

THIRD ORDER LEVELS  
SEA LEVEL DATUM OF 1929

Final adjustment of 1967

Sioux and Plymouth Counties

Edition of 12/5/67

PR: ADP/PH/mp

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

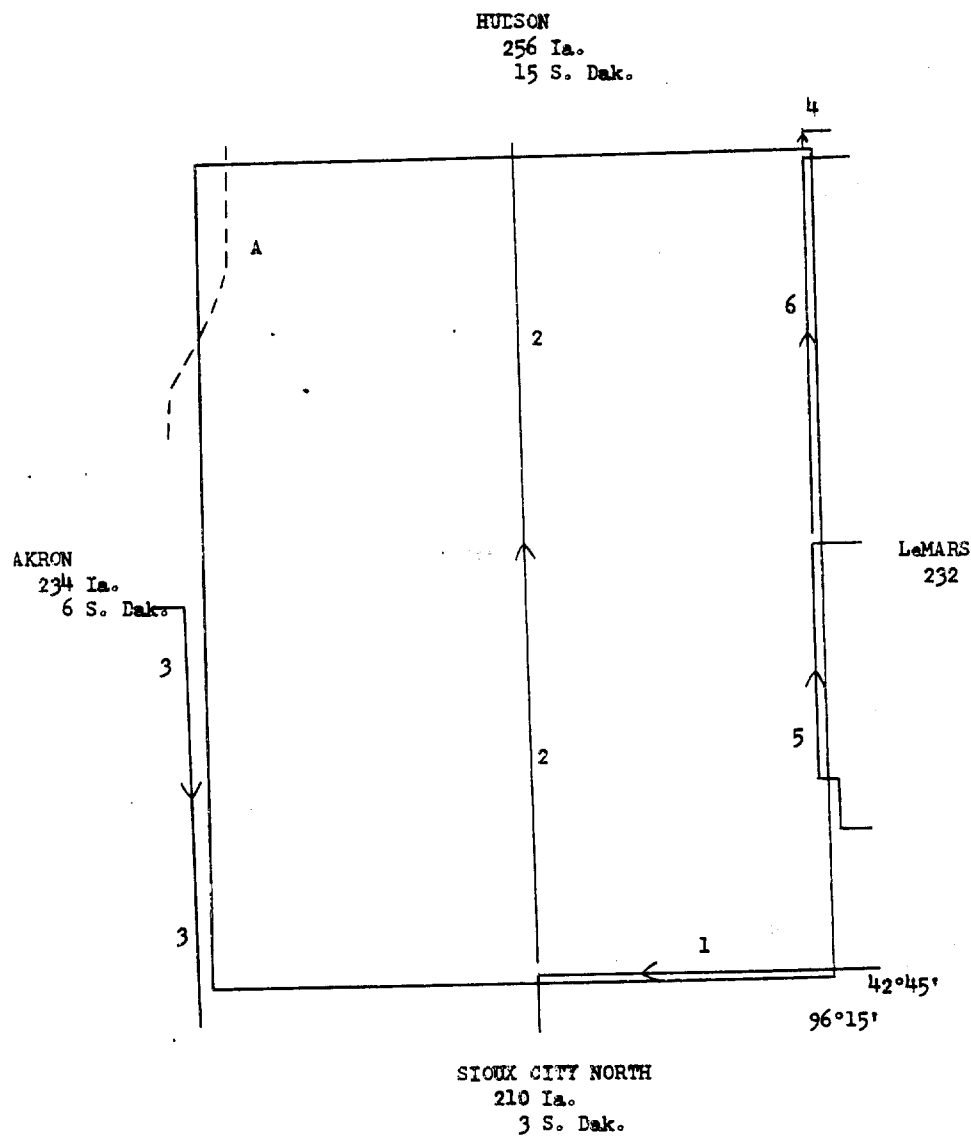
IRETON QUADRANGLE

233 - Iowa

N42°45'-W96°15'

Diagram NK 14-6

Sioux City, Ia., Nebr., S. Dak.



USC&GS LEVELING

A. Quadrangle No. 42C961

233A

2  
Ireton Quadrangle  
233 - Iowa

LINE 1

Feet

WEST ALONG EAST HALF SOUTH BORDER (by G. D. Scroggins, 1967; Book CV 2206)

LeMARS QUAD., 232

1 5 5.2 UE 1 B; about 1.1 mi W. along County Hwy. "A" from junction of U. S. Hwy. 75; 23 ft N., 26 ft E. and 2.6 ft lower than crossroads; on N. end of an 18-in. concrete tube culvert; a chiseled square, painted "UE" 1230.22

6 5.8 UE 1 C; at County Hwy. "A" crossing of the Great Northern RR.; T. 91 N., R. 46 W.; near quarter cor. between secs. 26 and 35; at center of rd. and on top of E. rail; painted "UE Centerline" 1188.1

