

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

Final Adjustment of 1972

Kossuth and Humboldt Counties

Edition of: 1-4-73

PR: AKH/ob

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

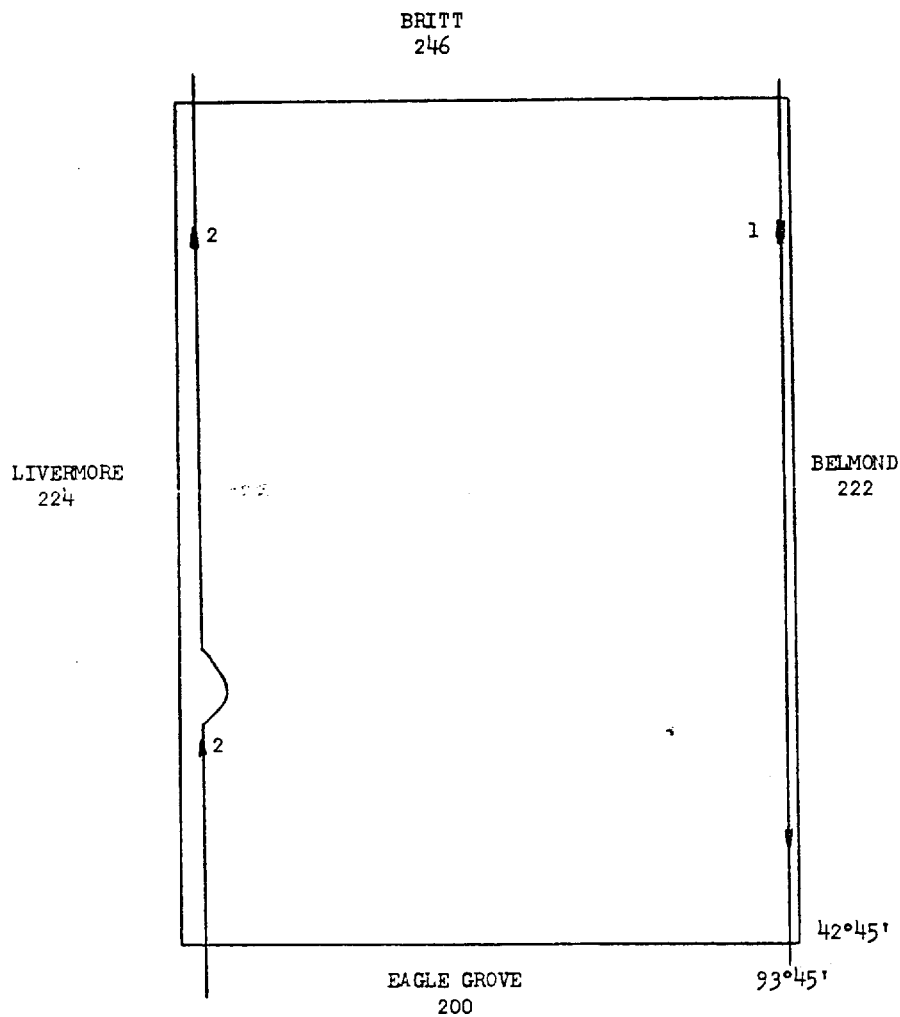
CORWITH QUADRANGLE

223 - IOWA

N4245-W9345/15

DIAGRAM NK 15-5

WATERLOO



223-A

LINE 1

FEET

G. Sandul, 1972; Book CV-2850

BRITT QUAD. - 246

- 3 15 10.2 UE 26 B, 1.9 mi S. of BM along gravel rd., near cor. secs. 25, 26, 35 and 36, T. 95 N., R. 25 W., 47 ft S. and 35 ft W. of centerline of crossroads, in base on NE. side of cor. fence post, a RR. spike, painted "UE" 1249.78

