

U. S. LAND OFFICE

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Danisco Inc. Address Box 1169 Midland, Texas  
Lessor or Tract Cotton Grove Field Field Paducah-Delaware State New Mexico  
Well No. 10 Sec. 20 T. 25N R. 30E Meridian N7W County Lea  
Location 330 ft. N. of 0 Line and 330 ft. W. of 1 Line of Sec 20 Elevation 3100.9' 17  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date April 10, 1961 Signed [Signature] Title Contractor

The summary on this page is for the condition of the well at above date.

Commenced drilling March 25, 1961 Finished drilling April 3, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1404' to 1409' No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 1400' to 1700' No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from None to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

| Size casing                                                          | Weight per foot | Threads per inch | Make        | Amount       | Kind of shoe   | Cut and pulled from   | Perforated |     | Purpose           |
|----------------------------------------------------------------------|-----------------|------------------|-------------|--------------|----------------|-----------------------|------------|-----|-------------------|
|                                                                      |                 |                  |             |              |                |                       | From—      | To— |                   |
| <u>2-1/2"</u>                                                        | <u>11.2</u>     | <u>8</u>         | <u>AMCO</u> | <u>1000'</u> | <u>Regular</u> | <u>1404' to 1409'</u> |            |     | <u>Production</u> |
| <u>2-1/2"</u>                                                        | <u>11.2</u>     | <u>8</u>         | <u>AMCO</u> | <u>1000'</u> | <u>Regular</u> | <u>1409' to 1700'</u> |            |     | <u>Production</u> |
| <u>2-1/2"</u>                                                        | <u>11.2</u>     | <u>8</u>         | <u>AMCO</u> | <u>1000'</u> | <u>Regular</u> | <u>1700' to 1705'</u> |            |     | <u>Production</u> |
| Casing perforations: <u>(1404' to 1409')</u> <u>(1409' to 1700')</u> |                 |                  |             |              |                |                       |            |     |                   |

MUDDING AND CEMENTING RECORD

| Size casing   | Where set      | Number sacks of cement | Method used  | Mud gravity  | Amount of mud used |
|---------------|----------------|------------------------|--------------|--------------|--------------------|
| <u>2-1/2"</u> | <u>33-00</u>   | <u>35</u>              | <u>RF</u>    | <u>15.6</u>  | <u>None Pull</u>   |
| <u>1-1/2"</u> | <u>1700-07</u> | <u>150</u>             | <u>RF</u>    | <u>14.7</u>  | <u>None Pull</u>   |
| <u>2-1/2"</u> | <u>1404-70</u> | <u>None</u>            | <u>Swing</u> | <u>Water</u> | <u>None Pull</u>   |

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

| Size                                                                | Shell used | Explosive used | Quantity   | Date            | Depth shot   | Depth cleaned out |
|---------------------------------------------------------------------|------------|----------------|------------|-----------------|--------------|-------------------|
| <u>2-1/2"</u>                                                       | <u>200</u> | <u>Black</u>   | <u>100</u> | <u>April 10</u> | <u>1404'</u> | <u>1404'</u>      |
| Finished treatment at <u>2200'</u> — Finished tubing w/20 hole oil. |            |                |            |                 |              |                   |

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to 1705' feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

April 10, 1961 Put to producing April 3, 1961

The production for the first 24 hours was 59.00 barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % emulsion; 20 % water; and 10 % sediment. Gravity, °Bé. 12.7 at 60 deg.

