



Preliminary Stratigraphic Database for the Subsurface Tertiary and Uppermost Cretaceous Sediments of Dorchester County, South Carolina

Chapter C: Drill Hole Data Charts Used in the Preliminary Stratigraphic Database for Subsurface Sediments of Dorchester County, South Carolina

By G.S. Gohn, L.E. Edwards, L.M. Bybell, P.G. Chirico, R.A. Christopher, N.O. Frederiksen, D.C. Prowell, J.M. Self-Trail, and R.E. Weems

U.S Geological Survey Open-File Report 00-049-C

*Prepared in Cooperation with the
South Carolina Department of Natural Resources*

2000

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This report contains graphical stratigraphic logs and paleontologic data tables for six drill holes located in Dorchester County, South Carolina. The six holes and their numerical designations are:

USGS-Clubhouse Crossroads No. 1 (DOR-037)
Summerville water well (DOR-052)
USGS-Pregnall No. 1 (DOR-208)
USGS-St. George No. 1 (DOR-211)
USGS-Stallsville No. 1
USGS-Stallsville No. 2 .

The Clubhouse Crossroads and Pregnall drill holes are continuously cored stratigraphic test holes. The St. George and Stallsville No. 2 test holes were cored throughout half or more of their length. Only a short interval was cored at the base of Stallsville No. 1, and no cores were recovered from the Summerville well.

Two types of logs are presented for each of the six drill holes. The FIELD LOGS contain all of the available geophysical logs for each drill hole plus selected comments regarding drilling and sampling. The GEOSUMMARY LOGS contain a wide range of lithologic, biostratigraphic, and nomenclatural information for the stratigraphic section encountered in each drill hole.

In addition to the logs, tables of paleontologic information, including fossil occurrences, zones, and ages, are provided for most of the drill holes.

Additional technical and geologic information for these drill holes and related subjects is contained in Chapter B of this volume.

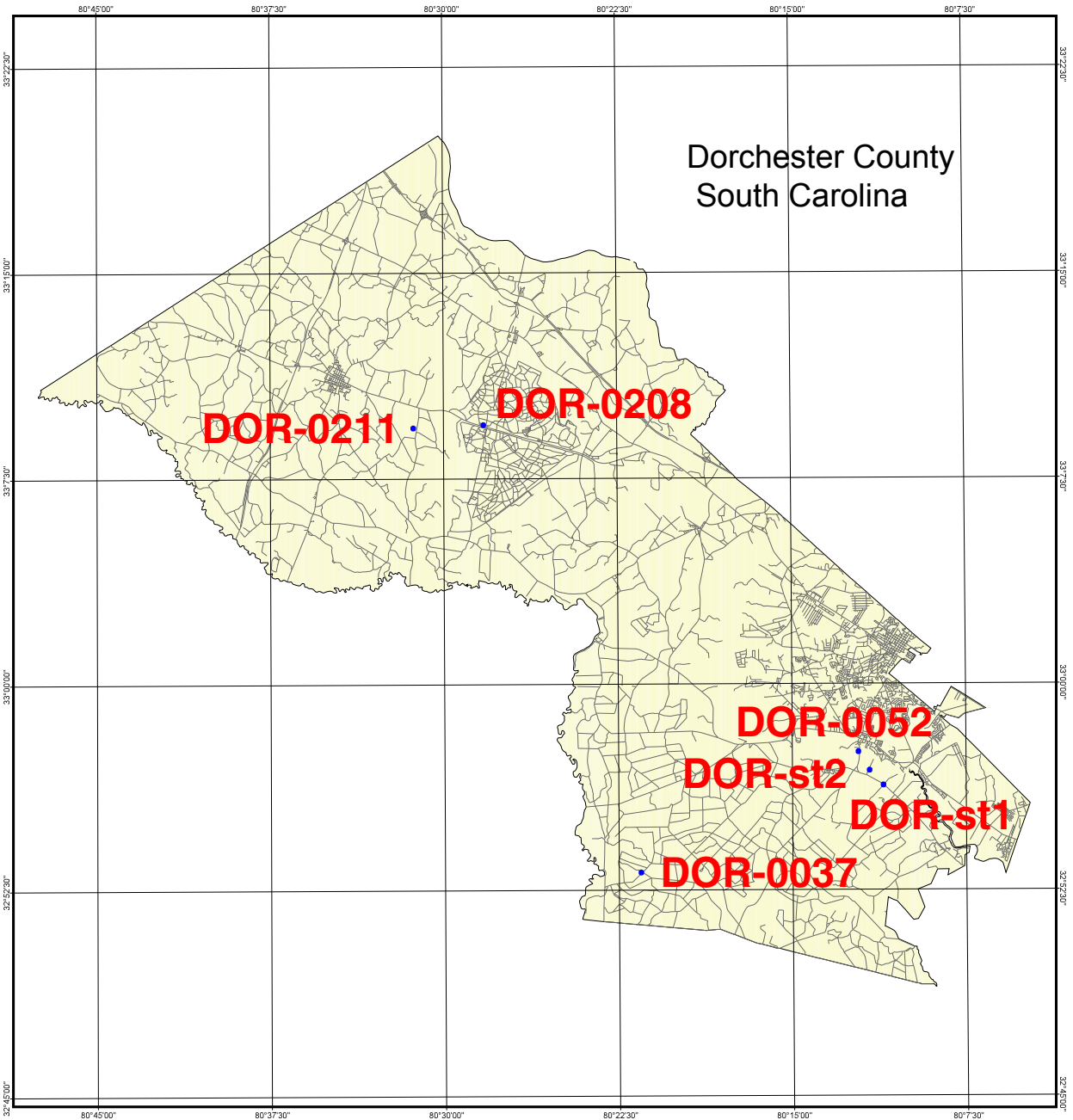
Ma	Period	Series/ subseries	European Stage	NN, NP, or CC Zone	Formations in Dorchester County	
	Quat.	Pleistocene	Calabrian	NN 19-21	Wando, Ten Mile Hill beds, Ladson, Penholoway, Waccamaw, Sunderland	
	Tertiary	Plio.	Gelasian	NN		
			Upper	Placenzian	NN 16-18	
			Lower	Zanclian	NN 12-15	Goose Creek Limestone unnamed unit
10		Miocene	Upper	Messinian	NN11	
				Tortonian	NN10	
					NN9	Rudd Branch beds
			Middle	Serravallian	NN7, 8 NN6	
				Langhian	NN5	
				Burdigalian	NN4	
20		Lower	Aquitanian	NN3 NN2	Marks Head Formation	
				NN1	Edisto Formation	
30		Oligocene	Upper	Chattian	NP25	Chandler Bridge Formation
					NP24	Ashley Formation
		Lower	Rupelian	NP23 22		
40		Eocene	Upper	Priabonian	NP21	Drayton limestone beds
					NP18	Parkers Ferry Formation
			Middle	Bartonian	NP17	Harleyville Formation
					NP16	Cross Member
				NP16	Moultrie Member	
				NP15		
Lower	Ypresian	13 14 11 12				
		NP10	Fishburne Formation			
60	Paleocene	Upper	Thanetian	NP9 NP8	Chicora	
				NP6		
		Selandian	NP5	Lower Bridge		
		Lower	Danian	NP4 NP3		
				NP2 NP1		
			Rhems Formation			
70	Upper	Cretaceous	Maastrichtian	CC 26 b a	Peedee Formation	
				CC 25 c b a		
			CC 24			
			Campanian (part)	CC 23 b a		
			CC 22	Donoho Creek Formation		

Time scale and correlations used in this report, based on Berggren and others (1995) and Shipboard Scientific Party (1998).

[Link to index map](#)

References Cited

- Berggren, W.A., Kent, D.V., Swisher, C.C., III, and Aubry, M.-P., 1995, A revised Cenozoic geochronology and chronostratigraphy, *in* Berggren, W.A., Kent, D.V., Aubry, M.-P., and Hardenbol, Jan, eds., Geochronology, time scales and global stratigraphic correlation: SEPM Special Publication No. 54, p. 129-212.
- Habib, Daniel, and Miller, J.A., 1989, Dinoflagellate species and organic facies evidence of marine transgression and regression in the Atlantic Coastal Plain: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 74, p. 23-47.
- Martini, Erlend, 1971, Standard Tertiary and Quaternary calcareous nannoplankton zonation: Planktonic Conference, 2d, Rome 1969, Proceedings, p. 739-785.
- Perch-Nielsen, Katharina, 1985, Mesozoic calcareous nannofossils, *in* Bolli, H.M., Saunders, J.B., and Perch-Nielsen, Katharina, eds., Plankton Stratigraphy: Cambridge, Cambridge University Press, p. 329-426.
- Shipboard Scientific Party, 1998, Explanatory notes, *in* Norris, R.D., Kroon, R.D., Klaus, A., and others: Proceedings of the Ocean Drilling Program, Part A: Initial Reports, 171B, p. 11-44.



