

Sec. 27. Twp. 25. Rge. 8. E.

38-28-1A

117549

SIDE TWO

Operator Name Berentz Drilling Company, Inc. Lease Name Hawthorne Well # 2  
Sec. 27 Twp. 25 Rge. 8 East West County Greenwood

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 rates 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

Packer set 3015 +3020  
Interval tested 3015 - 3053  
Temperature 117 degrees  
Initial Hydrostatic 1492  
Initial Flow Pressure 43  
Initial Closed In 1003  
Final Flow Pressure 45  
Final Closed In 1004  
Final Hydrostatic 1468  
Bottom Hole Pressure 970

| Name              | Top  | Bottom |
|-------------------|------|--------|
| Kansas City       | 1894 |        |
| Cherokee          | 2326 |        |
| Bartlesville      | 2515 |        |
| Base Bartlesville | 2535 |        |
| Mississippi       | 2620 |        |
| Lime              | 2632 |        |
| Kinderhook        | 2992 |        |
| Viola             | 3050 |        |
| Simpson           | 3077 |        |
| T.D.              | 3105 |        |

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           | 12 1/4            | 8 5/8                     | 24             | 204           | Common         | 130         | 3% c.c.                    |
| Production        | 7 7/8             | 5 1/2                     | 14.5           | 2780          | Pozmix         | 160         | Gilsonite                  |

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

| Shots Per Foot | Specify Footage of Each Interval Perforated         | (Amount and Kind of Material Used) | Depth |
|----------------|-----------------------------------------------------|------------------------------------|-------|
| 2              | 2659 to 2661 - 5 shots                              | 15% MCA acid 300 gallon            | 2659  |
|                | The above perms. were squeezed 1-25-88              |                                    | 2661  |
|                | Re-perforated 1-29-88 (squeezed perms. with 100 sx) |                                    |       |
| 2              | 2521 to 2531 - 10' - 20 holes                       | frac w/30,000# + 664 BBL water     |       |

| TUBING RECORD | Size   | Set At | Packer at | Liner Run | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|---------------|--------|--------|-----------|-----------|----------------------------------------------------------|
|               | 2 3/8" | 2660'  | N/A       |           |                                                          |

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

| Estimated Production Per 24 Hours | Oil     | Gas | Water  | Gas-Oil Ratio | Gravity |
|-----------------------------------|---------|-----|--------|---------------|---------|
|                                   | 89 Bbls | MCF | 3 Bbls | CFPB          | 41      |

METHOD OF COMPLETION

Production Interval

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

☐ Open Hole ☒ Perforation  
☐ Other (Specify).....  
☒ Dually Completed  
☐ Commingled

2521  
.....  
2531  
.....