

Shawver and Graham #1 Mettscher  
Approximately SE NE ~~NE~~ 13-22S-13W  
Stafford County, Kansas  
Elevation : 1891 Derrick Floor

Commenced: 4-18-49  
Completed: 5-3-49  
8 5/8" casing - 350 + 255  
5 1/2" casing - ~~348~~ 3673

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

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0- 255	Sand and shale	drillers log
255- 760	shale and red rock	0 - 3200
760-1230	shale and shells	
1230-1570	shale and limestone	
1570-1785	limestone	
1785-1905	limestone and shale	
1905-2040	limestone, broken	
2040-3200	limestone and shale	
3200- 05	black shale (Heebner)	sample log
3205- 38	limestone with shale streaks	3200-3676 T.D.
3238- 56	limestone, white finely crystalline	Base Oread 3256
3256-3333	shale, green and gray and brown, trace sand at base	
3333- 40	limestone tan, gray and brown, finely crystalline to dense oolitic trace stain	Brown Lansing
3340- 48	shale and limestone	
3348- 73	limestone, tan to gray finely crystalline to dense trace gray opaque chert	White Lansing 3348
3373- 79	limestone tan sub crystalline to dense, some pin-point porosity	Fair odor, trace stain gas
3379-3400	limestone as above, much shale	
3400- 35	limestone gray to brown, finely crystalline	
3435- 38	limestone, light gray-tan sub crystalline, trace porosity	trace spotted stain, no odor
3438- 68	limestone as above, noporosity, some chert, white to gray opaque	
3468- 80	limestone as above, streaks of fair vugular porosity, some colites	Fair spotted stain, no odor
3480-3504	limestone as above, no porosity	
3504- 08	brown shale	
3508- 10	limestone as above	
3510- 15	limestone, light gray-tan sub-crystalline, oolitic and oolitic, fair porosity	Fair stain trace odor
3515- 29	limestone tan dense	
3529- 33	limestone tan oolitic and oolitic, porous	fair odor and stain
3533- 62	limestone, white to gray-brown dense	Base Kansas City 3562
3562- 94	Streaks limestone as above and gray and brown shale	
3594-3628	chert, white brown, gray, pink, vitreous opaque to translucent, some gray and brown shale	Top Viola 3594

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3628- 72	green and brown shale, trace sand and chert	Top Simpson 3628
3672- 76	dolomite brown, finely sucrose to finely crystalline	Top Arbuckle 3672 good odor and stain
3676	total depth	

Swabbed approximately 10 barrels oil per hour natural  
Drill stem test 3504-34, open 30 minutes. Recovered 30  
feet mud with a trace of oil.

Samples examined and log compiled by Wendell S. Johns

T I M E L O G

WENDELL S. JOHNS  
*(Signature)*

Shawver & Graham #1 Mettscher  
 approximately SE/NE/NW  
 13-22S-13W  
 Stafford County, Kansas  
 Elevation: 1391 Derrick Floor

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

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3200 - 10	4-4-4-4-4-7-7-7-7-7	Heebner Shale
20	5-5-6-6-5-6-6-6-5-4	
30	2-3-6-3-4-2-4-4-2-4	
40	5-4-4-5-5-5-4-3-3-6	
50	5-4-5-6-6-5-5-5-7-5	
60	7-5-5-4-5-7-4-5-5-5	
70	5-5-5-5-5-5-5-5-5-4	
80	5-4-4-5-5-3-4-4-5-5	
90	2-4-4-4-3-3-4-4-5-5	
3290 - 3300	4-5-4-5-5-5-5-4-5-4	
3300 - 10	5-4-5-4-5-5-5-4-5-5	
20	5-4-5-4-5-5-4-5-4-5	
30	5-5-5-5-5-5-5-5-5-5	
40	5-5-5-6-7-7-9-9-7-8	Top Brown Lansing 3333
50	7-9-9-9-9-6-5-5-5-4	Trip 3345; Top Lansing 3348
60	4-4-4-3-3-3-4-5-4-4	Circ. for samp. @ 3355
70	4-3-4-5-4-4-4-4-4-4	
80	4-4-4-3-3-3-2-3-2-5	Circ. for samp. @ 3380
90	4-5-4-4-3-3-3-4-3-3	
3390 - 3400	3-4-4-3-4-4-4-4-5-4	
3400 - 10	5-4-5-5-4-4-3-3-3-3	
20	4-4-4-4-3-3-3-3-3-2	
30	4-4-3-4-4-4-3-4-4-3	Circ. for samp. @ 3423
40	3-3-3-2-3-2-2-2-2-2	Circ. for samp. @ 3438
50	3-3-3-3-4-3-4-3-3-4	
60	5-3-5-6-5-6-5-5-5-4	
70	4-7-7-8-6-8-8-8-5-4	
80	7-6-7-8-4-4-6-6-6-5	
90	7-7-6-7-6-7-7-6-8-8	
3490 - 3500	6-5-5-5-5-5-7-9-9-8	
3500-10	10-8-8-7-5-3-3-3-4-6	
20	4-2-3-2-2-4-5-8-8-7	Circ. for samp. 1 1/4 hr. @ 3517
30	7-7-7-8-9-11-7-8-7-3	
40	2-3-3-5-4-5-3-7-4-6	Circ. for samp. 1 1/2 hr @ 3534
50	4-4-6-4-4-5-4-6-7-7	DST 3504 - 3534
60	6-4-6-6-5-5-5-6-6-4	
70	5-4-7-7-7-8-6-8-8-6	
80	7-7-7-6-6-6-6-3-7-6	
90	7-8-8-8-6-6-7-7-8-8	
3590 - 3600	7-8-8-8-4-4-4-2-2-3	Top Viola 3594

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3600 - 10	2-4-4-3-2-2-2-3-3-3	
20	10-7-5-5-4-7-5-5-8-12	
30	16-3-4-4-3-4-3-4-5-4	Trip # 3621
40	5-6-5-7-6-6-6-8-6-5	
50	5-4-4-5-5-5-4-3-4-5	
60	5-5-4-5-4-4-4-4-4-5	
70	4-5-4-5-6-6-3-4-4-3	
76	4-4-2-2-2-2	Top Arbuckle 3672 Circ. for samp. # 3674 T.D. 3676 Circ. 3676 for 1½ hrs.

Time log condensed by Wendell S. Johns.