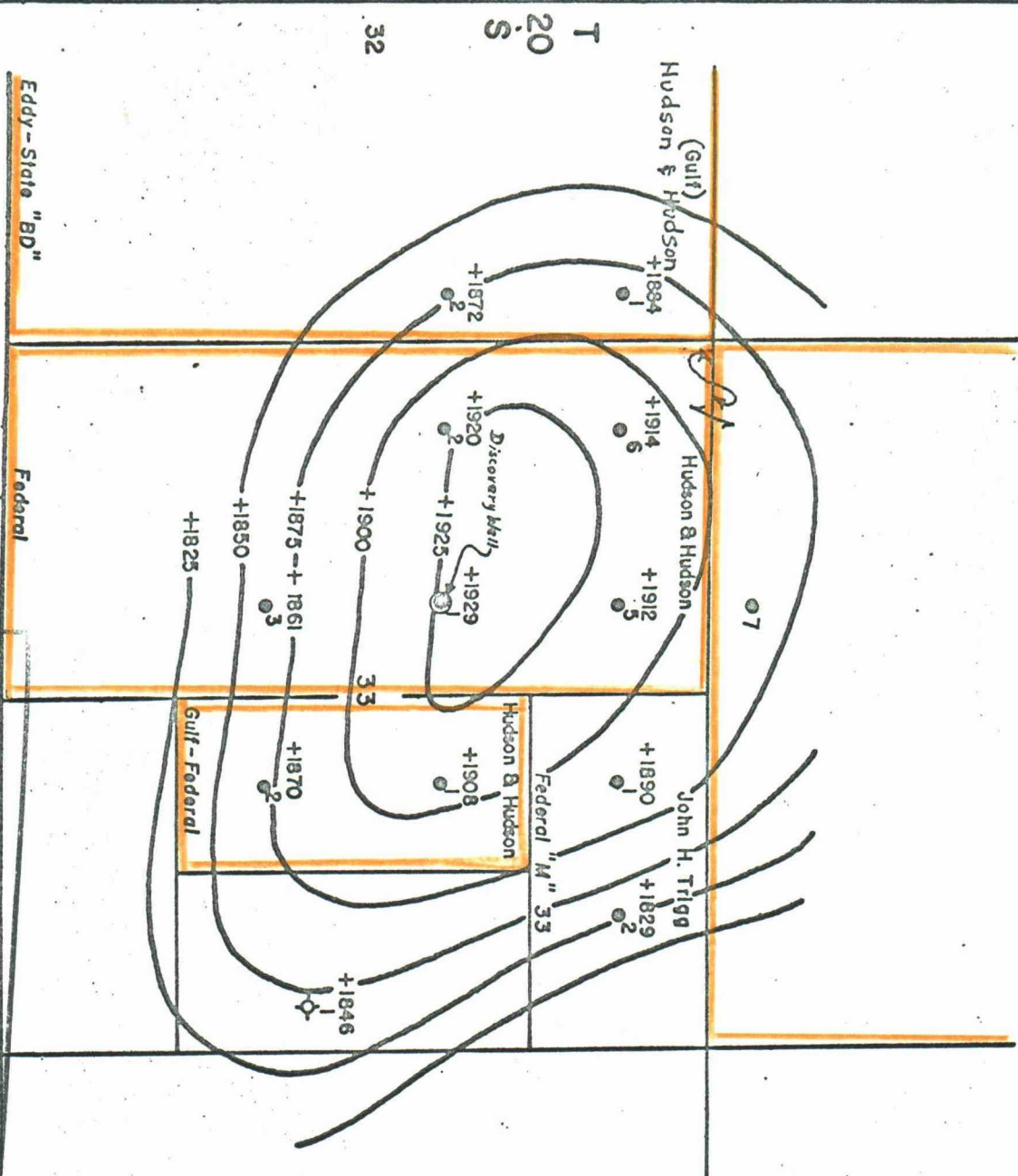


R 30 E



BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

Case No. 3158  
Exhibit No. 1

DOS HERMANOS FIELD  
EDDY COUNTY, NEW MEXICO  
STRUCTURAL CONTOURS ON  
TOP OF YATES  
SCALE IN MILES  
0 1/4 1/2

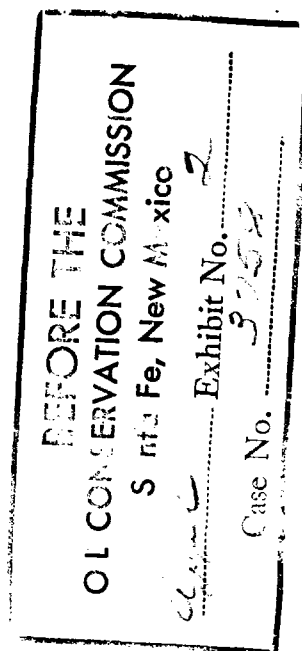
Exhibit #1

WILLIAM A. & EDWARD R. HUDSON WELL DATA

LEASES IN DOS HERMANOS POOL

| WELL NO.         | ELEVATION | COMPLETED | TOTAL<br>DEPTH | CASING<br>SIZE-DEPTH | SACKS OF<br>CEMENT | SURFACE CASING |       |            |
|------------------|-----------|-----------|----------------|----------------------|--------------------|----------------|-------|------------|
|                  |           |           |                |                      |                    | SIZE           | DEPTH | SX. CEMENT |
| Federal #1       | 3372      | 7- 1-55   | 1642           | 7" 1468<br>2" 1634   | 15                 | 8-5/8"         | 728   | 225        |
| Federal #2       | 3361 GL   | 11-22-55  | 1610           | 8-5/8 823<br>7" 1590 | 750<br>375         | 10"            | 397   | 745        |
| Federal #3       | 3384 DF   | 1-24-56   | 1730           | 8-5/8 1696           | 500                | 10-3/4"        | 480   | 500        |
| Federal #5       | 3370 GL   | 3-22-56   | 1654           | 7" 1613              | 275                | 8-5/8"         | 475   | 275        |
| Federal #6       | 3355 GL   | 4- 7-56   | 1667           | 7" 1600              | 275                | 8-5/8"         | 493   | 150        |
| Federal #7       | 3346 DF   | 3- 1-57   | 1710           | 7" 1690<br>2" 1713   | 275                | 8-5/8"         | 485   | 125        |
| Gulf Federal #1  | 3372 DF   | 2-18-56   | 1634           | 7" 1615              | 275                | 8-5/8"         | 471   | 175        |
