

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

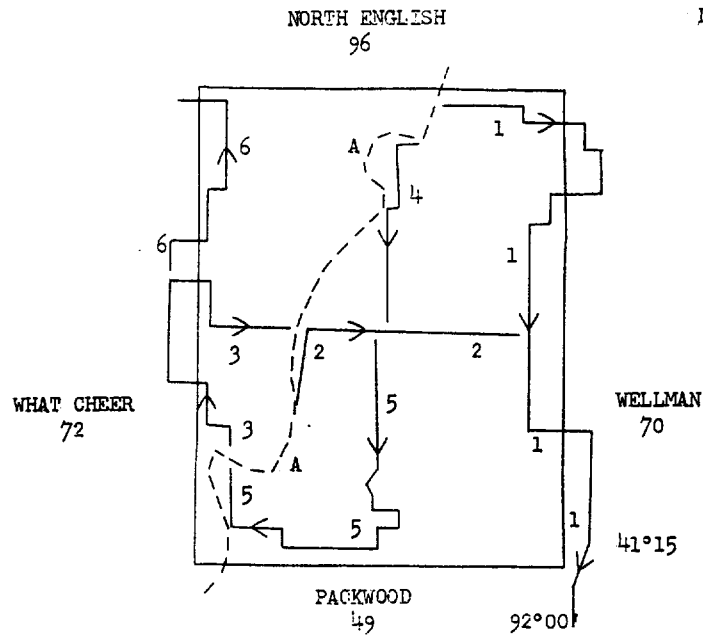
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SIGOURNEY QUADRANGLE
71 - IOWA
N4115-W9200/15
DIAGRAM NK 15-8
DES MOINES, IOWA

Keokuk County

Edition of 3/18/65

PR: MLC:vdc



USC&GS LEVELING
A. No. 410922

Feet

LINE 1

GENERALLY SOUTH ALONG EAST BORDER (D.W. Ephlin, 1964; CV 1774)

SIGOURNEY QUAD. - 71

- 1 2 0.0 North English, 1.6 mi SW. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the city hall at; 20 poles SW. of milepost 39, at the concrete overhead crossing of State Hwy. 149; in the face of the S. concrete pier, 12 ft NW. of the center of track; and 5 ft above the rail a USC&GS standard disk, stamped "B 86 1934" and set vertically 835.930
- 0.9 UE B 86 A, 0.9 mi E. of tablet; 37 ft S., 40 ft E. and 4.1 ft higher than T-drive N.; in a power pole; a 60 d spike nail; painted "UE 823.6" 823.62
- 3 2.0 UE, B 86 B, 2.0 mi E. of tablet; 40 ft S. of center of gravel rd. at low point between two hills and 2.6 ft lower than rd. in a power pole; a 60 d spike nail painted "UE 809.0" 808.98
- 4 3.0 North English, 1.5 mi S. and 1.7 mi E. of; T. 77 N., R. 10 W., near W. sixteenth cor. between secs. 5 and 8; 33 ft S., 228 ft W. of T-drive S.; to farmhouse; 112 ft NW. of NW. cor. of large white house; 11 ft N. of a fence corner post in a concrete post; a standard tablet stamped "1 DWE 1964" painted "EM 831.9" 831.946
- 3.0 Reference mark, 80 ft E. of tablet; in a power pole; a 60 d spike nail; painted "RM" 833.34
- 5 4.0 UE 1 DWE A, 1.0 mi E. of tablet; 38 ft N., 48 ft W. and 2.9 ft higher than center of E.-W. gravel rd. at W. edge of shelter grove around farmhouse; in a power pole; a 60 d spike nail painted "UE 826.5" 826.54