- Corehole location
- ∩ Road
- County boundary

Links to additional data

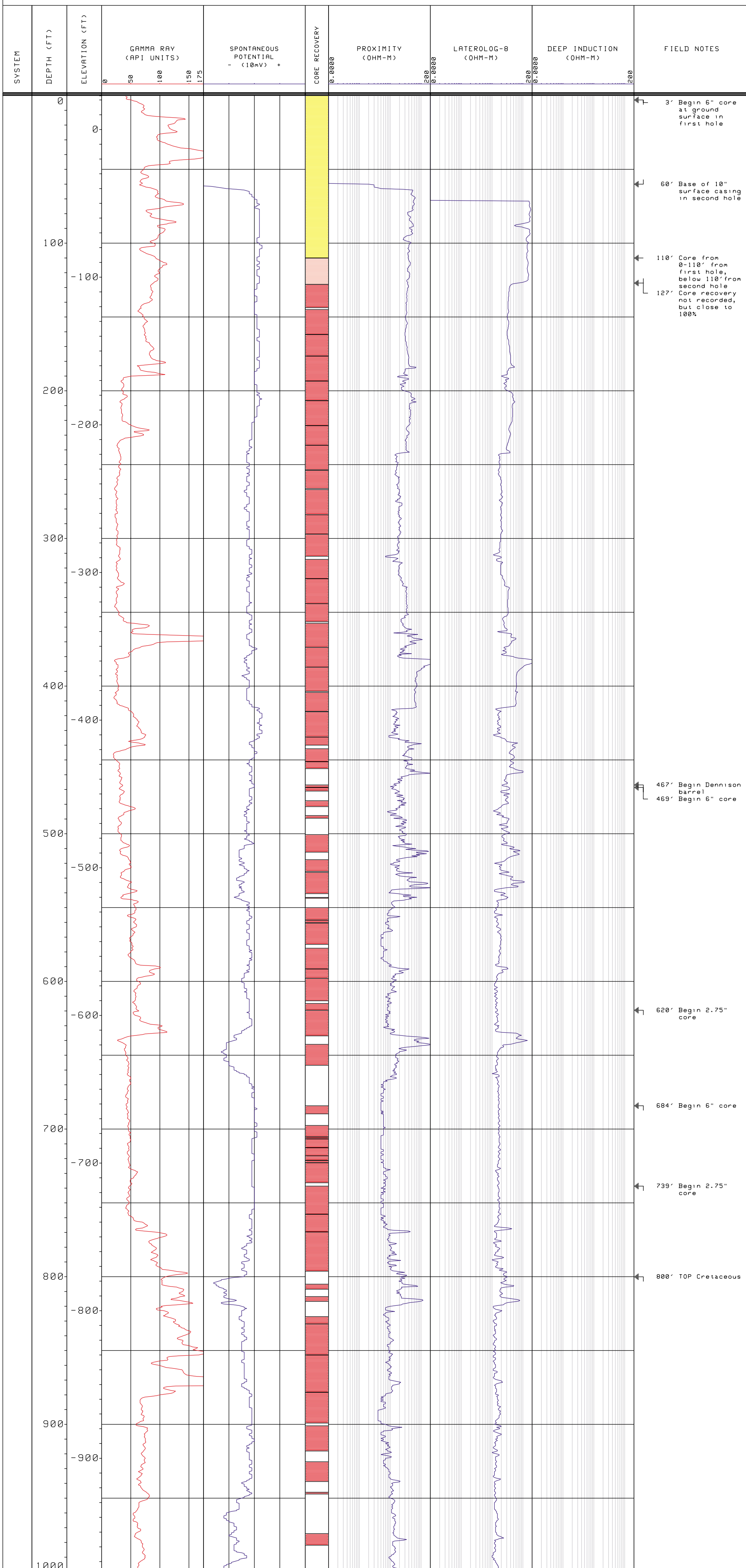
- [USGS-Clubhouse Crossroads No.1 \(DOR-037\) field log, geosummary log, Cretaceous nannofossils, Tertiary nannofossils, dinoflagellates, pollen](#)
- [Summerville water well \(DOR-052\), field log, geosummary log](#)
- [USGS-Pregnall No. 1 \(DOR-208\) field log, geosummary log, nannofossils, dinoflagellates, pollen](#)
- [USGS-St. George No. 1 \(DOR-211\) field log, geosummary log, Cretaceous nannofossils, Tertiary nannofossils](#)
- [USGS-Stallsville No. 1 \(DOR-st1\) field log, geosummary log](#)
- [USGS-Stallsville No. 2 \(DOR-st2\) field log, geosummary log, nannofossils](#)

[Link to correlation chart](#)



DOR-037 FIELD LOG

Well Name : USGS - Clubhouse Crossroads No. 1
County : Dorchester
State : South Carolina
Total Depth (ft) : 2599
Completion Date : 1975

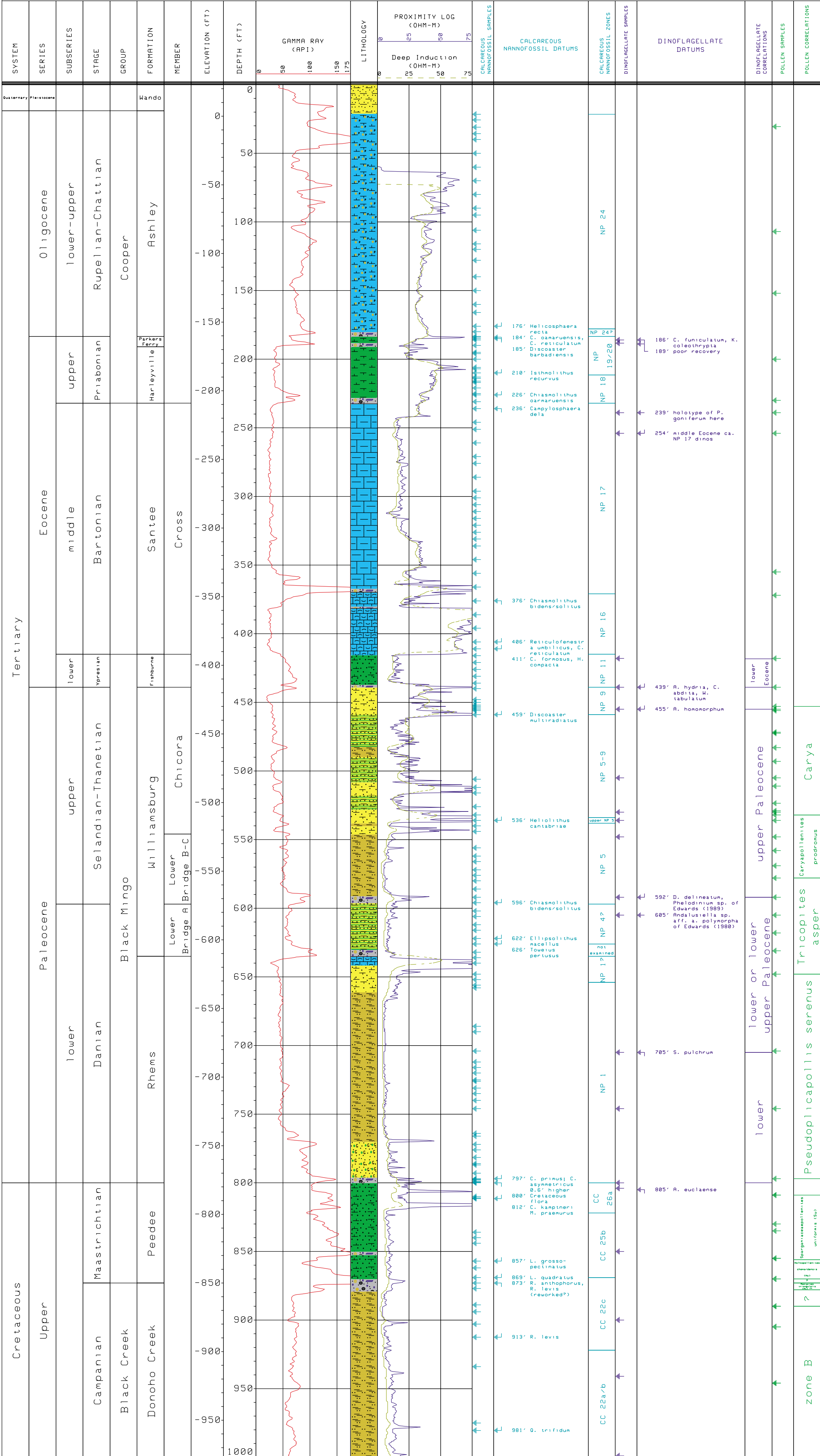


Prepared in Cooperation with the SC Dept. of Natural Resources

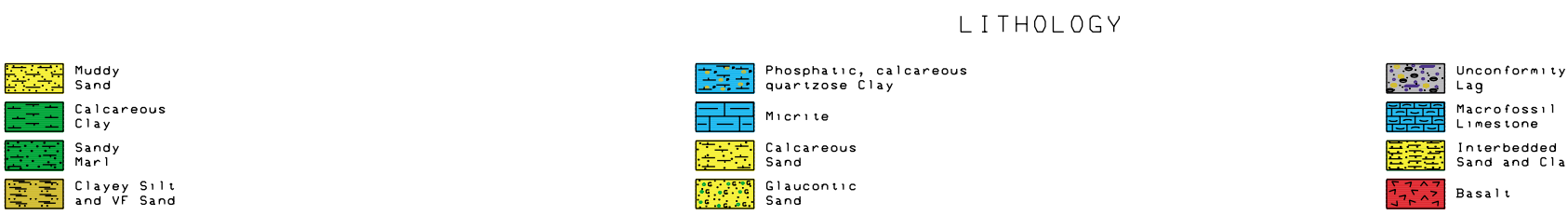


DOR-037 GEOSUMMARY LOG

Well Name :USGS - Clubhouse Crossroads No. 1
County :Dorchester
State :South Carolina
Total Depth (ft) :2599
Completion Date :1975



Prepared in Cooperation with the SC Dept. of Natural Resources



Clubhouse Crossroads Core (DOR-37) --Dinocysts and Acritarchs

Series		Paleocene						Eoc.				
Subseries	Lower	Upper						Lower				
Formation	Rhems	Williamsburg						Fish-				
Member		A	B-C	Chicora				burne				
Taxa	Depth (feet)*	DC-19 (741 ft)	DC-18 (700 ft)	DC-16 (600 ft)	R 4209 H (587 ft)	DC-15 (543 ft)	DC-14 (531 ft)	DC-13 (525 ft)	DC-12 (500 ft)	DC-11 (450 ft)	DC-10 (434 ft)	R1133 D (413-31)
<i>Achomosphaera alcicornu</i>		X	.	.	.	.
<i>Amphorosphaeridium ? multispinosum</i>		.	.	.	X	.	.	.	.	.	X	.
<i>Andalusiella</i> sp. aff. <i>A. polymorpha</i> of Edwards (1980)		.	.	X	.	.	.	.	.	.	.	.
? <i>Andalusiella rhombohedra</i> of Edwards and others (1984)		.	X	.	X	X	X	.	.	.	.	.
<i>Apectodinium homomorphum</i>		X	.	.
<i>Ascostomocystis hydria</i>		X	.
<i>Cordosphaeridium</i> spp.		.	.	.	X	.	.	.	.	.	.	.
<i>Cordosphaeridium fibrospinosum</i>		X	.
<i>Cordosphaeridium gracile</i>		X	.	.
<i>Cordosphaeridium inodes</i>		X	.
<i>Cribooperidinium giuseppeii</i>		X	.
<i>Damassadinium californicum</i>		.	.	.	X	.	.	?	X	.	.	.
<i>Deflandrea delineata</i>		.	.	.	X	X	X	.	X	X	.	.
<i>Eocladopyxis peniculata</i>		?	.
<i>Exochosphaeridium</i> sp.		X	.	X	.	.	.	.	.	.	.	.
<i>Fibrocysta lappacea</i>		X	.
<i>Operculodinium centrocarpum</i>		.	.	.	X	.	.	.	.	.	.	.
<i>Palaeocystodinium golzowense</i>		.	.	.	X	X	.	.	.	.	.	.
<i>Palaeocystodinium</i> sp. (fat)		X	X	.	.	.	.	.	.	.	.	.
<i>Palaeoperidinium pyrophorum</i>		.	.	.	X	.	.	.	.	.	.	.
<i>Phelodinium magnificum</i>		.	X	.	.	.	.	.	.	.	.	.
<i>Phelodinium</i> sp.		X	.	.	.	.	.	.	.	.	.	.
<i>Phelodinium</i> sp. of Edwards (1989)		.	.	.	X	.	.	.	X	.	.	.
<i>Senegalinium ? dilwynense</i>		X	.
<i>Spinidinium</i> spp.		X	X	.	.	X	.	X	.	.	.	.
<i>Spinidinium pulchrum</i>		X	X	.	.	.	.	.	.	.	.	.
<i>Spiniferites</i> sp.		.	X	.	X	.	.	.	.	.	X	X
<i>Turbiosphaera</i> sp. aff. <i>T. magnifica</i> of Edwards (1989)		X	.	.	.
<i>Wilsonidium tabulatum</i>		X	X
miscellaneous areoligeracean forms		.	.	.	X	.	.	.	.	.	.	.
small peridiniacean forms		X	X	X	X	.	.	.	X	.	X	.