CORWITH QUAD. - 223

- 16 10.9 Britt, 6.75 mi S. and 2.5 mi E. of, 4.25 mi N. and 2.0 mi E. of Kanawha, about 1100 ft S. of rd. at E.-W. fence at quarter cor. between secs. 35 and 36, T. 95 N., R. 25 W., 232 ft NNE. of NE. corner of house owned by Morris A. Nuehring, 54 ft normal and on W. side of centerline of rd., at N. edge of shelter grove, 20.5 ft W. of N.-S. right-of-way fence, 1.5 ft S. of E.-W. fence, 0.8 ft S. of white witness sign, and 10.4 ft NW. of 12-in. pine tree, set on the top of 10 ft copper coated steel rod, a standard tablet stamped "27 SAN 1972" 1250.145
- 17 10.9 Reference mark, 98 ft SE. of BM and across rd., 51 ft S. and 30 ft E. of centerline of rd. at fence W., in base on W. side of power pole, a RR. spike, painted "RM" 1251.35
- 18 11.2 UE 27 A, 0.3 mi S. of BM along gravel rd., near cor. secs. 1, 2, 35 and 36, Tps. 94 and 95 N., R. 25 W., 29 ft S. and 16 ft W. of centerline of crossroads, on W. end of corrugated steel culvert, top of stove bolt, painted "UE" 1242.54
- 19 12.2 UE 27 B, 1.3 mi S. of BM along gravel rd., near cor. secs. 1, 2, 11 and 12, T. 94 N., R. 25 W., 37 ft S. and 31 ft E. of centerline of crossroads, in base on W. side of power pole, a RR. spike, painted "UE" 1238.30
- 20 13.2 Kanawha, 2.0 mi N. and 2.0 mi E. of, near cor. secs. 11, 12, 13 and 14, T. 94 N., R. 24 W., 38 ft S. and 45 ft E. of centerline of crossroads, 6.2 ft S. and 1.2 ft E. of fence corner, 7.6 ft SE. of power pole, 0.9 ft N. of white witness sign; top of 10 ft copper coated steel rod, a standard tablet stamped "28 SAN 1972 RESET" 1242.217
- 21 13.2 Reference mark, about 182 ft S. of BM (new position) 13 ft S. and 46 ft E. of centerline of rd. at drive E. to barn, in base of S. wooden fence post of driveway gate (NE. side post), a RR. spike 1240.159
- 22 14.1 UE 28 A, 0.85 mi S. of BM along gravel rd., about 720 ft N. along rd. from crossroads, at cor. secs. 13, 14, 23 and 24, T. 94 N., R. 25 W., 11 ft normal and on E. side of centerline of rd., 7.3 ft above drain, on top in center of E. headwall of concrete box culvert, a chiseled square, painted "UE" 1205.90
- 24 15.2 UE 28 B, 2.0 mi S. of BM along gravel rd., near cor. secs. 23, 24, 25 and 26, T. 94 N., R. 25 W., 41 ft S. and 33 ft E. of centerline of crossroads, in base on W. side of cor. fence post, a RR. spike, painted "UE" 1218.02
- 25 16.1 Kanawha, 0.9 mi S. and 2.0 mi E. of, about 875 ft N. of centerline of crossroads, (E.-W.) Co. Hwy. B 63, at cor. secs. 25, 26, 35 and 36, T. 94 N., R. 25 W., 67.2 ft NNW. of fourth power pole (E. side of rd.), N. of crossroads; 13 ft normal and on E. side of centerline of rd., set in the center of E. headwall of 4 ft by 4 ft concrete box culvert, a standard tablet stamped "29 SAN 1972" 1202.092
- 26 16.2 Reference mark, about 920 ft S. of BM, 46 ft S. and 42 ft E. of centerline of crossroads, in base on W. side of corner fence post, a RR. spike, painted "RM" 1205.35

LINE 1 (Cont'd)

