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ORIGINAL

31-12-19W

**KENMARK CORPORATION**

SCHOENTHALER #3

**K C C**

APR 3 1993

C-SE-NE  
Section 31-12-19W  
Ellis County, Kansas

Geological Report

API#15-051-24882

By:

Mark Kilian  
5508 Apache  
Great Bend, KS 67530

November 7, 1994

**KENMARK CORPORATION**  
**P.O. Box 572**  
**Hays, Kansas 67601**

ORIGINAL

RE: Schoenthaler #3  
C-SE-NE 31-12-19  
Ellis County, Kansas

API #15-051-24882

Dear Mr. Norton:

The Schoenthaler #3 well was drilled with rotary tools commencing Oct. 31, 1994 to a rotary depth of 3828' (-1695), drilling was completed November 6, 1994. No DST's were taken because of the structural position on the Lansing and 5 1/2" casing was set on bottom at 3825', wireline T.D.

|                         |                              |
|-------------------------|------------------------------|
| Operator:               | KENMARK Corporation          |
| Contractor:             | Emphasis                     |
| Elevation:              | 2132 K.B. 2127 G.L.          |
| Geological Supervision: | 3000' to R.T.D.              |
| Drilling Time:          | 3100' to R.T.D.              |
| Samples:                | 3100' to R.T.D.              |
| Drill Stem Tests:       | None                         |
| Electric Log:           | Tucker Wireline RAG Log      |
| Pipe Record:            | 8 5/8" @ 209' 5 1/2" @ 3825' |

| <u>Formation</u> | <u>Depth</u> | <u>Subsea Datum</u> |
|------------------|--------------|---------------------|
| Anhydrite        | 1485'        | + 646'              |
| Topeka           | 3165'        | - 1033'             |
| Heebner Shale    | 3400'        | - 1268'             |
| Toronto          | 3421'        | - 1287'             |
| Lansing          | 3442'        | - 1310'             |
| Base Kansas City | 3682'        | - 1550'             |
| Marmaton         | 3766'        | - 1634'             |
| Arbuckle         | 3795'        | - 1663'             |
| R.T.D.           | 3828'        | - 1696'             |

**Structural Comparison**

| <u>Martin--Keller</u> | <u>Schoenthaler #2</u> | <u>Schoenthaler #1</u> |
|-----------------------|------------------------|------------------------|
| Anhydrite             | + 646'                 | + 647'                 |
| Topeka                | -1033'                 | -1029'                 |
| Lansing               | -1311'                 | -1307'                 |
| Marmaton              | N.A.                   | -1629'                 |
| Arbuckle              | N.A.                   | -1673'                 |
| T.D.                  | N.A.                   | -1696'                 |

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NICHOLAS K. KIRBY

ORIGINAL

KENMARK CORPORATION  
Schoenthaler #3

API#15-051-24882

Zones Of Interest

| <u>Formation</u> | <u>Depth</u> | <u>Description</u>  |
|------------------|--------------|---|
| Topeka 30' Break | 3192-3202    | Limestone; buff fine crystalline, with fair intercrystalline 0 porosity, slight show free oil, slight stain, some dead flake oil; calc. 25% porosity. |
| Lansing "C" Zone | 3474-3480    | Limestone; cream pinpoint porosity, slight show free oil and light stain, no odor; calc. 12% porosity, 47% SWS.                                       |
| Lansing "D" Zone | 3490-3494    | Limestone; brown, show live oil in broken samples, pinpoint porosity with some vugs, slight odor; calc. 15% porosity, 28% SWS.                        |
| Lansing "G" Zone | 3536-3542    | Limestone; grey buff, fine crystalline with fair intercrystalline porosity, fair show live oil, slight odor; calc. 17% porosity.                      |
| Lansing "J" Zone | 3622-3626    | Limestone; tan, fair porosity, show live oil in wet samples, good odor; calc. 28% porosity, 13% SWS.  |

Summary and Recommendations

It was recommended 5 1/2" casing be set on bottom wireline total depth 3825' and the Arbuckle be perforated 3795' to 3799'. Note: Although there isn't any significant Arbuckle production within the immediate area structural position and favorable shows of free oil should warrant further testing of this zone.

After the Arbuckle has been produced to its economical limits the following zones in the Lansing-Kansas City should be perforated and tested before abandonment of this well.

|          |     |                |     |                |
|----------|-----|----------------|-----|----------------|
| Lansing; | "C" | 3474' to 3480' | "J" | 3624' to 3626' |
|          | "D" | 3490' to 3494' | "K" | 3637' to 3639' |
|          | "G" | 3536' to 3542' | "K" | 3646' to 3648' |
|          | "G" | 3556' to 3558' |     |                |

Respectfully submitted,  
Mark Kilian, Geologist

