

Formation Log

Bedell-Catt #1 Owens  
 SW SE NW, 30-299-6E  
 Butler County, Kansas  
 Elevation:

8 5/8" Surface Casing ?  
 Com: 9-11-54  
 Comp: 9-18-54

Note: All measurements are from the top of the rotary bushing which is one foot above the derrick floor and 5 feet above the ground.

<u>Depth</u>	<u>Formation Name</u>	<u>Remarks</u>
0 - 80	Surface hole - no log	Drillers log 0-1700
80 - 475	Limestone and shale	
475 - 790	Shale and shells	
790 - 977	Shale and limestone	
977 - 1135	Limestone and shale	
1135 - 1260	Shale and limestone	
1260 - 1380	Limestone and shale	
1380 - 1570	Shale and limestone	
1570 - 1700	Shale and shells	
1700 - 28	Shale, gray and brown	Sample log 1700 - T.D.
1728 - 35	Limestone, tan to brown, finely crystalline, fossiliferous, oolitic	Top Lansing 1728 Possibly Pedee 1728-48
1735 - 38	Shale, with streaks limestone and sand	
1738 - 48	Limestone as above	
1748 - 88	Sand, white, medium to coarse, to brown, fine. Shaly throughout	Stalnaker Possible trace dead oil stain 1765-80
1788 - 92	Shale, gray	
1792 - 98	Sand as above	
1798 - 1801	Shale, gray	
1801 - 40	Sand, white, glassy, medium, angular, free to aggregated	
1840 - 44	Shale, gray	
1844 - 48	Limestone, brown, dense to crystalline, resinous, fossiliferous	
1848 - 59	Shale, gray	
1859 - 67	Limestone, brown, sucrose, very oolitic and porous	Appears to be saturated with oil - Electric log shows water
1867 - 80	Limestone, light gray to white, subcrystalline to finely crystalline	
1880 - 87	Limestone, brown, finely crystalline to subcrystalline. Some porosity	Possible trace oil stain
1887 - 99	Limestone, light tan to white, chalky to subcrystalline. Chert, tan to white, opaque	
1899 - 1902	Shale, gray	

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<u>Depth</u>	<u>Formation Name</u>	<u>Remarks</u>
1902 - 09	Limestone, as above, darker brown	
1909 - 23	Shale, gray	
1923 - 30	Limestone, dark brown to black, subcrystalline to dense; streaks dark gray shale	
1930 - 46	Shale, gray, black, and maroon	
1946 - 57	Limestone, dark gray to resinous brown; dense, fossiliferous	
1957 - 66	Shale, gray	
1966 - 77	Limestone, as above	
1977 - 83	Limestone, light gray to tan, finely crystalline, fossiliferous	Base Lansing
1983 - 2000	Shale, maroon	Top Kansas City Probably Bonner Springs Shale
2000 - 21	Shale, gray, to dark gray	
2021 - 47	Shale as above, streaks sand, dark gray, shaly	
2047 - 2104	Shale gray to greenish, fissile	
2104 - 16	Limestone, dark brown to black, dense, resinous	Kansas City Limestone
2116 - 18	Shale, gray	
2118 - 24	Limestone, light tan, finely crystalline to dense	
2124 - 26	Shale, gray	
2126 - 33	Limestone, as above, some chert, light brown to blue-gray, translucent	
2133 - 35	Shale, gray	
2135 - 48	Limestone, light tan to gray, dense, trace chert, as above	
2148 - 50	Shale, gray	
2150 - 52	Limestone, light gray to white, sucrose to subcrystalline. Some chert, white opaque	
2152 - 57	Limestone, as above, some pin-point porosity	Trace very thick brown oil
2157 - 60	Limestone, white, finely crystalline to dense, trace chert, as above	
2160 - 69	Limestone, as above, some porosity	No show
2169 - 79	Limestone, as above, no porosity	
2179 - 81	Shale, gray	
2181 - 84	Limestone, as above	
2184 - 97	Limestone, light tan, subcrystalline to finely crystalline, trace chert, some porosity	No show
2197 - 2228	Limestone, as above, no porosity. Increase in chert toward bottom	
2228 - 31	Shale, gray	
2231 - 38	Limestone, as above	
2238 - 49	Shale, gray	
2249 - 58	Limestone, brown, dense, finely crystalline	
2258 - 60	Shale, gray	