| Gulf Federal #2  | 3362 GL   | 5- 9-56   | 1706           | 7" 1648              | 275                | 8-5/8"         | 477   | 150        |
| Eddy "BD" St. #1 | 3358 GL   | 6-21-56   | 1689           | 5 1/2" 1620          | 600                | 8-5/8"         | 450   | 200        |
| Eddy "BD" St. #2 | 3365 GL   | 8-27-56   | 1696           | 5 1/2" 1620          | 600                | 8-5/8"         | 450   | 200        |

Exhibit #2



WILLIAM A. & EDWARD R. HUDSON

BEFORE THE  
OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

OIL PRODUCTION - DOS HERMANOS POOL

Exhibit No. 4

Case No. 3758

EDDY "RD" STATE

|             | FEDERAL<br>LEASE | GULF FEDERAL<br>LEASE | LEASE      |
|-------------|------------------|-----------------------|------------|
| 1965 - Jan. | 1,870            | 745                   | 108        |
| Feb.        | 1,653            | 602                   | 175        |
| Mar.        | 1,868            | 741                   | 205        |
| Apr.        | 1,935            | 712                   | 158        |
| May         | 1,917            | 742                   | 174        |
| June        | 1,844            | 629                   | 166        |
| July        | 2,055            | 714                   | 163        |
| Aug.        | 1,852            | 747                   | 160        |
| Sept.       | 1,928            | 708                   | 136        |
| Oct.        | 2,065            | 710                   | 169        |
| Nov.        | 1,921            | 1,138                 | 138        |
| Dec.        | <u>1,967</u>     | <u>220</u>            | <u>157</u> |
|             | 22,875           | 8,408                 | 1,909      |

