

## W-2C SW WELLFIELD PRODUCTION WELL SYSTEM

### WELL 232

*Depth (feet)	Lithologic Description
0-10	Sand: pale greenish yellow 10Y 8/2; fine; well sorted; trace of phosphate; trace of bi-valve fragments.
10-20	Silty Sand (80%): pale greenish yellow 10Y 8/2; fine; well sorted. Shell fragments (20%): very light gray N8; bi-valves.
20-35	Clay (50%): greenish gray 5GY 6/1; medium hardness; silty.
35-100	Clay: olive gray 5Y 3/2; soft.
100-110	Clay (90%): olive gray 5Y 3/2; soft. Limestone (10%): light gray N7; high intergranular vuggy porosity; biomicrite; bi-valves; trace of phosphate.
110-120	Clay (60%): olive gray 5Y 3/2; soft. Limestone (40%): light gray N7; high intergranular vuggy porosity; biomicrite; bi-valves; trace of phosphate.
120-160	Limestone (70%): light gray N7; high intergranular vuggy porosity; biomicrite; bi-valves; trace of phosphate. Clay (30%): pale olive 10Y 6/2; soft..
160-170	Clay (50%): olive gray 5Y 3/2; soft. Limestone (50%): yellowish gray 5Y 7/2; friable; high intergranular vuggy macroporosity.
170-180	Limestone (80%): yellowish gray 5Y 7/2; friable; biomicrite; high intergranular vuggy macroporosity. Sandy Clay (20%): yellowish gray 5Y 7/2; soft.
180-190	Limestone: yellowish gray 5Y 7/2; fossiliferous micrite; high apparent porosity; trace of phosphate.
190-200	Marl (60%): yellowish gray 5Y 7/2; abundant very fine, well sorted phosphate particles. Limestone (40%): yellowish gray 5Y 7/2; fossiliferous micrite.
200-210	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.

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210-220	Clay (90%): pale olive 10Y 6/2; soft. Limestone (5%): yellowish gray 5Y 8/1; fossiliferous micrite. Marl (5%): yellowish gray 5Y 8/1; moderate hardness.
220-230	Clay (50%): pale olive 10Y 6/2; soft; abundant fine phosphate particles. Marl (50%): light olive gray 5Y 5/2; soft to medium soft.
230-240	Marl (90%): very light gray N8; soft; abundant very fine phosphate. Limestone (10%): very light gray N8; biomicrite.
240-250	Marl (80%): very light gray N8; soft; abundant very fine phosphate. Limestone (15%): very light gray N8; fossiliferous micrite; chrinoid stems. Clay (5%): pale olive 10Y 6/2; soft.
250-260	Marl (90%): very light gray N8; soft; abundant very fine phosphate. Limestone (10%): very light gray N8; biomicrite.
260-270	Limestone (70%): very light gray N8; biomicrite. Marl (30%): very light gray N8; soft; abundant very fine phosphate and phosphate flakes. (rust from drill stem?)
270-290	Marl (50%): very light gray N8; soft; abundant very fine phosphate. Limestone (50%): very light gray N8; biomicrite.
290-300	Marl (90%): very light gray N8; soft; abundant very fine phosphate. Limestone (15%): very light gray N8; fossiliferous micrite. Clay (5%): pale olive 10Y 6/2; soft.
300-310	Limestone: white N9 to very light gray N8; friable; high apparent porosity; vuggy; very soft; abundant very fine phosphate particles.

