

Hall #1 Deines
Sic 12-13-24W Trego County, Ks
Elevation 2478'

- 2605-13 medium gray black mottled finely granular to crystalline dolomite,
few large oolites
- 2618 same
- 2625 same, red and green dolomitic shale, clear anhydrite
- 2632 red and green shale
- 2642 same
- 2648 same, clear anhydrite, tan granular dolomite
- 2655 tan granular dolomite, some dolomitic anhydrite
- 2664 same, red and green gray shale
- 2670 light gray tan granular dolomite
- 2677 light gray granular dolomite
- 2684 same, red dolomite, gray dolomitic shale
- 2691 red stained dolomite, red shale
- 2700 same
- 2712 same, increase red shale
- 2718 same
- 2725 clear anhydrite
- 2733 same, light gray fine granular dolomite, dark gray argillaceous dolomite
- 2742 medium gray finely granular slightly argillaceous dolomite, red shale 5%
- 2751 light gray granular dolomite
- 2760 same, has green tinge, trace green shale
- 2770 medium gray dense to granular dolomite, some oolitic porous, water
- 2776 medium gray dense to granular dolomite
- 2780 medium gray dense to granular dolomite
- 2787 medium gray dense to granular dolomite argillaceous
- 2792 same, black mottled argillaceous
- 2800 same
- 2808 same, increasingly argillaceous
- 2813 light gray granular dolomite
- 2824 same, red shale, red dolomite
- 2833 red shale and dolomite

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Sec 12-13-24W Trego County, Kansas

Elevation 2478'

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McNeil

- 2848-50 light tan and gray granular dolomite, trace red shale and clear anhydrite
2860 light tan granular to finely crystalline dolomite, semi porous, water
2868 -77 gray tan dense to finely granular dolomite, few pieces red dolomitic shale
2882 same, dark gray dolomitic shale 75%
2887 medium tan dense clear to crystalline lime, some dark green gray shale
2894 gray and tan dense clear to finely crystalline lime, some clear anhydrite,
1 piece white chat
2900 same, dolomitic argillaceous
2912 gray and tan dense to finely granular slightly dolomitic lime, medium gray
spicular chat, medium green gray shale
2920 red and dark green shale
2930 dark green and red shale
2937-44 gray tan dense to semi crystalline lime, dark green gray shale
2954 same, increase green and red shale, trace clear anhydrite
2960 gray, green and red shale, some tan finely crystalline lime
2965 same, slight increase in lime, some argillaceous
2975 green, gray and red shale, light buff finely granular lime
2985 gray, tan dense to finely granular slightly argillaceous lime, green & red shale
3000 tan dense to granular lime, increase red and gray shale, trace anhydrite
3012 same, decrease in shale
3022 light cream tan semi crystalline semi porous lime, water
3034 light tan dense to finely granular lime has slight green tinge
dark green gray shale
3044 light tan finely granular to crystalline lime, some finely oolitic porous water
3055-65 same, finely oolitic porous, water
3072 light to medium tan finely granular lime
3080 same, red shale
3085 green and red shale, tan dense dull lime, some clear anhydrite
3098 tan oolitic porous lime, fine oolites, water
3106 same
3113 same, trace red shale
3119 gray, tan argillaceous fossiliferous lime, red and gray shale
3121 gray tan argillaceous fossiliferous lime, black shale
3130 gray tan argillaceous fossiliferous semi porous lime
3139 medium gray argillaceous lime
3144 light gray dense to finely granular lime, has slight green tinge
3151 same, green, gray and brown shale 70%
3131-50 medium gray calcareous shale and argillaceous lime
3165 gray argillaceous fossiliferous lime
3173 same, small fusulinids, crinoids
3181 same abundant fusulinids, black bryozoans, brachiopods, crinoids
3190 same, medium gray calcareous shale 50%
3196 light gray tan dense dull lime, soft chalky
3205 same, gray argillaceous lime, medium to dark gray shale 40%
3213 medium gray argillaceous fossiliferous lime large fusulinids, spines,
pieces medium gray opaque fossiliferous spicular chat
3225 same abundant large fusulinids, increase fossiliferous chat
3235 same, increase in large fusulinids, no chat, trace gray shale
3246 same, light to medium tan fossiliferous lime
3256 same, brachiopods, spines medium gray shale 50%
3260 medium gray shale, gray dense to crystalline argillaceous fossiliferous lime
3270 light green gray calcareous shale, black fissile shale
3276-85 same, gray argillaceous lime
3292 same
3300 medium green flaky shale
3308 same, some dark gray shale

