

Artnell #3 Habiger
 990' from North Line)
 430' from East Line) MS# 27-18S-10W
 Rice County, Kansas
 Elevation: 1751 Derrick Floor

Commenced 9-10-47
 Completed 227 - 10 3/4"
 7" 2699

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

Depth	Formation Description	Remarks
0- 20	Clay	Drillers Log.
20- 110	Sand	0 - 2300
110- 230	Sand, shale and iron	
230- 240	Shale	
240- 470	Red beds	
470-1070	Salt, shale and shells	
1070-1210	Shale and shells	
1210-1340	Lime and shale	
1340-1485	Shale and shells	
1485-1730	Lime and shale	
1730-2045	Shale and shells	
2045-2300	Shale and Lime	
2300-2304	Gray, sub-crystalline Lime; possible trace oil stain	Sample log 2300' - T.D.
2304-2316	Sand, fine gray slightly micaceous	
2316-2340	Sand as above with gray shale streaks	
2340-2350	Lime, dark brown to dark gray	
2350-2364	Lime, white to light tan, sub-crystalline	
2364-2377	Gray and red shale	
2377-2400	Dark brown Lime, dense, some dark gray	
2400-2414	Lime as above with shale streaks	
2414-2438	Gray shale, sand and sandy shale, micaceous	Top Topeka 2438
2438-2480	Tan to light brown, sub-crystalline Lime	
2480-2490	Some medium gray, angular, micaceous sand, some gray shale.	
2490-2500	Lime, gray and black, mottled, some tan, finely crystalline to sub-crystalline	
2500-2510	Lime, tan, sub-crystalline, fusulinids	
2510-2560	Lime, tan and gray, mottled, crystalline, gray, opaque, chert	
2560-2600	Lime, tan, finely crystalline, some chert white to gray, opaque	
2600-2640	Lime, light gray to nearly white, finely crystalline	
2640-2650	Some shale streaks	
2650-2663	Lime, tan, sub-crystalline to finely crystalline, oolitic, very porous, very saturated, good odor.	Producing zone.
2663-2665	Streak gray shale	
2665-2690	Lime, tan, dense	
2690-2700	Lime, light brown, finely crystalline, some gray opaque chert.	
2700	Total Depth	

Cored 2652-65; recovered 2' Limestone, tan and gray, dense, non-oolitic to dense very oolitic and oolitic; some extremely porous; very good saturation and odor.

Artnell #3 Habiger

Formation Log

Perforated 2656 $\frac{1}{2}$ -63 with 44 shots; filled up about 200' with oil in 16 hours; acidized with 2000 gallons; filled 2660 feet with oil - time unknown; swabbed 100 barrels oil in 2 hours.

Sample information from sample log by Wendell S. Johns

TIME LOG

WENDELL S. JOHNS

Artnell #3 Habiger
990' South of north line) NW 1/4
430' West of east line)
27-18S-10W
Rice County, Kansas

Elevation: 1751 Derrick Floor

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

1' time log from 2300' - 2700'

<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>
2300-- 10	4-4-5-3-3-2-2-2-1-2	
20	2-1-1-1-2-2-3-3-2-2	
30	2-2-3-2-2-3-2-2-2-3	
40	3-2-3-2-3-3-3-2-3-3	
50	4-4-4-3-4-4-4-6-4-4	
60	4-5-5-4-5-3-4-6-6-5	
70	6-6-6-5-5-4-4-3-3-3	
80	3-3-3-2-3-3-3-5-6-4	
90	5-5-4-7-6-6-5-6-5-5	
2400 9-4-3-4-4-6-6-5-6-5		
2400-- 10	4-6-4-3-5-5-5-7-7-5	
20	4-5-5-3-3-3-2-2-3-3	
30	2-3-2-2-2-2-2-2-1-1	
40	1-4-1-1-1-2-2-1-5-2	Top Topeka 2438
50	3-5-5-5-5-5-4-6-5-5	
60	7-8-5-5-7-5-7-5-5-5	
70	5-5-6-7-7-5-6-7-6-5	
80	5-5-7-5-5-7-7-9-8-7	
90	5-3-3-3-5-7-6-4-3-5	
2500 6-12-12-15-12-10-10-11-8-7		
2500-- 10	11-10-12-10-7-6-6-5-5-6	Trip 2503
20	6-5-6-7-7-6-5-6-7-5	
30	5-5-6-5-4-4-4-3-4-4	
40	4-4-5-7-3-6-4-5-6-10	
50	8-6-7-7-6-2-3-2-5-6	
60	7-7-10-10-9-7-7-7-9-6	
70	5-7-7-6-5-4-4-8-4-5	
80	5-4-5-5-5-6-6-5-7-7	
90	6-4-4-7-3-5-3-7-5-6	
2600 8-7-8-9-6-8-3-7-8-7		
2600-- 10	10-8-9-8-9-8-8-7-8-5	
20	7-6-5-5-6-4-5-4-5-6	
30	18-13-7-7-5-7-6-5-6-6	
40	5-4-5-7-10-9-9-4-4-6	
50	7-8-8-9-10-12-18-13-15-10	Slightly rough 2648-50
60	5-4-5-4-5-2-3-1-3-2	Circulated 2652 1 hour
70	2-6-6-9-13-2-3-7-5-4	Cored 2652-65; Circulated 2665 45 minutes
80	4-3-3-4-4-5-4-5-5-4	
90	5-6-6-7-5-5-5-5-5-4	
2700 8-6-5-4-4-6-5-6-5-5		Total Depth 2700.

Time Log condensed by Wendell S. Johns