

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2718
C-400

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Union Bag Camp Paper Co., Well #18 Mailing Address: Franklin, Va.

TENANT: _____ Mailing Address: _____

DRILLER: Layne Atlantic Mailing Address: Norfolk, Va.

WELL LOCATION: County Southampton Approx. _____ feet _____ miles _____ (direction) of _____

_____ and _____ feet _____ miles _____ (direction) of _____

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: May 2, 1969 DATE COMPLETED: June 16, 1969

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 832 feet
completed at 810

WATER LEVEL: Stands 140 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____

Drawdown 55' 11" feet

Rate 1400 gal. per min.

Duration _____ hrs., _____ min.

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes _____ No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: Armco screens.

HOLE SIZE: 20 inches from 0 to 370 feet

12 inches from 370 to 810 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 12 inches from 375 to 445 feet

12 inches from 545 to 595 feet

12 inches from 685 to 765 feet

12 inches from 800 to 805 feet

CASE SIZE: 20 inches from 0 to 370 feet

12 inches from 330 to 375 feet

12 inches from 445 to 545 feet

12 inches from 595 to 685 feet

12 inches from 765 to 800 feet

GROUTING: Me 12 d _____ 805 810

400

Material cement (bags) Depth 0 to 370 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake 195' 11" feet

(LOG OF WELL) OVER

LOG

FURNISHED BY: _____

DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	67	No sample	
67	75	Clay	
75	140	Sand and clay	
140	145	Rock and black pepper sand	
145	210	Clay, sand and shell	
210	215	Sand	
215	255	Hard multicolored clay	
255	320	Coarse sand	
320	370	Sand and clay	
370	450	Sand	
450	500	Hard clay	
500	540	Sand	
540	555	Clay	
555	620	Sand	
620	630	Clay and sand	
630	770	Sand and clay	
770	800	Hard clay	
800	832	Sand and clay	

(Use additional forms if necessary)

VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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Well Repository No: C-400
 W-2718

Date rec'd: 12-29-69 Date Processed:

Sample Interval: from: 70 to: 830

PROPERTY: Union Camp Co. #18

Number of samples: 76

COMPANY: Layne Atlantic

Total Depth: 832'

COUNTY: Southampton (Franklin)

Oil or Gas: Water ~~xx~~ Exploratory:

From-To	From-To	From-To	From-To
-	270-280	520-530	770-780
NO	280-290	530-540	780-790
SAMPLE	290-300	540-550	790-800
-	300-310	550-560	800-810
-	310-320	560-570	810-820
70-80	320-330	570-580	820-830
80-90	330-340	580-590	-
90-100	340-350	590-600	-
100-110	350-360	600-610	-
110-120	360-370	610-620	-
120-130	370-380	620-630	-
130-140	380-390	630-640	-
140-150	390-400	640-650	-
150-160	400-410	650-660	-
160-170	410-420	660-670	-
170-180	420-430	670-680	-
180-190	430-440	680-690	-
190-200	440-450	690-700	-
200-210	450-460	700-710	-
210-220	460-470	710-720	-
220-230	470-480	720-730	-
230-240	480-490	730-740	-
240-250	490-500	740-750	-
250-260	500-510	750-760	-
260-270	510-520	760-770	-

All intervals have both washed & unwashed samples.

Owner: Union Bag Camp Paper Co. #18 W# 2718
Driller: Layne Atlantic C# 400
County: Southampton Total Depth 832'
Quad:

Depth WELL LOG
(feet)

- 0-68 No sample.
- 68-78 Clay - light olive gray (5Y 6/1); slight silt, abundant sand; very fine to medium, sub-angular; moderate sorting; quartz; 1% glauconite; 10% shell fragments; pelecypod & gastropod - (Turritella); forams (Robulus); wood bits.
- 78-88 Clay - as above, except: gastropod - T. Variabilis; 30% shell fragments; 5% glauconite; echinoderm spines; "glassy" nodules; 5% iron oxide; forams (Robulus; Textularia).
- 88-99 Clay - as above, except: moderate silt; medium-grained, some coarse; fewer "iron" nodules; ostracods, forams (Textularia 2 sp.).
- 99-110 Clay - as above, except: 10% iron and glassy nodules; yellow, clear; brown with white frothy crust; 20% shell fragments.
- 110-120 Clay - as above; except: sand 50% quartz; 50% glauconite, light and dark green; 20% shell fragments; few "iron" and "glassy" nodules.
- 120-130 Clay - light olive gray (5Y 6/1); some clay in clasts; moderate silt, abundant sand, of glauconite-quartz mixture; fine-grained sub-angular to sub-rounded quartz; moderate sorting; 65% glauconite of light & dark granules; 10% shell fragments; wood bits; bone; "glassy" fragments; forams - (Nonion, Textularia).
- 130-140 Clay - greenish gray (5GY 6/1); some clay in clasts, moderate silt; abundant sand of glauconite-quartz mixture; fine-grained, sub-angular quartz; moderate sorting; 50% glauconite; quartz; 20% shell fragments; forams (Nonion); few wood bits; few "iron-glassy" nodules.
- 140-150 Clay - as above, except: foram - (Textularia); garnet chips.
- 150-159 Clay - as above, except: fine- to coarse-grained quartz; poorly sorted; 30% shell fragments, of larger size; foram (Nodosaria, Robulus).
- 159-169 Clay - light olive gray (5Y 6/1); some clay in clasts, slight sand; very fine- to medium-grained; sub-angular quartz; moderately well sorted; quartz; 40% glauconite; sparse shell fragments; shark teeth; few "iron-glassy" nodules.