IRETON QUAD., 233

7 6.2 Brunsville, 4.0 mi S. and 1.0 mi E. of; T. 92 N., R. 46 W.; near cor. of secs. 26, 27, 34 and 35; 199 ft S., 25 ft W. and 3.8 ft lower than T-rd. S. (junction of County Hwys. A and T); on top and in center of W. concrete retaining of concrete box culvert; set in drill hole; a standard tablet stamped "2 GDS 1967" painted "BM 2" 1206.277

7 6.2 Reference mark; 168 ft NE. of tablet; at base and on S. side of power pole; head of rail spike, painted "RM" 1202.77

8 7.2 UE 2 A; about 1.0 mi W. along County Hwy. "A" from tablet; T. 92 N., R. 46 W.; near cor. of secs. 27, 28, 33 and 34; 37 ft S., 30 ft E. and 5.3 ft lower than T-rd. N.; on E. end of easternmost rivet of a 24-in. corrugated metal culvert; painted "UE 2 A" 1346.85

9 8.2 UE 2 B; about 2.0 mi W. along County Hwy. "A" from tablet; T. 92 N., R. 46 W.; near cor. of secs. 28, 29, 32 and 33; 25 ft S., 83 ft E. and 3 ft lower than crossroads; on S. end of concrete tube culvert; a chiseled square, painted "UE 2 B" 1299.28

10 9.2 Brunsville, 4.0 mi S. and 2.0 mi W. of; T. 92 N., R. 46 W.; near cor. of secs. 29, 30, 31 and 32; 52 ft S., 35 ft E. and 8 ft lower than crossroads; 2 ft S. and 2 ft W. of fence corner; 2 ft S. of metal witness post; in concrete post; standard tablet stamped "3 GDS 1967" painted "BM 3" 1388.258

10 9.2 Reference mark; 76 ft N. of tablet; on N. end of an 18-in. concrete tube culvert; chiseled square, painted "RM" 1393.41

11 10.2 UE 3 A; about 1.0 mi W. along County Hwy. "A" from tablet; T. 92 N., R. 46 and 47 W.; near cor. of secs. 25, 30, 31 and 36; 89 ft S., 50 ft W. and 1 ft higher than crossroads; on N. end of concrete step at E. Main entrance to St. Paul's Lutheran Church; a chiseled square, painted "UE 3 A" 1385.74

12 10.7 UE 3 B Centerline; about 1.5 mi W. along County Hwy. "A" from tablet; at center of T-rd. N.; a copper nail and washer, painted "UE 3 B Centerline" 1404.03

13 11.3 UE 3 C Centerline; about 2.1 mi W. along County Hwy. "A" from tablet; at center of T-rd. S.; a copper nail and washer, painted "UE 3 C Centerline" 1399.34

14 12.2 Brunsville, 4.0 mi S. and 5.0 mi W. of; T. 92 N., R. 47 W.; near cor. of secs. 26, 27, 34 and 35; 196 ft N., 171 ft E. and 3.9 ft higher than crossroads (junction of State Hwy. 7 and County Hwy. "A"); 24 ft S. and 14 ft E. from SW. cor. of concrete building housing Communication equipment for the Adaville Micro-wave tower; on SW. cor. of concrete foundation and projecting 5 inches above ground; set in drill hole; a standard tablet stamped "4 GDS 1967" painted "BM 4" 1456.658

14 12.2 Reference mark; 30 ft NE. of tablet, on top of SE. cor. of concrete step of E. entrance to concrete building at micro-wave tower; a chiseled square, not painted 1457.20

Line 1 Cont'd.

SIoux CITY NORTH QUAD., 210 Ia., Feet  
3 S. Dak.

- |    |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                               |          |
|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1  | 15   | 13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UE 4 A; about 1.0 mi S. along State Hwy. 7 from tablet; Ts. 91 and 92 N., R. 47 W.; near cor. of secs. 1, 6, 31 and 36; 70 ft S., 14 ft E. and 2 ft higher than crossroads; on top and in center of E. concrete headwall; a chiseled square, painted "UE 4 A" | 1379.18  |
| 16 | 13.7 | Sioux City, 17.1 mi N. along Hwy. 7 from the intersection of Hwy. 7 and Interstate 29; thence 0.7 mi W. along a gravel rd., in the center of the line between secs. 3 and 34; T. 91 N., R. 47 W.; about 25 yards SE. of a telephone pole; 32 ft S. of center of E.-W. rd.; near the crest of the hill; at the field entrance gate; 1.4 ft E. of E. gate post; 1.1 ft N. of E.-W. fence; in a concrete post projecting 4 inches above ground; a standard tablet stamped "22 RS 1962" |                                                                                                                                                                                                                                                               | 1432.616 |

LINE 2

NORTH THROUGH CENTER OF QUADRANGLE (by G. D. Scroggins, 1967; Book CV 2206)

NOTE: The elevations in this line are tentative pending additional leveling.

