

WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY
 412 Union National Bk. Bldg., Wichita, Kansas

15-163-03174

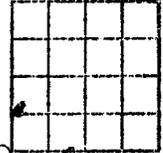
Company - JOHN B. HAWLEY JR.
 Farm - Green No. 1

SEC. 22 T. 8 R. 19W
 SW NW SW

Total Depth. 3460'
 Comm. 11-17-48 Comp. 12-8-48
 Shot or Treated.
 Contractor. E. & H. Drlg. Co.
 Issued. 3-26-49

County. Rooks

KANSAS



CASING:
 8-5/8" 165' Cem. 7/100 Sx.

Elevation. 2006 Ind.

Production. Est. 20 Bbls.

Figures Indicate Bottom of Formations.

clay	20
lime	100
shale blue	165
shale & shells	490
sand & shale	665
shale & shells	920
sand	1130
shale	1420
anhydrite	1450
shale	1610
shale & shells	1855
shale	2165
lime & shale	2705
shale	2797
lime & shale	2983
lime	3206
lime K. C.	3245
lime	3347
lime cherty	3365
lime	3441
lime RTD	3458
lime	3460
Total Depth	

Tops:

Topeka	2970
Heebner Shale	3161
Lansing K.C.	3199
Harmatón,	
Base K. C.	3408
Arbuckle	3456

22-8-1940

SAMPLE LOG

John B. Hawley, Jr.

Green No. 1

SW 20 SW Sec. 22, T. 8 S., R. 19 W., Rooks County, Kansas

Elevation: 2004' Derrick floor Total Depth (W/Rotary) 3458' Derrick floor

Comm. Drig. Nov. 17, 1948 Comp. Drig. (W/Rotary) Nov. 26, 1948

Casing: 8 5/8" - 165' Cemented with 125 sacks
5 1/2"

Contractor: H. & H. Drilling Co., Rig. No. 1

Drilling Superintendent: O. C. Arnett

Drillers: A.M. S. R. Busbee
Day W. C. Hager
P.M. C. G. King

Note: Formation tops and zones mentioned in the following log have been corrected to the derrick floor, which makes them two feet higher than drillers measurements which were made from the top of the rotary drive-bushing, which was approximately two feet above derrick floor.

Derrick floor was two feet above ground.

Abbreviations Used

lime. = limestone crys. = crystalline tex. = textured

<u>Depth</u>	<u>Description of Formation</u>
2650-2665	Light gray fine tex. and fine crys. lime. with little gray and red shale.
2665-2670	? (Practically all well-rounded "frosted" coarse grained friable quartz sandstone;- Trip made at 2670' and sand probably caved from Dakota series).
2670-2905	Light gray and gray partly mottled fine crys. lime.
2905-2910	Dark and black shale with little gray micaceous fine sandy shale.
2910-2925	Light gray and gray fine crys. lime. with little gray pyritic shale.
2925-2935	Red with little dark and gray shale.
2935-2960	Light gray and gray fine crys. lime. with little gray-dark and red shale.
2960-70	Gray and dark shale with little micaceous sandy shale and some red shale.

2970 (-966) Top of Topeka Limestone

DELMER L. POWERS, WICHITA, KANSAS

- 2970-2985 Light gray fine crys. lime. with little pyrite and little green shale.
- 2985-3000 White and light gray fine crys. fine tex. lime.
- 3000-3010 Light gray and gray fine crys. lime.
- 3010-3020 Light gray and gray fine crys. with little oolitic lime.
- 3020-3040 Light gray fine crys. slightly cherty lime.
- 3040-3050 Light gray fine crys. slightly cherty slightly oolitic lime.
- 3050-3055 Dark with some black shale.
- 3055-3065 Light gray fine crys. and fine tex. lime.
- 3065-3070 Black carbonaceous and gray-dark shale with little red shale.
- 3070-3080 Light gray fine crys. fine tex. lime.
- 3080-3100 White and light gray fine crys. lime. with little porosity in upper part.
- 3100-3105 Very dark shale.
- 3105-3125 White and light gray fine crys. fine tex. lime.
- 3125-3135 White, light gray and little gray fine crys. lime. with trace of chert.
- 3135-3161 Light gray fine crys. partly cherty lime.

