

Computer Inventoried

Herndon #1 Monroe
 NW/NW/NW; 5-18S-13W
 Barton County, Kansas
 Elevation: 1835 Derrick floor

13 3/8" surface casing; 88'; 100 sacks
 8 5/8" 778'; 400 sacks
 5 1/2" 3307'; 200 sacks

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

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 190	No log	Drillers log 0 - 2650
190 - 350	Shale & pyrite	
350 - 390	Sand	
390 - 770	Shale & shells	
770 - 820	Anhydrite	Stone Corral
820 - 1410	Shale & shells	
1410 - 1700	Shale & limestone	
1700 - 2215	Limestone & shale	
2215 - 2340	Shale & limestone	
2340 - 2443	Limestone & shale	
2443 - 2650	Shale & shells	
2650 - 2691	Shale, gray; streaks gray-brown, sub-crystalline limestone; possible trace fine gray siltstone	Sample log starts 2650
2691 - 2700	Limestone, dark gray to brown-gray, dense to sub-crystalline	Topeka
2700 - 2709	Limestone, gray-brown to tan, sub-crystalline to dense	
2709 - 2711	Shale, gray & brown	
2711 - 2717	Limestone, gray to gray-brown, sub-crystalline	
2717 - 2724	Limestone, tan to brown, finely crystalline to sub-crystalline	
2724 - 2738	Limestone, gray & brown mottled, finely crystalline	
2738 - 2740	Streaks gray & brown shale	
2740 - 2758	Limestone, dark gray to brown-gray dense	
2758 - 2772	Limestone, light tan, sub-crystalline	Trace porosity, no show
2772 - 2784	Limestone, gray to brown-gray, dense	
2784 - 2796	Limestone, dark gray, dense	
2796 - 2804	Limestone, as above; chert, black opaque	
2804 - 2812	Limestone, tan, soft, sucrose to finely crystalline; chert, fossiliferous, gray, opaque.	Some porosity, no stain
2812 - 2821	Limestone, tan to gray, sub-crystalline; some chert	
2821 - 2829	Limestone, gray-brown, finely crystalline; streaks dark gray shale	
2829 - 2860	Limestone, brown to tan, finely crystalline; trace gray, opaque chert	
2860 - 2863	Limestone, gray, sub-crystalline to dense	
2863 - 2869	Shale, gray	
2869 - 2879	Limestone, light tan to white, dense, lithographic	
2879 - 2886	Limestone, tan to brown, finely crystalline; crypto-colitic to colitic, fossiliferous	
2886 - 2920	Limestone, dirty gray-brown, finely crystalline; chert, dirty gray opaque, partly	

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
2920 - 2933	Limestone, gray, finely crystalline; gray shale streaks	
2933 - 2940	Limestone, tan, oolitic, crystalline	Some porosity
2940 - 2954	Limestone, tan to brown, sub-crystalline to finely crystalline, much dirty brown-gray chert opaque, non-vitreous, fossiliferous.	
2954 - 2963	Limestone, light tan to light brown, sub-crystalline to finely crystalline; trace chert	Fair oolitic porosity; possible trace stain.
2963 - 2967	Limestone, light tan to brown, sub-crystalline to dense	
2967 - 2990	Limestone, as above, very much dark gray opaque chert, non-vitreous.	
2990 - 2998	Limestone, tan to gray, mottled finely crystalline to dense	
2998 - 3002	Shale, dark gray to gray-green; some black shale	
3002 - 3009	Limestone, tan to gray, finely crystalline to dense; chert, gray, opaque, trace oolites.	Some vug; possible trace stain
3009 - 3015	Shale, black, fissile	
3015 - 3018	Limestone, brown, to gray, medium crystalline to dense	
3018 - 3025	Shale, brown, gray and green	
3025 - 3038	Limestone, very white, pure, finely crystalline to dense	Dodge; spotted stain
3038 - 3070	Shale, brown to gray-green; trace gray siltstone; sand, dark gray, micaceous medium grained, shaly	Base Oread 3038
3070 - 3090	Shale, dark gray; streaks gray sand	
3090 - 3095	Limestone, dark gray-brown to brown, medium crystalline to sub-crystalline.	
3095 - 3103	Shale, gray	
3103 - 3106	Limestone, white to tan, sub-crystalline to finely crystalline, fairly hard.	Lensing
3106 - 3110	Limestone, tan to white, cherty, finely crystalline to sub-crystalline	Fair show free oil, slightly vuggy, fair porosity; slight odor.
3110 - 3119	Limestone, as above	
3119 - 3121	Limestone, tan, gray & white, sub-crystalline; some white oolitic chert.	Fair vugular porosity, slight staining
3121 - 3137	Limestone, tan to gray, sub-crystalline to dense; possible streaks gray & brown shale; some limestone, finely crystalline gray to tan, at bottom; trace white opaque chert.	
3137 - 3143	Shale, gray and brown.	
3143 - 3148	Limestone, gray, finely crystalline to crystalline	
3148 - 3151	Limestone, as above, some vugular porosity	Fair dark stain, trace free oil; slight odor
3151 - 3158	Limestone, brown, finely crystalline	
3158 - 3160	Shale, gray	
3160 - 3162	Limestone, as above	
3162 - 3176	Limestone, light brown, finely crystalline finely oolite porosity	Some oil stain, no free oil

