

Computer Inventoried

Formation Log

WENDELL S. JOHNS

Forrier #3 Soderstrom
SW NE NE, 21-175-13W
Barton County, Kansas
Elevation: 1964 Derrick Floor

8-5/8" casing 310'
5-1/2" casing 3435'
Commenced: 4-16-48
Completed: 5-22-48

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

Depth	Formation Description	Remarks
0- 45	??	Driller's log. 0-2700.
45- 344	Sand and shale	
344- 465	Shale	
465- 660	Red Rock	
910- 65	Anhydrite	Stone Corral
965-1165	Red beds and shells	
1165-1470	Shale and shells	
1470-1970	Limestone and shale	
1970-2055	Limestone	
2055-2250	Limestone and shale	
2250-2310	Limestone	
2310-2700	Limestone and shale	
2700- 05	Shale, gray and maroon	Sample log 2700 to total depth.
2705- 16	Limestone, gray to brown sub-crystalline	
2716- 30	Shale, gray, brown & green	
2730- 48	Limestone as above, more fossils	
2748- 54	Sand, medium, gray, silty, micaceous	
2754- 67	Limestone as above	
2767- 70	Shale, brown	
2770- 96	Sand, gray, silty, very micaceous	
2796-2850	Limestone, gray to brown, dense to finely crystalline.	Top Topeka 2796.
2850- 65	Limestone, dark gray - brown, some nearly black, fossiliferous, dense to finely crystalline.	
2865-2900	Limestone, brown, dense	
2900- 06	Limestone as above, trace gray to black opaque chert.	
2906- 31	Limestone, light brown, finely micaceous, chert, black & gray, opaque, fusulinids.	
2931- 34	Shale, gray	
2934- 42	Limestone as above	
2942- 45	Shale, dark gray	
2945- 52	Limestone, tan, soft, very fossiliferous	
2952-3000	Limestone, tan, dense, few thin shale streaks at bottom.	
3000- 34	Limestone, brown to light tan, sucrose to finely crystalline, trace of chert.	
3034- 39	Limestone, tan to light brown, very oolitic, some oolicasts, and porosity.	Possible trace oil stain.
3039- 59	Limestone, tan, dense, chert light gray and blue-gray, mottled opaque.	
3059- 62	Limestone, light brown sucrose, pin point and vugular porosity	Good show of oil
3062- 72	Limestone, gray and tan dense	
3072- 77	Limestone, tan oolitic, no porosity.	

Ferrier #3 Soderstrom

Depth		Description	Remarks
3077-3101		Limestone, tan and light gray, dense, much chert, some green to blue-gray , non-vitreous.	
3101- 57		Strata brown and gray shale	
3107- 19		Limestone as above , as Chert.	
3115- 18		Shale, black, soft	Hestner 3115-18.
3118- 34		Streaks of limestone as above and gray and brown shale.	
3134- 40		Shale, brown.	
3140- 46		Limestone, white, finely crystalline, no porosity.	Dodge, trace stain.
3146- 97		Shale, green-gray and brown, trace fine gray sand near middle.	Douglas.
3197-3206		Limestone, gray and brown, dense to finely crystalline, crinoidal.	Brown Lansing.
3206- 08		Gray shale.	
3208- 13		Limestone, light brown, crystalline to sub-crystalline.	Top Lansing 3208; trace oil stain.
3213- 17		Limestone, tan and gray, finely crystalline.	
3217- 23		Limestone, tan and gray, finely crystalline to crystalline.	Fair stain of free oil.
3223- 39		Limestone, tan some colites and oolite, chert, brown translucent & white opaque.	
3239- 45		Limestone as above, streaks porosity.	Some free oil.
3245- 55		Limestone, tan to green, finely crystalline.	
3255- 66		Limestone as above, many small colites, some oolite, trace gray opaque chert.	Trace of stain.
3266- 71		Limestone as above, no stain.	
3271- 73		Limestone, light brown oolitic and oolite	Fair stain, free oil.
3273- 87		Limestone as above, no stain.	
3287- 90		Limestone, red-brown, very oolitic, trace porosity	Trace free oil.
3290- 98		Limestone as above, no stain.	
3298-3313		Limestone, brown, oolitic, trace oolite, trace porosity	Some oil stain and free oil.
3313- 55		Limestone, hard, gray to brown, dense to crystalline.	
3355- 58		Limestone as above, trace colites and vugular porosity.	Fair spotted stain in dry samples.
3358- 62		Limestone as above, no porosity	
3362- 68		Limestone, green, very oolitic, many fusulinids, oolite and inter-oolitic porosity.	Fair stain of black oil, some free oil
3368-3420		Limestone, tan, dense, some colites	
3420- 24		Shale, gray.	
3424- 26		Limestone, brown, finely crystalline, coarse colites.	Good odor and stain.
3426- 33		Streaks limestone and green shale	
3433- 38		Dolomite, tan, finely sucrose, some hard brown finely crystalline, white and brown opaque and translucent chert.	Top Arbuckle 3433; good odor and stain.
3438		Rotary Total Depth	
3438- 45		Dolomite, hard, tight, finely crystalline to sucrose, much chert, translucent to opaque, white and brown, some oolitic.	Trace stain.
3445- 48		Dolomite, brown, finely crystalline, very porous, less chert.	Good saturation.
3448		Total Depth	

3433-43 - stain but no fillage; Dumped 1 barrel acid at 3443;
 Let stand over night - had 1/2 hailer free oil - tried to
 acidize but formation would take none.

Drilled to 3448 - filled up 1650' with oil over night; Acidized
 with 500 gallons - Pumped 1 barrel oil in 12 minutes.

Samples examined and log compiled by Randall S. Johns