CORWITH QUAD. - 223

FEET

3	27	17.3	UE 29 A, 1.25 mi S. of BM along gravel rd., near cor. secs. 1, 2, 35 and 36, Tps. 93 and 94 N., R. 25 W., 429 ft S. and 17 ft W. of centerline of T-rd. W., on W. end of concrete pipe culvert, a chiseled square, painted "UE"	1197.63
28	18.1		Kanawha, 2.75 mi S. and 2.0 mi E. of, about 1720 ft N. of Y-rds. at cor. secs. 1, 2, 11 and 12, T. 93 N., R. 25 W., 88.0 ft SSW. of the sixth pole (E. side of rd.) N. of crossroads, 13 ft normal and on E. side of centerline of rd., set in the center of E. headwall of 5 ft by 4.5 ft concrete box culvert, a standard tablet stamped "30 SAN 1972"	1209.582
29	18.4		Reference mark, about 1760 ft S. of BM, 35 ft S. and 32 ft W. of centerline of crossroads, in base on E. side of corner fence post, a RR. spike; painted "RM"	1208.86
30	19.4		UE 30 A, 1.35 mi S. of BM along gravel rd., near cor. secs. 11, 12, 13 and 14, T. 93 N., R. 25 W., 56 ft S. and 18 ft W. of centerline of crossroads, on W. end of concrete pipe culvert, a chiseled square, painted "UE"	1208.69
31	20.4		UE 30 B, 2.35 mi S. of BM along gravel rd., near cor. secs. 13, 14, 23 and 24, T. 93 N., R. 25 W., 36 ft S. and 26 ft E. of centerline of crossroads, on S. end flanged concrete pipe culvert, a chiseled square, painted "UE"	1207.43
32	20.7		Kanawha, 5.4 mi S. and 2.0 mi E. of, about 825 ft N. along rd. from rd. at fence W., at quarter cor. between secs. 23 and 24, T. 93 N., R. 25 W., 27.8 ft SW., of the SW. corner of on an abandoned house, 38 ft N. and 144 ft W. of centerline of rd. at drive W., 86.0 ft NNE. of NE. corner of a barn, 6.5 ft ENE. of a power pole with security yard light, 1.1 ft N. and 1.2 ft E. of SW. corner of board fence, 0.8 ft NE. of white witness sign set on the top of 10 ft copper coated steel rod, a standard tablet stamped "31 SAN 1972"	1208.090
33	20.8		Reference mark, 113 ft SE. of BM, 7 ft S. and 44 ft W. of centerline of rd. at drive W., in base on NE. side of 24-in. tree, a RR. spike	1210.40
34	21.4		UE 31 A, 0.65 mi S. of BM along gravel rd., near cor. secs. 23, 24, 25 and 26, T. 93 N., R. 25 W., 32 ft S. and 33 ft W. of centerline of crossroads, in base on NE. side of corner fence post, a RR. spike, painted "UE"	1219.39
35	22.5		UE 31 B, 1.7 mi S. of BM along gravel rd., about 340 ft S. of cor. secs. 25, 26, 35 and 36, T. 93 N., R. 25 W., 33 ft N. and 14 ft W. of centerline of wooden bridge, 14.8 ft above water level, on top of wooden retaining wall support driven vertical, a copper nail and washer, painted "UE"	1184.16
36	23.4		UE 31 C, 2.6 mi S. of BM along gravel rd., Tps. 92 and 93 N., R. 25 W., 26 ft N. and 27 ft W. of centerline of rd. at E.-W. fence, on N. end of corrugated steel culvert, under field approach W., top of stove bolt, painted "UE"	1190.71
37	23.9		Kanawha, 8.5 mi S. and 2.0 mi E. of, 5.5 mi N. and 1.0 mi W. of Clarion, near quarter cor. between secs. 1 and 2, T. 92 N., R. 25 W., 350 ft N. along rd. from centerline rd. at fence W., 78 ft S. along rd. from centerline rd. at short barnyard fence E., 13 ft normal and W. side of centerline rd. set in the center of W. headwall of 2 ft by 3 ft concrete box culvert, a standard tablet stamped "32 SAN 1972"	1187.031
38	24.0		Reference mark, 355 ft SSE. of BM, 34 ft normal and on E. side of centerline of rd. at fence W., in base on NW. side of N. gate post, a RR. spike; painted "RM"	1189.59
39	25.0		UE 32 A, 1.1 mi S. of BM along gravel rd., near quarter cor. between secs. 11 and 12, T. 92 N., R. 25 W., 44 ft S. and 24 ft E. of centerline of crossroads, on highest (small round flat spot) point of steel drainage intake and stamped "UE" painted "UE"	1173.27

