

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

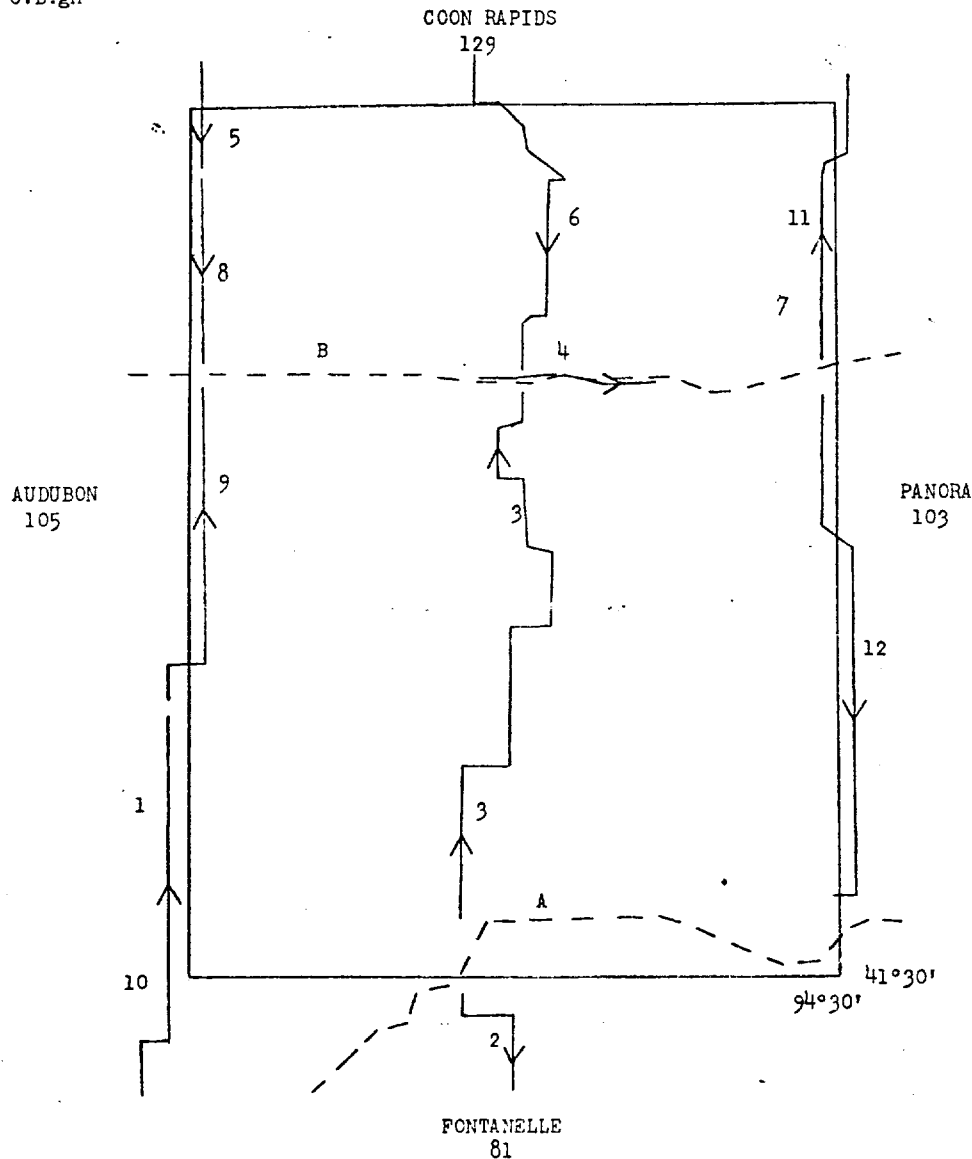
Audubon and Guthrie Counties

FINAL ADJUSTMENT OF 1969

Edition of ⁹⁻²⁴⁻⁶⁹~~8/25/69~~

PR:AKH/ CVB:gh

CASEY QUADRANGLE
104 - IOWA
N4130-W9430/15
DIAGRAM NK 15-7
OMAHA



USC&GS VERTICAL CONTROL DATA
Quadrangle No. 410944

A. Line No. 19
B. Line No. 37

104 C

LINE 1

FEET

P. J. Hohenberger, 1968; Book CV 2338

WIOTA QUAD. - 82

- | | | | | |
|---|----|-----|--|---------|
| 2 | 75 | 3.6 | UE 30 PJH B, about 0.5 mi E. and 1.0 mi N. of B.M., at rd. overpass across Interstate 80, 15 ft E. and 0.7 ft higher than rd., on top of N. end of E. concrete curb; a chiseled square | 1335.43 |
|---|----|-----|--|---------|

