

### EXHIBIT 3

#### RESERVOIR DATA

##### SOUTH KNOWLES FIELD LEA COUNTY, NEW MEXICO

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| Number of Wells Cored and Analyzed                                   | 4     |
| Total Feet of Permeable Productive Formation Analyzed                | 107   |
| Permeability, 0 to 445 millidarcys, average                          | 19.9  |
| Porosity, 0.7 to 11.3 percent of bulk volume, average                | 4.1   |
| Average Residual Oil Saturation, percent of pore space               | 8.1   |
| Average Water Saturation, percent of pore space                      | 50.9  |
| Productive Thickness, percent of gross section (1)                   | 25    |
| Original Measured Reservoir Pressure, psig @ 8450<br>feet subsea (2) | 4902  |
| Saturation Pressure, psig                                            | 1155  |
| Solution Gas-Oil Ratio, cubic feet per barrel residual<br>oil        | 570   |
| Reservoir Oil Viscosity, centipoises @ 182°F, 4900 psig              | 0.48  |
| Formation Volume Factor, barrels reservoir per barrels<br>residual   | 1.357 |
| Estimated Connate Water Saturation, percent of pore<br>space         | 21    |

(1) Section having over 1 millidarcy permeability, from analysis  
of entire section in Wilhoit #1.

(2) 36 hour shut in - no change in last 8 hours.

EXHIBIT 7

PRODUCTION HISTORY

SOUTH KNOWLES FIELD  
LEA COUNTY, NEW MEXICO

| <u>Date</u> | <u>Number of Wells</u> | <u>Oil Production, Barrels</u><br><u>Daily</u> | <u>Cumulative</u> |
|-------------|------------------------|------------------------------------------------|-------------------|
| 1954        |                        |                                                |                   |
| May         | 1                      | 90                                             | 2,798             |
| June        | 1                      | 286                                            | 11,391            |
| July        | 1                      | 260                                            | 19,447            |
| August      | 1                      | 270                                            | 27,829            |
| September   | 3                      | 622 <sup>007</sup>                             | 46,489            |
| October     | 3                      | 820 <sup>273</sup>                             | 71,901            |
| November    | 4                      | 904 <sup>226</sup>                             | 99,022            |
| December    | 5                      | 777 <sup>155</sup>                             | 123,102           |

