

CORE DESCRIPTION

Kewanee #3 Strick

- Core No. 1 3320-35
- 3320-21 Shale, gray micaceous pyritic scattered spores.
- 3321-22 Same as above.
- 3322-23 Same as above.
- 3323-24 Same as above.
- 3324-25 As above with abundant spores.
- 3325-26 Dolomite, tan to buff very fine crystalline, abundant good inter-crystalline porosity with numerous small vugs, excellent saturation. 3325(-2004) Top of Viola.
- 3326-27 Same as above.
- 3327-28 Same as above.
- 3328-29 Same as above.
- 3329-30 Same as above.
- 3330-31 Dolomite, brown tight, very fine crystalline, argillaceous with streaks brown to maroon shale.
- 3331-32 As above, dolomite being pyritic and more coarsely crystalline with large rhombs scattered vugular porosity, scattered saturation, some heavy black residuum.
- 3332-33 Dolomite, coarsely crystalline, scattered fair vugular porosity, fair saturation, appears darker than found in upper portion of core.
- 3333-34 Brown very fine crystalline, tight argillaceous very brown shale streaks.
- 3334-35 Dolomite, gray to buff, very fine crystalline with scattered coarse crystalline, fair inter-crystalline and excellent vugular porosity. Good saturation.

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Core No. 2 3335-47

- 3335-36 Dolomite, very fine to medium crystalline, gray to buff, fair to good inter-crystalline, good saturation, scattered vugs.
- 3336-37 Dolomite, white to buff, very coarse crystalline, excellent vugular porosity, good saturation.
- 3337-38 As above.
- 3338-39 Dolomite, gray, very fine to coarse crystalline, tight, rare scattered shows of oil, shale parting indicated.
- 3339-40 Dolomite, white to buff, fair to medium crystalline, excellent inter-crystalline and vug porosity. Good saturation.
- 3340-41 Dolomite, coarse to very coarse inter-crystalline and vugular porosity. Even saturation which appears darker than above.
- 3341-42 Dolomite, tan to buff, coarse to very fine inter-crystalline, tight, very scattered vugular porosity containing light saturation.
- 3342-43 Dolomite, fine to medium crystalline, excellent inter-crystalline vugular porosity, very weak show of oil.
- 3343-44 Dolomite, buff to brown, very fine to fine crystalline, numerous large vugs, light show of oil.
- 3344-45 Dolomite, buff to brown, fine to coarse crystalline, scattered very good inter-crystalline and vugular porosity, light saturation.
- 3345-46 Same as above.
- 3346-47 Same as above, poor show.

Core No. 3 3347-80

- 3347-48 Dolomite, medium to coarse crystalline, extremely vugular, excellent porosity, good show.

Core Description Cont.

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- 3348-49 Dolomite, white to buff, very fine to fine crystalline, scattered vugs, dark stain and saturation.
- 3349-50 Dolomite as above, tight, rare vugs containing scattered dark stain.
- 3350-51 Sand, very fine to medium grain, extremely tight, slightly dolomitic containing dark brown to black residual saturation, some as asphaltic. 3350(-2029) top of Simpson.
- 3351-52 Sand, white medium grained, contains scattered black residual stain, fair granular porosity.
- 3352-53 Same as above.
- 3353-54 As above, tighter and some phosphate nodules, slightly dolomitic.
- 3354-55 Same as above, very fine white to gray, tight, dolomitic, thin shale seams.
- 3355-56 Sand, white to gray, very fine grain and silty. Shale streaks.
- 3356-57 Sand, white to gray, very fine to fine grain, tight, very slightly dolomitic. Shaly.
- 3357-58 Same as above.
- 3358-59 Same as above.
- 3359-60 Same as above.
- 3360-61 Sand, white to gray, very fine to silty, shale streaks.
- 3361-62 Shale, green gray, scattered streaks sand.
- 3362-63 Sand, white, clean, very friable, very fine to fine grain, rounded.
- 3363-64 Sand, white to gray, fine to medium grain, rounded. Less friable than above.
- 3364-65 Same as above.

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- 3365-66 Sand, white, fine grain quartzitic, clean.
- 3366-67 Sand, white, fine grain, tight with scattered fair porosity.
- 3367-68 Same as above.
- 3368-69 Sand, white, very fine to fine, friable. Phosphatic.
- 3369-70 As above. Shaley and pyritic.
- 3370-71 Sand, white, fine to medium. Tight to friable.
- 3371-72 Same as above. Quartzitic.
- 3372-73 Same as above. Quartzitic.
- 3373-74 Sand, gray white, very fine to silty. Tight, pyritic.
- 3374-75 Same as above.
- Skip 3375-76
- 3376-77
- 3377-78
- 3378-79
- 3379-80

Core No. 4 3380-3440

- 3380-81 Sand, grain gray, very fine to fine. Tight and very shaly.
- 3381-82 Same as above.
- 3382-83 Not shaly but abundant pyritic glauconite and phosphatic nodules.
- 3383-84 Same as above.
- 3384-85 Shale, gray brown.

