

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

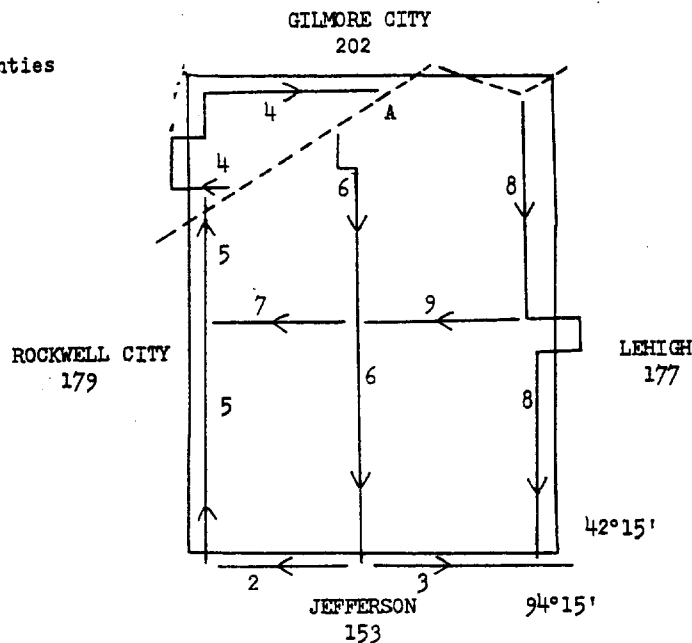
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GOWRIE QUADRANGLE
178 - IOWA
N4215-W9415/15
DIAGRAM NK 15-4
FORT DODGE, IOWA

Calhoun and Webster Counties

Edition of 1/20/65

PR: MLC:vdc



USC&GS LEVELING
A. No. 420942

Feet

LINE 1

ISOLATED BENCH MARKS NOT SHOWN ON DIAGRAM

T. 86 N., R. 29 W., cor. secs. 7, 8, 17 and 18; 50 ft NW. of center of crossroads; at fence corner; iron post stamped "Iowa 1919 1146" (not found 6/60 J.H.T.)	1146.506
T. 86 N., R. 29 W., cor. secs. 29, 30, 31 and 32; 25 ft SW. of center of crossroads; 20 ft S. of fence corner and 2 ft E. of fence line; iron post stamped "Iowa 1919 1157"	1157.429
T. 87 N., R. 29 W., cor. secs. 7, 8, 17 and 18; 50 ft NE. of center of crossroads; 2.5 ft S. of fence corner; iron post stamped "Iowa 1919 1155"	1155.184

LINE 2

WEST ALONG SOUTH BORDER (J.H. Tyndale, 1960; CV 1222)

JEFFERSON QUAD. - 153

7.5 Reference mark, crossroad (Co. Hwy. "J" N.-S.) 100 ft NNE. of tablet; copper nail and washer; painted "RM centerline 1124.3"	1124.16
7.5 Jefferson, 15.5 mi N. of; 90 ft S., 45 ft W. of and 4.0 ft lower than crossroad, cor. secs. 19, 20, 29 and 30; T. 86 N., R. 30 W., 1 ft E. of W. right-of-way fence, 45 ft W. of center of Co. Hwy. "J" in concrete post; standard tablet "9 T 1960 1120"	1120.168
8.0 UE, center of rd. at N.-S. fences; quarter cor. secs. 19 and 30; T. 86 N., R. 30 W.	1114.1
8.5 UE crossroad, cor. secs. 19, 24, 25 and 30; T. 86 N., R. 30 and 31 W.	1120.4
9.0 UE, center of rd. at N.-S. fences, quarter cor. secs. 24 and 25, T. 86 N., R. 31 W.	1120.6
9.5 UE crossroad; cor. secs. 23, 24, 25 and 26, T. 86 N., R. 31 W.	1113.2

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GOWRIE QUADRANGLE
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<u>LINE 2 (Cont'd)</u>		<u>JEFFERSON QUAD. - 153</u>	<u>Feet</u>
9.9	UE 12 ft N., 4 ft W. and 1.25 ft higher than center of 5 x 5 ft concrete box culvert; 710 ft E. of center of rd. at fence S., quarter cor. secs. 23 and 26, T. 86 N., R. 31 W.; center of N. headwall; chiseled square		1100.79
10.6	Reference mark, 200 ft S. of tablet; 165 ft S., 28 ft W. and 2.2 ft lower than crossroads N. and 1 ft concrete tube culvert; chiseled square		1127.52
10.6	Farmhamville, about 2.5 mi S. and 1.5 mi W. of; 40 ft N. and 30 ft W. of crossroads; at cor. secs. 22, 23, 26 and 27, T. 86 N., R. 31 W., in concrete post; standard tablet stamped "TT 10 C 1936 1128"		1127.694
11.1	UE, center of rd. at N.-S. fences, quarter cor. sec. 22 and 27, T. 86 N., R. 31 W.		1128.7
11.6	UE, 58 ft N., 12 ft W. of and 1.4 ft lower than crossroad; cor. secs. 21, 22, 27 and 28; T. 86 N., R. 31 W., center of W. headwall of concrete tube culvert; chiseled square		1134.18
12.1	UE, center of rd. at N.-S. fences; quarter cor. secs. 21 and 28; T. 86 N., R. 31 W.		1128.8
12.6	UE, crossroad; (Iowa 17 N.-S.) cor. secs. 20, 21, 28 and 29, T. 86 N., R. 31 W., copper nail and washer		1137.64
13.1	UE, center of rd. at fence N.; quarter cor. secs. 20 and 29, T. 86 N., R. 31 W.		1136.4
13.6	Reference mark, 144 ft ENE. of tablet; 34 ft N., 58 ft E. and 1.9 ft lower than crossroad; steel fence post projecting 0.8 ft above ground; 1 ft S. of N. right-of-way fence		1140.63
13.6	Lohrville, about 2.0 mi S. and 2.0 mi E. of; 33 ft S. and 70 ft W. of crossroads at cor. secs. 19, 20, 29 and 30; T. 86 N., R. 31 W., 42 ft W. of fence corner in concrete post; standard tablet stamped "TT 9 C 1936 1144"		1143.662
<u>GLIDDEN QUAD. - 154</u>			
14.1	UE, center of rd. at fence N.; quarter cor. sec. 19 and 30; T. 86 N., R. 31 W.		1138.5
14.5	UE, T. rd. N., cor. secs. 19, 20, 24 and 25, T. 86 N., R. 31 and 32 W.		1130.9
14.9	Lohrville, 2.3 mi SE. from station at; along C. M. St. P. & P. RR. near E. sixteenth cor. secs. 24 and 25, T. 86 N., R. 31 W., 40 ft S. and 46 ft E., 4.1 ft higher than rd. crossing RR.; 9 ft S. of fence corner; 1 ft W. of fence; in concrete post; standard tablet stamped "N 101 1935" USGS disk		1133.075

