

P U B L I C I T Y   L O G

WILDELL ST. JOHNS

8 5/8" surface casing 143'; 125 sacks

Barnett Drilling, Inc., et.al. #1 Moore  
 52/54/56; 20-80-228  
 Graham County, Kansas  
 Elevation: 2202 Derrick floor

Note: All measurements are taken 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 - 20	Surface clay	Drillers log 0 - 3000'
20 - 25	Sand	
25 - 70	Shale	
70 - 75	Sand	
75 - 860	Shale	
860 - 940	Sand & shale	
940 - 1080	Shale	
1080 - 1275	Shale & shells	
1275 - 1465	Sand	
1465 - 1590	Shale, sand & shells	
1590 - 1791	Shale & shells	
1791 - 1823	Anhydrite	Stone Corral
1823 - 1945	Shale	
1945 - 2227	Shale & shells	
2227 - 2350	Shale	
2350 - 3000	Limestone & shale	
3000 - 3069	Shale, gray & brown; trace gray sub-crystalline limestone; streaks gray sand.	Sample log starts 3000'
3069 - 3143	Limestone, gray to brown, finely crystalline to dense; streaks shale, gray, brown and green.	
3143 - 3204	Sand, gray, fine & limestone, gray, dense.	
3204 - 3256	Limestone, tan to gray, finely crystalline to dense; streaks gray shale	Topoka
3256 - 3261	Limestone, white to light tan, many small oolites & collicasts, sandy, slightly dolomitic.	No show
3261 - 3278	Limestone, as above; much white, opaque chert.	
3278 - 3290	Limestone, buff, finely crystalline, dolomitic, collicastic	Porous, no show
3290 - 3326	Limestone, as above & some limestone, gray to tan, finely crystalline; streaks gray and black shale	
3326 - 3330	Limestone, light tan, oolitic & collicastic.	Porous, no show
3330 - 3333	Streak gray shale	
3333 - 3341	Limestone, as above	Porous, no show
3341 - 3366	Limestone, buff, finely crystalline; much buff, opaque chert; streaks gray & brown shale	
3366 - 3372	Limestone, gray to tan, dense; much opaque & devitrified chert; streaks shale	
3372 - 3388	Limestone, gray to tan, sub-crystalline some very collicastic, chert, gray	Porous, no show
3388 - 3410	Limestone, gray to tan, finely crystalline to dense, some very collicastic, fusulinids; chert, gray, opaque with fusulinids.	Porous, no show

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3410 - 3420	Limestone, brown, sub-crystalline, cherty	
3420 - 3422	Shale, black	Hoebner
3422 - 3427	Limestone, brown to gray, dense; some blue chert.	Leavenworth
3427 - 3442	Shale, green & brown	Snyderville
3442 - 3452	Limestone, cream, sub-crystalline to dense; much light gray chert	Toronto
3452 - 3459	Shale, green & brown	Base Grand 3452
3459 - 3461	Limestone, tan, sub-crystalline, trace oolites; chert, white to gray, opaque, oolitic	Douglas
3461 - 3462	Limestone and chert, as above	Lansing
3462 - 3488	Limestone, white to light cream, dense; chert, gray opaque to translucent; shale, brown and green	Vugular porosity; fair stain
3488 - 3493	Limestone, cream, sub-crystalline, fractured; much gray, amber and red chert.	Trace oolitic & vugular porosity; trace free oil no odor
3493 - 3525	Limestone, white, sub-crystalline, sucrose, some dolomitic; some chert, white to red opaque; much green & gray shale	
3525 - 3532	Limestone, white, sub-crystalline	Good vugular porosity, good stain.
3532 - 3538	Limestone, as above	Spotted porosity & stain, as above.
3538 - 3570	Limestone, white to gray, finely crystalline to sub-crystalline; streak brown shale	
3570 - 3573	Limestone, gray, sub-crystalline to to dense, many chert inclusions	Pinpoint porosity, some dead oil, trace live oil
3573 - 3575	Streak black shale	
3575 - 3578	Limestone & chert, as above	Ferous, with show as above
3578 - 3584	Streak gray shale	
3584 - 3587	Limestone and chert, as above	Ferous with show as above
3587 - 3604	Limestone, gray, sub-crystalline to dense, brown, oolitic; streaks gray and green shale	
3604 - 3607	Limestone, brown, dense, large irregular oolites	Pinpoint porosity, no stain, trace dead oil
3607 - 3616	Limestone, dense lithographic; shale gray-green and brown	
3616 - 3631	Limestone, gray, finely crystalline to to dense	Vugular pinpoint and inter-oolitic porosity, good stain, some free oil.
3631 - 3638	Shale, gray	Probably Marston
3638 - 3642	Limestone, white, finely crystalline to crystalline, trace white opaque chert	Trace fractures & inter-oolitic
3642 - 3702	Limestone, gray to tan to white to red, crystalline to dense; some chert; shale, gray, green & brown	Some dead stain
3702 - 3706	Limestone, white, crystalline	Definite Marston 3666
3706 - 3815	Limestone, white, finely crystalline, sandy and limestone, gray to brown, dense; chert, varicolored, opaque to translucent; shale, gray, green and brown.	Fair pinpoint and vugular porosity; heavy black dead oil

(3) Formation log; Barnett #1 Moore

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3815 - 3861	Chert, white and gray, opaque; red and citrine translucent to opaque; some gray devitrified chert; free semi-rounded sand grains; streaks green & brown shale; increase in brown shale at bottom	Conglomerate
3861 - 3870	Dolomite, gray to tan, finely crystalline to crystalline, rhombohedral; some streaks yellow and red dolomite.	Erosional Arbuckle; possible trace dead oil stain.
3870 - 3895	Dolomite, as above, much brown shale	
3895	Rotary total depth	