

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4233  
C- 404

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. #16 Mailing Address: Franklin, Virginia

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: Eayne Atlantic Co. Mailing Address: Norfolk, Virginia

WELL LOCATION: County Southampton Approx. \_\_\_\_\_ feet miles \_\_\_\_\_ (direction) of \_\_\_\_\_  
Franklin 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: November 18, 1968 DATE COMPLETED: January 8, 1969

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 844 feet  
completed at 800'

WATER LEVEL: Stands 133'4" feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method \_\_\_\_\_  
Drawdown 41'8" feet  
Rate 1520 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

HOLE SIZE: 20 inches from 0 to 355 feet  
12 inches from 355 to 844 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\*SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 20 inches from 0 to 355 feet  
12 inches from 320 to 800 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

GROUTING: Method \_\_\_\_\_  
Material cement Depth 320 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry X Other \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_

DRILL CUTTINGS SAVED: Yes X 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: \*Screens - 12" - 360-430; 540-580; 660-730; 745-760; 782-792.

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

INTERVAL SHEET

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Well Repository No.: W- 4233  
 C- 404

Date rec'd: 7/18/74 Date Processed: 7/25/75

Sample Interval: from 0 to: 829

PROPERTY: Union Bag Camp Corp. #16

Number of samples: 99

COMPANY: Layne Atlantic

Total Depth: 844'

COUNTY: Southampton (Franklin)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
9-10	324-334	522-523	751-761	-
19-20	334-345	527-537	761-771	-
22-23	345-355	537-547	771-780	-
25-27	355-365	547-557	780-790	-
29-31	365-375	557-567	790-800	-
34-36	375-385	567-577	802-812	-
79-81	385-395	577-587	812-822	-
90-100	395-405	587-592	822-829	-
100-105	405-413	592-597	829- X	-
105-110	413-420	597-602	-	-
119-121	421-429	602-607	-	-
128-130	429-435	607-612	-	-
130-140	435-438	612-618	-	-
140-150	440-450	618- X	-	-
150-160	450-455	619-628	-	-
161-166	455-458	623-628	-	-
166-168	458-460	628-633	-	-
185-192	460-462	633-638	-	-
192-202	464-466	638-643	-	-
202-212	466-468	643-648	-	-
212-223	470-471	648- X	-	-
223-233	475-476	648-658	-	-
233-243	480-481	658-668	-	-
243-253	485-486	668-679	-	-
248-252	490-495	679-689	-	-
252-262	499-501	689-700	-	-
262-272	502-506	700-710	-	-
272-282	507-511	710-730	-	-
283-314	512-516	730-740	-	-
314-324	517-521	741-751	-	-

All intervals have both washed and unwashed sample.

OWNER: Union Bag Corp.  
Union Camp #16  
DRILLER: Layne Atlantic '68  
COUNTY: Southampton

W# 4233  
C# 404  
Total Depth: 829'  
Quad:  
Elev:

Depth  
(feet)

WELL LOG

0-9	No Sample.
9-10	Clay - Light olive gray (5y 6/1); moderate sand; medium to very coarse, sub-angular, poor sorting; Quartz.
10-19	No Sample.
19-20	Clay - As Above, Except: wood fragments.
20-22	No Sample.
22-23	Clay - Light olive gray (5y 5/2); As Above, Except: 15% shell fragments; Echinoderm spines.
23-25	No Sample.
25-27	Clay - As Above, Except: medium grained, moderately sorted; 1% Glauconite; Pelecypod, <u>Glycimeris</u> .
27-29	No Sample.
29-31	Clay - As Above, Except: Pelecypod, <u>Astarte</u> ; Limonite-Ochre.
31-34	No Sample.
34-36	Clay - As Above.
36-40	No Sample.
40-43	Sand - Light olive gray (5y 5/2); slight clay, in clasts; slight silt; fine to very coarse, sub-angular, moderate sorting; Quartz; 20% shell fragments; 20% wood fragments; rare glauconite.
43-79	No Sample.
79-81	Clay - Light olive gray (5y 6/1); slight silt; slight sand; medium to coarse, sub-angular, poor sorting; quartz; sparse shell and wood fragments.
81-90	No Sample.

