

THIRD-ORDER LEVELING

SEA LEVEL DATUM OF 1929

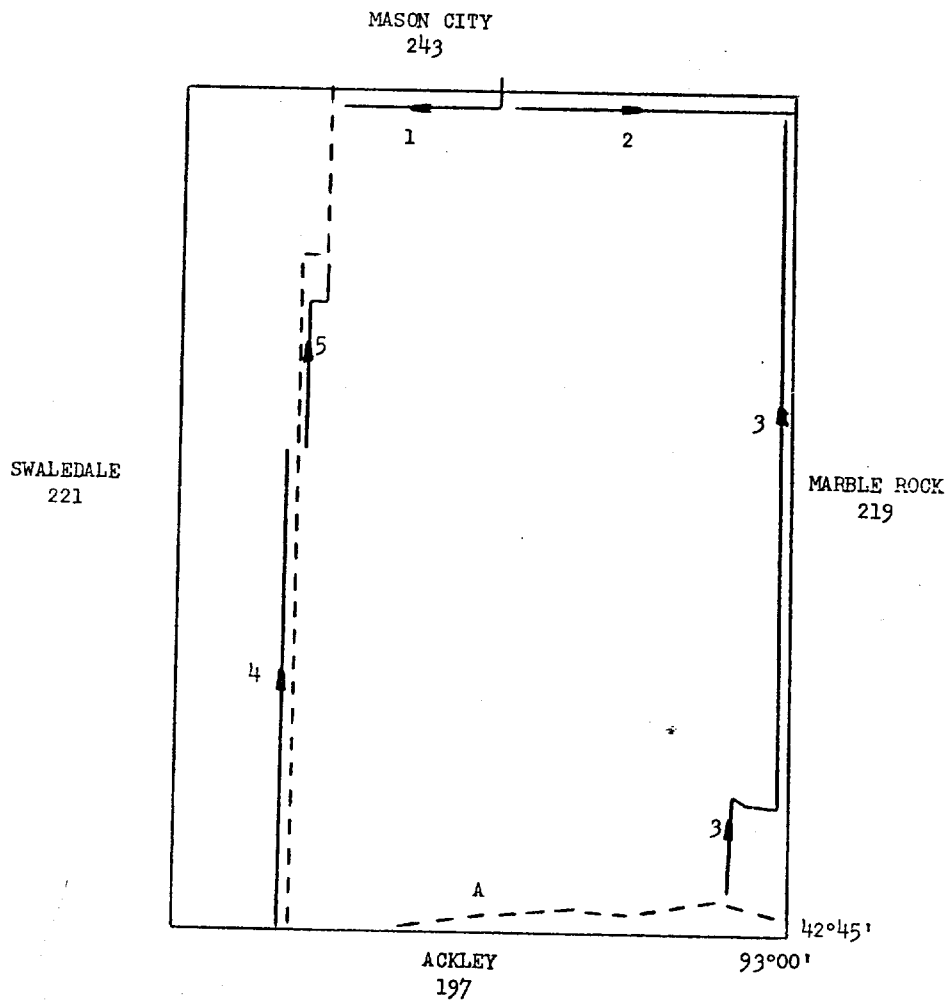
Butler, Cerro Gordo, Floyd and Franklin
Counties

Edition of: 1-3-73

PR: AKH/cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ROCKWELL QUADRANGLE
220 - IOWA
N4245-W9300/15
DIAGRAM NK 15-5
WATERLOO



