

CHEYENNE COUNTY Test-Hole Logs

Written in Part and Revised and Compiled in Part
from Previous Works

by

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**Nebraska Water Survey
Test-Hole Report No. 17**

ADDENDUM

**Conservation and Survey Division
Institute of Agriculture and Natural Resources
University of Nebraska-Lincoln**

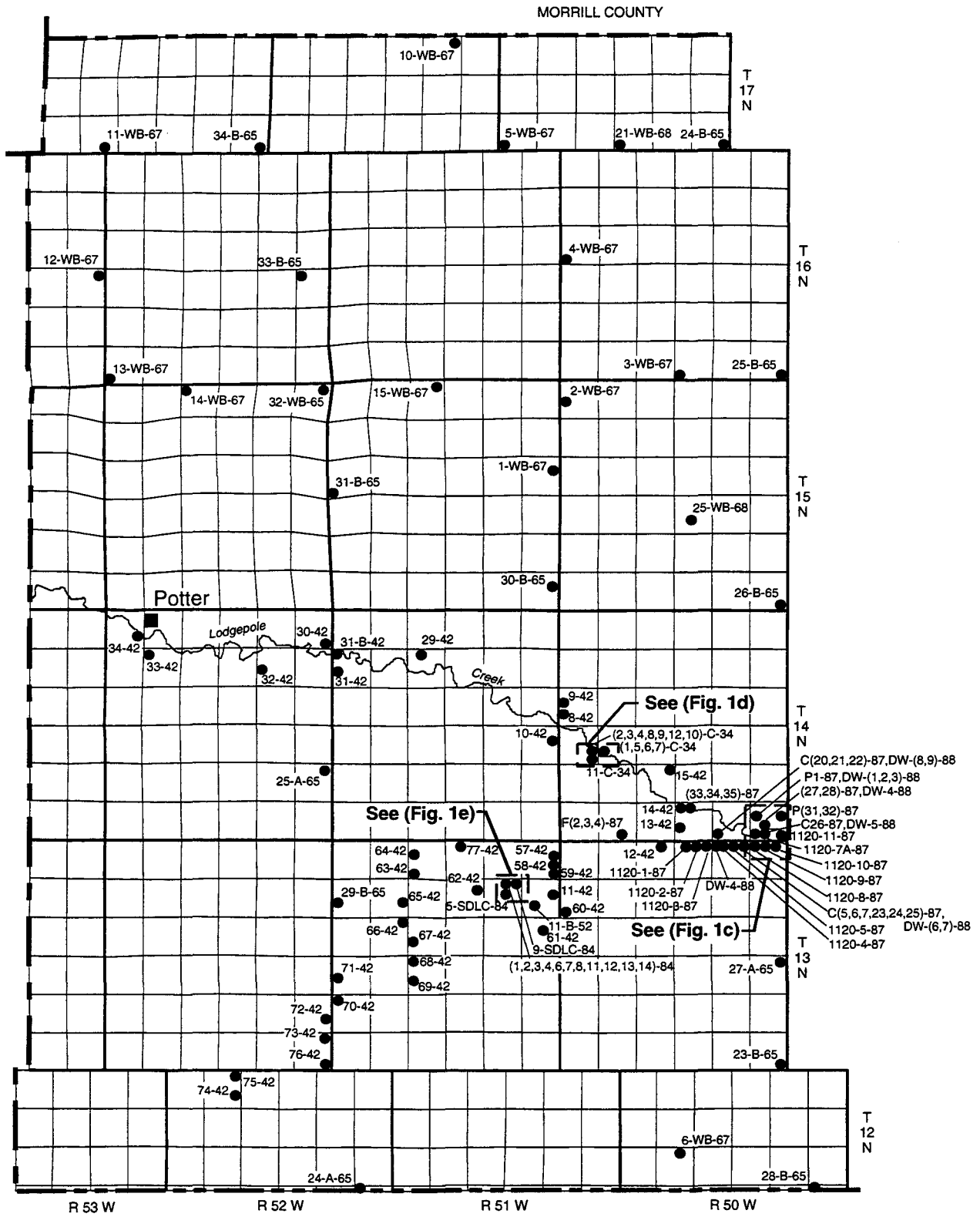


April, 1999



Note

The logs of 10 test holes were inadvertently left out of the first edition of the Cheyenne County Test-Hole Logs (April 1999). They are included in this addendum along with an update of figures 1a and c. When there is a future press run of the book, the logs will be inserted in their proper places in the revised edition.



