Lincoln-Lancaster County Health Department
ENVIRONMENTAL PUBLIC HEALTH DIVISION

006649

3140 N STREET · LINCOLN, NE 68510-1514

(402) 441-8000

Permit: SEWAGE INSTALLATION
SEPTIC SYSTEM

Permit # 05380299901

Issued 04/14/05
Expires 04/15/06
Revenue Code 3157

Establishment:
CANDI BRYANT
T7N R7E SEC 2
HOLLAND ACRES BLK 3 LOT 1
8400 LIGHTNER LN-HOLLAND

FEES: $200.00

Permittee:
CANDI BRYANT
4623 BIRCH CREEK DR
LINCOLN NE 68516

TOTAL: $200.00

Bruce D. Dart

Bruce D. Dart, Health Director

EPH COPY

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

A

Permit Number: 05380299701

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☑ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

Address 8400 lightner lane (no rural route) City Holland NE, Zip 68372

Legal Description 2 7N 7E ← Holland acres B 3 1
1/4 1/4 Section Township Range Subdivision Addition Block Lot

Geographical Location (if known): Longitude _____ Latitude _____

☑ Check if system mail address is not the same as the owner's address

B. Owner

Name Candi Bryant Signature Candi Bryant

Address 4623 Birch Creek Dr City/State/Zip Lincoln NE 68516

☐ Check if owner designed system Home Phone 423-2850 Work Phone 327-3783

C. Contractor

Name Brandon Nelson Company Name NCO INC Nelson constution & Design

Address 9110 Foxtail DR City/State/Zip Lincoln Ne 68526

☑ Check if contractor designed system Work Phone 890-5533 484-5001

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name Scott Haas Firm Haas Contracting Work Phone 402-499-1166

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 4 Is there a Whirlpool Bathtub YES (NO)

☐ Commercial Establishment/Other Facility Specify _____

Design flow in gallons per day _____ Type of Wastewater: ☒ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 2832

1. **Health Department** Date rec'd 4/14/05 Date frwd 4/14/05 ACTION ☒ Approved ☐ Disapproved Signature Jerrold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 4-14-05 Date frwd 4-14-05 ACTION ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 4/14/05 Date frwd 4/14/05 ACTION ☒ Approved ☐ Disapproved Signature _____

7/26/05 Need drawing, J.C.#

Installation Final Written Approval

By _____

Date 12/21/06

Business Office Use Only
Date Rec'd 04/14/05
Amt Paid 200.00
Rec'd By _____ Cash/Check No. 5346

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

Lincoln-Lancaster County Health Department
Environmental Health Division
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Phone: 402-441-8022

B

Permit Number: 05 3802999

Sewage Disposal System

Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address _____ City _____ NE, Zip _____
(no rural route)

Owner _____ Addresss Holland Acres Blk 3 Lot 1

Soil Type (SCS): Wymore inclusion over Pawnee Soil Percolation Rate: _____ min./inch

Date of Tests 3-25-05 to 3-31-05 Weather: Precipitation ½ to 1" rain Temperature 35-50°F

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
#1	24"	3-24-05	9:30	3-25-05	8:00AM	3-25-05	8:00AM	6"	3-25-05	11:00AM	30min	5/8"	48 mpi
#2	23"	3-24-05	"	"	"	"	"	6"	"	"	"	5/16"	96 mpi
#3	22"	3-24-05	"	"	"	"	"	6"	"	"	"	9/16"	53 mpi
#4	24"	3-30-05	9:00	3-31-05	9:00	3-31-05	8:00	6"	3-31-05	12:00AM	"	1/2"	60 mpi
#5	24"	"	"	"	"	"	"	6"	"	"	"	7/16	69 mpi
#A	23"	"	"	"	"	"	"	6"	"	"	"	1/2"	60 mpi
#B	23"	"	"	"	"	"	"	6"	"	"	"	1/2"	60 mpi
#C	24"	"	"	"	"	"	"	6"	"	"	"	1/4	120 mpi
#D	24"	"	"	"	"	"	"	6"	"	"	"	5/8"	48 mpi

