

Bradley, et al #1 Penny Wann
SEC 13-15-20W Ellis Co, Ks
Elevation ~~2095?~~
2075

- 2025-35 clear anhydrite predominant, gray granular dolomite, red and green gray shale
 2045 light tan and gray granular dolomite, anhydrite, variegated shale
 2055 same, increase in dolomite
 2065 granular and crystalline mottled black and tan dolomite
 2075 decrease in dolomite, increase gray shale
 2085 medium tan and gray granular dolomite, clear anhydrite, variegated shale
 2095 increase in tan granular dolomite
 2105 tan and gray granular dolomite predominant
 2115 same
 2125 gray and tan mottled granular dolomite
 2135 same, light red sandy shale
 2145 gray and tan dolomite, red shale
 2155 gray and tan granular dolomite, piece oolitic, decrease in red shale
 2165 buff and tan granular dolomite
 2175 light buff granular dolomite, slightly calcareous
 2185 same, some oolitic and porous, some gray granular dolomite
 2195 gray and tan granular dolomite, some finely oolitic and porous
 2205 light buff and gray granular dolomite
 2215 light buff and gray granular dolomitic lime, crinoids, fusulinids
 2225 light gray buff slightly dolomitic finely granular lime
 2235 same, some black mottled
 2245 same, more fossiliferous
 2255 light gray and buff dense to granular lime, fusulinids, trace chat
 2265 same, light gray opaque chat 5%
 2275 same, light gray opaque chat 5%, trace red and gray shale
 2285 light gray and buff dense to granular lime, some light to dark gray chat, red shale
 2295 medium gray and tan granular fossiliferous lime, some light to dark gray chat, red and gray shale
 2305 medium and gray granular lime, some black mottled trace gray chat, increase red and gray shale
 2315 medium gray and granular lime, some black mottled, medium gray chat, red and gray shale
 2325 red and green gray shale
 2335 red and green gray shale, light gray dense lime, trace light gray chat, spines, crinoids
 2345 red and green gray shale, gray buff dense to crystalline lime, light and dark gray chat, spines, crinoids
 2355 same, some smoky opaque spicular chat
 2365 medium and mottled dense vitreous to granular lime, and smoky spicular chat
 2375 medium gray mottled dense vitreous to granular lime, light and dark gray chat, variegated shale
 2385-95 same, increase red and gray shale, spines, light and dark gray chat
 2405 light gray and buff dense lime, red and gray shale, gray chat

Sample Log

Top Ft Riley	2160	
Base Florence Flint	2290	McNeil

Bradley, et al #1 Penny Wann
SEc 13-15-20W Ellis County, Ks
Elevation 2045'

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- 3195-3205 light gray semi crystalline fossiliferous lime, fusullinids, crinoids
3215 same, few small oolites
3225 light gray to buff medium gray semi crystalline lime, some slightly argillaceous
3235 light buff semi crystalline semi oolitic porous lime, 1 pieces gray chat, fusullinids
3245 light buff semi crystalline semi oolitic porous lime, very fossiliferous fusullinids
3255 light buff semi crystalline and dense lime, very fossiliferous, fusullinids
3265 same, some finely oolitic
3275 same, some dense and chalky, fossiliferous
3285 light tan semi crystalline fossiliferous semi porous lime
3295 same, more dense, contains argillaceous and carbon streaks
3305 tan dense platy lime, pyrite, black carbonaceous shale
3310 black fissile carbonaceous shale
3315 same, tan dense lime, fusullinids
3320 same, light cream tan dense vitreous lime, some semi crystalline
3323 cream tan dense platy vitreous lime, some semi crystalline
3325 same
3330 green gray drab shale, red shale, cream tan vitreous lime
3335 green gray drab shale
3340 green gray drab shale, increase red shale, tan dense and semi crystalline lime
3340 tan dense and semi crystalline lime, bright red shale

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Elevation 2045'

McNeil

- 3340-42 tan semi crystalline lime, some oolitic dense, red and green shale cavings?
 3350 tan oolitic porous crystalline lime, oil and water stain
 3353 light cream tan crystalline lime, some oolitic dense
 3356 light cream tan crystalline lime, few pieces oil stained, some oolitic dense
 3357-59 same, fusulinids, crinoids, spines, trace white chat
 3363 tan semi crystalline lime, fusulinids
 3364-79 light tan semi crystalline lime, fusulinids, crinoids, some pieces show
 dead oil stain
 3383 medium gray shale, gray semi crystalline argillaceous fossiliferous lime,
 crinoids, fusulinids
 3389 light gray tan semi crystalline lime, some oil stain, light tan chat, crinoids,
 fusulinids
 3400 light gray tan semi crystalline lime, few pieces white chat
 3403 same, white chat 10%