A=Lower Bridge A; B-C=Lower Bridge B-C; X=present; .=not present; ?=questionable

*Depths recorded at the time of sampling. To convert to log depths, add 5 ft.

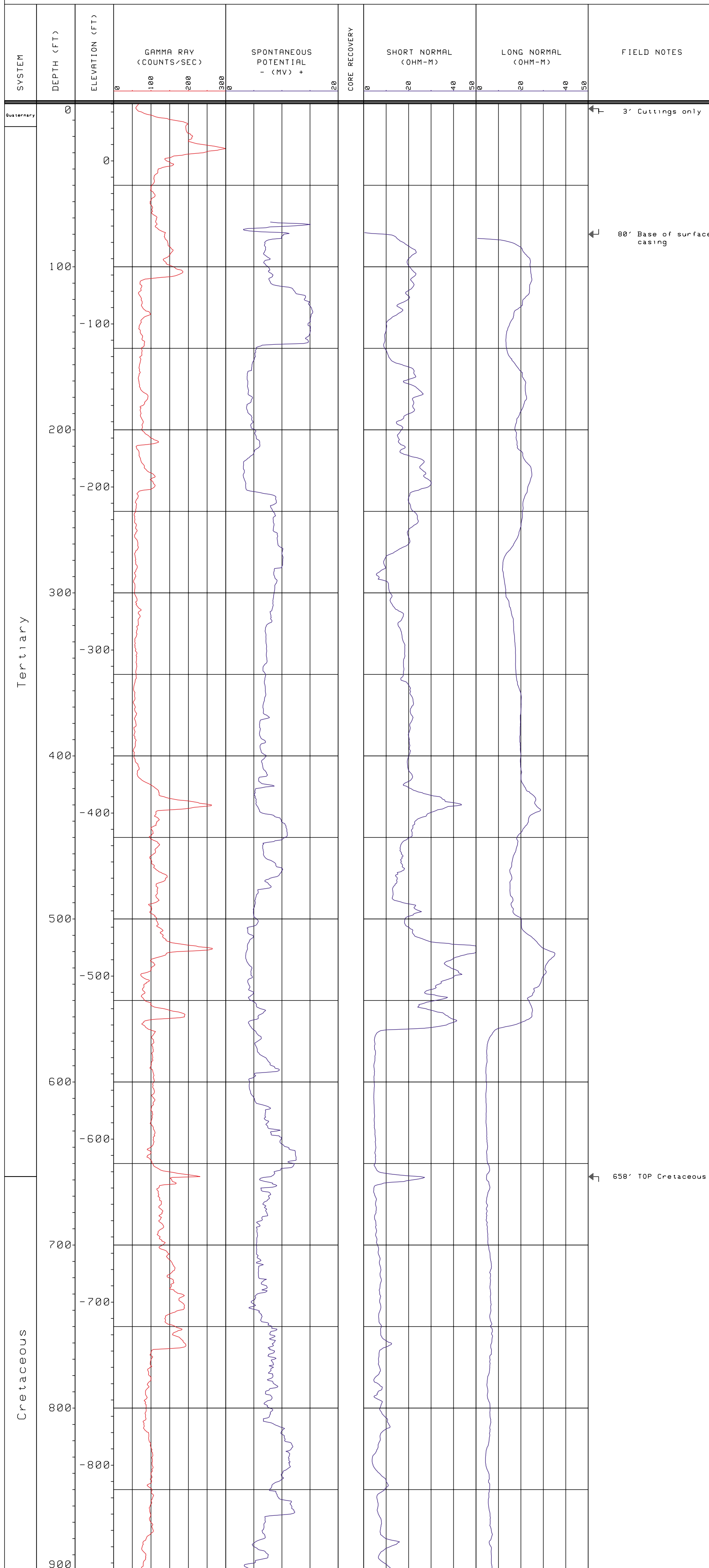
Clubhouse Crossroads Core (DOR-37) --Dinocysts and Acritarchs

[Return to index map](#)



DOR-052 FIELD LOG

Well Name :Summerville Water Treatment Plant
County :Dorchester
State :South Carolina
Total Depth (ft) :2000
Completion Date :1978

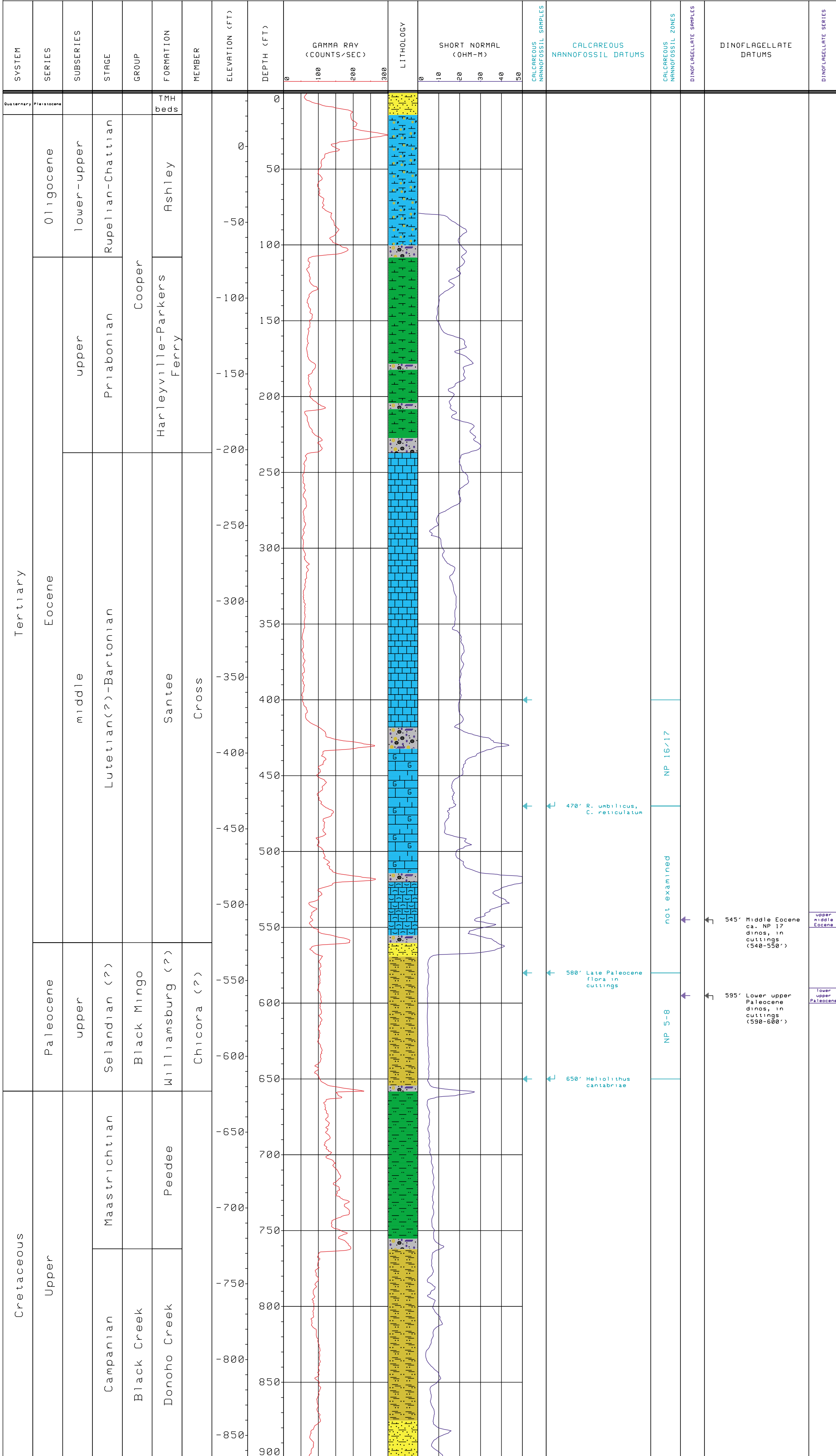


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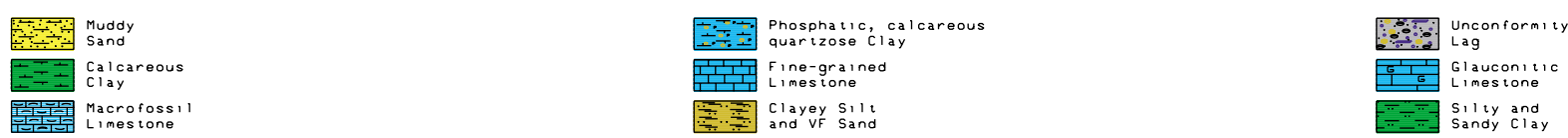
DOR-052 GEOSUMMARY LOG

Well Name : Summerville Water Treatment Plant
 County : Dorchester
 State : South Carolina
 Total Depth (ft) : 2000
 Completion Date : 1978