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

EMPLOYEES

J. G. Martin, Driller Ray Williams, Driller  
G. A. Gross, Driller \_\_\_\_\_, Driller

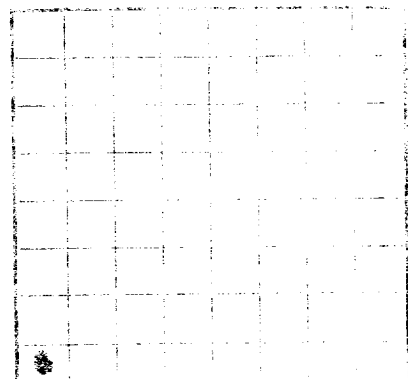
FORMATION RECORD

| FROM—                        | TO—         | TOTAL FEET   | FORMATION                             |
|------------------------------|-------------|--------------|---------------------------------------|
| <u>0</u>                     | <u>750</u>  | <u>750</u>   | <u>Shale &amp; Sand</u>               |
| <u>750</u>                   | <u>1006</u> | <u>256</u>   | <u>Anhydrite &amp; Dolomite</u>       |
| <u>1006</u>                  | <u>1112</u> | <u>106</u>   | <u>Shale</u>                          |
| <u>1112</u>                  | <u>1306</u> | <u>194</u>   | <u>Anhydrite &amp; Salt</u>           |
| <u>1306</u>                  | <u>1550</u> | <u>244</u>   | <u>Anhydrite</u>                      |
| <u>1550</u>                  | <u>1585</u> | <u>35</u>    | <u>Sand &amp; Black Shale</u>         |
| <u>1585</u>                  | <u>1660</u> | <u>75</u>    | <u>Sand</u>                           |
| <u>1660</u>                  | <u>1705</u> | <u>45</u>    | <u>Sand &amp; Shale - Total Depth</u> |
|                              | <u>1729</u> | <u>169</u>   | <u>Flag Rock Total Depth</u>          |
| GEOLOGICAL TOPS              |             |              |                                       |
| <u>Top Harder Anhydrite</u>  |             | <u>750'</u>  |                                       |
| <u>Top Harder Dolomite</u>   |             | <u>816'</u>  |                                       |
| <u>Base Harder Dolomite</u>  |             | <u>980'</u>  |                                       |
| <u>Top Salt</u>              |             | <u>1110'</u> |                                       |
| <u>Base Salt</u>             |             | <u>1306'</u> |                                       |
| <u>Top Delaware Lime</u>     |             | <u>1550'</u> |                                       |
| <u>Top Delaware Sand</u>     |             | <u>1585'</u> |                                       |
| <u>Total Depth</u>           |             | <u>1705'</u> |                                       |
| <u>Flag Rock Total Depth</u> |             | <u>1729'</u> |                                       |

ISSUED OR PERMIT TO PROSPECT  
MINERAL INTEREST  
LAND OFFICE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

TOG OF OF OR GAS WEST



The information given herewith is a complete and correct record of the call and all work done thereon.  
It can be determined from all available records.

The summary on this page is for the condition of the well as above data.  
 Town named on this page is \_\_\_\_\_  
 County named on this page is \_\_\_\_\_  
 State named on this page is \_\_\_\_\_  
 Date of drilling \_\_\_\_\_  
 Date of completion \_\_\_\_\_  
 Date of this report \_\_\_\_\_  
 Name of driller \_\_\_\_\_  
 Name of engineer \_\_\_\_\_  
 Name of geologist \_\_\_\_\_  
 Name of geophysicist \_\_\_\_\_  
 Name of hydrologist \_\_\_\_\_  
 Name of meteorologist \_\_\_\_\_  
 Name of biologist \_\_\_\_\_  
 Name of chemist \_\_\_\_\_  
 Name of physicist \_\_\_\_\_  
 Name of astronomer \_\_\_\_\_  
 Name of geographer \_\_\_\_\_  
 Name of geologist \_\_\_\_\_  
 Name of geophysicist \_\_\_\_\_  
 Name of hydrologist \_\_\_\_\_  
 Name of meteorologist \_\_\_\_\_  
 Name of biologist \_\_\_\_\_  
 Name of chemist \_\_\_\_\_  
 Name of physicist \_\_\_\_\_  
 Name of astronomer \_\_\_\_\_  
 Name of geographer \_\_\_\_\_

NOIL OR GAS SALES OR LOANS

(Personnel and Staff)

| to | from | to | from | to | from |
|----|------|----|------|----|------|
| to | from | to | from | to | from |
| to | from | to | from | to | from |
| to | from | to | from | to | from |

SECRET URGENT TCMALCO 0100

to No. 3 from No. 2

to No. 4 from No. 3

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It is of the greatest importance to have a complete inventory of the well. Please state in detail the date of recording, together with the reason for the well and its results. The following are suggested questions: Has the well been dynamited, give date, size, position, and number. If flags or bridges were put in to test for water, state date and material used, position, and results of pumping or draining tests. If flags or bridges were put in to test for water, state date and material used, position, and results of pumping or draining tests. If flags or bridges were put in to test for water, state date and material used, position, and results of pumping or draining tests.

