INTERVAL SHEET WWCR: 74

Pa l of l VDMR Well No: 2194

Date rec'd: 6/3/68 Sample Interval: from 0 to: 300'

PROP: Southern Materials (Ferncliff Plant) Number of samples: 20

COMP: Sydnor Hydrodynamics, Inc. Total Depth: 3001

COUNTY: Louisa (Ferncliff) Oil or Gas: Water: XExploratory:

	Fro	om-T	Co		Fro	m-To)	Fro	m-T	0		F	rom	-To	
	0 15	-	15 30			-			-				-		
	30	-	45			_			-				-		
	45	_	60			-			-				_		
	60		75			-			-				-		
	75		90			-			-				-		
	90		.05			-			-				-		
	105	-]	.20			_			-				-		
	120	- 1	35			-			-				_		
	135	- 1	.50			-			-				_		
	150	- 1	.65			-			-				-		
	165	- 1	.80			-			-				-		
	180	- 1	95			-			-				_ '		
	195	- 2				-			_				-		
	210					-			-				-		
	225	- 2	40			_			_				_		
	240					_			-				_		
	255	- 2				_			-				_		
	270	- 2				<u>.</u> .		*:					_		
	285	- 3				-			_				_		
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		_				_			-				_		

All intervals have both washed and unwashed samples

OWNER: Southern Material (Ferncliff Plant)

DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Louisa (Ferncliff)

VDMR: 2194 WWCR: 74

TOTAL DEPTH: 300'

GEOLOGIC LOG

Depth in feet		
0-15	Saprolite — brown; c stained phylli	lay and weathered and iron-oxide- te
15-30	ų u	tan
30-45		lite — tannish-gray, slightly weathered, ricite, and quartz, with minor amounts feldspar
45-60	п	
60-75	11	
75-90		brown; considerable amount of iron- oxide staining
90-105	Н	gray; un-weathered; trace of pyrite
105-120	Quartz — white; vein sericite schis	quartz with minor amounts of quartz-
120-135		y, aphanitic, slightly micaceous, istose; quartz, sericite, biotite, and e
135-150	11	
150-165	11	
165-180	slightly crent	 dark brownish-gray, phyllitic, llated, foliated; biotite, quartz, nd trace of feldspar
180-195	П	
195-210		ne-grained to aphanitic, sheared, ceous; quartz, biotite, sericite, and par
210-225		light gray; some fragments of sericite- quartz schist

OWNER:	Southern Material (Ferncliff Plant)	#2194
225-240	Phyllite — purplish-gray, aphanitic, for quartz, sericite, biotite, and f	
240-255	Micaceous quartzite — gray, aphanitic foliated; quartz, sericite, bioti feldspar	-
255-270	ш	
270-285	***	
285-300	Quartz-sericite phyllite — purplish-gr foliated, schistose; quartz, ser and feldspar	-
	GEOLOGIC SUMM	IARY
	ROCK UNIT	AGE
0-30 ^t 30-300 ^t	Saprolite Metamorphosed sedimentary rocks	Early Paleozoic (?)

Virginia Division of Mineral Resources Robert G. Willson, Geologist July 17, 1968

VPMR-2194 WWCR- 74

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS: Box 3667

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

COMPLETION REPORT OFFICE ADDRESS: McCormick Road Charlottesville, Virginia

OWNER: Southern Material	Mailing Address: PO Box 1-J, Richmond, Va.
TENANT: Southern Material - Ferncliff Plant	Mailing Address:
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address 1305 Brook Rd., Richmond, Va.
WELL LOCATION: County Louisa M.S. Highway A Route 250 and 50	Approx. 1 Sext northeast (direction) of feet northwest (direction) of Rt. 659
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 4-17-68	DATE COMPLETED: 4-29-68
TYPE OF DRILL RIG USED: Mir Rotary	TOTAL DEPTH 300 feet
WATER LEVEL: Stands 20 feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: Method Submersible	HOLE SIZE: 11 inches from 0 to 64 feet
Drawdown 129 feet	61 inches from 64 to 300 feet
Rategal. per min.	inches fromtofeet
Duration 9 hrs., 0 min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: from 77 to 78 feet	inches fromtofeet
from 147 to 147½ feet	inches fromtofeet
fromfeet	CASE SIZE: 7 inches from +11611 to 64 feet
WATER: Color Clear Toste OK	inches fromtofeet
Odor <u>None</u> Temp•F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Gravity
FarmTownSchool	Material <u>Cement & water</u> Depth 64 feet
IndustryXOther	PUMP: Type
WATER ANALYSIS AVAILABLE YesNo_X_	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes X No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT I OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
REMARKS: 20 TIMPES	

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 4-29-68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS			
FROM	то	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.)			
0 15 62 66 77 78 89	1 15 62 66 77 78 89	Top soil Red clay Rotten granite and boulders Slate Weathered rock Weathered rock Weathered rock				
09 147 147 <u>1</u>	147 147 <u>1</u> 300	Gray slate Water zone Gray slate				
			e e			