3161 (-1157) Top of Heebner Shale

- 3161-3164 Black carbonaceous finely laminated fairly soft shale with little pyrite.
- 3164-3174 Light gray fine crys. somewhat fossiliferous lime.
- 3174-3185 Red with some pale green and gray shale.
- 3185-3192 Light gray fine crys. lime.
- 3192-3199 Red, gray and little pale green shale.

3199 (-1195) Top of Lansing - Kansas City Limestone

- 3199-3205 Light gray fine crys. slightly cherty lime. with some non-porous oolites.
- 3205-3209 Light gray fine crys. lime.
- 3209-3213 Light gray and white fine crys. lime. with some medium crys. and fine granular dolomite; very cherty.

(Circ. 1 hr. @ 3214'; samples had no oil odor or stain).

- 3213-3220 Light gray fine crys. cherty lime. with some fine crys. dolomite.
- 3220-3225 Light gray fine crys. cherty lime.
- 3225-3236 Dark gray with little black and much red shale.
- 3236-3244 Light gray fine crys. and slightly porous oolitic lime. with slight spotted oil stains. (Circ. 1 hr. @ 3244')

Checked Depth 3247' Drill-pipe = 3247 S.L.M. Made drill-stem test 3236'-3247'; open 1 hr.; recovered 10' of mud. (No oil present).

- 3244-3250 Light gray fine crys. lime. with little fine crys. dolomite; slightly cherty.
- 3250-3261 Light gray fine crys. lime. with little fine crys. dolomite.
- 3261-3271 Gray-dark with little black shale and some red shale.
- 3271-3284 Light gray fine crys. lime. with trace of chert.
- 3284-3290 Light gray fine crys. slightly porous oolitic lime. with little dolomitic lime. and tan dolomite; no oil. (Circ. 1 hr. @ 3291').
- 3290-3297 Light gray fine crys. lime.
- 3297-3300 Light gray fine crys. slightly porous oolitic lime.
- 3300-3314 White and light gray fine crys. lime.
- 3314-3323 Light gray fine crys. cherty lime.
- 3323-3338 Gray-dark and some red shale and light gray partly cherty lime.
- 3338-3354 Light gray fine crys. cherty lime. with little gray and red shale.
- 3354-3358 Light gray fine crys. lime. with trace of very fine oolitic lime.;-very slightly porous with spotted traces of oil stain.
- 3358-3384 Light gray fine crys. lime. with little gray and dark shale.
- 3384-3394 Light gray and white fine crys. fine tex. lime. with little very fine granular partly chalky lime. with very few slight spotted oil stains. (Circ. 1 hr. @ 3391').
- 3394-3408 White and light gray fine crys. lime. with trace of pink chert.

3408 (-1404) Top of Marmaton Formation (Base Kansas City)

- 3408-3419 Gray, red and little pale green shale.
- 3419-3422 White and light gray fine to medium crys. lime.
- 3422-3425 White medium and coarse crys. moderately soft lime. (Circ. 1 hr. @ 3428').
- 3425-3436 Gray, greenish gray and dark red shale. (Circ. 1 hr. @ 3439').
- 3436-3444 Red and dark red shale with little gray and pale green shale. (Circ. 1 hr. @ 3448').
- 3444-3450 Gray and greenish gray with some red shale.
- 3450-3454 Light gray fine crys. lime. (Circ. 1 hr. @ 3453').
- 3454-3456 Greenish gray with some red shale.

3456 (-1452) Top of Arbuckle Dolomite

- 3456-3458 Light gray with some pinkish gray and little tan fine to medium crys. slightly sandy cherty dolomite with some oolitic and partly porous oolitic dolomite with considerable staining and little saturation with very dark "live" oil. (Some fair to good porosity; fresh wet samples had distinct oil odor and some free oil was washed from samples). (Circ. 1½ hrs. @ 3458').

Checked depth 3458' Drill-pipe = 3458 S.L.M.

3458 (-1454) Total Depth with Rotary

Schlumberger Electric Survey made of hole.

Electric survey and observations
at well completed A.M. Saturday,
November 27, 1948.

Delmer L. Powers
Delmer L. Powers
Petroleum Geologist