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Depth
(feet)

- 169-179 Clay - light olive gray (5Y 6/1); clay in clasts, sparse sand; fine- to medium-grained; sub-angular; well-sorted; quartz; 15% glauconite; few shell fragments; muscovite mica.
- 180-190 Clay - as above, except: sand - sparse to moderate, medium- to coarse-grained; poorly sorted; 25% glauconite; wood bits; mica.
- 190-200 Clay - as above, except: moderate sand, very fine- to medium-grained; well sorted; few granules quartz and iron; 12% glauconite; 3% muscovite mica; few shell fragments.
- 200-210 Clay - as above, except: some sand in clasts; medium-grained with some very coarse; 8% glauconite; some shell fragments.
- 210-220 Clay - as above, except: no sand clasts; very fine- to medium-grained; poorly sorted; 15% glauconite; 3% shells; forams (Nonion); 5% iron; some wood bits; garnet chips; 1%+ muscovite mica.
- 220-230 Clay - moderate yellowish brown (10YR 5/4); clay in clasts, moderate sand; also in clasts; medium-grained, some coarse, sub-angular; moderately sorted; quartz; 15% glauconite; 5% iron; 1%+ muscovite mica; wood chips; some shell fragments.
- 230-240 Clay - light olive gray (5Y 6/1); clay in clasts, slight silt; moderate sand; medium, with some very coarse-grained, sub-angular; moderately well sorted; quartz; 10% glauconite; 10% shell fragments; 1%+ muscovite mica; wood bits; garnet chips; some iron.
- 240-250 Clay - as above, except: no clay clasts; moderate sand, fine- to very coarse-grained; 5% glauconite; no shell fragments; 3% muscovite mica.
- 250-260 Sand - light olive gray (5Y 6/1); moderate clay in clasts; slight silt; very coarse-grained & some very fine; sub-angular to sub-rounded; well sorted; quartz; sparse glauconite; mica; shell fragments.
- 260-270 Sand - light olive gray (5Y 6/1); sparse clay in clasts; very sparse silt; very coarse-grained, sub-angular, well sorted; quartz; very sparse glauconite.
- 270-280 Sand - as above, except: some pebbles; medium to very coarse.
- 281-291 Sand - light olive gray (5Y 6/1); moderate clay in clasts; moderate silt; coarse to very coarse; sub-angular; moderately well sorted; quartz; very sparse glauconite; mica.

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(feet)

283-293 Sand - as above, except: abundant clay - loose & in clasts; fine-ground sand; well sorted.

291-312 Sand - as above, except: slight clay in clasts; very coarse-grained to granule size sand; well sorted.

312-322 Sand - as above, except: very sparse glauconite & mica; poorly sorted.

322-332 Sand - as above, except: moderate clay in clasts; very sparse shell fragments.

332-341 Sand - as above, except: abundant clay clasts; slight silt; medium to very coarse; sub-angular; poorly sorted; quartz; 1% glauconite; some muscovite.

341-351 Sand - as above, except: few shell fragments; wood bits.

351-361 Sand - as above, except: medium grained; well sorted; some granules; 1% glauconite; minor muscovite; wood bits.

361-373 Sand - as above, except: medium to very coarse; poorly sorted; 3% glauconite.

373-383 Sand - as above.

383-393 No sample.

393-404 Sand - as above, except: medium-grained; well sorted sand; some muscovite mica.

404-414 Sand and Clay (color as above) - abundant clay, some in clasts; moderate silt; sand, medium to very coarse; sub-angular; moderately sorted; quartz; some granules; minor mica and glauconite.