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- 3313 dark gray fissile shale
 3321 medium gray calcareous shale, light to medium gray tan fossiliferous lime, some argillaceous
 3328 same, dark gray shale
 3332 dark gray fissile shale, gray tan slightly argillaceous lime
 3338 same, light gray dense lime
 3343 same, light gray dense lime
 3348 dark gray shale, gray tan dense lime
 3356 dark gray shale, medium gray argillaceous fossiliferous lime, fusulinids
 3362 same, decrease lime
 3375 medium gray soft calcareous shale
 3380 medium gray coarse micaceous sandy shale
 3390 same, medium gray shale
 3395 medium and dark gray shale
 3402-20 same
 3423-34 dark gray fissile shale
 3441-45 black fissile shale
 3450 same, some tan dense platy lime
 3453 light tan dense to finely granular lime, black fissile shale
 3458 gray argillaceous fossiliferous lime, trace dark gray shale
 3463 same, increase dark gray shale
 3469 same, tan finely granular lime
 3477 light gray slightly argillaceous lime, dark gray fissile shale, some green gray shale
 3483 light gray slightly argillaceous lime, black fissile shale
 3490 light tan fossiliferous lime abundant fusulinids, some gray and green gray shale
 3500 gray tan fossiliferous argillaceous lime, fusulinids, gray and green gray shale
 3510 gray and tan dense flaggy argillaceous lime, pieces micaceous, abundant ~~fusulinids~~ bryozoans, gray coarse micaceous shale, lime and shale appear reworked
 3519 gray argillaceous fossiliferous lime, gray micaceous shale
 3528 gray argillaceous fossiliferous lime, crinoids, spines, small fusulinids
 medium gray calcareous shale
 3535 dark gray sandy micaceous shale, light gray dense to granular lime, pieces gray micaceous sand
 3542 same, lime argillaceous
 3549 medium to dark gray shale, some gray argillaceous fossiliferous lime, bryozoans
 3453 medium to dark gray shale, has slight green tinge
 3560-70 medium to dark gray shale
 3575-80 medium to dark gray shale, increase black fissile shale
 3587 same, some medium gray argillaceous lime
 3593 dark green gray soft flaky shale, light tan dense platy lime
 3600 gray tan dense platy lime, bryozoans, dark green gray shale
 3608 gray tan dense to granular lime, some argillaceous, decrease green gray shale
 3615 dark gray fissile shale, gray tan argillaceous fossiliferous finely oolitic porous lime
 3620 medium gray white mottled fossiliferous spicular chat, gray fossiliferous lime
 medium gray soft flaky shale
 3625 medium to dark gray soft flaky shale, some gray argillaceous lime
 3630 medium tan semi crystalline fossiliferous lime, medium gray flaky shale
 3635 " " " " " " some " " " "
 3643 " " " " " " some semi porous, some medium gray shale
 3650 same, crinoids, fusulinids, semi porous
 3656 light gray tan semi crystalline fossiliferous lime, some slightly argillaceous, few pieces oil stained fusulinids, crinoids, pieces light gray chat
 3561 same

