

DESCRIPTIVE LOG

Well Code WY-T-1-84
 County Wayne
 X-reference --
 Date Drilled 4-19-84
 Date Examined 6-5-84
 Examined By RME
 Correlated To WY-T-1-58 (T-8)
 Comments no micro fossils observed in washed samples

Total Depth 221 feet
 Elevation (MSL) 90118 feet
 Latitude 352230
 Longitude 775721

Depth	Lithology	Unit-Age
0 - 14	Sst: m-c sd & f grv; sbrndd to sbang; poorly srt qtz; com Fe oxide staining; tr lig and amethyst; r phos.	unnamed - undiff. Holo/Pleistocene
14 - 38	Slt Sst: olv gry (5Y 3/2); f-m gr; sbrndd to sbang; mod wl srt qtz; abd-mnr glauc, mic, pry/marc, & lig; mnr Fe oxide staining & amethyst; tr amber.	Units "B" and "C" undifferentiated - Black Creek Formation - Upper Cretaceous
38 - 64	Cl: brnsh blk (5Y R 2/1) & olv gry (5Y 4/1); abd-cmn mic & lig; cmn-mnr pyr/marc; mnr-r glauc.	
64 - 86	Sst: lt olv gry (5Y 6/1) & m gry (N5); m-c gr; sbrndd to sbang; poorly srt qtz & fspar;; cmn-mnr fspr; mnr-tr mic; tr amethyst & rose qtz.	Unit "D" Cape Fear Formation (?) Upper Cretaceous
86 - 107	Sdy Cl: brnsh gry (5Y R 4/1) & v lt gry (N8); com-mnr rose qtz & fspr; mnr-tr mic & amethyst; mnr Fe oxide staining.	
107 - 126	Cly Sst: m-c sd & f grv; sbrndd to sbang; poorly srt qtz and fspr; mnr-tr fspr & mic.	Unit "D" Cape Fear Formation (?) Upper Cretaceous
126 - 164	Sdy Cl & Cly Sltst: brnsh gry (5Y R 4/1) & yelsh gry (5Y 7/2) w/ dusky rd (5R 3/4) mottling; abd-com Fe oxide staining; com-mnr rose qtz; mnr-tr fspr, mic, & amethyst; tr pyr/marc; r grn mic.	
164 - 171	Sdy Grv: pale yelsh or (10Y R 8/6) & mod rdsh or (10R 6/6); m-c sd & f-c grv; sbang to ang; poorly srt qtz; abd Fe oxide staining.	
171 - 221	Xln Bm: phyllite	Basement

SAMPLE DESCRIPTION

Well # WY-T-1-84 TD 221 Examined by: RME Date 6/5/84 - 6/6/84

p. 1 of 2

Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

WASHED SAMPLES

Interval	Rock Type	From unwashed samples Color	Texture			Quartz	Feldspar	Glaucophane	Phosphonite	Calcite	Shell	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Siderite	Limestone	Dolomite	M. Fossils	Fe-Stain	Remarks	
			Grain Size	Grain Shape	Sorting																			
0/10	sst	lt. tan	m-c w/ gravel	SR	Poor	X		R				T	T										Fe-oxide cemented gte. grains	
10/20	sst	cream colored	m-c gravel	SR-SA	poor	X	T	T				T	T	T										little frag. of cream colored siltstone w/ fine gravel lt. green glauc. Common Citrine
20/30	clay v.f. gr. sst	olive gray (SY 3/2)	silt-md	SA-SR	mod	X		A			A	C	A	T	R	T								dist. green. fig. glauc green mica of glauc.
30/40	fg sst			SR-SA		X		M			A	M	A		T	T								large chunks of white / sand aggreg. prominent decuss cream colored fine sandy siltst in glaucite
40/50	clay	brownish blk (SYR 2/1)						M			A	M	C											abund. tiny blebs of clay
50/60	sst clay	AA and olive gray (SY 4/1)				X		R			C	C	T	M	T									aggregates of gte. & pyrite
60/70	sst clay					X	M	R				M												sst & glaucite (white clay matrix w/ sand sized particles) clay frags (dark brown & waxey) w/ mica; sand sized gte. incl. rose gte. and minor lignite
70/80	sst		m-c	SR-SA	poor	X	C				M	M	T	M	T	T								
80/90	sst	m. gray (NS) and lt. olive gray (SY 6/1)	F-v	HT	poor	X	C	R			T	M	R	M	T	T								glauc., pyrite, & amber in some of sst frags (blk clay matrix)
90/100	clay sst		F-m		mod	X	M	T			M	C	R	T	C	T								cream colored sandy clay and dark brown clay w/ lignite pyrite cubes
100/110	clay sst		m-c gravel	SR-SA	poor	X	M	R				M	R	M	C	T								clayey sst w/ rose gte. grains, Fe oxide coloring gray clay frags; lt. brown waxy"-looking clay
110/120	AA	-less clay than above	AA	AA	AA	X	M					M	R											
120/130	clay sand		AA	AA	AA	X	T	/				T	T	/		M	R							rare orange red silt chips coarser sand & gravel fraction
130/140	silty clay	change in color orange & red mottling on gray clay				X	T					M												Common orange & yellow Fe oxide cemented sand grains & clay cream colored sandy clay (micaceous)
140/150	silty clay	brownish gray (SYR 9/1) w/ red mottling (SY 2/9)	F-m	SA-SR	mod	X		R			C	T			M									abundant orange & yellow Fe oxide cemented sand grains & clay
150/160	silty clay	yellowish gray (SY 7/2) brownish gray (SY 4/1) and red mottling (black clay pods)	F-m gravel		poor	X					C	T												rare green exfoliated mica silver-gold metallic mineral (pyrite) inside Fe oxide grains
160/170	gravel	light gray clay matrix w/ trace of pink - gravel, orange & brown red mottling				X																		gravel in clay matrix QUARTZ GRAVEL up to 1/2" in length
170/180	phylite	pale brown gray silty w/ red mottling / phylites																						
180/190																								
190/200																								
200/210	phylite	olive blk (SY 2/1) and H. olive																						black clay is "clacky"
210/221		AA																						