LINE 3

<u>EAST ALONG SOUTH BORDER (J.H. Tyndale, 1960; GV 1222)</u>		<u>JEFFERSON QUAD. - 153</u>	
0.0	"9 T 1960 1120" (described in Line 2)		1120.168
0.5	UE, center of rd. at field line N., quarter cor. secs. 20, and 29, T. 86 N., R. 30 W.		1119.0
1.0	UE, center of timber deck bridge; 510 ft W. of sec. cor. between 21 and 28; T. 86 N., R. 30 W.		1101.0
1.0	UE, center of rd. at N.-S. fences, cor. secs. 20, 21, 28 and 29, T. 86 N., R. 30 W.		1106.5
2.0	UE, crossroad; cor. secs. 21, 22, 27 and 28, T. 86 N., R. 30 W.		1107.0
3.1	Reference mark, 36 ft S., 20 ft E. and 1.1 ft lower than crossroad; E. end of 24-in. concrete tube culvert, 132 ft W. of tablet; chiseled square; cor. secs. 22, 23, 26 and 27; T. 86 N., R. 30 W.,		1109.16

<u>LINE 3 (Cont'd)</u>	<u>JEFFERSON QUAD. - 153</u>	<u>Feet</u>
3.1 Jefferson, 15.5 mi N. and 3.0 mi E. of; 40 ft S., 151 ft E. of crossroads; cor. secs. 22, 23, 26 and 27, T. 86 N., R. 30 W., 12 ft W. of utility pole on S. right-of-way of E.-W. fence line; in concrete post; standard tablet stamped "TT 12 C 1936" (reset 1960)		1109.504
3.6 UE, center of rd. at fence S.; quarter cor. secs. 23 and 26; T. 86 N., R. 30 W.,		1123.1
4.1 UE, crossroad, cor. secs. 23, 24, 25 and 26; T. 86 N., R. 30 W., copper nail and washer		1122.51
4.6 UE, center of rd. at fence S., quarter cor. secs. 24 and 25; T. 86 N., R. 30 W.		1127.4
5.1 UE, T-rd. W.; cor. secs. 19, 24, 25 and 30; T. 86 N., Rs. 29 and 30 W.		1132.4
5.7 Reference mark, 165 ft W. of tablet; 33 ft S. 35 ft E. and 0.2 ft higher than T-rd. E. NW. side of power pole; 0.2 ft above ground; RR. spike		1143.84
5.7 Jefferson, 16 mi N. and 5.0 mi E. of; 36 ft S., 200 ft E. of T-rd. E.; and 1.8 ft lower than quarter cor. secs. 19 and 24, T. 86 N., R. 29 W., 1 ft S. of S. right-of-way fence E.-W.; in concrete post; standard tablet stamped "10 T 1960 1142"		1142.670
6.2 UE, center of rd. at N.-S. fences, center of sec. 19, T. 86 N., R. 29 W.		1143.7
6.7 UE, T-rd. W., quarter cor. secs. 19 and 20, T. 86 N., R. 29 W.,		1142.7
6.7 UE, 30 ft N., 52 ft E. and 1.6 ft lower than T-rd. E.; cor. secs. 19, 22, 29 and 30, T. 86 N., R. 29 W., NE. side of power transformer pole; 0.5 ft above ground; RR. spike		1137.23
<u>OGDEN QUAD. - 152</u>		
7.2 UE, center of rd. at N.-S. fences; quarter cor. secs. 20 and 29, T. 86 N., R. 29 W.		1131.2
7.2 Grand Junction, 16.0 mi N. of along State Hwy. 144; 32 ft S., 545 ft W. of crossroad cor. secs. 20, 21, 28 and 29; T. 86 N., R. 29 W., 1 ft N. of S. right-of-way fence; and 6.6 ft higher; in concrete post; standard tablet stamped "11 T 1960 1133"		1132.975
7.2 Reference mark, 497 ft E. of tablet; 28 ft S., 48 ft W. and 5 ft lower than crossroad; S. end of 2 ft concrete tube culvert; chiseled square		1121.30

LINE 4

NORTH THENCE EAST ALONG NORTH BORDER (W.K. Mc Curley, 1964; CV 1770)

GOWRIE QUAD. - 178

1 2 0.0 Richards, 2.5 mi NE. along the I.C. RR. from; 12 yards NE. of bridge over the Chicago, Rock Island and Pacific RR., 30 yards N. of pole 440+10 on the C. R.I. & P. RR., in the top of the SW. concrete abutment of cattlepass WA 391.7, 37 ft NE. of the center of C. R.I. & P. RR. and 10.7 ft SE. of the center of main track of the Illinois Central RR.; a USC&GS standard disk "G 13 1933"	1202.547 1178.6
0.2 Center of RR. crossing about 0.2 mi SE. of tablet	
1.0 UE G 13 A, T. 88 N., R. 31 W., near SE. cor. of sec. 7, in center of bridge over drainage ditch; copper nail and washer; painted "UE centerline 1178.9"	1178.92