Total 1965 Oil Production - - - - 33,192

|             |                   |                  |            |
|-------------|-------------------|------------------|------------|
| 1966 - Jan. | 1,898             | 685              | 171        |
| Feb.        | 1,668             | 578              | 131        |
| Mar.        | 1,856             | 681              | 174        |
| Apr.        | 2,062             | 630              | 146        |
| May         | 1,774             | 599              | 147        |
| June        | 1,656             | 633              | 155        |
| July        | 1,701             | 686              | 135        |
| Aug.        | 1,287             | 630              | 132        |
| Sept.       | 1,713             | 598              | 141        |
| Oct.        | 1,551             | 661              | 165        |
| Nov.        | 1,619             | 584              | 107        |
| Dec.        | <u>1,349</u>      | <u>595</u>       | <u>149</u> |
|             | <del>20,134</del> | <del>7,560</del> | 1,753      |

Total 1966 Oil Production - - - - 29,447

|             |              |            |            |
|-------------|--------------|------------|------------|
| 1967 - Jan. | 1,632        | 592        | 149        |
| Feb.        | 1,633        | 523        | 105        |
| Mar.        | 1,749        | 578        | 132        |
| Apr.        | 1,707        | 529        | 132        |
| May         | 1,704        | 567        | 127        |
| June        | 1,381        | 499        | 114        |
| July        | 1,389        | 567        | 134        |
| Aug.        | 1,826        | 584        | 127        |
| Sept.       | 1,620        | 568        | 105        |
| Oct.        | 1,510        | 540        | 102        |
| Nov.        | 1,681        | 538        | 143        |
| Dec.        | <u>1,642</u> | <u>537</u> | <u>119</u> |
|             | 19,474       | 6,622      | 1,489      |

Total 1967 Oil Production - - - - 27,585

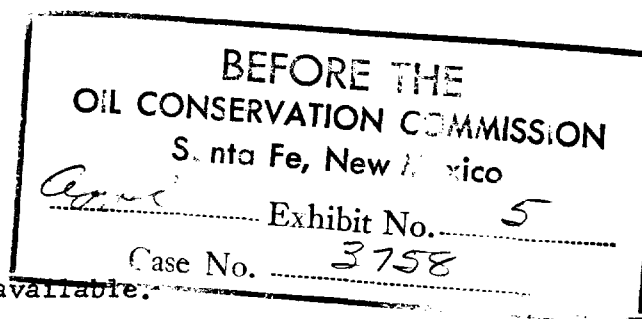
Exhibit \*4

WATER PRODUCTION - WILLIAM A. & EDWARD R. HUDSON LEASES

DOS HERMANOS POOL

| <u>YEAR</u>   | <u>FEDERAL LEASE</u> | <u>GULF FEDERAL</u> | <u>EDDY "BD" ST.</u> |
|---------------|----------------------|---------------------|----------------------|
| 1955          |                      |                     |                      |
| 1956          | 14,400               |                     | 1,060                |
| 1957          | 21,600               |                     | 1,273                |
| 1958          | 401,435*             | 10,178*             | 2,018*               |
| 1959          | 824,470              | 20,356              | 3,291                |
| 1960          | 767,510              | 18,355              | 6,477                |
| 1961          | 670,605              | 14,835              | 38,128               |
| 1962          | 614,774              | 13,773              | 111,624              |
| 1963          | 521,002              | 11,191              | 84,902               |
| 1964          | 438,828              | 9,570               | 61,054               |
| 1965          | 407,470              | 8,813               | 53,544               |
| 1966          | 361,415              | 7,934               | 48,422               |
| 1967          | 353,817              | 6,952               | 40,694               |
| 1968 (3 Mos.) | <u>81,312</u>        | <u>1,649</u>        | <u>8,458</u>         |
|               | 5,478,638            | 123,606             | 460,945              |

\* Estimated. Actual water production figures not available.