# EXHIBIT 2

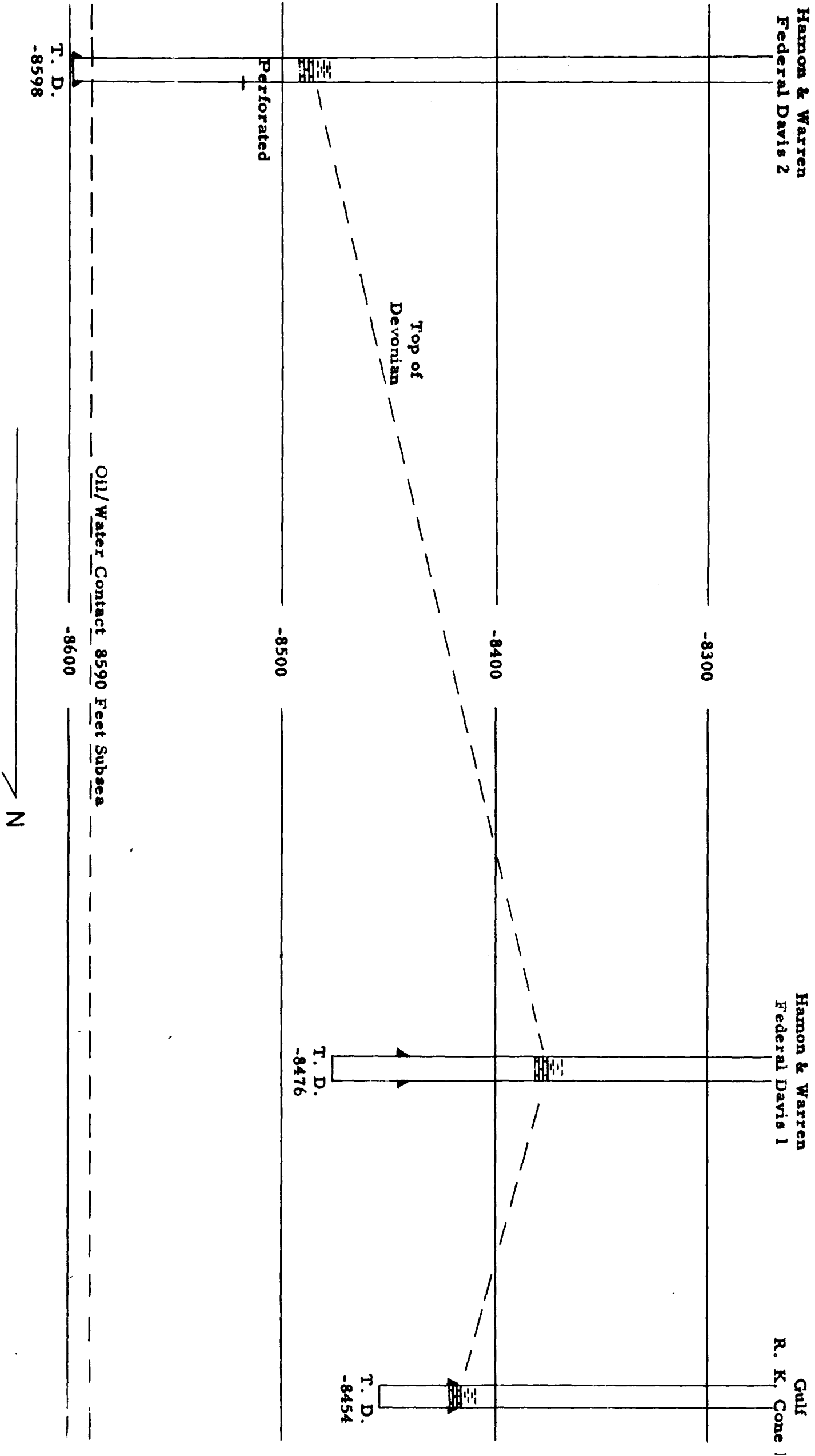
## WELL DATA

### SOUTH KNOWLES FIELD LEA COUNTY, NEW MEXICO

| Operator, Lease, Well Number                                | Completion<br>Date | Total Depth<br>(Schlumberger) | Completion<br>Depth (Subsea) |
|-------------------------------------------------------------|--------------------|-------------------------------|------------------------------|
|                                                             |                    |                               |                              |
| Jake L. Hamon and Warren Petroleum Corp. - Federal Davis #1 | 5-54               | 12, 174                       | 8445-8476                    |
| Jake L. Hamon and Warren Petroleum Corp. - Federal Davis #2 | 1-55               | 12, 290                       | 8486-8518                    |
| Jake L. Hamon and Warren Petroleum Corp. - D. Wilhoit #1    | 9-54               | 12, 554                       | 8479-8509                    |
| Jake L. Hamon and Warren Petroleum Corp. - F. Holloway #1   | 9-54               | 12, 213                       | 8458-8502                    |
| Jake L. Hamon and Warren Petroleum Corp. - J. G. Cox #1     | 11-54              | 12, 247                       | 8489-8542                    |
| Jake L. Hamon and Warren Petroleum Corp. - R. K. Cone #1    | 12-54              | 12, 238                       | 8497-8517                    |
| Gulf Oil Corp. - R. K. Cone #1                              | 12-54              | 12, 151                       | 8422-8454                    |