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310-320	Limestone (60%): white N9 to very light gray N8; friable; high apparent porosity; vuggy; very soft; abundant very fine phosphate particles. Marl (40%): yellowish gray 5Y 8/1; moderately soft; abundant very fine phosphate particles.
320-330	Marl (80%): light gray N7 and yellowish gray 5Y 8/1; soft; abundant very fine phosphate particles. Limestone (20%): white N9 to very light gray N8; friable; vuggy; very soft; abundant very fine phosphate particles.
330-340	Marl (70%): light gray N7 and yellowish gray 5Y 8/1; soft; abundant very fine phosphate particles and trace of phosphate flakes. Limestone (20%): white N9 to very light gray N8; friable; vuggy; very soft; abundant very fine phosphate particles. Clay (10%): light bluish gray 5B 7/1: silty; soft.
340-350	Marl (70%): light gray N7 and yellowish gray 5Y 8/1; soft; abundant very fine phosphate particles and trace of phosphate flakes. Limestone (20%): white N9 to very light gray N8; friable; vuggy; very soft; abundant very fine phosphate particles. Sand (10%): light bluish gray 5B 7/1: very fine; silty; soft.
350-380	Marl (70%): light gray N7 and yellowish gray 5Y 8/1; soft; abundant very fine phosphate particles and trace of phosphate flakes. Limestone (20%): white N9 to very light gray N8; friable; vuggy; very soft; abundant very fine phosphate particles. Clay (10%): light bluish gray 5B 7/1: silty; soft.
380-400	Marl (70%): light gray N7 and yellowish gray 5Y 8/1; moderately soft; trace of fine phosphate particles. Limestone (30%): white N9 to very light gray N8; friable; vuggy; soft; high apparent porosity; abundant very fine phosphate particles.
400-410	Marl: light greenish gray 5GY 8/1; soft; trace of very fine phosphate particles; <5% Limestone.

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*Depth (feet)	Lithologic Description
410-430	Marl (80%): light greenish gray 5GY 8/1 and yellowish gray 5Y 8/1; soft; trace of very fine phosphate particles. Limestone (20%): very light gray N8; moderately soft; moderate apparent porosity.
430-460	Marl (80%): light gray N7; soft; abundant very fine phosphate particles. Limestone (20%): white N9 to very light gray N8; soft to moderately soft; moderate apparent porosity.
460-480	Limestone (70%): white N9 to very light gray N8; micrite; soft to moderately soft; moderate apparent porosity; trace of fine phosphate particles. Marl (30%): light gray N7; soft; abundant very fine phosphate particles.
480-490	Limestone (80%): white N9 to very light gray N8; micrite; soft to moderately soft; moderate apparent porosity; trace of fine phosphate particles. Marl (20%): light gray N7; soft; abundant very fine phosphate particles.
490-500	Limestone (50%): white N9 to very light gray N8; micrite; soft to moderately soft; moderate apparent porosity; trace of fine phosphate particles. Marl (50%): light gray N7; soft; abundant very fine phosphate particles.
500-520	Limestone: white N9 to very light gray N8 and pinkish gray 5YR 8/1; micrite; moderately soft; high apparent porosity; abundant fine phosphate particles.
520-540	Limestone: white N9 to very light gray N8; micrite; moderately soft; high apparent porosity; vuggy.
540-570	Limestone: white N9 to very light gray N8; biomicrite; moderately soft; high apparent porosity; fossiliferous.
570-590	Limestone: white N9 to very light gray N8 and pinkish gray 5YR 8/1; micrite; moderately soft; high apparent porosity; trace of fine phosphate particles.

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590-600	Limestone: white N9 to very light gray; micrite; moderately soft; vuggy; high apparent porosity.
600-620	Limestone: white N9 to light gray N7; biomicrite; soft; high apparent porosity; vuggy; trace of fine phosphate particles.
620-630	Marl (60%): white N9; moderately soft; abundant fine phosphate particles. Limestone (40%): white N9 to very light gray N8; vuggy; trace of fine phosphate particles.
630-640	Clay (90%): grayish green 10GY 5/2; moderately soft; sandy. Limestone (10%): very light gray N8; moderately vuggy.
640-650	Limestone: white N9 to very light gray N8 and light olive gray 5Y 5/2; biomicrite; soft; high apparent porosity.
650-660	Limestone: white N9; fossiliferous; soft; high apparent porosity.
660-680	Limestone: yellowish gray 5Y 8/1 and very light gray N8; biomicrite; moderately soft; vuggy; high apparent porosity.
680-690	Limestone: yellowish gray 5Y 8/1: micrite; moderately hard; very vuggy; high apparent porosity.
690-710	Limestone: yellowish gray 5Y 8/1 and very light gray N8; biomicrite; moderately soft; vuggy; high apparent porosity.

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