LINE 1 (Cont'd)

CORWITH QUAD. - 223

FEET

- 3 40 25.9 UE 32 B, 2.0 mi S. of BM along gravel rd., 265 ft N. along rd. from centerline of rd. at E.-W. fence at quarter cor. between secs. 13 and 14, T. 92 N., R. 25 W., 16 ft normal and on W. side of centerline of rd., on W. end of concrete pipe culvert, a chiseled square; painted "UE" 1165.90
- 41 26.5 Reference mark, 139 ft WNW. of BM, 55 ft N. and 28 ft W. of centerline of crossroads, on N. end of concrete pipe culvert (flanged), a chiseled square, painted "RM" 1157.17
- 42 26.5 Clarion, 3.0 mi N. and 1.0 mi W. of, near cor. secs. 13, 14, 23 and 24, T. 92 N., R. 25 W., 15 ft S. and 104 ft E. of centerline of crossroads, 19.2 ft above water level of Little Eagle Creek set in the center (highest flat part) of SW. concrete guard rail of bridge, a standard tablet stamped "33 SAN 1972" 1161.694
- 43 27.5 UE 33 A, 1.0 mi S. of BM along gravel rd., near cor. secs. 23, 24, 25 and 26, T. 92 N., R. 25 W., 53 ft S. and 26 ft E. of centerline of crossroads, on S. end of concrete pipe culvert under field approach E., a chiseled square, painted "UE" 1149.86
- 44 28.5 UE 33 B, 2.0 mi S. of BM along gravel rd., near cor. secs. 25, 26, 35 and 36, T. 92 N., R. 25 W., 35 ft N. and 32 ft W. of centerline of T-rd. N., on W. end of flanged concrete pipe culvert, a chiseled square, painted "UE" 1153.70

EAGLE GROVE QUAD. - 200

- 46 30.0 Clarion, 0.75 mi SW. along the Chicago Great Western RR. from station at, near center NW $\frac{1}{4}$ of sec. 1, T. 91 N., R. 25 W., about 275 yards W. along RR. from crossing, of N.-S. county rd., 44.9 ft N. of the N. rail of the main track, 8.3 ft ENE. of the fifth pole on N. side of track W. of rd. crossing, 1.7 ft S. of N. right-of-way fence, and 302 ft E. along main track from a switch, set in the top of concrete post projecting about 1-in., a standard disk stamped "L 28 1934" 1160.332

LINE 2

W.E. Knouse, 1972; Book CV-2870

EAGLE GROVE QUAD. - 200

- 3 12 4.4 UE 10 D, T. 92 N., R. 27 W., near quarter cor. sec. 35 and 36; centerline of rd. at E.-W. fence, top of RR. spike in gravel rd. 1150.7
- 13 4.9 UE 10 E, T. 92 N., R. 27 W., near cor. secs. 25, 26, 35 and 36, on top of W. end of N. wheel guard of bridge and 0.2 ft higher than center of bridge and 18.3 ft higher than Water Level (06-24-72); copper nail and washer 1126.10