Prepared in Cooperation with the SC Dept. of Natural Resources

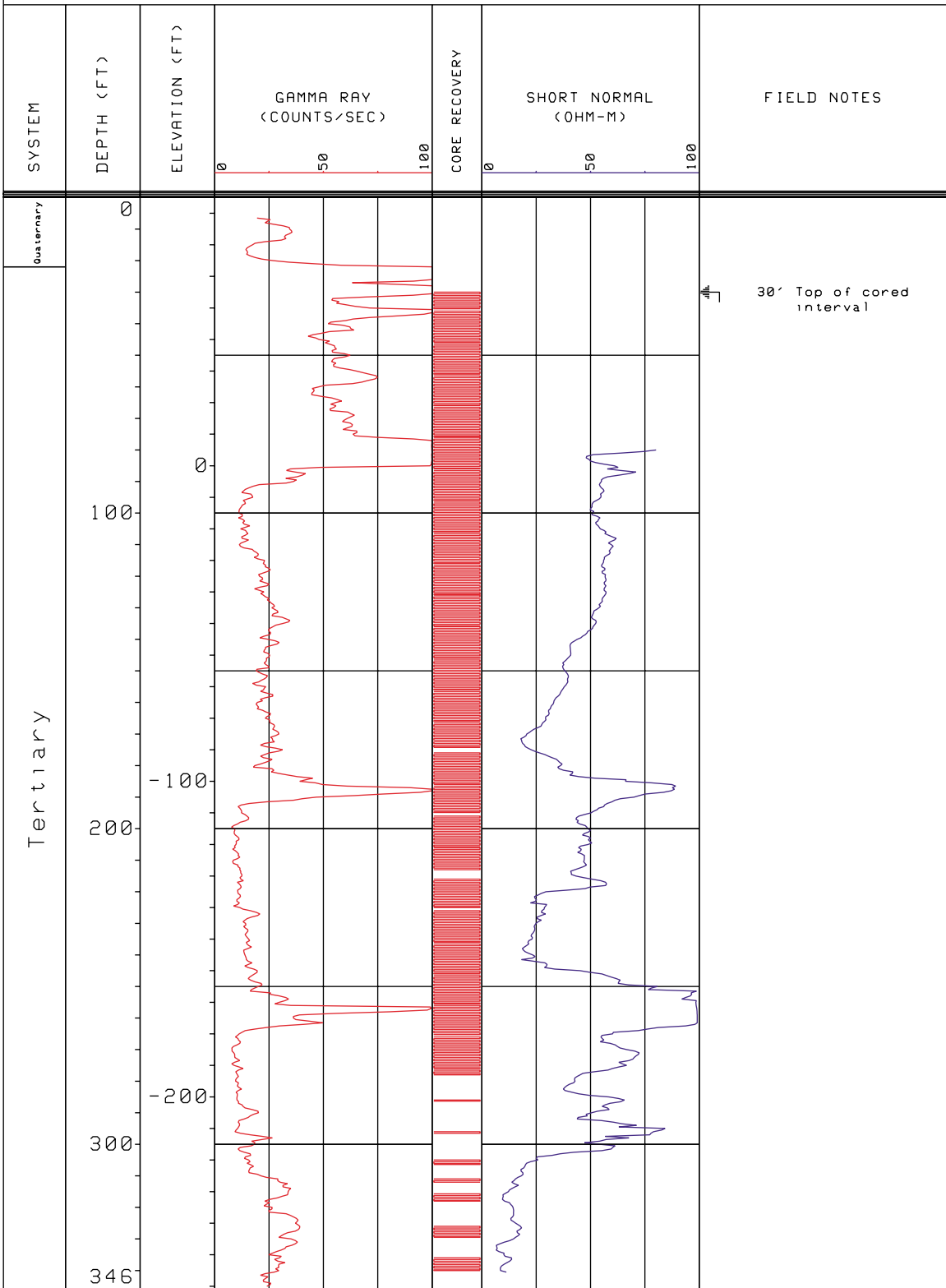
LITHOLOGY





DOR-208 FIELD LOG

Well Name :USGS - Pregnall No. 1
 County :Dorchester
 State :South Carolina
 Total Depth (ft) :346
 Completion Date :1982

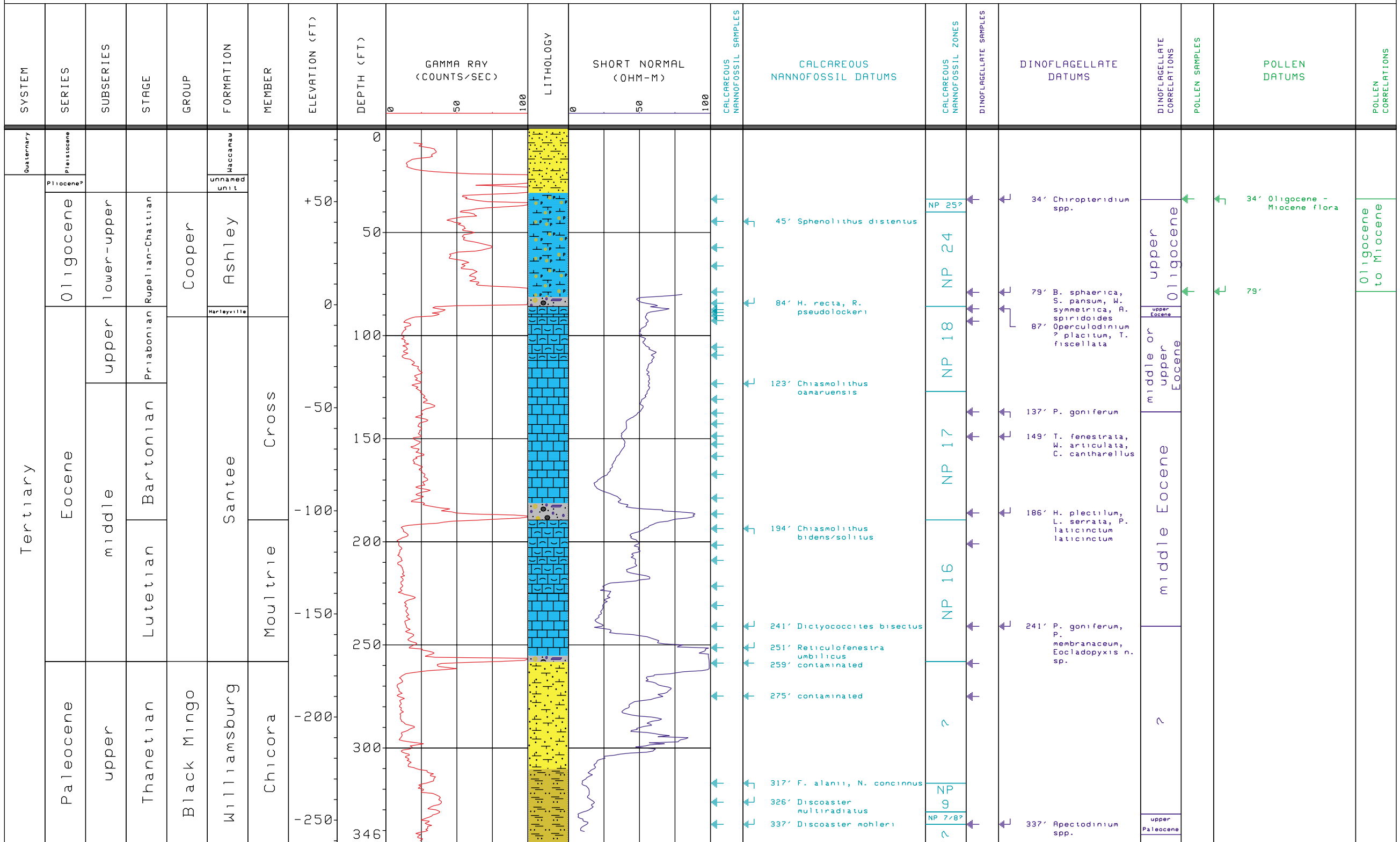


Prepared in Cooperation with the SC Dept. of Natural Resources



DOR-208 GEOSUMMARY LOG

Well Name :USGS - Pregnall No. 1
 County :Dorchester
 State :South Carolina
 Total Depth (ft) :346
 Completion Date :1982



