

W2-C SW WELL FIELD PRODUCTION WELL SYSTEM

WELL 231

*Depth (feet)	Lithologic Description
0-20	Sand: pale greenish yellow 10Y 8/2; fine; well sorted; trace of phosphate; trace of bi-valve fragments.
20-30	Shell Fragments (50%): medium light gray N6; predominately bivalves; unconsolidated. Limestone (50%): yellowish gray 5Y 7/2; very friable; high intergranular macroporosity.
30-110	Silty Clay: greenish gray 5GY 6/1; soft, plastic.
110-120	Silty Clay (50%): greenish gray 5GY 6/1; soft, plastic. Limestone (40%): olive gray 5Y 6/1; moderate intergranular porosity; bi-valves. Phosphate (10%): coarse; sub-angular; moderately well sorted.
120-140	Limestone (60%): very light gray N8; inbedded fine phosphate particles; friable. Shell Fragments (40%): coarse to fine; moderately well sorted.
140-160	Limestone (75%): very light gray N8; inbedded fine phosphate particles; friable. Shell Fragments (15%): coarse to fine; moderately well sorted. Clay (10%): olive gray 5Y 3/2; soft.
160-200	Limestone (60%): very light gray N8; inbedded fine phosphate particles; friable. Shell Fragments (40%): coarse to fine; moderately well sorted.
200-210	Clay (70%): light greenish gray 5GY 8/1; very soft; abundant very fine phosphate particles. Limestone (30%): very light gray N8; inbedded fine phosphate particles; friable.
210-220	Clay (10%): olive gray 5Y 3/2; soft.
220-230	Clay: light greenish gray 5GY 8/1; very soft; abundant very fine phosphate particles.

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*Depth (feet)	Lithologic Description
230-240	Marl (50%): very light gray N8; soft. Limestone (50%): medium gray N5; very hard; low intergranular macroporosity.
240-250	Marl (50%): very light gray N8; soft.
250-260	Marl (50%): very light gray N8; soft. Limestone (50%): medium gray N5; very hard; low intergranular macroporosity.
260-280	Limestone (75%): medium gray N5; micrite; very hard; low intergranular macroporosity. Marl (25%): very light gray N8; soft.
280-310	Marl: very light gray N8; soft.
310-330	Marl (80%): very light gray N8 and light gray N7; soft to very soft. Clay (20%): olive gray 5Y 3/2; very soft.
330-360	Limestone (90%): yellowish gray 5Y 8/1; fossiliferous micrite; very hard; low apparent porosity; moderate amount of inbedded very fine phosphate. Marl (5%): yellowish gray 5Y 8/1; moderate hardness. Clay (5%): pale olive 10Y 6/2; soft.
360-380	Limestone: very light gray N8; biomicrite; moderately soft; embedded very fine phosphate particles; trace of bivalves and bivalve particles.
380-400	Marl (90%): very light gray N8 and light gray N7; soft to very soft. Clay (10%): olive gray 5Y 3/2; very soft.
400-410	Limestone (90%): very light gray N8 and yellowish gray 5Y 8/1; fossiliferous micrite; hard; low apparent porosity; trace of inbedded fine phosphate. Marl (5%): yellowish gray 5Y 8/1; moderately soft. Clay (5%): pale olive 10Y 6/2; moderately soft.
410-430	Limestone: white N9 to very light gray N8; biomicrite; moderately hard; vuggy; high apparent porosity.

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*Depth (feet)

Lithologic Description

430-440	Limestone: white N9 to very light gray N8; biomicrite; moderately friable; moderate to high porosity; abundant small vugs; trace of coarse phosphate.
440-450	Limestone: yellowish gray 5Y 8/1 to light gray N7; biomicrite; moderately soft; vuggy; high apparent porosity.
450-480	Limestone: white N9 to yellowish gray 5Y 8/1; moderately hard; biomicrite; vuggy; high apparent porosity; trace of marl; trace of phosphate.
480-500	Limestone: white N9 to very light gray N8; moderately hard; biomicrite; moderate apparent porosity; vuggy; trace of dolomite.
500-510	Limestone: very light gray N8; moderately soft; biomicrite; moderate apparent porosity; vuggy.
510-530	Limestone: very light gray N8; moderately hard; fossiliferous micrite; moderate apparent porosity; vuggy..
530-550	Limestone: white N9 to light gray N7; hard; fossiliferous micrite; high apparent porosity; very vuggy; trace of bivalves and crinoid stems; trace of dolomite.
550-560	Dolomite: yellowish gray 5Y 8/1; very hard; low porosity.
560-570	Dolomite (50%): yellowish gray 5Y 8/1; very hard; low porosity. Limestone (50%): light gray N7 and medium light gray N6; micrite; moderately hard; moderate apparent porosity, moderately vuggy; trace of phosphate.
570-580	Limestone: light gray N7 and medium light gray N6; micrite; moderately hard; moderate apparent porosity, moderately vuggy; trace of phosphate.
580-600	Limestone: medium light gray N6 and medium gray N5; micrite; soft; high apparent porosity, abundant fine inbedded phosphate.

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600-620	Limestone (85%): medium light gray N6 and medium gray N5; micrite; soft; high apparent porosity, abundant fine inbedded phosphate. Dolomite (15%): yellowish gray 5Y 8/1; very hard; low porosity.
620-630	Limestone: light gray N7 and medium light gray N6; micrite; soft; high apparent porosity, abundant fine inbedded phosphate.
630-650	Limestone: light gray N7 and medium light gray N6; biomicrite; moderately soft; high apparent porosity, abundant fine inbedded phosphate.
650-680	Limestone (85%): yellowish gray 5Y 8/1; biomicrite; soft; high apparent porosity, moderate amount of inbedded phosphate particles.
680-690	Limestone: white N9 to very light gray N8; very soft; high apparent porosity, trace of bivalve fossils.
690-703	Limestone (60%): white N9 to very light gray N8; very soft; high apparent porosity. Marl (40%): yellowish gray 5Y 8/1; soft, silty.

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