ROCKWELL CITY QUAD. - 179

3 1.9 UE G 13 B, 1.87 mi WSW. of tablet; T. 88 N., Rs. 31 and 32 W.; near cor. secs. 7, 12, 13 and 18; 170 ft N., 33 ft W. and 1.3 ft lower than crossroads; in W. side of power pole; a lag bolt; painted "UE 1185.8"	1185.83
4 2.8 UE G 13 C, 1.87 mi W. thence 0.98 mi N. of tablet; T. 88 N., Rs. 31 and 32 W., near cor. secs. 1, 6, 7 and 12; 39 ft N., 32 ft W. and 3.5 ft lower than center of crossroads; in a brace pole for power line pole; on E. side of pole; a lag bolt painted "UE 1190.0"	1190.04

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GOWRIE QUADRANGLE
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LINE 4 (Cont'd)	ROCKWELL CITY QUAD. - 179	Feet
1 6 4.0 Reference mark, 120 ft W. of tablet; at SW. cor. of T-rd. S.; in power pole; a lag bolt; painted "RM"		1200.93
4.0 Knierim, 1.0 mi N. and 3.0 mi W. of; T. 88 N., R. 31 W., near NW. cor. of sec. 6, 59 ft S., 74 ft E. of and 0.5 ft lower than T-rd. S.; in top of concrete post; standard tablet stamped "1 WMC 1964 1201" painted "RM 1201.2"		1201.23
<u>GOWRIE QUAD. - 178</u>		
7 4.7 UE 1 WMC A, 0.6 mi E. of tablet; T. 89 N., R. 31 W., near SE. cor. of sec. 33, 42 ft N., 25 ft W. of and 2.3 ft lower than T-rd. N.; on top of round concrete culvert; a chiseled square; painted "UE 1189.3"		1189.30
8 5.6 UE 1 WMC B, 0.6 mi E. thence 1.0 mi N. of tablet; T. 89 N., R. 31 W., near cor. secs. 27, 28, 33 and 34; 33 ft S., 29 ft E. of and 3.6 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1193.6"		1193.66
9 6.3 UE 1 WMC C, 0.6 mi E. thence 1.6 mi N. of tablet; T. 89 N., R. 31 W., near quarter cor. between secs. 27 and 28; at SW. corner of bridge on top of bolt which is in the steel frame of bridge; painted square around bolt; and 1.0 ft lower than bridge;		1194.42
10 6.7 Reference mark, 90 ft WNW. of tablet; painted square on top of steel corrugated culvert; painted "RM"		1201.89
6.7 Knierim, 3.0 mi N. and 5 mi W. of; T. 89 N., R. 31 W., near cor. secs. 21, 22, 27 and 28; 43 ft S., 41 ft E. of and 2.1 ft lower than center of rd. at T-rd. E.; at offset crossroads; 5 ft E. of and 1 ft N. of a fence corner; in top of concrete post; standard tablet stamped "2 WMC 1964 1201" painted "BM 1201.4"		1201.462
12 7.7 UE 2 WMC A, 1.0 mi E. of tablet; T. 89 N., R. 31 W., near cor. secs. 22, 23, 26 and 27; 27 ft S., 13 ft W. and 3.3 ft lower than center of rd. at field entrance S. on top of round concrete culvert; a chiseled square; painted "UE 1187.5"		1187.47
13 8.6 UE 2 WMC B, 2.0 mi E. of tablet; T. 89 N., R. 31 W., cor. secs. 23, 24, 25 and 26; in center of paved rd. (County Hwy. "C") a chiseled square; painted "UE 1201.6"		1201.67
14 9.8 Reference mark, 31 ft S. and 20 ft W. of T-drive N.; in telephone pole; a lag bolt painted "RM"		1210.56
9.8 Knierim, 3.0 mi N. and 0.5 mi E. of; T. 89 N., Rs. 30 and 31 W., near cor. secs. 19, 24, 25 and 30; 230 ft E., 31 ft S. of and 1.4 ft lower than T-drive N.; 2 ft W. of a telephone pole; in top of concrete post; standard tablet stamped "3 WMC 1964 1201" painted "BM 1209.1"		1209.136
16 10.7 UE 3 WMC A, 1.0 mi E. of tablet; T. 89 N., R. 30 W., near cor. secs. 19, 20, 29 and 30; 28 ft S., 110 ft E. of and 0.2 ft higher than T-rd. S.; in power pole; a lag bolt; painted UE 1207.6"		1207.66
17 11.6 UE 3 WMC B, 1.82 mi E. of tablet; T. 89 N., R. 30 W., near cor. secs. 20, 21, 28 and 29; 30 ft N., 11 ft W. of and 3.2 ft lower than crossroad at drive N.; on top of round concrete culvert; a chiseled square; painted "UE 1201.5"		1201.57
18 12.7 UE 3 WMC C, 2.9 mi E. of tablet; T. 89 N., R. 30 W., cor. secs. 21, 22, 27 and 28, 33 ft S., 40 ft W. of and 1.3 ft lower than center of crossroads; in telephone pole; a lag bolt; painted "UE 1184.4"		1184.46
19 13.4 Reference mark, 85 ft SSW. of tablet; on top of round concrete culvert; E. and chiseled square; painted "RM"		1187.29
13.4 Bannum, 0.2 mi S. and 0.2 mi W. of; T. 89 N., R. 30 W., near E. sixteenth cor. between secs. 22 and 27, 31 ft N., 161 ft W. of and 0.9 ft lower than T-rd. E. 3 ft WNW. of power pole; in top of concrete post; standard tablet stamped "4 WMC 1964 1187" painted "BM 1186.9"		1186.906

<u>LINE 4 (Cont'd)</u>	<u>GOWRIE QUAD. -178</u>	<u>Feet</u>
1 20 13.9 UE 4 WMC A, At Barnum, T. 89 N., R. 30 W., near S. sixteenth cor. between secs. 22 and 23; just N. of school in center of rd. at T-rd. N.; copper nail and washer; painted "UE centerline 1173.5"		1173.52
21 15.1 UE 4 WMC B, 1.25 mi E. of tablet; T. 89 N., R. 30 W., cor. secs. 23, 24, 25 and 26; 20 ft S., 79 ft W. of and level with T-rd. W.; on top of round concrete culvert; a chiseled square; painted "UE 1142.3"		1142.29
22 15.6 UE 4 WMC C, 1.25 mi E. of and 0.5 mi S. of tablet; T. 89 N., R. 30 W., quarter cor. between secs. 25 and 26, 33 ft W. of and 0.8 ft lower than T-rd. E.; in power pole; a lag bolt; painted "UE 1178.2"		1178.23
23 17.4 Tara, about 1.0 mi W. along the ILL. Central RR. from; near W. end of RR. yard, about 150 yards W. of the milepost 0134-382, 40 ft W. of the W. end of switch point, 24 ft S. of the center of S. main track and 21.5 ft NW. of a pole; a USC&GS standard disk stamped "1151.697 D 13 1933" set in top of concrete post		1151.697

