

W2-C SW WELL FIELD PRODUCTION WELL SYSTEM

WELL 228

| *Depth (feet) | Lithologic Description |
|---------------|--|
| 0-10 | Limestone: dark yellowish orange 10 YR 6/6 and yellowish gray 5Y 8/1; vuggy; bi-valves. |
| 10-20 | Limestone: medium gray N5; fossiliferous micrite; vuggy; high porosity. |
| 20-70 | Sandy Clay: yellowish gray 5Y 7/2; soft to moderately hard. |
| 70-100 | Clay: olive gray 5Y 3/2; moderately hard. |
| 100-130 | Limestone: light gray N7; high intergranular vuggy porosity; biomicrite; bi-valves; trace of phosphate. |
| 130-150 | Limestone: yellowish gray 5Y 8/1; high porosity; trace of silty clay. |
| 150-160 | Shell Fragments (70%): predominately bi-valves; poorly sorted. Limestone (30%): very light gray N8; friable; inbedded fine phosphate particles. |
| 160-180 | Limestone: yellowish gray 5Y 7/2; friable; micrite high intergranular vuggy macroporosity. |
| 180-190 | Limestone (80%): yellowish gray 5Y 7/2; friable; biomicrite; high intergranular vuggy macroporosity. Clayey Sand (20%): yellowish gray 5Y 7/2; well sorted. |
| 190-200 | Silty Clay (90%): grayish olive 10 Y 4/2; predominately soft with some moderately hard to hard sections. |
| 200-210 | Marl (60%): yellowish gray 5Y 7/2; abundant very fine, well sorted phosphate particles. Limestone (40%): yellowish gray 5Y 7/2; fossiliferous. |
| 210-220 | Limestone (70%): yellowish gray 5Y 8/1; fossiliferous micrite; moderate amount of inbedded very fine phosphate. Marl (30%): yellowish gray 5Y 8/1; moderate hardness. |
| 220-240 | Marl: yellowish gray 5Y 7/2 to light olive gray 5Y 5/2; ~5% limestone. |
| 240-270 | Limestone (50%): light olive gray 5Y 5/2; hard; moderate porosity. Marl (50%): light olive gray 5Y 5/2; soft to medium soft. |

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| 270-300 | Marl: very light gray N8; soft; abundant very fine phosphate. |
| 300-340 | Limestone (50%): light olive gray 5Y 5/2; hard; moderately low apparent porosity. Marl (50%): light olive gray 5Y 5/2; soft to medium soft. |
| 340-360 | Limestone (70%): light olive gray 5Y 5/2; hard; moderately low apparent porosity. Marl (30%): light olive gray 5Y 5/2; soft to medium soft. |
| 360-430 | Limestone: very light gray N8; moderately high porosity; trace of phosphate; vuggy. |
| 430-440 | Marl: white N9 to very light gray N8; very friable; ~5% limestone. |
| 440-495 | Limestone: white N9 to very light gray N8; biomicrite; moderate to high porosity; few small vugs; trace of phosphate. |
| 450-500 | xxx Limestone: white N9 to very light gray N8; fossiliferous micrite; moderately friable; moderate to high porosity; few small vugs; trace of phosphate. |
| 500-550 | Limestone: white N9 to very light gray N8; biomicrite; moderately friable; moderate to high porosity; abundant small vugs; trace of coarse phosphate. |
| 550-560 | Limestone: white N9; fossiliferous micrite; moderately friable; moderate porosity; small amount of inbedded very fine phosphate. |
| 560-570 | Limestone: very light gray N8; fossiliferous sparmicrite; moderately porous; trace of coarse phosphate flakes; friable. |
| 570-590 | Limestone: yellowish gray 5Y 7/2 and light gray N7; fossiliferous sparmicrite; high porosity; few small vugs; trace of coarse phosphate flakes; friable. |
| 590-620 | Limestone: very light gray N8; micrite; moderate to low porosity; friable. |

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Lithologic Description

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|---------|--|
| 620-630 | Limestone: pale yellowish brown 10YR 6/2 to light brown gray 5YR 6/1; fossiliferous micrite; hard; moderate amount of fine to medium inbedded phosphate. |
| 630-640 | Limestone: very light gray N8; micrite; moderate to low porosity; friable. |
| 640-650 | Limestone: pale yellowish brown 10YR 6/2 to light brown gray 5YR 6/1; fossiliferous micrite; hard; moderate amount of fine to medium inbedded phosphate. |
| 650-660 | Limestone: very light gray N8; micrite, moderate to low porosity. |
| 660-715 | Limestone: yellowish gray 5Y 8/1; fossiliferous micrite; friable; high porosity; ~5% dolomite and phosphate. |

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