*Exhibit #5*

WILLIAM A. & EDWARD R. HUDSON LEASES  
DOS HERMANOS POOL, EDDY COUNTY, NEW MEXICO

WELL TESTS MADE DURING FEBRUARY, 1968

| <u>Well</u>      | <u>Bbls. Per Day</u> |              | <u>% Water</u> |
|------------------|----------------------|--------------|----------------|
|                  | <u>Oil</u>           | <u>Water</u> |                |
| Federal #1       | 10                   | 935          | 98.9           |
| Federal #2       | 7                    | 683          | 99.0           |
| Federal #3       | 7                    | 493          | 98.6           |
| Federal #5       | 25                   | 1105         | 97.8           |
| Federal #6       | 3                    | 224          | 98.7           |
| Federal #7       | 4                    | 151          | 97.4           |
| Gulf Federal #1  | 8½                   | 1051         | 99.2           |
| Gulf Federal #2  | 11                   | 862          | 98.7           |
| Eddy St. "BD" #1 | 2½                   | 277          | 99.3           |
| Eddy St. "BD" #2 | 3                    | 647          | 99.5           |
| Total            | <u>81</u>            | <u>6428</u>  | <u>98.75%</u>  |

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Aggel Exhibit No. 6  
Case No. 5758

Exhibit #6



# OKLAHOMA DEPARTMENT OF GEOLOGY AND MINERAL RESOURCES

WATER ANALYSIS

DATE

LAB. NO.

For: W. A. and E. R. Hudson  
200 Booker Bldg.  
Artesia, New Mexico

February 22, 1968

LABORATORY LOCATION

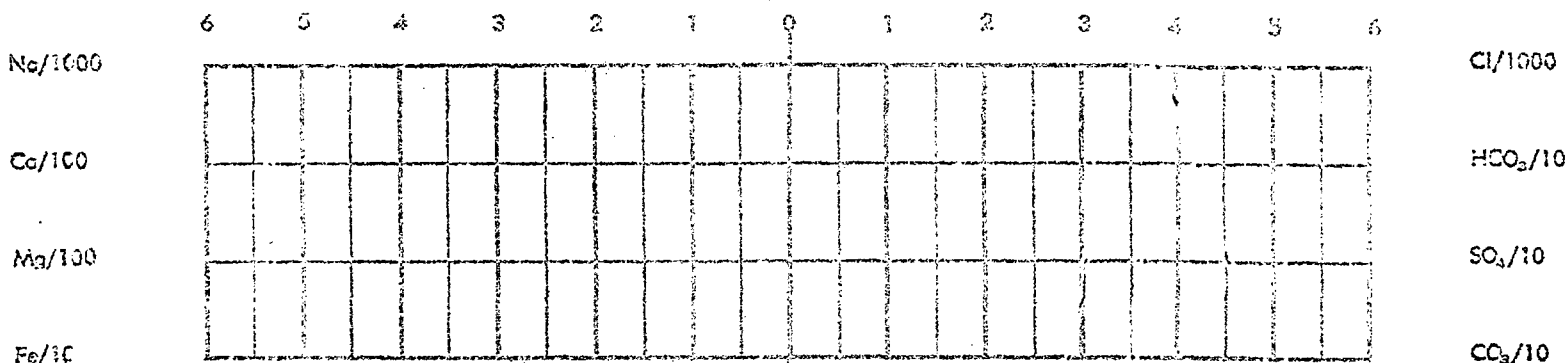
MX 20850

OK. P.C.

