

JOH-A-3 Preliminary Rcks

Position on Average Flights

0-29 feet cretaceous - typical cuttings and gamma log

29- 44 feet gray clay - remains of clay on flight - not as
dark as typical black creek - black creek? or
Unit D

65 feet to
bottom (105)

first clay and then sand with siderite - list of
call on basis of washed samples, driller's log,
and geophysical log

5 Took out - saw top of [unclear] would be [unclear] feet

calls from geography and log

0-30 feet - exposure

30-60 feet - unit C or D most likely unit C as C lithology
outcrops in this area

60 - 105 unit F

11/1/22 EAB

-14-83 Lithology (described while drilling)	Footage	Drilling Time	Drilling Remarks	JOH-A Lithology (described from pulled flights)
Same as above	55	48 sec.	- slowed	brown muddy coarse sand flight \approx 1/2 full X Sampled from lower 1/3 flight
Same as above no sample collected	60	36 sec.	- refusal	flight full \rightarrow gte. pebbles not seen tannish brown sand (like above) till middle of flight then a greenish gray coarse micaceous sand. X (note tan sand is closest to auger - ground bit)
same as above no sample collected	65	40 sec.	- slower	gray sandy clay X Sampled lower 1/2 flight
Soupy brown gray coarse sand same as above sample taken	70	42 sec.	relatively easy	X ^{bluish} stiff gray sandy clay Sampled upper and lower flight. X All flights have been full since 60'
nothing came up as flight was spinning no sample	75	44 sec.	- slowed - slowed a bit	upper 1/2 same as above lower clay is less sandy X Sampled lower 1/3 flight
Soupy brown gray medium sand sample taken	80	57 sec.	- slowed	same stiff clay X color change to more choc. sampled from middle of flight. back to gray
Soupy brown gray med. sand sample taken	85	37 sec.	relatively easy	same stiff clay no sample \approx 1/2" lower flight has thin seams of yellow clayey fine gravel
Soupy brown gray mud w/ some med. sized sand no sample	90	46 sec.	- slower	same stiff clay becomes sandier \downarrow X yellow gravels towards bottom sampled at bottom flight
Screwed down flights no spinning no sample	95	47 sec.	slow easy	clay flight only 1/2 full X tan sands & gravels with orange and red mottling Sampled lower 1/2 flight
Screwed down flights no spinning brown & gray mud up as drilling no sample	100	1 min. 10 sec.	Slow	light gray coarse micaceous sand flight 1/2 full
no spinning no sample	105	1 min. 10 sec.		X Same sand as above sandy micaceous clay from bit

6-14-83 Lithology (described while drilling)	Billie Flynt Driller Becca Enos - Geologist Footage	Drilling Time	Drilling Remarks	JOH-A-2 Lithology (described from pulled flights)
light tan coarse Sandy soil	5'	37 sec.	easy.	no sample collected flight fairly empty
tan orange ^{clayey} coarse Sandy soil more clay and wetter than above sample	10'	1min.	easy	gray clayey sand with streaks of orange sand flights fairly empty no sample
light tannish orange clayey coarse sand. wetter than above sample	15'	1min. 4sec.	easy	tan and orange ^{clayey} coarse sand with dark gray clay pods sampled lower 1/2 of flight
light tannish orange clayey coarse sand to fine gravel. WET. soupy when spinned	20'	35 sec.	easy	flight fairly empty tan and orange clayey coarse sand no sample
light orangish tan soupy coarse sand to fine gravel	25'	33 sec.	easy	flight empty lithology same as above no sample
water show when spinning color change - brown tan clayey coarse sand to fine gravel. soupy	30'	33 sec	easy sec.	dark gray sandy clay sampled lower 1/3 flight
brown soupy coarse sand dark gray clay chunks brought up as spinned	35'	42 sec.	a bit more pressure needed	flight empty no sample
brown soupy coarse sand	40'	40 sec.	slowed a bit relatively easy	dark ^{gray} sandy clay with yellow orange mottling. sampled lower 1/4 flight
stiff black silty clay in tan gray soupy coarse sand	45'	40 sec.	drill sounds different	tan brown clayey coarse sand with pods of dark gray clay sampled lower 1/4 flight
tan gray soupy coarse sand	50'	40 sec.		dark gray sandy clay flights empty above lower 1/3 sampled lower 1/3 flight

Well # JOH-A-2 TD 105 Examined by: SRD Date 11/10/83

p. _____ of _____

[illegible]

Johnston County (2)