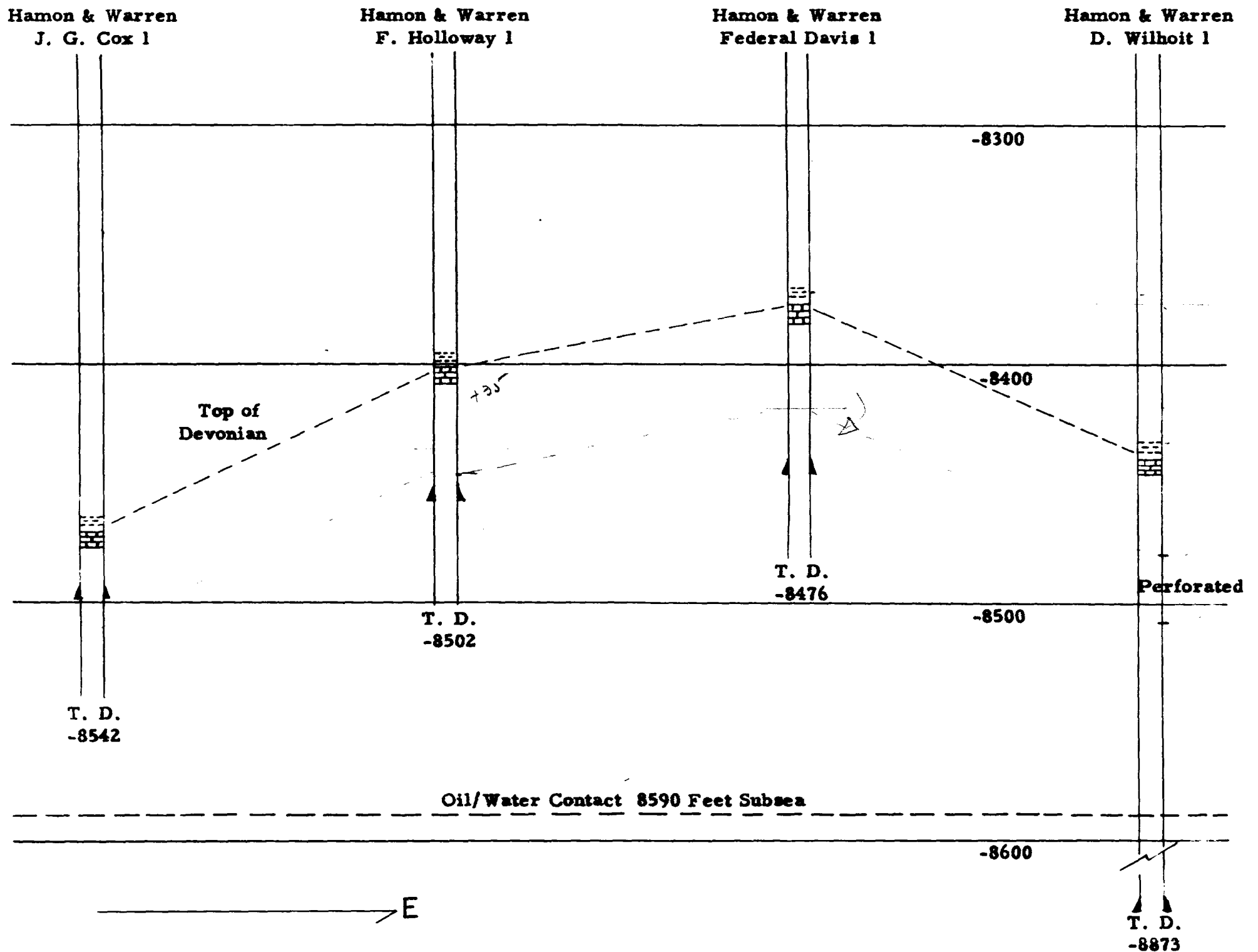
EXHIBIT 6

NORTH-SOUTH CROSS SECTION



# EXHIBIT 5

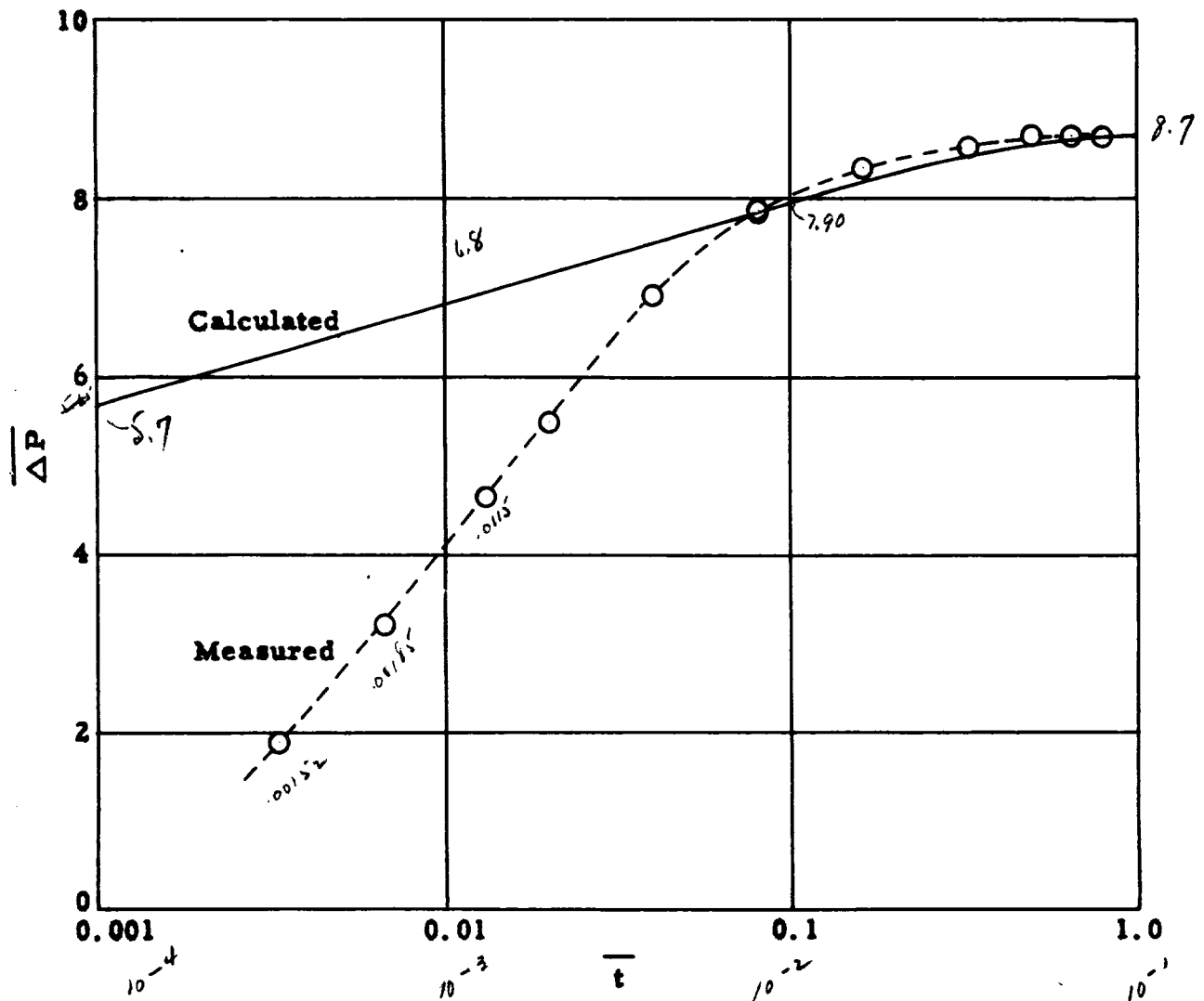
## EAST-WEST CROSS SECTION



# EXHIBIT 9

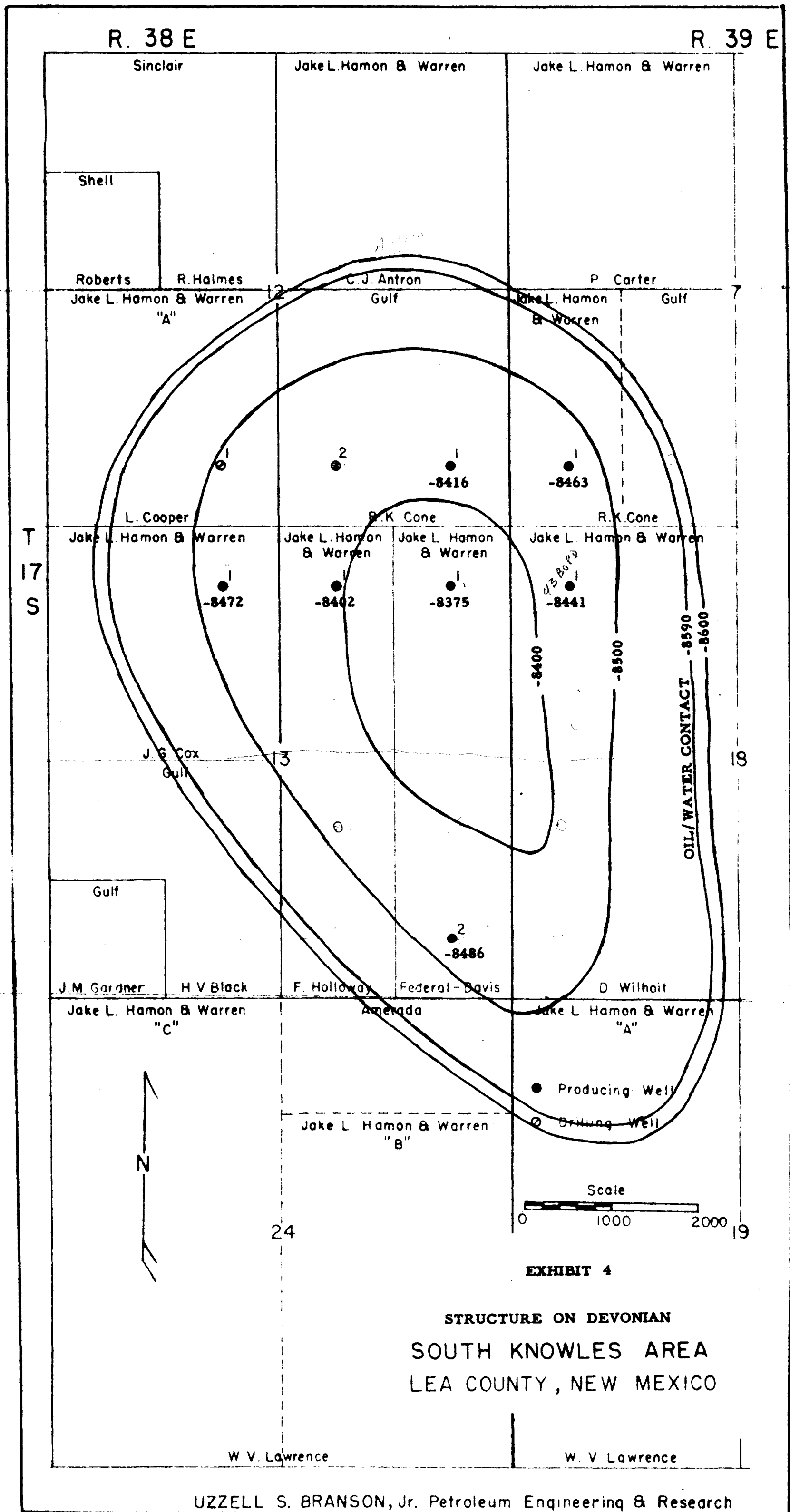
## PRESSURE BUILD UP

FEDERAL DAVIS #1  
SOUTH KNOWLES FIELD  
LEA COUNTY, NEW MEXICO



Note: Calculated curve Miller, Dyes  
& Hutchinson, Transactions AIME  
1950, p. 92.

