

1-21-24W

SEP

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State Geological Survey  
WICHITA, BRANCH

### GEOLOGIC REPORT

APR 27 REC'D

Black Gold Exploration, Ltd  
#1 Fitz-Gerald

SW SW SE; Section 1-21S-24W  
Hodgeman County, Kansas

### MISCELLANEOUS DATA

Elevation: 2287 Gr.; 2290 R.D.F.; 2292 R.B.

This well was drilled with rotary tools, D-N-B Drilling Co., Inc., of Wichita, Kansas, the contractor.

Spudded April 8, 1981. Set 409' of 8 5/8" surface casing and cemented with 300 sacks common cement, 2% gel, 3% cc. Rotary completed April 16, 1981. Pool: Wildcat. Dry and Abandoned.

### GEOLOGIC TOPS & ZONES (Samples & Drilling Time)

HEEBNER SHALE	3734 (-1442)
LANSING-KANSAS CITY LIMESTONE	3784 (-1492)

No shows of oil were encountered in the Lansing-Kansas City Section.

BASE KANSAS CITY	4121 (-1829)
MARMATON LIMESTONE	4161 (-1869)

No shows of oil were encountered in the Marmaton Section.

PAWNEE LIMESTONE	4237 (-1945)
FORT SCOTT LIMESTONE	4304 (-2011)

### 4305-4310

Gray, fossiliferous limestone with fair to good vugular porosity. Fair odor and slight show of light to medium free oil in the fresh samples. Slight scattered stain and partial saturation in the dry samples. Tested in Drill-stem Test No. 1.

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4317-4326

Limestone, as above. Show light to medium free oil, stain and partial saturation. Included in Drill-Stem Test No. 1.

DRILL-STEM TEST No. 1

A test was taken from 4292' to 4329'. 30" - 30" - 30" - 30"; Had a weak blow throughout the first open period. No blow during second opening. Recovered 10' mud with a few oil specks. ICIP 132#; FCIP 117#; IFP 39#/39#; FFP 39#/39#.

CHEROKEE SHALE

4327 (-2035)

CHERTY CONGLOMERATE

4387 (-2095)

No shows

MISSISSIPPIAN DOLOMITE

4420 (-2128)

4420-4425

Mostly white, fine crystalline dolomite, with good vugular porosity. Good show light to medium free oil and good odor in the fresh samples. Good scattered light to medium staining and partial saturation in the dry samples. Tested in Drill-Stem Test No. 2.

DRILL-STEM TEST NO. 2

A test was taken from 4323' to 4425'. 30" - 30" - 30" - 30"; Had a fair blow throughout the test. Recovered 75 feet of oil specked mud with some free oil on top. Free oil in the tool. ICIP 1184#; FCIP 1138#; IFP 93#/93#; FFP 98#/98#.

4425-4432

Dolomite, as above. Good show of oil, odor, stain and saturation. Upper five feet of this portion tested in Drill-Stem Test No. 3.

DRILL-STEM TEST No. 3

A test was taken from 4425' to 4430'. 30" - 30" - 30" - 30"; Had a fair intermittent blow throughout the test. Recovered 75' of slightly gas cut mud. (No show of oil.) ICIP 1378#; FCIP 1346#; Chart showed some plugging action. Unable to read flow pressures.

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4432-4435

Dolomite as above but appeared to be re-worked. Had definite increase in chert and dark shale. Less oil show present. Considered not worthy of testing.

ROTARY TOTAL DEPTH

4435 (-2143)

REMARKS

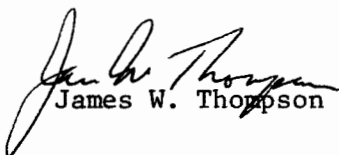
All above figures are rotary bushing measurements at an elevation of 2292', five feet above the ground level.

Samples were examined from 3550' to the total depth and drilling watched from above the Lansing to the total depth.

Straight Hole Tests: None over 2°.

From sample analysis and the results of drill-stem testing, no commercial possibilities were indicated.

No electrical log was run.

  
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