

no corals

de County 531 T43 R23

**GEOLOGIST'S LOG
LM-3273**

*also called L-6432
make picks*

<u>Depth (feet)</u>	<u>Lithology</u>
0-3	Sand, very light gray to yellowish-brown (10YR 5/4), fine to very fine grained, unconsolidated.
3-5	Sandstone, pale yellowish-brown (10YR 6/2), sandy micrite, moderately hard, abundant shells.
5-7	Peat, brownish-black (5YR 2/1).
7-20	Sand and shell, fine to very fine grained quartz, unconsolidated.
20-30	Sand, very light gray, fine to very fine grained, loosely consolidated, clayey, fossiliferous.
30-50	Sandy clay, olive-gray (5Y 4/1), firm, silty to sandy, trace of shells.
50-85	Clay, olive-gray, firm, pure, terrigenous clay.
85-89	Sandy clay, medium gray, very fine grained, unconsolidated to loosely consolidated, with abundant shells and phosphate to pebble sized.
89-92	Sandy limestone, light olive-gray (5Y 5/2), micrite with very fine grained quartz sand, hard, friable, phosphatic, with minor moldic porosity.
92-99	Marl, medium light gray (N6), soft, silty, phosphatic and fossiliferous.
99-118	Sandy clay, medium dark gray (N4), soft, phosphate to pebble sized, minor shell fragments.
118-140	Silty clay, olive-gray (5Y 3/2), stiff, very abundant phosphate.
140-147	Sandstone, light olive-gray, fine to very fine grained quartz and phosphate, firm and friable, calcite cemented.

Continued:

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<u>Depth (feet)</u>	<u>Lithology</u>
147-160	Silty clay, olive-gray, firm abundant phosphate and trace of shells.
160-181	Marl, light gray (N7), soft, silty, phosphatic, with interbedded marly biomicrite.
181-192	Marl, light olive-gray (5Y 6/1), soft to firm, silty, fossiliferous and phosphatic.
192-214	Marl, yellowish-gray (5Y 8/1), soft, silty, abundant phosphate and common shells.
214-224	Marl, as above, with interbedded light olive-gray sandy limestone.
224-244	Limestone, light olive-gray micrite and biomicrite, sandy (quartz and phosphate), firm to hard, with moderate to good apparent porosity and interbedded marl, as above.
244-249	Clay, medium gray (N5), stiff, terrigenous clay with minor phosphate and shell fragments.
249-258	Clay, light olive-gray (5Y 5/2), soft to firm, fossiliferous, with abundant phosphate.
258-265	Marl, light gray, soft, with abundant phosphate and shell fragments.
265-275	Limestone, yellowish-gray (5Y 8/1), biomicrite, firm but friable, silty (quartz and phosphate), having good apparent porosity.
275-282	Clay, medium gray (N5), stiff, with minor phosphate.
282-290	Marl, light olive-gray, soft, phosphatic, with abundant shells and minor interbedded limestone.

Continued:

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Depth (feet)

Lithology

290-315	Limestone, yellowish-gray biomicrite, hard, phosphatic, with good apparent porosity and interbedded sandy, phosphatic micrite.
315-328	Marly limestone, yellowish-gray to light olive-gray micrite, firm, silty (quartz and phosphate), fossiliferous, with low to moderate porosity.
328-339	Marl, very light gray (N8), soft, silty, very fossiliferous, with interbedded marly limestone, as above.
339-355	Marl, light gray (N7) to light olive-gray (5Y 6/1), soft to firm, phosphatic and very fossiliferous.
355-370	Marl, as above, with interbedded silty, phosphatic micrite.
370-390	Marl, medium light gray (N6), firm, phosphatic, with abundant fossils and with minor interbedded biomicrite.
390-401	Clay, medium dark gray (N4), stiff, common shell fragments.
401-425	Clay, medium gray (N5), light olive-gray, soft, cohesive, phosphatic, with trace of shell fragments.
425-432	Clay, as above, with interbedded light yellowish-brown, stiff clay.
432-463	Clay, light olive-gray, soft, cohesive, phosphatic, with traces of medium dark gray, soft clay.
463-490	Marl, yellowish-gray to light olive-gray, soft, fossiliferous, with decreased phosphate.
490-505	Clay, dark gray, stiff, grading to a light olive-gray, soft clay with depth.