AUDUBON QUAD. - 105

- | | | | |
|----|-----|---|----------|
| 75 | 4.8 | Reference mark, 460 ft SSE. of B.M., 14 ft E. of rd., at SE. corner of concrete bridge; a chiseled square | 1288.49 |
| 76 | 4.8 | Exira, Audubon County, 6.0 mi S. and 6.0 mi E. of; Tps. 77 and 78 N., R. 34 W., near cor. secs. 3, 4, 33 and 34, 635 ft N., 50 ft W. and 8.8 ft lower than crossroads, 21.5 ft S. of a drive W. to farmhouse, 13.5 ft S. and 2.0 ft E. of a fence corner S. and W., 5.5 ft S. of a power pole painted "B.M.", 2.5 ft N. of a witness sign, in concrete post projecting 0.1 ft; a standard tablet stamped "15 LB 1956 RESET 1968" (NOTE: T T stamped has been crossed out) | 1288.156 |
| 76 | 5.7 | UE 15 LB A, about 1.0 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled square | 1306.60 |
| 77 | 6.7 | UE 15 LB B, about 2.0 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled square | 1426.31 |
| 78 | 7.1 | Exira, Audubon County, 3.6 mi S. and 6.0 mi E. of; T. 78 N., R. 34 W., near quarter cor. between secs. 21 and 22, 0.4 mi N. of crossroads, 17 ft S., 58 ft W. and 2.5 ft higher than rd. at drive E. to farmhouse, 65 ft N. of a field entrance W., 1.5 ft S. and 5.5 ft W. of a power pole, painted "B.M.", 1.0 ft W. of a right-of-way fence, 2.5 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "31 PJH 1968" | 1441.828 |
| 78 | 7.8 | UE 31 PJH A, about 0.6 mi N. along concrete rd. from B.M., 8.0 ft S. of center of crossroads; a chiseled square | 1388.43 |
| 79 | 8.4 | UE 31 PJH B, about 1.2 mi N. along concrete rd. from B.M., 42 ft E. and 3.8 ft lower than rd., on top of first rib W. of E. end of a 10.5 ft corrugated pipe culvert; a punch mark and painted square | 1327.42 |
| 80 | 8.9 | UE 31 PJH C, about 1.6 mi N. of B.M., T. 77 N., R. 34 W., at cor. secs. 9, 10, 15 and 16, at center of T-rd. N. | 1425.75 |
| 3 | 1 | 9.8 Exira, 1.0 mi S. and 6.0 mi E. of; near cor. secs. 3, 4, 9 and 10, T. 78 N., R. 34 W., 244 ft S. and 31 ft E. of crossroad, 1 ft W. of a power pole, in concrete post; standard tablet stamped "17 LB 1956" | 1346.104 |

LINE 2

P. J. Hohenberger, 1969; Book CV 2338

CASEY QUAD. - 104

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|---|-----|---|----------|
| 3 | 3 | 0.0 Reference mark 2 for USC&GS Triangulation Station ZOOK 1934; SE. of the station, 18 ft E. of the center of Hwy. 6; 10 ft W. of a small barn, 95 ft NE. of the NE. corner of the parish house, set flush | 1468.727 |
| 3 | 0.7 | UE ZOOK A, about 0.45 mi S. along paved rd. from the water tower at Adair, Adair County, at rd. overpass across Interstate 80, 15 ft W. and 0.6 ft higher than rd., on top of N. end of W. concrete curb; a chiseled square | 1450.37 |

FONTANELLE QUAD. - 81

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|---|-----|---|---------|
| 4 | 1.0 | UE ZOOK B, about 0.7 mi S. along paved rd. from water tower at Adair, T. 77 N., R. 33 W., at cor. secs. 3, 4, 9 and 10, at center of T-rd. E.; a copper nail and washer | 1407.04 |
|---|-----|---|---------|

LINE 2 (Cont'd)

• FONTANELLE QUAD. - 81

FEET

- 3 5 1.6 UE ZOOK C, about 0.7 mi S. along paved rd. from the water tower at Adair, thence 0.5 mi E. along gravel rd., 7.0 ft N. and 15 ft W. of NW. corner of concrete block bldg., just N. of a microwave tower, at NW. corner of a rectangular shaped, concrete base of trap door; a chiseled square 1456.44
- 6 2.1 UE ZOOK D, about 0.7 mi S. along paved rd. from water tower at Adair, thence 1.0 mi E. along gravel rd., 390 ft S., 14 ft W. and 16.2 ft lower than crossroads, on top, in center of W. headwall of a concrete box culvert; a chiseled square 1370.71