CORWITH QUAD. - 223

- 14 5.3 Reference mark 11 WEK, T. 92 N., R. 27 W., about 0.1 mi S $\frac{1}{4}$ cor. secs. 25 and 26, 34 ft E. and 8 ft N. of rd. at a field entrance E.; in base of N. gate post and in W. side #60 penny nail 1126.13
- 15 5.3 Renwick, 5.0 mi S. and 0.5 mi W. from, 3.0 mi E. and 4.5 mi N. of Thor; T. 92 N., R. 27 W., about 0.1 mi S. of cor. secs. 25 and 26; 34 ft E. and 15 ft N. of centerline of rd. at field entrance E., 1 ft W. of E. right-of-way fence; a standard cap on top of copper rod and encased in 6-in. by 1 ft piece of well casing; stamped "11 WEK 1972" 1125.630
- 17 5.9 UE 11 B, T. 92 N., R. 27 W., near cor. secs. 23, 24, 25 and 26; centerline of gravel rd. at E.-W. fence; top of RR. spike 1139.9
- 18 6.4 UE 11 C, T. 92 N., R. 27 W., near quarter cor. secs. 23 and 24; 80 ft S. and 31 ft E. of rd. at fence E.; in W. side of telephone pole and near ground level; # 60 penny nail 1130.13

<u>LINE 2 (Cont'd)</u>		<u>CORWITH QUAD. - 223</u>	<u>FEET</u>
3	20	6.9 UE 11 D, T. 92 N., R. 27 W., near cor. secs. 13, 14, 23 and 24; crossroads, top of monel metal nail in asphalt rd. and flush with rd. surface	1143.5
	21	7.4 UE 11 E, T. 92 N., R. 27 W., near quarter cor. secs. 13 and 14; centerline of gravel rd. fence W.; top of RR. spike	1141.4
	22	7.0 UE 11 F, T. 92 N., R. 27 W., near cor. secs. 11, 12, 13 and 14; crossroads, top of RR. spike (in gravel crossroads)	1126.3
	24	8.4 RM 12 WEK, T. 92 N., R. 27 W., near quarter cor. secs. 11 and 12; 3/4 ft W. of centerline of rd. at fence W., in E. base of fence corner post; #60 penny nail	1130.42
	25	8.5 BM 12 WEK, Renwick 2.0 mi S. and 0.5 mi W. from along county dirt roads; T. 92 N., R. 27 W., about 400 ft N. of quarter cor. secs. 11, and 12, 32 ft W. of centerline of rd.; 1 ft E. of W. right-of-way fence on top of copper coated rod and encased in a 6-in. by 1 ft piece of well casing; a standard cap stamped "12 WEK 1972"	1127.006
	27	8.9 UE 12 A, T. 92 N., R. 27 W., near cor. secs. 1, 2, 11 and 12, 33 ft N. and 32 ft E. of crossroads, in N. side of power pole and about 0.8 ft above ground level; RR. spike	1131.91
	29	9.6 UE 12 B, T. 92 N., R. 27 W., near N. sixteenth cor. secs. 1 and 2, on top and center of W. headwall of concrete bridge and 1.3 ft higher than center of rd. at bridge and 16.5 ft higher than water level; chiseled square	1128.98
	31	10.5 UE 12 C, T. 92 and 93 N., R. 27 W., near quarter cor. secs. 1 and 36; road at curve 0.5 in. S. of Renwick; copper nail and washer	1137.65
	32	11.0 RM 13 WEK, T. 93 N., R. 27 W., about 300 ft N. of center sec. 36 in Renwick; where N.-S. street W. edge meets E.-W. main street cross streets; copper nail and washer	1155.80
	33	11.0 BM 13 WEK, At Renwick, in West portion of town, 85 ft W. of street intersection (N.-S.) street and E.-W. street) the E.-W. street makes turn to NW. at intersection 19.5 ft N. of projected centerline of E.-W. street 39 ft SE. of centerline of E.-W. street after it turns NW.; 3.5 ft SW. of NE. cor. of sidewalk 3.5 ft ENE. of NE. cor. of Nutrena Feeds Office Building, 4 ft NW. of W. edge of scale, set in sidewalk a standard cap stamped "13 WEK 1972"	1156.146
	34	11.6 UE 13 A, T. 93 N., R. 27 W., near W. sixteenth cor. sec. 36 and 25, just W. of junction of asphalt and gravel rds. centerline of rd. a RR. crossing; copper nail and washer	1137.3
	35	12.1 UE 13 B, T. 93 N., R. 27 W., near quarter cor. secs. 25 and 26; centerline of gravel rd. at E.-W. fence; top of RR. spike	1130.2
	36	12.6 UE 13 C, T. 93 N., R. 27 W., about 450 ft S. of cor. secs. 23, 24, 25 and 26; 13 ft W. of centerline of rd. at drain; 6.0 ft above water level of drain and 0.6 ft higher than centerline rd. at drain; on top and center of W. headwall of culvert; chiseled cross	1119.13
	38	13.0 UE 13 D, T. 93 N., R. 27 W., about 600 ft S. of quarter cor. secs. 23 and 24, on center of W. wooden wheel rail of bridge and 0.2 ft higher than center of bridge floor and 12.6 ft above water level (06-26-72); copper nail and washer	1116.09
	40	13.7 Renwick, 2.5 mi N. and 0.5 mi W. from along county rd. P 76, 4.5 mi E. and 3.5 mi S. from Luverne; T. 93 N., R. 27 W., near cor. secs. 13, 14, 23 and 24, on SW. wing of bridge over creek, a standard cap stamped "14 WEK 1972"	1116.843

