

Computer Inventoried Formation Log

WENDELL S. JOHNS

Perrier #2 Soderstrom
NE NE NE, 21-17S-13W
Barton County, Kansas
Elevation: 1955 Derrick Floor

Commenced 4-2-48
Completed 4-21-48
8-5/8" casing 284
5-1/2" casing 3429

Note: All measurements are from the top of the rotary bushing which is 2 feet above the derrick floor.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0- 65	Limestone and shells	Driller's log 0-2700
65- 95	Sand	
95- 220	Sand and shells	
220- 310	Shale and sand shells	
310- 650	Shale and shells	
650- 770	Red Beds and limestone	
770- 850	Shells	
850-1100	Limestone and shale	
1100-1300	Shale and shells	
1300-1510	Limestone and shale	
1510- 65	Salt and shale	
1565-1650	Broken limestone and shale	
1650-1880	Limestone and shale	
1880-1965	Limestone and broken limestone	
1965-2030	Broken limestone	
2030- 80	Limestone	
2080-2185	Broken limestone	
2185-2500	Limestone and shale	
2500- 25	Broken limestone	
2525-2700	Limestone and shale	
2700- 08	Shale, gray & brown, trace green silty sand	Sample log 2700- TD
2708- 15	Limestone, dirty gray, finely crystalline	
2715- 77	Shale gray and brown, sand fine, gray, silty, trace of thin limestone streaks	
2777-2880	Limestone gray to dark gray to brown, dense to finely crystalline. A few thin gray shale streaks and a trace of chert.	Top Topoka 2777
2880-2915	Limestone as above, some brown and white opaque chert	
2915- 20	Brown shale	
2920- 32	Limestone as above, no chert	
2932- 36	Shale, dark gray to black	
2936- 70	Limestone as above	
2970- 90	Limestone as above, some white opaque chert	
2990-3000	Limestone, fossiliferous, light tan to light brown, dense	
3000- 10	Limestone, gray to brown finely crystalline, little if any porosity.	Spotted stain
3010- 22	Limestone as above with some shale streaks	
3022- 28	Limestone light brown, crystalline to finely crystalline, some oolites and oolite casts, trace of porosity.	Trace of stain
3028- 44	Limestone, light brown finely crystalline	
3044- 49	Limestone, gray, sub-crystalline to sucrose, trace oolite casts, some porosity	Good stain in dry samples

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3049- 55	Limestone as above, no porosity	
3055- 72	Limestone as above, much chert, gray, blue-gray, brown, non-vitreous to semi-vitreous	
3072-3105	Limestone, tan to brown, sub-crystalline to dense, possibly some thin gray shale streaks in bottom part.	
3105- 08	Shale, black, soft, brown streak	Heckner 3105-08
3108- 25	Limestone, tan to brown, sub-crystalline, with gray shale streaks	
3125- 38	Limestone, white, finely crystalline	Dodge 3125-38; Base Grand 338
3138- 89	Shale, gray, brown and green, some sand, gray, fine, micaceous	Douglas 3138-89
3189- 98	Limestone, brown, crystalline to dense, resinous	Brown Lansing 3189-98
3198- 99	Shale, gray	
3199-3213	Limestone, light tan, finely crystalline	Top Lansing 3199
3213- 15	Limestone, light tan, dense oolitic and oolitic, some vugular porosity.	Good stain, some odor, some free oil
3215- 24	Limestone, tan dense, trace oolites, trace chert, white translucent	
3224- 28	Limestone as above, possibly some porosity	Possibly some stain
3228- 44	Limestone as above, no porosity or stain, some chert, dark blue-gray, opaque	
3244- 47	Limestone as above, trace porosity	Spotted stain; some free oil
3247- 54	Limestone, white to tan, finely crystalline to crystalline	
3254- 58	Limestone, brown, oolitic trace porosity	Trace of stain
3258- 68	Limestone, dark gray, finely crystalline	
3268- 71	Limestone, brown and tan crystalline to finely crystalline, some oolites and fossils, some porosity	Fair stain
3271- 82	Limestone, light tan to white, finely crystalline, some black oolites	
3282- 90	Limestone, white to cream sucrose, very oolitic and oolitic, some porosity	Fair stain, some free oil, slight odor
3290-3300	Limestone as above, less oolites and porosity, little or no stain	
3300- 06	Limestone as above, very oolitic and porous, little if any stain	
3306- 50	Limestone tan, brown, and dark gray, dense	
3350- 75	Limestone, tan to light gray, dense, some vugular porosity, some oolites	Some dark oil stain, probably dead
3375- 89	Limestone, light cream, finely crystalline to dense	Base Kansas City 3389
3389- 92	Shale, brown	Marathon 3389-3427
3392-3423	Limestone, tan to brown, finely crystalline to dense traces of oolites, streaks gray shale, traces of vugular porosity with dark oil stains (probably dead) in base of limestone	
3423-27	Green sandy shale, some chert, white and amber	Conglomerate 3423-27
3427- 30	Dolomite, light tan, finely sucrose, and brown finely crystalline, much chert, white and blue-gray translucent to transparent, some oolitic, some porosity	Top Arbuckle 3427; fair show of free oil; good odor

3430	Rotary Total Depth	
3430- 31	Dolomite, finely crystalline, fair to good porosity, white translucent chert	Drilled plug and additional section with cable tools; stain but no free oil to 3431.
3431- 34	Dolomite, brown, finely crystalline, poor porosity, much tripolitic material and vitreous white chert	Swabbed 2-3/4 BOPH and no water - 100' off bottom at 3434; acidised 500 gals; swabbed 4 BOPH - 100' off bottom
3434- 36	Dolomite, brown, finely crystalline fair porosity; good stain; trace greenish-black shale and blue translucent chert	
3436	Final Total Depth, No increase, swabbed 4 BOPH and no water 100' off bottom; filled up 1900' with oil in 11 hours; Ran tubing and rods.	

Samples examined and log compiled by Wendell S. Johns