

Computer inventoried

WENDELL S. JOHNS

Formation Log

Badell-Cott #1 Johnson "A"
Approx: NE NE NW (300' S of NL NW
500 W of HL)
26-26S-12E
Greenwood County, Kansas
Elevation: 1141 Derrick Floor
1142 Kelly Bushing

8 5/8" casing 69'
4 1/2" casing 2117
Conn: 4-4-55
Comp:

Note: All measurements are from the top of the Kelly Bushing.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 05	Top Soil	Drillers log
05 - 09	Shale	0 - 1100
09 - 25	Limestone	
25 - 71	Shale	
71 - 475	Shale and limestone	
475 - 730	Limestone and shale	
730 - 865	Shale and shells	
865 - 1024	Shale and limestone	Approximate to Kansas City limestone 961 (by correlation)
1024 - 1100	Limestone with shale streaks	
1100 - 03	Limestone gray to tan finely crystalline	Sample log 1100 - T.O.
1103 - 06	Shale green	
1106 - 12	Limestone light tan, finely crystalline, possibly some porosity	Possible trace stain
1112 - 15	Shale black	
1115 - 27	Limestone, white to tan, finely crystalline to subcrystalline	
1127 - 32	Shale, brown and gray	
1132 - 41	Limestone, light brown to tan dense	Base Kansas City 1141
1141 - 53	Shale, gray to dark gray	
1153 - 85	Limestone, dark gray brown shaly; some brown to tan finely crystalline	Checkerboard
1185 - 1240	Shale dark gray silty, some green shale with trace fine shaly sand near bottom	

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Formation Log
Bedall-Catt #1 Johnson "A"

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
1240 - 44	Limestone light brown dense	Altamont 1140 - 52
1244 - 48	Shale, gray	
1248 - 52	Limestone white to light tan dense to finely crystalline	
1252 - 70	Shale, gray-green, slightly sandy	
1270 - 82	Limestone tan dense to sub-crystalline	Faunee
1282 - 1300	Sand fine, gray, micaceous, very silty	Peru 1282 - 1344 Slight oil stain in top part
1300 - 44	Sand, submedium, angular, gray to brown	
1344 - 48	Limestone brown, finely crystalline	Ft. Scott 1344- 1414
1348 - 54	Shale, gray	
1354 - 70	Limestone light tan, dense	
1370 - 76	Shale, gray	
1376 - 84	Limestone as above	
1384 - 98	Shale, black to gray with thin streaks limestone, cream to tan finely crystalline	
1398 - 1414	Limestone as above. Trace light brown, translucent chert.	
1414 - 29	Shale, soft, black; trace coal	Breaky Hill Zone 1414 - 32
1429 - 32	Limestone, dark gray brown dense	
1432 - 86	Shale, gray, trace fine gray shaly sand	
1486 - 98	Sand, brown, fine angular, shale streaks	Possible trace oil stain at bottom Beaver sand
1498 - 1522	Shale, green-gray; much fine green siltstone	
1522 - 29	Limestone, tan subcrystalline, fossiliferous. Streak coal at bottom	Ardmore
1529 - 70	Shale, gray-green	
1570 - 80	Shale, black	
1580 - 1610	Shale, green-gray, some green siltstone	
1610 - 27	Shale, gray, green-gray, trace brown	
1627 - 33	Shale, dark gray to black	
1633 - 44	Shale, as above	

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
1644 - 62	Sand, very fine, gray, and shaly micaceous muddy. No porosity	Bertlesville, no show.
1662 - 1700	Shale, gray, green-gray, brown silty; some black	
1700 - 24	Shale, black to dark gray, streaks fine shaly sand, gray some coal	No show
1724 - 62	Dolomite, very finely sucrose and shaly. Trace glauconite. Trace light green, leached shale at bottom	Top Mississippi 1724 Cowley formation
1762 - 69	Limestone, brown to light tan, dense to finely crystalline, very oolitic large rounded, oolites, some free, some chert blue-white translucent. Fair porosity	Possibly Maresac. Stain of heavy black oil. No odor
1769 - 76	Lime, gray to light brown, some porosity in limestone. Chert gray and white translucent. Some porosity 1772 - 75	Gauge. Fair show free brown oil. No odor
1776 - 1800	Chert, white to gray, opaque, to translucent, figured, calcareous. Much white devitrified, porous chert. Increases in blue-gray opaque to semi-translucent vitreous chert.	Very slight show free oil in porous chert. D.S.T. 1763-90
1800 - 20	Chert as above increases in vitreous chert	
1820 - 56	Dolomite, finely crystalline, tan to light brown; chert blue-gray to dark gray, opaque, vitreous.	
1856 - 63	Chert and dolomite as above streaks green-gray shale.	
1863 - 79	Limestone, light gray, subcrystalline. Some light gray finely sucrose dolomite. Chert as above	
1879 - 83	Dolomite, tan to light brown, soft, finely crystalline, possibly some porosity, very much blue-gray opaque chert.	No show

