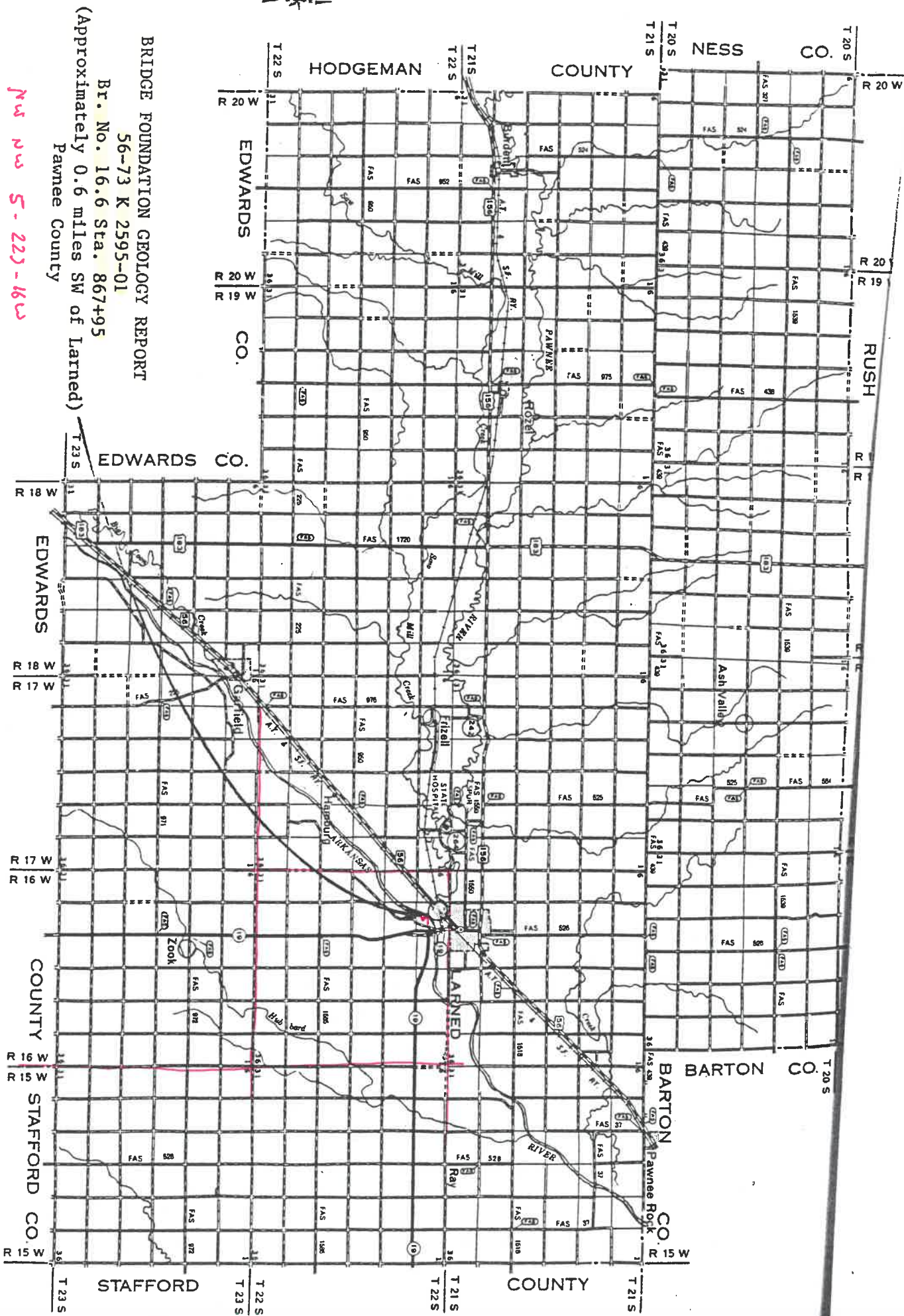




BRIDGE FOUNDATION GEOLOGY REPORT

56-73 K 2595-01

Br. No. 16.6 Sta. 867+95

(Approximately 0.6 miles SW of Larned)

Pawnee County

NE 25-223-16W

0' to 35'

CRF 1000

Pakota

ROUTE NO. US 56

SOUNDING NO. 2

SHEET / OF /

## KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Pawnee

PROJECT NO. 56-73-K2595-01 BRIDGE NO. 16.6

DESCRIPTION US 56 over Arkansas River Overflow STA. 868 +21, Lt. 31

GEOLOGIST Koontz

VERTICAL SCALE 1 in. = 10 ft.

DATE Jan. 1986

| BIT<br>TYPE & NO. | GEOLOGIC<br>NAME | GEOLOGIC<br>COLUMN | GROUNDWATER<br>ELEVATION | DEPTH | ELEVATION | GEOLOGIC DESCRIPTION<br>AND REMARKS                                                                                                                                         | UNCONFINED<br>COMPRESSION    | STANDARD<br>PENETRATION<br>OR<br>CASING DRIVE |                                                                              |
|-------------------|------------------|--------------------|--------------------------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------|------------------------------------------------------------------------------|
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              | BLOWS                                         | ELEV.                                                                        |
| "N" Hawthorne     | Alluvium         |                    |                          |       |           | THE = 1997.7                                                                                                                                                                | Shelby<br>Sample No.         | pushed                                        | 1992.2<br>1990.7                                                             |
|                   |                  |                    |                          |       |           | Silty sandy clay, brown to tan-brown. Minor conc. rubble. 1993.9                                                                                                            |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           | Clay, sandy, tan-gray to gray, contains some small gravel in zones. More sand and gravel w/ depth. 1986.2                                                                   |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           | Sand and Gravel, upper portion contains zones of gray clayey binder but grades to fairly clean and clean w/ depth. Poor circulation. Some gravel is coarse (3/4" +). 1973.2 |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           | Shale, clayey, light gray w/ bright maroon streaking and mottling. Upper portion wd, mostly f. firm. 1968.2                                                                 |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           | Shale, firmer, clayey with minor sandy streaks, light gray to gray w/ maroon. Fairly firm and stiff requires hyd. pressure. 1962.5                                          |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           | T.D. = 35.2 Elev. 1962.5                                                                                                                                                    |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
| Dakota<br>Fm.     |                  |                    |                          |       |           |                                                                                                                                                                             | Standard Penetr.<br>Test No. | blows per<br>last foot penetr.                | 1972.6<br>1971.1<br>1969.7<br>1968.2<br>1966.5<br>1965.0<br>1963.7<br>1962.5 |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |
|                   |                  |                    |                          |       |           |                                                                                                                                                                             |                              |                                               |                                                                              |

\* Note: (SPT NO. 4)

Last 0.5 ft. of test stopped  
with only 0.2 ft. of penetration.  
Blow count for last foot is  
prorated.

See attached sheet for split  
Spoon sample descriptions and  
SPT Results.