Sum of Percolation Rates (drop): 4.32"
Average of Rates (drop): .48"
Rate Used for Calculation: 60 mpi

Six holes evenly spaced over absorption field

Person Conducting Percolation Tests

Name: Ron Mayhew (LLCHD)
Phone: 441-8030
Address And Hoes Contracting (499-1166)

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks See Perc test Report: Because this Wymore inclusion is resting on Pawnee soil; the absorption field trenches must be shallow (20 to 24" deep) to keep the bottom of the trench an adequate distance above the impermeable clay layer of Pawnee soil.

Signature of Reviewing Official Ron Mayhew, R.S. Date April 1, 2005

FORM 23-101 10-96

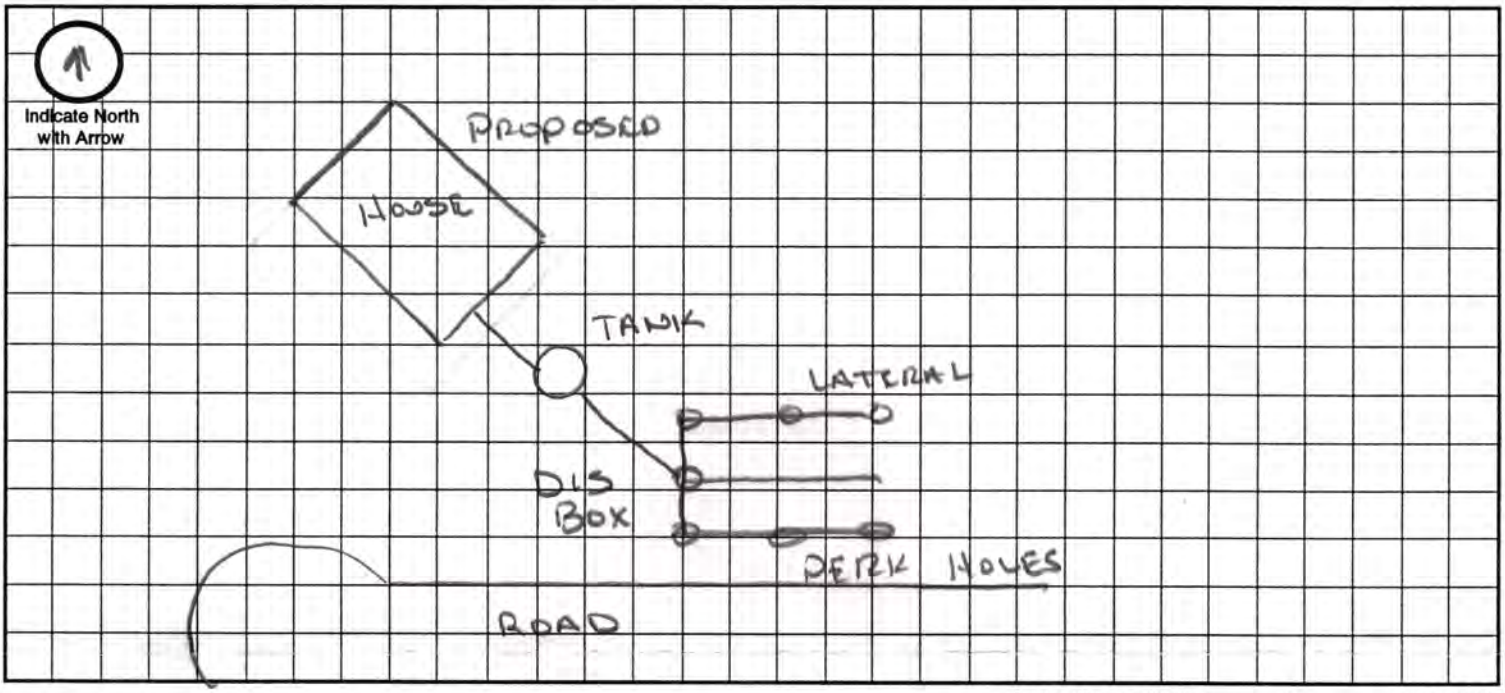
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

C

Permit Number: 053802989

Sewage Disposal System
Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



Approximate Scale: _____ ft. = _____ grid line/s

A. System Location (Indicate correct number and street)

Address (no rural route) _____ City _____ NE, Zip _____

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate _____ (min. per inch) Soil Type: _____ Land Slope: _____ %

Type of Absorption System: ☒ Trench ☐ Bed ☐ Other _____

Total Square Feet of Field Required: _____ sq. ft.