71 D

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 1 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
1 7 5.0 UE 1 DWE B, 1.5 mi E. and 0.5 mi S. of tablet; 22 ft N., 51 ft E. and 2.5 ft lower than T-rd. E.; in a power pole; a 60 d spike nail; painted "UE 789.9"		789.98
	<u>WELLMAN QUAD. - 70</u>	
8 6.1 North English, 2.1 mi S. and 4.2 mi E. of; 1.9 mi N. and 0.3 mi W. of Kinross; T. 77 N., R. 10 W., in NW $\frac{1}{4}$ of SE $\frac{1}{4}$ sec. 10, 15 ft N., 46 ft W. and 4.6 ft higher than center of N.-S. gravel rd. at field entrance W., 6 ft E. of a power pole; in a concrete post; a standard tablet stamped "2 DWE 1964" painted "BM 797.7"		797.798
9 6.9 Reference mark, 30 ft SE. of tablet; in the S. end of a 12-in. metal culvert; a punched hole		791.76
10 7.2 UE 2 DWE A, 1.0 mi S. of tablet; 32 ft SW. of center of gravel rd. near center of bend in rd. and 8.3 ft lower than centerline; on the SW. end of a concrete box culvert; a chiseled square; painted "UE 743.9"		743.98
11 8.1 UE 2 DWE B, 2.0 mi S. of tablet; 46 ft N., 17 ft E. and 0.9 ft lower than crossroads; on the E. end of an 18-in. concrete culvert; a chiseled square; painted "UE 822.4"		822.44
	<u>SIGOURNEY QUAD. - 71</u>	
12 8.9 UE 2 DWE C, 2.0 mi S. and 0.75 mi W. of tablet; 38 ft S., 27 ft E. and 2.4 ft lower than center of T-rd. S.; in a power pole; a 60 d spike nail; painted "UE 821.2"		821.31
13 9.4 Kinross, 0.5 mi S. and 0.7 mi W. of; T. 77 N., R. 10 W., near W. sixteenth cor. between secs. 22 and 27; 16 ft S., 26 ft E. and 0.1 ft lower than T-rd. W.; at crest of hill; 4 ft SSW. of a power pole; in a concrete post; a standard tablet stamped "3 DWE 1964" painted "BM 824.9"		824.993
9.4 Reference mark, 69 ft S. of tablet; in a power pole; a 60 d spike nail		824.75
14 10.4 UE 3 DWE A, 1.0 mi S. of tablet; 12 ft S., 28 ft W. and 2.7 ft lower than center of N.-S. gravel rd. at field entrances E. and W.; in the S. end of a 12-in. concrete culvert; a chiseled square; painted "UE 827.7"		827.81
15 11.4 UE, 3 DWE B, 2.0 mi S. of tablet; 15 ft N., 26 ft E. and 2.8 ft lower than center of N.-S. gravel rd. at field entrance E.; on the N. end of a 12-in. concrete culvert; a chiseled square; painted "UE 823.4"		823.53
16 12.3 UE 3 DWE C, 2.8 mi S. of tablet; 55 ft S., 33 ft E. and 1.4 ft lower than center of N.-S. gravel rd. at crop line E. in a power pole; a 60 d spike nail painted "UE 820.2"		820.30
17 12.6 Kinross, 3.5 mi S. and 1.0 mi W. of; 3.5 mi N. and 2.5 mi W. of Keota; T. 76 N., R. 10 W., near cor. secs. 3, 4, 9 and 10, 41 ft N., 29 ft E. and 0.7 ft lower than crossroads; 6 ft NW. of a power pole; a concrete post; standard tablet stamped "4 DWE 1961" painted "BM 791.1"		791.222
12.6 Reference mark, 51 ft W. of tablet; on the NW. headwall of a concrete box culvert; a chiseled square		792.57
18 13.6 UE 4 DWE A, 1.0 mi S. of tablet; 22 ft N., 29 ft E. and lower than crossroads on the N. end of a 12-in. concrete culvert; a chiseled square; painted "UE 798.6"		798.76
19 14.6 UE 4 DWE B, 2.0 mi S. of tablet; 32 ft N., 44 ft E. and 5.0 ft lower than crossroads; in a power pole; a 60 d spike nail; painted "UE 801.1"		801.22

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 1 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
1 21 15.6	Keota, 0.5 mi N. and 2.5 mi W. of; T. 76 N., R. 10 W., near cor. secs. 21, 22, 27 and 28; 47 ft S., 29 ft E. and 0.7 ft lower than crossroads; 3 ft W. of a fence in a concrete post; a standard tablet stamped "5 DWE 1964" painted "BM 763.0"	763.169
15.6	Reference mark, 80 ft N. of tablet; in the E. end of an 18-in. metal culvert; a punched hole	761.65
24 16.7	UE 5 DWE A, 1.0 mi S. of tablet; 35 ft S., 44 ft E. and 1.7 ft higher than crossroads; in a power pole; a 60 d spike nail painted "UE 761.5"	761.62
26 17.7	UE 5 DWE B, 2.1 mi S. of tablet; 34 ft N., 184 ft E. and 6.7 ft higher than T-rd. N.; in a power pole; a 60 d spike nail painted "UE 751.1"	751.21
<u>WELLMAN QUAD. - 70</u>		
27 18.7	Keota, 1.5 mi S. and 1.5 mi W. of; Tps. 75 and 76 N., R. 10 W., near cor. secs. 2, 3, 34 and 35; 30 ft S., 36 ft E. and 0.3 ft lower than Trd. S.; (offset crossroads) 7 ft E. of a power pole; in a concrete post; a standard tablet stamped "6 DWE 1964" painted BM 778.5	778.616
18.7	Reference mark, 85 ft NE. of tablet; in a power pole; a 60 d spike nail	781.88
28 19.7	UE 6 DWE A, 1.0 mi E. of tablet; 91 ft S., 41 ft W. and 4.6 ft lower than crossroads; on the W. end of a 24-in. concrete culvert; a chiseled square painted "UE 781.1"	781.29
29 20.6	UE 6 DWE B, 1.0 mi E. and 0.9 mi S. of tablet; 32 ft N., 46 ft W. and 2.9 ft lower than crossroads; on N. end of a 24-in. concrete culvert; a chiseled square painted "UE 781.0"	781.15
30 21.7	Keota, 3.5 mi S. and 0.5 mi W. of; T. 75 N., R. 10 W., near cor. secs. 11, 12, 13 and 14; 39 ft N., 60 ft W. and 3.3 ft lower than T-rd. W.; 6 ft S. of a power pole; in a concrete post; a standard tablet stamped "7 DWE 1964" RESET" painted "BM 766.7"	766.886
21.7	Reference mark, 501 ft SSE. of tablet; on the S. end of an 18-in. concrete culvert; a chiseled square	761.97
31 22.7	UE 7 DWE A, 0.9 mi S. of tablet; 30 ft S., 41 ft W. and 2.1 ft lower than crossroads; on the S. end of a 24-in. concrete culvert; a chiseled square painted "UE 771.6"	771.81
32 23.7	UE 7 DWE B, 1.9 mi S. of tablet; 26 ft S., 46 ft W. and 2.4 ft lower than T-rd. W.; on the S. end of a 24-in. concrete culvert; a chiseled square painted "UE 759.3"	759.42
33 24.7	Keota, 6.4 mi S. and 0.5 mi W. of; 5.6 mi N. and 1.5 mi E. of Richland; T. 75 N., R. 10 W., approx. 0.1 mi N. of cor. secs. 25, 26, 35 and 36; 9 ft N., 62 ft W. and 1.1 ft lower than T-drive E. to farmhouse; 5 ft NW. of a power pole; in a concrete post; a standard tablet stamped "8 DWE 1964" painted "BM 708.0"	708.205
24.7	Reference mark, 109 ft E. of tablet; in S. end of a concrete culvert; a chiseled square	705.10
34 25.8	UE 9 DWE A, 1.1 mi S. of tablet; atop the NE. end of the NW. curb of the large steel and concrete bridge over the Skunk River; a chiseled square; painted "UE 640.6"	640.72