N.G.S. (USC&GS) VERTICAL CONTROL DATA

Quadrangle 420931

220-B

LINE 1

FEET

W.H. Veatch, 1957; Book CV-842

MASON CITY QUAD. - 243

- 7.5 Portland, 7.5 mi S. of along gravel rd., 3.0 mi N. and 3.0 mi E. from Rockwell, T. 95 N., R. 19 W., 168 ft N., 38 ft E. and 2.5 ft lower than centerline of rd. at crossroads, at approx. cor. of secs. 19, 20, 29 and 30, 2 ft N. of power pole, 1 ft W. of fence line, in a concrete post, a standard tablet stamped "8 WHV 1957" 1170.982
- 7.5 Reference mark, 149 ft S. of tablet, 19 ft N. and 36 ft E., centerline of rd. at crossroads, on the N. end of a 24-in. steel pipe culvert, a punched hole 1174.34
- 8.6 UE 8 B, 1.0 mi S. of tablet, along gravel rd., T. 95 N., R. 19 W., at cor. secs. 29, 30, 31 and 32, 26 ft S., 34 ft E. and 3.4 ft lower than centerline of rd., at crossroads, on the S. end of a 24-in. steel pipe culvert, a punched hole 1170.4
- 9.5 Reference mark, 4.4 ft E. of tablet, along rd., 32 ft N., 24 ft E. of centerline of rd. at crossroads, on the W. end of a 24-in. steel culvert, a punched hole 1164.23
- 9.6 Rockwell, 0.75 mi N. and 2.9 mi E. from, 1.9 mi W. of Cartersville, Tps. 94 and 95 N., R. 19 W., 34 ft S., 434 ft W. and 1.8 ft lower than center of crossroads, at approx. cor. of secs. 5, 6, 31 and 32, 389 ft W. of corner post of fences S. and W., 1 ft N. and 4 ft E. of corner post of T-fence S. and 1 ft N. of woven wire fence, in a concrete post, a standard tablet stamped "TT 30 EV 1957" (1165 ft)(Not found, probably dest. 6-72) 1165.212
- 10.5 UE 30 A, 0.9 mi W. of tablet, along gravel rd., Tps. 94 and 95 N., Rs. 19 and 20 W., at cor. secs. 1, 6, 31 and 36, 11 ft S., 63 ft W. and 0.8 ft higher than centerline of rd., at crossroads in center of S. headwall of concrete culvert, a chiseled square 1140.74
- 11.5 Rockwell, 0.7 mi N. and 1.0 mi E. from, Tps. 94 and 95 N., R. 20 W., 33 ft N., 285 ft E. and 0.5 ft lower than center of crossroads, at approx. cor. of secs. 1, 2, 35 and 36, 253 ft E. of corner post of fences N. and E., 1 ft N. and 5 ft E. of telephone pole and 1 ft S., of fence line, in a concrete post, a standard tablet stamped "TT 31 EV 1957" 1147.586
- 11.5 Reference mark, 255 ft W. of tablet, 16 ft N. 32 ft E. of centerline of rd. at crossroads, in center of the NE. headwall of concrete culvert, a chiseled square 1148.62
- 13.0 BM 17 250, about 0.05 mi N. along County Rd., "M" from the N. city limits at Rockwell, Cerro Gordo County, about 0.05 mi N. of the N. quarter corner of sec. 3, T. 94 N., R. 20 W., on the W. side of a rd. and 37.9 ft S. of toll-line pole 1562. A state Survey standard disk stamped "17 250" and set in the top of a concrete post (Elev. by USC&GS) 1120.441

LINE 2

W.H. Veatch, 1957; Book CV-842

ROCKWELL QUAD. - 220

- 0.0 BM "TT 30 EV 1957" (Described in Line 1) 1165.212
- 1.1 UE 30 D, 1.1 mi E. of tablet along gravel rd., Tps. 94 and 95 N., R. 19 W., at cor. of secs. 4, 5, 32 and 33, 32 ft S., 20 ft E. and 2.8 ft lower than centerline of rd. at crossroads, on the N. end of a 12-in. steel pipe culvert, a punched hole 1157.8
- 1.6 UE 30 E, 1.5 mi E. of tablet along gravel rd., Tps. 94 and 95 N., R. 19 W., at quarter cor. between secs. 4 and 32, centerline of rd. opposite fence line N. 1170.9
- 2.0 Rockwell, 0.75 mi N. and 5.0 mi E. from, in village of Cartersville, Tps. 94 and 95 N., R. 19 W., 31 ft N., 333 ft W. and 1.6 ft lower than centerline of County Hwy. "J" at crossroads, at approx. cor. secs. 3, 4, 33 and 34, 31 ft N. and 29 ft E. of centerline of rd. at street crossing, 5 ft S. and 167 ft E. of SE. corner of Cartersville Store, in a concrete post; standard tablet stamped "TT 29 EV 1957"(BM was removed and RESET in its original location) (Reported not found 6/72 JLK) 1178.969

