

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4581
C-218

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Union Camp Corp. #6A Mailing Address: Franklin 23851

TENANT: _____ Mailing Address: _____

DRILLER: Layne Atlantic Company Mailing Address: P.O. Box 7095, Norfolk, VA 23509

WELL LOCATION: County Isle of Wight Approx. 1 ~~xxxx~~ miles S (direction) of
Str. 617 and 500 ~~xxxx~~ feet W (direction) of Str. 618

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

DATE STARTED: 1/21/75 DATE COMPLETED: 4/8/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 831 feet

WATER LEVEL: Stands 176 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Turbine Pump HOLE SIZE: 24 inches from 0 to 400 feet
Drawdown 92 feet 19 inches from 400 to 805 feet
Rate 2100 gal. per min. See Remarks
Duration 8 hrs., _____ min. _____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet
SCREEN SIZE: 12 inches from 406 to 465 feet
12 488 518
12 inches from 560 to 570 feet
12 608 628
12 inches from 664 to 704 feet
12 760 800

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F
CASE SIZE: 20 inches from 0 to 400 feet
12 355 805
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry XX Other _____
GROUTING: Method _____
Material _____ Depth 400 feet

WATER ANALYSIS AVAILABLE: Yes _____ No XX
PUMP: Type Turbine
Capacity 2100 gal per min
DRILL CUTTINGS SAVED: Yes XX No _____
Depth of intake 318 feet

(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: Electric Log Ran

Replaces Well #6 (info by DMR 6-2-75)

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	1	Top soil	Hole underreamed 32" at all screen settings
1	8	Yellow sand med.	
8	20	Gray sand, med. fine	
20	34	Yellow brown sand med. fine	
34	54	Blue sandy clay	
54	68	Blue sandy clay	
68	88	Fine sand same hard streaks	
88	98	Sand and shell	
98	104	Clay, hard dark sand streaks	
104	109	Black hard shell	
109	115	Shell and coarse sand	
115	135	Coarse dark pepper sand and shell, hard	
135	178	Coarse gray sand and shell, hard	
178	220	Clay, dark med. hard	
220	240	Clay, dark med. hard, slow drilling	
240	260	Clay, dark hard streaks, some shell, slow drilling	
260	300	clay, dark hard, slow drilling	
300	314	Clay, dark brownish hard, slow drilling	
314	324	Sand, coarse	
324	344	Sand and clay	
344	364	Clay, brownish hard and some sand	
364	444	Sand, coarse	
444	533	Sand, coarse with thin hard streaks	
533	573	Coarse sand, some clay	
573	595	Sand with hard layers like shell	
595	615	Sand, coarse	
615	631	Sand, med. coarse	
631	673	Clay, very slow drilling	
673	693	Clay and sand	
693	713	Coarse sand, thin clay streaks	
713	733	Coarse sand, light	
733	743	Clay, white and brown, very slow drilling	
743	783	Coarse gray sand	
783	818	Very coarse sand	
818	831	Clay, light	

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: C-218 W-4581
 Date rec'd: 5/26/76 Date Processed: 2/1/77 Sample Interval: from:0 to: 831
 PROPERTY: Union Camp Corp. #6A Number of samples: 47
 COMPANY: Layne Atlantic Co. Total Depth: 831'
 COUNTY: Isle of Wight (Franklin) Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
0-1	-	504-513	-
1-8	260-280	-	743-763
8-20	-	513-533	-
20-34	280-300	-	763-783
34-54	-	533-553	-
54-68	300-314	553-573	783-818
-	314-324	-	-
68-88	324-344	-	818-831
-	-	-	-
88-98	-	595-615	-
98-104	344-364	615-631	-
104-109	-	-	-
109-115	364-384	-	-
115-135	-	-	-
135-155	384-404	631-653	-
155-178	404-424	653-673	-
-	-	-	-
178-199	424-444	-	-
-	-	-	-
-	-	673-693	-
199-220	444-464	693-713	-
-	-	-	-
220-240	464-484	713-733	-
-	-	-	-
240-260	484-504	733-743	-

Washed and unwashed samples

Owner: Union Camp Corp. #6A
Driller: Layne Atlantic
County: Isle of Wight (Franklin)

W# 4581
C# 218
Total Depth: 831'
Quad: Franklin
Elev: 22'

Depth
(Feet)

WELL LOG

0-8 No Sample.

8-20 Sand - brownish gray (5YR 5/1); sparse clay; medium to coarse, subangular, well sorted; jawbone; 1-3% fine phosphatic/bone fragments.

20-34 Sand - yellowish orange (10YR 5/6); medium to very coarse, subangular, moderate sorting; 3% fine phosphate fragments.

34-54 Sand - pinkish gray (5YR 8/1); medium to coarse, subangular, well sorted; 5% fine phosphatic fragments.

54-68 Sand - pale grayish orange (10YR 6/4); medium, subangular, well sorted; 8% fine phosphate fragments.

68-88 Sand - light olive gray (5Y 6/1); abundant clay in clasts; fine to very coarse with some pebble sized fragments, subangular, poorly sorted; wood and plant debris in clay clasts; tooth and bone fragments; 1%+ glauconite.

