

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 3681  
C# 153

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: Haynie Products, Inc. Mailing Address: P. O. Box 175, Reedville, Va. 23539

TENANT: Well #2 Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 27186, Rich., Va., 23261

WELL LOCATION: County Northumberland Approx. 200 <sup>feet</sup>/<sub>mi/ys</sub> South (direction) of  
End of Route 659 and 200 <sup>feet</sup>/<sub>mi/ys</sub> West (direction) of 659

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

DATE STARTED: 7/10/72 DATE COMPLETED: 8/31/72

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 809 feet

WATER LEVEL: Stands 22 2/3 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Turbine pump

Drawdown 32 feet

Rate 503 gal. per min.

Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

WATER ZONES: from 685 to 710 feet

from 740 to 780 feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry  Other \_\_\_\_\_

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

66 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: Electric Log Ran by driller - not available.

HOLE SIZE: 17 inches from 0 to 50 feet

15 inches from 50 to 800 feet

9-7/8 inches from 800 to 809 feet

SCREEN SIZE: 6 inches from 685 to 710 feet

6 inches from 740 to 780 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 8 inches from +2 to 350 feet

6 inches from 350 to 685 feet

710 740

6 inches from 780 to 785 feet

GROUTING: Method Pressure

Water & Cement

Material \_\_\_\_\_ Depth 70 feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal per min

Depth of intake \_\_\_\_\_ feet

## LOG

FURNISHED BY: SYDNOR HYDRODYNAMICS, INC.

DATE: 8/21/72

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	5	Fill Dirt	
5	20	Streaks of Gray Clay, yellow sand and gravel.	
20	30	Gray Sand-Shells	
30	40	Blue Clay, Shells and Sand	
40	50	Gray Clay, Shells	
50	60	Gray Clay	
60	70	Gray Clay, Shells	
70	100	Shells, Blue Clay	
100	140	Gray Clay, Shells and fine sand	
140	150	Clay and shells	
150	160	Hard Clay, Sand, Shells	
160	180	Shells, Clay	
180	220	Hard Green Clay and shells	
220	240	Green Clay, Trace of Shells	
240	280	Green Clay	
280	380	Green Clay-Trace of Shells	
380	400	Coarse Sand, Gravel and Shells	
400	420	Sand, Gravel, Streaks of Clay	
420	440	Coarse Sand, Clay and shells	
440	450	Hard Green Clay	
450	468	Green Clay, Streaks of Sand	
468	470	Shell Rock	
470	490	Green, White Clay, Black Sand & Shells	
490	510	Clay, Sand, Gravel & Trace of Shells	
510	520	Black sand, clay & shells	
520	530	Black Sand, Clay	
530	540	Hard Green Clay	
540	580	Hard Black Sand, Shells and Clay	
580	590	Black Sand, Clay, Shells	
590	610	Hard Black sand, shells & some clay	
610	630	Hard Black Sand, Gray & white clay	
630	648	Green, white and brown clay	
648	660	Hard Black sand Clay	
660	680	Gray Black sand-Streaks of Clay	
680	720	Gray, Black Sand	
720	730	Sand, Some Clay	
730	775	Sand, Gray Shells and clay	
775	776	Shell Rock	
776	785	Sand streaks of Clay	
785	790	Sand, some shells	
790	809	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.: W- 3681  
 C- 153

Date rec'd: 9/18/72 Date Processed: 3/10/73

Sample Interval: from 0 to: 650

PROPERTY: Haynie Products #2

Number of samples: 66

COMPANY: Sydnor

Total Depth: 809'

COUNTY: Northumberland

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-5	290-300	590-600	-	-
5-10	300-310	600-610	-	-
10-20	310-320	610-620	-	-
20-30	320-330	620-630	-	-
30-40	330-340	630-640	-	-
40-50	340-350	640-650	-	-
50-60	350-360	-	-	-
60-70	360-370	-	-	-
70-80	370-380	-	-	-
80-90	380-390	-	-	-
90-100	390-400	-	-	-
100-110	400-410	-	-	-
110-120	410-420	-	-	-
120-130	420-430	-	-	-
130-140	430-440	-	-	-
140-150	440-450	-	-	-
150-160	450-460	-	-	-
160-170	460-470	-	-	-
170-180	470-480	-	-	-
180-190	480-490	-	-	-
190-200	490-500	-	-	-
200-210	500-510	-	-	-
210-220	510-520	-	-	-
220-230	520-530	-	-	-
230-240	530-540	-	-	-
240-250	540-550	-	-	-
250-260	550-560	-	-	-
260-270	560-570	-	-	-
270-280	570-580	-	-	-
280-290	580-590	-	-	-

All intervals have both washed & unwashed samples.

