of Special Section		VDMR WEL	L NO. 016	5
Sheet No.	00		rval -100	
PROP: NESTLE CO. PLANT DUNTY: NANSEMOND COMP: LAYNE ATLANTIC CO.		Total Depth	1006	
		OilGas	Water	Exploratory
VDMR WELL NO	: 0165	Cuttings	Core	Other
FROM:	10:			
	D	From-To	From-To	From-To
From-To	From-To		FIOIII-10	FIOH-10
1 - 8 27	350-37009	815 -82314		
8-1029	370-39121	823-9659	-	-
10-2025	391-43222	965-100618	-	
20-286	432-4537	-/	-	
28-3235	453-47638	-	-	-
32-3720	476-49335	-	-	•
7-4535	493-51437	÷ in the second		÷
45-5827	514-53512			-
58-7225	535-55533	-	-	•
72-9728	555-60248	-		
97-10218	602-617 36		<u>-</u>	
102-14330	617-637	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	
143-1500	637-658 20		per .	
150-180 24	658-679	-	out .	-
180 18327	679-69928	-		

183-2712 699-7352

271 - 30127 735 - 74535

01-31044 745-80708

310-35034 807-815 49

OWNER: DRILLER: COUNTY:

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Nestle Company Plant # 1 Layne Atlantic Nansemond Co.

VDMR #0165 WWCR # 5 Depth: 1006'

SAMPLE EXAMINATION (washed)

	PLEISTOCENE	COLUMBIA GROUP
8-0	Sand, very fine grained, silty, arg large quartz grains	gillaceous, yellow. Few
8+20	Sand, quartz, fine to medium graine with shell fragments	ed, angular, frosted.
20-57	Sand, fine grained with abundant cashell fragments. Few large quartz	
.*	MICCENE	CHESAPEAKE GROUP
57+73	Shell bed	
73-150	Sand, quartz, fine grained, slightl gillaceous, mainor shell fragments	y glauconitic, ar-
150-180	Clay, yellow-brown, very sandy, gravery argillaceous sand. With shell	
180-183	Sand, fine grained, very argillaced	ous
183-273	Clay, brown-green-gray, very sandy, with minor shell fragments	, slightly glauconitic
	EOCENE	PAMUNKEY GROUP
273-310	Sand, quartz, fine to medium grains angular to rounded, argillaceous. of phosphate/ Slightly glauconitic at base	Occasional black pellets
310-350	Sand, green-black, glauconite and c	quartz argillaceous
350-392	Sand, quartz, fine to medium graine glauconitic becoming argillaceous a into below;	

392-476	Clay, brown, very sandy, slightly glauconitic
476-514	Sand, quartz, fine to medium grained, angular, clear to frosted, micaceous, slightly glauconitic, few shell fragments, argilaceous at base
514-536	Clay, brown, slightly glauconitic, silty to sandy
536-616	Sand, very fine to coarse grained, argillaceous, clear to frosted, micaceous, slightly glauconitic
616 - 736	Clay, brown, with minor red and orchre in part, glauconitic, sandy, micaceous in part.
736 - 746	Sand, quartz, white, fine to medium grained, angular, clear to frosted
746-806	Clay, brown, sandy, glauconitic, micaceous
806-816	Sand, quartz, medium grained, angular to rounded, white. traces pyrite and shell fragments
816-826	Clay as above
826-965	Sand, quartz, white, medium grained, subangular, clear to frosted, very slightly glauconitic
965-1006	Clay, brown-pink, slightly micaceous, very sandy, glauconitic. One large crystal of white feldspar imbedded in clay.

GEOLOGIC SUMMARY

Pliestocene	Columbia Gp.	Surface-57?
Miocene	Chesapeake Gp.	577-273
Eocene	Pamunkey Gp.	273 - ?

VIRGINIA DIVISION OF MINERAL RESOURCES William Dudley, Geologist September 1958

746-806

Prop: Nestle Company Plant Contractor: Layne Atlantic

Interval	PLEISTOCENE Description COLUMBIA GROUP
0-8	sund, very fine grained, silty, argillaceous, yellow. Few large quartz grains
8-20	sand, quartz, fine to medium grained, angular, frosted. With shell fragments
20-57	sand, fine grained with abundant calcareous clay and shell fragments. Few large quartz grains
57-73	Shell bed CHESAPEARE GROUP
73-150	sand, quartz, fine grained, slightly glauconitic, argillaccous, minor shell fragments
150-180	clay, yellow-brown, very sandy, grading in part to very argillaceous sand. With shell fragments
100-183	sand, fine grained, very argillaceous
183-273	clay, brown-green-gray, very sandy, slightly glaucouitic with minor shell fragments
273-310	EOCEME PAMUNKEY GROUP sand, quartz, fine to medium grained, clear to frosted, angular to rounded, argillaceous. Occasional black pellets of phosphate? slightly glauconitic becoming glauconitic at base
310-350	sand, green-black, glauconite and quartz argillaceous
350-392	sand, quartz, fine to medium grained, angular, slightly glauconitic becoming argillaceous at base and grading into below:
392-476	clay, brown, very sandy, slightly glauconitic
476-514	sand, quartz, fine to medium grained, angular, clear to frosted, micaceous, slightly glauconitic, few shell fragments, argillaceous at base
514-536	clay, brown, slightly glauconitic, silty to sandy
536-616	send, very fine to coarse grained, argillaceous, clear to frosted, micaceous, slightly glauconitic
616-736	clay, brown, with minor red and other in part, glauconitic, sandy, micaccous in part.
736-746	sand, quartz, white, fine to medium grained, angular, clear to frosted

clay, brown, sandy, glauconitic, micaceous

sand, quartz, medium grained, angular to rounded, white. Traces pyrite and shell fragments
clay as above
sand, quartz, white, medium grained, subangular, clear to frosted, very slightly glauconitic
clay, brown-pink, slightly micaceous, very sandy, glauconitic. One lurge crystal of white feldspar imbedded in clay.

SUMMARY

Pl	iestocene
经基	ocene
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Colombia Gp. Chesapeake Gp. Pamunkey Gp. Surface - 57? 57 ? - 273 273 - ?