<u>LINE 2 (Cont'd)</u>	<u>ROCKWELL QUAD. - 220</u>	<u>FEET</u>
2.0 Reference mark, 329 ft E. of tablet, 71 ft S., 15 ft W. of centerline of rd. at crossroads, in center of the W. concrete headwall of culvert, a chiseled square		1180.75
3.1 UE 29 A, 1.1 mi E. of tablet, along gravel rd., Tps. 94 and 95 N., R. 19 W., at approx. cor. of secs. 2, 3, 34 and 35, 29 ft S., 30 ft W. and 1.6 ft lower than centerline of rd. at crossroads, a RR. spike in N. side of power pole projecting 8-in. above the ground		1153.59
4.1 Rockford, 4.0 mi S. and 5.0 mi W. from, 2.0 mi E. of Cartersville, 0.75 mi N. and 7.0 mi E. of Rockwell, 1.0 mi W. of Cerro Gordo, Floyd County Line, Tps. 94 and 95 N., R. 19 W., 33 ft S., 313 ft W. and 1.9 ft higher than center of crossroads, at approx. cor. of secs. 1, 2, 35 and 36, 272 ft W. of corner post of fence S. and W., and 1 ft N. of fence line, in a concrete post, a standard tablet stamped "TT 28 EV 1957" (not found, 6-72, JLK)		1127.075
4.1 Reference mark, 352 ft E. of tablet, 32 ft S., 37 ft E. of centerline of rd., at crossroads, 3 ft W. of power pole, top of concrete right-of-way marker, projecting 1 ft above ground, a chiseled square		1122.72
4.4 UE 28 A, 0.3 mi E. of tablet, along gravel rd., 11 ft S. and 2.9 ft higher than center of bridge over creek in center of the S. concrete headwall, a chiseled square		1102.23
5.1 UE 28 B, 1.1 mi E. of tablet, along gravel rd., Tps. 94 and 95 N., Rs. 18 and 19 W., at cor. of secs. 1, 6, 31 and 36, 26 ft N., 21 ft W. and 1.4 ft lower than centerline of rd. at T-rd. N., on the W. end of a 24-in. concrete pipe culvert, a chiseled square		1111.44
6.1 Reference mark, 124 ft SE. of tablet, 74 ft N., 92 ft E. of centerline of rd., at crossroads, on the SW. corner of concrete floor, at entrance to schoolhouse, a chiseled square		1119.40
6.1 Rockford, 4.0 mi S. and 3.0 mi W. from, 4.0 mi E. from Cartersville, Tps. 94 and 95 N., R. 18 W., 184 ft N., 32 ft E. and 0.2 ft higher than centerline of crossroads, at approx. cor. of secs. 5, 6, 31 and 32, 76 ft N. and 52 ft W. of NW. cor. of abandoned schoolhouse, 106 ft N. and 12 ft W. of center of 30-in. elm tree, 14 ft N. of corner post of NW. cor. of school yard, 2 ft N. and 1 ft E. of telephone pole, and 1 ft W. of fence line, in a concrete post, a standard tablet stamped "TT 27 EV 1957" (New elev. by CLC)		1119.137