IRETON QUAD., 233

- |    |     |                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |          |
|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|
| 1  | 17  | 0.0                                                                                                                                                                                                                                                                                                                                                                                                     | "4 GDS 1967" (previously described in line 1) | 1456.658 |
| 17 | 1.0 | UE 4 AA; about 1.0 mi N. along State Hwy. 7 from tablet; 98 ft N., 18 ft E. and 0.5 ft lower than crossroads; on top and in center of E. headwall of concrete box culvert; a chiseled square, painted "UE 4 AA"                                                                                                                                                                                         |                                               | 1422.26  |
| 18 | 2.0 | UE 4 A B; about 2.0 mi N. along State Hwy. 7 from tablet; 20 ft N., 25 ft E. and 5 ft lower than crossroads; on N. end of northernmost rivet of an 18-in. corrugated metal culvert; painted "UE 4 A B"                                                                                                                                                                                                  |                                               | 1400.84  |
| 20 | 3.1 | Brunsville, about 0.9 mi S. and 5.0 mi W. of; T. 92 N., R. 47 W.; near cor. of secs. 10, 11, 14 and 15; about 0.15 mi N. from Junction of State Hwys. 3 and 7; 99 ft S., 15 ft E. and 2.7 ft higher than center of State Hwy. 3 at drive W. to Elmer Molzen farm; on top and in center of E. concrete headwall of box culvert; set in drill hole; a standard tablet stamped "5 GDS 1967" painted "BM 5" |                                               | 1387.602 |
| 19 | 3.0 | Reference mark; 750 ft S. of tablet; 37 ft N., 47 ft E. and 1.6 ft lower than crossroads; on N. end of an 18-in. concrete pipe culvert; chiseled square, painted "RM"                                                                                                                                                                                                                                   |                                               | 1409.22  |
| 21 | 4.0 | UE 5 A; about 0.9 mi N. along State Hwy. 3 from tablet; T. 92 N., R. 47 W.; near cor. of secs. 2, 3, 10 and 11; 25 ft S., 82 ft E. and same elevation as crossroads; on S. end of concrete pipe culvert; a chiseled square, painted "UE 5 A"                                                                                                                                                            |                                               | 1414.07  |
| 22 | 5.0 | UE 5 B; about 1.9 mi N. along County Rd. "S" from tablet; Ts. 92 and 93 N., R. 47 W.; near cor. of secs. 2, 3, 34 and 35; 28 ft N., 29 ft W. and 4.8 ft lower than crossroads; in center of NW. concrete headwall of box culvert; a chiseled square, painted "UE 5 B"                                                                                                                                   |                                               | 1369.52  |
| 23 | 5.7 | Brunsville, about 1.7 mi N. and 5.0 mi W. of; Craig, about 4.3 mi S. and 3.0 mi W. from; T. 93 N., R. 47 W.; near N. sixteenth cor. between secs. 34 and 35; 10.6 ft W. and 0.7 ft higher than center of bridge at S. end; on S. end of W. concrete curbing of bridge, set in drill hole; a standard tablet stamped "6 GDS 1967" painted "BM" (15 ft above drain)                                       |                                               | 1332.662 |
| 23 | 5.7 | Reference mark; 44 ft NE. of tablet; on N. end of concrete curbing of bridge; a chiseled square, painted "RM"                                                                                                                                                                                                                                                                                           |                                               | 1332.67  |