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- 3385-86 Slightly sandy.
- 3386-87 Shale, greenish gray. Rare sand grain.
- 3387-88 Same as above.
- 3388-89 Same as above.
- 3389-90 Same as above.
- 3390-91 Same as above.
- 3391-92 Same as above.
- 3392-93 Shale, smooth green with included sand nests.
- 3393-94 Sand, white and gray, clean, friable, fine to medium. Good apparent porosity. Good even light stain.
- 3394-95 As above.
- 3395-96 Sand as above but containing non-stained streaks and shale partings.
- 3396-97 Sand, white, dirty to silty, very fine to fine grain, rare scattered stain and traces asphaltic residuum.
- 3397-98 Sand as above.
- 3398-99 No show with shale streaks.
- 3399-3400 Sand is more shaly.
- 3400-01 Sand, white, very fine to fine, fairly tight with very scattered fair shows. Some shale partings.
- 3401-02 Shaly sand and sandy shale.
- 3402-03 Same as above.
- 3403-04 Shale, greenish gray.
- 3404-05 Slightly sandy.
- 3405-06 As above.
- 3406-07 With streaks white silty sand and pyritic.

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- 3407-08 No sand.
- 3408-09 As above.
- 3409-10 White sandy streaks.
- 3410-11 Sand increases.
- 3411-12 Sand, white, very fine to coarse, poorly sorted. Porosity filled with white clay like material.
- 3412-13 Sand, clean, very fine to fine grained, fairly uniform, fair apparent porosity. Good even light stain.
- 3413-14 As above. Rare spots clay like material.
- 3414-15 As above but tighter.
- 3415-16 As above. Staining and saturation appears weaker.
- 3416-17 Sand becoming more silty. Rare scattered stain.
- 3417-18 As above with shale streaks.
- 3418-19 As above.
- 3419-20 Sand, very fine, uniform, tight. Some silty. Uniform poor light staining.
- 3420-21 Sand is white with only trace of light stain and some black residuum.
- 3421-22 Sand, very fine, uniform, tight with uniform good light staining. Rare spots green shale.
- 3422-23 As above with some unstained streaks.
- 3423-24 Sand, white and gray, very fine to fine, silty and shaly. Tight.
- 3424-25 As above with spots poor light stain.
- 3425-26 Sand almost quartzitic with no show.
- 3426-27 Shale, green gray.

Core Description Cont.

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- 3427-28 Sand, white, coarse, rounded to slightly round, with streaks dark stain. Numerous streaks gray shale.
- 3428-29 Sand, white and gray ranging from very fine to pebble size. Argilaceous and shaly.
- 3429-30 Sand as above. More shaly.
- 3430-31 Sand as above. Very tight. Some argilaceous but not as shaly. Scattered poor light stain.
- 3431-32 Sand, white, fine to medium, tight. Fair light stain with rare barren areas.
- 3432-33 Shale, green gray.
- 3433-34 As above.
- 3434-35 Sand, conglomeratic, tight, scattered fair light stain, argilaceous and shaly.
- 3435-36 Sand, very fine to coarse, white argilaceous. Scattered poor stain.
- 3436-37 Sand, fine to medium, tight, fair light stain with scattered barren argilaceous areas.
- 3437-38 Sand, white, very fine to fine, argilaceous. Tight. Glauconitic.
- 3438-39 Sand, conglomeratic and shaly. Tight.
- 3439-40 Sand, white, fine to coarse, argilaceous.

Core No. 5 3440-58

- 3440-41 Chert, oolitic, weathered. Top Weathered Arbuckle 3940(-2119).
- 3441-42 Sandy shale, green and shaly sand.
- 3442-43 Mostly white, very fine to coarse, argilaceous, shaly sand.

Core Description Cont.
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- 3443-44 Dolomite, gray buff, crypto crystalline to lithographic and extremely tight. Rare vugs containing slight shows.
- 3444-45 As above. No show.
- 3445-46 Dolomite, buff, fine crystalline, extremely tight.
- 3446-47 As above, pyritic.
- 3447-48 As above.
- 3448-49 Dolomite, buff, fine to medium, crystalline, tight with some scattered inter-crystalline and vugular porosity containing rare tar staining.
- 3449-50 As above.
- 3450-51 Dolomite, buff, fine to medium crystalline, tight.
- 3451-52 As above.
- 3452-53 As above, trace of shale.
- 3453-54 As above.
- 3454-55 As above.
- 3455-56 As above.
- 3456-57 Dolomite, buff, very fine crystalline to crypto crystalline, very tight and with streaks shale.
- 3457-58 White and gray, very fine sandy silt.

The following descriptions cover drilling samples from 3458 to total depth. No drilling time was available at the time these samples were described hence drilling time lag has not been considered in descriptions.

- 3458-60 Mostly cave and floaters.
- 3460-65 Dolomite, buff, very fine crystalline, fair inter-crystalline porosity.
- 3465-70 As above, with scattered fair oolitic porosity.

Core Description Cont.

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3470-75 Dolomite, very fine crystalline, tan to buff, mealy.

3475-81 As above with some brown, fine crystalline dolomite containing very scattered oolitic porosity.

Cores and Samples examined by:

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WSS:ih

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