LINE 3

C.D. Lien, 1972; Book CV-2868

ROCKWELL QUAD. - 220

1 2	0.0 2.7 mi W. along the Chicago Great Western RR. from the station at Dumont, 38 yards W. of milepost 308, about 120 ft SE. of the crossing of a N.-S. county line rd., 61.5 ft E. of a right-of-way fence corner, 44.3 ft S. of the S. rail, and 2 ft N. of a fence, set on top of a concrete post set flush with ground, a standard USC&GS disk stamped "J 29 1934"	990.651
3	0.9 UE 29 A, 0.9 mi N. along rd. from tablet, 10 ft N., 32.5 ft E. of and 2.8 ft lower than centerline of rd. at T-rd. W., a RR. spike in a power pole	1089.07
5	2.0 UE 29 B, 1.9 mi N., along rd. from tablet, a copper nail and washer in centerline of a wooden bridge over the W. fork of the Cedar River. (Water -12.2 ft)	995.8
6 3.2	Reference mark, 16 ft S., 140 ft center of a wooden bridge, 108 ft E. and 16 ft S. of a T-rd. N., and 33.8 ft S. and 11.6 ft E. of tablet, a chiseled square on a concrete culvert	985.61

LINE 3 (Cont'd)

ROCKWELL QUAD. - 220

FEET

1	7	3.2	BM 1 CDL, Aredale, 3.0 mi S. of, T. 92 N., R. 18 W., sec. cors. 7, 8, 17 and 18, 130 ft E., 18 ft N. of; and 4.5 ft lower than centerline of a wooden bridge, 98 ft E., 18 ft N., set on top of the N. end of a round concrete culvert; a standard tablet stamped "1 CDL 1972"	986.348
8		3.2	UE 1 A, 1.0 mi N. along rd. from tablet, 17 ft N., 51 ft W. and 2.5 ft lower than crossroads, a chiseled square on a concrete culvert	1039.66
9		5.4	UE 1 B; 2.2 mi N. along rd. from tablet, 4 ft S., 9 ft E. and same elev. as centerline of a small wooden bridge, a copper nail and washer in the SE. cor. of bridge (Drain -6.0)	1014.31
10		5.7	Aredale, 0.6 mi S. of; T. 93 N., R. 18 W., near the quarter cor. between secs. 31 and 32, 54.6 ft N., 10.9 ft E. of and 0.1 ft lower than centerline of a steel bridge water -9.0 ft set in the top of the NE. concrete abutment of bridge, a standard tablet stamped "2 CDL 1972"	1016.313
11		5.7	Reference mark, 195 ft N. of tablet, and 5 ft S., 13 ft E. of centerline of a small wooden bridge, a copper nail and washer in the SE. cor. of bridge pile	1016.15
12		6.3	UE 2 A, 0.6 mi W. along rd. from tablet, a nail in centerline of crossroads	1023.6
13		7.3	UE 2 B, 1.6 mi N. along rd. from tablet, 35 ft N., 25 ft W. of and 3.4 ft lower than crossroads, a chiseled square on a concrete culvert	1046.68
14		8.3	Aredale, 2.0 mi N. of, T. 93 N., R. 18 W., sec. cors. 17, 18, 19 and 20, 29.9 ft S., 31.3 ft E. of; and 3.8 ft lower than crossroads, set in the top of a round concrete culvert, a standard tablet stamped "3 CDL 1972"	1072.355
15		8.3	Reference mark, 64 ft N. and 63.5 ft W. of, tablet and 33.7 ft N. and 31.2 ft W. of crossroads, a chiseled square on a concrete culvert	1072.22
16		9.3	UE 3 A, 1.0 mi N. along rd. from tablet, a nail in centerline of crossroads	1073.2
17		10.3	UE 3 B, 2.0 mi N. along rd. from tablet, 40.6 ft S., 28.1 ft W. of, and 3.1 ft lower than crossroads, a chiseled square on a concrete culvert	1095.23
18		11.1	Aredale, 4.75 mi N. of; T. 93 N., R. 18 W., near the N. sixteenth cor. secs. 5 and 6, 329 ft N. 27 ft W. of centerline of rd. at drive W. to a Mr. Russell Folker residence, and 27 ft W. of; and 1.7 ft lower than centerline of rd. at drain set in the top of a 72-in. round concrete culvert, a standard tablet stamped "4 CDL 1972"	1068.622
19		11.1	Reference mark, 329 ft N., 22.4 ft E. centerline of rd. at private drive W., 22.4 ft E. of centerline of rd. over drain and 9.4 ft E. of tablet, a chiseled square on a concrete culvert	1067.39
20		11.6	UE 4 A, 0.35 mi N. and 0.15 mi E. along rd. from tablet, 7 ft S., 29 ft E. of; and same elev. as centerline of steel bridge over Cold Water Creek, a copper nail and washer in the SE. cor. of bridge	1061.10
21		12.6	UE 4 B, 1.35 mi N. and 0.15 mi E. along rd. from tablet, a copper nail and washer in centerline of rd. at T-rd. S.	1110.14