● Test hole description published in this report

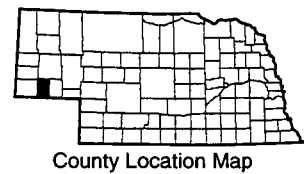


Fig. 1a. Test-hole location map, west half of Cheyenne County.

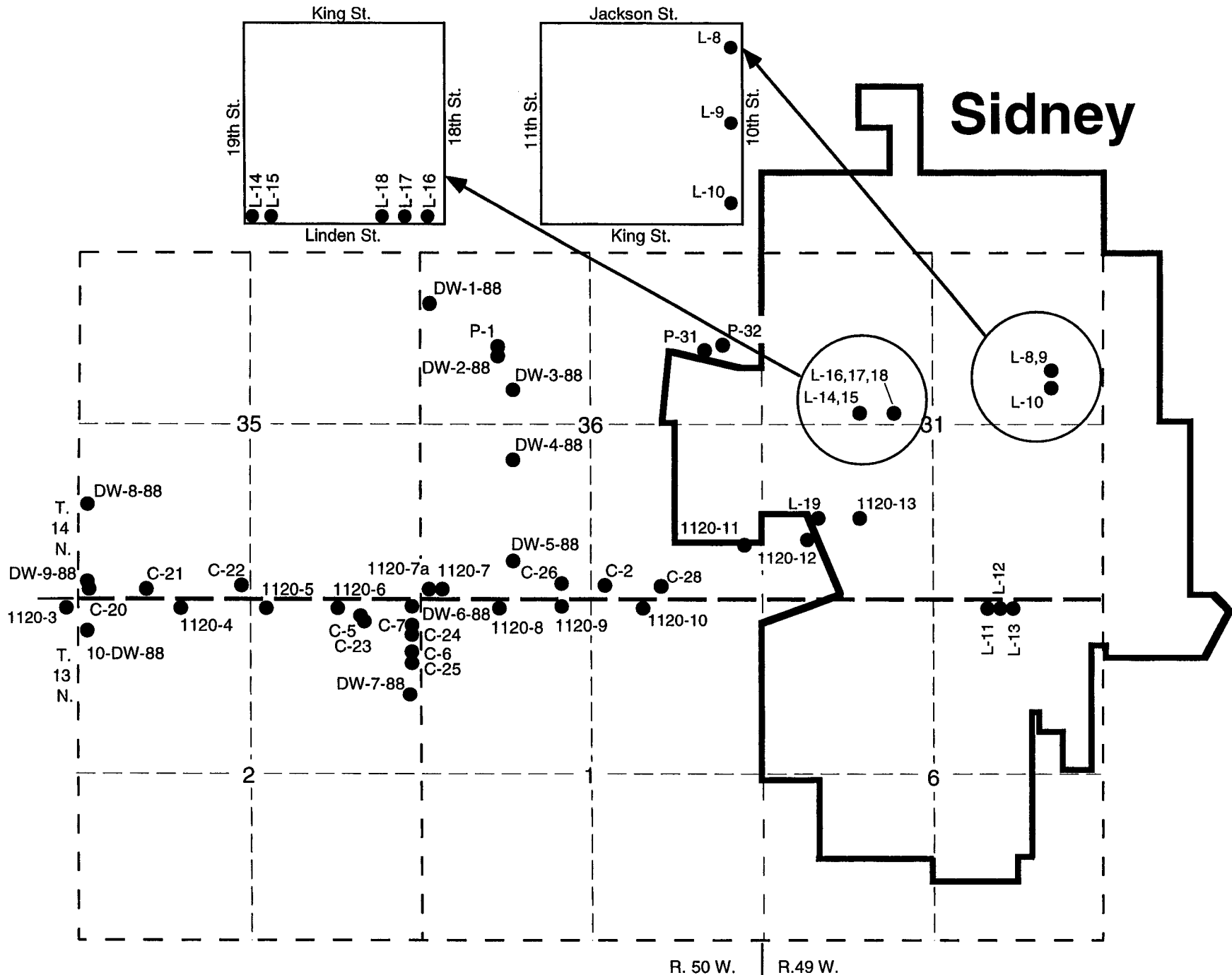


Figure 1c. Test-Holes (1987-88) in the Sidney, Nebraska, Area.

