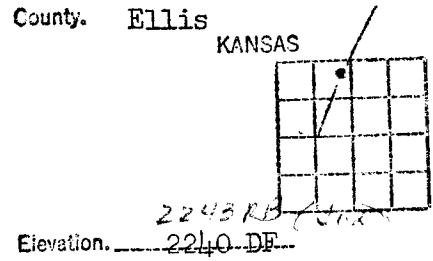


WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company - RINE DRILLING CO.  
Farm - Bemis No. 1

SEC. 33 T. 13 R. 19W  
NE NE NW

Total Depth. 3976  
Comm. 7-16-51 Comp. 7-30-51  
Shot or Treated.  
Contractor.  
issued. 9-8-51



CASING:  
8 5/8" 214' cem w/120 sxs.

Production. dry

Figures Indicate Bottom of Formations.

|                          |      |                          |                             |      |
|--------------------------|------|--------------------------|-----------------------------|------|
| post rock                | 50   | limestone brown,         | Snyderville                 | 3537 |
| clay, post rock          | 160  | chert                    | Toronto                     | 3551 |
| shale, shells            | 217  | shale brown              | Douglas                     | 3566 |
| shale                    | 680  | limestone brown          | Lansing                     | 3576 |
| sand, shale              | 960  | shale green              | Base Kansas City            | 3783 |
| sand, shale              | 1390 | limestone, chert         | Marmaton                    | 3820 |
| shale, shells            | 1542 | shale green-brown        | Conglomerate                | 3878 |
| anhydrite                | 1593 | limestone                | Arbuckle                    | 3936 |
| shale                    | 1810 | limestone, streaks       |                             |      |
| shale, shells            | 1980 | green & brown shale      | DST 3588-3611; open 1 hr.   |      |
| shale, limestone         | 2160 | limestone brown          | fair blow which decreased   |      |
| shale                    | 2275 | limestone brown, strks   | to small blow at end of     |      |
| limestone                | 2475 | brown shale              | test, Rec. 40' mud,         |      |
| limestone, shale         | 2770 | limestone                | trace oil. BHP 830#         |      |
| limestone                | 3000 | limestone, chert, strks. | (15 minutes)                |      |
| shale, green-gray to     |      | brown & gray shale       | DST 3688-3716; open 1/2 hr. |      |
| brown, limestone         | 3040 | limestone                | small blow which died       |      |
| sand, shale, siltstone   | 3094 | limestone, chert, strks  | in 15 min. Rec. 10' mud,    |      |
|                          |      | brown shale              | no oil or wtr. BHP          |      |
| limestone, brown,        |      | limestone                | 900# (15 min.)              |      |
| shale brown-green        | 3199 | limestone                | DST 3727-58; open 1 hr.     |      |
| limestone, shale,        |      | limestone, chert         | fair blow which lasted      |      |
| siltstone                | 3242 | limestone                | throughout test. Rec.       |      |
| siltstone, limestone     | 3251 | limestone brown          | 60' mud & salt wtr.,        |      |
|                          |      | limestone                | no oil. BHP 190#            |      |
| sand,                    | 3267 | limestone brown, chert   | (15 min.)                   |      |
| limestone, tan to brown, |      | brown                    |                             |      |
| streaks shale            | 3276 | limestone                | Stone Corral (electric      |      |
| limestone, tan to        |      | limestone, strks brown   | log) 1542                   |      |
| brown                    | 3281 | shale                    | Sample log 3000 to TD       |      |
| limestone brown, streaks |      | limestone, light brown   | 3276-3281 Possible trace    |      |
| brown shale              | 3315 |                          | spotted porosity            |      |
| limestone, tan to brown  | 3324 | limestone, chert         | 3315-3324 No stain          |      |
|                          |      | limestone                | 3349-3355 No stain          |      |
| limestone brown, shale   |      | limestone, chert         | 3359-3367 No stain          |      |
| green-gray-brown         | 3349 | shale, green & brown     | 3416-3419 Slight trace      |      |
| limestone, tan to        |      | pyritic, sandy shale,    | stain                       |      |
| buff                     | 3355 | strks red limestone      | 3424-3426 trace stain       |      |
| limestone, shale         |      | & gray limestone         | 3446-3450 No stain          |      |
| streaks                  | 3359 | limestone, chert red     | 3464-3568 no stain          |      |
| limestone                | 3367 | shale, green & brown     | 3490-3501 slight trace      |      |
| limestone tan to         |      | chert, limestone cement  | stain                       |      |
| buff, strks shale        | 3416 |                          | 3501-3530 no stain          |      |
| limestone tan to         |      | chert, red, trace br.    | 3576-3581 fair show dead    |      |
| buff                     | 3419 | oolites, red jasperoid,  | oil stain, no odor          |      |
| limestone tan to         |      | trace chert, shale       | 3603-3606 slight odor,      |      |
| br., chert               | 3424 | grn.                     | fair show free oil          |      |
| limestone                | 3426 | chert                    | 3623-3627 fair show dead    |      |
| limestone brown,         |      | dolomite red oolitic     | oil, no odor                |      |
| chert                    | 3446 | chert, strks gray-grn,   | 3653-3658 no odor or show   |      |
| limestone                | 3450 | shale                    | 3667-3671 trace dead oil    |      |
| limestone tan, strks.    |      | Total depth              | 3671-3674 trace dead oil    |      |
| shale                    | 3464 |                          | trace dead oil, no odor     |      |
| limestone tan,           | 3468 | Tops:                    | 3691-3693, 3708-3710        |      |
| limestone tan, strks,    |      | Topeka                   | show dead oil, no odor 3730 |      |
| shale, chert             | 3490 | Heebner                  | free oil, fair odor 3751    |      |
| limestone                | 3501 | Leavenworth              | trace odor, free oil 3778   |      |
|                          |      |                          | All Meas. taken fr. R.B.    |      |
|                          |      |                          | which is 3' above the D.F.  |      |