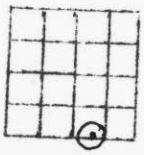
County Atchison



sec. 14 T. 65 R. 40

Owner Rankin, W.F.

Elev. 911.33 MGS# 1812

Farm Rankin No. 1 TD 1551 Shows no Spls. ✓

Status _____ Date Completed 1914 FmTD Cherokee

Remarks;

00060
~~00039~~
RA001

Log of W. F. Rankin No. 1 Fee. Location: SE. 1/4 SW 1/4 SE 1/4 sec. 14, T. 65 N., R. 40 W., Atchison County, Mo. Elevation: 911.3 feet. Completed August, 1914. Well No. 2 on map, Pl. I.

	Thickness, feet	*Depth, feet*	
Pleistocene series:			
Soil	25	25	
Sand, mixed with impurities	10	35	
Clay, blue, pebbly	95	130	
Sand, fine, water	45	175	
Pennsylvanian system:			
Shawnee and Douglas groups:			
Shale, gray	5	180	
Limestone, gray, fine-grained coarse cuttings	10	190	Deer Creek.
Shale, gray	20	210	
Limestone, no sample saved	4	214	
Shale, gray-blue	31	245	
Shale, gray	10	255	
Limestone, gray-blue, argillaceous	8	263	LeCompton.
Shale, blue-gray	15	278	
Limestone, gray	5	283	
Shale, gray-blue, effervesces	20	303	
Shale, lighter gray than above, effervesces freely	15	318	
Shale, black, bituminous, fossil	8	326	Oread Limestone.
Shale, gray, effervesces freely	19	345	
Limestone, light-gray	5	350	
Shale, gray, effervesces freely	5	355	
Shale, red, ferruginous, effervesces	25	380	
Shale, dark blue, effervesces	80	460	
Shale, gray (driller reports some lime shells)	5	465	Haskell
Shale, gray	5	470	
Shale, reddish-brown, soft	5	475	
Shale, bluish-gray	15	490	
Pedee, Lansing, and Kansas City groups:			
Limestone, dark-gray, fine-grained	5	495	Iatan.
Limestone, little lighter colored than above	5	500	
No sample, shale reported by driller	10	510	
Limestone, gray (Stanton limestone), vessicular	40	550	
Shale, dark blue	7	557	
Limestone, light gray, a small amount of dark shale (Plattsburg ls.)	15	572	
Shale, dark blue	20	592	
Limestone, gray-blue	28	620	
Shale, gray	15	635	
Limestone, gray-blue	10	645	
Shale, gray-blue	5	650	
Limestone, gray to blue	20	670	
Shale, grayish-blue	15	685	
Shale, dark blue with some limestone cuttings	5	690	
Shale, blue	5	695	
Limestone, gray	15	710	
Shale, no sample	15	725	
Limestone, gray	10	735	Winterset L. S.
Limestone, gray to blue, very hard fine cuttings	10	745	
Limestone, gray	12	757	
Shale, black fissle	3	760	
Limestone, light gray (Bethany Falls)	20	780	
Shale, very dark blue	4	784	
Shale, light gray	4	788	
Limestone, gray, shaley (Hertha)	6	794	

Log of W. F. Rankin No. 1 Fee—Continued.

	Thickness, feet	*Depth, feet*	
Pleasanton, Henrietta and Cherokee groups:			
Shale, dark gray to dark blue	126	920	
Shale, gray, calcareous, some limestone	5	925	
Shale, gray, very calcareous	5	930	
Limestone, gray, shaly	5	935	
Limestone, gray, shaly	20	955	
Shale, black, fissle	5	960	
Shale, dark blue	10	970	
Shale, blue	60	1030	Driller reports sandstone from 1030 to 1045.
Missing, probably shale	5	1035	
Sandstone, gray with dark blue shale	10	1045	
Open (driller reports shale)	15	1060	
Limestone, gray, some shale mixed in	10	1070	
Sandstone, dark gray	10	1080	
Sandstone, light gray, micaceous	15	1095	
Limestone, gray	25	1120	
Shale, dark blue	100	1220	
No samples from 1220 to 1330.			
Driller reports as follows (1220-1330):			
Red rock	5	1225	
Sandstone	5	1230	
Shale, dark	100	1330	
Shale, black	20	1350	
Shale, light gray	20	1370	
Shale, dark bluish-gray	10	1380	
Sandstone, gray, fine-grained, micaceous	5	1385	
Shale, gray	5	1390	
Sandstone, gray, fine-grained with dark shale cuttings mixed in	10	1400	
Same as above	10	1410	
Shale, gray	10	1420	
Shale, gray	40	1460	
Sandstone, white, mediumly coarse-grained	5	1465	
Sandstone, dark, fine-grained, micaceous	7	1472	
Shale, dark blue, bituminous	30	1502	
Shale, dark blue	49	1551* Total depth	

*Base of Cherokee not reached.

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H. A. BUEHLER, *Director and State Geologist*

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