414-424 Sand - as above, except: garnets chips; iron.

424-435 Sand - as above, except: 4% glauconite; shell fragments.

435-445 Sand - as above, except: slight clay, minor clasts.

445-455 Sand - as above, except: no glauconite, shell or mica; wood bits present.

455-466 Sand and Clay - as above, except: abundant clay in clasts; 5% glauconite; 1% muscovite mica.

466-476 Sand - light olive gray (5Y 5/2); moderate clay, few clasts; slight silt; very fine to very coarse; sub-angular; some granules, poorly sorted; quartz; 5% glauconite; some mica; garnet chips; few shell fragments.

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(feet)

- 476-496 Sand - as above, except: slight clay, some clasts; 7% glauconite; some shell fragments.
- 497-507 Sand & Clay - color as above; abundant clay in clasts; abundant sand; very fine to very coarse; sub-angular; few granules; poorly sorted; quartz; 1% glauconite; few shell fragments.
- 507-517 Clay - light olive gray (5Y 6/1); clay in clasts; slight silt; abundant sand; fine- to very coarse-grained; sub-angular; few granules; poorly sorted; quartz; 1% glauconite; some muscovite mica.
- 517-527 Clay - as above, except: coarse grained; well sorted; few shell fragments.
- 527-537 Sand and Clay - as above, except: abundant clay, and sand, fine- to very coarse-grained; poorly sorted.
- 537-547 Clay - color as above; abundant clay in clasts; slight silt; abundant sand; fine to very coarse; sub-angular; poorly sorted; few granules; quartz; 2% glauconite; muscovite mica; shell bits.
- 547-552 Clay - as above.
- 552-558 Clay - as above.
- 558-570 Clay - as above, except: coarse to granule grains; minor glauconite.
- 570-580 Sand and Clay - (color as above); abundant clay, some in clasts; moderate silt; coarse, sub-angular; well sorted; quartz; few glauconite; muscovite mica.
- 580-589 Sand and clay - as above.
- 589-599 Sand, with clay - (color as above); abundant clay, some in clasts; medium to granule; sub-angular; moderately sorted; quartz; few glauconite; few mica.
- 599-609 Sand - as above.
- 609-618 Sand - as above; moderate clay, some clasts.
- 619-629 Clay - color as above; clay in clasts; moderate sand; medium to granule size grains, sub-angular; some pebbles; poorly sorted; quartz.

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(feet)

- 629-639 Clay - yellowish gray (5Y 8/1); clay in clasts; moderate sand; medium to very coarse, sub-angular; some granules and pebbles; poorly sorted; quartz.
- 639-647 Clay - as above, except: few grains glauconite and muscovite mica.
- 647-649 Sand - yellowish gray (5Y 8/1); abundant clay in clasts; medium to very coarse, sub-angular; some granules; poorly sorted; quartz; shell fragments.
- 649-659 Sand - as above, except: coarse; well-sorted; no shell bits.
- 659-669 Sand - as above.
- 669-679 Sand - as above, except abundant clay.
- 679-689 Clay - yellowish gray (5Y 8/1); clay in clasts; abundant sand; medium to very coarse, sub-angular; moderately sorted; quartz; few shell fragments; muscovite.
- 689-699 Sand - as above, except: abundant clay in large clasts; pebbles.
- 699-710 Sand - as above; no pebbles.
- 710-720 Sand - as above.
- 720-730 Sand - as above.
- 730-740 Sand - as above; moderate to abundant clay in clasts.
- 740-750 Sand - as above, except: coarse- to very coarse-grained.
- 750-760 Sand - as above.
- 760-771 Sand - as above.
- 771-781 Sand - as above; fine to very coarse.
- 781-791 Sand - as above; shell fragments, pelecypod (Unio); few mica.
- 791-802 Sand & clay - as above, except: clay of 799'; medium to very coarse; few pebbles; few shell fragments.

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(feet)

- 802-816 Sand - pale yellowish brown (10YR 6/2); moderate clay in clasts, coarse to very coarse, sub-angular to sub-rounded; 10% granules, some pebbles; poorly sorted; quartz.
- 816-826 Gravel - 50% coarse sand; 50% pebbles; some clay.
- 802-833 Clay - moderate yellowish brown (10YR 5/4); slight sand; 50% coarse grained; 50% pebbles; sub-angular to sub-rounded; poorly sorted; quartz.
- 826-833 Clay - pale yellowish brown (10YR 6/2); as above.

Logged by: J. K. Polzin