

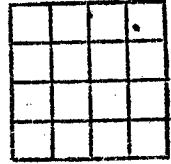
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company- ANSCHUTZ DRILLING COMPANY, INC.
Farm- Fleming "A" No. 2

SEC. 36 T. 16 R. 14W
SW NE NE

Total Depth. 3448
Comm. 8-27-52 Comp. 9-8-52
Shot or Treated.
Contractor. Anschutz Drlg Co., Inc. Rig #3
Issued. 3-12-55

County Barton
KANSAS



CASING:
8 5/8" 229' cem w/165 sx.
5 1/2" 3446'

Elevation. 1974 DF

Production. 101 bbls / 20% water

Figures Indicate Bottom of Formations.

NO LOG

| TOPS: SAMPLE & DRILLING TIME | SCHLUMBERGER |
|------------------------------|--------------|
| Heebner shale 3131 | 3133 |
| Brown limestone 3206 | 3208 |
| Lansing-K.C. Lime 3216 | 3218 |
| Shaley Conglomerate 3425 | 3427 |
| Arbuckle Dolomite 3444 | 3446 |
| RTD 3448 | 3450 |

Drill Stem Tests:

- #1 3071-3087 (16' anchor) tool open 60 mins., weak blow for 2 mins., rec. 7' mud, tool closed 20 mins., BHP 980#.
- #2 3219-3245 (26' anchor), tool open 120 mins., weak to fair blow, rec. 300' gas, 15' oil, 10' oil & gas cut mud, 40' muddy water, tool closed 20 mins. BHP 1000#.
- #3 3255-3286 (31' anchor) tool open 120 minst, strongblow, rec. 480' gas, 90' oil & gas cut mud, 60' oily mud & muddy oil, tool closed 20 mins., BHP 150# (building)
- #4 3341-3352 (11' anchor) tool open 60 mins., very weak to intermittent blow, rec. 30' mud, tool closed 20 mins, BHP 430#.
- #5 3341-3381 (40' anchor) tool open 120 mins, weak to fair blow, rec. 60' gas, 15' oil & gas cut mud, 35' watery mud, tool closed 20 mins., BHP 150#.
- #6 3383-3400' (17' anchor) Tool open 120 mins., weak to fair blow, rec. 160' water w/a rainbow show of oil, tool closed in 30 mins., BHP 970#.
- #7 3398-3416 (18' anchor) tool open 30 mins, weak blow for 3 mins., rec. 5' mud, Tool closed 20 mins. BHP 0#.

Ran Schlumberger T.D. 3450

| GEOLOGICAL ZONES OF POROSITY, OIL SHOWS: | T. peka Section | Schlumberge |
|---|-----------------------|-------------|
| Tan wht finely xyln, part sucrosic limestone, very slight show free oil, trace stain in fracture porosity, with some interstitial porosity, no odor. | 3075-3080 (5') | 3079-3084 |
| Zone 1 Lansing-Kansas City limestone | 3219-3223 (4') | 3221-3225 |
| Penetration 3' - 7' Wht oolitic chert & limestone, faint odor, poor interstis poro., very slight show free oil, poor spotted stain (mostly in limestone). This zone was present in the #2 & #3 Fleming. | Zone 2 3240-3244 (4') | 3242-3246 |
| Penetration 22' - 26' Tan med. xyln limestone, faint odor, very slight show free oil in partly leached, sucrosic crystalline porosity, spotted lgt stain. This Zone was present in the #2 & #3 Fleming. | Zone 3 3269-3273 (4') | 3270-3274 |
| Penetration 53' - 57' Tan wht oolitic & fossiliferous limestone, some chert, faint odor, very slight show free oil, fair pinhole & vugular porosity w/spotted fair lgt stain. This zone was present in the #2 & #3 Flening. | Zone 4 3282-3286 (4') | 3284-3288 |
| Penetration 66' - 70' Tan wht fossiliferous limestone, faint odor, very slight show free oil, poor to fair pinhole & vugular porosity, scattered spotted lgt stain. | Zone 5 3293-3298 (5') | 3294-3300 |
| Penetration 77' - 82' Wht tan oolitic & oolitic limestone, part susrosic, good porosity, no odor, no show free oil, no sat., or stain. This zone was present in the #2 & #3 Fleming. | | |

(Over)

Continued

36-16-11W

SW NE NE

Company- ANSCHUTZ DRILLING CO.

Farm- Fleming "A" No. 2

Samples &

Drlg Time

Schlumberger

Lansing-K.C. limestone (Cont.) Zone 6 3301-3310 (9') 3303-3312
 Penetration 85'-94' Wht gry oolitic & oolitic limestone, no odor, no show
 free oil, fair porosity, no trace saturation or stain, This zone was present in the
 #2 & #3 Fleming

Zone 7 3322-3324 (2') 3325-3327
 Penetration 106'-108' Tan gry fossiliferous limestone, streaked poor porosity,
 trace saturation & stain. This Zone was present in the #2 & #3 Fleming.

Zone 8 3336-3339 (3') 3334-3340
 Penetration 118'-124' Tan crystalline limestone, poor fracture porosity, no trace
 stain, This zone was present in the #2 & #3 Fleming.

Zone 9 3345-3351 (6') 3347-3354
 Penetration 129'-135' Tan gry oolitic & oolitic limestone, very faint odor, slight
 show free oil, in good oolitic porosity, spotted fair light to heavy stain,
 fair saturation. This zone was present & successfully drill stem tested in the
 #1 & #2 Fleming, however some water was recovered in a DST in this same zone in the
 #3 Fleming.

Zone 10 3367-3372 (5') 3369-3372
 Penetration 151'-156' Tan & white oolitic & fossiliferous limestone, faint odor,
 very slight show free oil, fair vugular & interstis porosity, very slight trace
 stain. This zone was successfully drill stem tested on the #3 Fleming.

Zone 11 3384-3388 (4') 3386-3392
 Penetration 167'-171' Tan white oolitic limestone, very faint odor, slight show
 free oil, in good oolitic porosity, fair to good spotted stain, barren in part.
 This zone was present in the #2 & #3 Fleming, and upon perforation in the #3 Fleming
 swabbed 7-3/4 BOPH for 7 hrs.

Zone 12 3410-3418 (8') 3412-3420
 Penetration 194'-202' Gry tan crystalline limestone, with some vugular porosity,
 fair show free oil, fair even saturation & stain; however the majority of this section
 carried no porosity or stain. This zone was present & better developed in the #2
 & #3 Fleming, & upon perforation & 1500gals. of acid in the #3 Fleming, swabbed
 12 BOPH for 7 hrs.

Arbuckle Dolomite 3444 (-1467) 3446 (-1469)
 Penetration 2'-4' 3446-3448 (2')
 Tan & white med. xyln dolomite, poor xyln & sub vugular porosity,
 trace free oil, trace saturation & stain.

Resume Structurally this test was found to be one (1') foot higher
 on the top of the Lansing-Kansas City limestone than the #3 Fleming, but four (4')
 lower than the #2 Fleming, which has the highest Lansing-Kansas City point in the
 pool. The Arbuckle, encountered at 3444 (-1467) was found to be three (3') feet
 higher than the #1 Fleming. & in lieu of this fact, might upon deepening conceivably
 produce some oil. Altho. the results of the drill stem tests in this test in the
 Lansing-Kansas City were not as favorable as in the #2 & #3 Fleming, the majority
 of the zones were present, as evidenced by the electric log, drilling time & samples,
 & upon perforations & acid, some of them should be commercially productive. Pipe
 was set 2' feet from RTD at 3446. W.W. Wakefield