**Cheyenne County Addendum
Test-Holes Table of Contents**

Legal Descrip Twp Rge Sec	Test-Hole Number	Page
13N 50W 02AAAD	DW-6-88	1a
13B 50W 02ADAA	DW-7-88	2a
13N 50W 02BBBC	DW-10-88	3a
14N 50W 35CBCC	DW-8-88	4a
14N 50W 35CCCB	DW-9-88	5a
14N 50W 36BCCB	DW-1-88	6a
14N 50W 36BCAA	DW-2-88	7a
14N 50W 36BDCB	DW-3-88	8a
14N 50W 36CABC	DW-4-88	9a
14N 50W 36CDCB	DW-5-88	10a

Test-holes are arranged in this publication by township, range and section.

**Test Hole #DW-6-88 (No e-logs)
(13N-50W-2aaad3)
Cheyenne County**

Location: SE NE NE NE sec. 2, T. 13 N., R. 50 W., 334 ft. south and 19 ft. west of northeast corner.

Ground elevation: 4,117 ft. (t). (Brownson 7.5 min. quadrangle)

Depth to water: Unknown. (8-1-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Top soil, dark brown, sandy silt.....	0.0	1.5
Silt, sandy, brown.....	1.5	8.0
Sand and gravel, granitic, increased local clasts toward base.....	8.0	35.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, brown, clay cement.....	35.0	39.0

**Test Hole #DW-7-88 (No e-logs)
(13N-50W-2adaa)
Cheyenne County**

Location: NE NE SE NE sec. 2, T. 13 N., R. 50 W., 1,482 ft. south and 20 ft. west of northeast corner.

Ground elevation: 4,125 ft. (t). (Brownson 7.5 min. quadrangle)

Depth to water: Unknown. (8-1-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Silt, sandy, medium brown.....	0.0	1.5
Sand, light brown.....	1.5	4.0
Sand and gravel, granitic, siltstone fragments.....	4.0	20.5
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, sandy, brown, clay cement.....	20.5	21.5

**Test Hole #DW-10-88 (No e-logs)
(13N-50W-2bbbc)
Cheyenne County**

Location: SW NW NW NW sec. 2, T. 13 N., R. 50 W., 361 ft. south and 49 ft. easts of northwest corner.

Ground elevation: 4,130 ft. (t). (Brownson 7.5 min. quadrangle)

Depth to water: Unknown. (8-2-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Silt, sand, dark brown, trace gravel.....	0.0	1.5
Silt, sandy, brown, gravelly.....	1.5	6.5
Sand and gravel, silty, granitic.....	6.5	14.0
Silt, sandy, brown, gravelly.....	14.0	21.5
Sand and gravel, granitic, with local clasts.....	21.5	27.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, brown, clay cement.....	27.0	29.0

**Test Hole #DW-8-88 (No e-logs)
 (14N-50W-35cbcc)
 Cheyenne County**

Location: SW SW NW SW sec. 35, T. 14 N., R. 50 W., 1,634 ft. north
 and 55 ft. east of southwest corner.

