

VDMR WELL NO. 0173

Sample Interval 34-528

Total Depth ?

Oil      Gas      Water  Exploratory     

Cuttings  Core      Other     

See Circular 3 p. 71

No. 1

PROP: NEWPORT NEWS GAS CO. #1  
 COMP: LAYNE-ATLANTIC  
 COUNTY: WARWICK  
 VDMR WELL NO: 0173  
 FROM:                    TO:

<u>From-To UNWASHED SAMPLES</u>	<u>From-To FLOAT REJECTED</u>	From-To	From-To	From-To
34-64	34-64	-	-	-
64-99	64-99	-	-	-
96-126	96-126	-	-	-
126-156	126-156	-	-	-
156-166	156-166	-	-	-
166-190	166-190	-	-	-
190-220	190-220	-	-	-
220-250	220-250	-	-	-
250-280	250-280	-	-	-
280-311	280-311	-	-	-
311-342	311-342	-	-	-
342-372	342-372	-	-	-
-	MISSING	-	-	-
-	432-463	-	-	-
-	463-493	-	-	-
-	493-520	-	-	-
-	-	-	-	-
-	-	-	-	-

no. 1

ROP: NEWPORT NEWS GAS CO. #2  
 MP: LAYNE-ATLANTIC  
 COUNTY: WARWICK  
 VDMR WELL NO: 0174  
 FROM: TO:

VDMR WELL NO. 0174 (Same as 0173)  
 Sample Interval 325-1080  
 Total Depth ? (58)  
 Oil \_\_\_ Gas \_\_\_ Water  Exploratory \_\_\_  
 Cuttings  Core \_\_\_ Other \_\_\_

See Circular 3 p. 71

From-To UNWASHED SAMPLE	From-To	From-To	From-To FLOAT REJECTED	From-To
	595'	786-800		595'
335'	605'?	818-828	325'	605'
345'	614'	849-	345'	614'
365'	624'	858-872	365'	624'
385'	634'	908-	385'	634'
395'	644'	939-	395'	644'
403-410	654'	948-	403-410	654'
415'	664'	954-	415'	664'
425'	674'	964-	425'	674'
433-436	685'	989-	433-436	685'
505'	695'	1065-	505'	695'
515'	705'	-	515'	705'
525'	717'	-	525'	717'
535'	727'	-	535'	727'
545'	737'	-	545'	737'
555'	746'	-	545'	746'
566'	756'	-	555'	756'
576'	765'	-	566'	765'
586'	778'	-	575'	778'
			586'	786-800



OWNER: Newport News Gas Co. VDMR # 0173  
DRILLER: Layne Atlantic WWCN # ~~1758~~  
COUNTY: Warwick Depth: 1082'

SAMPLE EXAMINATION  
(washed)

MIOCENE

45-100 Clay, tan, very sandy, calcareous, soft, with shell fragments

100-135 Sand, fine grained, subangular, slightly glauconitic, very argillaceous, with shell fragments.

135-156 Clay, gray brown, marly, slightly glauconitic, abundant shell fragments

156-166 Shell bed with abundant quartz

166-190 Sand, very fine grained, tan, calcareous, abundant shell fragments

190-280 Clay, gray, marly, sandy. Trace limestone, gray, dense 220'-230'

280-373 Clay, brown-pink, sandy, noncalcareous. Abundant shell fragments. Foraminifera 340'-350'

373-430 No sample

430-460 Sand, fine to coarse grained, rounded, glauconitic minor shell fragments

460-490 Sand, glauconite and quartz, minor shell fragments

490-520 Sand fine to coarse grained, subangular to rounded, glauconitic, with foraminifera and shell fragments

GEOLOGIC SUMMARY

Miocene	Chesapeake Group	? to 400'
Eocene	Chickahominy Fm	400+ to T. D.

VIRGINIA DIVISION OF MINERAL RESOURCES  
William Dudley, Geologist  
September 1958

Newport News Gas Company  
(Warwick County)

- 372-401 Fine gray quartz sand containing \_\_\_% glauconite; fish bones common.
- 401-432 Large shiny rounded quartz grains; containing 10% glauconite most of which is black. Two pyrite grains in large sample.
- 432-462 About the same but slightly more pyrite.
- 463-493 Sample is dark and contains about 50% glauconite; glauconite is light and dark green. Four pyritic glauconitic inter-growths noted.
- 493-520 Quartz grains with 10 or 15% glauconite, most of which is dark. Rock fragments common, cement and many quartz grains along with glauconite. Sixteen bright pyrite grains noted in rather small sample, a very few inter-grown with glauconite.
- 520-551 Quartz grains containing from 25 to 30% light and dark glauconite. Fifty-two small grains of bright yellow pyrite in a small sample. Pyritized stems.
- 551-581 Much the same but glauconite ranges to 50% and the sample is more highly pyritic, if anything.
- 581-613 About the same as above but most of the glauconite is light green.
- 616-647 Sample is feldspathic and contains 10 to 15% of light green glauconite. A few bright pyrite grains are present. Green quartz noted.
- 647-678 Same but contains more discolored quartz grains. Still slightly pyritic.
- 678-708 Same but pyrite vanishing.

OWNER: Newport News Gas Co.  
DRILLER: Layne-Atlantic Co.  
COUNTY: Warwick

VDMR: #173  
WWCR: #~~158~~  
DEPTH: 1082 (?)

