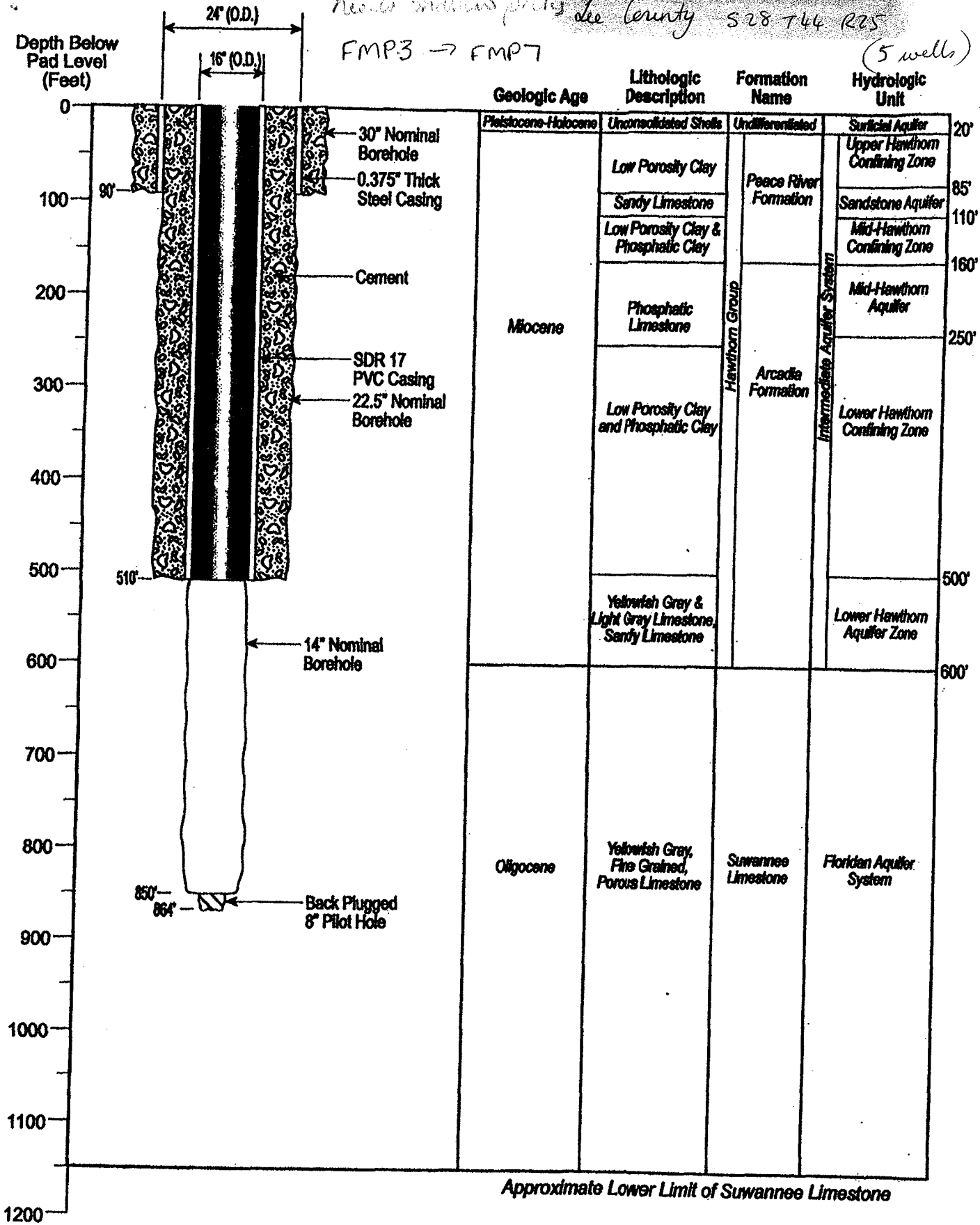


needs shallow parts Lee County S28 T44 R25

FMP3 → FMP7

(5 wells)