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 1 (Cont'd)</u>		<u>PLEASANT PLAIN QUAD. - 48</u>	<u>Feet</u>
1 35 26.8	UE 8 DWE B, 2.1 mi S. of tablet; 18 ft S., 44 ft W. and 3.5 ft lower than T-drive W. to farmhouse; in the S. end of an 18-in. concrete culvert; a chiseled square; painted "UE 681.9"		682.12
37 27.9	Reference mark, 137 ft N. of tablet; in S. end of a 16-in. concrete culvert; a chiseled square		724.80
27.9	Richland, 2.7 mi N. and 0.7 mi W. of; T. 74 N., R. 10 W., approx. 0.2 mi NE. of cor. secs. 10, 11, 14 and 15; 154 ft S., 60 ft W. and 5.2 ft higher than T-drive W.; to farmhouse; 6 ft NW. of a power pole; in a concrete post; a standard tablet stamped "9 DWE 1964" painted "BM 732.1"		732.326
38 28.9	UE 9 DWE A, 1.0 mi S. of tablet; 14 ft SW. along Hwy. 77 from field entrance NW.; 48 ft NW. normal to hwy.; and 4.2 ft lower than hwy.; in the SW. end of an 18-in. concrete culvert; a chiseled square; painted "UE 734.6"		734.83
39 29.9	Richland, 0.25 mi NE. along the C., M. St. P. & P. RR. from; and in the S. end of the W. abutment of a bridge; a USC&GS standard disk stamped "P 6 1930"		664.739

LINE 2

NORTH THENCE EAST THRU CENTER OF QUAD. (D. W. Ephlin, 1964; CV 1774)

SIGOURNEY QUAD. - 71

1 41 0.0	Sigourney at; at the Co. courthouse, in the W. wall; 8 in. S. of the NW. corner of the bldg., in a limestone block and 3 ft above the ground; a USC&GS standard disk, stamped "L 86 1934" and set vertically		797.997
0.5	UE L 86 A, 0.5 mi N. of tablet; 99 ft S., 16 ft W. and 0.9 ft higher than RR. crossing; (R.I. main Track) in a power pole; a 60 d spike nail; painted "UE 763.1"		763.11
42 1.2	UE L 86 B., 1.3 mi N. of tablet; 47 ft S., 13 ft W. and 0.8 ft higher than center of concrete bridge; near the S. end of the W. curb; a chiseled square; painted "UE 700.7"		700.68
43 1.8	UE L 86 C, 1.8 mi N. of tablet; 49 ft N., 32 ft E. and 1.6 ft lower than T-rd. NE.; in a power pole; a 60 d spike nail; painted "UE 767.6"		767.55
44 2.3	UE L 86 D, 2.3 mi N. of tablet; 39 ft W. of center of gravel rd. at the S. point of curve, in a power pole; a 60 d spike nail; painted "UE 732.4"		732.42
46 3.4	Sigourney, 1.9 mi N. and 1.1 mi E. of; T. 76 N., Rs. 11 and 12 W.; near cor. secs. 19, 24, 25 and 30; 315 ft S., 31 ft E. and 7.5 ft lower than crossroads; 2 ft NW. of fence corner post; in a concrete post; a standard tablet stamped "17 DWE 1964" painted "BM 788.4"		788.355
3.4	Referencemark, 76 ft N. of tablet; in the S. end of a 12-in. metal culvert; a punched hole		790.49
48 4.5	UE 17 DWE A, 1.1 mi E. of tablet; 21 ft S., 29 ft E. and 3.3 ft higher than crossroads; in a power pole; a 60 d spike nail; painted "UE 774.5"		774.45
50 5.4	UE 17 DWE B, 2.1 mi E. of tablet; approx. 150 ft W. of rd. junction; 11 ft S. of center of rd. in a power pole; a 60 d spike nail; painted "UE 767.8"		767.83
52 6.5	Sigourney, 2.0 mi N. and 4.1 mi E. of; 0.5 mi N. and 3.5 mi W. of Harper; T. 76 N., R. 11 W., near cor. secs. 21, 22, 27 and 28; 39 ft N., 43 ft W. and 5.6 ft higher than T-rd. S.; 4 ft W. of a power pole; in a concrete post; standard tablet stamped "18 DWE 1964" painted "BM 781.1"		781.081