Type of Lateral: ☒ Half-Moon ☐ Perforated Pipe ☐ Other Lateral Material: _____

Capacity of Septic Tank 1550 gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals _____ ft. Number of Trenches _____ Trench Width _____

D. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☒	500 ☒	50 ☒	NA ☐	25 ☒	20 ☒	15 ☒	25 ☒	☒
Field (ft)	100 ☒	500 ☒	50 ☒	4 ☒	30 ☒	20 ☒	30 ☒	40 ☒	☒
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

E. Required Signatures

Home Building Contractor _____ Date 04/13/05

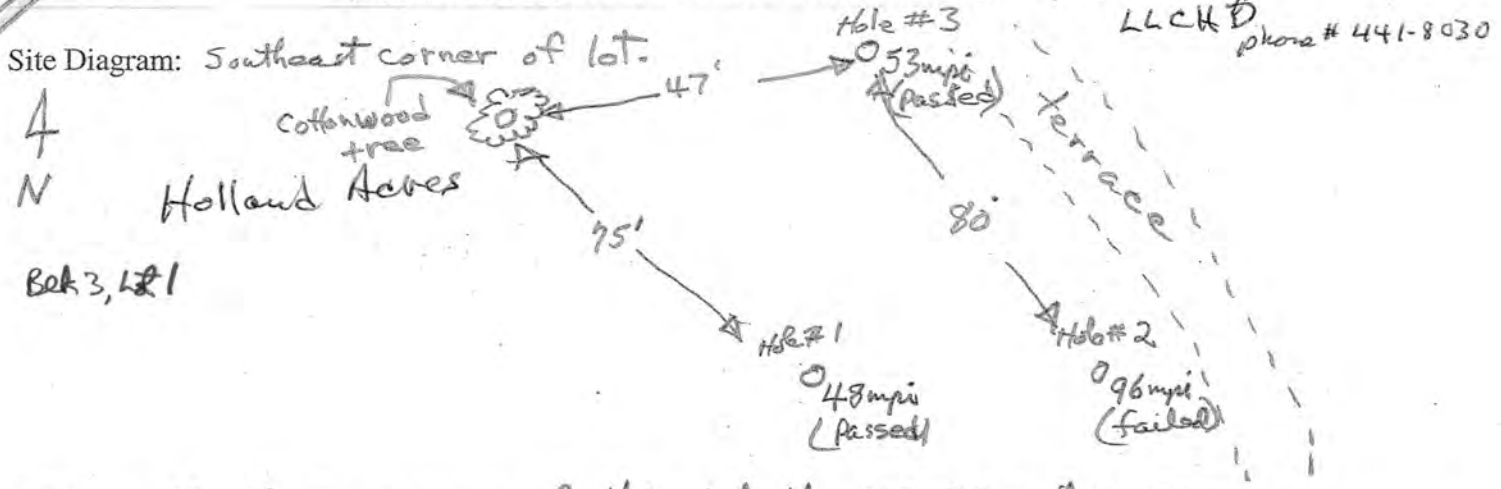
Installer _____ Date 04/14/05

FORM 23-102 10-96

STANDARDIZED SOIL PERC TEST REPORT

by Kon' [illegible] LLCHD phone # 441-8030

Site Diagram: Southeast corner of lot.