Black Creek

Unit D

Basement

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 Comments no micro fossils observed in washed samples

Total Depth 221 feet
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Depth	Lithology	Unit-Age
0 - 14	Sst: m-c sd & f grv; sbrndd to sbang; poorly srt qtz; com Fe oxide staining; tr lig and amethyst; r phos.	unnamed - undiff. Holo/Pleistocene
14 - 38	Sltly Sst: olv gry (5Y 3/2); f-m gr; sbrndd to sbang; mod wl srt qtz; abd-mnr glauc, mic, pry/marc, & lig; mnr Fe oxide staining & amethyst; tr amber.	Units "B" and "C" undifferentiated - Black Creek Formation - Upper Cretaceous
38 - 64	Cl: brnsh blk (5Y R 2/1) & olv gry (5Y 4/1); abd-cmn mic & lig; cmn-mnr pyr/marc; mnr-r glauc.	
64 - 86	Sst: lt olv gry (5Y 6/1) & m gry (N5); m-c gr; sbrndd to sbang; poorly srt qtz & fsp̄r;; cmn-mnr fspr; mnr-tr mic; tr amethyst & rose qtz.	Unit "D" Cape Fear Formation (?) <i>Upper Cretaceous</i>
86 - 107	Sdy Cl: brnsh gry (5Y R 4/1) & v lt gry (N8); com-mnr rose qtz & fspr; mnr-tr mic & amethyst; mnr Fe oxide staining.	
107 - 126	Cly Sst: m-c sd & f grv; sbrndd to sbang; poorly srt qtz and fspr; mnr-tr fspr & mic.	Unit "D" Cape Fear Formation (?) Upper Cretaceous
126 - 164	Sdy Cl & Cly Sltst: brnsh gry (5Y R 4/1) & yelsh gry (5Y 7/2) w/ dusky rd (5R 3/4) mottling; abd-com Fe oxide staining; com-mnr rose qtz; mnr-tr fspr, mic, & amethyst; tr pyr/marc; r grn mic.	
164 - 171	Sdy Grv: pale yelsh or (10Y R 8/6) & mod rdsh or (10R 6/6); m-c sd & f-c grv; sbang to ang; poorly srt qtz; abd Fe oxide staining.	
171 - 221	Xln Bm: phyllite	Basement

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County WAYNE

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Correlated To WY-T-1-58 (T-B)

Comments no microfossils observed in v.

Depth	Lithology
0-14	<u>Sst</u> m-c. sd & f grv; sbrndd to sbo poorly srt qtz; com Fe oxide sta tr lig and amethyst; r phos.
14-38	<u>Sity sst</u> : olv gry (5Y 3/2); f-m sbrndd to sbang; mod wl srt g abd-mar glauc, mic, pyr/marc, mnr Fe oxide staining & amethyst tr amber.
38-64	<u>Cl</u> : brnsh blk (5YR 2/1) & olv r (5Y 4/1); abd-emn mic & lig emn-mnr pyr/marc; mnr-r gl
64-86	<u>Sst</u> : lt olv gry (5Y 6/1) & m gry m-c gr; sbrndd to sbang; poor qtz & fspr; emn-mnr fspr; tr mic; tr amethyst & rose qtz.
86-107	<u>Sdy Cl</u> : brnsh gry (5YR 4/1); v. th com-mnr rose qtz & fspr; mnr-tr mic & mnr Fe oxide staining.

Well Code WV-7

Depth	Lithology
07-126	clay sst: m-c sd & f grv; sb sbang; poorly srt qtz and fspr; mar- & mic.

DESCRIPTIVE LOG

p. 1 of 2

Total Depth 221 feet
 Elevation (MSL) 90 feet
 Latitude 352230
 Longitude 775721

(I-8)

observed in washed sample

Lithology	Unit-Age
grv; sbrndd to sbang; m Fe oxide staining; st; r phos.	unconformity - undiff. hole/ Pleistocene
(SY 3/2); f-m gr; g; mod wl srt qtz; mic, pyr/marc, & lig; mining & amethyst;	units "B" and "C" undifferentiated Black Creek Formation - Upper Cretaceous
(4R-2/1) & olv gry emp. mic. & lig; marc; mar- r glauc.	
(SY 6/1) & m gry (NS); to sbang; poorly srt - marc fspr; mar- yst & rose qtz.	Unit "D" Cape Fear Formation (?)
ry (SY R 4/1) v (gry (NS); pr; mar- tr mic & amethyst; lig.	

Lithology	Unit-Age
sd & f grv; sbrndd t and fspr; minr-tr fspr	Unit "D" Cape Fear formation (?) Upper Cretaceous
gry (5YR 4/1) & yelsh 1 dusky rd (5R 3/4) <small>to oxide staining</small> minr rose gtz; minr-tr amethyst; tr pyr / marc;	
yelsh or (10YR 8/6) & (10R 6/6); m-c sd & g to ang; poorly ort oxide staining.	
te	Basement

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SE GOLDSBORO
7.5

W4-T-1-84