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 2 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
1 52 6.5	Reference mark, 132 ft SW. of tablet; in a power pole; a 60 d spike nail	784.99
54 7.5	UE 18 DWE A, 1.0 mi E. of tablet; 28 ft N., 21 ft E. and 0.4 ft lower than T-rd. N.; in the E. end of an 18-in. metal culvert; a punched hole; painted "UE 710.1"	710.14
55 8.5	UE 18 DWE B, 2.0 mi E. of tablet; 19 ft N., 25 ft W. and 2.9 ft lower than crossroads; in the N. end of an 18-in. metal culvert; a punched hole; painted "UE 804.4"	804.38
57 9.5	Harper, 0.5 mi N. and 0.5 mi W. of; T. 76 N., Rs. 10 and 11 W.; near cor. sec. 19, 24, 25 and 30; 30 ft S., 41 ft W. and 1.7 ft lower than crossroads; 3 ft NE. of a fence corner post; in a concrete post; a standard tablet stamped "19 DWE 1964" painted "BM 786.8"	786.743
9.5	Reference mark, 97 ft NE. of tablet; in a power pole; a 60 d spike nail	788.81
58 10.6	UE 19 DWE A, 1.0 mi E. of tablet; 58 ft S., 77 ft W. and 2.4 ft lower than crossroads; in a power pole; a 60 d spike nail; painted "UE 810.9"	810.82
59 11.6	UE 19 DWE B, 2.0 mi E. of tablet; 38 ft S., 47 ft E. and 0.2 ft lower than T-rd. S.; (offset crossroads) in a power pole; a 60 d spike nail; painted "UE 808.0"	808.01
60 12.6	"5 DWE 1964" (described in Line 1)	763.169

LINE 3

NORTH THENCE EAST FROM SOUTHWEST CORNER (D.W. Ephlin, 1964; CV 1774)

SIGOURNEY QUAD. - 71

1 62 0.0	USC&GS "P 86 1934" Hayesville, 1.4 mi NE. along the C. M. St. P. & P. RR. from the station at; 8 poles NE. of milepost 19, at a public rd. crossing, 40 ft N. of the center of track; 27 ft N. E. of the center of rd., 2 ft E. and 10 ft S. of right-of-way fence corner, and 2 ft lower than rail; a USC&GS standard disk stamped "P 86 1934" set in top of a concrete post.	761.724
0.9	UE P 86 A, 0.9 mi NW. of tablet; 22 ft N., 26 ft W. and 1.8 ft higher than T-drive W. to farmhouse; in the N. end of a 16-in. metal culvert; a punched hole; painted "UE 725.1"	725.08
63 1.8	UE P 86 B, 1.8 mi NW. of tablet; 30 ft N., 31 ft W. and 1.1 ft lower than T-rd. S.; in a power pole; a 60 d spike nail; painted "UE 702.2"	702.23

WHAT CHEER QUAD. - 72

64 2.7	UE P 86 C, 2.7 mi NW. of tablet; 55 ft S., 70 ft E. and 4.4 ft higher than center of N.-S. gravel rd. at field entrance E.; in twin oak trees; a 60 d spike nail; painted UE 750.6	750.58
65 3.1	Sigourney, 1.7 mi S. and 2.75 mi W. of; T. 75 N., R. 12 W., approx. 0.1 mi S. of quarter cor. between secs. 8 and 9; 70 ft N., 19 ft E. and 1.9 ft higher than center of N.-S. gravel rd. at RR. crossing; 6 ft NW. of a power pole; in a concrete post; a standard tablet "20 DWE 1964" painted "BM 688.1"	688.105
3.1	Reference mark, 79 ft S. of tablet; in the S. end of an 18-in. metal culvert; a punched hole	683.04
66 3.8	UE 20 DWE A, 0.7 mi N. of tablet; 30 ft S., 36 ft W. and 2.2 ft lower than crossroads; in power pole; a 60 d spike nail; painted "UE 752.8"	752.82

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 3 (Cont'd)</u>		<u>WHAT CHEER QUAD. - 72</u>	<u>Feet</u>
1 68 4.8	UE 20 DWE B, 1.7 mi N. of tablet; 138 ft S., 31 ft E. and 2.7 ft lower than crossroads; in a power pole; a 60 d spike nail; painted "UE 760.0"		759.97
69 5.8	UE 20 DWE C, 2.7 mi N. of tablet; 59 ft S., 29 ft W. and 1.1 ft lower than T-rd. S.; (offset crossroads) in the S. end of a metal culvert; a punched hole; painted "UE 777.1"		777.15
70 6.2	Sigourney, 1.4 mi N. and 2.75 mi W. of; T. 76 N., R. 12 W., approx. 0.1 mi S. of quarter cor. between secs. 28 and 29; 29 ft N., 27 ft E. and 0.8 ft lower than center of N.-S. gravel rd. at T-drive W. to farmhouse; 5 ft N. of a power pole; in a concrete post; a standard tablet stamped "21 DWE 1964" painted "EM 783.9"		783.911
6.2	Reference mark, 84 ft NW. of tablet; in N. end of a 12-in. metal culvert; a punched hole		778.78
72 6.9	UE 21 DWE A, 0.8 mi N. of tablet; 18 ft N., 16 ft E. and 0.3 ft higher than center of N.-S. gravel rd. at T-drive E. to farmhouse; in the N. end of a metal culvert; a punched hole; painted "UE 730.8"		730.84
7.5	UE 21 DWE B, 1.4 mi N. of tablet; 27 ft S., 29 ft E. and 1.3 ft higher than T-rd. E.; in a power pole; a 60 d spike nail; painted "UE 737.2"		737.23
<u>SIGOURNEY QUAD. - 71</u>			
73 8.3	UE 21 DWE C, 2.1 mi NE. of tablet; 36 ft N., 38 ft W. and 2.4 ft higher than T-rd. N.; in a power pole; a 60 d spike nail; painted "UE 782.8"		782.81
74 9.1	UE 21 DWE D, 2.8 mi NE. of tablet; 19 ft S., 23 ft E. and 2.4 ft lower than T-rd. E.; on the S. end of a concrete culvert; a chiseled square; painted "UE 770.1"		770.16
75 9.7	Sigourney, 2.3 mi N. and 1.5 mi W. of; T. 76 N., R. 12 W., in NE ¹ / ₄ SE ¹ / ₄ of sec. 22, 33 ft N., 191 ft E. of T-drive N. to farmhouse; 4 ft S. of a fence corner post in a concrete post; a standard tablet stamped "22 DWE 1964" painted "EM 807.0"		807.048
9.7	Reference mark, 139 ft SE. of tablet; in a power pole; a 60 d spike nail		807.28
76 10.4	UE 22 DWE A, 0.7 mi E. of tablet; 67 ft N., 34 ft W. and 5.3 ft lower than center of Co. Rd. "H" at E-rd. SW.; on the SW. end of a concrete culvert; a chiseled square; painted "UE 778.1"		778.17
77 11.1	UE 22 DWE B, 1.4 mi E. of tablet; 40 ft N., 59 ft W. and 4.7 ft lower than T-rd. W.; on the W. end of a concrete culvert; a chiseled square; painted "UE 708.7"		708.77
2 42 11.5	UE "L 86 C" (described in Line 2)		767.55