LINE 5

<u>NORTH ALONG WEST BORDER (W.K. Mc Curley, 1964; CV 1770)</u>	<u>JEFFERSON QUAD. - 153</u>	
1 26 0.0 Lohrville, about 2.0 mi S. and 2.0 mi E. of; 33 ft S., 70 ft W. of crossroads; at cor. secs. 19, 20, 29 and 30; T. 86 N., R. 31 W., 42 ft W. of fence cor. in concrete post; standard tablet stamped "TT 9 C 1956 1144"		1143.662
<u>GOWRIE QUAD. - 178</u>		
1.0 UE TT 9 C A, 1.0 mi N. of tablet; T. 86 N., R. 31 W., cor. secs. 17, 18, 19 and 20; 69 ft N., 32 ft E. of and 3.2 ft lower than T-rd. E.; in power pole; a lag bolt; painted "UE 1146.0"		1145.98
27 2.0 UE TT 9 C B, 2.0 mi N. of tablet; T. 86 N., R. 31 W., cor. secs. 7, 8, 17 and 18; 30 ft N., 50 ft E. of and 3.9 ft lower than center of crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1139.2"		1139.21
28 3.0 Reference mark, 105 ft S. of tablet; 22 ft S., 64 ft W. of crossroads; on top of steel corrugated culvert; a painted square; painted "RM"		1139.13
3.0 Lohrville, 1.0 mi N. and 3.0 mi E. of; T. 86 N., R. 31 W., near cor. secs. 5, 6, 7 and 8; 77 ft N., 38 ft W. of and 2.7 ft lower than crossroads; 2.0 ft E. of power pole with guy line; in top of concrete post; standard tablet stamped "5 WMC 1964 1140" painted "EM 1140.2"		1140.182
29 4.0 UE 5 WMC A, 1.0 mi N. of tablet; Tps. 86 and 87 N., R. 31 W., cor. secs. 5, 6, 31 and 32; 100 ft S., 20 ft E. of and 3.8 ft lower than crossroads; on top of steel corrugated culvert; a painted square; painted "UE 1142.0"		1141.96
30 5.0 UE 5 WMC B, 2.0 mi N. of tablet; T. 87 N., R. 31 W., cor. secs. 29, 30, 31 and 32; 60 ft S., 51 ft W. of and 3.2 ft lower than crossroads; on NW. end of round concrete culvert; at field entrance SW., a chiseled square; painted "UE 1138.5"		1138.78
31 6.0 UE 5 WMC C, 3.0 mi N. of tablet; T. 87 N., R. 31 W., cor. secs. 19, 20, 29 and 30, 10 ft N., 41 ft E. of and 0.5 ft lower than crossroads; on N. end of W. steel abutment plate of bridge; and 1.1 ft lower than center of bridge; on top of $\frac{1}{2}$ in. bolt head, with painted square around bolt head; painted "UE 1129.9"		1129.84
33 6.3 Rinard, 0.7 mi S. and 0.5 mi W. of; T. 87 N., R. 31 W., near S. sixteenth cor. between secs. 19 and 20; 29 ft N., 41 ft W. of and 0.7 ft lower than center of rd. at RR. crossing; 2.5 ft N. of a telegraph pole; 1.5 ft E. of a fence corner; in top of concrete post; standard tablet stamped "6 WMC 1964 1156" painted "EM 1156.2"		1156.107

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<u>LINE 5 (Cont'd)</u>	<u>GOWRIE QUAD. - 178</u>	<u>Feet</u>
1 34 7.0	Referencemark, 305 ft NNE. of tablet; 30 ft E. of center of rd., in W. side of a telephone pole; a lag bolt; painted "RM"	1155.74
7.0	UE 6 WMC A, 0.7 mi N. of tablet; T. 87 N., R. 31 W., cor. secs. 17, 18, 19 and 20; in center of paved crossroads; a chiseled square; painted UE centerline 1166.1	1165.98
35 8.0	UE 6 WMC B, 1.7 mi N. of tablet; T. 87 N., R. 31 W., cor. secs. 7, 8, 17 and 18; at bridge over West Cedar Creek; 35 ft N., 19 ft W. of and 0.4 ft higher than crossroads; on top of concrete wingwall; a chiseled square; painted "UE 1151.1"	1150.97
37 9.0	Referencemark, 145 ft SSW. of tablet; 69 ft S. and 129 ft W. of crossroads; in NW. side of power pole; a lag bolt; painted "RM"	1160.91
9.0	Rinard, 2.0 mi N. and 0.5 mi W. of; T. 87 N., R. 31 W., near cor. secs. 5, 6, 7 and 8, 57 ft N., 47 ft W. of and 0.9 ft lower than crossroads; 4 ft N. of a telephone pole; 1.5 ft E. of W. right-of-way fence, in top of concrete post; standard tablet stamped "7 WMC 1964 1160" painted "EM 1160.2"	1160.052
38 10.1	UE 7 WMC A, 1.0 mi N. of tablet; Tps. 87 and 88 N., R. 31 W., cor. secs. 5, 6, 31 and 32; in center of crossroads; a chiseled square; painted "UE centerline 1177.1"	1176.90
62 10.1	Rinard, 2.8 mi N. and 0.5 mi W. of; about 1200 ft S. of cor. secs. 5, 6, 31 and 32; Tps. 87 and 88 N., R. 31 W., 48.4 ft E. of center of rd. 170 ft S. of driveway W. to farm house, 4 ft S. of power pole; and 2 ft W. of right-of-way fence; in concrete post; standard tablet stamped "ET 8 HK 1964 1178" painted "EM 1177.9"	1177.748
39 11.1	UE 7 WMC B, 2.0 mi N. of tablet; T. 88 N., R. 31 W., cor. secs. 29, 30, 31 and 32; 39 ft N., 40 ft W. of and 2.3 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1170.8"	1170.65
40 12.1	Somers, 2.5 mi N. 3.25 mi W. of; Knierim, 3.0 mi S. and 2.0 mi W. of; T. 86 N., R. 31 W., near cor. secs. 19, 20, 29 and 30, 173 ft N., 28 ft E. of and 2.6 ft lower than crossroads; 1.5 ft WNW. of a power pole; in top of concrete post; standard tablet stamped "8 WMC 1964 1183" painted "EM 1183.5"	1183.235
41 13.1	UE 8 WMC A, 1.0 mi N. of tablet; T. 88 N., R. 31 W., cor. secs. 17, 18, 19 and 20; 84 ft N., 23 ft E. of and 5.9 ft lower than crossroads; on top of steel corrugated culvert; a painted square; painted "UE 1168.7"	1168.42
42 14.1	"UE G 13 A" (described in Line 4)	1178.92