Owner: Haynie Products #2  
Driller: Sydnor  
County: Northumberland

W# 3681  
C# 153  
Total Depth: 809'  
Quad: Reedville  
Elev: 5'

Depth  
(feet)

WELL LOG

- 0-5 Sand - Grayish orange (10yr 7/4); medium with some larger particles, subangular, well sorted; 1 quartz pebble.
- 5-10 Sand - Grayish orange (10yr 7/4) medium, some larger grains, subangular, well sorted; 3% phosphate.
- 10-20 Sand - Light dusky yellow (5y 5/4); medium to very coarse, some granules, subangular, moderate sorting; iron oxide fragments.
- 20-30 Sand - Light olive gray (5y 5/2); coarse, some larger grains, subangular, well sorted; 5% phosphate fragments; 30% shell fragments; Ostracods; iron oxide fragment; garnet.
- 30-40 Sand - Light olive gray (5y 5/2); moderate clay, in various colors; coarse with some larger grains, subangular, poor sorting; 3% phosphate fragments; 20% shell fragments; iron staining.
- 40-50 Clay - Moderate yellow brown (10yr 5/2); abundant sand; medium to granule, subangular to subrounded, poorly sorted; 30% shell fragments; iron staining; fine mica.
- 50-60 Sand - Moderate yellow brown (10yr 5/2); abundant clay in pellet form; medium to granule, subangular and subrounded, poorly sorted; 3% shell fragments; iron staining; fine mica.
- 60-70 Sand - Light and dark brown; moderately abundant clay; medium to granule, subangular and subrounded, poorly sorted; 20% phosphatic fragments/glaucanite; 20% shell fragments; iron staining; magnetite; globules.
- 70-90 Gravel, Shell - Light and dark brown; 60% shell fragments; medium, subangular, well sorted; 5% glauconite, phosphatic fragments; 80-90'; 80% fine phosphatic fragments; iron staining.
- 90-120 Gravel, Shell - Light olive gray (5y 6/1); 50% shell fragments; medium, subangular, well sorted; 15% fine phosphate fragments and glauconite; 90-100' 10% fragments; 110-120' iron fragments- magnetite and iron oxide.

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C# 153  
Total Depth: 809'  
Quad: Reedville  
Elev: 5'

<u>Depth (feet)</u>	
120-130	Sand - Light olive gray; (5y 6/1); medium, subangular, well sorted; 20% glauconite/phosphate fragments; 30% shell fragments.
130-140	Sand - Light olive gray (5y 6/1); medium, subangular, well sorted; 30% glauconite/phosphate fragments; 10% shell fragments.
140-150	Sand - Light olive gray (5y 6/1); sparse clay; medium, subangular, well sorted; 10% glauconite; 10% shell fragments; bone fragments; iron oxide.
150-160	Sand - Light olive gray (5y 6/1); sparse clay; medium to granule, subangular, well sorted; 30% glauconite; 15% shell fragments.
160-170	Clay - Light olive gray (5y 6/1); abundant sand; medium to pebble, subangular to rounded, moderate sorting; 10% glauconite; 15% shell fragments.
170-200	Gravel - Light olive gray (5y 6/1); abundant clay; medium to pebbles, <del>(10% pebbles)</del> subangular to rounded, moderate sorting; 10% glauconite; 15% shell fragments; 180-190' large pebbles.
200-210	Sand - Light olive gray (5y 5/1); abundant clay; fine to granule, subangular, moderate sorting; glauconite; 8% shell fragments; claw.
210-220	Sand - Light olive gray (5y 5/1); abundant clay; medium, subangular, well sorted; 1% glauconite; 1% shell fragments; Forams- <u>Nonionella</u> , <u>Eponides</u> , <u>Nonion</u> , <u>Uvigerina</u> ; Mica.
220-240	Clay - Light olive gray (5y 6/1); abundant sand; medium, subangular, well sorted; 1% phosphate fragments/glauconite; 220-240' 1% shell fragments, no glauconite; <del>clay</del> Forams- <u>Nonionella</u> , <u>Textularia</u> , <u>Pyrulina</u> .
240-250	Sand - Light olive gray (5y 5/1); 50% shell fragments; abundant clay; medium, subangular, well sorted; 1% phosphate fragments; Forams- <u>Siphogenerina</u> , <u>Textularia</u> , <u>Nonion</u> , <u>Robulus</u> .
250-260	Sand - Light olive gray (5y 5/1); abundant clay; medium, subangular, well sorted; 8% phosphate fragments; 20% shell fragments; Forams.
260-270	Sand - Light olive gray (5y 5/1); moderately abundant clay; medium, subangular, well sorted; 8% phosphate fragments; 15% shell fragments; Forams.

