

SAMPLE LOG

DRILL HOLE: Gray # 14
PROP. OWNER: D. D. Gray
DRILL CONTRACTOR: J-J Drilling
DRILL OPERATOR:
DATE STARTED: 9/18/79
CASING LEFT IN HOLE: 47'

LOC: 1608' FEL, 1940' FSL
Sec. 34, T30S, R21E
Neosho Co., Kansas
LOGGED BY: DRK, MRG & MRR
ELEV: 841'
DATE COMPLETED: 9/19/79
TOTAL DEPTH: 300'

- 30 - 40 - Limestone, tan to brown to white; minor shale, black
- 40 - 50 - Limestone, tan to brown to gray, 60%; shale, black, 30%; clay, gray, 10%
- 50 - 60 - Shale, gray, soft and clayey, 2% pyrite modules and crystals; trace black shale and tan limestone
- 60 - 70 - Shale, gray, calcareous, 70%; limestone, tan, 30%
- 70 - 80 - Shale, gray, calcareous, scattered carbonized plant fragments and carbonaceous laminae, trace fine-grained pyrite
- 80 - 90 - Shale, gray, very slightly calcareous, trace fine-grained pyrite; minor clay, gray
- 90 - 100 - Shale, gray
- 100 - 120 - Shale, gray; trace pyrite
- 120 - 130 - Shale, gray, slightly calcareous; minor shale, brown; trace pyrite
- 130 - 140 - Shale, dark gray to black, calcareous, 60%; shale, gray, 20%; limestone, dark gray to brown, fossiliferous, 20%
- 140 - 150 - Shale, dark gray to black, calcareous, 70%; shale, gray, 10%; limestone, brown, 10%; clay, light gray, 10%
- 150 - 160 - Shale, dark gray to black, calcareous, 50%; shale, gray, with fine-grained pyrite, 30%; limestone, brown, 10%; clay, light gray, 10%
- 160 - 170 - Shale, light gray, calcareous, soft, 70%; shale, dark gray, 30%
- 170 - 178 - Shale, gray, slightly silty, local carbonized plant fragments, trace pyrite, 80%; shale, dark gray, 10%; sandstone, medium-grained, brown, locally micaceous and carbonaceous, 10%

CORE #1 - 178 - 198

- 178 - 179.6 - Sandstone, brown, fine-grained, oil seep
- 179.6-181.7 - Sandstone, brown, fine-grained, shaley, occasional seepage in fine strips
- 181.7-184 - Sandstone, to siltstone, brown-gray, shaley, shale pebbles
- 184 - 185 - Sandstone, brown, shaley, oil seep, slight gas
- 185 - 186 - Sandstone, brown, shale laminae, no seep
- 186 - 191 - Sandstone, brown, fine-grained, slight shale laminae, oil seepage with occasional gas
- 191 - 193 - Sandstone, brown, darker than above, no seepage
- 193 - 194 - Sandstone, slight seepage
- 194 - 198 - Sandstone, gray, tight, micaceous, shale laminae, no seepage
(One shale strip at 195 - 195.5)
- 198 - 199 - Shale, dark gray, calcareous 40%; shale, light gray, calcareous, trace pyrite, 30%; sandstone, medium-grained, brown micaceous (m.m.), trace carbonaceous fragments.
- 199 - 200 - Shale, light gray, calcareous 50%; shale, dark gray, calcareous 25%; sandstone, medium-grained, local carbonaceous fragments, 25%
- 200 - 201 - Sandstone, fine-grained, brown, local carbonaceous fragments, 60%; shale, dark gray-black, calcareous 30%; shale, light gray, calcareous, local carbonaceous fragments, 10%
- 201 - 202 - Sandstone, fine-grained, brown, carbonaceous and micaceous fragments, 70%; shale, dark gray-black, calcareous fragments, trace pyrite, 20%; shale, light-gray, calcareous, local carbonaceous laminations 10%