- 3667-70 light gray tan dense to finely granular lime, some oil stained, some finely oolitic porous, water
- 3670-75 light gray tan finely granular semi porous lime, water stain
- 3680 gray tan slightly argillaceous fossiliferous lime, pieces show dead oil, some gray shale
- 3686 gray tan slightly argillaceous fossiliferous lime, pieces tan spicular chat, light gray fine micaceous sand
- 3693 same, gray shale
- 3694 medium gray shale, light tan dense dull lime
- 3700 light cream tan dense to finely granular lime, some crystalline semi porous
- 3709-15 same, crinoids, pieces white chat
- 3725 tan opaque chat, tan dense to semi crystalline lime
- 3738 light tan dense to finely granular lime, white and tan opaque chat
- 3747 same
- 3752 same, light tan chat
- 3761 light cream tan semi crystalline lime abundant fusulinids
- 3670 tan semi crystalline fossiliferous semi porous lime, some oil stain, white opaque chat
- 3780-90 same abundant fusulinids, trace gray shale
- 3800 same, trace black shale
- 3813 light cream tan semi crystalline lime, fusulinids, white chat, medium gray calcareous shale
- 3820 same, lime dense clear vitreous, white chat, medium gray calcareous shale
- 3830 light cream tan semi crystalline lime, some oolitic dense, medium green gray shale 50%
- 3835 same, fusulinids, white chat, medium green gray shale 50%
- 3840 light cream tan dense platy lime, fusulinids, increase white chat, medium green gray shale, pyrite
- 3845 light tan dense to crystalline clear vitreous lime, some light tan clear chat decrease gray shale
- 3853 same, no chat
- 3863 medium gray shale, tan semi crystalline lime, trace red shale, pyrite
- 3668 light tan dense to semi crystalline lime, trace white chat, gray and red shale, pyrite
- 3680 same, few free oolites
- 3688 light tan clear chat, tan dense to semi crystalline lime, red shale 3% trace green shale
- 3691 light tan dense to semi crystalline lime, some clear crystalline, light tan clear chat, decrease red shale
- 3900 tan dense to semi crystalline lime, some clear crystalline, red shale 15%
- 3905 medium tan dense to crystalline lime, small fusulinids, green shale, decrease red shale
- 3910 medium green gray drab shale, some red shale, tan dense clear lime
- 3915 green gray drab soft flaky shale, trace red shale
- 3919-25 same, light cream tan dense clear platy to semi crystalline lime
- 3940 green gray drab and some red shale, trace light cream tan dense to crystalline vitreous lime
- 3945 same, slight increase light cream tan dense to crystalline vitreous lime
- 3958 same, light cream tan dense to crystalline vitreous lime 20%

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Sec 12-13-24th, Trego County, Kansas
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McNeil

- 4007-15 light cream tan dense to crystalline lime, gray and brown shale
4020 red shale, dark gray shale, has light green streaks, tan dense lime
4028 same, increase light cream tan dense to crystalline lime
4030 same, increase red shale, decrease gray shale
4035 same
4040 maroon shale predominant
4045 olive green shale predominant, some maroon shale
4052 light gray tan fine crystalline lime, few pieces oolitic semi porous
some red shale
4063 medium green gray soft flaky shale
4070 same, red shale 50%
4077 dark red shale, tan oolitic dense clear vitreous lime 30%
4085 green gray and red mottled shale
4095 medium green gray soft flaky shale
4100 same, pyrite
4107 same, few pieces red stained lime
4111 light gray soft shale, tan semi crystalline lime 30%, some stained and
reworked
4122 light green gray flaky shale, some red stained argillaceous lime
4154 same, some red shale
4161 same, increase red shale 60%
4166 red shale, tan semi crystalline lime, some red stained
4171 same, some green gray shale
4177 same
4186 same, increase green gray shale 50%

Top Ft Riley 2717
Base Florence Flint 2815

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Hall #1 Deines

Sec 12-13-24W Trego County, Ks

Elevation 2478'

McNeil

- 4186-88 red shale, some green gray shale, tan finely granular lime 10%
4191 same, decrease green gray shale, some red stained lime
4195 red shale, tan semi crystalline lime 10%, some red stained, trace green gray shale
4199 same, green gray shale 20%
4205 maroon shale
4208 same
4210 same, some brown shale
4218 same, tan dense lime 50%
4225 same, tan dense lime 60%, some red stained
4230 same, decrease in lime
4235 tan dense lime, red shale, trace pink chat
4240 same, green gray shale 20%
4246 same, lime 75%
4252 red shale, tan dense lime, green shale, no chat
4257 gray tan dense and semi crystalline lime, has green tinge
4263 same
4373 gray dense lime, has green tinge
4278 same, some argillaceous
4285 same, increasingly argillaceous
4290 same, red and green shale
4294 gray argillaceous lime, gray and red shale
4302 dark gray shale, gray argillaceous lime, red shale
4310 same, increase dark gray shale
4320 light tan dense lime, gray argillaceous lime, dark gray shale, fusulinids
4330 light gray and tan dense lime, some argillaceous
4334 medium gray argillaceous lime, medium gray calcareous shale
4338 same, increase dark green gray shale, fusulinids
4343 dark green gray calcareous shale, tan clear dense platy lime, some crystalline
4355 same
4360 same, lime slightly argillaceous, few small angular quartz grains
4368 red and green sandy conglomeratic shale, conglomeratic sandy lime, quartz grains
4375 same, increase angular quartz grains, no red shale
4380 same, increase argillaceous conglomeratic lime
4385 same
4391 same, tan dense lime
4398 red conglomeratic shale, tan lime, some red stained, angular quartz grains trace light tan chat, some red hematite, much limonite stain
4404 same, increase red shale