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Haynie Products #2

W# 3681  
C# 153  
Total Depth: 809'  
Quad: Reedville  
Elev: 5'

Depth  
(feet)

- 270-300 Clay - Light olive gray (5y 5/1); sparse sand; medium, some larger grains, subangular, poorly sorted; very rare phosphate fragments; 3% shell fragments; ~~Diatoms; Forams~~, 280-290' ~~5%~~ shell fragments; 290-300' hard rock fragments; diatoms; forams.
- 300-310 Clay - Light olive gray (5y 5/1); abundant gravel; medium to 10% large granules, subangular, poorly sorted; rare phosphate fragments; 1% shell fragments; Echinoderm spines; Forams; Kyanite crystals; Magnetite.
- 310-350 Clay - Light olive gray (5y 5/1); ~~sparse sand~~ medium to granule with some pebbles at 340-350'; subangular, poorly sorted; Diatoms; Forams; 320-350' Very rare to 3% shell fragments; ~~sparse sand~~, 330-340' moderate sand; Ostracods; rock fragment 340-350' ~~moderate sand~~; iron oxide.
- 350-370 Clay - Light olive gray (5y 5/1); abundant gravel, medium to pebble, subangular, poorly sorted; rare shell fragments; Diatoms; Forams; iron oxide; 360-370' phosphate fragments.
- 370-380 Sand - Light olive gray (5y 5/1); abundant clay; medium to pebble, subangular, poorly sorted; very rare phosphate fragments; 1% shell fragments; Diatoms; Forams-Margetulina.
- 380-390 Sand - Light olive gray (5y 5/1); moderate clay; some medium, coarse to very coarse, subangular, poorly sorted; few phosphate fragments; 10% shell fragments; Forams.
- 390-410 Sand - Light olive gray (5y 5/1); very sparse clay; coarse to very coarse with some medium, subangular, poorly sorted; 5% phosphate fragments; 7% shell fragments; garnet.
- 410-440 Sand - Light olive gray (5y 5/1); very sparse clay; medium to pebbles, subangular, poorly sorted; 2% phosphate fragments; 15% and from 420' onward, 7% shell fragments; Forams; 430-440' hard rock fragments with Chalcopyrite, pyrite; mica schist; Whole Echinoderm.
- 440-460 Sand - Light olive gray (5y 6/1); very sparse to moderate clay in sand clasts; medium to very coarse, subangular, poorly sorted; 2% phosphate fragments; very rare shell fragments; Forams-Robulus; 450-460' Ostracods.
- 460-470 Sand, Glauconitic - Black and white; 50% glauconite; moderate clay; medium to very coarse, subangular, poor; rare shell fragments; Forams. sorting

Owner:  
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Haynie Products #2

W# 3681  
C# 153  
Total Depth: 809'  
Quad: Reedville  
Elev: 5'

Depth  
(feet)

- 470-480 Sand, Glauconitic - Black and white; 70% glauconite, black, medium grained; very sparse clay; limestone clasts with glauconite 10%; medium to pebble, subangular, poorly sorted; Forams.
- 480-520 Sand, Glauconitic - Black and white; 60% glauconite, black, medium grained; very sparse clay; medium to granule, some pebbles at 480', subangular, poorly sorted; limestone clasts with varying glauconite; 480-90' very rare shell fragments; Forams.
- 520-550 Sand, Glauconitic - Olive black (5y 2/1); 80% glauconite, black, medium; very sparse to sparse clay, reddish; sparse sand; medium to granule, subangular, poorly sorted; very rare shell fragments; Forams - Nodosaria, Robulus.
- 550-580 Sand, Glauconitic - Light and dark gray; 60% glauconite, black, medium to very coarse; moderate clay; ~~sparse sand~~ medium to granule, subangular, poorly sorted; very rare shell fragments; 550-560' Ostracods, Forams, shark tooth; granite ~~fragments~~ with pyrite, ~~fragments~~.
- 580-600 Sand, Glauconitic - Olive black (5y 2/1); 90% glauconite, black, medium to very coarse; sparse clay; ~~very sparse sand~~ medium to granule, subangular, poorly sorted; very rare ~~shell fragments~~ to 10% shell fragments (probably broken Coquina).
- 600-610 Sand, Glauconitic - Olive black (5y 2/1); 95% glauconite, black, medium; very sparse clay ~~and sand~~; medium to granule, subangular to rounded, no sorting; 25% Coquina ~~fragments~~.
- 610-620 Sand, Glauconite - Olive black (5y 2/1); 90% glauconite; sparse sand; medium to granule, subangular, poorly sorted; very rare shell fragments, ~~very rare coquina fragments~~.
- 620-630 Sand, Glauconitic - Olive black (5y 2/1); 80% glauconite; ~~sparse sand~~ medium to granule, subangular, poorly sorted; 8% shell fragment; Forams; ~~few Coquina clasts~~, shark tooth.
- 630-640 Clay - Moderate yellowish gray (5y 6/2); abundant sand; fine to coarse, subangular, poorly sorted; 7% glauconite; very rare shell fragments; Forams; iron oxide fragments.

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Total Depth: 809'  
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640-650 Sand, Glauconitic - Light and dark gray; 50% glauconite; very sparse clay in clasts with glauconite; fine to granule, sub<sup>o</sup> angular, poorly sorted; very rare shell fragments; Forams.

650-809 No Sample.

Logged by: J. K. Polzin  
August 18, 1980