LINE 3 (Cont'd)

FEET

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|----|------|---|---|---------|
| 1 | 23 | 13.7 | UE 4 C, 2.25 mi N. along rd. from tablet, 29 ft S., 20.3 ft W. of and 3.0 ft lower than centerline of crossroads, a chiseled square on a concrete culvert | 1109.21 |
| 24 | 14.1 | Aredale, 7.4 mi N. of; T. 93 N., R. 18 W., near the S. sixteenth cor. between secs. 19 and 20, 0.35 mi N. of sec. cors. 19, 20, 29 and 30, 447 ft N., 12 ft E. of centerline of rd. at field approach W., 12 ft E. of; and 0.1 ft higher than centerline of rd. over drain, set in the center of the E. headwall of a concrete box culvert, a standard tablet stamped "5 CDL 1972" | 1091.652 | |
| 25 | 14.1 | Reference mark, 447 ft N., 12 ft W. of centerline of rd. at field approach W., 12 ft W. centerline of rd. over drain and 24 ft W. of tablet, a chiseled square in the center of the W. headwall of a concrete box culvert | 1091.75 | |
| 26 | 14.8 | UE 5 A, 0.7 mi N. along rd. from tablet, 132 ft N., 42 ft E. of; and 1.3 ft lower than crossroads, and 15 ft S., 42 ft E. of centerline of rd. at private drive W., a RR. spike in a power pole with a transformer | 1103.44 | |
| 27 | 15.8 | UE 5 B, 1.7 mi N. along rd. from tablet, a copper nail and washer centerline of crossroads | 1100.9 | |
| 29 | 16.8 | Aredale, 10.0 mi N. of; T. 94 N., R. 18 W., sec. cors. 5, 6, 7 and 8, 42 ft N. and 15.3 ft W. of; 0.3 ft lower than crossroads, cemented in the center of the W. headwall of a box concrete culvert, a standard tablet stamped "6 CDL 1972" | 1049.347 | |
| 30 | 16.8 | Reference mark, 26 ft N. and 54.3 ft E. of tablet, and 68 ft N. and 38 ft E. of crossroads, a RR. spike in a power pole | 1046.74 | |
| 32 | 17.8 | Rockford, 4.0 mi S. and 3.0 mi W. from; 4.0 mi E. from Cartersville, Tps. 94 and 95 N., R. 18 W., 184 ft N., 32 ft E., and 0.2 ft higher than center of crossroads, at approx. cor. secs. 5, 6, 31 and 32, 76 ft N. and 52 ft W. of NW. corner of abandoned schoolhouse, 106 ft N. and 12 ft W. of center of 30-in. elm tree, 14 ft N. of cor. fence post, at NW. cor. of schoolyard, 2 ft N. and 1 ft E. of telephone pole and 1 ft W. of fence line, in concrete post; standard tablet stamped "TT 27 EV 1957 1969 ELEV." | 1119.137 | |

