INTERVAL SHEET

WWCR 150

Page 1			VDMR WELL NO	. Well No. 118	5
11/23/64			Sample Inter	rval: from 0	to183
PROP: A. M. Hamlet			Total Depth_	183	
COMP: Mitchell's W	& P Co.		OilGas_	Water_X	Exploratory
COUNTY: Prince Ge	orge		Cuttings X	CoreOth	ner
VDMR WELL NO:	W-1185				
From-To	From-To	From	m-To	From-To	From-To
_	0 - 10		_	-	_
_	10 - 20		_	_	-
-	20 - 30		_	-	_
-	30 - 40				_~
-	40 - 50		_ No wa	shed samples	-
_	50 - 60		_	_	
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) -	70 - 80		_	-	<u>-</u>
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	90 100				b
_	100 -110		_	_	
-	110 -120		=	_	_
	120 -130		_	_	-
-	130 -140		-	-	_
-	140 - 150		-	-	-
	140 150				
_	150 -160 No	sample	_	-	_
	160 - 170	-		-	,
-	170 - 183		-	-	7=
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OWNER: A. M. Hamlet

DRILLER: Mitchell's Well & Pump Company

COUNTY: Prince George

VDMR #1185 WWCR #150 TOTAL DEPTH: 1831

GEOLOGIC LOG

Columbia Group (0-30^t)

0-10	Clay - yellow, sandy (poorly-sorted and poorly-rounded			
	quartz), ferruginous (limonitic), some plant material.			

10-20	Clay - red, very sandy, dominantly red, but variegated,
	sand very fine to very coarse grained, poorly sorted,
	angular to subangular, small amount granules, quartz weak,
	irregular shape, has highly weathered aspect, abundant
	coarse muscovite, carbonaceous flecks, epidote, tourmaline,
	small amounts plant material.

20-30	Clay - yellow, very sandy, clay essentially yellow,
	ferruginous (limonitic), sand poorly sorted, subangular,
	small amount of small, poorly-rounded gravel, quartz
	weak, irregular, has highly weathered aspect, abundant
	muscovite, arkosic (abundant, highly-decomposed
	microcline), moderate amount of earthy iron oxides grains,
	trace of epidote, trace of plant material.

Chesapeake Group (30-1831)

30-40	Sand - orangeish yellow, very argillaceous, sand very fine to very coarse grained, poorly sorted, subangular to subrounded, moderate amount small, subangular gravel,
	clay essentially orangeish brown, but somewhat variegated, moderate amount muscovite, <u>arkosic</u> (abundant, highly decomposed, white and pink feldspar), ferruginous, trace of epidote, trace of carbonaceous material.
40-50	Clay - bluish-gray, slightly silty and sandy, minor

50-60	Clay - greenish-gray, sandy, considerable amount of
	glauconitic clay, and a few glauconite pellets, trace of
	tourmaline, very fossiliferous, small amount of coarse
	shell material, varied fossil assemblage includes
	pelecypods, echinoid spines, foraminifera, ostrocods,
	gastropods, oysters, worm borings, scaphopods, corals,
	some phosphatic shell material.

muscovite, limonite, carbonaceous flecks.

60-70

Clay - brown, very coherent, sandy, clay predominantly reddish-brown but pale green clay abundant, sand coarse to very coarse grained and subangular, small amount of small, subangular to subrounded gravel.

70-80

Clay - brown and green, very coherent, sandy, sand coarse to very coarse grained, subangular to subrounded, moderate amount small gravel, moderately arkosic (feldspar is gray and white orthoclase, fresh, and slightly more rounded than the quartz), ferruginous.

80-90

Clay - greenish-gray, coherent, moderately sandy.

90-100

Sand - gray, argillaceous, moderate amount small gravel (up to 5 mm), sand very fine to very coarse grained, poorly sorted, angular to subangular, slightly arkosic, slightly glauconitic (most of glauconite occurs as clay binder for groups of sand grains), small amounts of garnet, muscovite, and limonitic clay, and phosphate, very abundant abraded shell fragments (pelecypods, colonial corals, echinoid spines).

100-110

Sand - gray, medium to very coarse grained, fairly well sorted, angular to subangular, very slightly argillaceous, small amount small gravel (up to 10 mm), arkosic, (fresh, gray feldspar, better rounded than quartz), some orange quartz, small amounts of glauconitic clay, phosphate (nodules and plates), muscovite, and garnet, trace of copper-iron sulfide minerals, small amount abraded shell material.

110-120

As above.

120-130

Sand - gray, medium to very coarse grained, fairly well sorted, angular to subangular, moderately argillaceous, small amount small gravel, arkosic (fresh, gray feldspar, better rounded than quartz), some orange quartz, small amounts of muscovite and garnet.

130-140

As above.

140-150

Sand - gray, coarse to very coarse grained, fairly well sorted, angular to subrounded, slightly argillaceous, moderate amount small, subangular gravel, arkosic (fresh, gray feldspar), small amounts muscovite and garnet.

OWNER: A. M. Hamlet (Continued)

#1185

150-160

No sample.

160-170

Sand - gray, medium to very coarse grained, rather poorly sorted, angular to subangular, slightly silty and argillaceous, small amount subangular granules and very small pebbles, slightly arkosic, small amounts of glauconite (clay and scattered pellets), phosphate, muscovite, and garnet, very abundant, abraded, shell fragments (pelecypods and echinoid spines recognized).

170-183

Sand - gray, with pinkish cast, fine to very coarse grained, poorly sorted, angular to subangular, slightly silty and argillaceous, abundant fine grained, purplish red, subangular rock fragment and dark gray to black, fine grained rock fragments, small amounts feldspar muscovite and garnet.

GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

0-30 30-183 Columbia group Chesapeake group Quaternary Miocene

Virginia Division of Mineral Resources Robert H. Teifke, Geologist December 16, 1964

TIME ROCK UNIT

150-160

No sample.

160-170

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170-183

Sand - gray, with pinkish cast, fine to very coarse grained, poorly sorted, angular to subangular, slightly silty and argillaceous, abundant fine grained, purplish red, subangular rock fragment and dark gray to black, fine grained rock fragments, small amounts feldspar muscovite and garnet.

GEOLOGIC SUMMARY

ROCK UNIT

Columbia group Quaternary
Chesapeake group Miocene

0-30 30-183

> Virginia Division of Mineral Resources Robert H. Teifke, Geologist December 16, 1964