SCANNED

FIGURE 1 City of Fort Myers Well Completion Diagrams for Wells P5, P6, & P7

834000

832900

831600

830400

829200

32123

32124

32125

32126

32127

Fort Myers Artesian Aquifer Wellfield

465 775 CAS

465 775 FAS

465 775 FAS

475 800 FAS

465 775 FAS

Depth (feet bls)		Lithologic Descriptions				
From	To	Well P-3	Well P-4	Well P-5	Well P-6	Well P-7
0	10	Shells and shell fragments, unconsolidated	Shells and shell fragments, unconsolidated	Shells and shell fragments, unconsolidated	Shells and shell fragments, unconsolidated	Shells and shell fragments, unconsolidated
10	20	Same as above	Same as above	Same as above	Same as above	Same as above
20	30	Shells and shell fragments (85%); phosphate (10%); sandy limestone, yellowish gray (5Y 7/2), medium grained, medium porosity, moderately consolidated (5%)	Shells and shell fragments (85%); sandy limestone, yellowish gray (5Y 7/2), medium grained, medium porosity, moderately consolidated (10%); phosphate (5%)	Shells and shell fragments (75%); sandy limestone, yellowish gray (5Y 7/2), medium grained, medium porosity, moderately consolidated (5%); phosphate (20%)	Same as above	Same as above
30	40	Clay, light olive gray (5Y 5/2), low plasticity, low porosity	Clay, light olive gray (5Y 5/2), low plasticity, low porosity	Sandy clay, light olive gray (5Y 5/2), medium plasticity, low porosity	Sandy clay, light olive gray (5Y 5/2), medium plasticity, low porosity	Sandy clay, light olive gray (5Y 5/2), medium plasticity, low porosity
40	50	Same as above	Same as above	Clay, same as above	Same as above	Same as above
50	60	Same as above	Same as above	Same as above	Same as above	Same as above
60	70	Clay, olive gray (5Y 4/1), medium plasticity, low porosity, phosphatic	Clay, olive gray (5Y 4/1), medium plasticity, low porosity, phosphatic	Sandy clay, olive gray (5Y 4/1), high plasticity, low porosity	Same as above	Same as above
70	80	Sandy clay, grayish olive (10Y 4/1), medium plasticity, low porosity	Sandy clay, light olive gray (5Y 5/2), low plasticity, low porosity	Same as above, shell fragments (10%)	Same as above	Sandy limestone, medium light gray (N6), moderate consolidation, moderate porosity
80	90	Clay (90%), dark greenish gray (5GY 4/1), low plasticity, low porosity, phosphatic; shell fragments (10%), unconsolidated	Sandy limestone, light olive gray (5Y 5/2), medium grained, moderate porosity, moderate consolidation; shell fragments	Clay, (5Y 4/1), low plasticity, low porosity	Sandy limestone, light olive gray (5Y 5/2), medium grained, moderate porosity, moderate consolidation; shell fragments	Same as above

		3	4	5	6	7
90	100	Sandy limestone, light olive gray (5Y 5/2), medium grained, moderate porosity, moderate consolidation; shell fragments	Same as above	Sandy limestone, light olive gray (5Y 5/2), medium grained, moderate porosity, moderate consolidation; shell fragments	Same as above, no shell fragments	Same as above
100	110	Clay (90%), light olive gray (5Y 5/2), low porosity, moderate plasticity, trace of fine grained quartz sand; unconsolidated shell fragments (10%)	Clay (90%), light olive gray (5Y 5/2), low porosity, moderate plasticity, trace of fine grained quartz sand; unconsolidated shell fragments (10%)	Sandy limestone, light olive gray (5Y 4/1), medium grained, moderate porosity, moderate consolidation; shell fragments	Same as above	Same as above
110	120	Same as above, decrease clay to 80%, increase shell fragments to 20%	Same as above	Same as above	Same as above	Sandy limestone, light olive gray (5Y 4/1), medium grained, moderate porosity, moderate consolidation; shell fragments
120	130	Same as above, decrease clay to 60%, increase shell fragments to 40%	Same as above, decrease clay to 70%, increase shell fragments to 20%, add 10% sandy limestone, dark yellowish orange (10YR 6/6), medium grained, well consolidated, low porosity	Same as above, add shells (10%)	Clay, light olive gray (5GY 5/2), low plasticity, low porosity	Clay, light olive gray (5GY 5/2), low plasticity, low porosity
130	140	Clay (60%) pale olive (10Y 6/2), low porosity, moderate plasticity; limestone (40%), yellowish gray (5Y 8/1), low porosity, poorly consolidated	Clay, dark greenish gray (5G 4/1), low porosity, moderate plasticity	Same as above	Same as above	Same as above
140	150	Clay (80%), light olive gray (5Y 5/2), low porosity, moderate plasticity, trace of fine grained quartz sand; unconsolidated shell fragments (10%), sandy limestone (10%), dark yellowish orange (10YR 6/6), medium grained, well consolidated, low porosity	Same as above	Clay, dark greenish gray (5GY 4/1), low porosity, moderate plasticity	Same as above	Same as above