Midland, Texas

| WELL              |                |       | FORMATION    |                  |       |
|-------------------|----------------|-------|--------------|------------------|-------|
| ROS Hermanos      |                |       | Seven Rivers |                  |       |
| LEGAL DESCRIPTION |                |       | DEPTH        |                  |       |
| Federal Lease     |                |       |              |                  |       |
| SOURCE            | TOTAL SOLIDS   |       | P.H.         | SPECIFIC GRAVITY |       |
| Tank Battery      |                |       | 7.0          | 1.022            | 71 °F |
| CONSTITUENTS      | mg/L           | meq/L | CONSTITUENTS | mg/L             | meq/L |
| Sodium            | 11,080         | 482   | Chloride     | 18,150           | 510   |
| Calcium           | 1,200          | 60    | Bicarbonate  | 670              | 11    |
| Magnesium         | 486            | 40    | Sulfate      | 2,950            | 61    |
| Iron              | Not determined |       | Carbonate    | 0                | -     |

STIFF DIAGRAM  
(meq/L)



Remarks:

Hydrogen Sulfide - present

George W. Greer, Jr.  
Crenshaw - 2  
Tulsa Lab

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

Exhibit No. 7  
Case No. 9758

ANALYSIS BASED ON API RECOMMENDED PROCEDURE

Exhibit # 7

WATER ANALYSIS

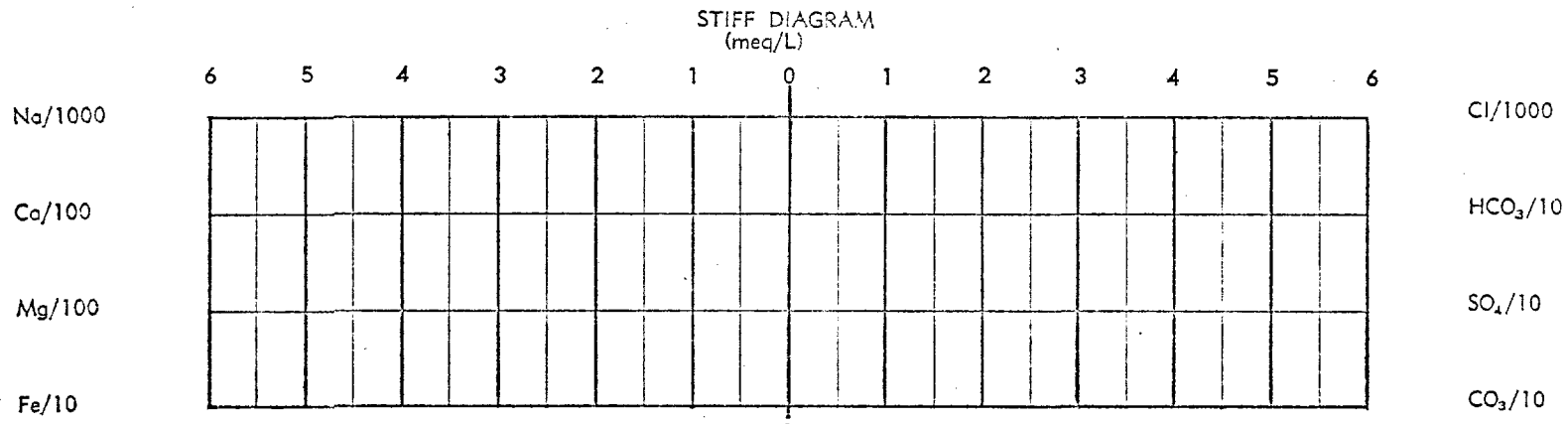
For: W.A. & E.R. Hudson  
Booker Bldg.  
Artesia, New Mexico

DATE 4-22-68  
LABORATORY LOCATION  
Midland, Texas

LAS NO. MX 20978  
S. NO.