LINE 6

<u>SOUTH THRU CENTER OF QUAD. (W.K. Mc Gurley, 1964; CV 1770)</u>	<u>GOWRIE QUAD. - 178</u>	
1 45 0.0	Tara, 5.0 mi SW. along the I.C. RR. from; 150 yards W. of milepost 0 130-386, at bridge WA 386.1, in top of E. concrete abutment, and 9.2 ft SE. of the center of main track; a USC&GS standard disk stamped "1170.188 E 13 1933"	1170.188
0.8	UE E 13 A, 0.8 mi S. and E. of tablet; Tps. 89 and 88 N., R. 30 W., near NE. cor. of sec. 6, 12 ft S., 140 ft W. of and 4.2 ft lower than center of rd. at T-rd. S. on top of and in center of S. concrete curb of bridge; a chiseled square; painted "UE 1163.0"	1162.98
46 2.0	UE E 13 B, 1.97 mi S. of tablet; T. 88 N., R. 30 W., cor. secs. 5, 6, 7 and 8, 34 ft N., 18 ft W. of and 0.3 ft lower than crossroads; about 5 ft S. of N. end of concrete curb; a chiseled square; painted "UE 1154.4"	1154.39
47 3.0	center of crossroads; T. 88 N., R. 30 W., cor. secs. 7, 8, 17 and 18; ground elev.	1167.32

<u>LINE 6 (Cont'd)</u>	<u>GOWRIE QUAD. - 178</u>	<u>Feet</u>
1 47 3.1 UE E 13 C, 3.14 mi S. of tablet; T. 88 N., R. 30 W., near cor. secs. 7, 8, 17 and 18; 870 ft S., 23 ft W. of crossroads; 2.4 ft lower than center of rd. at culvert; in top of round concrete culvert; chiseled square; painted "UE 1159.6"		1159.59
48 4.0 Referencemark, 585 ft N. of tablet; 23 ft W. of center of rd., on top of concrete retainer wall; chiseled square; painted "RM"		1153.21
4.0 Mooreland, 1.0 mi S. and 4.0 mi W. of; Roelyn, 1.0 mi N. and 1.0 mi W. of T. 88 N., R. 30 W., near cor. secs. 17, 18, 19 and 20; 16 ft S., 50 ft W. and level with crossroads; in top of W. end of S. concrete wall of bridge; a standard tablet stamped "9 WMC 1964 1159" painted "EM 1159.0"		1158.975
49 4.5 UE 9 WMC A, 0.5 mi S. of tablet; T. 88 N., R. 30 W., near quarter cor. between secs. 19 and 20; 9 ft S., 40 ft W. and 0.4 ft lower than crossroads; in center of S. edge of plank bridge; copper nail and washer; painted "UE 1156.7"		1156.69
50 5.5 UE 9 WMC B, 1.55 mi S. of tablet; T. 88 N., R. 30 W., near quarter cor. between secs. 29 and 30; 128 ft S., 18 ft E. and 2.6 ft higher than center of crossroads; (Hwy. 20 and N.-S. Co. hwy.) on concrete base of RR. signal light at crossing; a chiseled square; painted "UE 1161.1"		1161.06
52 6.0 UE 9 WMC C, 2.0 mi S. of tablet; T. 88 N., R. 30 W., cor. secs. 29, 30, 31 and 32; 21 ft N., 35 ft W. and 2.7 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1157.1"		1157.08
53 7.0 UE 9 WMC D, 2.0 mi S. of tablet; Tps. 87 and 88 N., R. 31 W., cor. secs. 5, 6, 31 and 32; 33 ft S., 45 ft E. and 1.8 ft lower than crossroads; on top of round concrete culvert; chiseled square; painted "UE 1151.9"		1151.80
55 8.0 Somers, 2.8 mi S. of; Roelyn, 2.5 mi S. and 1.0 mi W. of; T. 87 N., R. 30 W. near quarter cor. between secs. 5 and 6, 470 ft S., 43 ft E. and 4.4 ft lower than center of rd. at drive W. to farmhouse; 2.1 ft lower than center of rd. opposite B.M., 4.0 ft SW. of power pole; in top of concrete post; standard tablet stamped "10 WMC 1964 1153" painted "EM 1153.2"		1153.156
56 8.4 Referencemark, 310 ft SSW. of tablet; on N. end of round concrete culvert; at field entrance W.; a chiseled square; painted "RM"		1151.03
8.4 UE 10 WMC A, 0.5 mi S. of tablet; T. 87 N., R. 30 W., cor. secs. 5, 6, 7 and 8; 24 ft N., 38 ft W. and 4.0 ft lower than crossroads; on top of round concrete culvert; chiseled square painted "UE 1149.8"		1149.74
57 9.4 UE 10 WMC B, 1.5 mi S. of tablet; T. 87 N., R. 30 W., cor. secs. 7, 8, 17 and 18; 23 ft N., 37 ft W. and 3.7 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1146.4"		1146.26
58 10.4 UE 10 WMC C, 2.5 mi S. of tablet; T. 87 N., R. 30 W., cor. secs. 17, 18, 19 and 20; 68 ft S., 25 ft E. of and 2.3 ft lower than crossroads; on top of 24-in. round concrete culvert; chiseled square; painted "UE 1139.3"		1139.16
59 11.4 Reference mark, 320 ft NNW. of tablet; on S. end of round concrete culvert; at drive W. to farmhouse; a chiseled square; painted "RM"		1152.68
11.4 Gowrie, 3.0 mi N. and 5.0 mi W. of; T. 87 N., R. 30 W., secs. 19, 20, 29 and 30; 34 ft S., 44 ft E. of and 5.2 ft lower than T-rd. W.; 5 ft SSW. of power pole; in top of concrete post standard tablet stamped "11 WMC 1964 1151" painted "EM 1151.3"		1151.187
60 12.4 UE 11 WMC A, 1.0 mi S. of tablet; T. 87 N., R. 30 W., cor. secs. 29, 30, 31 and 32; 25 ft N., 34 ft W. and 2.6 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1141.9"		1141.81
SPUR LINE		
62 0.1 Rinard, 2.8 mi N. and 0.5 mi W. of; about 1200 ft S. of cor. secs. 5, 6, 31 and 32; Tps. 87 and 88 N., R. 31 W., 48.4 ft E. of center of rd., 170 ft S. of driveway W. to farmhouse; 4 ft S. of power pole; and 2 ft W. of right-of-way fence; in concrete post; standard tablet stamped "ET 8 HK 1964" painted "EM 1177.9"		1177.748
END OF SPUR		