Soil Type: In the SE corner of this lot the U.S. D.A. soils map shows Pawnee and Mayberry glacial soils. these soil types are characteristically of high clay content and have very slow or failing perc rates. these soils have a perched water table 1 to 3 ft below the surface in the spring in some years. there is a small amount of Wymore soil in the northeast corner of this lot.

Perc Rate: Hole #1: the soil near the bottom of at 24" deep test hole was at the plastic limit (PL) and produce about a 1½" ribbon indicating moderate clay content. this hole passed at 48 mpi perc rate.

Hole #2: Soil near bottom of 23" deep hole was at PL and produced about a 2" ribbon clay content. this hole failed at 96 mpi.

Hole #3: Soil near bottom of test hole 22" deep was at PL and had a ribbon of about 1½". this hole passed at 53 mpi.

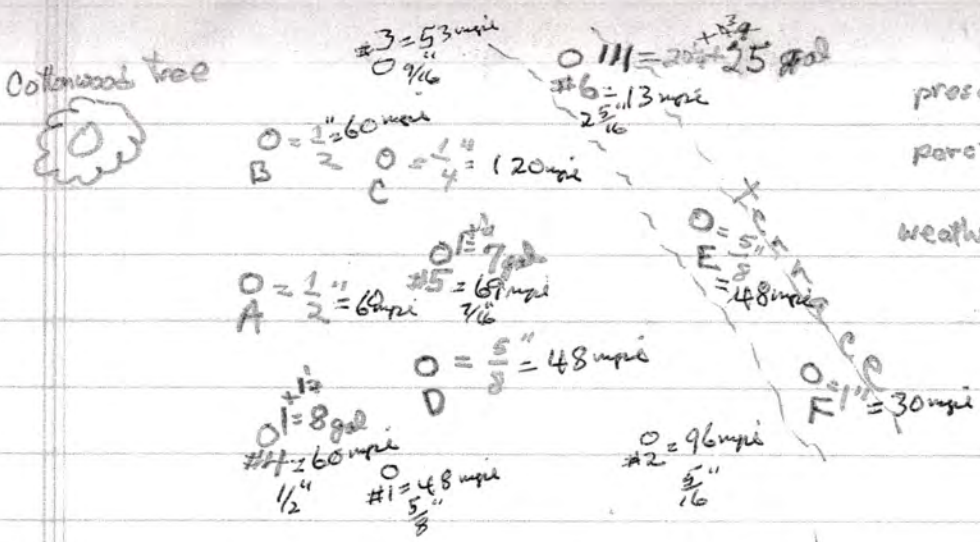
Comments: there appears to be an inclusion of Wymore type soils in the SE corner of this lot. this inclusion of a patch of wind-blown Wymore soil appears to be present on top of the slowly permeable glacial Pawnee & Mayberry soils.

Another perc test in this area with test holes evenly spaced over an proposed absorption field site in the SE corner of the lot may produce a passing perc rate in 6 or more holes. If a minimum of 6 test holes average 60 mpi or faster and vary by no more than 20 mpi between holes, then a conventional absorption field for an onsite septic system could be installed in this area.