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C# 404  
Total Depth: 829'

<u>Depth (feet)</u>	
90-100	Clay - As Above, Except: 15% Glauconite; 10% shell fragments; shark teeth; wood fragments.
100-105	Clay - As Above, Except: 10% wood fragments.
105-110	Sand - Dark greenish gray (5GY 4/1); abundant clay, some in clasts; slight silt; <del>abundant sand; glauconite</del> fine to coarse grain, sub-angular, some granules, poorly sorted; 40% glauconite; Quartz; 7% shell fragments; 1% wood fragments.
119-121	Clay and Sand - As Above, Except: 5% shell fragments; rare wood fragments.
121-128	No Sample.
128-130	Clay and Sand - As Above, Except: Forams, <u>Nodosarius</u> ; 3% shell fragments.
130-140	Clay - Olive gray (5y 4/1); slight sand; coarse, sub-angular, poor sorting; Quartz; 3% Glauconite; 3% Muscovite; 1% shell fragments; Bryozoa; wood.
140-150	Clay - Light olive gray (5y 5/2); very sparse sand; very fine to fine, sub-angular, few granules, sorting not apparent; Quartz; Glauconite (1%+); Muscovite; shell fragments.
150-160	Clay - As Above.
160-166	Clay - As Above, Except: 5% shell fragments; some wood; 1% Muscovite.
166-168	Clay - As Above, Except: 3% Glauconite; shark teeth.
168-185	No Sample.
185-192	Clay - As Above, Except: very sparse Glauconite; shell fragments; wood; <del>and</del> mica.
192-202	Clay - As Above.
202-212	Clay - As Above.
212-223	Clay - As Above.

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Total Depth: 829'

Depth  
(feet)

223-233 Clay - Dark yellowish brown (10yr 4/2); few grains sand; coarse, sub-angular; Quartz; very sparse Glauconite; shell fragments; wood.

233-243 Clay - Light olive gray (5y 6/1); slight sand; coarse, sub-angular; Quartz; 2% Glauconite; 1% Muscovite; wood.

243-248 No Sample.

248-252 Clay - Color as above; slight silt; abundant sand; very coarse, sub-angular, moderate sorting; quartz; 1% glauconite; 1% muscovite; wood.

252-262 Sand - Dark yellowish brown (10yr 4/2); very slight clay in clasts; slight silt; very coarse, sub-angular, well sorted; Quartz; wood; iron; Pelecypod, Ostrea.

262-273 Sand - As Above, Except: very coarse to granules; Pelecypod, Venericardia.

272-282 Sand - As Above.

283-314 Sand - As Above, Except: coarse to granules, moderately sorted.

314-324 Sand - As Above, except: medium to coarse grained; no wood.

324-334 Sand - As Above, Except: coarse to granule.

334-345 Sand - As Above, Except: medium to coarse.

345-355 Sand - As Above, Except: No clay; some sand in clasts; coarse to granule.

355-365 Sand - As Above, Except: slight clay; abundant silt; rare black glauconite; mica.

365-375 Sand - As Above.

375-385 Sand - As Above, Except: medium to very coarse, granules; 1% glauconite, black.

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W# 4233  
C# 404  
Total Depth: 829'

<u>Depth</u> <u>(feet)</u>	
385-395	Sand - As Above, Except: feldspar.
395-405	Sand - As Above.
405-413	Sand - As Above, Except: moderate clay in clasts.
413-420	Sand - As Above, Except: medium to coarse grained, some very coarse, granules.
421-429	Sand - As Above, Except: sparse clay in clasts; shell fragments.
429-435	Sand - As Above.
435-438	Sand - Color As Above; abundant clay; slight silt; coarse to very coarse, sub-angular to sub-rounded, granules, moderately sorted; Quartz; 3% wood fragments; muscovite; ochre; shell fragments; feldspar; iron; some glauconite.
440-450	Sand - As Above, Except: Pelecypod, <u>Astarte</u> ; 1% wood, 1% shell fragments.
450-455	Sand - As Above, Except: slight clay; few clasts; 3% shell fragments.
455-458	Sand - As Above, Except: chert; 3% shell fragments; 1% wood.
458-460	Sand - As Above, Except: slight clay; silt; no clasts; few shell fragments; mica and wood.
460-462	Sand - As Above, Except: slight reddish clay in clasts; moderate silt.
462-464	No Sample.
464-465	Sand - As Above, Except: moderate clay in large clasts; 1% shell fragments, 1% wood, phosphatized bone/shell.
466-468	Sand - As Above, Except: abundant clay; large clasts; <del>sand</del> very coarse grained, sub-angular to sub-rounded, few granules, well sorted; Quartz; 3% shell fragments; some wood; some mica; some feldspar.

