

H. L. Moore #2 Gobin
 SE SE SW; 23-26S-13W
 Pratt County, Kansas
 Elevation: 1946 derrick floor

8 5/8" surface casing 554'
 5 1/2" casing 4361'
 Comm: 7-28-54
 Comp:

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

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 245	Sand	Drillers log 0 - 3500'
245 - 800	Red bed and shells	
800 - 825	Anhydrite	Stone Corral; drillers top
825 - 1440	Red bed, shale and shells	
1440 - 2445	Limestone and shale	
2445 - 2490	Limestone	
2490 - 2525	Shale	
2525 - 3030	Shale and limestone	
3030 - 3150	Shale	
3150 - 3350	Limestone and shale	
3350 - 3425	Limestone	
3425 - 3500	Limestone and shale	
3500 - 03	Shale, gray, limy	Sample log 3500' to T.D.
3503 - 53	Limestone, white to light gray, finely crystalline, some oolitic; spotted vugular and oolitic porosity	No show
3553 - 56	Shale, gray-black, soft	
3556 - 60	Limestone, tan, subcrystalline to finely crystalline, slightly dolomitic	
3560 - 73	Limestone, finely crystalline as above, spotted vugular porosity	No show
3573 - 77	Shale, brown-black, finely micaceous, fissile	Heebner
3577 - 83	Limestone, blue-gray, subcrystalline	Leavenworth
3583 - 89	Shale, gray and gray-green	Snyderville
3589 - 3607	Limestone, cream to tan, finely crystalline; trace porosity	Toronto; no show
3607 - 38	Shale, gray and gray-green, finely micaceous, some silty; streaks fine, gray, micaceous, argillaceous sand	Top Douglas 3607
3638 - 41	Sand, as above	
3641 - 83	Sand, fine to medium, well sorted, micaceous, argillaceous	Spotted brown stain, probably oil.
3683 - 3743	Shale, gray and gray-black, some pale green shale; streaks sand, as above	
3743 - 47	Limestone, brown, dense, some argillaceous	Top Brown Lime 3743

OWLL

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3747 - 59	Mostly gray shale; streaks limestone, as above	
3759 - 63	Limestone, as above	
3763 - 66	Shale, gray	
3766 - 92	Limestone, gray to light tan, fossiliferous, subcrystalline, some with black oolites; streaks gray shale	Top Lansing 3766
3792 - 3808	Limestone, gray, subcrystalline crypto-oolitic; spotted vugular porosity	Trace stain
3808 - 18	Limestone, tan to gray, subcrystalline to dense; streaks gray shale	
3818 - 34	Limestone, light gray, fairly clean, subcrystalline; spotted vugular porosity 3818-22, 3825 - 27 and 3831 - 33	Trace stain
3834 - 38	Shaly limestone	
3838 - 41	Limestone, as above; some gray, opaque chert	Porous on electric log.
3841 - 59	Limestone, as above; streaks gray shale	
3859 - 64	Limestone, brown to gray-black dense; some gray, opaque chert	Porous on electric log.
3864 - 74	Limestone and chert, as above, shaly.	
3874 - 84	Limestone, gray to buff, finely crystalline to subcrystalline; spotted vugular porosity; chert, gray, opaque	No show
3884 - 89	Shaly limestone, as above	No show
3889 - 99	Limestone, porous, as above	No show
3899 - 3903	Shaly limestone, as above	No show
3903 - 11	Limestone, porous, as above	No show
3911 - 16	Limestone, gray, finely crystalline to subcrystalline; chert, gray to white, opaque	
3916 - 21	Shale, gray and gray-black	
3921 - 32	Limestone, blue-bray, subcrystalline, oolitic; fair oolitic porosity 3924 - 26	Slight to fair stain
3932 - 39	Limestone and gray-black shale	
3939 - 43	Limestone, light gray to brown, finely sucrose; good oolitic porosity	Good stain
3943 - 54	Limestone, gray to tan, dense; much gray-black shale.	
3954 - 62	Limestone, brown, finely sucrose, oolitic, calitic; fair vugular and oolitic porosity	Good stain