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Gray #14

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- 202 - 203 - Sandstone, fine-grained, brown, carbonaceous fragments, 90%; shale, black, calcareous, 5%; shale, light gray, calcareous, carbonaceous fragments 5%
- 203 - 204 - Sandstone, fine-grained, brown, carbonaceous and micaceous fragments, 90%; shale, black, calcareous, trace of pyrite 5%; shale, light gray, calcareous, trace of carbonaceous fragments 5%
- 204 - 205 - Sandstone, fine-grained, brown, locally carbonaceous and micaceous, 90%; shale, black, calcareous, trace of pyrite 5%; shale, light gray, calcareous, 5%
- 205 - 206 - Sandstone, fine-grained, brown, locally carbonaceous and micaceous, isolated iron oxidation 95%; shale, black, calcareous 4%; shale, light gray, calcareous, trace of pyrite 1%
- 206 - 207 - Sandstone, fine-grained, brown, locally micaceous and carbonaceous 95%; shale, light gray, calcareous 5%
- 207 - 208 - Sandstone, fine-grained, brown, locally micaceous and carbonaceous, 95%; shale, light gray, calcareous, trace of carbonaceous fragments, 3%; shale, black, calcareous 2%
- 208 - 209 - Sandstone, fine-grained, brown, locally carbonaceous and micaceous, 95%; shale, light gray, calcareous, local micaceous and carbonaceous fragments 5%
- 209 - 210 - Sandstone, fine grained, brown, locally micaceous and carbonaceous, 95%; shale, light gray, calcareous, local carbonaceous fragments, 5%
- 210 - 215 - Sandstone, fine-grained, brown, locally carbonaceous and micaceous, 85%; dead oil show (U.V.); shale, black, slightly calcareous, trace of pyrite, 10%; shale, gray, calcareous, some carbonaceous particles, 5%
- 215 - 220 - Sandstone, fine-grained, brown, micaceous, local concentration of carbonaceous particles 95%; dead oil show (U.V.); shale, light gray, calcareous, some carbonaceous particles, 5%
- 220 - 225 - Sandstone, fine-grained, brown, micaceous, local concentration of carbonaceous particles, slightly silty, 90%; dead oil show (U.V.); fossiliferous limestone (contamination?); limestone, gray, carbonaceous fragments 10%
- 225 - 230 - Sandstone, fine-grained, brown, micaceous and carbonaceous particles, 50%; dead oil show (U.V.); siltstone, black, carbonaceous fragments, 40%; limestone, light gray, carbonaceous fragments 10%
- 230 - 235 - Sandstone, fine-grained, brown, locally carbonaceous and micaceous 40%; dead oil show (U.V.); siltstone, gray-black, carbonaceous fragments 40%; limestone, light gray, carbonaceous fragments 20%
- 235 - 240 - Sandstone, fine-grained, brown, locally carbonaceous and micaceous 40%; limestone, light gray, carbonaceous fragments 30%; shale, black, massive 30%
- 240 - 245 - Shale, light-medium gray, carbonaceous, silty, fragments, trace of pyrite 70%; shale, black, massive 15%; sandstone, fine-grained, brown, carbonaceous fragments 10%; limestone, light gray, carbonaceous fragments 5%
- 245 - 250 - Shale, medium gray, carbonaceous fragments, silty, 80%; shale, black, massive, 15%; limestone, light gray, fossil coral (favorites?) 5%
- 250 - 260 - Shale, medium-gray, silty, 50%; shale, black, massive 45%; limestone, light gray, 5%
- 260 - 270 - Shale, black, massive, 50%; shale, light-medium gray, calcareous, trace of pyrite, silty, 50%
- 270 - 280 - Shale, light-medium gray, silty, slightly calcareous, poorly indurated 70%; shale, black, massive, trace of pyrite, slightly calcareous 30%
- 280 - 290 - Shale, light-medium gray, calcareous, trace of pyrite, poorly indurated 75%; shale, black, massive, platy, trace of pyrite 25%
- 290 - 300 - Shale, light-medium gray, calcareous, silty, 70%; shale, black, massive, platy, slightly calcareous, trace of pyrite 30%