<u>LINE 2 (Cont'd)</u>		<u>CORWITH QUAD. - 223</u>	<u>FEET</u>
3 41	13.8	RM 14 WEK, T. 93 N., R. 27 W., near cor. secs. 13, 14, 23 and 24; center of floor of br. over Creek, and 15.0 ft above water level (06-20-72); chiseled cross	1115.95
43	14.4	UE, T. 93 N., R. 27 W., in E. central portion sec. 14; center floor of bridge over creek; chiseled square 10 ft above water level (06-26-72)	1115.83
44	14.9	UE, T. 93 N., R. 27 W., near cor. secs. 11, 12, 13 and 14, centerline of T-rd. W., top of RR. spike in gravel T-rd.	1122.7
45	15.4	UE, T. 93 N., R. 27 W., near quarter cor. secs. 11 and 12; centerline of rd. at E.-W. fence; top of RR. spike in gravel rd.	1121.5
46	15.9	UE, T. 93 N., R. 27 W., near cor. secs. 1, 2, 11 and 12; centerline of crossroads; RR. spike in gravel rd.	1125.5
47	16.4	UE, T. 93 N., R. 27 W., near quarter cor. secs. 1 and 2, centerline of rd. at fence E., RR. spike in gravel road	1155.4
48	16.8	BM 15 WEK, Luverne, 4.5 mi E. and 0.5 mi S. from along county roads C 12 and P 76, T. 93 N., R. 27 W., about 1250 ft S. of county line between N $\frac{1}{4}$ secs. 1 and 2; 15 ft W. of centerline of rd.; on top of W. headwall of culvert; a standard tablet stamped "15 WEK 1972"	1135.813
49	16.8	RM 15 WEK, T. 93 N., R. 27 W., about 1250 ft S. of countyline; between N $\frac{1}{4}$ secs. 1 and 2, 15 ft E. of centerline of rd. on top of E. headwall of culvert; chiseled square	1135.83
50	17.0	UE 15 A, T. 93 and 94 N., R. 27 W., near cor. secs. 1, 2, 35 and 36, center of crossroads, top monel metal nail	1146.5
51	17.5	UE 15 B, T. 94 N., R. 27 W., near quarter cor. secs. 35 and 36; centerline of rd. at E.-W. fence; top of RR. spike in center of gravel rd.	1144.8
52	18.0	UE 15 C, T. 94 N., R. 27 W., near cor. secs. 25, 26, 35 and 36; center of gravel crossroads; top RR. spike	1167.66
53	18.5	UE 15 D, T. 94 N., R. 27 W., near quarter cor. secs. 25 and 26; center gravel rd. at E.-W. fence; top RR. spike	1162.1
54	19.0	UE 15 E, T. 94 N., R. 27 W., near cor. secs. 23, 24, 25 and 26; 63 ft S. and 23 ft W. of crossroads; on top of W. end of concrete pipe culvert; a chiseled square	1165.08
56	19.5	UE 15 F, T. 94 N., R. 27 W., near quarter cor. secs. 23 and 24, center of gravel rd. at E.-W. fence, top of solid piece of gravel	1180.6
57	19.8	RM 16 WEK, T. 94 N., R. 27 W., about 0.2 mi S. of cor. secs. 13, 14, 23 and 24, 22 ft E. of centerline of rd. at culvert; on top of E. end of concrete pipe culvert; a chiseled cross	1168.23
58	19.9	BM 16 WEK, Luverne; 2.5 mi N. and 4.5 mi E. from along county rds. C 12 and dirt rd. 9.3 mi S. of Wesley, T. 94 N., R. 27 W., about 0.2 mi S. of cor. secs. 13, 14, 23 and 24; 22 ft W. of centerline of rd. at culvert, on top of W. end of large concrete pipe culvert; a standard cap stamped "16 WEK 1972"	1168.712
60	21.0	UE 16 B, T. 94 N., R. 27 W., near cor. secs. 11, 12, 13 and 14, centerline of crossroads; top RR. spike, in gravel crossroad	1172.6