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 POWRIE QUADRANGLE
 178 - IOWA

<u>LINE 6 (Cont'd)</u>		<u>GOWRIE QUAD. - 178</u>	<u>Feet</u>
1 63 13.4	UE 11 WMC B, 2.0 mi S. of tablet; Tps. 86 and 87 N., R. 30 W., cor. secs. 5, 6, 31 and 32; 20 ft N., 33 ft W. of and 3.4 ft lower than crossroads; on top of round concrete culvert; chiseled square		1143.12
64 14.4	Farnhamville, 0.5 mi N. and 1.3 mi E. of; T. 86 N., R. 30 W., near cor. secs 5, 6, 7 and 8; 96 ft N., 45 ft E. and 2.5 ft lower than crossroads; in top of concrete post; standard tablet stamped "12 WMC 1964 1140" painted "BM 1139.5"		1139.418
65 14.4	Reference mark, 155 ft SSW. of tablet; on top of round concrete culvert; a chiseled square; painted "RM"		1138.07
15.4	UE 12 WMC A, 1.0 mi S. of tablet; T. 86 N., R. 30 W., cor. secs. 7, 8, 17 and 18; 31 ft S., 30 ft E. of and 3.7 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1128.9"		1128.72
66 16.4	Farnhamville, 1.5 mi S. and 1.5 mi E. of; at cor. secs. 17, 18, 19 and 20; T. 86 N., R. 30 W., 29 ft N., 45 ft W. and 2.1 ft lower than crossroads; 3 ft SW. of power pole; in concrete post; standard tablet stamped "ET 1 HK 1964 1122" painted "BM 1121.9"		1121.77
67 16.5	Reference mark, 305 ft SSE. of tablet; 44 ft E. of center of rd. in telephone pole; a lag bolt; painted "RM"		1178.69
		<u>JEFFERSON QUAD. - 153</u>	
17.4	"9 T 1960 1120" (described in Line 2)		1120.168

LINE 7

WEST THRU CENTER OF WEST PORTION (W.K. Mc Curley, 1964; CV 1770)

		<u>GOWRIE QUAD. - 178</u>	
1 70 0.0	"UE 9 WMC D, (described in Line 6)		1151.80
1.0	UE 9 WMC D.1, 3.0 mi S. and 1.0 mi W. of tablet; Tps. 87 and 88 N., R. 30 and 31 W.; 32 ft S., 26 ft E. and 3.3 ft lower than center of rd. at T-fence S.; on top of round concrete culvert; chiseled square painted "UE 1149.0"		1148.93
71 2.0	UE 9 WMC D.2, 3.0 mi S. and 2.0 mi W. of tablet; Tps. 87 and 88 N., R. 31 W., cor. secs. 1, 2, 35 and 36; 22 ft S., 40 ft W. and 1.9 ft lower than crossroads on top of round concrete culvert; a chiseled square; painted "UE 1155.6"		1155.55
72 2.9	Somers, 0.25 mi N. of; Tps. 87 and 88 N., R. 31 W., near cor. secs. 2, 3, 34 and 35; 605 ft E. of crossroads; at concrete bridge over small creek; in top of NW. concrete wingwall and 2.6 ft higher than center of bridge; standard tablet stamped "13 WMC 1964 1150" painted "BM 1150.2"		1150.131
73 2.9	Reference mark, 635 ft W. of tablet; 16 ft S., 31 ft W. and 1.5 ft lower than crossroads; on top of concrete headwall; a chiseled square; painted "RM"		1148.02
4.0	UE 13 WMC A, 1.1 mi W. of tablet; Tps. 87 and 88 N., R. 31 W., cor. secs. 3, 4, 33 and 34; 42 ft S., 22 ft W. and 2.0 ft lower than crossroads; on top of steel culvert; a painted square; painted "UE 1151.1"		1151.01
74 5.0	UE 13 WMC B, 2.1 mi W. of tablet; Tps. 87 and 88 N., R. 31 W., cor. secs. 4, 5, 32 and 33; 32 ft S., 31 ft E. of and 1.4 ft lower than crossroads; in N. side of power pole; a lag bolt; painted "UE 1174.5"		1174.34
75 6.0	"UE 7 WMC A" (described in Line 5)		1176.90

LINE 8

Feet

SOUTH ALONG EAST BORDER (W.K. Mc Gurley, 1964; CV 1770)