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150	160	Clay, dark greenish gray (5G 4/1), low porosity, high plasticity	Same as above, high plasticity	Same as above	Same as above	Limestone (60%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (40%), dark greenish gray (5G 4/1), low porosity, moderate plasticity; phosphate (10%)
160	170	Same as above	Same as above	Clay, dark greenish gray (5G 4/1), low porosity, low plasticity	Limestone (70%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (20%), dark greenish gray (5G 4/1), low porosity, moderate plasticity; phosphate (10%)	Clay, dark greenish gray (5G 4/1), low porosity, low plasticity
170	180	Same as above, phosphatic	Same as above	Same as above	Clay (70%) Same as above, phosphatic, sandy limestone (20%), greenish gray (5GY 6/1), moderate consolidation, low porosity, shell fragments (10%)	Limestone (60%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (40%), dusky yellow (5Y 6/4), low porosity, moderate plasticity; phosphate (10%)
180	190	Same as above, decrease clay to 70%, add limestone (30%), yellowish gray (5Y 7/2), low porosity, moderately consolidated	Same as above, decrease clay to 40%, add limestone (60%), yellowish gray (5Y 7/2), low porosity, moderately consolidated	Clay (50%) Same as above, phosphatic, sandy limestone (40%), greenish gray (5GY 6/1), moderate consolidation, low porosity, shell fragments (10%)	Same as above	Limestone (60%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (40%), yellowish gray (5Y 7/2), low porosity, moderate plasticity

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190	200	Clay (50%), dusky yellow (5Y 6/4), low porosity, moderate plasticity; limestone (40%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; phosphate (10%)	Clay (50%), dusky yellow (5Y 6/4), low porosity, moderate plasticity; limestone (40%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; phosphate (10%)	Same as above	Same as above	Same as above, increase limestone to 70%, decrease clay to 30%, phosphatic clay
200	210	Same as above, decrease clay to 10%, increase limestone to 80%	Same as above, increase clay to 40%, decrease limestone to 60%	Clay (50%), pale olive (10Y 6/2), low porosity, low plasticity, shell fragments (50%)	Limestone (60%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (40%), yellowish gray (5Y 7/2), low porosity, moderate plasticity, phosphatic	Same as above, increase limestone to 80%, decrease clay to 20%
210	220	Same as above	Same as above, decrease clay to 10%, increase limestone to 80%	Same as above	Same as above	Same as above
220	230	Limestone (80%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (20%), yellowish gray (5Y 7/2), low porosity, moderate plasticity	Limestone (70%), yellowish gray (5Y 7/2), low porosity, moderately consolidated; clay (30%), yellowish gray (5Y 7/2), low porosity, moderate plasticity	Same as above	Same as above	Same as above, shell fragments
230	240	Same as above, decrease limestone to 70%, increase clay to 30%	Same as above	Clay (80%), dark greenish gray (5GY 4/1), low porosity, moderate plasticity, shell fragments (20%)	Same as above	Same as above
240	250	Same as above	Same as above, increase limestone to 80%, decrease clay to 20%	Same as above	Same as above	Same as above, decrease limestone to 30%, increase clay to 70%
250	260	Same as above	Same as above, increase clay to 60%, decrease limestone to 40%	Sandy limestone, yellowish gray (5Y 7/2), phosphatic, poorly consolidated, high porosity	Same as above	Clay, yellowish gray (5Y 7/2), low porosity, moderate plasticity, phosphatic
260	270	Same as above	Same as above, decrease clay to 50%, increase limestone to 50%	Same as above	Same as above	Clay, pale olive (10Y 6/2), low plasticity, low porosity

