

Completed by [unclear]

WENDELL S. JOHNS

FORMATION LOG

J. J. Hall #6 W. E. Smith "A"
1305' from North line, 990' from West line of
NE 1/4 14-12S-16E
Ellis County, Kansas
Elevation 1869 Derrick floor

10 3/4" - 1002'
5 1/2" ~~5/8"~~ - 3365'

Commenced: 12/21/48
Completed:

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

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 70	Surface clay	Drillers log 0 - 2700
70 - 650	Sand and shale	
650 - 810	shale and red bed	
810 - 1011	Red bed	
1011 - 1055	Anhydrite	Stone Corral 1011-1055
1055 - 1330	Shale	
1330 - 1460	Shale and Shells	
1360 - 1395	Salt and Shale	
1395 - 1430	Salt	
1430 - 1575	Salt and Shale	
1575 - 1670	Shale and Shells	
1670 - 1905	Shale and limestone	
1905 - 1970	Shale and Shells	
1970 - 1985	Limestone	
1985 - 2040	Limestone and Shale	
2040 - 2255	Shale and Shells	
2255 - 2340	Limestone and Shale	
2340 - 2425	Shale and shells	
2425 - 2700	Limestone and Shale	

Sample Log 2700 - TD:

2700 - 17	Streaks dark gray and brown limestone and gray and brown shale, trace sand	
2717 - 2728	Sand, brown to black	Saturated with dead black oil
2728 - 2750	Gray silty shale	
2750 - 2773	Limestone, light tan, to nearly white, finely crystalline to crystalline	Top Topeka 2750
2773 - 2790	Limestone, gray sub-crystalline	
2790 - 2808	Limestone, gray dense	
2808 - 2812	Limestone, finely sucrose, brown	Some stain
2812 - 2844	Limestone, tan to light brown, finely crystalline, some chert, gray and tan opaque	
2844 - 2849	Shale, brown	
2849 - 2870	Limestone, tan, finely crystalline	
2870 - 2880	Limestone, as above, and gray and brown shale	
2880 - 2882	Shale, black	
2882 - 2902	Limestone and shale, as above	
2902 - 2935	Limestone, white to gray, dense to sub-crystalline	

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
2935 - 2938	Shale, brown	
2938 - 2965	Limestone, brown, dense	
2965 - 2968	Limestone, brown, sucrose, fair porosity	Fair saturation
2968 - 2999	Lime, tan to gray-brown, sub-crystalline to dense	
2999 - 3005	Limestone, light tan, finely crystalline, some porosity	Good saturation
3005 - 3011	Limestone, as above, no porosity, some gray opaque, fossiliferous chert	
3011 - 3015	Shale, brown	
3015 - 3025	Limestone as above	
3025 - 3029	Shale, soft, black	Heebner 3025 - 29
3029 - 3033	Limestone as above	
3033 - 3036	Shale, brown	
3036 - 3040	Limestone gray, dense, some black oolites	
3040 - 3045	Limestone, brown	
3045 - 3060	Limestone, white, crystalline, fair porosity and stain 3047 - 52	Dodge 3045 - 60 Fair stain
3060 - 3069	Shale, green and brown, trace shaly sand	
3069 - 3074	Limestone tan, dense to sub-crystalline, some fusulinid, streaks porosity and stain	Top Lansing 3069 Streaks stain
3074 - 3095	Limestone, as above, nearly white, some gray translucent chert	
3095 - 3098	Limestone, brown, sub-crystalline to sucrose, trace porosity	Trace stain
3098 - 3118	Limestone, light tan sub-crystalline, much white chert, silky opaque to translucent, some oolitic	
3118 - 3130	Limestone, white to tan, coarsely oolitic, some oolitic porosity	Fair spotted stain and odor
3130 - 3140	Limestone, white, crystalline	
3140 - 3145	Limestone and brown shale	
3145 - 3150	Limestone, tan to brown, dense to finely crystalline, chert gray & brown, translucent to opaque, devitrified, oolitic	
3150 - 3163	Limestone and brown shale	
3163 - 3172	Limestone, white to tan, finely crystalline	
3172 - 3177	Limestone, tan to brown, sucrose oolitic and oolitic, good porosity	No odor, fair spotted stain, looks like water
3177 - 3200	Limestone, light gray to tan dense	
3200 - 3207	Limestone, dark gray to dark brown, dense, chert dark blue-gray spicular	
3207 - 3213	Limestone, light green-gray, dense, trace vugular porosity, trace oolites & oolitic, trace porosity	Trace spotted stain

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3213 - 3227	Limestone, light brown to white, dense much chert, light gray, opaque to translucent	
3227 - 3240	Limestone as above, no chert, streaks brown shale	
3240 - 3276	Limestone, as above, no shale, some white opaque oolitic chert at bottom	
3276 - 3288	Shale, gray and brown, with limestone streaks	
3288 - 3290	Limestone, tan to brown, dense	
3290 - 3298	Limestone as above, trace finely vugular (No odor, trace free oil porosity in thin streaks)	
3298 - 3300	Limestone as above, no porosity	
3300 - 3309	Shale, gray and brown, streaks of limestone	
3309 - 3318	Limestone, white to tan, finely crystalline, trace oolites	Base Kansas City 3318
3318 - 3330	Shale, gray and brown, streaks limestone	Marmaton 3318-3353
3330 - 3340	Much brown shale, trace red-brown weathered limestone	
3340 - 3350	Limestone, white to tan crystalline to dense no apparent porosity	Slight trace spotted stain
3350 - 3353	Shale, green and brown, trace white opaque chert, some oolitic chert. Probably trace of Conglomerate (less than 1')	
3353 - 3360	Dolomite brown, finely crystalline, some porosity	Top Arbuckle 3353 Fair to good stain
3360 - 3365	Dolomite as above, much chert, white, opaque to translucent, trace oolitic chert	Good odor
3365	TOTAL DEPTH	
3364	Set 5 1/2" casing	