Ground elevation: 4,125 ft. (t). (Brownson 7.5 min. quadrangle)

Depth to water: Unknown (8-2-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Silt, sandy, dark brown.....	0.0	1.5
Silt, sandy, medium brown, trace of gravel.....	1.5	9.0
Sand and gravel, granitic, with siltstone clasts increasing toward base.....	9.0	26.5
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, sandy, light brown, clay cement.....	26.5	29.0

**Test Hole #DW-9-88 (No e-logs)
 (14N-50W-35cccb)
 Cheyenne County**

Location: NW SW SW SW sec. 35, T. 14 N., R. 50 W., 439 ft. north
 and 51 ft. east of southwest corner.
 Ground elevation: 4,125 ft. (t). (Brownson 7.5 min. quadrangle).
 Depth to water: Unknown. (8-2-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Silt, sandy, brown, trace gravel toward base.....	0.0	6.5
Sand and gravel, silty in places, granitic, with local clasts.....	6.5	25.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, light brown, clay cement.....	25.0	29.0

**Test Hole #DW-1-88 (No e-logs)
 (14N-50W-36bbcb)
 Cheyenne County**

Location: NW SW NW NW sec. 36, T. 14 N., R. 50 W., 720 ft. north and
 26 ft. east of U.S. highway 30.
 Ground elevation: 4,150 ft. (t). (Brownson 7.5 min. quadrangle)
 Depth to water: Unknown. (8-1-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Silt, sandy, dark brown.....	0.0	1.5
Silt, sandy, brown.....	1.5	9.0
Tertiary System - Miocene Series - Ash Hollow Formation:		
Ogallala Group:		
Sandstone, white to pink, calcareous cement.....	9.0	15.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, brown, clay cement.....	15.0	19.0

**Test Hole #DW-2-88 (No e-logs)
 (14N-50W-36bcaa2)
 Cheyenne County**

Location: NE NE SW NW sec. 36, T. 14 N., R. 50 W., 26 ft. west on west side of private drive and 86 ft. south of U.S. highway 30.
 Ground elevation: 4,118 ft. (t). (Brownson 7.5 min. quadrangle).
 Depth to water: Unknown. (8-2-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Topsoil, dark brown to black, sandy silt.....	0.0	1.5
Silt, sandy, brown to light brown.....	1.5	7.0
Sand and gravel, granitic, with reworked Ogallala caliche and Brule siltstone clasts.....	7.0	19.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, sandy, brown, clay cement.....	19.0	25.0

**Test Hole #DW-3-88 (No e-logs)
(14N-50W-36bdcB)
Cheyenne County**

Location: NW NW SE NW sec. 36, T. 14 N., R. 50 W., 631 ft. south of
 U.S. highway 30 and 32 ft. east of private road.
 Ground elevation: 4,116 ft. (t). (Brownson 7.5 min. quadrangle).
 Depth to water: Unknown. (8-2-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Top soil, sandy silt, dark brown to black.....	0.0	1.6
Silt, sandy, brown, trace gravel.....	1.6	8.5
Sand and gravel, granitic, siltstone clasts near base.....	8.5	21.5
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, sandy, brown, clay cement and discontin- uous calcareous cement.....	21.5	24.0

**Test Hole #DW-4-88 (No e-logs)
 (14N-50W-36cabC)
 Cheyenne County**

Location: SW NW NE SW sec. 36, T. 14 N., R. 50 W., 1,640 ft. south
 of U.S. highway 30 and 21 ft. east of private road.
 Ground elevation: 4,115 ft. (t). (Brownson 7.5 min. quadrangle).
 Depth to water: Unknown. (8-3-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Topsoil, dark brown, sandy silt.....	0.0	1.5
Silt, sandy, light brown, calcareous toward base....	1.5	6.0
Sand and gravel, granitic, with local clasts.....	6.0	21.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, brown, clay cement.....	21.0	24.0

Test Hole #DW-5-88 (No e-logs)
(14N-50W-36cdcb)
Cheyenne County

Location: NW SW SE SW sec. 36, T. 14 N., R. 50 W., 529 ft. north of south section line and 462 ft east of west drive just south of Lodgepole Creek.

Ground elevation: 4,110 ft. (t). (Brownson 7.5 min. quadrangle)

Depth to water: Unknown. (8-3-88).

	<u>Depth, in feet</u>	
	From	To
Quaternary System, undifferentiated:		
Top soil, sandy silt, dark brown.....	0.0	1.5
Silt, sandy, brown, with gravel.....	1.5	3.0
Sand and gravel, granitic, with local lithic clasts.	3.0	21.0
Tertiary System - Oligocene Series - White River Group:		
Brule Formation:		
Siltstone, sandy, light brown.....	21.0	24.0