88-98 Sand - light olive gray (5Y 6/1); sparse clay; fine and very coarse, subangular, poorly sorted; 8% phosphate-bone fragments; teeth.

98-104 Sand - light olive gray (5Y 6/1); fine to very coarse, subangular, well sorted; 5% phosphate/bone fragments; rose quartz.

104-115 Sand - light and dark gray; 60% glauconite; medium to very coarse, subangular, moderate sorting; 5% shell fragments.

115-135 Sand, Glauconitic - dusky green (10G 3/2); 95% glauconite; medium to very coarse, subangular, few grains.

135-155 Sand, Glauconitic - light and dark gray; 50% glauconite; medium to very coarse, subangular, poor sorting; very rare shell fragments; bone fragments; 1% pink and red garnet; feldspar; iron oxide.

155-178 Sand, Glauconitic - light and dark green; 80% glauconite; 20% finely broken coquina limestone with few grains glauconite/sand embedded and few loose quartz grains; medium to very coarse, subangular; garnet.

Owner: Union Camp Corp. #6A

W# 4581

C# 218

Depth
(feet)

- 178-220 Sand, Glauconitic - light and dark green; 50%+ glauconite and small limestone fragments with glauconite; medium to very coarse, subangular, moderate sorting; few shell fragments not of coquina; forams - Nonion; ostracods; bone fragments, tooth; feldspar; garnet; mica at 199-220.
- 220-280 Sand - olive gray (5Y 4/1); abundant clay with moderate at 260-280; fine to coarse, very coarse at 260-280; well sorted at 220-240 and rest moderate; 10% glauconite; rare shell fragments; tooth - 220-240; coquina fragments; mica.
- 280-300 Sand - moderate olive gray (5Y 5/1); moderate clay; fine to granule, subangular, poorly sorted; 8% glauconite; 5% shell fragments; vertebra; mica.
- 300-314 Sand - olive gray (5Y 4/1); abundant clay; fine to very coarse, subangular, moderate sorting; 1-3% glauconite; 5% shell fragments; ostracod; mica.
- 314-324 Sand - light olive gray (5Y 6/1); very sparse clay in sand clasts; medium to very coarse, subangular, moderate sorting; 1% glauconite; 1% shell fragments; mica.
- 324-344 Gravel - pale yellowish brown (10YR 6/2); moderate reddish clay; abundant glauconitic limestone fragments; fine to pebble, subangular and rounded, poor sorting; rare shell fragments; phosphate nodules.
- 344-364 Sand - light olive gray (5Y 6/1); medium to small granule, subangular and angular, moderate sorting; rose quartz; feldspar; garnet; fuschite.
- 364-384 Gravel - pale yellowish brown (10YR 6/2); moderate reddish clay; sparse glauconitic limestone fragments; fine to granule with few small pebbles, subangular and rounded, poor sorting; rare shell fragments; Gryphaea; mica.
- 384-464 Sand - light olive gray (5Y 6/1); fine to granule, with granules decreasing in percentage as depth increases, subangular and some angular, poor sorting; feldspar; garnet - 1% at 424-446.
- 464-513 Sand - light olive gray (5Y 6/1); fine to granule - 25%+ granules at 464-504, then 3% granules, subangular, and angular, poorly sorted; feldspar; garnet.

Owner: Union Camp Corp. #6A

W# 4581

C# 218

Depth
(feet)

- 513-533 Gravel - mixed colors; moderate clay - brownish; 30% pebbles - rounded and broken fragments; fine to coarse with few very coarse, subangular, poor sorting; feldspar; garnet.
- 533-631 Sand - light olive gray (5Y 6/1); sparse clay with moderate at 553-573; fine to granule, subangular and some angular, poor sorting; sparse feldspar and garnet.
- 631-653 Sand - pale yellowish brown (10YR 6/2); abundant clay; fine to very coarse, subangular, poor sorting; feldspar; garnet.
- 653-673 Sand - pale yellowish brown (10YR 7/2); abundant clay; fine to very coarse with more fine to medium grains, subangular, moderately well sorted; abundant feldspar.
- 673-733 Sand - yellowish gray (5Y 7/2); very fine to granule, subangular, moderately well sorted and moderate at 713-733; feldspar; garnet; very sparse small clay clasts at 713-733.
- 733-743 Sand - grayish orange (10YR 6/4); abundant clay; fine to very coarse with some larger grains, angular and subangular, moderate sorting.
- 743-783 Sand - yellowish gray (5Y 7/2); medium to very coarse, subangular, well sorted; iron oxide and stains; rose quartz; feldspar and garnet rare.
- 783-818 Sand - yellowish gray (5Y 7/2); fine to large granule, subangular, moderate sorting; sparse iron oxide; rose quartz and feldspar rare.
- 818-831 Gravel - mixed colors; very fine to pebble, subangular and rounded, poor sorting; rose quartz; feldspar; iron oxide stains; (minute amount usual contamination).

Logged by: J. K. Polzin
October 22/23, 1980