GOWRIE QUAD. - 178

- 1 78 0.0 Tara, 1.5 mi E. along I.C. RR from; 0.5 mi W. of milepost 379, 70 ft E. of center of Co. rd., 41.5 ft E. of first power transmission line pole N. of track; 39.9 ft N. of center of track; and 10 ft S. of fence; a USC&GS standard disk stamped "1120.815 B 13 1933" set in top of concrete post 1120.815
- 0.8 UE B 13 A, 0.8 mi S. of tablet; T. 89 N., R. 29 W., near N. sixteenth cor. between secs. 33 and 34; 59 ft SE. of (along gravel rd.) thence 45 ft W. of (normal to rd) and 3.3 ft lower than intersection of rd. at curve; on top of concrete culvert; a chiseled square; painted "UE 1127.9" 1127.88
- 80 1.9 UE B 13 B, 1.91 mi S. of tablet; Tps. 88 and 89 N., R. 29 W., near N. cor. between secs. 5 and 6, 35 ft N., 142 ft W. of and 1.8 ft lower than T-rd. S.; on top of E. end of round concrete culvert at field entrance N.; a chiseled square; painted "UE 1142.0" 1141.96
- 2 1 2.9 Referencemark, 135 ft NW. of tablet; on W. end of concrete culvert; a chiseled square painted "RM" 1124.72
- 2.9 Mooreland, 1.0 mi N. and 2.0 mi E. of; T. 88 N., R. 29 W., about 600 ft N. of cor. secs. 5, 6, 7 and 8, 141 ft S. (of U.S. Hwy. 20) 59 ft E. of and 1.8 ft lower than crossroads; 25 ft S., 59 ft E. of rd. at RR. crossing; in top of concrete post; standard tablet stamped "14 WMC 1964 1125" 1124.512
- 2 4.0 UE 14 WMC A, 1.1 mi S. of tablet; T. 88 N., R. 29 W., cor. secs. 7, 8, 17 and 18; 53 ft N., 48 ft W. and 3.1 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1131.2" 1131.20
- 3 5.1 UE 14 WMC B, 2.13 mi S. of tablet; T. 88 N., R. 29 W., cor. secs. 17, 18, 19 and 20 34 ft S., 32 ft W. of and 2.5 ft lower than crossroads; in power pole; a lag bolt; painted "UE 1138.5" 1138.47
- 4 6.1 UE 14 WMC C, 3.12 mi S. of tablet; T. 88 N., R. 29 W., near cor. secs. 19, 20, 29 and 30; 36 ft N., 30 ft W. of and 1.5 ft lower than crossroads; in power pole; a lag bolt; painted "UE 1145.4" 1145.42
- 5 6.3 Mooreland, 2.25 mi S. and 2.0 mi E. of; T. 88 N., R. 29 W., N. sixteenth cor. between secs. 29 and 30; 195 ft N., 32 ft W. of and 2.5 ft lower than center of rd. at drive W., 2.0 ft N. and 32 ft W. of field rd. E.; 10 ft N. of a fence corner; in top of concrete post; standard tablet stamped "15 WMC 1964 1147" painted "EM 1147.4" 1147.382
- 6 6.3 Reference mark, 330 ft S. of tablet; on N. end of steel culvert; a painted square painted "RM" 1150.64
- 7.2 UE 15 WMC A, 0.9 mi S. of tablet; T. 88 N., R. 29 W., ^{650 ft S. of} cor. secs. 29, 30, 31 and 32; 33 ft W. of and 6.4 ft lower than center of rd. at drain; on top of round concrete culvert; a chiseled square; painted UE 1141.8 1141.78
~~1148.78~~
- 7 8.1 UE 15 WMC B, 1.8 mi S. of tablet; T. 87 and 88 N., R. 29 W., cor. secs. 5, 6, 31 and 32; 37 ft N., 32 ft E. of and 1.5 ft lower than crossroads; in power pole; a lag bolt; painted "UE 1150.0" 1149.99
- LEHIGH QUAD. - 177
- 8 8.6 UE 15 WMC D, 1.8 mi S. thence 0.5 mi E. of tablet; Tps. 87 and 88 N., R. 29 W., quarter cor. between secs. 5 and 32; 23 ft N., 46 ft W. of and 2.0 ft lower than T-rd. S.; on top of steel culvert; a painted square; painted "UE 1155.5" 1155.46
- 10 9.2 Callender, 2.0 mi E. and 1.0 mi N. of; at approx. center of sec. 5, T. 87 N., R. 29 W., 21 ft E., 162 ft N. of and 0.1 ft higher than T-drive W. to farmhouse; 1 ft W. of fence line; in concrete post; standard tablet stamped "ET 5 HK 1964 1166" painted "EM 1166.4" 1166.347

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GOWRIE QUADRANGLE
178 - IOWA