UZZELL S. BRANSON, JR.  
Petroleum Engineering and Research  
DALLAS, TEXAS



R. 38 E 0:30

R 39 E

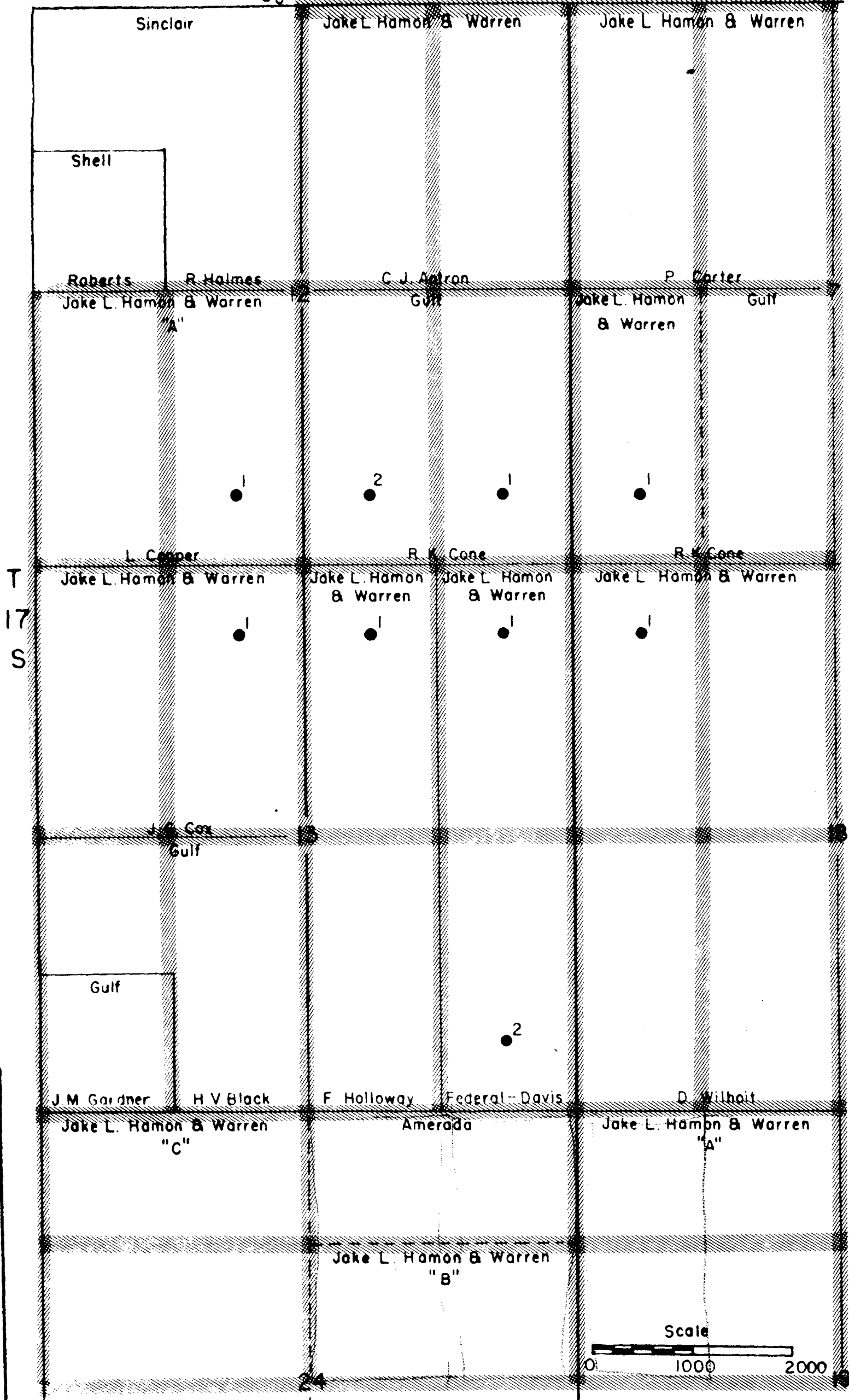