Top Ft Riley	2160
Base Florence Flint	2290
Top Wreford	2345
Base "	2374
Top Lansing	3337

Bradley #1 Penny Wann
 Sec 13-15-20W Ellis County, Ks
 Elevation 2045'

McNeil

- 3444-51 light tan semi clear dense platy to finely crystalline hard lime
- 3457 same
- 3465 light gray tan clear dense to crystalline lime
- 3500-10 light tan clear dense to crystalline hard lime
- 3520 light gray tan clear dense to crystalline hard lime
- 3530 light gray tan dense platy to finely crystalline lime
- 3540 ~~light gray tan dense platy to finely crystalline lime~~ same, some soft crumbly
- 3550 light tan dense platy and clear crystalline lime
- 3560 same
- 3570 tan dense lime, green and brownish red shale 50%
- 3575 light tan dense to finely crystalline lime, decrease in shale
- 3575 circulating 1 hour, same, increase in shale
- 3580 same, decrease in shale
- 3590 medium green gray shale, tan dense to finely crystalline lime
- 3595 same, red shale and red stained lime
- 3600 same, increase red shale and red stained lime
- 3605 same
- 3607 red and green soft reworked shale, red and green stained lime
- 3609 same
- 3615 same, increase lime 5%, few semi angular quartz grains
- 3621 red and green shale, slightly calcareous and reworked
- 3627 same
- 3631 same, pieces tan lime, some red stained
- 3633 same, tan finely crystalline lime 15%, slight oil stain, pink and red stained chat 10%
- ~~3660-65 medium and dark green gray shale~~

Top Ft Riley	2160
Base Florence Flint	2290
Top Wreford	2345
Base "	2374
Top Lansing	3337
Top Reworked Zone	3607
Top Conglomerate	3631

Bradley, et a #1 Penny Wann
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Elevation 2045'

McNeil

3634-41 light t n clear chat, tan dense to finely granular lime
3644 same, decrease chat
3646 same
3647 same, some gray sandy shale
3650 same
3653 same, green gray shale 50%
3655 small to large semi round quartz grains, calcareous cement
3657 same, oil saturated

Top Ft Kiley	2160
Base Florence Flint	2290
Top Wreford	2345
Base "	2374
Top Lansing	3337
Top Basal Sand	3653
TD	3657
1100' Oil 3 hours	

3653
2045

-1608

Samples 1290 to 3658 Examined by Boris Lerke

1290	1305	Drab anhydrite
1305	15	Ditto, some dolomite
15	25	Ditto
<u>Enid Group</u>		
1325	1355	Red mudstone, some red sand (conglomerate)
55	65	Brownish-red sandy shale
65	75	Ditto, some sandy dolomite
75	85	Brownish-red sandy shale, some sandy dolomite and green shale
85	95	Ditto, mostly red shale
95	1455	Ditto
1455	65	Ditto, increase in percent of green shale to 25%
65	75	Greenish-gray shale 40 percent, drab-white anhydrite 30 percent red shale 30 percent
75	85	Ditto, increase in anhydrite, decrease in red shale
85	1505	Ditto
1505	25	Red shale, some anhydrite and green shale
25	35	Ditto, increase in percent of anhydrite
35	55	Green shale 50 percent, anhydrite 50 percent
55	65	Ditto, some various colored shale
65	75	Ditto
75	1605	Anhydrite 75 percent, various colored shale 25 percent
1605	35	Ditto, mostly anhydrite
35	45	Ditto (probably salt zone)
45	1800	Drab anhydrite, some green shale (probably salt zone)
1800	1925	Salt
1925	2005	Anhydrite
<u>Marion</u>		
2005	2015	Anhydrite, some red shale
15	25	" , some dolomite
25	45	Drab dolomite
45	65	Ditto, some sand (25 percent)
65	85	Ditto, some red shale
85	2125	Drab sandy dolomite
25	50	red shale
<u>Fort Riley</u>		
2150	2255	Drab-brown crystalline dolomite
55	65	Ditto, some chert
65	75	
<u>Matfield Shale</u>		
65	75	Red shale, some dolomitic lime
75	95	Drab cherty dolomitic lime, some red shale
95	2315	Various colored shale, some drab cherty lime
2315	25	Red shale
<u>Wreford</u>		
2325	2350	Drab fossiliferous cherty lime
<u>Council Grove</u>		
2350	2355	Red shale
55	75	Ditto, drab cherty lime 30 percent
75	85	Drab fossiliferous cherty lime, some red shale
85	2405	Brown fossiliferous cherty lime
2405	15	Ditto, some various colored shale
15	25	Red shale
25	35	Ditto, some drab fossiliferous lime

