

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 2882

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

C#: 169
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

1050 Stoddard BLDG.

OWNER: American Central Corp.

Mailing Address: Lansing, Michigan 48933

TENANT: Stratford Harbors #3

Mailing Address:

Box 498

DRILLER: Douglas and Dickinson, Inc.

Mailing Address: Warsaw, VA

WELL LOCATION: County Westmoreland

Approx. 1 1/2 miles north - northeast (direction) of

Stratford P.O.

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: October 1969

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 653 feet

WATER LEVEL: Stands 120 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air

Drawdown 80 feet

Rate 100 gal. per min.

Duration _____ hrs., _____ min.

WATER ZONES: from 589 to 599 feet

from 599 to 609 feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision _____

WATER ANALYSIS AVAILABLE: Yes _____ No XX

DRILL CUTTINGS SAVED: 61 Yes XX 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: _____

HOLE SIZE: 8 inches from 0 to 311 feet

5 7/8 inches from 311 to 599 feet

_____ inches from 599 to 653 feet

SCREEN SIZE: 3 inches from 589 to 599 feet

2 1/2 inches from 599 to 609 feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 311 feet

3 inches from 311 to 589 feet

2 1/2 inches from 609 to 653 feet

GROUTING: Method _____

Material _____ Depth _____ feet

PUMP: Type _____

Capacity 6000 gal. per Hr. ~~min~~

Depth of intake 200 feet

(LOG OF WELL) OVER

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 2882
 C#: 169

Date rec'd: 3/24/70 Date Processed: 7/16/70

Sample Interval: from: to:
 0 653

PROPERTY: American Central Corp.
 (Stratford Harbor #3)

Number of samples: 61

COMPANY: Douglas and Dickinson

Total Depth: 653'

COUNTY: Westmoreland

Oil or Gas: Water: Exploratory:

| From-To | From-To | From-To | From-To |
|-----------|-----------|-----------|---------|
| 0 - 10 | 262 - 273 | 525 - 535 | - |
| 10 - 21 | 273 - 283 | 535 - 546 | - |
| 21 - 31 | 283 - 294 | 546 - 556 | - |
| 31 - 42 | 294 - 304 | 556 - 567 | - |
| 42 - 52 | 304 - 315 | 567 - 577 | - |
| 52 - 63 | 315 - 325 | 577 - 588 | - |
| 63 - 73 | 325 - 336 | 588 - 598 | - |
| 73 - 84 | 336 - 346 | 598 - 609 | - |
| 84 - 94 | 346 - 357 | 609 - 625 | - |
| 94 - 105 | 357 - 367 | 625 - 640 | - |
| 105 - 115 | 367 - 378 | 640 - 653 | - |
| 115 - 126 | 378 - 388 | - | - |
| 126 - 136 | 388 - 399 | - | - |
| 136 - 147 | 399 - 409 | - | - |
| 147 - 157 | 409 - 420 | - | - |
| 157 - 168 | 420 - 430 | - | - |
| 168 - 178 | 430 - 441 | - | - |
| 178 - 189 | 441 - 451 | - | - |
| 189 - 199 | 451 - 462 | - | - |
| 199 - 210 | 462 - 472 | - | - |
| 210 - 220 | 472 - 483 | - | - |
| 220 - 231 | 483 - 493 | - | - |
| 231 - 241 | 493 - 504 | - | - |
| 241 - 252 | 504 - 514 | - | - |
| 252 - 262 | 514 - 525 | - | - |

Unwashed only.

OWNER: American Central Corp.
(Stratford Harbor #3)
DRILLER: Douglas and Dickinson
COUNTY: Westmoreland

W#: 2882
C#: 169
TOTAL DEPTH: 653'
QUAD: Stratford Hall

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand -- dark yellowish orange; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 10 - 21 Sand -- dark yellowish orange; coarse to very coarse grained, some medium grains, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 21 - 31 Sand -- grayish orange; medium to very coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; glauconite.
- 31 - 42 As above except medium to coarse grained, some very coarse grains, few granules.
- 42 - 52 Clay and sand -- light olive gray, grayish orange; abundant clay; moderate sand; medium grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 52 - 63 As above except clay; abundant sand.
- 63 - 73 Sand -- light olive gray; medium grained, some coarse grains, some granules; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; few grains of feldspar; glauconite; few shell fragments.
- 73 - 84 Sand -- light olive gray; moderate clay; medium to coarse grained, some fine grains, few pebbles; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; some black phosphatic material; few grains of feldspar.
- 84 - 94 Clay -- olive light gray; moderate sand; fine grained, few granules; subangular to subrounded; well sorted; quartz; 15% shell fragments; some black phosphatic material; few diatoms.
- 94 - 105 As above except sand and clay; moderate clay; abundant sand; no diatoms.
- 105 - 115 Clay -- light olive gray; slightly silty; slightly sandy; very fine grained, few granules; subangular to subrounded; well sorted; quartz; 5% shell fragments; few black phosphatic fragments.
- 115 - 126 As above.
- 126 - 136 As above except few shell fragments.