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3176 - 3182	Limestone, light tan, finely crystalline to dense	
3182 - 3193	Limestone, tan, finely crystalline to sub-crystalline, oolitic, slightly oolitic, slight porosity	Trace free oil; no odor
3193 - 3196	Limestone, tan, dense	
3196 - 3198	Shale, black	
3198 - 3208	Limestone, tan, dense, some fractures filled with black oil residue	
3208 - 3220	Limestone, tan-gray, finely crystalline to crystalline, replaced oolites	
3220 - 3231	Limestone, dark brown, dense, some gray limestone	
3231 - 3232	Shale, black	
3232 - 3235	Limestone, as above	
3235 - 3237	Shale, gray	
3237 - 3243	Limestone, as above	
3243 - 3245	Shale, gray	
3245 - 3247	Limestone, as above	
3247 - 3267	Limestone, light tan, finely crystalline, some oolites. Streaks of good inter-oolite & vugular porosity	Fair stain & odor
3267 - 3276	Shale, brown & green	
3276 - 3285	Limestone, dark brown, dense, some gray dense, some fracture porosity, some black oil residue in fractures	
3285 - 3291	Shale, brown and gray	
3291 - 3302	Limestone, as above, some oolite casts, trace oolitic & vugular porosity	Kelley correction 3322 = 3323 All tops below 3300 are corrected
3302 - 3303	Chert, white & brown, opaque to translucent	Conglomerate
3303 - 3311	Dolomite, light tan to light brown, very finely sacrose to finely crystalline; some white vitreous chert translucent to opaque; trace porosity	Top Arbuckle; fair odor & slight show free oil
3311 - 3317	Dolomite, white, coarsely crystalline, fair porosity	Good odor; fair show free oil
3317 - 3320	Dolomite, as above—less porosity	
3320 - 3323	Dolomite as above, increase in porosity	Good odor; some show of free oil
3323	Rotary total depth.	

Drill stem tests:

(1) 3105 - 22; open 30 minutes; slight blow for three minutes recovered 6' mud—no oil, gas, or water
bottom hole pressure = 0

(2) 3247 - 94; open 1 hour—good blow throughout test
recovered 15' well oil cut mud
bottom hole pressure = 0

Samples run and log compiled by Wendell S. Johns.

T I M E L O G

WENDELL S. JOHNS

Herndon #1 Monroe
 NW/NW/NW; 5-18s- 13W
 Barton County, Kansas
 Elevation: 1835 Derrick floor

Note: All measurements are from the top of the rotary bushing which is 3 feet above the derrick floor.