## (3) Formation Log: Bedell-Catt #1 Owens

<u>Depth</u>	<u>Formation Name</u>	<u>Remarks</u>
2260 - 70	Limestone, as above, possible trace of gray sand	
2270 - 77	Shale, gray and green	
2277 - 80	Shale, black	
2280 - 90	Limestone, tan to gray, sub-crystalline	
2290 - 92	Shale, gray	
2292 - 2309	Limestone, tan to brown, sub-crystalline to dense	Possible base of Kansas City
2309 - 22	Limestone, tan to dark brown, dense. Some chert, white, opaque to translucent	Probable base Kansas City. Possibly Checkerboard
2322 - 38	Shale, gray, brown, trace green, trace shaly sand	Probably Pleasanton 2322-77?
2338 - 40	Limestone, gray to brown, crystalline, flaggy	
2340 - 59	Shale, as above, streaks limestone, as above 2345-50	
2359 - 64	Limestone light tan to pink, dense	Possibly Lenapah?
2364 - 71	Shale, gray and green	
2371 - 77	Sand, green, gray, submedium, angular, silty	Probable base Pleasanton and top Marmaton 2377
2377 - 2418	Shale, green, gray, silty	Handera?
2418 - 28	Limestone, tan to brown, dense	Pawnee 2418-36
2428 - 33	Shale, gray and green, silty	
2433 - 36	Limestone, as above	
2436 - 68	Shale, gray, trace sand, fine, brown to gray	Labette
2468 - 96	Limestone, tan to brown, crystalline to finely crystalline, oolitic and oolitic. Some porosity	Ft. Scott 2486-2536 Possible trace stain?
2496 - 2502	Shale, gray	
2502 - 11	Limestone, as above, no porosity	
2511 - 19	Sand, fine gray, shaly, some black shale	
2519 - 26	Limestone, gray to tan to brown, dense, fossiliferous	
2526 - 30	Shale, black	
2530 - 36	Limestone, as above	
2536 - 43	Sand, fine, gray, shaly	Top Cherokee 2536
2543 - 49	Limestone, gray to brown, dense	Breezy Hill
2549 - 64	Shale, gray and black	
2564 - 93	Shale, as above, streak sand, fine, gray	
2593 - 98	Sand, gray to white, fine, angular	Bevier
2598 - 2624	Shale, gray, silty	
2624 - 31	Limestone, tan to resinous, brown, dense to subcrystalline, fossiliferous	Ardmore
2631 - 40	Shale, gray and black	

(4) Formation Log: Bedell-Catt #1 Owens

<u>Depth</u>	<u>Formation Name</u>	<u>Remarks</u>
2640 - 52	Sand, white to gray, medium, angular, glassy, calcareous	Cattleman
2652 - 95	Shale, gray, possibly some very thin streaks of dense brown limestone	
2695 - 2700	Sand, gray-green, fine, angular, micaceous, shaly	Bartlesville Zone 2695-2736 No show
2700 - 13	Shale, gray, silty	
2713 - 17	Shale with very thin streaks sand, as above	
2717 - 30	Shale, gray, silty	
2730 - 36	Sand, as above	No show
2736 - 42	Shale, gray	
2742 - 50	Limestone, brown crystalline, shaly, crinoidal, streaks green shale	
2750 - 52	Shale, gray and green	
2752 - 59	Sand, gray, fine, quartzitic	Burgess? No show
2759 - 74	Shale, gray, trace maroon shale	
2774 - 82	Chert, white, opaque to translucent, vitreous, figured and spicular. Fair porosity	Mississippi - No show
2782	Total depth	

No cores or drill stem tests were taken on this well.

Ran a Schlumberger electrical survey.

Abandoned 9-18-54.

Samples examined and log compiled by:

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