WWCR 162

INTERVAL SHEET

Both with the second second second

Page 1 of 1VDMR Well No: 1506Date rec'd: 2/25/66Sample Interval: from 0 to 171PROP: Allied Chemicals Corp.Number of samples: 16COMP: (Fibers Div.)
Mitchell's Pump & Well Co.Total Depth: 171COUNTY:Chesterfield (Hopewell)Oil or Gas: Water: XExploratory:

From-To		-To	From-To	From-To	From-To
0	-	10		_	_
10	_	20			-
20	_	20		_	_
20	2	10	_	_	_
30	_	40	_	-	
40		50			
50	-	60	-	-	_
60	-	70	-	-	-
70	-	80	-	-	-
00	-	00	-	-	-
00	-	90	-	-	-
90		100			
100	-	110	-	-	-
110	-	120	-	-	-
120	-	130	-	-	-
130	-	140	-	-	-
140	-	150	-	-	-
150		171			523
	_		_		_
	_		_		
	_		-	_	-
	-		_	-	
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	-		-	-	-
	-		-	-	-

All intervals have both washed and unwashed samples.

GEOLOGIC LOG

Columbia Group (0-20^t)

0-10 Clay — reddish-brown, very sandy; sand fine- to mediumgrained, moderately sorted, angular to subangular; moderate amount of soft, weathered mica (muscovite and Fe-Mg micas); scattered intensely weathered rock fragments; hornblende, magnetite, and earthy hydrous iron oxides present.

10-20 less clay and more sand; feldspar present.

Pamunkey Group (20-30')

20-30 Sand — gray, very argillaceous, small amount limestone and quartz gravel (up to 10 mm); fine- to very-coarse-grained, rather poorly sorted, variably rounded; 10-15% glauconite, about 5% potassic feldspar, abundant grains of glauconitic limestone sand, and relatively abundant hornblende fragments (all unweathered); traces of muscovite and phosphorite; some pelecypod fragments, echinoid spines, and fish teeth; abundant foraminifers and ostracods.

Potomac Group (30-171')

- 30-40 Sand buff, argillaceous, 5-10% granules and small pebbles; coarse- to very-coarse-grained, fairly well sorted, subangular to subrounded; very arkosic (fresh potassic feldspar); traces of garnet, mica, glauconite, and carbonaceous fragments.
- 40-50 medium- to very-coarse-grained, less gravel, no glauconite.
- 50-60 "
- 60-70 ''
- 70-80 ''
- 80-90 Sand buff, very slightly silty and argillaceous, about 10% fine gravel, mostly granules; coarse- to very-coarse-grained, fairly well sorted, subangular to subrounded; arkosic in both sand and gravel fractions (fresh, white potassic feldspar); traces of garnet and plant fragments.
- 90-100 argillaceous, finer grained, more poorly sorted.

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100-110	Sand — gray, very argillaceous, about 5% granules and small pebbles; medium- to very-coarse-grained, rather poorly sorted and rounded; arkosic (fresh potassic feldspar); traces of epidote and muscovite.	
110-120	Sand — gray, very argillaceous, 10-15% granules and small pebbles; medium- to very-coarse-grained, rather well sorted (skewed fine), poorly rounded; arkosic: small amounts muscovite and pink garnet.	
120-130	п	
130-140 Sand — light-gray, very argillaceous; medium- to very- grained, fairly well sorted, subangular to subrounded; a traces of muscovite, garnet, tourmaline, and brown epic		
140-150	coarser, with about 10% small pebbles.	
150-171	Sand — buff, clean, about 10% fine, well-sorted poorly rounded gravel (2-5 mm); coarse- to very-coarse-grained, fairly well sorted, poorly rounded; arkosic; iron staining common.	

GEOLOGIC SUMMARY

ROCK UNIT

0-20	Columbia Group	Pliocene-Pleistocene
20-30	Pamunkey Group	Eocene
30-171	Potomac Group	Lower Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke, Geologist March 25, 1966

AGE

#1506