	3	4	5	6	7	
270	280	Same as above	Same as above, decrease clay to 20%, increase limestone to 80%	Same as above	Clay, pale olive (10Y 6/2), low plasticity, low porosity	Same as above, very phosphatic
280	290	Same as above, decrease limestone to 60%, increase clay to 40%	Same as above	Same as above	Same as above	Clay (90%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic; limestone (10%), light gray (N8), low porosity, well consolidated, fine grained
290	300	Same as above, increase limestone to 80%, decrease clay to 20%	Same as above, increase limestone to 90%, decrease clay to 10%	Same as above	Same as above	Same as above
300	310	Same as above	Clay (90%), yellowish gray (5Y 7/2), low porosity, high plasticity; micrite (10%), light gray, low porosity, well consolidated	Clay (90%), yellowish gray (5Y 7/2), low porosity, high plasticity; micrite (10%), light gray, low porosity, well consolidated	Same as above, decrease clay to 70%, add limestone (30%), light gray (N8), low porosity, well consolidated, fine grained	Same as above
310	320	Same as above, decrease limestone to 60%, increase clay to 40%	Same as above	Same as above	Same as above, increase clay to 90%, decrease limestone to 10%	Sandy limestone (80%), yellowish gray (5Y 8/1), poorly consolidated, moderate porosity, fine grained, phosphatic, shell molds; clay (20%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic
320	330	Clay (90%), yellowish gray (5Y 7/2), low porosity, high plasticity; micrite (10%), light gray, low porosity, well consolidated	Same as above	Clay, dusky yellow green (5GY 5/2), low porosity, moderate plasticity	Sandy limestone (80%), yellowish gray (5Y 8/1), poorly consolidated, moderate porosity, fine grained, phosphatic, shell molds; clay (20%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic	Same as above, decrease limestone to 70%, increase clay to 30%

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330	340	Clay, dark greenish clay (5G 4/1), low porosity, high plasticity	Clay, dark greenish clay (5G 4/1), low porosity, high plasticity	Clay (60%), light olive gray (5Y 6/1), low porosity, low plasticity, phosphatic; limestone (40%), yellowish gray, phosphatic, moderate porosity, poorly consolidated	Same as above	Same as above
340	350	Same as above	Same as above	Same as above	Clay (90%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic; limestone (10%), light gray (N8), low porosity, well consolidated, fine grained	Clay (90%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic; limestone (10%), light gray (N8), low porosity, well consolidated, fine grained
360	360	Clay, light olive gray (5Y 6/1), low porosity, low plasticity, phosphatic	Clay (80%), light olive gray (5Y 6/1), low porosity, low plasticity, phosphatic; limestone (20%), yellowish gray, phosphatic, moderate porosity, poorly consolidated	Same as above	Same as above	Same as above
360	370	Same as above	Same as above	Clay (70%), yellowish gray (5Y 8/1), low porosity, moderate plasticity; limestone (30%), yellowish gray, phosphatic, moderate porosity, poorly consolidated	Same as above, decrease clay to 50%, increase limestone to 50%	Same as above
370	380	Clay (70%), yellowish gray (5Y 8/1), low porosity, moderate plasticity; limestone (30%), yellowish gray, phosphatic, moderate porosity, poorly consolidated	Clay, pale olive (10Y 6/2), low porosity, moderate plasticity	Limestone (70%), yellowish gray, phosphatic, moderate porosity, poorly consolidated, clay (30%), yellowish gray (5Y 8/1), low porosity, moderate plasticity;	Same as above	Clay (70%), light olive gray (5Y 5/2), low porosity, low plasticity, limestone (20%), yellowish gray, phosphatic, moderate porosity, poorly consolidated, fine grained, phosphate (10%)

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380	390	Clay, pale olive (10Y 6/2), low porosity, moderate plasticity	Same as above	Same as above	Clay (70%), light olive gray (5Y 5/2), low porosity, low plasticity, limestone (20%), yellowish gray, phosphatic, moderate porosity, poorly consolidated, fine grained, phosphate (10%)	Clay (80%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic; limestone (20%), light gray (N8), low porosity, well consolidated, fine grained
390	400	Clay (70%), yellowish gray (5Y 8/1), low porosity, moderate plasticity; limestone (30%), yellowish gray, phosphatic, moderate porosity, poorly consolidated	Clay (70%), yellowish gray (5Y 8/1), low porosity, moderate plasticity; limestone (30%), yellowish gray, phosphatic, moderate porosity, poorly consolidated	Same as above	Same as above	Clay (90%), light olive gray (5Y 5/2), low porosity, moderate plasticity, limestone (10%), yellowish gray, phosphatic, moderate porosity, poorly consolidated, fine grained
400	410	Same as above	Same as above, increase clay to 80%, decrease limestone to 20%	Same as above	Same as above	Same as above, clay has low plasticity
410	420	Clay (90%), yellowish gray (5Y 8/1), low porosity, moderate plasticity; micrite (10%), light gray (N7), low porosity, poorly consolidated	Clay, yellowish gray (5Y 8/1), low porosity, moderate plasticity	Clay, yellowish gray (5Y 7/2), low porosity, moderate plasticity	Clay (90%), light olive gray (5Y 5/2), low porosity, moderate plasticity, limestone (10%), yellowish gray, phosphatic, moderate porosity, poorly consolidated, fine grained	Same as above
420	430	Same as above	Clay, yellowish gray (5Y 7/2), low porosity, moderate plasticity	Same as above	Clay (70%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic; limestone (70%), yellowish gray (5Y 8/1), poorly consolidated, moderate porosity, fine grained, phosphatic, shell molds	Clay (70%), yellowish gray (5Y 7/2), low porosity, low plasticity, phosphatic; limestone (70%), yellowish gray (5Y 8/1), poorly consolidated, moderate porosity, fine grained, phosphatic, shell molds