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3962 - 70	Limestone, tan, dense	
3970 - 78	Limestone, gray to tan, finely crystalline; fair honeycomb porosity	Spotted fair stain
3978 - 90	Limestone, salmon to light gray dense; streak gray-black shale	
3983 - 86		
3990 - 94	Limestone light gray, finely sucrose, oolitic; good oolitic porosity	Fair spotted stain
3994 - 4013	Limestone, gray to tan subcrystalline, chalky; chert, gray, opaque to translucent; streak gray-black shale 3997 - 4004	
4013 - 4016	Limestone, as above	Porous on electric log.
4016 - 39	Limestone and chert, as above; streaks gray-black shale	
4039 - 41	Limestone, gray, subcrystalline, oolitic; spotted oolitic porosity	Trace stain
4041 - 84	Mostly limestone, light gray to tan, dense, lithographic; streaks gray-black shale	Base Kansas City 4084
4084 - 95	Shale, gray and gray-green	Top Marmaton 4084
4095 - 98	Limestone, brown to gray, medium to subcrystalline	
4098 - 4109	Limestone, as above; streaks shale as above, some brown shale	
4109 - 13	Shale, gray to gray-green to dark gray to brown	
4113 - 24	Limestone, gray to light tan, finely crystalline to subcrystalline; chert, salmon, white and gray vitreous	
4124 - 29	Shale, as above	
4129 - 51	Limestone and chert, as above; much gray to buff, finely crystalline, silicified limestone	
4151 - 59	Limestone and chert, as above, shaly	
4159 - 92	Shale, gray, gray-green and dark gray, less brown shale	
4192 - 4208	Chert, white to cream to salmon, opaque, vitreous; streaks tan, subcrystalline limestone	Top Mississippi 4192; No show
4208 - 10	Shale, gray-black to dull gray green	Top Kinderhook 4208
4210 - 22	Shale, as above; much light brown to tan to cream, opaque chert	

Formation Log.

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4222 - 55	Chert, white, translucent, figured, lacey; chert, white opaque, vitreous, some vuggy; chert, white to brown, mottled devitrified	Top Viola 4222; fair show free oil, slight odor; D.S.T.
4255 - 57	Shale, black, waxy	
4257 - 61	Limestone, tan to white, sub-crystalline, chalky, sandy	
4261 - 69	Shale, gray to olive gray-green, sandy	Top Simpson 4261
4269 - 75	Sand, white to tan, poorly sorted, sub-angular to sub-rounded, very shaly	Slight to fair show free oil, fair odor; D.S.T.
4275 - 78	Dolomite, tan to brown, finely crystalline to subcrystalline fair spotted vugular porosity	Fair odor, slight to fair show free oil; D.S.T.
4278 - 86	Dolomite, as above, some buff to light tan, subcrystalline, sandy dolomite	
4286 - 88	Shale, as above	
4288 - 94	Sand, clear to light tan, poorly sorted, subangular, very shaly	Slight to fair show free oil; D.S.T.
4294 - 97	Sand, as above, less shaly	Much gilsonite, no free oil; D.S.T.
4297 - 4318	Mostly sand, white to clear, fine to medium, sub-rounded, fairly well sorted, shaly	
4318 - 59	Shale, gray-green to gray to pale green, sandy; streaks sand, as above	
4359 - 61	Dolomite, cream to buff, medium to finely crystalline, rhombohedral	Top Arbuckle 4359
4361 - 66	Dolomite as above; fair vugular porosity; chert, white, opaque to semi-translucent, oolitic	Very slight show free oil; D.S.T.
4366 - 70	Dolomite, light tan to buff, sub-crystalline to nearly dense; streaks dark green shale; chert gray, opaque, oolitic.	
4370 - 73	Dolomite, cream, finely crystalline, oolitic; spotted fair vugular and oolitic porosity	Very slight show free oil; D.S.T.
4373 - 78	Dolomite, tan to buff, subcrystalline	
4378	Rotary total depth.	

Drill Stem Test Data:

Viola:

(1)

4213 - 55: Open 1 hour - good blow throughout test.
Recovered: 150' slightly oil and gas cut mud
Bottom hole pressure: 640# (30 min.) still
building up rapidly

Simpson

(2)

4260 - 80: Open 1 hour - strong blow throughout test, gas
to surface in 20 minutes.
Recovered: 15' heavily oil and gas cut mud
60' muddy oil
360' slightly muddy to clean oil
Bottom Hole pressure: 1015# (30 minutes)
Initial flow pressure: 90#
Final flow pressure: 150#

(3)

4285 - 4301: Open 1½ hours - weak blow for 3 minutes,
flushed tool at 15 minutes and again had
weak blow for 3 minutes.
Recovered 85' mud
Bottom hole pressure: 0# (20 min.)

Arbuckle:

(4)

4361 - 78: Open 1 hour - strong blow throughout test
Recovered: 120' gas
180' slightly oil and gas cut mud
120' heavily oi l and gas cut mud
180' muddy oil
180' clean oil
Bottom hole pressure: missed
Initial flow pressure: 0#
Final flow pressure: 125#