FIGURE 3

## 80 ACRE PATTERN

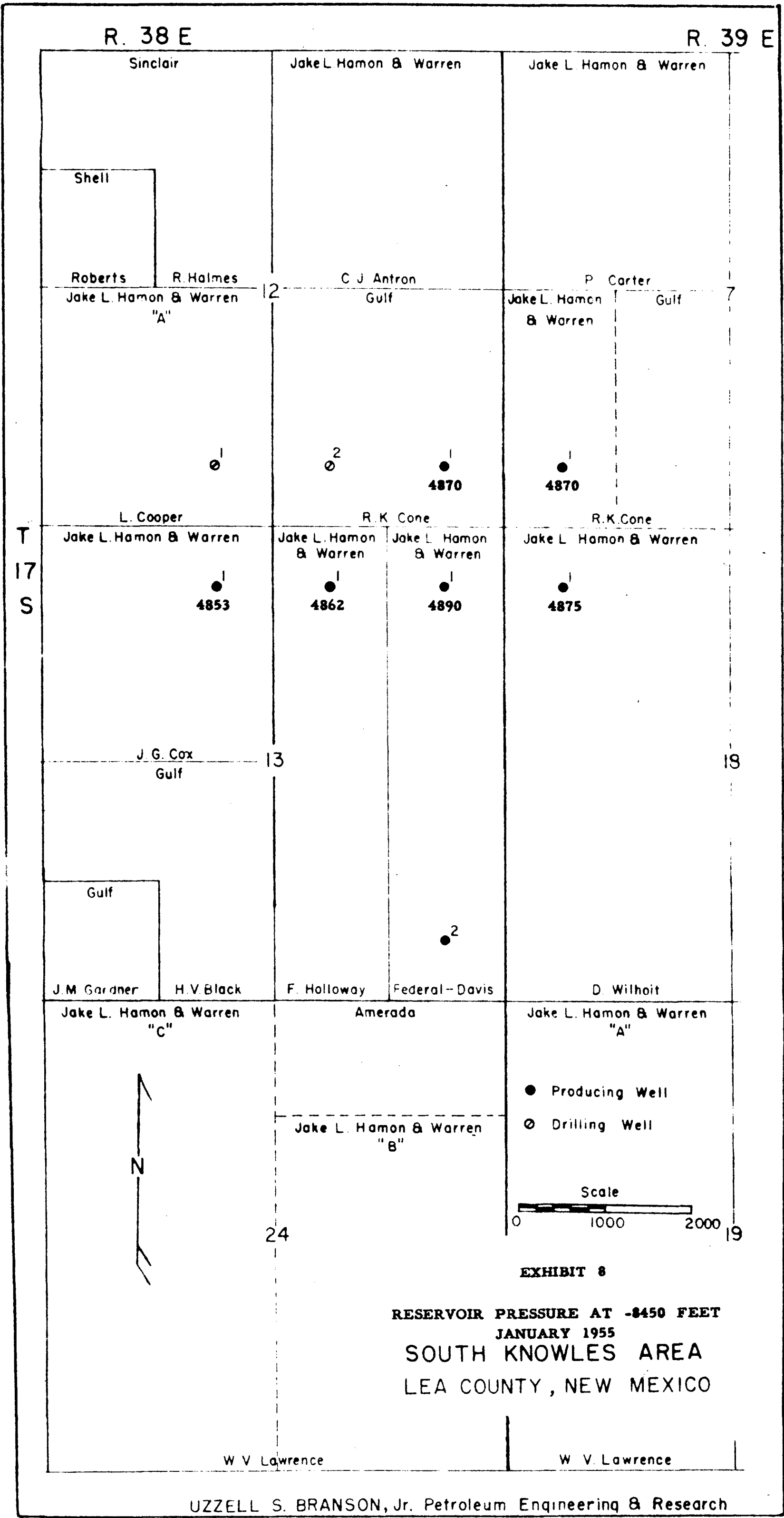
SOUTH KNOWLES AREA  
LEA COUNTY, NEW MEXICO

