

FORMATION LOG

W. H. Amis Jr. #2 Gobin "A"
NW NW SW, 23-26S-13W
Pratt County, Kansas
Elevation 1934 Kelly Bushing
1931 Derrick Floor

8 5/8" casing 803
Comm: 7-17-55
Comp: 8-2-55

Note: All measurements are from the top of the rotary bushing.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 1845	No log	Drillers log 1845 to 3500
1845 - 2150	Limestone and shale	
2150 - 2220	Limestone	
2220 - 2385	Shale and limestone	
2385 - 2527	Limestone and shale	
2527 - 2720	Shale and limestone	
2720 - 2890	Shale and limestone streaks	
2890 - 3035	Shale and shells	
3035 - 3330	Shale and limestone	
3330 - 3480	Limestone and shale	
3480 - 3500	Limestone	
3500 - 11	Limestone, light tan , subcrystal- line to white chalky, fair vugular porosity	Sample log 3500 to T.D. No show
3511 - 47	Limestone as above more porosity	No show
3547 - 54	Limestone white subcrystalline to dense	
3554 - 70	Limestone tan to white, sucrose to- chalky, possibly some porosity	No show
3570 - 76	Shale, dark gray to black, possi- bly some brown	
3576 - 92	Limestone as above, fair vugular porosity	Some dead stain
3592 - 98	Shale, brown-black, soft	Heebner
3598 - 3602	Limestone dark gray to brown dense, fossiliferous	Leavenworth
3602 - 10	Shale, green, some gray silty	Snyderville
3610 - 33	Limestone, light cream to white, crystalline to finely crystalline	Toronto
3633 - 45	Shale green-gray, some very fine gray sand, silty, micaceous	Douglas 3633-3763
3645 - 48	Sand, gray hard calcareous	
3648 - 63	Sand fine gray angular micaceous shaly	
3663 - 3703	Sand green-gray micaceous, fine to submedium	
3703 - 3763	Shale gray to green gray, finely micaceous silty, streaks sand as above	
3763 - 66	Limestone dark gray brown dense	Brown Lansing

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3766 - 80	Shale, gray, possible limestone streaks	
3780 - 83	Limestone as above	
3783 - 84	Shale, gray	
3784 - 3802	Limestone, white chalky to subcrystalline, fossiliferous	Lansing
3802 - 10	Streaks limestone as above and gray shale	
3810 - 15	Limestone brown dense	
3815 - 27	Limestone, light gray white subcrystalline to chalky, fair vugular porosity	No odor or free oil slight spotted stain
3827 - 33	Limestone, light gray, subcrystalline to dense	
3833 - 37	Limestone, dark brown to black mottled, dense to finely crystalline, chert brown opaque	
3837 - 38	Shale, gray	
3838 - 56	Limestone, tan, sucrose to finely crystalline, fair vugular and pinpoint porosity	No show
3856 - 65	Limestone, gray, finely crystalline, some gray, nonvitreous chert	
3865 - 67	Shale, gray	
3867 - 82	Limestone brown dense, chert dark gray vitreous to nonvitreous	
3882 - 87	Streaks limestone as above and gray and brown shale. Some chert, black semi-vitreous	
3887 - 95	Limestone, gray tan to brown finely crystalline to granular	
3895 - 3908	Limestone, gray-tan, granular to sucrose, possibly porous chert gray opaque	No show
3908 - 3931	Limestone gray dense, chert as above	
3931 - 37	Limestone brown to tan, finely crystalline, fossiliferous some inter-crystalline and pinpoint porosity	Possible trace dead stain
3937 - 45	Limestone tan subcrystalline some chert	
3945 - 49	Shale, gray and brown	
3949 - 51	Limestone, light tan to brown dense, coarsely oolitic, good porosity	Slight odor, fair spotted stain show free oil and water

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
3951 - 61	Limestone as above some brown translucent chert. Some porosity as above 3956-58	Show oil and water as above
3961 - 63	Shale gray and brown	
3963 - 68	Limestone gray to tan dense scattered vugular porosity	Possible slight stain
3968 - 77	Limestone, tan, subcrystalline	
3977 - 79	Shale, gray	
3979 - 88	Limestone, light tan, finely crystalline oolitic, fair vugular porosity	No odor or free oil possible slight stain
3988 - 94	Limestone brown, subcrystalline to dense, some white chalky	
3994 - 4003	Limestone tan, very oolitic, good porosity	Slight odor very slight trace free oil
4003 - 15	Limestone gray to brown, dense, some gray chert	Brown stain
4015 - 19	Limestone gray to brown, subcrystalline to dense, fair vugular porosity some oolitic porosity	No odor or free oil Slight spotted stain
4019 - 30	Limestone brown dense and streaks gray shale	
4030 - 33	Limestone as above, possible porosity	Show as above
4033 - 61	Limestone, gray to brown, dense	
4061 - 64	Shale, gray to dark gray	
4064 - 67	Limestone as above, chert gray to tan, opaque to translucent	
4067 - 69	Limestone, subcrystalline fair vugular porosity	Slight spotted stain
4069 - 72	Limestone as above, no porosity	
4072 - 74	Shale, black	
4074 - 88	Limestone brown to gray dense	
4088 - 89	Shale, black	
4089 - 92	Limestone as above	
4092 - 94	Shale black	
4094 - 4102	Limestone, tan to brown, crystalline to dense, oolitic	
4102 - 07	Shale, gray, purple, brown	
4107 - 14	Limestone as above	
4114 - 23	Shale, gray, trace brown, some siltstone gray, micaceous	Base Kansas City 4114 Marmaton