Prepared in Cooperation with the SC Dept. of Natural Resources

LITHOLOGY

Muddy Sand
 Macrofossil Limestone
 Clayey Silt and VF Sand

Phosphatic, calcareous quartzose Clay
 Fine-grained Limestone

Unconformity Lag
 Calcareous Sand

Pregnall Core (DOR-208) -- Dinocysts and Acritarchs

Taxa	Depth (feet)	Paleocene			Eocene					Oligocene		
		Subseries			Middle					Upper	Upper	
		Formation			Santee					H	Ashley	
		Member	Chicora	Moultrie	Cross							
	#	#	#	#	#	#	#	#	93	87	79	34
<i>Achilleodinium biformoides</i>		.	.	.	X	X	.	.	X	.	.	.
<i>Adnatosphaeridium williamsii</i>		X	.	.	.	.	.	.	X	X	.	.
<i>Adnatosphaeridium</i> sp.		.	.	.	.	.	.	.	X	X	.	.
<i>Amphorosphaeridium ? multispinosum</i>		.	.	X	.	.	.	.	.	.	.	.
<i>Apectodinium homomorphum</i>		X	.	.	.	.	.	.	.	.	.	.
<i>Apectodinium quinquelatum</i>		X	.	.	.	.	.	.	.	.	.	.
<i>Apteodinium australiense</i>		.	c	.	.	.	.	.	.	.	.	X
<i>Apteodinium spiridoideis</i>		.	.	.	.	.	.	.	.	.	X	.
<i>Areoligera-Glaphyrocysta</i> complex		.	.	.	.	X	X	X	.	.	.	.
<i>Areosphaeridium diktyoplokum</i>		.	.	.	.	X	.	.	.	.	.	.
<i>Batiacasphaera hirsuta</i>		.	.	.	.	.	.	.	.	.	X	.
<i>Batiacasphaera sphaerica</i>		.	c	.	.	.	.	.	.	.	X	X
<i>Carpatella cornuta</i>		.	.	rw	.	.	.	.	.	.	.	.
<i>Charlesdowniea coleothrypta</i>		.	.	X	.	X	X	X	.	X	.	.
<i>Charlesdowniea stellata</i>		.	.	.	.	.	.	.	.	X	.	.
<i>Chiropteridium lobospinosum</i>		.	c	.	.	.	.	.	.	.	.	X
<i>Chiropteridium</i> spp.		.	.	.	.	.	.	.	.	.	.	X
<i>Cordosphaeridium cantharellus</i>		.	.	.	.	X	X	X	.	.	.	.
<i>Cordosphaeridium gracile</i>		X	.	.	.	X	X	X	.	.	.	.
<i>Cordosphaeridium minimum</i>		.	.	.	.	.	X	.	.	.	.	.
<i>Corrudinium incompositum</i>		.	.	.	.	.	X	.	.	X	.	.
<i>Cribroperidinium giuseppei</i>		.	.	X	.	X	X	.	.	.	.	.
<i>Cyclopsiella ? chateaneufii</i>		.	.	.	.	.	.	.	.	.	X	.
<i>Cyclopsiella vieta</i>		.	.	X	.	X	X	X	X	X	X	.
<i>Dapsilidinium pseudocolligerum</i>		.	.	.	.	X	.	.	X	.	X	X
<i>Deflandrea heterophlycta</i>		.	.	.	.	.	cf	X	.	X	.	.
<i>Deflandrea phosphoritica</i>		.	.	.	.	X	.	.	X	.	X	.
<i>Dinopterygium cladoides</i> sensu Morgenroth (1966)		.	c	X	.	X	X	X	.	X	X	.
<i>Diphyes colligerum</i>		X	.	X	.	.	.	X	.	.	.	.
<i>Distatodinium ellipticum</i>		.	.	.	.	X	.	X	.	.	.	.
<i>Distatodinium paradoxum</i>		.	.	.	.	.	.	.	.	.	.	X
<i>Enneadocysta arcuata</i>		.	.	X	.	X	X	.	.	.	.	.
<i>Eocladopyxis</i> n. sp.		.	.	X	.	.	.	.	.	.	rw	?
<i>Eocladopyxis peniculata</i>		X	X	.	.	.	.	X	.	.	.	.
<i>Glaphyrocysta intricata</i>		.	.	X	.	.	.	.	.	.	.	.
<i>Heteraulacacysta porosa</i>		.	.	.	.	.	.	X	.	.	.	.
<i>Heteraulacacysta ? leptalea</i>		.	.	.	.	.	.	X	.	.	.	.
<i>Heteraulacacysta</i> spp.		?	.	.	.	X	.	.	.	.	.	.
<i>Histiocysta</i> sp. of Stover and Hardenbol (1993)		.	.	X	.	.	.	X	.	.	.	.
<i>Homotryblium plectilum</i>		.	c	.	.	X	.	.	.	X	X	X
<i>Hystrichokolpoma cinctum</i>		.	.	.	.	.	.	X	.	.	.	.
<i>Hystrichokolpoma rigaudiae</i>		.	c	.	X	.	X	X	X	X	.	X
<i>Hystrichokolpoma unispinum</i>		X	.	.	.	.	.	.	.	.	.	.
<i>Hystrichosphaeropsis</i> sp.		.	.	.	.	.	.	X	.	.	.	.
<i>Hystrichostrogylon coninckii</i> ?		.	.	.	.	.	.	X	?	.	.	.
<i>Hystrichostrogylon membraniphorum</i>		.	.	?	.	.	.	.	.	.	.	.
<i>Impagidinium</i> sp.		.	.	.	.	X	.	.	.	.	.	.
<i>Kallosphaeridium brevisbarbatum</i>		X	.	.	.	.	.	.	.	.	.	.
<i>Lejeunecysta</i> sp.		.	c	.	.	.	.	X	.	.	.	X
<i>Lentinia serrata</i>		.	.	.	.	X	X	X	X	.	X	.
<i>Lingulodinium machaerophorum</i>		.	c	.	X	.	X	X	X	X	X	X
<i>Melitasphaeridium pseudorecurvatum</i>		.	.	X	.	.	.	.	.	.	.	.
<i>Membranophoridium aspinatum</i>		.	.	.	.	.	.	.	.	.	X	.
<i>Membranosphaera maastrichta</i>		X	.	.	.	.	.	.	.	.	.	.
<i>Milliudodinium</i> sp. I of Edwards (1984)		.	.	.	.	X	.	X	.	.	.	.
<i>Nematosphaeropsis</i> ? sp.		.	.	.	.	.	.	X	.	.	.	.
<i>Operculodinium centrocarpum</i> sensu amplo		X	c	.	.	X	X	X	X	.	X	X
<i>Operculodinium ? placitum</i>		.	.	.	.	.	.	X	.	.	.	.
<i>Palaeocystodinium golzowense</i>		.	.	.	.	X	X	X	.	.	X	.
<i>Pentadinium goniferum</i>		.	.	X	.	X	X	X	.	.	.	.
<i>Pentadinium laticinctum</i> subsp. <i>laticinctum</i>		.	.	.	.	X	X	X	X	X	.	.
<i>Pentadinium laticinctum</i> (grano-vermiculate forms)		.	c	.	.	.	.	.	X	X	X	X
<i>Pentadinium membranaceum</i>		.	.	X	.	X	.	.	.	.	.	.
<i>Phthanoperidinium comatum</i>		.	.	.	.	X	X	X	X	.	.	.
<i>Phthanoperidinium stockmansii</i>		.	.	.	.	.	.	X	.	X	.	.
<i>Phthanoperidinium</i> sp.		.	.	X	.	.	.	.	.	.	.	.
<i>Polysphaeridium zoharyi</i>		X	.	.	.	.	.	.	.	.	.	X
<i>Samlandia chlamydophora</i> sensu stricto		.	.	.	.	.	.	.	.	X	.	.
<i>Samlandia chlamydophora</i> of Stover and Hardenbol (1993)		.	.	.	.	X	X	.	X	X	.	.
<i>Samlandia</i> sp.		.	.	.	.	.	.	X	.	.	.	X
<i>Saturnodinium pansum</i>		.	.	.	.	.	.	.	.	.	X	X
<i>Senegalium ? dilwynense</i>		X	.	.	.	.	.	.	.	.	.	.
<i>Spiniferites pseudofurcatus</i>		.	.	X	.	X	.	.	.	.	.	X
<i>Spiniferites</i> spp.		X	?	.	X	.	X	X	X	X	X	X
<i>Systematophora placacantha</i>		.	X	.	X	.	X	X	X	X	X	.
<i>Tectatodinium pellitum</i>		.	.	X	.	X	X	X	X	X	X	.
<i>Thalassiphora fenestrata</i>		.	.	.	.	.	X	X	X	.	.	.
<i>Thalassiphora pelagica</i>		.	X	.	X	.	.	.	.	.	.	.
<i>Trigonopyxidia fiscellata</i>		.	.	.	.	.	.	.	.	X	.	.
<i>Turbiosphaera</i> sp. aff. <i>T. magnifica</i> of Edwards (1989)		X	.	.	.	.	.	.	.	.	.	.
<i>Wetzeliella articulata</i> sensu amplo		.	c	.	.	.	X	X	X	.	.	.
<i>Wetzeliella simplex</i>		.	.	.	.	X	.	.	.	.	.	.
<i>Wetzeliella symmetrica</i>		.	.	.	.	.	.	.	.	.	X	X
	Depth (feet)	#	#	#	#	#	#	#	93	87	79	34
	Member	Chicora			Moultrie	Cross						
	Formation	Williamsburg			Santee					H	Ashley	
	Subseries	Upper			Middle					Upper	Upper	
	Series	Paleocene			Eocene					Oligocene		

H= Harleyville Formation; X=present; .=not present; rw=reworked; c=contaminated; ?=questionable, cf=compares with.

Pregnall Core (DOR-208) -- Dinocysts and Acritarchs

[Return to index map](#)

Pregnall Core (DOR-208) -- Sporomorphs

Series	Oligocene	
Subseries	Upper Oligocene	
Formation	Ashley	
Depth (feet)	78.4-78.8	33.6-33.8
<i>Betula</i> (birch)	.	X
<i>Carya</i> (hickory)	X	X
Eleagnaceae (silverberry)	X	X
<i>Liquidambar</i> (sweet-gum)	X	.
<i>Momipites spackmanianus</i> group	X	X
<i>Pinus</i> (pine) <i>haploxylon</i> type	X	X
<i>Quercus</i> (oak)	X	X
<i>Tetralporopollenites megadolium</i>	.	X
<i>Tilia</i> (basswood)	X	.
<i>Ulmus</i> (elm)	X	X
Several species of fern spores	X	X