Ireton Quadrangle  
233 - Iowa

## Line 2 Cont'd.

## IRETON QUAD., 233

## Feet

- 1 24 6.0 UE 6 A; about 0.3 mi N. along rd. from tablet; 19 ft N., 94 ft E. and 1.5 ft lower than crossroads; on N. end of concrete pipe culvert; a chiseled cross, painted "UE 6 A" 1358.56
- 25 7.0 UE 6 B; about 1.3 mi N. along County Hwy. "S" from tablet; T. 93 N., R. 47 W.; near cor. of secs. 22, 23, 26 and 27; 16 ft S., 38 ft E. and 1.7 ft lower than crossroads; in center of S. concrete headwall of box culvert; a chiseled cross; painted "UE 6 B" 1424.92
- 26 8.0 UE 6 C Centerline; about 2.3 mi N. along County Hwy. "S" from tablet; T. 93 N., R. 47 W.; near cor. of secs. 14, 15, 22 and 23; at center of crossroads; a copper nail and washer, painted "UE 6 C Centerline" 1421.67
- 27 9.0 Craig, about 1.0 mi S. and 3.0 mi W. of; T. 93 N., R. 47 W.; near cor. of secs. 10, 11, 14 and 15; 36 ft N., 43 ft E. and 3.8 ft lower than crossroads; 9 ft E. of power pole; 1.8 ft N. of fence, 2 ft N. of metal witness post, in concrete post projecting 4 inches above ground; a standard tablet stamped "7 GDS 1967" painted "EM 7" 1423.214
- 27 9.0 Reference mark; 50 ft S. of tablet; 15 ft S. and 28 ft E. of crossroads; on S. end of concrete pipe culvert; a chiseled square, painted "RM" 1423.16
- 28 10.0 UE 7 A; about 1.0 mi N. along County Hwy. "S" from tablet; T. 93 N., R. 47 W.; near cor. of secs. 2, 3, 10 and 11; 20 ft N., 71 ft W. and 1.3 ft lower than crossroads; (junction of County Hwys. "S" and "C"); on N. end of concrete pipe culvert; a chiseled square, painted "UE 7 A" 1368.22
- 29 11.0 UE 7 B; about 2.0 mi N. along County "S" from tablet; 174 ft S., 24 ft W. and 8.2 ft lower than crossroads; in center of W. concrete headwall; a chiseled square, painted "UE 7 B" 1307.73
- 30 12.0 Craig, about 2.0 mi N. and 3.0 mi W. of and 3.5 mi S. and 3.0 mi W. from Ireton; T. 94 N., R. 47 W.; near cor. of secs. 26, 27, 34 and 35; 41 ft S. and 11 ft E. of crossroads; 10 ft N., 0.6 ft W. from SE. cor. of concrete slab of rd., set in drill hole; a standard tablet stamped "8 GDS 1967" painted "EM 8" 1282.972
- 30 12.0 Reference mark; 510 ft S. of tablet; 14 ft E. and 0.9 ft higher than center of bridge; at N. end; on N. end of E. concrete curbing of bridge; a chiseled square, painted "RM" 1288.65
- 31 13.1 UE 8 A; about 1.0 mi N. along rd. from tablet; T. 94 N., R. 47 W.; near cor. of secs. 22, 23, 26 and 27; 24 ft S., 264 ft W. and 2.5 ft higher than crossroads; on S. end of most easterly of 2 concrete pipe culverts; a chiseled square, painted "UE 8 A" 1300.43
- 32 14.1 UE 8 B; 2.0 mi N. along County Hwy. "S" from tablet; T. 93 N., R. 47 W.; near cor. of secs. 14, 15, 22 and 23; 13 ft S., 48 ft W. and 0.2 ft lower than crossroads; in center of S. concrete headwall; a chiseled square, painted "UE 8 B" 1348.96
- 34 15.1 Ireton, 0.5 mi S. and 2.5 mi W. of; T. 94 N., R. 47 W.; near cor. of secs. 10, 11, 14 and 15; 57 ft S., 45 ft W. and 2.1 ft lower than crossroads; 4 ft W. of right-of-way fence, 4 ft E. of power pole; 2 ft S. of metal witness post, in concrete post; a standard tablet stamped "9 GDS 1967" painted "EM 9" 1390.442
- 33 15.1 Reference mark; 80 ft N. of tablet; 24 ft N., 34 ft W. and 4.9 ft lower than crossroads; on N. end of concrete pipe culvert; a chiseled square 1387.69

| <u>Line 2 Cont'd.</u>                                                                                                                                                                                                                                                                                                             | <u>IRETON QUAD., 233</u>                           | <u>Feet</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------|
| 1 35 16.2 UE 9 A; about 1.0 mi N. along County Hwy. "S" from tablet; T. 94 N., R. 47 W.; near cor. of secs. 2, 3, 10 and 11; 25 ft N., 37 ft W. and 4 ft lower than crossroads; on N. end of a 24-in. concrete tube type culvert; a chiseled square, painted "UE 9 A"                                                             |                                                    | 1292.21     |
|                                                                                                                                                                                                                                                                                                                                   | <u>MUDSON QUAD., 256 Ia.,</u><br><u>15 S. Dak.</u> |             |
| 36 17.2 Reference mark; copper nail and washer; center of crossroads                                                                                                                                                                                                                                                              |                                                    | 1357.55     |
| 36 17.2 Hawarden, 6.0 mi E. of; T. 94 and 95 N., R. 47 W.; cor. secs. 2, 3, 34 and 35; 50 ft N., 38 ft E. and 0.5 ft higher than crossroads; 3.4 ft E., 1 ft S. of right-of-way fence corner; 1 ft S. of witness post, in concrete post projecting 4 inches above ground; a standard tablet stamped "25 GDL 1966" painted "EM 25" |                                                    | 1357.998    |

