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FORMATION LOG

WENDELL E. HOHNS

Bedell - Catt #1 Jackson
NE SW NE, 25-25S-8E
Greenwood County, Kansas
Elevation 1393 Derrick Floor
1394 Rotary Bushing

8 5/8" casing 95
4" casing 2444
Comm: 4-27-54
Comp:

NOTE: All measurements are from the top of the rotary bushing.

Depth		Formation Description	Remarks
0	95	Cable tool hole, no log	Drillers log 0 - 1700
95	155	Limestone and shale	
155	670	Shale and limestone	
670	1405	Limestone and shale	
1405	1655	Limestone	
1655	1700	1700 Shale	
1700	1806	Shale, gray	Sample log 1700 TD
1806	13	Limestone, gray to brown, finely crystalline, gray chert	Top Kansas City lime stone, 1806
1813	19	Limestone, white, crystalline some porosity	Possible trace stain
1819	30	Limestone, gray to brown dense	
1830	35	Limestone as above, some fine gray sand	
1835	50	Limestone, brown to tan, finely crystalline, oolitic	
1850	60	Limestone, tan to white, finely crystalline to chalky	
1860	70	Limestone, light tan, finely crystalline, chert, light gray to white, translucent to opaque.	
1870	80	Limestone, as above, no chert	
1880	85	Limestone, light tan finely crystalline to gramular to sucrose. chert gray opaque some vugular porosity	No show
1885	92	Limestone, light brown, finely crystalline, oolitic, fossiliferous. Trace oolicastic porosity.	No show
1892	1912	Limestone tan dense	
1912	19	Limestone, gray to gray-brown dense to finely crystalline	
1919	24	Shale black, some green-gray	
1924	36	Limestone, light tan to white subcrystalline to finely crystalline.	
1936	56	Limestone, as above, light gray	
1956	63	Shale, gray and maroon, variegated	
1963	68	Limestone, tan to brown subcrystalline, chert, gray, opaque, mottled.	
1968	78	Shale, gray, streaks, limestone, resinous, brown, finely crystalline, some oolites.	

(2) Formation Log: Bedell-Catt #1 Jackson

Depth		Formation Description	Remarks
1978	2007	Limestone brown, very oolitic, trace oolicastic porosity	No show, Base Kansas City 2007
2007	75	Shale, green-gray to dark gray. Some thin limestone streaks	
2075	83	Limestone, gray to brown dense to finely crystalline	Altamont
2083	93	Sand, green-gray shaly	
2093	2105	Shale, gray	
2105	23	Limestone, light brown dense to finely crystalline, oolitic and oolicastic porous	No show, Pawnee
2123	45	Shale, green-gray silty	
2145	60	Shale, as above, more silty	
2160	70	Shale, dark gray	
2170	86	Sand, gray, fine, shaly micaceous	Peru
2186	92	Limestone, gray to tan, dense to finely crystalline	Top Ft. Scott 2186
2192	2210	Shale, dark gray, streaks limestone as above	
2210	35	Limestone, tan to brown, resinous, finely crystalline streaks green gray shale.	Base Ft. Scott 2235
2235	40	Shale, black	
2240	47	Limestone, gray to brown-black dense to finely crystalline	Breezy Hill Limestone
2247	52	Sand, light gray, shaly calcareous, micaceous	Prue
2252	2310	Shale, gray to dark gray, some thin limestone streaks	
2310	30	Limestone, gray to brown, dense, many shale streaks. Samples poor.	
2330	42	Sand, white, medium, angular; shale streaks	
2342	50	Streaks, dark brown, finely crystalline limestone.	
2350	58	Shale, gray	
2358	70	Sand, white medium, poorly sorted, silty micaceous	Cattleman zone 2358-85
2370	77	Shale dark gray	
2377	85	Sand, gray, fine calcareous, micaceous	
2385	2430	Shale, gray, dark gray, silty	
2430	42	Shale, green and green-brown sandy; trace fine shaly sand. Brown limonite nodules.	
2442	55	Sand, green-gray to light brown angular. See core record for details	Bartlesville, good odor and oil show cored 2444 - 59
2455	59	Shale, gray to black. Slightly sandy.	
2459		Total depth	
2444		Set 4" casing	

Did not run an electric log or a radioactivity log. Did not take any drill stem test.

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

Core Record:

The following core was taken in the #1 Jackson

Cored:		Recovered 15'
2444	- 59;	
2444	- 50½	Sand, gray to green, to light brown, medium to fine, glassy. Fairly silty, micaceous. Good odor. Bleeding a little oil and gas.
2450½	- 51	Sandy shale, gray to green. Many limonite nodules.
2451	- 55½	Sand as above, possibly slightly more siliceous cement. Slightly more stain and more bleeding of oil
2455½	- 59	Shale, gray to dark gray. Last foot black to gray shale with thin streaks of coal. Trace of sand in last two inches.

Completion Data:

Plugged back from 2459 to 2454,
Cleaned out hole to 2454
Had 500 feet free oil in hole

Tried to break formation down with oil. Would not break at 2000 pounds, of pressure.

Ran tubing on a packer
Pumped in 150 gallons of M.C.A.
Fractured formation with 10,000 pounds sand.
Started into formation at 2100 pounds. Fed at that pressure never did break down.

Flowed back about 50 bbls. oil
Swabbed back remainder of load at about 8 barrels oil per hour
After swabbing back load, oil stood at 500' from bottom of hole.