## HISTORY OF OIL OR GAS WELL

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RECORDS CONTAINED HEREIN ARE UNCLASSIFIED

| Part. no. of animal | giving birth | last birth | interval between births | no. of litters | cost, rub. |
|---------------------|--------------|------------|-------------------------|----------------|------------|
| 1947-1948           | 1947-1948    | 1947-1948  | 1947-1948               | 1947-1948      | 1947-1948  |
| 1948-1949           | 1948-1949    | 1948-1949  | 1948-1949               | 1948-1949      | 1948-1949  |
| 1949-1950           | 1949-1950    | 1949-1950  | 1949-1950               | 1949-1950      | 1949-1950  |

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|          |          |          |
|----------|----------|----------|
| 100 days | 100 days | 100 days |
|----------|----------|----------|

GROUP 241000

| Page | Date     | Location | Remarks |
|------|----------|----------|---------|
| 1    | 10/10/50 | 1000 ft  | 1000 ft |
| 2    | 10/10/50 | 1000 ft  | 1000 ft |
| 3    | 10/10/50 | 1000 ft  | 1000 ft |
| 4    | 10/10/50 | 1000 ft  | 1000 ft |
| 5    | 10/10/50 | 1000 ft  | 1000 ft |
| 6    | 10/10/50 | 1000 ft  | 1000 ft |
| 7    | 10/10/50 | 1000 ft  | 1000 ft |
| 8    | 10/10/50 | 1000 ft  | 1000 ft |
| 9    | 10/10/50 | 1000 ft  | 1000 ft |
| 10   | 10/10/50 | 1000 ft  | 1000 ft |
| 11   | 10/10/50 | 1000 ft  | 1000 ft |
| 12   | 10/10/50 | 1000 ft  | 1000 ft |
| 13   | 10/10/50 | 1000 ft  | 1000 ft |
| 14   | 10/10/50 | 1000 ft  | 1000 ft |
| 15   | 10/10/50 | 1000 ft  | 1000 ft |
| 16   | 10/10/50 | 1000 ft  | 1000 ft |
| 17   | 10/10/50 | 1000 ft  | 1000 ft |
| 18   | 10/10/50 | 1000 ft  | 1000 ft |
| 19   | 10/10/50 | 1000 ft  | 1000 ft |
| 20   | 10/10/50 | 1000 ft  | 1000 ft |
| 21   | 10/10/50 | 1000 ft  | 1000 ft |
| 22   | 10/10/50 | 1000 ft  | 1000 ft |
| 23   | 10/10/50 | 1000 ft  | 1000 ft |
| 24   | 10/10/50 | 1000 ft  | 1000 ft |
| 25   | 10/10/50 | 1000 ft  | 1000 ft |
| 26   | 10/10/50 | 1000 ft  | 1000 ft |
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| 44   | 10/10/50 | 1000 ft  | 1000 ft |
| 45   | 10/10/50 | 1000 ft  | 1000 ft |
| 46   | 10/10/50 | 1000 ft  | 1000 ft |
| 47   | 10/10/50 | 1000 ft  | 1000 ft |
| 48   | 10/10/50 | 1000 ft  | 1000 ft |
| 49   | 10/10/50 | 1000 ft  | 1000 ft |
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| 53   | 10/10/50 | 1000 ft  | 1000 ft |
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| 62   | 10/10/50 | 1000 ft  | 1000 ft |
| 63   | 10/10/50 | 1000 ft  | 1000 ft |
| 64   | 10/10/50 | 1000 ft  | 1000 ft |
| 65   | 10/10/50 | 1000 ft  | 1000 ft |
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| 70   | 10/10/50 | 1000 ft  | 1000 ft |
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| 75   | 10/10/50 | 1000 ft  | 1000 ft |
| 76   | 10/10/50 | 1000 ft  | 1000 ft |
| 77   | 10/10/50 | 1000 ft  | 1000 ft |
| 78   | 10/10/50 | 1000 ft  | 1000 ft |
| 79   | 10/10/50 | 1000 ft  | 1000 ft |
| 80   | 10/10/50 | 1000 ft  | 1000 ft |

## 576

Gravely, 1989

EMPLOYERS

[illegible]

FORMER RECORD

| DESCRIPTION | TOTAL FEET | TO   | FROM |
|-------------|------------|------|------|
| 1. 1000     | 1000       | 1000 | 1000 |
| 2. 1000     | 1000       | 1000 | 1000 |
| 3. 1000     | 1000       | 1000 | 1000 |
| 4. 1000     | 1000       | 1000 | 1000 |
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