Attn: Mr. Ralph Gray

|                                 |  |                |       |                              |                                |       |
|---------------------------------|--|----------------|-------|------------------------------|--------------------------------|-------|
| SOURCE Salt Water Disposal Lake |  | TOTAL SOLIDS   |       | POOL                         | FORMATION                      |       |
| CONSTITUENTS                    |  | mg/L           | meq/L | LEGAL DESCRIPTION Duval Mine | BHT                            | DEPTH |
| Sodium                          |  | 122,300        | 5,334 | Fr. 7.3                      | SPECIFIC GRAVITY 1.235 @ 72 °F |       |
| Calcium                         |  | 600            | 30    | Chloride                     | 197,000                        | 5,540 |
| Magnesium                       |  | 4,250          | 350   | Bicarbonate                  | 207                            | 3     |
| Iron                            |  | Not Determined |       | Sulfate                      | 8,200                          | 171   |
|                                 |  |                |       | Carbonate                    | 0                              |       |



Remarks:

George N. Greer, Jr.  
cc: Artesia Station  
Crenshaw - 2  
Tulsa Lab

APR 24 1968  
LABORATORY  
3758

WILLIAM A. & EDWARD R. HUDSON LEASES

DOS HERMANOS POOL, EDDY COUNTY, NEW MEXICO

ESTIMATED REALIZATION SCHEDULE - CONTINUATION OF PRESENT OPERATIONS

| YEAR | ESTIMATED<br>GROSS OIL | HUDSON<br>GROSS<br>INCOME | HUDSON EXPENSE    |          |                               | HUDSON<br>NET PROFIT |
|------|------------------------|---------------------------|-------------------|----------|-------------------------------|----------------------|
|      |                        |                           | DIRECT<br>CHARGES | TAXES    | OPERATING &<br>ADMINISTRATION |                      |
| 1968 | 25,300                 | \$51,236                  | \$26,770          | \$3,440  | \$8,855                       | \$ 12,171            |
| 1969 | 23,300                 | 47,000                    | 26,770            | 3,165    | 8,855                         | 8,210                |
| 1970 | 21,400                 | 43,000                    | 26,770            | 2,910    | 8,855                         | 4,465                |
| 1971 | 19,700                 | 39,000                    | 26,770            | 2,680    | 8,855                         | 695                  |
| 1972 | 18,100                 | 36,000                    | 26,770            | 2,460    | 8,855                         | -( 2,085 )           |
|      | 107,800                | \$216,236                 | \$133,850         | \$14,655 | \$44,275                      | \$ 23,456            |
|      |                        |                           |                   |          | \$192,780                     |                      |

Note: Expense based upon actual 1967 cost. No allowance is being made for equipment replacement for the remaining life.

Exhibit \* 11

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
*Aggel* Exhibit No. *11*  
Case No. *3758*



# Federal Abstract Company

STATE • FEDERAL • INDIAN LANDS

POST OFFICE BOX 2288 - PHONE 982-5537 - SANTA FE, NEW MEXICO 87501

APRIL 26, 1968

WILLIAM A. & EDWARD HUDSON  
C/O KELLAHIN & FOX  
54½ E. SAN FRANCISCO  
SANTA FE, NEW MEXICO

ATTN: MR. JASON KELLAHIN

DEAR SIR:

THIS IS TO CERTIFY THAT THE RECORDS IN THE UNITED STATES LAND OFFICE AT SANTA FE, NEW MEXICO, REFLECT THAT ALL OF SECTION 27, ALL OF SECTION 34 AND ALL OF SECTION 35, T. 20 S. - R. 30 E., NMPM, EDDY COUNTY, NEW MEXICO, IS FEDERAL LAND.

TRUSTING THAT THIS IS THE INFORMATION YOU DESIRE, WE REMAIN

VERY TRULY YOURS,

FEDERAL ABSTRACT COMPANY

*Hoover H. Wright*  
HOOVER H. WRIGHT, VICE-PRESIDENT

HHW:MMG

|                             |                       |
|-----------------------------|-----------------------|
| BEFORE THE                  |                       |
| OIL CONSERVATION COMMISSION |                       |
| Santa Fe, New Mexico        |                       |
| <i>Appl</i>                 | Exhibit No. <u>13</u> |
| Case No.                    | <u>3758</u>           |

Duval Potash Co. salt  
water disposal pond - looking  
eastward toward plant.  
Picture taken May 9, 1968.

Exhibit \*10



Case No.

3758

Large  
Exhibits