LINE 4

C.D. Lien, 1972; Book CV-2868

ROCKWELL QUAD. - 220

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|----|-----|--|--|----------|
| 1 | 35 | 0.0 | At Hampton, about 0.5 mi N. along U.S. Hwy. 65 from the junction of State Hwy. 3, at the Chicago Great Western RR. crossing, 189 ft S. of the S. rail, 2.7 ft N. of the line of the N. side of house, 21.3 ft E. of centerline of hwy., 1.6 ft NW. of a power pole, set on top of a concrete post set about 0.4 ft below ground, a state survey disk stamped "35 213 (I.G.S.)" (Elev. by USC&GS) | 1134.151 |
| 36 | 0.8 | UE 212 A, 0.6 mi N. along U.S. Hwy. from tablet, near sec. cors. 21, 22, 27 and 28, T. 92 N., R. 20 W., a chiseled square in centerline of bridge over creek | 1093.00 | |
| 37 | 1.8 | UE 212 B, 1.8 mi N. along Hwy. 65, from tablet, a spike in centerline of rd. at T-rd. W. at offset crossroads, note spike sec. cor. marker | 1110.4 | |
| 38 | 2.8 | UE 212 C, 2.84 mi N. along U.S. Hwy. 65 from tablet, T. 92 N., R. 20 W., sec. cors. 9, 10, 15 and 16, 18 ft N., 36 ft W. and 0.7 ft lower than crossroads, a chiseled square on a concrete culvert | 1074.94 | |

LINE 4 (Cont'd)

ROCKWELL QUAD. - 220

FEET

1 39	3.3	Hampton, at junction of U.S. Hwy. 65 and State Hwy. 3, 3.8 mi N. of; T. 92 N., R. 20 W., near the cor. between sec. cors. 9 and 10, 33 ft N., 14 ft E. of; and 1.4 ft higher than centerline of bridge and 321.5 ft S. of the quarter cor. of secs. 9 and 10, E. and W. fence lines, cemented in the NE. cor. of a concrete railing of a bridge over a small creek running under Hwy. 65, a standard tablet stamped "7 CDL 1972" (Water -16.4)	1078.378
40	3.4	Reference mark, 15 ft S., 31 ft W. of centerline of rd. at private drive W., 603.7 ft N., 45 ft W. of tablet and 262.5 ft N. of the quarter cor. between secs. 9 and 10, E.-W. fence line, a chiseled square on a concrete culvert	1082.68
41	3.8	UE 7 A, 0.4 mi N. along Hwy. 65, from tablet, a nail in centerline of crossroads (nail Hwy. marker)	1106.6
42	4.9	UE 7 B, 1.5 mi N. along Hwy. 65 from tablet, T. 92 and 93 N., R. 20 W., sec. cors. 3, 4, 33 and 34, 34.8 ft N., 23 ft E. of; and 2.2 ft lower than crossroads, a chiseled square on a concrete box culvert	1151.30
43	5.9	UE 7 C; 2.5 mi N. along Hwy. 65 from tablet, a spike in centerline of rd. at T-rd. W. to Chapin	1128.8
44	6.4	Reference mark, 15 ft N., 36 ft E. of centerline of rd. at private drive E. and 446.2 ft S., 9 ft E. of tablet, a chiseled square on a concrete culvert	1099.19
45	6.5	Hampton, at the junction of U.S. Hwy. 65 and State Hwy. 3, 7.1 mi N. of along U.S. Hwy. 65, T. 93 N., R. 20 W., near the quarter cor. between secs. 27 and 28, tablet sets about midway between the quarter cor. and N. sixteenth cor. of secs. 27 and 28, 461 ft N., 27 ft E. of centerline of rd. at private drive E., 27 ft E. of centerline of rd. over a small drain and 1 ft N. of a black and white guard post, cemented in the SE. cor. of a concrete box culvert, a standard tablet stamped "8 CDL 1972" tablet is 2.2 ft lower than centerline of rd.	1097.330
46	6.9	UE 8 A, 0.4 mi N. along Hwy. from tablet, a nail in centerline of crossroads	1127.6
47	7.9	UE 8 B, 1.4 mi N. along rd. from tablet, T. 93 N., R. 20 W., sec. cors. 15, 16, 21 and 22, 34.3 ft N., 44.3 ft W. of; and 2.1 ft lower than T-rd. W., a chiseled square on a concrete culvert	1107.87
48	8.9	UE 8 C, 2.4 mi N. along Hwy. 65 from tablet, a spike in centerline of crossroads	1102.0
49	9.2	Hampton, at the junction of U.S. Hwy. 65 and State Hwy. 3, 9.8 mi N. of, along U.S. Hwy. 65, Sheffield; at City Hall, 0.7 mi E. and 0.85 mi N. of; T. 93 N., R. 20 W., near the N. sixteenth cor. between secs. 9 and 10, 87 ft S. and 15 ft W. of and 2.8 ft higher than centerline of bridge cemented in the SW. cor. of a concrete guard rail on bridge over the W. forked of the Cedar River, a standard tablet stamped "9 CDL 1972" (Water -20.0)	1077.599
50	9.2	Reference mark, 35.8 ft S. and 71 ft E. of tablet and 122 ft S., 56 ft E. of centerline of bridge, a chiseled cross on a metal culvert	1073.00
51	10.1	UE 9 A, 0.85 mi N. along rd. from tablet, 31 ft N., 23.2 ft W. of; and same elev. as T-rd. W. to Sheffield, a chiseled square in the NE. cor. of a small median in the center of a Y-rd.	1073.73
52	10.8	Sheffield, on Gilman Street, 40 ft W. of the W. wall of the City Memorial Hall, and 10 ft S. of the S. edge of the sidewalk; set in the top of a concrete post set flush with ground, a standard USC&GS disk stamped "SHEFFIELD 1934"	1077.245

