

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3055
C- 88

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B- 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: United States Government Mailing Address: _____

TENANT: A. P. Hill Camp Well #2 Mailing Address: _____

DRILLER: Douglas & Dickinson, Inc. Mailing Address: Box 498- Warsaw, VA

WELL LOCATION: County Caroline Approx. ^{feet}/_{miles} (direction) of
north of Bowling Green 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: _____ DATE COMPLETED: August 4, 1969

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 500 feet
(Pilot hole to 525')

WATER LEVEL: Stands 114 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____
Drawdown 36 feet
Rate 40 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 8 inches from 0 to 480 feet
5 7/8 inches from 480 to 525 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 480 to 490 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 3 inches from 480 to 490 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

CASE SIZE: 6 inches from 0 to 480 feet
3 inches from 459 to 480 feet
3 inches from 490 to 500 feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other Army Camp

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

PUMP: Type _____
Capacity 40 gal. per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes 50 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: _____

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

INTERVAL SHEET

C-88

Page 1 of 1

Well Repository No: 3055

Date rec'd: 3/24/70 ; processed 1/14/71

Sample Interval; from 0 to: 525'

PROPERTY: Camp A. P. Hill #2

Number of samples: 50

COMPANY: Douglas & Dickinson

Total Depth: 525'

COUNTY: Caroline (Bowling Green)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 21	267 - 273	-	-
21 - 31	273 - 283	-	-
31 - 42	283 - 294	-	-
42 - 52	294 - 304	-	-
52 - 63	304 - 315	-	-
63 - 73	315 - 325	-	-
73 - 84	325 - 336	-	-
84 - 94	336 - 346	-	-
94 - 105	346 - 357	-	-
105 - 115	359 367	-	-
115 - 126	367 - 378	-	-
126 - 136	378 - 388	-	-
136 - 147	388 - 398	-	-
147 - 157	399 - 409	-	-
157 - 168	409 - 420	-	-
168 - 179	420 - 430	-	-
179 - 189	430 - 441	-	-
189 - 199	441 - 451	-	-
199 - 210	451 - 462	-	-
210 - 220	462 - 472	-	-
220 - 231	472 - 483	-	-
231 - 241	483 - 493	-	-
241 - 252	493 - 504	-	-
252 - 262	504 - 514	-	-

Unwashed only



Owner: Camp-A.P. Hill #2
Driller: Douglas & Dickinson
County: Caroline

W# 3055
C# 88
Total Depth 525'
Quad:

Depth
(feet)

WELL LOG

0-10	Sand - moderate yellowish brown (10YR 5/4); clay coated, fine to coarse; sub-angular; some very coarse; moderate sorting; quartz.
10-21	Sand - grayish orange (10YR 7/4); clay coated; fine to very coarse; poor sorting; glauconite; few phosphatic fragments; feldspar.
21-31 (pink clay)	Clay - Gravel - grayish orange (10YR 7/4); abundant clay in clasts, some of pale red (5R 6/2); abundant sand; fine to pebble; poor sorting.
31-41	Clay -Gravel - as above.
41-52	Clay - Gravel - as above, except: light olive gray (5Y 6/1) and above colored, clasts. Fine to granule.
52-63	Clay - light olive gray (5Y 6/1); some grayish orange color on clasts; fine grained sand; well sorted; quartz.
63-73	Clay - as above, except: abundant sand.
73-84	Clay - as above.
84-94	Clay - as above.
94-105	Clay - as above.
105-115	Clay - as above.
115-126	Clay - as above.
126-136	Clay - as above, except: phosphatic fragments.
136-147	Sand - olive gray (5Y 4/1); abundant clay; fine grained; well sorted; quartz; sand; 7% glauconite.
147-157	Sand - moderate olive gray (5Y 5/1); abundant clay; fine to medium; very sparse shell fragments; mica.
157-168	Clay - olive gray (5Y 5/1); fine grained clay in clasts; moderate sand; very fine to medium; sub-angular; well sorted; quartz; glauconite; shell fragments; mica.

Depth
(feet)

168-179 Clay - as above.

179-189 Clay - as above, except: forams - Robulus.

189-199 Clay - as above, except: abundant sand, fine to coarse.

199-210 Clay - as above.

210-220 Clay - as above, except: 10% shell fragments; forams; plant debris.

220-231 Clay - olive gray (5Y 3/2); abundant sand; 10%+ glauconite; forams; no shell bits.

231-241 Clay - olive gray (5Y 5/1); as above, except: 10% shell fragments; 7%+ glauconite.

241-252 Clay - as above, except: yellow clay in some clasts; 7% shell fragments.

252-262 Clay - as above, except: 5% shell fragments.

262-273 Clay - as above, except: 1% shell fragments.

273-283 Clay - as above.

283-294 Clay - as above; some very coarse sand grains.

294-304 Clay - as above.

304-315 Clay - as above.

315-325 Sand - light olive gray (5Y 6/2); sparse clay, medium to granule; sub-angular; moderate sorting; quartz.

325-336 Clay - pale yellowish brown (10YR 6/2); clasts of fine grained clay; abundant sand; fine to very coarse; some granules; poor sorting; quartz.

336-346 Sand - light olive gray (5Y 6/2); moderate clay in sand clasts; sand as above.

346-357 Sand - as above with minor glauconite.

357-367 Sand - as above.

Depth
(feet)

367-378 Clay - pale yellow brown (10YR 7/2); clay in various colored clasts; white; yellow; tan; sand - as above.

378-388 Clay - as above.

388-398 Clay - as above.

398-409 Clay - as above, with abundant sand; very fine to fine.

409-420 Clay - as above.

420-430 Clay - as above.

430-441 Clay - yellowish gray (5Y 7/2); clasts with tan streaks; abundant sand.

441-451 Sand - dark yellow brown (10YR 4/4); sparse clay in sand clasts; fine to very coarse; moderate sorted; quartz; wood.

451-462 Sand - pale yellow brown (10YR 7/2); abundant buff and tan clay clasts; sand - as above.

462-472 Sand - as above.

472-483 Sand - as above, except: moderate clay.

483-493 Sand - as above.

493-504 Sand - as above, except: abundant clay clasts and grains.

504-514 Sand - as above, except: moderate clay; very fine to very coarse.

514-525 Sand - as above, except: abundant clay.

Logged by: J. K. Polzin
July 1, 1980

OWNER: Camp A. P. Hill #2
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Caroline (Bowling Green)

VDMR # 3055
WWCR # 88
TOTAL DEPTH : 525'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-46	Columbia Group	Pleistocene
46-136 *	Calvert Formation	Middle Miocene
136-315 **	Nanjemoy and Mattaponi Formations	Middle Eocene - Paleocene
315-525	Mattaponi (?) and Patuxent Formations	Paleocene - Early Cretaceous

* P_2O_5 accumulation at very base of Calvert; immediately underlain by glauconitic sand.

** Nanjemoy - Mattaponi contact not determinable.

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
January 19, 1971