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2435	45	Drab fossiliferous lime 75 percent, red shale 25 percent
45	55	Ditto, increase in red shale to 50 percent
55	75	Ditto
75	95	White fossiliferous cherty lime
<u>Eskridge Shale</u>		
2495	2505	Ditto, some red shale
2505	35	Ditto, some various colored shale percent
<u>Neva</u>		
2435	2445	Drab fossiliferous lime
45	55	Ditto, some red shale
55	75	Red shale
<u>Foraker Group</u>		
2575	35	Red shale, some drab lime 70 percent
95	2625	Drab fossiliferous lime, some red shale
25	35	White fossiliferous lime
35	85	Ditto, some red shale and chert
<u>Admire Shale</u>		
2685	2705	Red shale
2705	25	Fossiliferous drab lime, some red shale
25	35	Ditto (many Fusulina)
35	45	Ditto
45	55	Drab fossiliferous cherty lime
55	95	Drab fossiliferous lime 50 percent, various colored shale 50%
95	2875	Ditto, increase in percent of Various colored shale, some sand
<u>Tarkio</u>		
2875	2885	Drab fossiliferous lime
85	95	Ditto, gray shale 50%
95	2975	Ditto, various colored shale 50%
2975	85	Various colored shale (mostly gray) 70%, drab fossiliferous lime
85	95	Various colored shale 50%, drab fossiliferous lime 50%
95	3005	Ditto, increase in percent of shale to 75% (mostly gray) trace of sand
<u>Shawnee</u>		
3005	3015	Various colored shale (mostly red) 75%, micaceous cement. sand 25%
15	25	Various colored shale 50%, drab fossiliferous lime 50%
25	35	Various colored shale 75%, drab fossiliferous lime.
<u>Howard</u>		
3035	3045	Drab fossiliferous lime
45	55	Ditto, some various colored shale 25%
55	65	Various colored shale 75%, drab fossiliferous lime 20%, sand 5% (many Fusulina)
<u>Topeka</u>		
3065	3085	Drab-white highly porous fossiliferous lime
85	95	Drab fossiliferous lime 50%, various colored shale 50%
95	3105	Gray-drab fossiliferous lime
3105	25	Ditto, many fusulina
25	45	Drab highly fossiliferous cherty lime
45	55	Ditto, chert absent (oil stains)
55	75	Drab highly fossiliferous cherty lime
75	85	White highly fossiliferous lime (Fusulina bed)
85	95	Ditto, lime cherty
95	3205	Drab highly fossiliferous cherty lime

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3205	3225	Ditto, chert absent
25	35	Ditto
35	45	Drab highly fossiliferous lime
45	65	Ditto, (little saturation)
65	85	Ditto (many Fusulina)
85	98	Ditto (some dead oil stain)
		<u>Douglass</u>
3298	3305	Black shale, some red shale
3305	15	Black carboniferous shale
		<u>Dodge Lime</u>
3315	3330	White crystalline lime
30	35	Ditto, some red shale
35	40	Red shale
		<u>LANSING - KANSAS CITY</u>
3340	3341	Drab fossiliferous lime, (some saturation)
41	42	Brown shale
42	50	Drab-white oolitic lime (oil stain) 75%, brown shale 25%
50	53	Ditto, increase in shale to 50%
53	57	Ditto, increase in shale to 75%
57	63	Brown shale
63	79	White crystalline partly oolitic lime
79	83	Drab fossiliferous lime 50%, green shale 50%
83	3400	White fossiliferous oolitic lime
3400	3403	Ditto, some brown-green shale 25%
03	44	Missing
44	51	White crystalline lime
51	65	Drab-white fossiliferous lime
65	3500	Missing
3500	20	Drab dense lime
20	30	Drab-white fossiliferous lime
30	60	Drab-white fossiliferous lime
60	70	Ditto, some greenish-gray shale 25%
70	75	Drab dense lime, some greenish gray shale
75	85	Drab-white fossiliferous lime
		<u>Detrital Zone</u>
3585	3590	Various colored shale (greenish-gray predominating)
90	95	Ditto, some drab lime, trace of micaceous sand
95	3600	Drab lime 75%, red shale 25%
3600	05	Ditto, lime oolitic
05	27	Red-green shale
27	31	Ditto, trace of white lime
31	33	White cherty lime, trace of oil
33	44	Drab cherty lime
44	46	Drab fossiliferous lime
46	47	Brownish-drab lime
47	50	Drab cherty lime
50	53	Drab fossiliferous lime, some gray shale 30%
		<u>ORLOVICIAN - CAMBRIAN</u>
3653	3655	Quartzitic sand
55	57	Ditto, (sand well saturated)
57	58	Ditto, some saturation.

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