Put on pump.
Started pumping 30 barrels oil per day with some water. Dropped steadily until it was making from 7 to 9 barrels oil per day in two months.

Samples examined and log compiled
By Wendell S. Johns

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TIME LOG

WENDELL S. JOHNS

Bedell-Catt #1 Jackson
NE SW NE; 25-25S-8E
Greenwood County, Kansas
Elevation: 1393 Derrick Floor

Note: All measurements are from rotary bushing:

Depth	Time	Remarks
1700 - 10	2-3-2-2-2-1-2-2-2-2-3	
20	2-2-2-1-3-2-2-2-2-2	
30	2-3-2-2-2-2-3-x-2-3	
40	2-2-2-2-2-2-2-1-2-3	
50	2-3-2-2-2-2-3-3-2-2	
60	2-3-2-2-3-2-3-2-x-2	
70	2-2-2-3-2-2-2-3-3-2	
80	2-3-2-3-2-2-2-3-2-2	
90	2-2-3-2-2-2-2-2-2-3	
1790 - 1800	x-2-2-2-2-2-2-2-2-2	
1800 - 10	2-3-2-2-1-2-7-7-7-5	
20	7-7-6-3-2-2½-2½-3-4-9	Top Kansas City 1806
30	8-x-6-7-8-7-6-4-3-4	
40	4-3-4-4-7-4-5-5-4-9	
50	9-8-8-5-6-7-5-5-5-5	
60	5-7-x-5-6-6-7-6-7-8	
70	11-11-10-8-7-8-9-12-13-11	Trip 1870 O.S.C.
80	7-7-6-4-5-5-6-5-5-5	
90	5-5-5-5-5-4-3-2-2-3	
1890 - 1900	4-4-5-5-6-6-6-6-7-6	
1900 - 10	6-6-6-6-6-6-6-7-7-7	
20	6-8-6-5-5-x-5-5-5-4	
30	4-4-4-4-5-5-5-5-5-5	
40	5-5-5-5-5-5-4-3-4-4	
50	5-6-6-4-4-5-x-7-4-5	
60	4-6-6-7-6-8-7-6-5-5	
70	4-4-3-3-3-3-3-3-5-4	
80	4-4-6-2-5-3-4-5-x-3	
90	3-4-4-4-5-3-5-3-3-3	
1990 - 2000	4-3-4-4-3-3-3-2-3-3	
2000 - 10	2-2-3-3-2-3-3-4-4-x	
20	2-2-3-3-3-3-2-3-2-3	
30	2-2-3-3-2-2-3-3-2-3	
40	2-3-2-3-2-3-2-3-2-3	
50	x-2-2-3-2-2-3-2-5-5	
60	2-5-3-2-3-3-3-3-3-3	
70	3-2-3-3-3-5-4-4-4-2	
80	3-3-x-4-3-5-5-5-8-8	Altamont 2075
90	9-6-6-5-4-5-4-5-6-4	
2090 - 2100	5-5-4-6-6-7-5-6-5-5	
2100 - 10	5-5-5-x-7-5-5-6-4-5	Pawnee 2105
20	9-4-5-7-8-6-9-9-10-12	
30	10-6-11-6-6-6-5-5-5-5	

(2) Time Log: Bedell-Catt #1 Jackson

Depth	Time	Remarks
2130 - 40	5-5-5-5-x-4-5-5-5-5	Trip 2140 O.S.C.
50	5-5-5-4-3-2-2-2-2-3	
60	2-2-3-3-3-3-2-3-3-3	
70	3-3-3-3-3-3-3-3-x-3	
80	3-3-3-3-3-4-3-3-3-3	
90	3-2-3-3-3-3-5-7-6-5	Ft. Scott 2186
2190 - 2200	5-3-4-4-4-3-5-5-5-x	
2200 - 10	5-5-5-5-4-4-4-3-4-5	
20	3-3-4-5-4-3-3-3-4-4	
30	4-5-5-5-18-5-4-4-4-5	
40	5-5-4-4-5-5-5-4-4-2	
50	2-3-3-5-6-6-4-3-3-2	
60	3-3-3-3-3-3-2-3-3-3	
70	3-3-x-2-4-3-3-4-3-4	
80	3-4-3-3-3-2-3-2-3-2	
90	3-3-3-2-2-3-3-3-4-6	
2290 - 2300	3-3-3-x-3-4-3-5-3-3	
2300 - 10	3-3-3-3-3-4-3-3-4-3	
20	3-2-3-2-3-2-2-2-2-3	
30	3-2-2-3-3-2-3-3-3-3	
40	2-4-4-4-4-4-4-4-4-3	
50	4-4-5-3-3-3-4-3-3-2	
60	4-5-3-4-3-3-x-4-5-6	
70	4-5-4-4-6-5-4-6-5-3	
80	5-3-7-4-3-3-5-6-6-4	
90	5-5-5-5-5-6-5-x-6-5	
2390 - 2400	5-5-6-5-6-5-5-5-5-5	
2400 - 10	6-9-4-5-4-5-6-5-4-4	
20	7-7-6-6-6-5-8-5-7-x	
30	7-7-8-7-6-6-6-6-7-7	
40	10-8-7-10-8-10-10-8-7-9	
50	9-10-3-2-5-2-2-2-2-2½	Top Bartlesville 2442 Circ. 2444 45 min.
60	4½-2-2-2½-2-11½-22-11-7½	Diamond Cored 2444-59 T.D. 2459 Finished Coring 8:18½ A.M. 5-3-54 Set 4 1/2" @ 2445 Did not run electric log