	3	4	5	6	7	
430	440	Same as above	Same as above	Same as above	Limestone, yellowish gray (5GY 8/1) to very light gray (N8), poorly consolidated, moderately consolidated, fine grained; shell molds	Same as above, increase limestone to 70%, decrease clay to 30%
440	450	Same as above	Same as above	Clay, dark greenish gray (5G 4/1), low porosity, high plasticity	Same as above	Same as above
450	460	Same as above	Same as above	Same as above	Same as above	Limestone, yellowish gray (5GY 8/1) to very light gray (N8), poorly consolidated, moderately consolidated, fine grained; shell molds
460	470	Same as above	Same as above	Same as above	Limestone, very light gray (N8) to white (N9), moderate porosity, well consolidated, fine grained, abundant shell molds	Same as above
470	480	Clay (60%), grayish olive (10Y 4/2), low porosity, moderate plasticity; limestone (40%), yellowish gray (5Y 7/2), fine grained, well consolidated, moderate porosity	Limestone (70%), yellowish gray (5Y 7/2), fine grained, well consolidated, moderate porosity; clay (30%), grayish olive (10Y 4/2), low porosity, moderate plasticity	Limestone (60%), yellowish gray (5Y 7/2), fine grained, well consolidated, moderate porosity; clay (40%), dark greenish gray (5G 4/1), low porosity, high plasticity	Same as above	Same as above
480	490	Limestone, yellowish gray (5Y 7/2), fine grained, moderately consolidated, moderate porosity	Same as above, decrease limestone to 60%, increase clay to 40%	Limestone, yellowish gray (5Y 7/2), fine grained, well consolidated, moderate porosity	Same as above	Limestone, very light gray (N8) to white (N9), moderate porosity, well consolidated, fine grained, abundant shell molds
490	500	Limestone, yellowish gray (5Y 7/2), fine grained, well consolidated, moderate porosity	Limestone, yellowish gray (5Y 7/2), fine grained, well consolidated, moderate porosity	Same as above	Same as above	Same as above

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500	510	Clay (60%), greenish gray (5GY 6/1), low porosity, moderate plasticity; limestone (40%), yellowish gray (5Y 7/2), well consolidated, moderate porosity, fine grained, abundant fossil molds	Clay (70%), greenish gray (5GY 6/1), low porosity, moderate plasticity; limestone (30%), yellowish gray (5Y 7/2), well consolidated, moderate porosity, fine grained, abundant fossil molds	Same as above	Same as above	Same as above
510	520	Limestone, yellowish gray (5Y 7/2), well consolidated, moderate porosity, fine grained, abundant fossil molds	Limestone, yellowish gray (5Y 7/2), well consolidated, moderate porosity, fine grained, abundant fossil molds	Same as above	Same as above	Same as above
520	530	Same as above	Same as above	Limestone, very light gray (N8) to white (N9), moderate porosity, well consolidated, fine grained, abundant shell molds	Same as above	Limestone, very pale orange (10YR 8/2), moderate porosity, moderately consolidated, fine grained
530	540	Limestone (80%), yellowish gray (5Y 8/1), poorly consolidated, moderate to high porosity, fine grained, sparry cement; limestone (20%), yellowish gray (5Y 8/1), well consolidated, micritic cement, moderate porosity, fine grained	Clay (80%), greenish gray (5GY 6/1), low porosity, moderate plasticity; limestone (20%), yellowish gray (5Y 7/2), well consolidated, moderate porosity, fine grained, abundant fossil molds	Same as above, moderately consolidated	Same as above	Same as above, abundant fossil molds
540	550	Limestone, yellowish gray (5Y 8/1), poorly consolidated, moderate to high porosity, fine grained	Limestone, yellowish gray (5Y 8/1), poorly consolidated, moderate to high porosity, fine grained	Same as above	Same as above	Same as above
550	560	Same as above	Same as above	Same as above, well consolidated	Same as above	Clay, light greenish gray (5G 8/1), low porosity, high plasticity