LINE 4

<u>GENERALLY SOUTH THRU CENTER (D.W. Ephlin, 1964; CV 1774)</u>		<u>SIGOURNEY QUAD. - 71</u>	
2 2 0.0	North English, 3.3 mi SW. along the C. M. St. P. & P. RR. from the city hall at; 11 poles SW. of milepost 37, 4 poles SW. of public rd. crossing, near end of a curve; 44 ft E. of the center of track; 9 ft E. of a telegraph pole, 1 ft W. of right-of-way fence and level with rail; a USC&GS standard disk stamped "C 86 1934" set in top of a concrete post		743.512
0.1	UE, C. 86 A, 0.15mi N. of tablet; center of E.-W. gravel rd. at RR. crossing; painted "UE centerline 746.3"		746.31

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 4 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
2 3 1.7 UE 86 E, 1.1 mi. W. of tablet; 30 ft N., 30 ft W. and 14.4 ft higher than T-rd. E.; in a power pole; a 60 d spike nail; painted "UE 805.9"		805.88
5 2.0 UE 86 G, 1.2 mi. W. and 0.7 mi. S. of tablet; 50 ft N., 50 ft E. and 3.5 ft higher than T-rd. E.; in a 12-in. highway tree; a 60 d spike nail; painted "UE 833.1"		833.10
7 3.0 South English, 1.5 mi. W. of; E. 77 N., R. 11 W., near W. sixteenth cor. between secs. 22 and 27; 31 ft S., 250 ft W. and 0.5 ft higher than T-rd. N.; 31 ft S. and 14 ft W. of E-drive S. to barn yard; 4 ft E. of a power pole; in a concrete post; a standard tablet stamped "10 DWE 1964" painted "EM 847.9"		847.856
3.0 Reference mark, 104 ft NE. of tablet; in the W. end of a 14-in. metal culvert; a punched hole		845.34
8 3.9 UE 10 DWE A, 0.9 mi. S. of tablet; 24 ft W. of center of N.-S. dirt rd. on the W. end of a concrete box culvert; a chiseled square; painted "UE 800.1"		800.07
10 5.1 UE 10 DWE B, 2.1 mi. S. of tablet; at point of curve in rd.; 39 ft E. of center of N.-S. gravel rd.; in a power pole; a 60 d spike nail; painted "UE 838.3"		838.20
11 5.7 South English, 2.4 mi. S. and 1.4 mi. W. of; E. 76 N., R. 11 W., approx. 0.1 mi. N. of quarter cor. between secs. 3 and 4; 18 ft N., 33 ft E. and 0.1 ft higher than E-drive S.; to farmhouse; 4 ft W. of a fence corner post; in a concrete post a standard tablet stamped "11 DWE 1964" painted "EM 814.3"		814.877
5.7 Reference mark, 214 ft SW. of tablet; in power pole; a 60 d spike nail		812.90
12 6.3 UE 11 DWE A, 0.7 mi. S. of tablet; 20 ft N., 11 ft W. and 0.8 ft higher than center of concrete bridge atop the W. curb; a chiseled square; painted "UE 742.9"		742.41
13 7.2 UE 11 DWE B, 1.5 mi. S. of tablet; 37 ft E., 33 ft W. and 1.3 ft higher than T-rd. E.; in a power pole; a 60 d spike nail; painted "UE 790.0"		789.92
14 8.2 UE 11 DWE C, 2.5 mi. S. of tablet; 34 ft N., 34 ft W. and 1.8 ft lower than center of N.-S. gravel rd. at field entrance E.; in a power pole; a 60 d spike nail		767.96
15 9.2 "18 DWE 1964" (described in Line 2)		781.081

LINE 5

SOUTH, WEST CORNER NORTH FROM NEAR CORNER (D.W. Spahn, 1964; UV 1774)

SIGOURNEY QUAD. - 71

2 18 0.0 "UE 17 DWE B" (described in Line 2)		767.833
1.0 UE 17 DWE K, 2.1 mi. E. and 1.0 mi. S. of tablet; 19 ft N., 31 ft W. and 1.3 ft lower than crossroads; on the N. end of a 16-in. concrete culvert; a chiseled square; painted "UE 785.4"		765.41
19 1.3 Sigourney, 0.7 mi. N. and 3.25 mi. W. of; E. 76 N., R. 11 W., near N. sixteenth cor. between secs. 32 and 33; 53 ft N., 34 ft W. and 2.6 ft lower than T-rd. W.; 1 ft W. of a fence; 3 ft W. of a power pole; in a concrete post; standard tablet stamped "12 DWE 1964" painted "730.0"		720.026
1.3 Reference mark, 31 ft S. of tablet; in the E. end of a 24-in. metal culvert; a punched hole		718.69

SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 5 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
2 20 2.0 UE 12 DWE A, 0.8 mi S. of tablet; 30 ft S., 25 ft E. and 2.0 ft lower than T-rd. S.; (offset crossroads) in power pole; a 60 d spike nail; painted "UE 740.1"		740.03
22 2.9 UE 12 DWE B, 1.7 mi S. of tablet; 36 ft S., 33 ft E. and 0.5 ft higher than crossroads; in a power pole; a 60 d spike nail; painted "UE 725.0"		724.95
23 4.0 Sigourney, 2.0 mi S. and 3.25 mi E. of; T. 75 N., R. 11 W., near cor. secs. 8, 9, 16 and 17; 34 ft N., 26 ft W. and 2.5 ft lower than T-rd. N.; 4 ft E. of a power pole; in a concrete post; standard tablet stamped "13 DWE 1964" painted "BM 745.4"		745.377
4.0 Reference mark, 66 ft SE. of tablet; in E. end of a 12-in. metal culvert; a punched hole		747.31
24 4.8 UE 13 DWE A, 0.9 mi SSW. of tablet; near end of dirt rd., 7 ft NE. of center of rd. at drain crossing; in the NE. end of a 36-in. metal culvert; a punched hole; painted "UE 657.4"		657.33
26 6.0 UE 13 DWE B, 2.0 mi S. of tablet; at bend in gravel rd. 9 ft NW. along rd. from field entrance NE., 33 ft NE normal to rd. in the NW. end of a 24-in. metal culvert; a punched hole; painted "UE 693.5"		693.42
> 27 6.8 Sigourney, 4.0 mi S. and 3.5 mi E. of; T. 75 N., R. 11 W., near W. sixteenth cor. between secs. 21 and 28; 48 ft N., 12 ft E. and 1.8 ft lower than T-rd. N., 35 ft SSW. of 36-in. elm tree; 2 ft W. of a fence; in a concrete post; a standard tablet stamped "14 DWE 1964" painted "BM 670.2"		670.180
6.8 Reference mark, 167 ft E. of tablet; on the N. end of a large concrete box culvert; a chiseled square		670.04
29 7.7 UE 14 DWE A, 0.8 mi SE. of tablet; 20 ft S., 23 ft E. and 2.2 ft lower than T-rd. W.; in the S. end of a 12-in. metal culvert; a punched hole; painted "UE 748.4"		748.31
30 8.4 UE 14 DWE B, 1.5 mi S. of tablet; 50 ft S., 23 ft W. and 1.2 ft lower than T-rd. S.; on the N. end of an 18-in. concrete culvert; a chiseled square; painted "UE 757.1"		757.02
31 9.1 UE 14 DWE C, 2.3 mi SW. of tablet; 18 ft S., 14 ft W. and 3.2 ft lower than T-drive S. to farmhouse, on the W. end of a 12-in. concrete culvert; a chiseled square; painted "UE 681.6"		681.56
32 9.9 Sigourney, 5.5 mi S. and 2.75 mi E. of; T. 75 N., R. 11 W., near center of sec. 32; 33 ft N., 35 ft E. and 1.2 ft lower than crossroads; 3 ft S. of a fence corner post; 5 ft S. of a power pole; in a concrete post a standard tablet stamped "15 DWE 1964" painted "BM 656.4"		656.346
9.9 Reference mark, 76 ft SW. of tablet; on the S. end of a 36-in. concrete culvert; a chiseled square		656.45
34 10.9 UE, 15 DWE A, 1.0 mi W. of tablet; 57 ft N., 61 ft W. and 4.4 ft lower than T-rd. N.; in the SW. end of a metal culvert; a punched hole; painted "UE 716.6"		716.52
35 11.9 UE 15 DWE B, 2.0 mi W. of tablet; 42 ft N., 6 ft E. and 1.7 ft higher than T-rd. S.; in a power pole; a 60 d spike nail; painted "UE 749.8"		749.70
36 12.7 UE 15 DWE C, 2.8 mi W. of tablet; 40 ft N., 41 ft E. and 1.5 ft lower than T-rd. E.; in a power pole; a 60 d spike nail; painted "UE 734.4"		734.32

<u>LINE 5 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
2 37 13.2 Sigourney, 5.0 mi S. of; T. 75 N., R. 12 W., near E. sixteenth cor. between secs. 26 and 35; 228 ft S., 47 ft W. and 1.3 ft lower than crossroads; (paved Rds. N.-S. and W.; gravel rd. E.) 5 ft N. of a power pole; 3 ft E. of a fence, in a concrete post; a standard tablet stamped "16 DWE 1964" painted "EM 791.4"		791.322
13.2 Referencemark, 182 ft N. of tablet; in a power pole; a 60 d spike nail		791.83
38 14.2 UE 16 DWE A, 1.1 mi W. of tablet; 35 ft N., 213 ft E. and 4.7 ft lower than T-drive N. to farmhouse; in a power pole; a 60 d spike nail; painted "UE 781.5"		781.43
39 15.1 UE 16 DWE B, 2.0 mi WNW. of tablet; 15 ft N., 25 ft W. and 2.3 ft lower than T-drive W.; on the N. end of a 12-in. concrete culvert; a chiseled square; painted "UE 785.2"		785.07
40 16.1 USC&GS "P 86 1934" (described in Line 3)		761.724