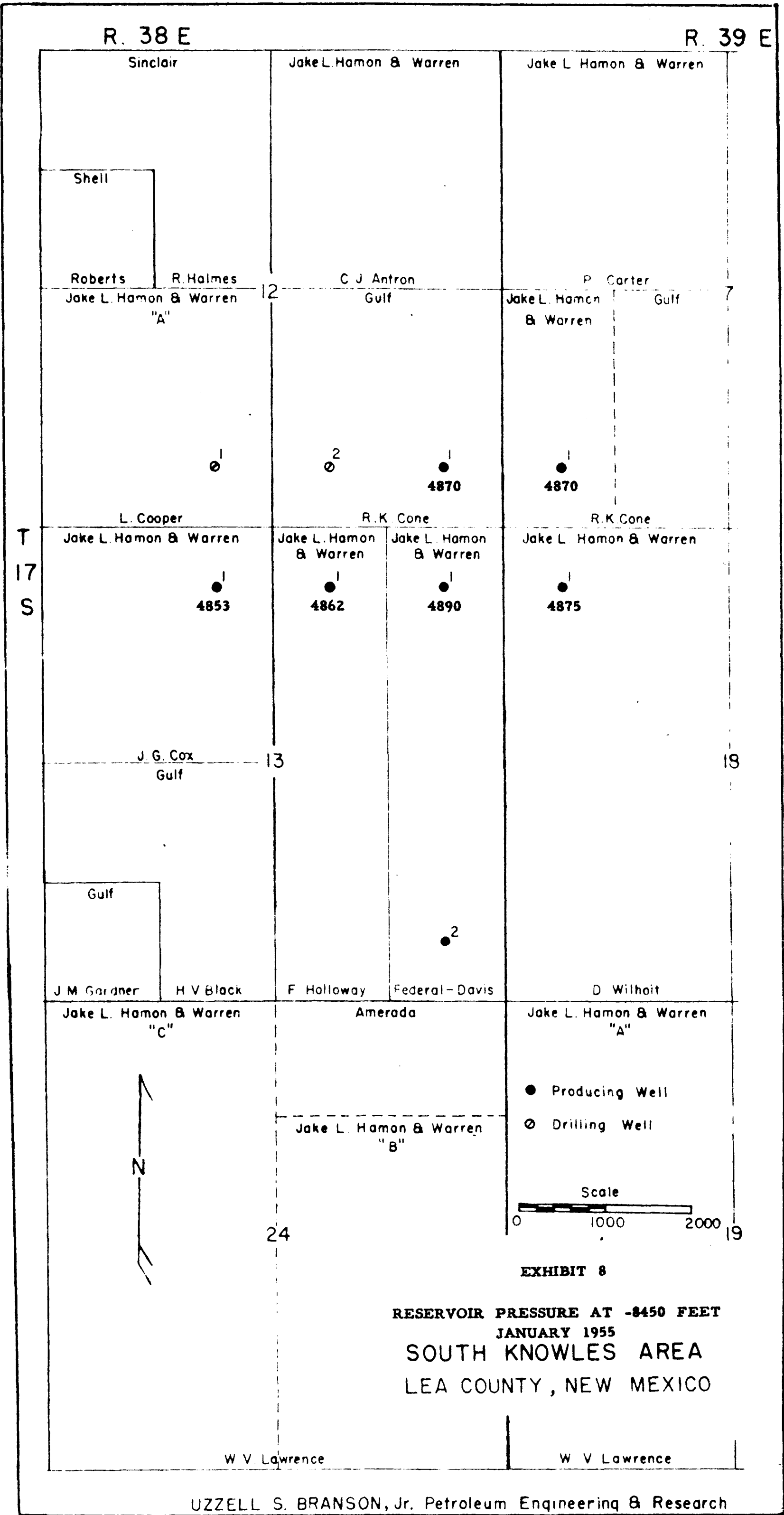
BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
*Harvey Warren* EXHIBIT No. *1*  
CASE *819*

