

D 5

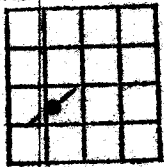
Company - STERLING DRIG.CO.
 Farm - Randall No. 1.

SEC. 11 T. 5 R. 27 W
 C W 1/2 NE SW

61164

Total Depth. 4144'
 Comm. 9-5-44 Comp. 10-1-44
 Shot or Tested.
 Contractor. Sterling Drig.Co.
 Issued. 10-28-44

County. Decatur
 KANSAS



CASING:
 10 3/4" 265'

Elevation. _____

Production. Dry

Figures indicate Bottom of Formations.

clay & shale	0-180
shale	965
shale & shells	1165
lime sdy & shale	1450
Lost circulation 24 hrs.	
shale	1590
shale & lime	1710
lime	1800
red rock & shale	2050
shale & red rock	2205
lime hd	2290
shale	2690
lime & shale	2815
shale	2935
lime & shale	3011
lime	3040
shale	3061
lime	3129
lime & shale	3190
shale	3340
lime	3455
shale red	3470
lime	3688
lime & shale	3851
shale red & lime	3922
shale red	4052
lime	4118
shale dk red	4126
shale very sdy	4130
sand coarse	4132
granite pink	4144
Total Depth	

Sample Tops Corr to Derr Flr.:

Anhydrite	2210
Topeka	3360
Heebner Shale	3586
Lansing KC	3612
Base KC	3825
Arbuckle	4044
Base Arbuckle	4110
Basal Sand	4129
Pre Cambrian	
Granite	4131
Total Depth	4143

4044
 26 3/4
 1408

Sterling Drilling Company:

Randall # 1
CWT NE 1/4 SW 1/4 Sec. 11, T.5 S., R. 27 W.,
Decatur County, Kansas.

Total Depth 4145
Comm. Drlg. Sept. 7, 1944

Elevation 2636 (Derrick Floor)
Comp. Drlg. Oct. 1, 1944

Surface Pipe 10 3/4" 265', - Cemented with 250 sks. Oct. 8, 1944
by Halliburton

SAMPLE LOG

- Depths corrected to derrick floor

Abbreviations used: Crys. - crystalline
Tex. - textured
Lime - limestone
Sand - sandstone

- 3245-50 White & light gray fine granular fine micaceous sandy lime
- 3250-80 Dark red with little gray shale
- 3280-88 Gray & light gray partly mottled fine crys. fine tex. lime
- 3288-90 Gray & mottled partly porous lime with spotted stains of live oil
- 3290-3325 Dark-red shale with thin light gray lime stringers
- 3325-55 Light-gray & white fine crys. fine tex. lime w/some fusulinids
- 3355-60 Dark red shale
- 3360 (-724) Topeka limestone
- 3360-70 White fine crys. fine tex. leached slightly porous lime
- 3370-3400 Light gray fine crys. fine tex. lime
- 3400-10 Red with little green shale
- 3410-40 White crys. & granular partly chalky lime
- 3440-55 Red with some green shale & very little med. grained limy sand
- 3455-3505 White crys. fossiliferous leached partly porous lime
- 3505-20 Red with little green shale
- 3520-30 White fine crys. fine tex. partly porous lime
- 3530-40 Red with little green shale
- 3540-60 White fine crys. & fine tex. leached partly porous lime
- 3560-70 Red with little green shale
- 3570-88 White fine crys. fine tex. lime
- 3586 (-950) Heehner shale
- 3586-89 Black, carbonaceous, finely-laminated, soft, shale
- 3588-3605 White fine crys. & fine tex. lime
- 3605-12 Dark red shale
- 3612 (-976) Lansing-Kansas City lime
- 3612-20 White fine crys. lime with few solid oolites
- 3620-30 Dark red with little gray shale
- 3630-51 White fine crys. lime with little porosity and spotted dark oil stains 3445-51
- 3651-52 White partly porous oolitic lime with spotted live oil stains
- 3652-59 Dark red shale with some lime
- 3659-62 White leached partly porous finely oolitic lime with spotted very dark oil stains and residue
- 3662-75 Light gray & white fine crys. cherty lime
- 3675-86 Dark red with little green & gray shale
- 3685-90 White fine crys. slightly cherty lime
- 3690-95 Dark red shale

DELMER L. POWERS, WICHITA, KANSAS

Randall # 1; CW $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ 11-5-27W
Decatur County, Kans.