LINE 3

SOUTH ALONG SOUTH HALF WEST BORDER (by G. D. Seroggins, 1967; Book CV 2206)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>AKRON QUAD., 6 S. Dak.</u><br><u>234 Iowa</u> |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------|
| 1 38 0.0 Chataworth, 3.0 mi S. along the C.M.St.P.&P. RR. from the RR. station at; in the S. end of the W. headwall of a 4 by 10 ft. concrete box culvert under State Hwy. 12; opposite RR. bridge T-536; 140 ft NE. of milepost 16; 77 ft E. of the E. rail, 20 ft W. of the center of the hwy., 1.2 ft N. of the S. end of the headwall; 0.6 ft above the level of the hwy., and about level with the top of the rails, a standard USC&GS disk, stamped "M 154" |                                                  | 1153.879 |
| 38 0.5 UE 154 A; 0.47 mi SW. along State Hwy. 12 from tablet; at center of T-rd. E.; copper nail and washer, painted "UE 154 Centerline"                                                                                                                                                                                                                                                                                                                          |                                                  | 1156.83  |
| 39 1.4 UE 154 B; about 0.47 mi S. and 0.9 mi E. along rd. from tablet; T. 23 N., R. 48 W.; near the cor. of secs. 15, 16, 21 and 22; 36 ft S., 33 ft W. and 7.7 ft lower than crossroads; at base and on SW. side of power pole; head of rail spike, painted "UE 154 B"                                                                                                                                                                                           |                                                  | 1267.13  |
| 40 2.4 Akron, about 2.0 mi N. and 2.8 mi E. of; T. 93 N., R. 48 W.; near the cor. of secs. 21, 22, 27 and 28; 67 ft N., 58 ft E. and 2 ft higher than crossroads; 8 ft W. from SW. cor. of a white wood frame abandoned schoolhouse; 2.8 ft S. of metal witness post, in concrete post; standard tablet stamped "10 GDS 1967" painted "EM 10"                                                                                                                     |                                                  | 1318.571 |
| 40 2.4 Reference mark; 20 ft SE. of tablet; in center of bottom concrete step of abandoned schoolhouse; a chiseled square, painted "EM"                                                                                                                                                                                                                                                                                                                           |                                                  | 1318.20  |
| 41 3.0 UE 10 A; about 0.5 mi S. along rd. from tablet; T. 93 N., R. 48 W.; near quarter cor. between secs. 27 and 28; 37 ft W. and 0.7 ft higher than center of bridge over Beaver Creek; on S. end of W. concrete curbing of bridge; a chiseled square, painted "UE 10 A" NOTE: 18.7 ft above drain                                                                                                                                                              |                                                  | 1224.31  |
| 42 3.4 UE 10 B; about 1.0 mi S. along rd. from tablet; T. 93 N., R. 48 W.; near the cor. of secs. 27, 28, 33 and 34; 25 ft S., 33 ft W. and 2.3 ft lower than crossroads; on S. end of concrete pipe culvert; a chiseled cross, painted "UE 10 B"                                                                                                                                                                                                                 |                                                  | 1284.46  |

Ireton Quadrangle  
233 - Iowa

Line 3 Cont'd.

AKRON QUAD., 6 S. Dak.  
234 Iowa

Feet

- 1 44 4.1 UE 10 C; about 1.7 mi S. along rd. from tablet; 17 ft W. and 0.5 ft higher than center of rd.; in center of W. concrete headwall of small box culvert; head of steel bolt, painted "UE 10 C" 1302.51
- 45 4.8 UE 10 D; about 2.0 mi S. along rd. from tablet; Ts. 92 and 93 N., R. 48 W.; near the cor. of sees. 3, 4, 33 and 34; 159 ft S., 37 ft E. and 3.9 ft higher than crossroads; at base on E. side of power pole; head of rail spike, painted "UE 10 D" 1374.95
- 46 4.8 UE 10 E; about 2.5 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the quarter cor. between sees. 3 and 4; 11 ft E. and 0.3 ft higher than center of bridge; on S. end of E. concrete curbing of bridge; a chiseled square, painted "UE 10 E" NOTE: 12 ft above drain 1288.24
- 47 5.5 Akron, 1.0 mi S. and 2.8 mi E. of; T. 92 N., R. 48 W.; near the cor. of sees. 3, 4, 9 and 10; 28 ft S., 208 ft E. and 5.4 ft lower than crossroads (State Hwy. 3); on top and in center of S. concrete headwall of a 3 x 3-ft. box culvert; set in drill hole; a standard tablet stamped "11 GDS 1967" painted "EM 11" 1355.068
- 47 5.5 Reference mark; 28 ft N. and 208 ft W. of tablet; at center of crossroads; copper nail and washer, painted "RM" 1360.51
- 49 6.4 UE 11 A; about 1.0 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the cor. of sees. 9, 10, 15 and 16; 19 ft S., 32 ft E. and 2.6 ft lower than crossroads; on S. end of an 18-in. corrugated metal culvert; a punched hole 1291.72
- 50 7.1 UE 11 B; about 1.6 mi S. along rd. from tablet; 12 ft S., 26 ft W. and 2.5 ft lower than center of rd. at private drive W. to Harold Moffatt farm; on S. end of an 18-in. corrugated metal drive culvert; a punched hole, painted "UE 11 B" 1308.79
- 51 7.8 UE 11 C; 2.0 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the cor. of sees. 15, 16, 21 and 22; 25 ft N., 71 ft W. and 3.7 ft lower than crossroads; on N. end of most easterly of 2 large corrugated metal culverts; a punched hole, painted "UE 11 C" 1301.07
- 52 8.6 Akron, 4.0 mi S. and 2.8 mi E. of; Westfield, about 0.7 mi N. and 4.8 mi E. from; T. 92 N., R. 48 W.; near the cor. of sees. 21, 22, 27 and 28; 30 ft N., 230 ft E. and 4.9 ft lower than crossroads; 2.6 ft S. and 2 ft E. from SW. barnyard fence cor.; 19 ft S. and 4.7 ft E. from SE. cor. of a white wood frame building enclosing a water well; on property belonging to Julius Willer; 2.0 ft S. of metal witness post, in concrete post; a standard tablet stamped "12 GDS 1967" painted "EM 12" 1321.662
- 52 8.6 Reference mark; 280 ft W. of tablet; 17 ft S. and 49 ft W. of crossroads; on S. end of a damaged metal culvert; a punched hole 1323.28
- 54 9.6 UE 12 A Centerline; 1.0 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the cor. of sees. 27, 28, 33 and 34; at center of crossroads (County Hwy. A); a copper nail and washer, painted "UE 12 A Centerline" 1412.93

ELK POINT QUAD., 4 S. Dak.  
211 Ia., 309 Nebr.