Holland Acres

4N

Cottonwood tree



presoak: start 9:00 for holes #4, 5, 6 3-30-05

perc test: start 9:00AM 3-31-05

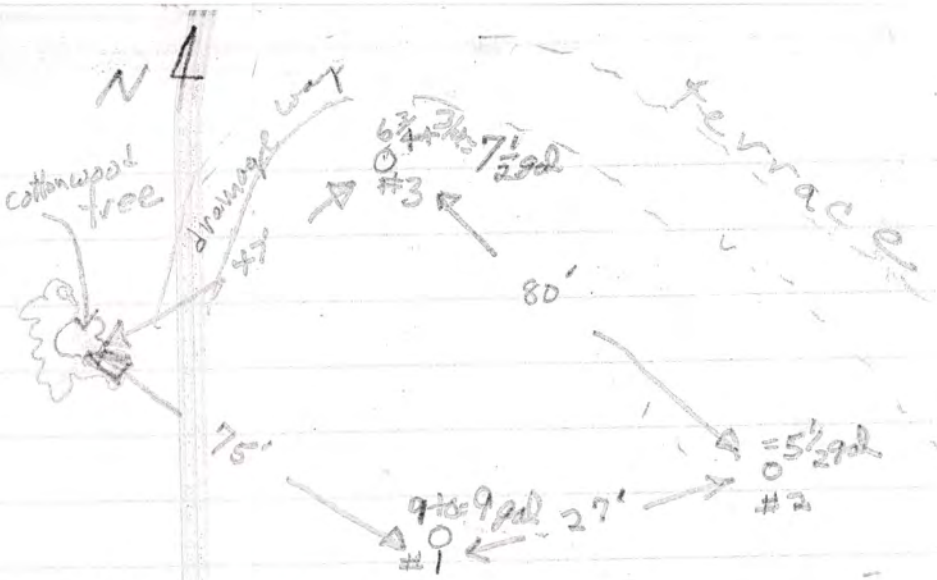
weather: Light rain showers during presoak 40°F, windy
sunny & clear for perc test next day 40°F, windy
4½" of rain in 2 day heavy rain late afternoon of ½ to 1" on 3-30-05

Holes	time →	9:00AM	9:30	10:00		
#4 (25¼)		25 3/8 = 6/16	25 3/16	25 5/16	25 3/8 = 6/16	25 5/16
24" deep		24 13/16	24 11/16	24 3/4 = 12/16	24 13/16	24 13/16
ribbon 1½" @ PL		9/16	8/16 = 1/2	9/16	9/16	8/16 = 1/2 → 60 mph
25¼ − 24 13/16 = 9/16 water in hole						
#5 (25)		25	24 7/8 = 14/16	25 1/16	25	25 1/8 = 2/16
24" deep		24 1/2	24 7/16	24 5/8 = 10/16	24 1/2	24 11/16
Ribbon 1½" @ PL		1/2	7/16	7/16	1/2	7/16 → 69 mph
25 − 24½ = ½ water in hole						
#6 (24¾)		24 12/16	24 3/4 = 6/8	24 11/16	24 11/16	24 3/4 = 12/16
23" deep		21 7/16	22 1/8	22 3/8 = 6/16	22 3/16	22 7/16
Ribbon 1½" @ PL		3 1/8	2 5/8	2 5/16	2 1/2	2 5/16 → 13 mph
1st hole						
10½ − 25½						