X=present; .=not present

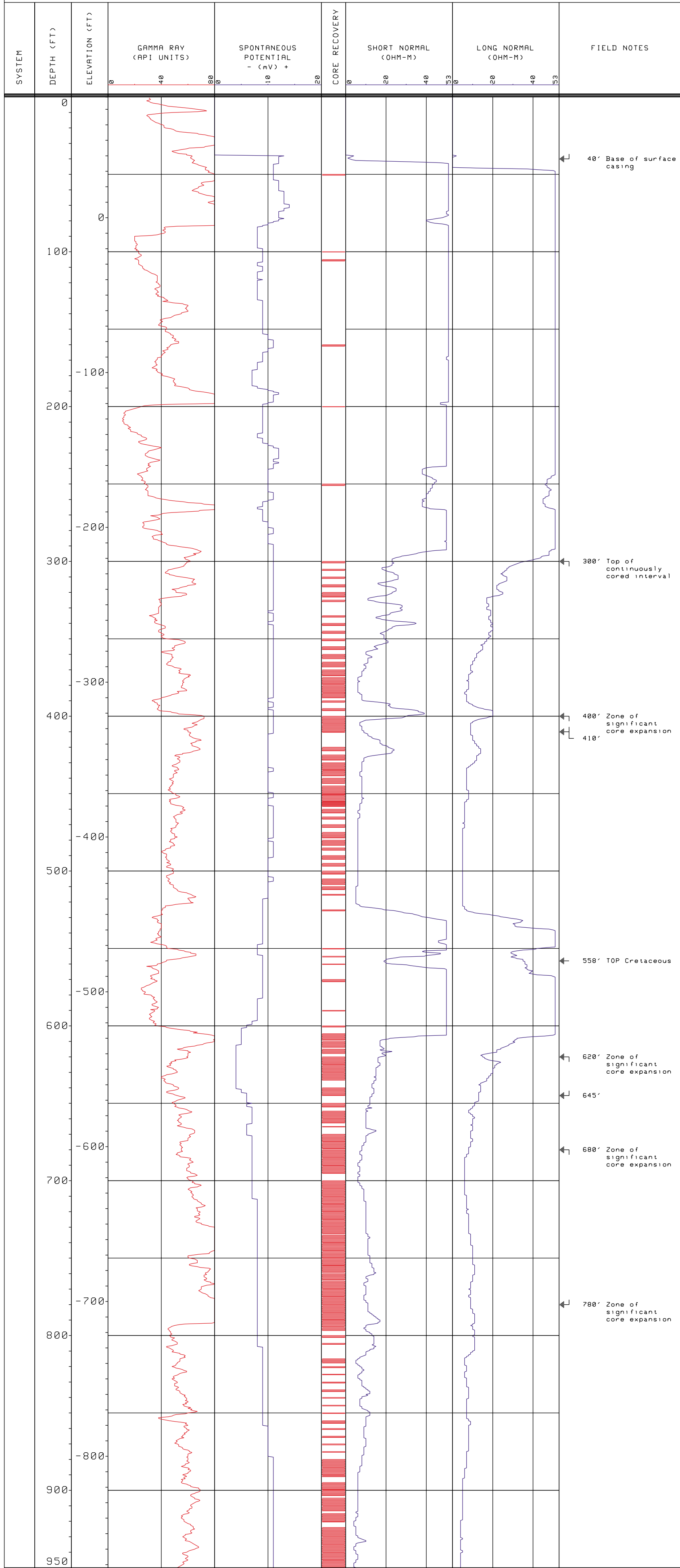
Pregnall Core (DOR-208) -- Sporomorphs

[Return to index map](#)



DOR-211 FIELD LOG

Well Name :USGS - St. George No. 1
County :Dorchester
State :South Carolina
Total Depth (ft) :2067
Completion Date :1982

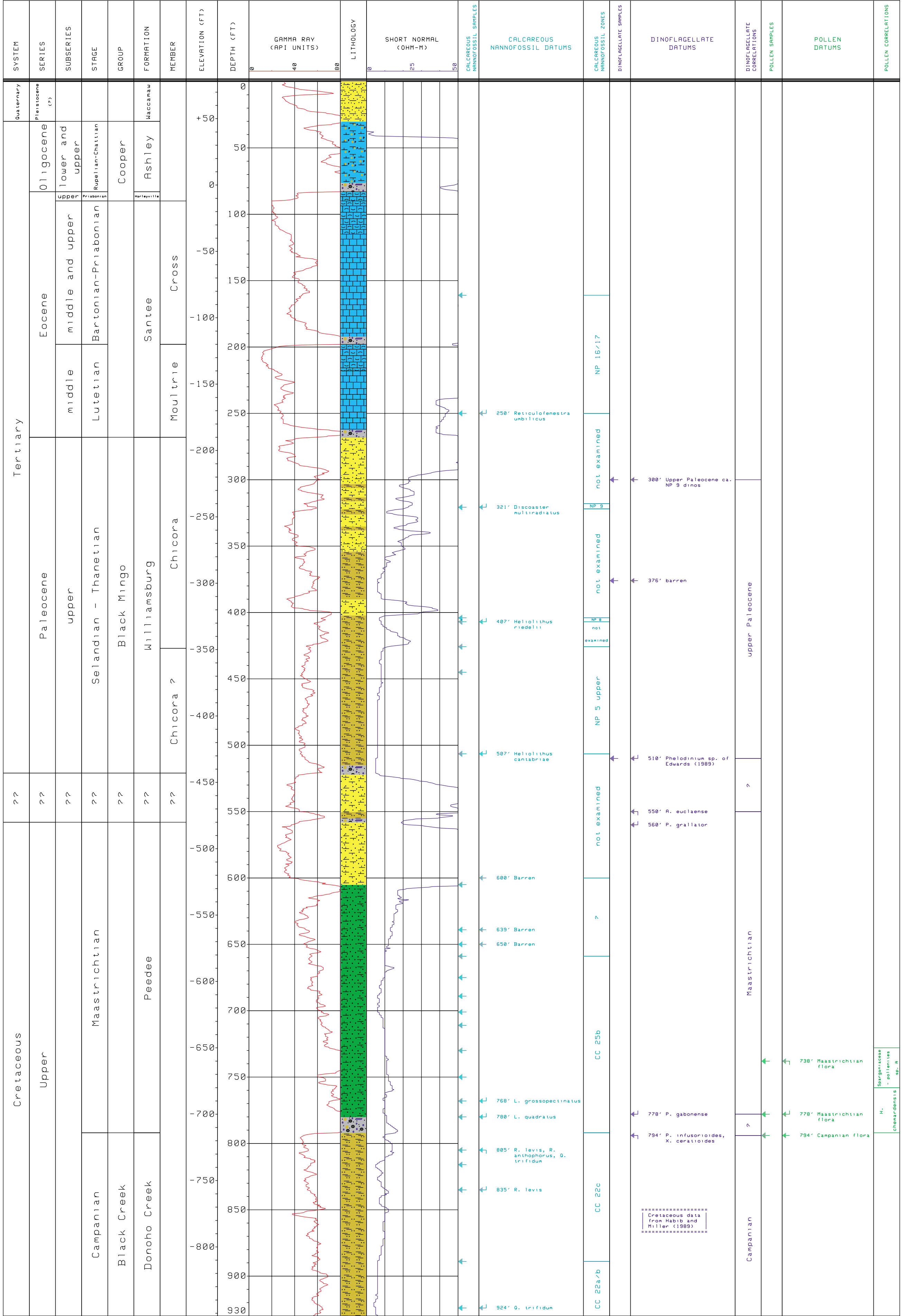


Prepared in Cooperation with the SC Dept. of Natural Resources



DOR-211 GEOSUMMARY LOG

Well Name : USGS - St. George No. 1
 County : Dorchester
 State : South Carolina
 Total Depth (ft) : 2067
 Completion Date : 1982



Prepared in Cooperation with the SC Dept. of Natural Resources

LITHOLOGY



St. George core (DOR-211) -- Tertiary Calcareous Nannofossils

Series	Paleocene						Eocene	
Subseries	Upper						Middle	
Formation	Williamsburg						Santee	
Member	Chicora?		Chicora			M.	C.	
Calcareous Nannofossil Zone (Martini, 1971)	NP 5 upper	NP 5 upper	NP 5 upper	NP 8	NP 8	NP 9	NP 16/17	NP 16/17
axa	506.5	445	425.8	407	404	320.7	250	161
<i>Braarudosphaera bigelowii</i>	X	.	.	.	.	.	.	X
<i>Cepekiella lumina</i>	.	.	.	.	.	.	.	X
<i>Chiasmolithus bidens/solitus</i>	.	.	X	X	X	X	.	.
<i>Chiasmolithus titus</i>	.	.	.	.	.	.	X	.
<i>Coccolithus cribellum</i>	X	X	.	.	.	.	.	.
<i>Coccolithus eopelagicus</i>	.	.	.	.	.	.	X	X
<i>Coccolithus pelagicus</i>	.	X	X	X	X	X	X	X
<i>Coronocyclus nitescens</i>	.	.	.	.	.	.	?	.
<i>Cribricentrum reticulatum</i>	.	.	c	.	.	.	.	X
<i>Crucioplacolithus asymmetricus</i>	X	.	.	.	.	.	.	.
<i>Crucioplacolithus tenuis</i>	X	.	X	.	X	.	.	.
<i>Crucioplacolithus spp.</i>	.	X	X	.	.	X	.	.
<i>Cyclagelosphaera prima</i>	.	.	?1	.	.	.	.	.
<i>Cyclagelosphaera reinhardtii</i>	X	.	X	.	.	.	.	.
<i>Cyclagelosphaera spp.</i>	.	X	.	.	.	.	.	.
<i>Cyclococcolithus formosus</i>	.	.	.	.	.	.	X	X
<i>Cyclococcolithus protoannulus</i>	.	.	.	.	.	.	.	X
<i>Dictyococcites bisectus</i>	.	.	.	.	.	.	.	X
<i>Dictyococcites scrippsae</i>	.	.	.	.	.	.	.	X
<i>Discoaster barbadiensis</i>	.	.	.	.	.	.	.	X
<i>Discoaster falcatus</i>	.	.	.	.	.	?	.	.
<i>Discoaster lenticularis</i>	.	.	.	.	.	1	.	.
<i>Discoaster multiradiatus</i>	.	.	.	.	.	X	.	.
<i>Discoaster saipanensis</i>	.	.	.	.	.	.	X	X
<i>Discoaster salisburgensis</i>	.	.	.	.	.	X	.	.
<i>Discoaster spp.</i>	.	.	.	.	.	.	X	.
<i>Ellipsolithus bollii</i>	X	.	X	.	.	.	.	.
<i>Ericsonia subpertusa</i>	X	X	X	.	X	X	.	.
<i>Fasciculithus aubertae</i>	.	.	.	.	.	.	?	.
<i>Fasciculithus involutus</i>	.	.	.	.	.	X	.	.
<i>Helicosphaera bramlettei</i>	.	.	.	.	.	.	X	.
<i>Helicosphaera lophota</i>	.	.	.	.	.	.	?	.
<i>Helicosphaera spp.</i>	.	.	.	.	.	.	.	X
<i>Heliolithus cantabriae</i>	2	1	.	.	.	.	.	.
<i>Heliolithus riedellii</i>	.	.	.	2	1	.	.	.
<i>Markalius inversus</i>	.	.	X	.	.	.	X	.
<i>Neochiastozygus concinnus</i>	X	.	.	.	.	.	.	.
<i>Neococcolithes sp. aff. N. protenus</i>	.	X	.	X	.	.	.	.
<i>Neococcolithes spp.</i>	X	.	.	.	X	.	X	X
<i>Neocrepidolithus spp.</i>	.	.	.	.	X	.	.	.
<i>Pemma spp.</i>	.	.	.	.	.	.	X	X
<i>Placozygus sigmoides</i>	X	X	X	X	X	.	.	.
<i>Pontosphaera spp.</i>	.	.	.	.	.	.	.	X
<i>Pseudotriquetrorhabdulus inversus</i>	.	.	.	.	.	.	?	.
<i>Reticulofenestra daviesii</i>	.	.	.	.	.	.	X	X
<i>Reticulofenestra floridana</i>	.	.	.	.	.	.	X	X
<i>Reticulofenestra umbilicus</i>	.	.	.	.	.	.	X	X
<i>Reticulofenestra spp.</i>	.	.	1c	.	.	c	.	.
<i>Rhabdosphaera spp.</i>	.	.	.	.	.	.	.	X
<i>Sphenolithus moriformis</i>	.	.	.	.	.	.	X	X
<i>Sphenolithus pseudoradians</i>	.	.	.	.	.	.	?	X
<i>Thoracosphaera spp.</i>	X	.	X	X	X	.	.	.
<i>Toweius callosus</i>	.	.	.	.	.	X	.	.
<i>Toweius eminens eminens</i>	.	.	.	.	.	X	.	.
<i>Toweius eminens tovae</i>	.	.	.	.	.	X	.	.
<i>Toweius pertusus</i>	X	X	X	X	X	X	.	.
<i>Toweius serotinus</i>	.	.	.	.	.	X	.	.
<i>Zygodiscus herlynii</i>	.	.	.	.	.	X	.	.
<i>Zygrhablithus bijugatus</i>	.	.	.	.	.	.	X	X
Cretaceous forms	.	.	X	.	.	.	.	.
Abundance	C.	C.	C.	C.	C.	C.	A	C+
Preservation	M	M	M	M	M	G.	M.	P
Depth (feet)	506.5	445	425.8	407	404	320.7	250	161
Calcareous Nannofossil Zone (Martini, 1971)	NP 5 upper	NP 5 upper	NP 5 upper	NP 8	NP 8	NP 9	NP 16/17	NP 16/17
Member	Chicora?		Chicora			M.	C.	
Formation	Williamsburg						Santee	
Subseries	Upper						Middle	
Series	Paleocene						Eocene	