LINE 5

FEET

C.D. Lien, 1972; Book CV-2868

ROCKWELL QUAD. - 220

1	54	0.0	UE 9 A (Described in Line 2)	1073.73
1	54	0.4	UE 9 B, 1.21 mi N. along Hwy. 65 from BM 9 CDL 1972, a nail in center of crossroads	1077.46
55	1.5		Sheffield, at City Hall, 1.5 mi N., 0.7 mi E. of; T. 94 N., R. 20 W., near the quarter cor. between secs. 33 and 34, 137 ft N., 29 ft E. of and 2.9 ft lower than crossroads 2.8 ft N. of a black and white guard post, cemented in the top of a round concrete culvert, a standard tablet stamped "10 CDL 1972"	1089.909
56	1.6		Reference mark, 400.3 ft N., 69 ft W. of tablet, 15 ft N. and 40 ft W. of centerline rd. at private drive W., a chiseled square on a concrete culvert	1092.21
57	2.0		UE 10 A, 0.4 mi N. along rd. from tablet, a nail, centerline of rd. at T-rd. W.	1088.9
58	3.0		Reference mark, 150.8 ft S. of tablet, 15 ft E. of centerline of bridge, a chiseled square on a concrete guard rail next to a gaging station	1068.59
59	3.0		Sheffield, at the City Hall, 3.0 mi N., 0.7 mi E. of; T. 94 N., R. 20 W., sec. cors. 21, 22, 27 and 28, 96 ft S., 15 ft E. of and 0.8 ft higher than centerline of bridge 107.7 ft S., 15 ft E. of centerline of rd. at T-rd. E. cemented in the NE. cor. of a concrete guard rail of bridge over Beaver Creek, a standard tablet stamped "11 CDL 1972"	1068.521
60	3.5		UE 11 A, 0.55 mi E. along rd. from tablet, 34.5 ft S., 30.5 ft W. of, and 0.4 ft higher than centerline of rd. at T-rd. N., 2.1 ft N. of a right-of-way fence, and 17 ft W. of centerline of a field approach S. and at a wire gate, a chiseled square on a large rock	1086.61
61	4.5		UE 11 B, 1.0 mi N., 0.55 mi E. of tablet, a nail in centerline of crossroads	1084.7
62	4.8		Rockwell, S. edge of City limits, 0.75 mi S. of along County Rd. N., T. 94 N., R. 20 W., near the S. sixteenth cor. of sec. 22, 18 ft E. of centerline of rd., 30.8 ft N., of the N. post of a gate, 1.1 ft N. of a concrete witness post, set on top of a concrete post set flush with ground, a standard (I.G.S.) disk stamped 17.243 (Elev. by USC&GS)	1093.833