Formation Log
BeSall-Catt #1 Johnson "A"

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
1883 - 88	Streaks dark gray and black shale.	
1888 - 1906	Chert and limestone as above, some dolomite as above	
1906 - 07	Shale, gray	
1907 - 42	Limestone, gray, subcrystalline to dense, less chert-blue to gray, vitreous opaque	
1942 - 63	Dolomite, white to greenish white, finely sucrose. Chert white to amber translucent. Some white devitrified. Darker green-gray dolomite at bottom.	
1963 - 70	Limestone light gray to green-gray dense, some chert as above	
1970 - 83	Limestone as above, some green dense shaly limestone and green calcareous shale. Possibly thin shale streaks gray green and black	
1983 - 2000	Shale, gray-green, trace brown. Trace light green, leached sandy shale.	Top Kinderhook 1983
2000 - 05	Limestone, white to light gray, chalky to finely crystalline, crinoidal	
2005 - 14	Shale, dark gray to brown black.	Top Chattanooga 2005 Oily odor throughout Chattanooga
2014 - 17	Limestone green-gray dense	
2017 - 45	Shale, brown black, soft, micaceous. Some black spores at bottom	
2045 - 46	Sand white, quartzitic, pyritic, glauconitic	Misener, no show
2046 - 50	Dolomite, gray to gray brown, finely crystalline, porous. Chert blue-white vitreous translucent.	Top Arbuckle 2046 Very slight trace stain at very top. No odor
2050 - 57	Dolomite, light brown, coarsely crystalline, massive. Some vugular porosity	No show
2057 - 64	Dolomite darker brown, crystalline to coarsely crystalline, rhombohedral, much tripolitic cement. Vugular porosity. Dolomite, finer crystalline, drusy quartz and white oolitic chert near bottom.	No show

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
2064 - 67	Dolomite, red, increase in oolitic chert	
2067 - 73	Dolomite, brown to gray, finely crystalline	
2073 - 99	Dolomite, light tan to light gray, finely crystalline to sucrose. Slightly sandy good vugular porosity. Much chert, white translucent to glassy. Much white, opaque., devitrified to semi-vitreous.	No show
2099 - 2118	Dolomite, brown to dark brown, coarsely crystalline. Massive to rhombohedral. Some chert white vitreous, opaque. Fair vugular porosity.	No show
2118 - 42	Dolomite, light tan to light gray, finely crystalline to finely sucrose, chert white vitreous opaque.	
2142 - 44	Shale, light green, sandy	
2144 - 64	Dolomite tan to light brown, finely crystalline to crystalline, good vugular porosity, less chert, some chert, dove gray opaque oolitic	No show
2164 - 70	Dolomite light tan, finely crystalline to finely sucrose, very little porosity or chert.	
2170 - 74	Dolomite, tan sucrose, sandy	
2174 - 85	Dolomite brown, crystalline, good vugular porosity	No show
2185 - 97	Dolomite, tan finely crystalline to sucrose, less, porosity, Trace chert.	No show
2197 - 2214	Dolomite as above, much chert, blue-gray opaque. Possibly some porosity.	No show
2214	Total Depth	

Will complete well as a salt water disposal well.

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Formation Log
Badell- Catt #1 Johnson "A"

Took no cores on this well and did not run an electric log.

One drill stem test was run on the #1 Johnson "A"

Drill Stem Test Data:

Mississippi:

1763 - 90

Open 1 1/2 hours

Good blow throughout test

Gas to surface in 50 minutes

Recovered 155' slightly oil and gas cut mud

390' slightly oil and gas cut salt water

Initial flow pressure 30 lbs. PSI

Final flow pressure 280 lbs. PSI

Bottom hole pressure 560 lbs. PSI (Shut in 20 minutes)

Samples examined and log compiled

by

Wendell S. Johns