M.= Moultrie, C.=Cross; X=present; .=not present; ?= possible occurrence; c=specimens from downhole contamination; 1=only one specimen observed; 2=only two specimens observed. For abundance: A=abundant or greater than 10 specimens per field of view; C=common or 1 to 10 specimens per field of view; F=frequent or 1 specimen per 1 to 10 fields of view; R=rare or 1 specimen per greater than 10 fields of view. All fields of view at 640x magnification. For preservation: G=good; M=moderate; P=poor; T=terrible.

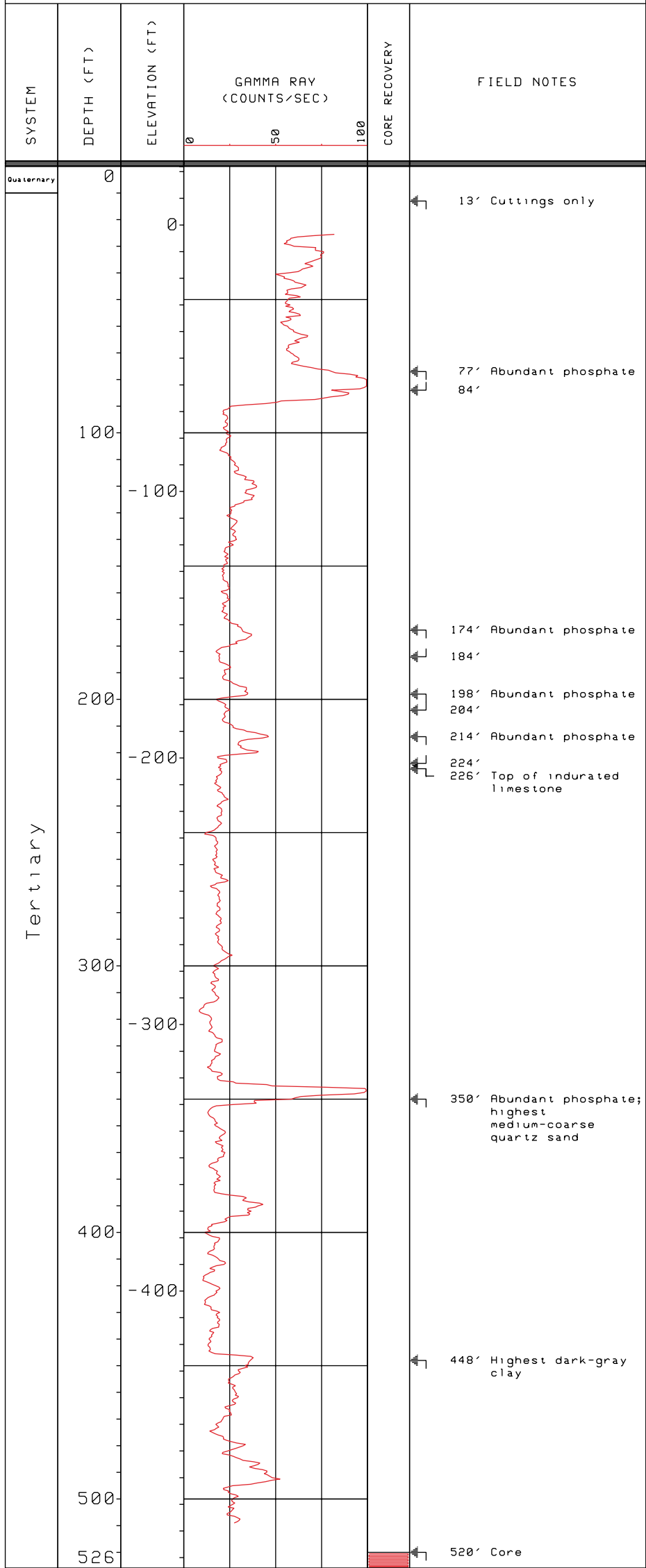
St. George core (DOR-211) -- Tertiary Calcareous Nannofossils

[Return to index map](#)



DOR-st1 FIELD LOG

Well Name :USGS - Stallville No. 1
 County :Dorchester
 State :South Carolina
 Total Depth (ft) :526
 Completion Date :1980

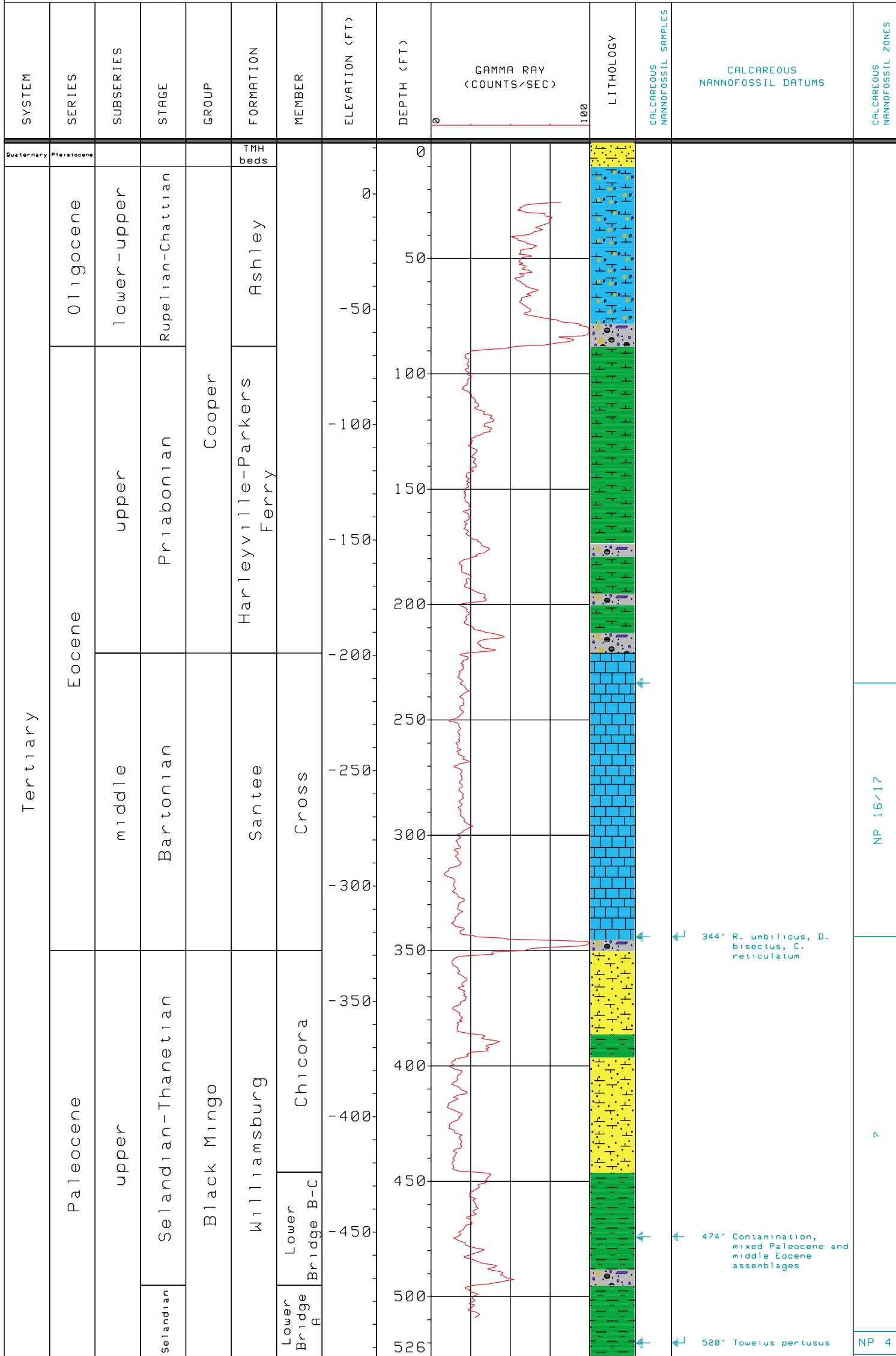


Prepared in Cooperation with the SC Dept. of Natural Resources



DOR-st1 GEOSUMMARY LOG

Well Name :USGS - Stallville No. 1
 County :Dorchester
 State :South Carolina
 Total Depth (ft) :526
 Completion Date :1980