- 55 10.5 UE 12 B; about 1.8 mi S. along rd. from tablet; 22 ft E. and 3.7 ft lower than rd.; on E. end and on top of easternmost rivet of a 24-in. corrugated metal culvert; painted "UE 12 B" 1364.93

Line 3 Cont'd.

ELK POINT QUAD., 4 S. Dak.  
211 Ia., 309 Nebr.

Feet

- 1 56 11.0 Westfield, 5.5 mi E. and 1.5 mi S. of; between secs. 3 and 34; R. 48 W.; T. 92 N., 60 ft S. of center of E.-W. rd., along quarter section fence; 24 ft S. of fence corner post; 18 inches W. of fence; in concrete post projecting 5 inches above ground; a standard tablet stamped "6 RS 1962" 1327.757

LINE 4

NORTH NEAR NORTHEAST CORNER OF QUADRANGLE (by L. M. Taskett, 1963; Book CV 1568)

IRETON QUAD., 233

- 0.0 Ireton, 1.5 mi N. and 3.0 mi E. from; 2.3 mi N. and 3.6 mi W. from Maurice, 4.0 mi W. from intersection of U. S. Hwy. 75 and State Hwy. 10; T. 94 and 95 N., R. 46 W.; 270 ft E., 48 ft S. and 3 ft higher than center of crossroads; at approx. cor. of secs. 1, 2, 35 and 36; 141 ft S. of white farmhouse, 3 ft E. of telephone pole, 1 ft N. of fence line, in concrete post; standard tablet stamped "24 WHV 1957 1409" 1409.315

HUDSON QUAD., 256 Iowa  
15 S. Dak.

- 1.1 UE 24 WHV F; T. 95 N., R. 46 W.; cor. secs. 26, 27, 34 and 35; 14 ft N., 34 ft E. and 2.7 ft lower than crossroads; a punched hole in N. end of a steel culvert; painted "UE 1443.3" 1443.30

SIoux CENTER QUAD., 255 Ia.

- 2.1 UE 24 WHV G; T. 95 N., R. 46 W.; cor. secs. 25, 26, 35 and 36; 16 ft S., 87 ft E. and 4 ft lower than crossroads; a chiseled square in center of S. headwall of a concrete culvert; painted "UE 1399.3" 1399.36

LINE 5

NORTH ALONG SOUTH PORTION OF EAST BORDER THENCE EAST (by W. H. Veatch, 1957; Book CV 864)

LeMARS QUAD., 232

- UE 9 C; 1.4 mi W. of tablet along State Hwys. 3 and 5; top of the E. rail at center of hwy. crossing the Great Northern RR. 1208.1

- UE 9 D; 1.9 mi W. of tablet; T. 92 N., R. 46 W.; 36 ft N., 24 ft E. and 3.6 ft lower than center of crossroads, at approx. cor. sec. 11, 12, 13 and 14; on the E. end of a 24-in. concrete pile culvert; a chiseled square 1295.15

IRETON QUAD., 233

- LeMars, 4.5 mi W. of along State Hwys. 3 and 5 from the Post Office, 1.0 mi S. and 1.25 mi E. of Brunsville, T. 92 N., R. 46 W.; about 0.25 mi E. from cor. of secs. 10, 11, 14 and 15; 151 ft N., 31 ft W. and 1.9 ft higher than center of hwy. at T-rd. N.; 2 ft N. of power pole, 2 ft E. of fence line, in concrete post; standard tablet stamped "10 WHV 1957 1311 ft" 1310.570

- Reference mark; 216 ft SE. of tablet; 50 ft N., 159 ft E. from center of Hwy. at T-rd. N.; in center of N. headwall of concrete box culvert; a chiseled square 1303.51

- UE 10 A; 0.5 mi N. of tablet along gravel rd., center of rd. opposite T-fence S. 1328.8

Ireton Quadrangle  
233 - Iowa

## Line 5 Cont'd.

## IRETON QUAD., 233

## Feet

UE 10 B; 1.1 mi N. of tablet along gravel rd., T. 92 N., R. 46 W.; near cor. secs. 2, 3, 10 and 11; 76 ft N., 20 ft E. and 2.3 ft lower than center of rd. at T-rd. N. and fence line S.; on the E. end of a 24-in. steel pipe culvert; a punched hole 1320.9