SAMPLE LOG (cont'd.)

- 3695-98 Light gray fine crys. lime
3698-3702 White partly porous lime & partly porous oolitic lime with little spotted oil stain
- 3702-15 Light gray & white fine crys. very cherty lime
3715-24 Dark red with little gray shale
3724-27 White fine crys. w/little partly porous lime with light spotted oil stains
- 3727-30 Dark red shale
3730-35 White fine crys. lime
3735-45 White fine crys. slightly cherty lime
3745-60 Dark red with little green & gray shale
3760-70 Light gray and white fine to medium crys. lime
3770-85 Dark red shale with few lime stringers
3785-3817 White and light gray very fine crys. lime - chalky at top
3817-22 White fine crys. lime with little fine porous lime and few fragments with slight spotted oil stain
- 3822-25 White fine crys. lime
3825 (-1189) Base Kansas City limestone
- 3822-35 Red with little green and gray shale
3835-40 Light gray very fine crys. lime
3840-60 Dark red with some greenish-gray shale
3860-65 Light gray & white fine-medium crys. lime
3865-80 Dark red shale with few thin lime stringers
3880-95 Dark red shale with minute lime nodules and few fragments of yellow shale, chert, quartz grains and feldspar(f)
- 3895-3906 Gray lime & fine nodular lime with some red shale
3906-40 Dark red, some purple and little yellow shale with sand grains and few thin lime stringers
- 3940-55 Dark red with some greenish-gray shale
3965-70 Greenish-yellow shale
3970-78 Dark red with some greenish-yellow shale with minute lime nodules
3978-82 Red, pink and gray fine crys. lime with minute lime nodules
3982-90 Red and greenish-gray shale
3990-4095 Red, pink & gray fine crys. lime with minute nodules
4095-4110 Coarse quartz sand and little chert with red and some green shale
4110-35 Dark red, purple, greenish gray & little yellow shale
4135-44 Dark red shale with little quartz sand and fine red-pink lime nodules
- 4044 (-1408) Arbuckle dolomite
- 4044-50 Light gray fine-medium crys. fairly porous dolomite
4050-60 Light gray with little pink medium crys. partly glauconitic fairly porous dolomite
4060-70 Light gray and slightly pink medium crys. partly sandy dolomite with fair to good porosity
4070-95 Light-gray with some pink partly glauconitic slightly sandy quite porous dolomite
4095-4110 Light gray with some pink very glauconitic slightly sandy, fairly to very porous dolomite
- 4110 (-1474) Base Arbuckle
- 4110-12 Light-gray & greenish gray fine quartz sandstone with little dolomite cement - quite well indurated
4112-24 Very dark red and maroon with little purple shale with some imbedded quartz sand grains of various sizes(drilled with difficulty)

Randall # 1; CW $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ 11-5-27W
Decatur County, Kans.

SAMPLE LOG (cont'd.)

4124-29 Dark red, pink & gray very sandy shale; quartz sand, weathered feldspathic(?) material and kaolin

4129 (-1493) Basal sandstone

4129-31 Light colored very coarse sandstone; grains to nearly 1/8 inch diameter, well rounded and frosted - composed largely of clear quartz with kaolinitic material in interstitial spaces

4131 (-1495) Pre-Cambrian

Pink fairly fine crystalline granite, quite weathered at top to fresh below

4143

TOTAL DEPTH

Circulated 1 $\frac{1}{2}$ hrs. for samples at total depth.

Completed circulation for samples at 11:07 P. M. Central Daylight Saving Time, Sunday, October 1, 1944

Delmer L. Powers

12:40 A.M. Tues. Oct. 3, 1944

Notes on Schlumberger Survey by C. H. Leeper, Schlumberger Operator

Anhydrite 2210'

3610-20 Slightly porous, probably water

3651-55 Dead oil stains

3660-70 Slightly porous - no restivity

3698-3707 Slight oil show, fair porosity and fair to poor restivity.
Recommended not worth setting pipe

3707-13 Water

3727-49 Slight porosity - no show of oil

3785-97 No porosity - no show

3820-31 Slight porosity - no show