NP 16/17

2

NP 4

Prepared in Cooperation with the SC Dept. of Natural Resources

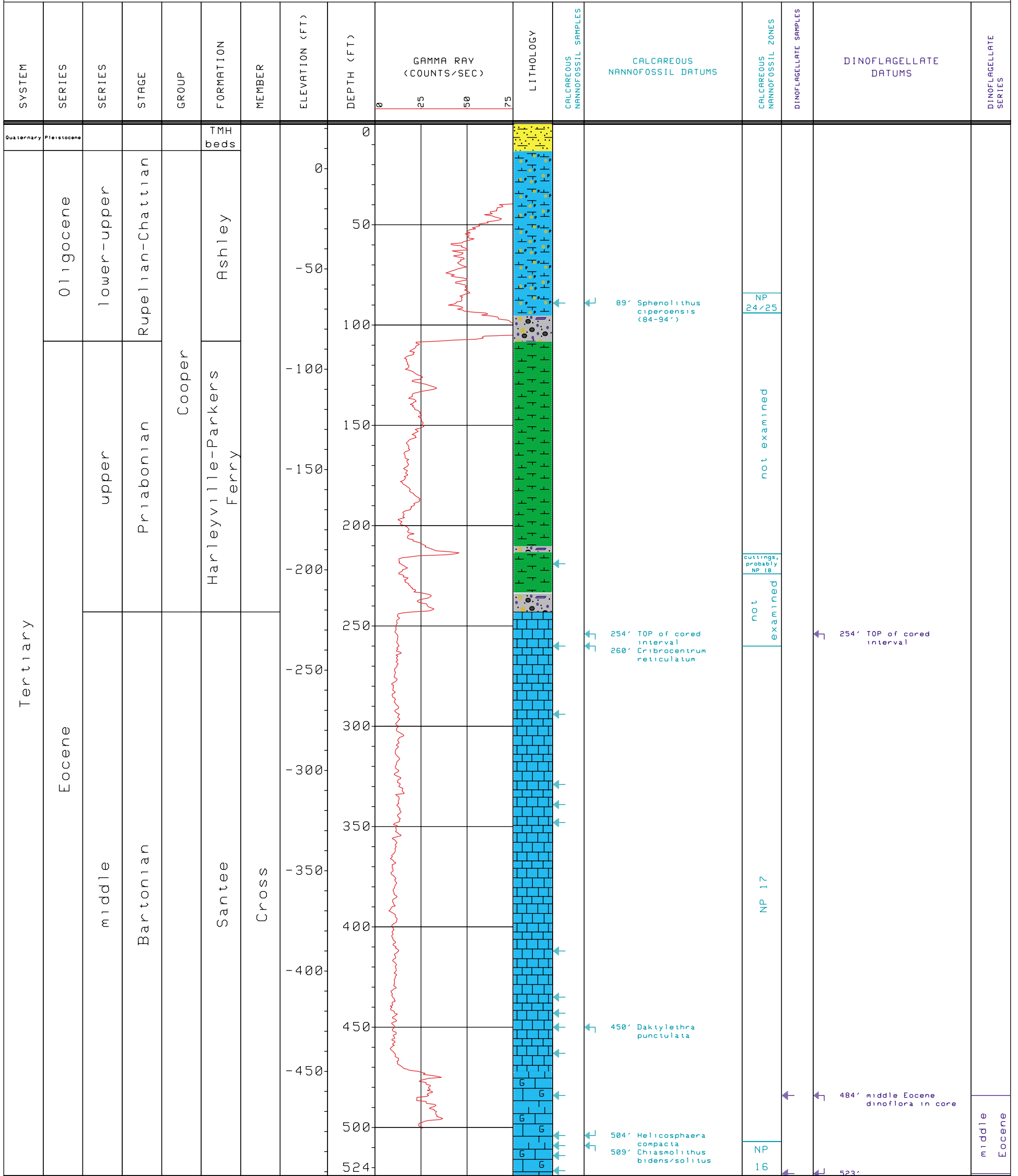
LITHOLOGY

- Muddy Sand
- Phosphatic, calcareous quartzose Clay
- Unconformity Lag
- Calcareous Clay
- Fine-grained Limestone
- Calcareous Sand
- Silty and Sandy Clay



DOR-s t2 GEOSUMMARY LOG

Well Name :USGS - Stallville No. 2
 County :Dorchester
 State :South Carolina
 Total Depth (ft) :524
 Completion Date :1980



Prepared in Cooperation with the SC Dept. of Natural Resources

LITHOLOGY

- Muddy Sand
- Phosphatic, calcareous quartzose Clay
- Unconformity Lag
- Calcareous Clay
- Fine-grained Limestone
- Glauconitic Limestone

DOR-St2, Tertiary Calcareous Nannofossils

Series	Eocene															Olig				
Subseries	Middle															U	L-U			
Formation	Santee Limestone															H-P	Ash-ley			
Member	Cross																			
Calcareous Nannofossil Zone (Martini, 1971)	NP 16	NP 16	NP 16	NP 16?	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17?	NP 24-25			
Species	Depth (feet)	524	521.5	514	509	504	484	463	450	443	435	412	348	339	329	294	260	224-214	94-84	
<i>Blackites creber</i>																				
<i>Blackites spinosus</i>		X				X	X	X	X											
<i>Blackites tenuis</i>			X			X	X													
<i>Blackites</i> spp.					X					X										
<i>Braarudosphaera bigelowii</i>		X	X		X	X		X	X										X	
<i>Braarudosphaera</i> spp.										X										
<i>Campylosphaera dela</i>		X	X	X	X	X	X													X
<i>Cepekiella lumina</i>		X	X	X	X			X	X			X	X	X	X					X
<i>Chiasmolithus bidens/solitus</i>		X	1	X	X															
<i>Chiasmolithus grandis</i>						X														
<i>Chiasmolithus titus</i>			X	X	X	X	X	X	X			X	X	X		X	X			
<i>Chiasmolithus</i> spp.									X											
<i>Coccolithus cribellum</i>						X														
<i>Coccolithus eopelagicus</i>		X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
<i>Coccolithus pelagicus</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cribocentrum reticulatum</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
<i>Cruciplacolithus</i> spp.						X														
<i>Cyclococcolithus formosus</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cyclococcolithus protoannulus</i>			X	X	X	X	X	X	X											X
<i>Daktylethra punctulata</i>		X					X		X											
<i>Dictyococcites bisectus</i>					X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Dictyococcites scrippsae</i>							X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Discoaster barbadiensis</i>		X	X			X	X			X					X	X				X
<i>Discoaster distinctus/deflandrei</i>									X		X									
<i>Discoaster saipanensis</i>			X		X		X						X							X
<i>Discoaster woodringii</i>																				X
<i>Discoaster</i> spp.								X		X										
<i>Ericsonia obruta</i>						X		X				X	X			X				X
<i>Goniolithus fluckigeri</i>								X												
<i>Helicosphaera bramlettei</i>		1?										?								
<i>Helicosphaera carteri</i>																				X
<i>Helicosphaera compacta</i>				?	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<i>Helicosphaera euphratis</i>																				?
<i>Helicosphaera heezenii</i>							X													
<i>Helicosphaera intermedia</i>																				X
<i>Helicosphaera lophota</i>		X	X	X	X	X														
<i>Helicosphaera reticulata</i>				1?																X
<i>Helicosphaera seminulum</i>				X	X	X	X	X	X											
<i>Helicosphaera seminulum/bramlettei</i>			X						X				X							X
<i>Helicosphaera</i> spp.		X																		
<i>Lanternithus minutus</i>										X										X
<i>Markalius inversus</i>		X	X	X		X	X		X	X		X	X	X	X					X
<i>Micrantholithus</i> spp.																				X
<i>Neococcolithes dubius</i>							X		X											
<i>Neococcolithes</i> spp.		X		X			X		X		X		X							
<i>Pedinocyclus larvalis</i>				X		X														X
<i>Pemma basquense</i>						X	X	X												X
<i>Pemma papillatum</i>			X	X		X	X		X						X					X
<i>Pemma rotundum</i>											?									
<i>Pemma serratum</i>																				X
<i>Pemma</i> spp.								X		X	X	X	X	X	X					
<i>Pentaster lisbonensis</i>						X	X													
<i>Pontosphaera multipora</i>						X	X													
<i>Pontosphaera wechesensis</i>		X		X					X											
<i>Pontosphaera</i> spp.				X																
<i>Pseudotriquetrorhabdulus inversus</i>						X														
<i>Reticulofenestra abisecta</i>																				X
<i>Reticulofenestra daviesii</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Reticulofenestra floridana</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Reticulofenestra hillae</i>		X	X																	X
<i>Reticulofenestra pseudolockeri</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Reticulofenestra umbilicus</i>		X	X			X	X													X
<i>Reticulofenestra</i> sp. large		X	X			X	X													
<i>Rhabdosphaera gladius</i>										1										
<i>Sphenolithus ciperensis</i>																				X
<i>Sphenolithus moriformis</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Sphenolithus obtusus</i>				X																?
<i>Sphenolithus predistentus</i>						X	X		X											
<i>Sphenolithus pseudoradians</i>		X		X		X	X													X
<i>Sphenolithus radians</i>											?	?								
<i>Sphenolithus</i> spp.															X	X				
<i>Thoracosphaera</i> spp.		X	X														X	X	X	X
<i>Transversopontis pulcher</i>		X	X	X	X	X		X		X		X			X	X	X			X
<i>Transversopontis pulcheroides</i>		X	X	X	X	X		X		X		X			X	X	X			X
<i>Transversopontis zigzag</i>		X	X			X							X	X						X
<i>Zygrhablithus bijugatus</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cretaceous forms					X															
Abundance		C	A	A	A	C	A	A	C	F+	C	C	A	A+	C+	C+	A-	A-	A-	A-
Preservation		M	G	P	P	M	M	P	M+	M-	P	P	P	P	P	M	P	P	P	M
Depth (feet)		524	521.5	514	509	504	484	463	450	443	435	412	348	339	329	294	260	224-214	94-84	
Calcareous Nannofossil Zone (Martini, 1971)		NP 16	NP 16	NP 16	NP 16?	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 18?	NP 24-25	
Member		Cross															Ash-ley			
Formation		Santee Limestone															H-P			
Subseries		Middle															U			
Series		Eocene															Olig			

U, upper; H-P, Harleyville-Parkers Ferry Formations; X, present; . =not present; ?, possible occurrence; c=specimens from downhole contamination; 1=only one specimen observed. For abundance: A=abundant or greater than 10 specimens per field of view; C=common or 1 to 10 specimens per field of view; F=frequent or 1 specimen per 1 to 10 fields of view; R=rare or 1 specimen per greater than 10 fields of view. All fields of view at 640x magnification. For preservation: G=good; M=moderate; P=poor; T=terrible.

DOR-St2, Tertiary Calcareous Nannofossils

[Return to index map](#)