Continued:

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<u>Depth (feet)</u>	<u>Lithology</u>
505-510	Marl, medium light gray, soft, silty, with abundant phosphate to pebble sized and interbedded medium gray, fossiliferous clay.
510-519	Clay and marl, interbedded brownish-gray (5YR 4/1), soft clay and marl, as above, but with reduced phosphate grain size.
519-521	Clay, medium gray, firm, stiff, terrigenous.
521-526	Marl, medium light gray to very light gray, soft to firm, abundant phosphate, with interbedded medium gray, phosphatic clayey marl.
526-536	Clayey marl, greenish-gray (5GY 6/1) to medium gray, soft, with minor phosphate and interbedded light gray, silty marl.
536-541	Clay, olive-gray (5Y 4/1), stiff, pure terrigenous clay.
541-548	Clayey marl, light olive-gray, soft to firm, phosphatic.
548-561	Marl, very light gray to light olive-gray, soft, fossiliferous, with increased phosphate content.
561-565	Limestone, pinkish-gray (5YR 8/1), biomicrite, firm, slightly marly but with moderate to good apparent porosity.
565-575	Limestone, as above, with increased marl content and slight reduction in porosity.
575-583	Marl, very light gray, soft, with minor phosphate and interbedded marly limestone, as above.
583-590	Marl, very light to light gray, soft to stiff pure carbonate mud.
590-593	Marl, as above, but fossiliferous and with minor pinkish-gray, silty biomicrite.

WELL LM-3273

SERIES	FORMATION	SYMBOL	LITHOLOGY	AQUIFER	GAMMA RAY LOG
PLEISTOCENE	HARDY PER-ENTRATED		SAND SANDY	WATER	
			CLAYS AND MUDROCK PEAT	TRUSLE	
Pliocene	PEACE		CLAYS SLIME		
			CLAY AND	CONFINING	
100	RIVER		HAIR SAND-		
			STONE & SANDY LIMESTONES	BEDS	
300			LIMESTONES		
			AND MUD		
300			INTERBEDDED		
			MARLS AND CLAYS	HAWTHORN	
400	ARCADIA		MARLS AND CLAYS	CONFINING	
				BEDS	
500	HAWTHORN		LIMESTONES		
			LIGHT GRAY PHOSPHATIC	LOWER	
600			WITH		
			INTERBEDDED	HAWTHORN	
700			MARLS		
800	SULFANEE LIMESTONE		DOLOMITE	CONFINING ?	
			CALICHE LIMESTONE	SUBDANCE	
900	TOTAL DEPTH		800 FT.		

46 0702

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SCANNED

WELL LM-3273

SERIES	FORMATION	SYMBOL	LITHOLOGY	AQUIFER	GAMMA RAY LOG
Pleistocene	HAWTHORN	[Symbol]	SAND BANDS	WATER	
			CLAYS AND MUDS	TISSUE	
Pleistocene	PEACE	[Symbol]	CLAY'S		
			CLAY SAND	CONFINING	
100	RIVER	[Symbol]	MIDDLE SAND-		
			STONE & SANDY LIMESTONES	BEDS	
200	[Symbol]	[Symbol]	LIMESTONES		
			AND MUD		
300	[Symbol]	[Symbol]	INTERBEDDED		
			MARLS AND CLAYS	HAWTHORN	
400	[Symbol]	[Symbol]	INTERBEDDED		
			MARLS AND CLAYS	CONFINING BEDS	
500	ARCADIA	[Symbol]	MARLS AND CLAYS		
600	[Symbol]	[Symbol]	LIMESTONES		
			LIGHT GRAY PHOSPHATIC	LOWER	
700	[Symbol]	[Symbol]	WITH INTERBEDDED		
			MARLS	HAWTHORN	
800	[Symbol]	[Symbol]	DOLOMITE CALCAREOUS LIMESTONE	CONFINING & SURVANCE	
SURVANCE LIMESTONE					
TOTAL DEPTH 800 FT.					
900					

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