	3	4	5	6	7	
650	660	Same as above	Clay (80%), light greenish gray (5G 8/1), low porosity, low plasticity, phosphatic; limestone (20%), same as above	Same as above	Same as above, well consolidated, with fossil molds	Same as above
660	670	Same as above	Same as above, clay has low plasticity	Same as above	Same as above	Same as above
670	680	Clay (80%), light greenish gray (5G 8/1), low porosity, low plasticity, phosphatic; limestone (20%), same as above	Same as above, clay has medium plasticity	Same as above, moderately to well consolidated	Same as above	Same as above, with fossil molds
680	690	Same as above	Same as above, clay has high plasticity	Same as above, poorly consolidated	Same as above	Same as above
690	700	Clay (75%), light greenish gray (5G 8/1), low porosity, low plasticity, phosphatic; limestone (25%), very pale orange (10YR 8/2), high porosity, well consolidated, fine to medium grained	Limestone (80%), very pale orange (10YR 8/2), high porosity, poorly to moderately consolidated, fine to medium grained; clay (20%), greenish gray (5G 6/1), low porosity, high plasticity	Same as above	Same as above	Same as above
700	710	Limestone (90%), very pale orange (10YR 8/2), poorly to moderately consolidated, high porosity, fine to medium grained; clay (10%), greenish gray (5G 6/1), low porosity, high plasticity	Same as above	Same as above	Same as above	Same as above
710	720	Same as above, decrease limestone to 50%, increase clay to 50%	Limestone (80%), very pale orange (10YR 8/2), high porosity, poorly consolidated, medium grained; clay (20%), greenish gray (5G 6/1), low porosity, high plasticity	Same as above	Same as above	Same as above
720	730	Limestone, very pale orange (10YR 8/2), high porosity, poorly consolidated, medium grained	Sandstone, COLOR, very fine grained, low porosity, very well consolidated	Same as above, shell molds	Same as above	Same as above

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800	810	Limestone (90%), yellowish gray (5Y 8/1), fine grained, poorly consolidated, medium porosity; clay (10%), light greenish gray (5G 8/1), low porosity, low plasticity, phosphatic	Same as above	Limestone, pale yellowish brown (10YR 6/2), low porosity, very well consolidated, very fine grained		Same as above
810	820	Same as above, increase clay to 20%, decrease limestone to 80%	Same as above, decrease limestone to 80%, increase clay to 20%	Clay, yellowish gray (5Y 8/1), high plasticity, low porosity		
820	830	Limestone, pale yellowish brown (10YR 6/2), low porosity, very well consolidated, very fine grained	Same as above, decrease limestone to 50%, increase clay to 50%	Same as above		
830	840	Clay, yellowish gray (5Y 8/1), high plasticity, low porosity	Clay, yellowish gray (5Y 8/1), low porosity, low plasticity			
840	850	Same as above, decrease clay to 80%, add dolomite (20%), pale yellowish brown (10YR 6/2), low porosity, very well consolidated, very fine grained	Limestone, low porosity, well consolidated			
850	860	Same as above	White limestone (80%), medium porosity, poorly consolidated, yellowish gray clay (20%)			
860	870	Clay, olive gray (5Y 3/2), high plasticity, low porosity	Same as above, limestone (60%), clay (40%)			
870	880	Limestone (50%), yellowish gray (5Y 8/1), poorly consolidated, moderate porosity, fine grained; clay (25%), yellowish gray (5Y 8/1), high plasticity, low porosity; dolomite (25%), pale yellowish brown (10YR 6/2), low porosity, very well consolidated, very fine grained	Limestone (50%), yellowish gray (5Y 8/1), poorly consolidated, moderate porosity, fine grained; clay (50%), yellowish gray (5Y 8/1), high plasticity, low porosity;			
880	890	Limestone, white (N9), poorly consolidated, high porosity, fine grained	Same as above			
890	894	Same as above	Same as above			

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