Depth
(feet)

- 136 - 147 As above.
- 147 - 157 As above except olive light gray, light olive gray.
- 157 - 168 As above.
- 168 - 178 Clay -- olive light gray, light olive gray; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; glauconite.
- 178 - 189 Clay and sand -- light olive gray; 80% moderately stained grains; abundant clay; moderate sand; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; few shell fragments; glauconite; few black phosphatic fragments; bone fragment.
- 189 - 199 Clay and sand -- olive light gray, light olive gray; abundant clay; moderate sand; medium grained; subangular to subrounded; well sorted; quartz; some black phosphatic material; few shell fragments.
- 199 - 210 As above except sand; abundant clay; some glauconite; foram.
- 210 - 220 Sand -- olive light gray; abundant clay; medium grained; subangular to subrounded; well sorted; quartz; 3% shell fragments; some black phosphatic material; few grains of glauconite.
- 220 - 230 As above except moderate clay; 10% shell fragments; 2% black phosphatic material.
- 231 - 241 Sand -- salt and pepper; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; 10% glauconite; feldspar; few shell fragments.
- 241 - 252 As above except slightly clayey (clasts).
- 252 - 262 Sand -- olive light gray; abundant clay; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; glauconite, 5% of sand sized fraction; few shell fragments; few black phosphatic fragments.
- 262 - 273 Sand -- olive light gray; moderate clay; medium to coarse grained, some granules, few pebbles; subangular to rounded; moderately sorted; quartz; 30% glauconite; 5% shell fragments.
- 273 - 283 As above except 20% glauconite; few black phosphatic fragments; muscovite.
- 283 - 294 Sand -- olive light gray; slightly clayey; medium grained to granular, some pebbles; subangular to rounded; poorly sorted; quartz; 30% glauconite; 5% shell fragments; few black phosphatic fragments.

Depth
(feet)

- 294 - 304 Sand -- olive light gray; moderate clay; medium to coarse grained, 5% granules, some pebbles; subangular to rounded; moderately sorted; quartz; 25% glauconite; 15% sandy limestone and shell fragments; few flakes of muscovite.
- 304 - 315 Sand -- olive light gray; medium to coarse grained, some fine grains, some granules, few pebbles; subangular to rounded; quartz; 30% glauconite; 5% sandy limestone and shell fragments; few flakes of muscovite.
- 315 - 325 Sand -- olive light gray; moderate clay; medium to coarse grained, some granules; subrounded to rounded; moderately sorted; quartz; 35% glauconite; few flakes of muscovite.
- 325 - 336 As above except 50% glauconite.
- 336 - 346 As above except abundant clay.
- 346 - 357 As above except 60% glauconite.
- 357 - 367 Sand -- olive light gray; slightly clayey; coarse grained, few granules; rounded; well sorted; 75% glauconite; quartz.
- 367 - 378 As above except moderate clay; 65% glauconite.
- 378 - 388 Clay -- olive light gray; moderate sand; medium to coarse grained; subrounded to rounded; moderately well sorted; 50% glauconite; quartz; few grains of muscovite.
- 388 - 399 Clay -- moderate orange pink, olive light gray; slightly sandy; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; few flakes of muscovite.
- 399 - 409 Clay -- olive light gray; moderate sand; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 50% glauconite; few flakes of muscovite.
- 409 - 420 Sand -- olive light gray; slightly clayey; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 35% glauconite; few shell fragments; muscovite.
- 420 - 430 As above except 40% glauconite.
- 430 - 441 Sand -- olive light gray; slightly clayey - olive light gray, moderate orange pink (clasts); medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; few shell fragments; muscovite; forams scarce (inc. Nodosaria).

Depth
(feet)

- 441 - 451 Clay -- olive light gray, moderate orange pink; abundant sand, medium grained; subangular to rounded; well sorted; quartz; 50% glauconite; few flakes of muscovite.
- 451 - 462 Sand -- olive light gray; slightly clayey - olive light gray, moderate orange pink (clasts); medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; some sandy limestone fragments; few flakes of muscovite; forams (inc. Nodosaria)
- 462 - 472 As above except moderate clay; forams (inc. Nodosaria and Dentalina).
- 472 - 483 Sand -- olive light gray; some stained grains; slightly clayey (clasts); olive light gray, moderate orange pink; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite (brown, black, green); some shell fragments; few flakes of muscovite; forams scarce (inc. Nodosaria and Dentalina).
- 483 - 493 As above except 50% glauconite; forams (inc. Nodosaria and Dentalina).
- 493 - 504 As above except moderate clay; few echinoid spines.
- 504 - 514 Sand -- olive gray; slightly clayey (clasts) - olive light gray; medium to coarse grained; rounded; well sorted; 65% glauconite (green); quartz; 15% shell fragments; forams (inc. Nodosaria); few echinoid spines.
- 514 - 525 Sand -- off white; coarse to very coarse grained, 3% granules; sub-rounded; moderately well sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 525 - 535 Clay -- dusky yellow, light olive gray; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 10% glauconite; few flakes of muscovite.
- 535 - 546 As above.
- 546 - 556 Sand -- light olive brown; moderate clay; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
- 556 - 567 Clay and sand - dusky yellow; abundant clay; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some lignite; glauconite; few flakes of muscovite.
- 567 - 577 As above except few pieces of lignite.

Depth
(feet)

- 577 - 588 Sand -- off white; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 588 - 598 As above plus few granules.
- 598 - 609 As above.
- 609 - 625 Sand -- yellowish gray; abundant clay -- yellowish gray, moderate reddish orange; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 625 - 640 Clay and sand -- yellowish gray, medium light gray; medium grained, some fine grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite; biotite.
- 640 - 653 Sand -- light olive gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; few flakes of muscovite.

NOTE: All samples are unwashed.

Logged by: Michael T. Currie
April 13, 1979