W. V. Lawrence

W. V. Lawrence

UZZELL S. BRANSON, Jr. Petroleum Engineering & Research





|                                              |                                                  |                                                  |                                                  |                                                  |                                            |                                      |
|----------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------|--------------------------------------|
|                                              | 2                                                |                                                  |                                                  |                                                  | 6                                          |                                      |
|                                              | Sinclair<br>8-2-58                               |                                                  |                                                  |                                                  | Gulf                                       | Shell<br>6-29-58                     |
| Alves & Howell                               | Alves & Howell<br>Sinclair<br>8-2-58             | F.J. Danglade<br>Sinclair                        | J.S. Eaves                                       | Powhatan Carter                                  | Rose Eaves<br>Gulf                         | H.E. Barron<br>Shell<br>5-16-58      |
|                                              |                                                  | Shell<br>5-6-58                                  | JLH-1/2<br>Warren-1/2<br>10-30-55<br>#1457       | JLH-1/2<br>Warren-1/2<br>4-10-55<br>#1410        | Rose Eaves                                 |                                      |
| Alves & Howell                               | Alves & Howell                                   | Roberts R. Halmes                                | C.J. Antron                                      | P. Carter                                        | H.E. Barron                                | H.E. Barron                          |
|                                              | JLH-1/2<br>Warren-1/2<br>4-18-56<br>#1453<br>"B" | JLH-1/2<br>Warren-1/2<br>4-18-56<br>#1452<br>"A" | Gulf<br>11-6-54                                  | JLH-1/2<br>Warren-1/2<br>11-6-54<br>#1413        | JLH-1/2<br>Warren-1/2<br>11-15-55<br>#1451 | Stanolind<br>1-1-55                  |
| Howell                                       | L. Cooper<br>Sinclair<br>8-2-58                  | L. Cooper                                        | R.K. Cone                                        | R.K. Cone                                        | B.A. Cogle                                 | U.S.A.                               |
|                                              |                                                  | - 8530                                           |                                                  |                                                  |                                            | Stanolind<br>1-1-55                  |
|                                              |                                                  | - 8542                                           |                                                  |                                                  |                                            | U.S.A.                               |
|                                              | Alves & Howell<br>Gulf<br>4-27-56                | J.G. Cox<br>Gulf<br>4-27-56                      | JLH-1/2<br>Warren-1/2<br>#1253                   | JLH-1/2<br>Warren-1/2<br>#1425                   | 1st. Natl. Bk.<br>Independence, Mo.        | R.C. Eaves<br>E.M. Byers<br>12-31-55 |
|                                              | H.V. Black                                       | J.M. Gardner                                     | Fanny Holloway                                   | David Wilhoit                                    | Mrs. C.G. Witt                             | E.M. Byers                           |
|                                              | JLH-1/2<br>Warren-1/2<br>5-26-59<br>#1447<br>"D" | Gulf<br>4-27-55                                  | Amerada<br>-55                                   | JLH-1/2<br>Warren-1/2<br>11-7-55<br>#1438<br>"A" | JLH-1/2<br>Warren-1/2<br>11-15-55<br>#1399 | Gulf<br>12-5-55                      |
|                                              | W.V. Lawrence                                    | JLH-1/2<br>Warren-1/2<br>11-7-55<br>#1440<br>"C" |                                                  | JLH-1/2<br>Warren-1/2<br>11-14-55<br>#1436       | JLH-1/2<br>Warren-1/2<br>10-17-55<br>#1450 |                                      |
|                                              |                                                  |                                                  |                                                  |                                                  |                                            |                                      |
|                                              | JLH-1/2<br>Warren-1/2<br>10-17-55<br>#1448       |                                                  | JLH-1/2<br>Warren-1/2<br>11-7-55<br>#1439<br>"B" |                                                  |                                            |                                      |
| Wm. H. Coleman<br>Pacific-Western<br>4-18-59 | W.V. Lawrence                                    | W.V. Lawrence                                    | W.V. Lawrence                                    | Jno. M. Hobbs                                    | H.A. Cox                                   |                                      |
|                                              |                                                  |                                                  |                                                  | B. Hardin                                        |                                            |                                      |
| 26                                           |                                                  | 25                                               |                                                  | 30                                               |                                            |                                      |