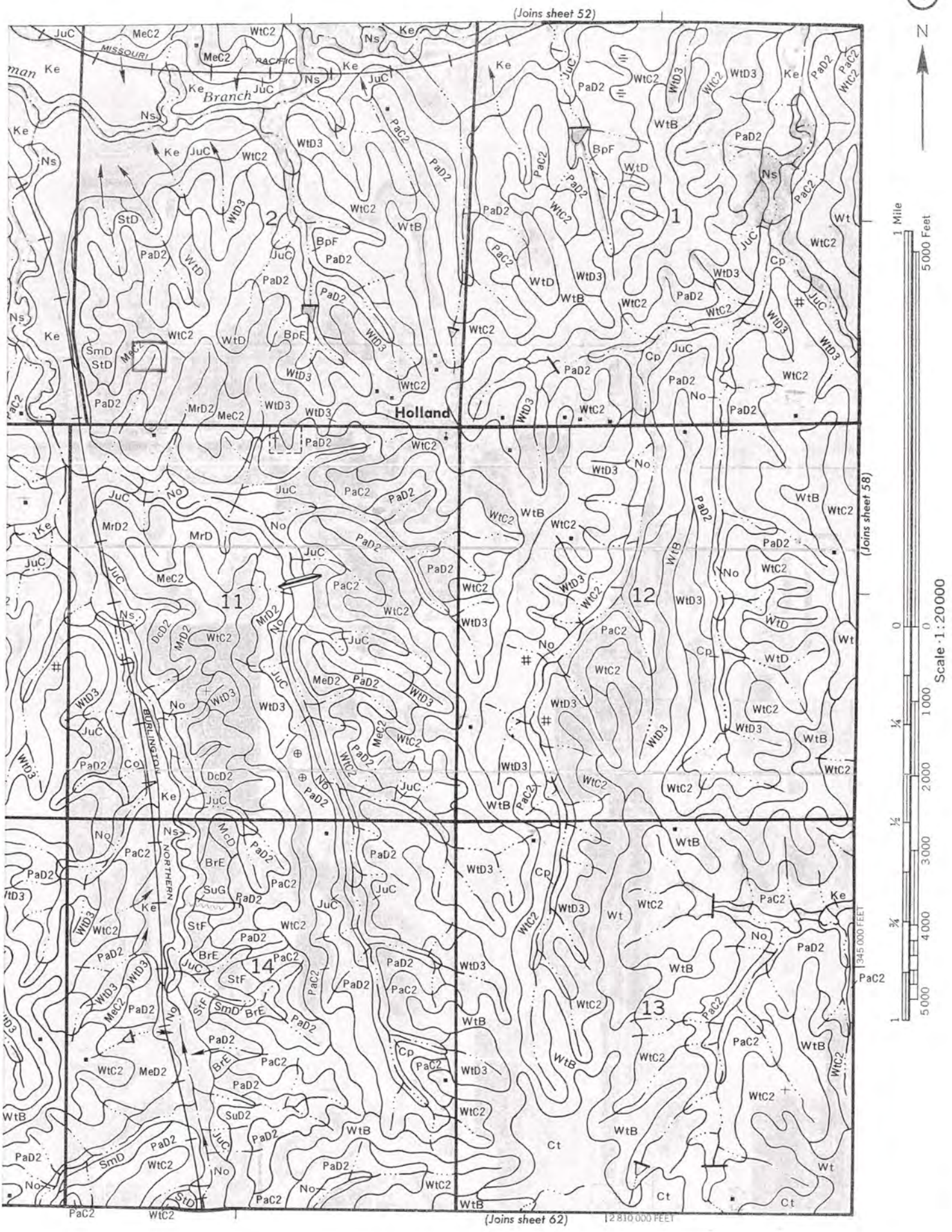
Note: Perc test holes of previous test on 3-25-05 had 2"-3" of water in bottom of holes (Heavy rain late afternoon of ½-1" on 3-30-05 of previous day).

Sum of 9 holes in absorption field area equals 4.32" ÷ by 9 holes = .48" av. drop.

Holland Acres
pre-soak: start 9:30 AM 3-24-05
perc test: start 8:00 AM; 3-25-05
weather clear & no precipitation 50°F



time	8:00 AM	8:30	9:00			
Hole #1 (24 1/2)	24 1/2 3/4	24 1/2 5/16	24 7/16	24 1/2 3/8	24 5/8	
24" deep	23 9/16	23 13/16	23 12/16	23 3/8	24	
@ PL 1 1/2" water	1 1/16	11/16	10 5/8	5/8	5/8	→ 48 mpi
DPRP = 24 1/2						
(dry)						
Hole #2 (26 1/4)	26 1/8	26 3/8 5/16	26 2/16	26 1/2 7/16	26 5/16	
23" deep	25 7/8	26 1/16	26 14/16	25 1/4	26	
2" ribbon	1/4	5/16	9/16	5/16	5/16	→ 96 mpi
@ PL						
21 1/4 - 27 3/4						
(water in hole)						
Hole #3 (27)	26 3/4 5/8	27 1/16	27	27 1/8	27	
22" deep	25 5/8	26 1/4 2/16	26 5/16	26 1/2 4/8	26 7/16	
1 1/2" water	1 1/8	13/16	11/16	1 5/8 10/16	9/16	→ 53 mpi
@ PL						


57
(Joins sheet 52)
N
MISSOURI PACIFIC
Branch
Holland
(Joins sheet 58)
(Joins sheet 62)
BURLINGTON
NORTHERN
345 000 FEET
2 810 000 FEET
1 Mile
5000 Feet
Scale 1:20000
WtC2