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W# 4233  
C# 404  
Total Depth: 829'

<u>Depth</u> <u>(feet)</u>	
468-470	No Sample.
470-471	Sand - Pale yellowish brown (10yr 6/2); abundant clay, <del>some</del> <sup>some</sup> in clasts; medium to very coarse, moderate sorting; Quartz; 3% Glauconite; 1% shell fragments; some mica; some feldspar; few wood.
471-475	No Sample.
475-476	Sand - As Above, Except: moderate clay, in clasts; poorly sorted.
476-480	No Sample.
480-481	Sand - As Above, Except: slight clay in clasts; sparse shells, wood, mica, and glauconite.
481-485	No Sample.
485-486	Sand - As Above.
486-490	No Sample.
490-495	Sand - As Above.
495-499	No Sample.
499-501	Sand - As Above, Except: 1% shell fragments, 2% wood; some mica; garnet chips; sparse glauconite.
502-506	Sand - As Above, Except: abundant clay, some in clasts.
507-511	Sand - As Above, Except: some granules; sparse shell and wood.
512-516	Sand - As Above, Except: moderate clay, <del>and</del> <sup>some</sup> in clasts.
517-521	Sand - As Above, Except: abundant clay, few clasts; sparse shell fragments and wood.
522-523	Sand - As Above, except: moderate clay, few clasts.
523-527	No Sample.

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Total Depth: 829'

Depth  
(feet)

527-537 Clay - Yellowish gray (5y 7/2); sparce sand; medium to coarse, sub-angular, few granules, poor sorting; quartz; sparse mica.

537-547 Clay - As Above.

547-557 Sand - Color As Above; slight clay; very coarse to granule, sub-angular, well sorted; Quartz.

557-567 Sand - As Above, Except: rare phosphated bone/shell; mica; wood; leaf fragments.

567-577 Sand - As Above, Except: slight silt; rare feldspar.

577-587 Sand - As Above, Except: medium to very coarse.

587-592 Sand - As Above, Except: medium to granule, poorly sorted.

592-597 Sand - As Above.

597-602 Sand - As Above, Except: sparse clay in clasts.

602-607 Sand - As Above, Except: coarse to very coarse, well sorted; garnet chips; saprolitic feldspar.

607-612 Sand - As Above, Except: 10% Granules, moderate sorting.

612-618 Sand - As Above, Except: medium to coarse, some granules, well sorted.

618 ? Sand - As Above, Except: abundant clay, some clasts, light gray.

618-623 Sand - As Above.

623-628 Sand - As Above, Except: no clay; sand clasts; no granules.

628-633 Sand - As Above, Except: coarse-grained, very well sorted.

633-638 Sand - As Above.

638-643 Sand - As Above.

643-648 Sand - As Above.

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W# 4233  
C# 404  
Total Depth: 829'

<u>Depth</u> <u>(feet)</u>	
648	Sand - As Above, Except: moderate clay in clasts; coarse to very coarse; some granules; rare glauconite.
648-658	Sand - As Above, Except: no clay; fine to very coarse; poorly sorted; shell fragments; magnetite.
658-668	Sand - Dusky yellow (5y 6/4); light gray clay clasts; sand clasts; medium grained, sub-angular; well sorted; quartz; garnet chips.
668-679	Sand - As Above.
679-689	Sand - As Above, Except: few small clay clasts; some sand clasts; coarse-grained; well sorted.
689-700	Sand - As Above, Except: very coarse; no clasts.
700-710	Sand - As Above, Except: coarse
710-730	Sand - As Above, Except: few very small clay "pellets"; coarse to very coarse; wood.
730-740	Sand - Pale yellowish brown (10yr 6/2); slight silt; granule size, sub-rounded; well sorted; Quartz; leaf and wood.
740-751	No Sample.
751-761	Sand - As Above, Except: coarse to granule size; 7% leaf and wood fragments.
761-771	Sand - As Above, Except: very small clay "pellets"; poor sorting; rare leaf and wood fragments; muscovite; feldspar.
771-780	Sand - Dusky yellow (5y 6/4); some sand in clasts; medium to granule, sub-angular to sub-rounded; some granules; poorly sorted; Quartz; sparse wood.
780-790	Sand - As Above, Except: few small clay clasts - reds, yellow.
790-802	Sand - As Above, Except: sparse clay in minute "pellets"; 1% wood magnetite.

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Depth  
(feet)

802-812 Sand - As Above, Except: coarse and granule, moderate sorting; few glauconite grains.

812-822 Sand - As Above, Except: clay in small different colored pellets; medium to granule size, sub-angular to sub-rounded, poorly sorted; Quartz; some rose Quartz; Garnet.

822-829 Sand - As Above, Except: no clays.

Logged by: J. K. Polzin

*March 1980*