UE 10 C; 1.6 mi N. of tablet along gravel rd., T. 92 N., R. 46 W.; at quarter cor. between secs. 2 and 3; center of rd. at trail T-rd. E. 1361.1

UE 10 D; 2.1 mi N. of tablet along gravel rd., T. 92 and 93 N., R. 46 W.; at approx. cor. of secs. 2, 3, 34 and 35; 3 ft N., 34 ft E. and 0.1 ft higher than center of rd. at T-rd. W.; a rail spike in E. side of power pole projecting 6 inches above ground 1374.33

UE 10 E; 2.6 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; quarter cor. between secs. 34 and 35; center of rd. opposite T-fence W. 1370.9

LeMars, 4.5 mi W. of along Hwys. 3 and 5; thence 3.0 mi N. along gravel rd., 1.8 mi N. and 1.0 mi E. from Brunsville, T. 93 N., R. 46 W.; 662 ft S., 34 ft E. and 26.2 ft higher than center of crossroads, at approx. cor. secs. 26, 27, 34 and 35; 65 ft N. and 34 ft E. from center of rd. opposite T-fence W.; 1 ft N. of power pole; 1 ft W. of fence line, in a concrete post; a standard tablet stamped "11 WHV 1957" 1391 ft 1390.554

Reference mark; 684 ft N. of tablet; 22 ft N., 19 ft E., center of rd. at crossroads, on the E. end of a 24-in. concrete pipe culvert; a chiseled square 1362.92

UE 11 A; 0.5 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at quarter cor. between secs. 26 and 27; 27 ft E. and 2.7 ft lower than center of rd. opposite cross fences, a rail spike in W. side of fence post projecting 2 inches above ground 1388.65

UE 11 B; 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at approx. cor. secs. 22, 23, 26 and 27; 27 ft S., 20 ft W. and 1.5 ft lower than center of crossroads; on the W. end of a 24-in. steel pipe culvert; a punched hole 1389.1

UE 11 C; 1.5 mi N. of tablet along gravel rd.; T. 93 N., R. 46 W.; at quarter cor. between secs. 22 and 23; center of rd. opposite cross fences 1387.9

UE 11 D; 2.0 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at approx. cor. secs. 14, 15, 22 and 23; 38 ft S., 14 ft W. and 1.7 ft lower than center of crossroads; on the W. end of a 24-in. steel pipe culvert; a punched hole 1406.3

UE 11 E; 2.7 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; about 0.2 mi N. from quarter cor. between secs. 14 and 15; center of rd. at private T-rd. W. to farmhouse 1411.0

LeMars, 6.0 mi N. of along Hwy. 75 from intersection with Hwys. 3 and 5; thence 4.0 mi W. along gravel rd., T. 93 N., R. 46 W.; 33 ft N., 342 ft E. and 2.7 ft higher than center of crossroads; at approx. cor. secs. 10, 11, 14 and 15; 308 ft E. from fence corner at fences N.-E., 1 ft S. and 2 ft W. from T-fence N., in a concrete post; a standard tablet stamped "12 WHV 1957" 1408 ft 1408.257

Reference mark; 358 ft W. of tablet; 27 ft N., 16 ft W., center of rd. at crossroads; on the W. end of a 24-in. steel pipe culvert; a punched hole 1402.75

## LeMARS QUAD., 232

UE 12 A; 0.9 mi E. of tablet along gravel rd., T. 93 N., R. 46 W.; at cor. secs. 11, 12, 13 and 14; 42 ft S., 12 ft W. and 0.8 ft lower than center of crossroads, in center of W. concrete headwall of culvert, a chiseled square (7.8 ft above bottom of drain) 1311.95

UE 12 B; 1.4 mi E. of tablet along gravel rd., T. 93 N., R. 46 W.; at quarter cor. between secs. 12 and 13, center of rd. opposite cross fences 1318.2

UE 12 C; 1.9 mi E. of tablet along gravel rd., T. 93 N., R. 45 and 46 W.; at cor. secs. 7, 12, 13 and 18; 17 ft S., 28 ft W. and 3.9 ft lower than center of crossroads; on the S. end of a 36-in. steel pipe culvert; a punched hole 1279.7

LINE 6

Feet

NORTH ALONG NORTH PORTION OF EAST BORDER (by W. H. Veatch, 1957; Book CV 864)