Samples examined and log compiled by Wendell S. Johns

TIME LOG

WENDELL S. JOHNS

J. J. Hall #6 W. E. Smith "A"
 1305' from North Line; 990' from
 West Line, all in NE 1/4
 14-12S-16W, Ellis County, Kansas
 Elevation: 1869 Derrick floor

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

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
	Time log starts at 2700'	
2700 - 10	4-3-3-3-5-5-5-3-3-3	
20	3-3-3-3-6-6-3-3-3-2	
30	2-1-1-1-2-2-2-1-2-3	
40	3-3-4-3-2-4-3-4-5-4	
50	4-4-4-4-5-4-5-4-3-4	Top Topeka 2750
60	4-7-9-3-4-3-4-2-4-6	
70	4-4-4-4-5-3-4-7-4-3	
80	3-4-3-6-7-6-8-6-5-6	
90	6-7-6-5-4-4-4-5-5-4	
90 - 2800	7-7-6-5-8-5-4-4-4-3	
2800 - 10	3-3-6-5-4-3-6-5-2-3	
20	2-4-7-6-5-9-6-11-8-7	
30	4-8-4-5-10-8-7-5-5-5	
40	5-6-6-8-8-7-8-11-10-10	
50	8-8-7-7-5-4-4-4-3-6	
60	7-7-8-8-10-8-6-9-8-7	
70	10-9-8-10-8-8-9-10-11-6	
80	9-8-6-7-7-7-8-6-8-6	
90	5-5-5-8-7-7-6-7-5-7	
90 - 2900	10-9-5-6-8-8-8-4-7-7	
2900 - 10	6-5-8-11-10-10-10-7-10-8	
20	7-6-9-9-10-10-8-8-7-8	
30	5-13-14-8-8-8-11-11-8-10	Trip # 2923
40	8-10-5-5-5-3-2-3-8-8	
50	7-6-7-7-8-7-6-6-5-6	
60	9-5-6-6-7-7-8-7-4-7	
70	6-5-7-5-5-1-2-3-4-8	
80	8-7-7-8-10-9-9-9-8-9	
90	8-7-6-6-4-8-8-7-3-3	
90 - 3000	3-8-8-6-4-5-6-5-5-3	
3000 - 10	3-3-4-4-4-5-7-7-7-6	
20	4-3-3-2-4-6-6-7-7-6	
30	7-6-6-6-8-6-3-3-3-10	Top Heebner 3025
40	13-12-9-5-4-5-6-7-9-7	
50	6-6-6-7-7-9-8-6-4-3	Top Dodge 3055
60	3-5-10-11-11-8-15-13-10-11	
70	8-8-9-7-6-7-7-6-7-5	Top Lansing 3069
80	4-10-6-5-8-8-8-7-11-11	
90	10-7-9-8-8-7-9-10-6-8	
90 - 3100	8-10-7-11-11-8-6-7-9-9	

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3100 - 10	8-9-8-8-9-10-11-9-12-9	
20	10-9-14-17-10-8-9-6-8-8	Trip # 3114 CP-EM
30	7-7-7-11-7-7-7-7-7-7	
40	10-7-8-8-8-10-10-9-8-5	Slight odor # 3135
50	4-10-5-10-5-12-8-8-9-12	
60	8-5-6-7-7-5-5-5-5-9	
70	6-6-7-9-11-11-11-11-7-5	
80	10-6-3-1-2-5-5-11-8-10	
90	10-11-9-10-10-9-11-12-12-11	
90 - 3200	9-14-13-12-12-11-12-10-11-12	
3200 - 10	11-10-11-9-7-12-12-7-6-7	
20	7-4-5-7-9-9-7-9-12-9	
30	11-12-13-13-11-9-15-12-8-5	
40	10-11-11-8-10-10-10-9-11-9	
50	8-12-15-13-12-11-8-8-8-7	
60	8-10-10-10-8-8-9-10-12-12	
70	13-13-14-13-12-13-12-14-15-12	Trip # 3269 OHS
80	9-9-7-7-11-8-6-6-6-6	Circ. ½ hr for samp. # 3280
90	4-5-5-4-5-5-6-6-7-8	
90 - 3300	7-7-8-6-6-8-7-8-10-8	Circ. ½ hr. for samp. # 3290
3300 - 10	6-6-7-5-5-7-10-5-7-8	
20	9-8-8-6-8-8-8-8-6-6	
30	6-6-7-6-6-5-7-5-7-6	
40	7-7-7-5-6-7-6-7-8-5	Circ. 50 min. # 3340
50	6-8-6-7-6-9-8-8-10-9	Circ. for samp. 1 hr # 3350
60	6-7-7-5-4-2-5-5-6-5	Circ. for samp. 1½ hr. # 3355
65	5-4-3½-4½-4	Slight odor # 3356
		Circ. for samp. 1½ hr # 3360
		Slight odor # 3361
		Circ. for samp. 1½ hr # 3365
		TD 3365
		Set 5½" casing 3365

Time log condensed by Wendell S. Johns