

2nd

**DONNA JEAN BARNHART**  
State of Kansas  
My Appt. Exp. \_\_\_\_\_

Operator Name ..... Town Oil Co. ..... Lease Name..... Brown ..... Well #..... 22  
 Sec..... 19 ..... Twp..... 16 ..... Rge..... 21 ..... ☒ East ☐ West ..... County..... Franklin .....

## WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rate if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken

☐ Yes☒ No

Samples Sent to Geological Survey

☐ Yes☒ No

Cores Taken

☒ Yes☐ No

Formation Description

☐ Log☐ Sample

Name

Top

Bottom

See attached copy of log

CASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String  | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs/Ft. | Setting Depth | Type of Cement    | #Sacks Used | Type and Percent Additives |
|--------------------|-------------------|---------------------------|----------------|---------------|-------------------|-------------|----------------------------|
| Surface Completion | 9 5 1/8           | 6 7/8 2                   |                | 20 660        | Portland Portland | 3 75        | 60/40 noz                  |
|                    |                   |                           |                |               |                   |             |                            |

## PERFORATION RECORD

## Acid, Fracture, Shot, Cement Squeeze Record

| Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth |
|----------------|---------------------------------------------|------------------------------------|-------|
| N/A            |                                             | N/A                                |       |
|                |                                             |                                    |       |
|                |                                             |                                    |       |

| TUBING RECORD | Size | Set At | Packer at | Liner Run | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|---------------|------|--------|-----------|-----------|----------------------------------------------------------|
|---------------|------|--------|-----------|-----------|----------------------------------------------------------|

| Date of First Production | Producing Method                                                                                                                                  |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| N/A                      | <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain)..... |

|                                   | Oil  | Gas | Water | Gas-Oil Ratio | Gravity |
|-----------------------------------|------|-----|-------|---------------|---------|
| Estimated Production Per 24 Hours | Bbls | MCF | Bbls  | CFPB          |         |

## METHOD OF COMPLETION

## Production Interval

Disposition of gas: ☐ Vented  
☐ Sold  
☐ Used on Lease

☐ Open Hole ☐ Perforation  
☐ Other (Specify) .....

☐ Dually Completed  
☐ Commingled

# TOWN OIL COMPANY

Route 4  
Paola, Kansas 66071

"Drilling and Production"

913-294-2125

19-16-21E

Well #22  
Farm: Brown  
Franklin County, KS.  
Lease Owner: Town Oil Co.

## WELL LOG

| Thickness<br>of Strata | Formation      | Total<br>Depth |
|------------------------|----------------|----------------|
| 0-14                   | Soil & clay    | 14             |
| 18                     | Lime           | 32             |
| 7                      | Shale          | 39             |
| 11                     | Lime           | 50             |
| 4                      | Shale          | 54             |
| 18                     | Lime           | 72             |
| 9                      | Shale          | 81             |
| 1                      | Lime           | 82             |
| 2                      | Rec bed        | 84             |
| 26                     | Shale          | 110            |
| 24                     | Lime           | 134            |
| 6                      | Shale          | 140            |
| 10                     | Sand           | 150            |
| 55                     | Shale          | 205            |
| 22                     | Lime           | 227            |
| 7                      | Shale          | 234            |
| 7                      | Sand           | 241            |
| 12                     | Shale          | 253            |
| 6                      | Lime           | 259            |
| 13                     | Shale          | 272            |
| 3                      | Lime           | 275            |
| 9                      | Sand           | 284            |
| 9                      | Lime           | 293            |
| 8                      | Shale          | 301            |
| 3                      | Lime           | 304            |
| 13                     | Shale          | 317            |
| 23                     | Lime           | 340            |
| 8                      | Shale & slate  | 348            |
| 23                     | Lime           | 371            |
| 3                      | Shale & slate  | 374            |
| 4                      | Lime           | 378            |
| 3                      | Shale          | 381            |
| 7                      | Lime           | 388            |
| 3                      | Shale          | 391            |
| 4                      | Lime shells    | 395            |
| 5                      | Sand           | 400            |
| 130                    | Shale          | 530            |
| 15                     | Shale & shells | 545            |
| 10                     | Lime           | 555            |
| 11                     | Shale          | 566            |
| 4                      | Lime           | 570            |
| 4                      | Sandy shale    | 574            |
| 3                      | Sand           | 577            |
| 10                     | Shale & slate  | 587            |
| 7                      | Lime           | 594            |

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CONSERVATION DIVISION  
Wichita, Kansas

KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

Hertha

19-16-21E

Well #22  
 Farm: Brown  
 Franklin County, KS.  
 Lease Owner: Town Oil Co.

| Thickness<br>of Strata | WELL LOG (cont'd) |               | Total<br>Depth |
|------------------------|-------------------|---------------|----------------|
|                        | Formation         |               |                |
| 13                     |                   | Shale & slate | 607            |
| 3                      |                   | Lime          | 610            |
| 9                      |                   | Shale & slate | 619            |
| 4                      |                   | Lime shells   | 623            |
| 4                      |                   | Lime          | 627            |
| 5                      |                   | Shale         | 632            |
| 2                      |                   | Lime          | 634            |
| 48                     |                   | Shale         | 642            |
| 4                      |                   | SAndy lime    | 646            |
| 4                      |                   | Sandy shale   | 650            |
| 1.5                    |                   | Sand          | 651.5          |
| .5                     |                   | Sand          | 652            |
| 1.5                    |                   | SAndy lime    | 653.5          |
| 1.5                    |                   | Sand          | 655            |
| 9                      |                   | Sand          | 664            |
| 6                      |                   | Sand          | 670            |
| 26                     |                   | Sandy shale   | 696            |
| 1                      |                   | Lime          | 697            |
| 8                      |                   | Shale         | 705            |
| 3                      |                   | Slate         | 708            |
| 12                     |                   | Sandy shale   | 720 TD         |

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