PERCENT FINES

Ri15-1

Assawoman Wildlife Area Geothermal drilling project hole

9/1-9/2/78

DESCRIPTIVE LOG

(Depths measured from K.B. elevation of 8 feet above ground) KDW:

Depths	Description C	ollected by	
140-150	Sand, gray, fine well sorted	driller	
150-160	Sand, gray, fine well sorted	driller	
160-170	Sand, gray, med., well sorted	driller	
170-180	Sand, med. to fine, gray	driller	
180-190	Sand, med. to fine, gray	driller	
190-200	Sand, gray, fine, well sorted	driller	
200-210	Sand, gray, fine, well sorted	driller	
210-220	Sand, gray, fine, well sorted	driller	
220-230	Sand, gray, med. to some coarse, clean driller		
230-240	Sand, gray, mostly coarse, clean	driller	
469	Clayey, glauconitic, probably becoming silty. Samples coming very fast (unreliable?); Sand may be from offside of hole, eroded due to high mud velocity.		
500-511	No sand in returns, probably silt (St. Mary's?), drilling slower, lignite rare.		
~ 525	Drills like sand for a few feet; or no sand in returns.	little	
~ 530	Drilling slower, no sand in retu probably silty.	rns,	
542	Same as above		

DESCRIPTIVE LOG

Ri-15-1	Page 2		
Assawoman Wildlife Area Geothermal drilling project hole		9/1-9/2/78	
Depth	Description	<u>.</u>	
542-55	55 Silt, no sand in re drilling slow.	turns,	
~ 572	approximately 13'. core catcher at 59	Silt, gray (?) Cored interval 574-599, recovered approximately 13'. DGS sample from core catcher at 599': top is gray silt, bottom is gray sand.	
RNB:	Core catcher sampl	e, 599':	
,	<pre>benthic assemblage tank (?)), middle paleoenvironment - diatoms; rare ostr ments (bivalves mo</pre>	; a few pyritized acodes; shell frag-stly); fine to med. (?)	
600-63	30 Shell fragments, co	arse sand.	
660	Same plus gray silt	, lignite in returns.	
670-69		Same, increase in sand and lignite; shell fragments mostly of bivalves and barnacles.	
690-72	20 Same, increase in s	hell fragments.	
750	Same.		
780	Gravelly sand, with	shell, silt.	
JHT:			
890-92	24 Sand, med. to very shell, lignite. E	coarse with small gravel, asy drilling.	
924-95	shell fragments (2	dstone containing shell 0 minutes to drill 30': tring chattering; 946-952	
952-98	Sand, med. to very fragments. (Drille	coarse, lignite, shell dd 20' in 9-10 minutes).	
		-988': Cored only 6' s of rock; recovered	

DESCRIPTIVE LOG

Ril5-1 Assawoman Wildlife Area Geothermal drilling project hole

9/1-9/2/78

Page 3

Depth

Description

RNB:

- 988' (core catcher) sandstone, hard, silica cemented, medium to coarse; (mostly breaks around grains; shelly (bivalves, barnacles); vuggy; black grains, med. to coarse, of phosphate (?), bone (?), chert (?).
- 982'(?) Sand at top of core, fine to med. grained, silty, with some large shell fragments; large bone fragment.
- 987-988(?) Sand above hard ss at 988': medium grained, fairly well sorted; w/ black phosphate (?) grains, some bone phosphate, barnacle and bivalve fragments.

Cored interval 988-1007': only recovery was approximately 1' of hard ss as above, in core catcher.