1' time log starts 2650'

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
2650 - 60	2-3-3-3-4-3-4-6-4-2	
70	2-2-2-2-2-3-2-2-3-3	
80	2-3-2-2-3-2-2-3-2-2	
90	1-2-4-4-3-2-2-3-2-3	
2690 - 2700	3-5-6-4-4-5-3-4-3-3	Topeka 2691
2700 - 10	3-6-5-4-4-6-5-5-4-2	
20	2-3-4-5-3-3-3-4-4-5	
30	5-4-4-4-6-5-4-5-6-6	
40	5-5-5-4-6-4-5-4-3-6	
50	6-6-5-5-5-5-4-5-5-6	
60	6-7-5-5-5-6-6-7-5-5	
70	5-4-4-4-3-3-3-4-4-4	
80	3-4-6-7-8-5-5-5-8-8	
90	7-6-7-8-6-5-5-5-5-6	
90 - 2800	5-5-5-6-5-5-6-7-8-7	
2800 - 10	8-7-7-6-4-3-5-5-4-3	
20	3-3-6-6-8-8-8-10-9-9	Trip 2820
30	4-3-3-4-3-4-3-3-3-4-	
40	6-5-5-5-4-5-5-3-3-4	
50	4-4-4-4-4-4-4-3-3-4-5	
60	4-4-4-3-4-4-4-3-3-3	
70	5-6-4-4-3-3-3-4-3-5	
80	5-5-6-4-4-5-5-5-6-4	
90	3-4-3-3-3-3-4-4-5-3	
90 - 2900	3-3-5-5-5-3-4-5-4-4	
2900 - 10	5-6-7-6-6-5-5-7-5-6	
20	7-5-6-5-5-4-5-7-7-7	
30	6-5-6-6-7-6-5-5-5-5	
40	6-7-6-4-4-3-4-5-4-4	
50	5-5-6-8-7-7-6-7-7-6	
60	6-7-7-7-5-5-5-5-4-3	
70	4-5-5-7-7-7-8-7-6-6	
80	6-5-6-4-5-5-5-6-6-7	
90	8-6-6-8-7-6-6-8-5-8	
90 - 3000	16-12-17-6-6-6-5-4-4-3	Trip 2993
3000 - 10	3-3-5-6-4-5-5-6-5-4	Heebner 3009
20	4-4-3-2-5-8-5-4-4-4	
30	5-4-5-4-3-4-4-5-5-6	Dodge 3025
40	6-7-7-5-5-5-5-5-3-3	Base Oread 3038
50	4-3-4-4-4-4-5-4-4-6	
60	6-4-3-4-5-5-5-5-5-4	
70	4-5-5-5-5-5-5-5-5-5	
80	4-4-5-5-4-3-3-4-4-3	
90	3-4-4-3-4-4-3-4-4-4	Brown Lansing 3090
90 - 3100	5-6-6-6-5-4-6-4-4-5	

(2) Time log; #1 Monroe

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3100 - 10	5-6-5-7-4-4-4-7-7-3	Lansing 3103 Kelley Corr. 3107=3109
20	5-5-3-6-1-5-5-5-5-4	
30	4-5-8-8-6-7-7-9-7-7	Circ. 3/4 hr. @ 3122
40	8-11-11-10-7-11-11-7-7-7	
50	7-8-8-10-8-11-10-12-7-6	
60	8-10-9-11-11-7-9-9-6-6	
70	7-9-8-6-5-5-5-5-4-4	
80	4-3-4-5-4-4-6-6-7-7	
90	9-8-7-6-4-3-3-6-5-5	
90 - 3200	6-1-5-7-7-7-5-3-7-6	
3200 - 10	8-6-6-6-1-5-5-6-6-7	Circ. for 30 min. @ 3203
20	6-7-6-5-7-6-6-5-6-7	Circ. for 30 min. @ 3211
30	5-5-6-6-6-6-6-6-6-6	
40	6-5-7-7-7-5-5-7-7-6	
50	6-6-7-5-5-6-7-3-4-3	Circ. for 30 min. @ 3247
60	4-4-3-4-4-3-3-4-3-4	Trip 3247
70	4-3-4-4-3-3-3-2-3-2	
80	2-2-3-4-2-3-4-4-4-4	
90	5-5-5-5-5-3-3-2-4-4	
90 - 3300	3-5-5-4-5-6-6-6-5-5	Circ. for 30 min. @ 3294
3300 - 10	6-4-6-5-5-5-6-5-6	Conglomerate 3001
20	5-4-5-4-7-4-6-6-6-5	Arbuckle 3302; Rough 3310
22	4-4	Rough 3311 - 12
		SR 3312 - 13
		Circ. for 30 min. @ 3313
		Rough 3317
		H.T.D. 3322
		Kelley Corr. 3322 = 3323

Time log condensed by Wendell S. Johns.