

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

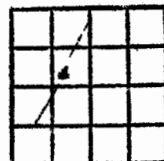
Company- EMPIRE DRUG. CO. & GRANLYN
Farm- Shughart No. 1

SEC. 23 T. 5 R. 21W
SW SE NW

Total Depth. 3613
Comm. 6-24-53
Shot or Treated.
Contractor.
Issued. 2-19-55

Comp. 11-4-53

County Norton
KANSAS



CASING:

No Csg. Reported

Elevation. 2181 DF

Production. dry

Figures Indicate Bottom of Formations.

All depths are from Kelly Bushing

Well	Interval	Formation	Notes
3331-3334		Shale- Black, carbonaceous	3538 shale-gray green to red brn.
3339		limestone-dove gray, fine to dense crystalline	3548 limestone, light gray, fine crystalline, with poor pin-point porosity. Spotted stain.
3356		shale, red brn to dark gray	3551 shale-gray
3356-3360		limestone, gray to light gray, fine crystalline to slightly granular, slightly dolomitic. Trace of stain in poor pin-point porosity.	3562 limestone-cream, fine crystalline, slightly oolitic and fossiliferous, with poor to fair, vuggy and inter-oolitic porosity. Spotted stain. No odor. Trace of blk residual oil. Slight watery appearance.
3368		limestone-gray, fine crystalline, with much gray to blue gray translucent chert.	
3372		shale-red brown	3567 shale-red brown.
3392		limestone-light gray to cream, fine crystalline, slightly oolitic, with tr of oolitic and pinpoint porosity. Trace of free oil. No odor.	3587- sandstone-red brn, argillaceous fine grained.
3403		shale-red brn	3591 limestone-light gray to cream, fine crystalline, slightly fossiliferous.
3412		limestone-light gray, fine crystalline, finely oolitic, slightly chalky, with poor to fair porosity, faint odor, trace of free oil. Trace of gray opaque chert.	3600 shale-red brown
3418		shale- red brown	3606 limestone-light gray to gray, fine crystalline.
3429		limestone-light gray, fine crystalline, with blue gray translucent chert. Poor pin-point porosity.	3609 dolomite-gray, fine to medium crystalline, tight.
3436		shale-red brown	3613 dolomite-gray, glauconitic, medium rhombic crystalline, with much embedded sub-round quartz sand. Fair odor. Trace of free oil.
3454		limestone-buff to light gray, fine crystalline, oolitic to oolitic, with strong odor. Trace of free oil. Poor to fair porosity.	Total depth
3471		limestone-light gray, fine crystalline to dense, with much gray opaque chert.	Tops:
3477		limestone-dark gray, fine crystalline, pyritic	Heebner 3331
3488		shale- gray to red brown	Toronto 3356
3501		limestone-gray, fine crystalline, slightly cherty, slightly pyritic, fossiliferous at top.	Lansing-KC Groups(Undifferentiated) 3372
3509		shale - gray to red brown	Base Kansas City 3562
3516		limestone-gray to gray brown, fine crystalline.	Arbuckle 3606
3518		shale-dark gray	Remarks:
3530		gray to gray brown, fine crystalline, slightly fossiliferous, with poor fossiliferous and intercrystalline porosity. Faint odor. Spotted stain.	DST #1 3357-3428 Tool open one hr. Strong blow throughout. Rec. 990' of muddy salt wtr. 20 minute shut-in bottom hole pressure-1220 pounds. Final flow pressure-445 pounds.
			DST #2 3603-3613, Tool open one and one-half hrs. Fair blow throughout. Rec. 150 feet of clean oil, 60 feet of muddy oil. 20 minute shut-in bottom hole pressure-920 pounds. Final flow pressure-60 pounds.