IRETON QUAD., 233

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| "12 WHV 1957 1408" (previously described in line 5)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1408.257 |
| UE 12 D; 0.5 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at quarter cor. secs. 10 and 11; center of rd. opposite T-fence E.                                                                                                                                                                                                                                                                                                                                                       | 1398.9   |
| UE 12 E; 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at cor. secs. 2, 3, 10 and 11; 9 ft S., 163 ft E. and 1.6 ft lower than center of crossroads; in center of S. headwall of concrete bridge (10.2 ft above water level); a chiseled square                                                                                                                                                                                                                                 | 1379.43  |
| UE 12 F; 1.4 mi N. of tablet along gravel rd., center of wooden bridge over creek; copper nail and washer                                                                                                                                                                                                                                                                                                                                                                                   | 1383.53  |
| Strumble, 1.0 mi N. and 3.0 mi W. from; 1.0 mi N. and 3.0 mi E. from Craig, at the Plymouth and Sioux Co. line; T. 93 and 94 N., R. 46 W.; 198 ft N., 26 ft E. and 0.6 ft higher than center of crossroads, at approx. cor. secs. 2, 3, 34 and 35; 36 ft N., 26 ft E. from center of rd. at driveway W. to farmhouse, 3 ft N. of telephone pole; 1 ft W. of fence line, in a concrete post; a standard tablet stamped "23 WHV 1957 1407" (Reported not found, probably destroyed 10/67 GDS) | 1406.431 |
| Reference mark; 166 ft S. of tablet, 32 ft N., 12 ft E. from center of crossroads, on the E. end of a 24-in. steel pipe culvert; a punched hole                                                                                                                                                                                                                                                                                                                                             | 1403.96  |
| UE 23 A; 0.5 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; at quarter cor. between secs. 34 and 35; center of rd. opposite cross fences                                                                                                                                                                                                                                                                                                                                             | 1407.6   |
| UE 23 B; 1.0 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; cor. secs. 26, 27, 34 and 35; 38 ft N., 17 ft W. and 0.5 ft lower than center of crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square                                                                                                                                                                                                                                                          | 1418.88  |
| UE 23 C; 2.0 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; cor. secs. 22, 23, 26 and 27; 56 ft S., 16 ft W. and 2.8 ft lower than center of crossroads, on W. end of a 30-in steel pipe culvert; a punched hole                                                                                                                                                                                                                                                                     | 1364.3   |
| UE 23 D; 2.5 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; near quarter cor. between secs. 22 and 23; center of wooden bridge over creek, (5.9 ft above bottom of drain), a copper nail and washer                                                                                                                                                                                                                                                                                  | 1362.03  |
| UE 23 E; 3.0 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; at cor. secs. 14, 15, 22 and 23; 121 ft S. and 9 ft E. and 0.74 ft higher than center of crossroads, on the N. end of the E. headwall of concrete culvert; a chiseled square                                                                                                                                                                                                                                             | 1353.47  |
| Reference mark; 143 ft E. of tablet; 23 ft S., 32 ft E. from center of rd. opposite cross fences, in root on SW. side at group of five 8-in. cottonwood trees, a copper nail and washer                                                                                                                                                                                                                                                                                                     | 1381.97  |
| Chenhall Azimuth Mark; approx. 1.0 mi SW. of station, reached from station by going W. on rd. leading to station, 0.75 mi to crossroads, thence S. 0.75 mi to E. and W. fence line on W. side of rd., mark is approximately 0.15 mi S. of church house, 110 ft W. and 2.9 ft higher than center of rd. opposite cross fences, 1 ft N. of E.-W. fence; mark projects approx. 4 inches above ground                                                                                           | 1387.292 |
| UE 1404.8; 0.8 mi N. of Azimuth Mark; T. 94 N., R. 46 W.; at cor. secs. 10, 11, 14 and 15; 32 ft N., 32 ft W. and 0.9 ft higher than center of crossroads; a rail spike in S. side of power pole projecting 6 inches above ground                                                                                                                                                                                                                                                           | 1404.66  |

Ireton Quadrangle  
233 - Iowa

Line 6 Cont'd.IRETON QUAD., 233Feet

UE 1445.4; 1.4 mi N. of Azimuth Mark; T. 94 N., R. 46 W.; about 0.1 mi N. from quarter cor. between secs. 10 and 11; top of S. rail at center of N.-S. sec. line rd.; crossing the Chicago and North Western RR. 1445.3

UE 1445.0; 1.8 mi N. of Azimuth Mark; along gravel rd.; T. 94 N., R. 46 W.; at cor. secs. 2, 3, 10 and 11; 16 ft S., 37 ft N. and 2.8 ft lower than center of crossroads; on the S. end of a 24-in. steel pipe culvert; a punched hole 1444.9

UE 1427.3; 2.3 mi N. of Azimuth Mark along gravel rd., T. 94 N., R. 46 W.; at quarter cor. between secs. 2 and 3; center of rd. opposite cross fences 1427.2

Reference mark; 248 ft W. of tablet, 48 ft S., 18 ft E. from center of crossroads; on the E. end of a 24-in. concrete pipe culvert; a chiseled square 1405.31

"24 WHV 1957 1409" (previously described in line 4) 1409.315

LeMARS QUAD., 232

UE 24 A; 0.4 mi E. of tablet along State Hwy. 10; center of hwy. at T-rd. S. 1370.9

UE 24 B; 0.9 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 46 W.; cor. secs. 1, 2, 35 and 36; 48 ft S., 33 ft W. and 3.3 ft lower than center of hwy. at crossroads; a rail spike in N. side of telephone pole; projecting 6 inches above ground 1372.82

UE 24 C; 1.4 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 46 W.; at quarter cor. between secs. 1 and 36; center of hwy. opposite cross fences, copper nail and washer 1373.41