LINE 6

NORTH FROM NEAR CENTER OF WEST BORDER (D.W. Ephlin, 1964; CV 1774)

WHAT CHEER QUAD. - 72

3 2 0.0 "UE 21 DWE B" (described in Line 3)		737.23
	<u>SIGOURNEY QUAD. - 71</u>	
3 0.9 UE 21 DWE X, 2.3 mi N. of tablet; 19 ft S., 33 ft W. and 5.6 ft lower than T rd. W., in the S. end of a metal culvert; a punched hole; painted "UE 746.5"		746.51
5 2.0 UE 21 DWE Y, 3.4 mi N. of tablet; 33 ft N., 45 ft E. and 0.5 ft lower than T-rd. N.; in a power pole; a 60 d spike nail; painted "UE 819.2"		819.28
6 3.0 Sigourney, 5.0 mi N. and 2.25 mi W. of; T. 76 N., R. 12 W., near quarter cor. between secs. 4 and 9; 32 ft N., 33 ft E. and 0.2 ft higher than T-rd. W.; 4 ft W. of a fence 3 ft SW. of a power pole; in a concrete post; a standard tablet stamped "23 DWE 1964" painted "EM 847.3"		847.322
3.0 Reference mark, 91 ft SW. of tablet; in a power pole; a 60 d spike nail		845.01
7 4.0 UE, 23 DWE A, 1.0 mi N. of tablet; 39 ft S., 30 ft E. and 3.2 ft lower than T-rd. S.; in the E. end of a metal culvert; a punched hole; painted "UE 838.5"		838.55
8 4.5 UE, 23 DWE E, 1.5 mi N. of tablet; the center of E.-W. gravel rd. at T-rd. S.; (offset crossroads) painted "UE centerline 845.7"		845.73
10 5.1 UE 23 DWE C, 2.0 mi N. of tablet; 15 ft S., 34 ft W. and 0.8 ft lower than center of N.-S. gravel rd. at T-drive W. to abandoned farmhouse in a power pole; a 60 d spike nail; painted "UE 851.7"		851.76
11 6.1 Keswick, 0.5 mi S. of; T. 77 N., R. 21 W., near quarter cor. between secs. 27 and 28; 27 ft S., 58 ft E. and 1.8 ft lower than center of N.-S. blacktop rd. at field entrance E.; 4 ft N. of a power pole; in a concrete post; a standard tablet stamped "24 DWE 1964" painted "EM 870.4"		870.412
6.1 Reference mark, 172 ft N. of tablet; in a power pole; a 60 d spike nail		870.54
12 7.1 UE 24 DWE A, 1.0 mi N. of tablet; 33 ft S., 53 ft E. and 0.9 ft higher than T-drive E. to farmhouse; in a power pole; a 60 d spike nail; painted "UE 856.8"		856.79

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 6 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
3 13 8.1 UE 24 DWE B, 2.0 mi N. of tablet; 77 ft S., 42 ft W. and 0.7 ft higher than T-drive W. to farmhouse; in a power pole; a 60 d spike nail; painted "UE 821.6"		821.56
14 9.2 Keswick, 2.6 mi N. of; T. 77 N., R. 12 W., approx. 0.1 mi N. of quarter cor. between secs. 9 and 10; 98 ft N., 52 ft W. and 1.3 ft higher than center of N.-S. gravel rd. at T-drive W. to abandoned farmhouse; 33 ft NE. of NE. corner of house; 4 ft NE. of fence corner post; in a concrete post; a standard tablet stamped "25 DWE 1964" painted "EM 887.9"		887.910
9.2 Reference mark, 162 ft NE. of tablet; in a power pole; a 60 d spike nail		886.26
15 9.5 UE 25 DWE A, 0.3 mi N. of tablet; 27 ft N., 42 ft E. and 2.3 ft lower than T-rd. E.; (offset crossroads) in the N. end of a metal culvert; a punched hole; painted "UE 885.3"		885.35

WHAT CHEER QUAD. - 72

16 10.6 UE 25 DWE B, 0.3 mi N. and 1.0 mi W. of tablet; 22 ft N., 28 ft W. and 1.4 ft lower than crossroads; on the N. end of a concrete culvert; a chiseled square; painted "UE 879.7"	879.72
17 10.8 Keswick, 3.0 mi N. and 1.25 mi W. of; T. 77 N., R. 12 W., near SW. cor. SE $\frac{1}{4}$ sec. 5; 39 ft N., 105 ft E. and 5.3 ft higher than center of rd. at T-drive S.; 1 ft S. of E.-W. fence and a metal witness post; a standard tablet stamped "ET 15 DHB 1964" set in a concrete post; flush with ground	892.512
10.8 Reference mark, 135 ft SW. of tablet; on the W. end of a concrete culvert; a chiseled square	888.62

LINE 7

WEST THRU SOUTHEAST PORTION OF QUAD. (D. W. Ephlin, 1964; GV 1774)

NOTE: Leveling performed by Fourth order methods. No bench marks established and line is not shown on diagram.