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4123 - 29	Limestone, gray to brown, finely crystalline, some fossils or oolites	
4129 - 36	Shale, gray to green, streaks limestone, gray, green, red, dense to finely crystalline	
4136 - 40	Limestone as above	
4140 - 46	Shale, green, purple, brown	
4146 - 52	Limestone as above	
4152 - 58	Shale, as above	
4158 - 77	Limestone, tan to brown, dense, much chert, red, yellow, amber, brown, and white; translucent, vitreous	
4177 - 96	Limestone as above, chert, gray devitrified	Trace dead black stain
4196 - 4219	Limestone and chert as above, increase in shale, gray, brown, and gray-green	
4219 - 33	Shale, purple, brown, maroon	
4233 - 64	Shale, red, brown, maroon, shale red amber and tan, translucent. Trace green limestone and chert near bottom.	
4264 - 70	Limestone, gray-green, brown, dense some shale and chert as above	
4270 - 91	Chert, white devitrified with much black gilsonite, chert. Amber translucent, gray opaque, figured, white brown and amber translucent.	Mississippi
4291 - 4306	Shale, gray to green-gray, to dark purple maroon, streaks limestone, gray brown and olive, dense to finely crystalline	Kinderhook
4306 - 20	Chert, white semi-vitreous opaque figured, some white devitrified, some light brown devitrified chert.	Viola, no odor. Some free oil. D.S.T.4298-4320
4320 - 50	Limestone, gray to pink, sub-crystalline to chalky much chert as above, some variegated shale	
4350 - 68	Limestone as above, some white chalky, increase in chert as above increase in shale, green, gray and red.	

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<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4368 - 76	Dolomite, light tan, finely crystalline to sucrose	
4376 - 80	Dolomite as above, much shale, green-gray, dark gray, brown, and dark purple-maroon	
4380 - 84	Limestone, white and red coarsely crystalline	
4384 - 86	Shale, as above	
4386 - 89	Limestone, gray to red, chalky, sandy	
4389 - 91	Shale, green, slightly sandy	Simpson
4391 - 98	Streaks sand, white medium rounded glassy, and green shale	No show
4398 - 4406	Sand as above, a little green shale	No show
4406 - 09	Dolomite, brown, finely crystalline, tight slightly sandy	Possibly some dead oil, no odor
4409 - 18	Sand, brown, coarse, dolomitic, to sandy dolomite	Possible show dead oil
4418 - 20	Shale green	
4420 - 26	Sand, white, submedium sub-angular to subrounded	No show
4426 - 32	Shale, green gray to dark green	
4432 - 38	Sand, gray, glassy, medium, angular, very pyritic, possible green shale streaks	No show
4438 - 42	Shale, green, sandy	
4442 - 55	Shale, gray, poorly sorted, dolomitic, pyritic, some green shale streaks	No show
4455 - 81	Shale, green gray, possibly some brown. Some thin streaks sand as above. Possibly trace brown dolomite	
4481 - 92	Dolomite, light brown to tan, finely crystalline to subcrystalline, trace vugular porosity. Chert, white oolitic	Arhuckle, no show
4492	Total depth - Dry and abandoned Did not run an electric log	

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Drill Stem Tests:

The following drill stem tests were run on the #2 Gobin "A"

- (1) 4298 - 4320: Viola, 7-31-55 - Double packer
Open 1 hour, very small blow for 27 minutes
Recovered 10' mud - no oil, gas, or water
Initial flow pressure 12 P.S.I.
Final flow pressure 12 P.S.I.
Bottom hole pressure 25 P.S.I. (20 minutes)

- (2) 4384 - 4450: Simpson, 8-2-55, Double packer.
Open 1 hour, weak blow for 29 minutes
Recovered 30' mud, no oil, gas, or water
Initial flow pressure 32 P.S.I.
Final flow pressure 47 P.S.I.
Bottom hole pressure 1445 P.S.I. (30 minutes)

Samples Examined and Log Compiled

by

Wendell S. Johns