<u>LINE 2 (Cont'd)</u>		<u>CORWITH QUAD. - 223</u>	<u>FEET</u>
3 61	21.4	UE 16 C, T. 94 N., R. 27 W., about 0.3 mi N. of cor. secs. 11, 12, 13 and 14; center of RR. crossing; copper nail and washer	1175.0
62	21.5	UE 16 D, T. 94 N., R. 27 W., near quarter cor. secs. 11 and 12, centerline of rd. at fence W., top of RR. spike (rd. is gravel) (PP A rd. at fence line Flt. 1 - Photo)	1176.1
63	22.0	UE 16 E, T. 94 N., R. 27 W., near cor. secs. 1, 2, 11 and 12; centerline of T-rd. W., top of RR. spike (rd. gravel)	1178.2
64	22.5	UE 16 E, T. 94 N., R. 27 W. near quarter cor. secs. 1 and 2; centerline gravel rd. at E.-W. fence; top of RR. spike	1174.4
65	22.9	RM 17 WEK, T. 94 and 95 N., R. 27 W., about 300 ft S. of cor. secs. 1, 2, 35 and 36; on top of E. end of large concrete pipe culvert and 21 ft E. of centerline of culvert; a chiseled cross	1173.69
66	22.9	BM 17 WEK, Wesley; 6.3 mi S. from; along county rd. R 14, 1.5 mi W. from Corwith, T. 94 and 95 N., R. 27 W. near cor. secs. 1, 2, 35 and 36; about 300 ft S. of crossroads, 22 ft W. of centerline of rd. at culvert; on top of W. end of large concrete pipe culvert; a standard cap stamped "17 WEK 1972"	1173.839
<u>BRITT QUAD. - 246</u>			
68	23.5	UE 17 B, T. 95 N., R. 27 W., near quarter cor. secs. 35 and 36; centerline rd. at E.-W. fence; copper nail and washer	1177.8
69	24.0	UE 17 C, T. 95 N., R. 27 W., near cor. secs. 25, 26, 35 and 36; centerline of crossroads, copper nail and washer	1173.8