

COUNTY: Onslow

LOCATION: ~343601 Lat ~772858 Long

WELL CODE (NCGS): ON-T-1-82

ELEVATION (msl) ± 65 ft.

WELL CODE (NCDGW): Y-25;q-2(x)

TOTAL DEPTH 1340 ft.

TYPE OF SAMPLE: Cuttings

LITHOLOGY BY: R. V. Smith

PALEONTOLOGY BY: P. M. Brown

COMMENTS: Lithology correlated to ON-OT-22 approximately 3 mi North and ON-OT-25 approximately 7 mi Southeast. Below 600 ft cutting depths were adjusted to agree with lithologic interpretations derived from electric & gamma logs. Anomalous mineralogic(glaucinite)

DATE: 6/21/82

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& paleontologic(forams/ostracoda) occurrences indicate cutting contamination below 600-700 ft. Below 1200 ft lithologic interpretation based solely on cuttings. No log data below 1200 ft.

DEPTH(ft)	LITHOLOGY	AGE	UNIT	FAUNA
0-70	<u>Sst(?)</u> :Lith/age derived from correlation to nearby wells & gamma log interpretation. No cuttings available.	Pliocene ?	Yorktown/ Waccamaw fms (?)	None
70-150	<u>Sst</u> : lt gry(N6) to gn-gry(5GY 6/1), f-m gr, ang-sbang, mod srt qtz w/10-30% calc as grns&cmt, abd microfos & shl frags, mnr cl, phos, lig frags.	Oligocene	River Bend Fm	Leguminocythereis cf. L. scarabaeus- <u>Aurila kniffeni</u> Concurrent-range zone
150-180	<u>Ls</u> : gn-gry(5GY 6/1), biomicrosp w/mnr qtz & pyr, appr 20% cl, abd sm forams, ostr, bry frags, shl frags.	aa	aa	aa <u>M. Eoc.-Claibdrnian</u> <u>Acanthocythereis?</u> str
180-260	<u>Ls</u> : yel-gry(5Y 7/2), biomicrosp w/abd microfos & bry frags, r lt gn glauc.	Eocene	Castle Hayne Ls ←	<u>Actinocythereis</u> <u>dauidwhitei</u> Concurrent-ranr
260-470	<u>Sst</u> : gn-gry(5GY 6/1), f-cse gr, mod-poorly srt, ang-sbang qtz w/com-mnr microfos, shl frags, glauc, appr 5-10% cl, mnr mic, ls frags, agg.	Upper Cretaceous	Peedee Fm (Unit "A")	<u>Veenia arachoi</u> <u>Brachycythr</u> <u>rhomboida</u> Concurr
470-520	<u>Cl</u> : olive-gry(5Y 4/1), w/f-cse gr, ang-sbang, poorly srt qtz, com shl frags, rndd amethyst, microfos, mic, mnr glauc, pyr/marcasite.	Upper Cretaceous	Black Creek Fm (Unit "B")	<u>Brachycr</u> <u>spheno.</u> <u>quadriali.</u> Concurrent-r
520-600	<u>Sst</u> : olive-gry(5Y 4/1) to gn-gry(5GY 6/1), f-m gr, ang-sbang, mod srt qtz w/com-mnr glauc, shl frags & mic, mnr microfos & lig frags, appr 15-30% cl.	aa	aa	aa
600-690	<u>Cl</u> : olive-gry(5Y 4/1), w/ f-m gr, ang-sbang, mod srt qtz, com glauc, shl frags & microfos, com-mnr ls frags, mic, agg cmt by calc, mnr amber & lig frags.	aa	aa	aa

DESCRIPTIVE LOG (cont.)

DEPTH(ft)	LITHOLOGY	AGE	UNIT	FAUNA
690-700	<u>Sst</u> : olive-gry(5Y 4/1), m gr, ang-sbang. mod srt qtz w/appr 40% glauc, com pyr/marcasite, mnr shl frags & microfoss, appr 10% cl.	aa	aa	aa
700-720	<u>Cl</u> : olive-gry(5Y 4/1), w/m-cse gr qtz, abd glauc, pyr/marcasite & shl frags, mnr lig frags & mic.	aa	aa	aa
720-750	<u>Sst</u> : olive-gry(5Y 4/1), m gr, ang-sbang, mod srt qtz w/abd glauc, mnr shl frags, mic, lig frags & microfoss, appr 20% cl.	aa	aa	aa
750-770	<u>Cl</u> : olive-gry(5Y 4/1), w/f-m gr qtz, abd glauc & agg cmt by cl/calc, com-mnr microfoss & mic, mnr pyr/marcasite, lig frags, mic, shl frags & bu(10YR 8/2) f gr sst frags.	aa	aa	aa
770-805	<u>Sst</u> : olive-gry(5Y 4/1). m-cse gr, ang-sbang, poorly srt, com rndd qtz w/abd mic com fspr, glauc & lig frags, mnr microfoss shl frags, bu sst frags.	Upper Cretaceous	Unit "C" (undifferentiated Black Creek/Middendorf fms)	<u>Brachycthere nausiformis</u> Assemblage zone
805-820	<u>Cl</u> : olive-gry(5Y 4/1), w/m gr qtz, abd glauc, mic & lig frags, com mky qtz, mnr microfoss, r shl frags.	aa	aa	aa
820-860	<u>Sst</u> : olive-gry(5Y 4/1), m-cse gr, ang-sbang, mod srt qtz w/abd glauc, com pyr/marcasite & mic, mnr shl frags, microfoss & lig frags, appr 30-40% cl.	aa	aa	aa
860-880	<u>Cl</u> : olive-gry(5Y 4/1), w/f-m gr qtz, abd glauc, mic & lig frags, mnr pyr/marcasite shl frags & microfoss.	aa	aa	aa
880-1040	<u>Sst</u> : olive-gry(5Y 4/1), f-m gr, ang-sbang mod srt qtz w/abd glauc, com-mnr pyr/marcasite, mic, lig frags, shl frags & microfoss, appr 5-20% cl.	aa	aa	aa
1040-1150	<u>Cl</u> : olive-gry(5Y 4/1), w/m-cse gr qtz, abd glauc, com-mnr pyr/marcasite & shl frags, mnr microfoss & lig frags, r brt rd sst frags.	Upper Cretaceous	Unit "D" (Tuscaloosa Fm)	No indigenous fauna from this unit
1150-1200	<u>Sst</u> : m dk gry(N4), m-cse gr, ang-sbang, mod-poorly srt qtz w/abd glauc & shl frags, mnr mic, microfoss, pyr/marcasite & lig frags, r brt rd sst frags, appr 10-20% cl.	aa	aa	aa

DESCRIPTIVE LOG (cont.)

DEPTH(ft)	LITHOLOGY	AGE	UNIT	FAUNA
1200-1240	<u>Cl</u> : olive-gry(5Y 4/1), w/f-m gr qtz, abd glauc, com shl frags, mnr Fe stn on qtz grs, com-mnr Fe agg, mnr-r microfoss.	aa	aa	aa
1240-1340	<u>Sst</u> : olive-gry(5Y 4/1), m-cse gr, ang-sbang, poorly srt qtz w/abd glauc & Fe agg, com pyr/marcasite, mnr shl frags, lig frags, mic, mnr-r microfoss, appr 5% cl.	aa	aa	aa