<u>LINE 8 (Cont'd)</u>		<u>LEHIGH QUAD. - 177</u>	<u>Feet</u>
2 11 9.2	Reference mark, 160 ft SSW. of tablet; in power pole; a lag bolt; painted "RM"		1164.97
9.6	UE 5 HK A, 0.4 mi S. of tablet; T. 87 N., R. 29 W., quarter cor. between secs. 5 and 8; 42 ft N., 71 ft W. of and 3.0 ft lower than crossroads; on top of concrete culvert; a chiseled square; painted "UE 1159.2"		1159.19
12 10.6	UE 5 HK B, 1.4 mi S. of tablet; T. 87 N., R. 29 W., quarter cor. between secs. 8 and 17, in center of rd. at T-rd. N.; ground elev.; painted "UE centerline 1156.7"		1156.67
		<u>GOWRIE QUAD. - 178</u>	
13 11.1	UE 5 HK C, 1.4 mi S. thence 0.5 mi W. of tablet; T. 87 N., R. 29 W., cor. secs. 7, 8, 17 and 18, 34 ft S., 27 ft W. of and 1.9 ft lower than crossroads; in W. side of power pole; a lag bolt; painted "UE 1155.4"		1155.36
14 12.2	Callender, 1.5 mi S. and 1.5 mi E. of; T. 87 N., R. 29 W., near cor. secs. 17, 18, 19 and 20; 262 ft S., 31 ft E. of and 2.4 ft lower than crossroads; 2 ft E. of power pole; in top of concrete post; standard tablet stamped "16 WMC 1964 1159" painted "EM 1159.2"		1159.147
15 12.2	Reference mark, 345 ft S. of tablet; in SE. side of power pole; a lag bolt; painted "RM"		1159.34
13.1	UE 16 WMC A, 1.0 mi S. of tablet; T. 87 N., R. 29 W., cor. secs. 19, 20, 29 and 30; 92 ft S., 32 ft W. of and 3.0 ft lower than crossroads; in power pole; a lag bolt; painted "UE 1156.6"		1156.60
16 14.1	UE 16 WMC B, 1.96 mi S. of tablet; T. 87 N., R. 29 W., cor. secs. 29, 30, 31 and 32; 19 ft N., 28 ft W. of and 2.5 ft lower than crossroads; on top of round concrete culvert; a chiseled square; painted "UE 1156.6"		1156.58
17 15.1	UE 16 WMC C, 2.93 mi S. of tablet; Tps 86 and 87 N., R. 29 W., near cor. secs. 5, 6, 31 and 32; 150 ft N., 30 ft E. of and 2.5 ft lower than center of rd. at T-rd. W.; on top of concrete culvert; a chiseled square; painted "UE 1148.1"		1148.00
18 15.8	Reference mark, 175 ft N. of tablet; on S. end of concrete culvert; a chiseled square; painted "RM"		1149.98
15.8	Gowrie, 0.5 mi N. and 1.5 mi E. of; T. 86 N., R. 29 W., about 900 ft S. of quarter cor. between secs. 5 and 6, 385 ft S., 33 ft E. of rd. at drive E. to farmhouse; 2 ft S. of a telephone pole; in top of concrete post; standard tablet stamped "17 WMC 1964 1149" painted "EM 1148.9"		1148.834
20 16.2	UE 17 WMC A, 0.38 mi S. of tablet T. 86 N., R. 29 W., cor. secs. 5, 6, 7 and 8; 247 ft S., 32 ft E. of and 3.1 ft lower than crossroads; on top of S. end of concrete culvert at drive E.; a chiseled square; painted "UE 1149.7"		1149.64
21 17.1	UE 17 WMC B, 1.33 mi S. of tablet; T. 86 N., R. 29 W., cor. secs. 7, 8, 17 and 18; 43 ft N., 28 ft W. of and 2.1 ft lower than crossroads; on top of concrete culvert; a chiseled square; painted "UE 1146.9"		1146.75
22 18.1	UE 17 WMC C, 2.35 mi S. of tablet; T. 86 N., R. 29 W., cor. secs. 17, 18, 19 and 20; 49 ft S., 24 ft W. of and 3.1 ft lower than T-rd. E.; on top of concrete culvert; a chiseled square; painted "UE 1134.0"		1133.91
23 18.6	UE 17 WMC D, 2.85 mi S. of tablet; T. 86 N., R. 26 W., quarter cor. between secs. 19 and 20; 25 ft S., 28 ft E. of and 2.4 ft lower than T-rd. W.; in W. side of power pole; a lag bolt; painted "UE 1140.3"		1140.20
		<u>JEFFERSON QUAD. - 153</u>	
24 19.6	"10 T 1960 1142" (described in Line 3)		1142.670

LINE 9

Feet

WEST FROM CENTER OF EAST BORDER (W. K. Mc Carley, 1964; CV 1770)

GOWRIE QUAD. - 178

2 27 0.0	"UE 15 WMC B" (described in Line 8)	1149.99
1.0	UE 15 WMC D, 1.8 mi S. thence 0.97 mi W. of tablet; Tps. 87 and 88 N., Rs. 29 and 30 W., cor. secs. 1, 6, 31 and 36; 22 ft S., 64 ft W. of and 0.8 ft lower than crossroads; on top of SE. end of SE. wingwall; a chiseled square; painted "UE 1143.0"	1142.98
28 2.0	UE 15 WMC E, 1.8 mi S. thence 1.95 mi W. of tablet; Tps. 87 and 88 N., R. 30 W., cor. secs. 1, 2, 35 and 36, 33 ft S., 55 ft E. of center of Y-intersection, on top of concrete culvert; a chiseled square; 1.8 ft lower than E.-W. rd. at rd. N.; painted "UE 1157.4"	1157.41
29 2.5	Reference mark, 205 ft NNW. of tablet; 33 ft S., 35 ft W. and 1.0 ft lower than T-rd. S.; on top of concrete culvert; a chiseled square; painted "RM"	1146.85
2.5	Callender, 1.5 mi N. and 1.0 mi W. of; Tps. 87 and 88 N., R. 30 W., near quarter cor. between secs. 2 and 35, 226 ft S., 32 ft E. of T-rd. S.; 3 ft NW. of a fence post; in top of concrete post standard tablet stamped "18 WMC 1964 1150" painted "EM 1149.9"	1149.827
30 3.1	UE 18 WMC A, 0.5 mi W. of tablet; Tps. 87 and 88 N., R. 30 W., cor. secs. 2, 3, 34 and 35; 24 ft S., 120 ft W. of and 3.0 ft lower than crossroads; on top of concrete culvert; a chiseled square; painted "UE 1146.7"	1146.66
31 4.0	UE 18 WMC B, 1.5 mi W. of tablet; Tps. 87 and 88 N., R. 30 W., cor. secs. 4, 3, 33 and 34; 24 ft S., 250 ft E. of and 3.4 ft lower than crossroads; on top of concrete culvert; a chiseled square; painted "UE 1154.7"	1154.70
33 5.1	UE 18 WMC C, 2.5 mi W. of tablet; Tps. 87 and 88 N., R. 30 W. cor. secs. 4, 5, 32 and 33, 206 ft W., 32 ft S. of and 3.8 ft lower than Trd. N.; on top of concrete culvert; a chiseled square; painted "UE 1159.9"	1159.85
34 6.1	UE 9 WMC D" (described in Line 6)	1151.80