#### SAMPLE EXAMINATION

- 372-401 Fine gray quartz sand containing glauconite; fish bones common.
- 401-432 Large shiny rounded quartz grains; containing 10% glauconite most of which is black. Two pyrite grains in large sample.
- 432-462 About the same but slightly more pyrite.
- 463-493 Sample is dark and contains about 50% glauconite; glauconite is light and dark green. Four pyritic glauconitic intergrowths noted.
- 493-520 Quartz grains with 10 or 15% glauconite, most of which is dark. Rock fragments common, cement and many quartz grains along with glauconite. Sixteen bright pyrite grains noted in rather small sample, a very few inter-grown with glauconite.
- 520-551 Quartz grains containing from 25 to 30% light and dark glauconite. Fifty-two small grains of bright yellow pyrite in a small sample. Pyritized stems.
- 551-581 Much the same but glauconite ranges to 50% and the sample is more highly pyritic, if anything.
- 581-613 About the same as above but most of the glauconite is light green.
- 616-647 Sample is feldspathic and contains 10 to 15% of light green glauconite. A few bright pyrite grains are present. Green quartz noted.
- 647-678 Same but contains more discolored quartz grains. Still slightly pyritic.
- 678-708 Same but pyrite vanishing.

#### REMARKS

Logged by Cederstrom Ref. p. 71 & 72 VGS Circ. 3

OWNER: Newport News Gas Co.  
DRILLER: Layne Atlantic  
COUNTY: Warwick

VDMR # 0174  
WWCR # ~~1758~~  
Depth: 1082'

SAMPLE EXAMINATION  
(washed)

	MIOCENE	CHESAPEAKE GROUP
325-410	Clay, gray-brown, soft, sandy with shell fragments	
	EOCENE	CHICKAHOMINY FM.
410-425	Sand, fine to coarse grained, subangular, slightly glauconitic with shell fragments and abundant clay	
425-435	No Sample	
435- ?	Sand and gravel with abundant clay	
435-500	No sample	
	PALEOCENE-UPPER CRETACEOUS (7)	MATTAPONI FM
500-615	Clay, gray, marly, glauconitic, sandy to gravelly with shell fragments minor pink clay at base	
615-645	Sand, quartz and glauconite, with abundant clay as above	
645-755	Clay, gray, glauconitic, sandy, becoming gray to brown and brown pink at base with shell fragments	
755-765	Sand, fine to coarse grained, subangular with shell fragments and abundant clay	
765-780	Clay, pink brown, glauconitic, sandy, soft with shell fragments	
780-786	No sample	
786-800	Sand, fine grained to gravel size with shell fragments & abundant clay	
800-818	No sample	
818-828	As above, very slightly glauconitic	

828-845	No sample
845-850	Sand, gravel and clay
850-857	No sample
857-873	Sand, gravel and clay
873-900	No sample
900-908	Sand, gravel and clay
908-936	No sample
936-965	Sand, gravel and clay, slightly glauconitic. Few shell fragments
965-980	No sample
980-990	Sand, medium to coarse grained, subangular, clean, arkosic
990-1060	No sample
1060-1065	Sand, fine to coarse grained, subangular, dirty

#### GEOLOGIC SUMMARY

Miocene	Chesapeake Gp.	? - 410
Eocene	Chickahominy Fm.	410-503
Paleo-Cret	Mattaponi Fm.	503-T.D.

VIRGINIA DIVISION OF MINERAL RESOURCES  
William Dudley  
September 1958

VDMR Well No. 0174

Warwick County

Prop: Newport News Gas Co.

Contractor: Layne Atlantic

<u>Interval</u>	<u>Description</u>
325-410	MILOCENE clay, gray-brown, soft, sandy with shell fragments CHESAPEAKE GROUP
410-425	EOCENE sand, fine to coarse grained, subangular, slightly glauconitic with shell fragments and abundant clay CHICKAHOMINY FM.
425-435	no sample
435- ?	sand and gravel with abundant clay
435-500	no sample
500-615	PALEOCENE-UPPER CRETACEOUS (?) clay, gray, marly, glauconitic, sandy to gravelly with shell fragments minor pink clay at base MATTAPONI FM
615-645	sand, quartz and glauconite, with abundant clay as above
645-755	clay, gray, glauconitic, sandy, becoming gray to brown and brown pink at base with shell fragments
755-765	sand, fine to coarse grained, subangular with shell fragments and abundant clay
765-780	clay, pink brown, glauconitic, sandy, soft with shell fragments
780-786	no sample
786-800	sand, fine grained to gravel size with shell fragments & abundant clay
800-818	no sample
818-828	as above, very slightly glauconitic
828-845	no sample
845-850	sand, gravel and clay
850-857	no sample
857-873	sand gravel and clay
873-900	no sample
900-908	sand gravel and clay

Well No. 0174

908-936 no sample  
936-965 sand gravel and clay, slightly glauconitic. Few shell fragments  
965-980 no sample  
980-990 sand, medium to coarse grained, subangular, clean, arkosic  
990-1060 no sample  
1060-1065 sand, fine to coarse grained, subangular, dirty

Miocene  
Eocene  
Paleo-Cret

SUMMARY  
Chesapeake Gp.  
Chickahominy Fm.  
Mattaponi Fm.

? - 410  
410-503  
503-T.D.