WELLMAN QUAD. - 70

5 2 0.0 "UE 7 DWE B" (described in Line 1)	759.42
0.7 T. 75 N., R. 10 W., near S. sixteenth cor. between secs. 25 and 26; center of Hwy. 77 at crossroads; painted "centerline 735.3"	735.4
3 1.4 UE, 0.7 mi W. of Hwy. 77, T. 75 N., R. 10 W., near center of SW $\frac{1}{4}$ sec. 26, center of E.-W. gravel rd. at drain crossing; painted "centerline 677.3"	677.4

SIGOURNEY QUAD. - 71

4 2.3 T. 75 N., R. 10 W., approx. 0.1 mi N. of quarter cor. between secs. 27 and 34, the center of E.-W. gravel rd. at field entrance S.; painted "centerline 653.3"	653.4
5 3.0 T. 75 N., R. 10 W., near E. sixteenth cor. between secs. 28 and 33, center of E.-W. gravel rd. at fence line S.; painted "centerline 644.1"	644.1
6 4.0 0.4 mi W. of T-rd. W.; T. 75 N., R. 10 W. approx. 0.2 mi NW. of quarter cor. between secs. 32 and 33; 39 ft N. of center of E.-W. dirt rd. in a power pole; a 60 d spike nail; painted "UE 637.8"	637.80
7 5.0 T. 75 N., R. 10 W., near W. sixteenth cor. between secs. 29 and 32; center of N.-S. gravel rd. at T-rd. W.; painted "centerline 649.1"	649.0

<u>LINE 7 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
5 8 5.8 T. 75 N., R. 10 W., near center of S. half of sec. 30, the center of NW.-SE. dirt rd. at drain crossing; painted "Centerline 641.8"		641.7
9 6.4 T. 75 N., R. 10 and 11 W., near cor. secs. 25, 30, 31 and 36; the center of N.-S. gravel rd. at T-rd. W.; painted "centerline 652.0"		651.9
10 7.1 T. 75 N., R. 11 W. near W. sixteenth cor. between secs. 25 and 36; the center of E.-W. gravel rd. at field entrance N.; painted "centerline 657.8"		657.6
11 7.9 T. 75 N., R. 11 W., near E. sixteenth cor. between secs. 26 and 35; the center of E.-W. gravel rd. at T-rd. S.; painted "centerline 742.0"		741.9
12 8.6 T. 75 N., R. 11 W., near cor. secs. 26, 27, 34 and 35; the center of E.-W. gravel rd. at crossroads; painted "centerline 750.3"		750.1
13 9.5 T. 75 N., R. 11 W., near W. sixteenth cor. between secs. 27 and 34, near the center of a curve in Co. Rd. "A" the center of rd. "A" at T-rd. NE.; painted "centerline 756.7"		756.5
14 10.2 "UE 14 DWE B" (described in Line 5)		757.02

LINE 8

WEST ALONG WEST PORTION OF NORTH BORDER (D.W. Ephlin, 1964; CV 1774)

NOTE: Leveling performed by Fourth Order Methods. One bench mark was established and line is not shown on diagram.

	<u>SIGOURNEY QUAD. - 71</u>	
5 16 0.0 US&GS "B 86 1934" (described in Line 1)		835.930
0.1 T. 77 N., R. 11 W., near quarter cor. between secs. 2 and 11; center of State Hwy. 149 at RR. crossing (overhead Bridge) painted "centerline 857.7"		857.7
17 0.4 T. 77 N., R. 11 W., near W. sixteenth cor. between secs. 2 and 11; center of E.-W. gravel rd. at T-rd. N.; painted "centerline 832.9"		832.9
18 1.1 T. 77 N., R. 11 W., near quarter cor. between secs. 3 and 10; the center of E.-W. gravel rd. at Trd. N.; painted "centerline 843.1"		843.1
19 1.9 T. 77 N., R. 11 W., near E. sixteenth cor. between secs. 4 and 9; center of E.-W. gravel rd. at crossroads; painted "centerline 850.0"		849.95
20 2.6 T. 77 N., R. 11 W., near cor. secs. 4, 5, 8 and 9; center of E.-W. gravel rd. at crossroads; painted "centerline 866.1"		866.1
21 3.3 T. 77 N., R. 11 W., near W. sixteenth cor. between secs. 5 and 8; center of E.-W. gravel rd. at crossroads; painted "centerline 863.6"		863.5
22 3.6 Webster, 4.0 mi N. of; T. 77 N., R. 11 W., near cor. secs. 5, 6, 7 and 8; on line between secs. 5 and 6; 35 ft N. of center of E.-W. rd. 1 ft S. of E.-W. fence at T-fence N.; a standard tablet stamped "ET 16 DHB 1964" set in concrete post; flush with ground level; painted "BM 873.8"		873.721
23 3.6 T. 77 N., R. 11 W., near quarter cor. between secs. 6 and 7; center of E.-W. gravel rd. at crossroads; painted "centerline 869.9"		869.8
4.7 T. 77 N., Rs. 11 and 12 W.; near cor. secs. 1, 6, 7 and 12; center of E.-W. gravel rd. at T-rd. N.; painted "centerline 861.5"		861.4
24 5.6 T. 77 N., R. 12 W., near cor. secs. 1, 2, 11 and 12; center of E.-W gravel rd. at crossroads; painted "centerline 845.0"		844.8

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SIGOURNEY QUADRANGLE
71 - IOWA

<u>LINE 8 (Cont'd)</u>	<u>SIGOURNEY QUAD. - 71</u>	<u>Feet</u>
5 25 6.1 T. 77 N., R. 12 W., near quarter cor. between secs. 2 and 11; center of E.-W. gravel rd. at T-rd. S.; painted "centerline 875.6"		875.4
26 6.6 T. 77 N., R. 12 W., near cor. secs. 2, 3, 10 and 11; center of E.-W. gravel rd. at T-rd. N.; painted "centerline 883.7"		883.5
27 7.6 "UE 25 DWE A" (described in Line 6)		885.35