Top Ft Riley 2717

Base Florence Flint? 2815

Top Conglomerate 4357

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Hall #1 Deines
Shc 12-13-24W Trego County, Kansas
Elevation 2478'

4410-14 light tan finely granular lime
4418 same, trace light tan chat
4425 same, increase chat, lime, dolomitic
4430 light tan dolomitic lime, white and light tan chat
4437 same
4445 light tan finely granular dolomite
4455 same, white and light tan chat
4465 same
4470 same, increase chat
4476 same
4481 same
4487 same
4495 same, increase white chat
4500 same, white chat 75%

Top Fort Riley 2717
Base Florence Flt 2815
Top Conglomerate 4357
Top Chat 4409

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- 4500-08 white to light tan opaque to semi clear chat, white to light tan dense to finely granular cherty lime
- 4512-16 same, some light tan dense semi clear lime
- 4522 white semi clear chat, white to light tan cherty lime
- 4530 same, tan finely granular semi clear lime
- 4538 light tan dense semi clear to finely granular lime, some light tan chat
- 4551 light cream tan dense to finely granular semi clear lime
- 4559 same, light tan clear crystalline crumbly lime
- 4565-75 light tan clear finely crystalline soft crumbly lime
- 4589-95 white to light cream tan coarsely crystalline clear lime
- 4603 same, gray brown granular sugary lime, slight oil stain
- 4610 light brown dense blocky lime, pyrite
- 4620 same, few sand grains, glauconite, phosphate pebbles
- 4628 medium gray granular argillaceous lime
- 4640 same, medium gray and green gray shale, some brown shale
- 4645 light tan clear finely crystalline lime, some yellow and red stained, few sand grains
- 4652 light tan clear finely crystalline lime, red stained, light tan dense lime
- 4660-65 light tan clear finely crystalline lime, trace green gray shale
- 4670 same, increase light tan dense lime, some sandy
- 4674 light tan dense clear lime, light tan clear chat
- 4678 medium green gray shale, light tan dense lime, pyrite
- 4685 light tan dense to crystalline clear lime, some yellow stained
- 4694 light tan dense to crystalline clear lime, some pink, pieces white chat
- 4700 same
- 4707 white to light tan clear crystalline lime, slightly dolomitic
- 4714 white clear crystalline dolomitic lime, some pink tinged
- 4724 same, some sandy, trace red shale
- 4731-39 light tan dense to semi crystalline lime, some red and yellow stained
- 4747-54 same, small rounded sand grains
- 4759 light tan to pink clear crystalline lime, trace red shale
- 4767 white to light tan dense and crystalline clear lime, some pink and yellow stained, trace white clear chat
- 4773 white dense to finely crystalline lime, some red stained, light buff opaque chat
- 4773-73 white to light tan dense to finely crystalline lime, some red stained, trace light tan chat
- 4790 white clear finely crystalline dolomitic lime
- 4800-11 white clear finely crystalline lime, some dolomitic
- 4821 same, some has pink tinge
- 4830-41 white clear crystalline dolomite, few rounded sand grains
- 4851 light tan clear crystalline dolomite, light green shale, increased rounded sand grains
- 4853-57 light tan clear crystalline dolomite, large free oolites, increase sand grains light green shale partings

Top Anhydrite	1966
Top Ft Riley	2717
Base Florence Flint	2815
Top Lansing	3878 ?
Top Conglomerate	4357
Top Miss.	4409
Top Viola	4678 ?
Top Siliceous	4845
T D	4857
D&A	

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