LINE 3

P. J. Hohenberger, 1969; Book CV 2338

CASEY QUAD. - 104

- 3 80 0.0 At Adair, 1.9 mi NE. along U. S. Hwy. 6 from the city water tower; at a T-rd. junction, 91 ft W. of the center of a rd. leading S., 42 ft S. of the center of the hwy., 72 ft W. of a fence corner, 64 ft SE. of Hwy. station 88, 55 ft SW. of a power pole, 1 ft N. of a fence, 2.2 ft E. of a witness post, set in the top of a concrete post which projects 0.3 ft above the ground; USC&GS standard disk stamped "N 163 1950" 1340.604
- 80 0.7 At Adair, 1.2 mi N. along U. S. Hwy. 6 from the city water tower, on the inside of a curve in the hwy., at a rd. jct., 27.5 ft SE. of the center of the hwy., 42 ft S. of hwy. station 50, level with the hwy., set in the top of the NE. end of the SE. headwall of a large concrete culvert; USC&GS standard disk stamped "C 163 1950" (Note; Previous elev. of 1371.661 could not be reconciled. This elev. by USGS) 1371.548
- 37 1.5 UE C 163 A, about 700 ft N. of B.M., T. 78 N., R. 33 W., at cor. secs. 27, 28, 33 and 34, at center of T-rd. W. (gravel) 1399.3
- 38 3.0 UE C 163 B, about 1.1 mi N. along gravel and concrete rd. from B.M., at center of crossroads; a chiseled cross 1434.19
- 39 3.7 UE C 163 C, about 2.1 mi N. along gravel and concrete rd. from B.M., at center of crossroads; a chiseled cross 11385.48
- 40 3.7 Adair, Adair County, 3.9 mi N. along U. S. Hwy. 6 and concrete rd. from the water tower at; T. 78 N., R. 33 W., near the N. sixteenth cor. between secs. 15 and 16, 0.3 mi S. of crossroads, 90 ft N., 35.5 ft E. and 2.9 ft lower than rd. at drive E. to farmhouse, 6.0 ft S. and 15 ft W. of the fifth spruce tree N. of driveway, 6.0 ft N. and 2.0 ft W. of a power pole painted "B.M.", 2.0 ft S. of a witness sign, 1.0 ft W. of a fence; a standard tablet crimped to the top of a copper rod, stamped "92 PJH 1968" 1448.908
- 41 4.0 UE32 PJH A, about 0.3 mi N. along concrete rd. from B.M., at center of crossroads; a chiseled cross 1441.75
- 42 5.1 UE 32 PJH B, about 0.4 mi N. and 1.0 mi E. of B.M., T. 78 N., R. 33 W., near SE. cor. sec. 10, 400 ft N., 14 ft W. and 17.1 ft lower than crossroads, on top, in center of W. headwall of a concrete culvert; a chiseled cross (NOTE: culvert has settled slightly to W.) 1355.99
- 43 6.2 UE 32 PJH C, about 1.5 mi N. and 1.0 mi E. of B.M., 0.35 mi S. of crossroads, 23 ft W. and 2.5 ft lower than rd., on top of W. end of a 2.0 ft corrugated pipe culvert; a punch mark and painted square 1347.28
- 44 6.5 UE 32 PJH D, T. 78 N., R. 33 W., 0.5 mi N. of cor. secs. 2, 3, 10 and 11, at center of crossroads (gravel) 1342.9

<u>LINE 3 (Cont'd)</u>	<u>CASEY QUAD. - 104</u>	<u>FEET</u>
3 45 7.0	Adair, Adair County, 6.25 mi N. and 1.0 mi E. of the water tower at; T. 78 N., R. 33 W., 1.0 mi N. of cor. secs. 2, 3, 10 and 11, 0.5 mi N. of crossroads, 125 ft NNW. of the NW. corner of a white frame house, at the NW. corner of a shelter belt, 92 ft N., 49 ft E. and level with rd. at drive E. to farmhouse, 1.5 ft S. and 12.5 ft E. of a fence corner N.-E., 1.0 ft N. and 8.0 ft E. of a small fruit tree, 2.0 ft W. of a witness sign; standard tablet crimped to the top of a copper rod stamped "33 PJH 1968"	1313.580
46 7.0	Reference mark, 106 ft NNW. of B.M., 21.5 ft E. of rd., on top of E. end of 3,5 ft cement pipe culvert; a chiseled cross	1313.38
46 7.8	UE 33 PJH A, about 0.8 mi N. along gravel rd. from B.M., at center of T-rd. S. (gravel)	1420.3
47 8.6	UE 33 PJH B, about 0.8 mi N. and 0.75 mi E. of B.M., 62 ft S., 117 ft W. and 1.0 ft higher than W. end of Y-jct. of T-rd. N., 22 ft S. and 88 ft W. of S. end of a corrugated pipe culvert; 28 ft S. of a right-of-way fence, in E. base of a 1.5 ft (diameter) oak tree and projecting 0.2 ft; a rail spike	1372.56
48 9.2	UE 33 PJH C, about 1.4 mi N. and 0.8 mi E. of B.M., 0.6 mi N. of T-rd. N., 20 ft W. and 3.5 ft lower than rd., above and near SE. corner of a concrete catch basin, in line with S. steel rail, on top of W. headwall of concrete culvert; a chiseled cross	1243.58
49 9.6	UE 33 PJH D, about 1.8 mi N. and 0.8 mi E. of B.M., at center of crossroads (gravel)	1228.9
50 9.6	Guthrie Center, Guthrie County, 4.15 mi S. and 5.5 mi W. of center of; T. 79 N., R. 32 W., 0.1 mi N. of cor. secs. 29, 30, 31 and 32, 487 ft N. and 29 ft E. of crossroads, 455 ft N. and 1.5 ft W. of right-of-way fence corner N.-E., 152.5 ft S. of angle to NNE. in right-of-way fence, 16.0 ft N. of a power pole, painted "B.M.", 3.5 ft S. and 1.5 ft W. of a fence post, 2.0 ft S. of a witness sign, 2.2 ft lower than rd.; standard tablet crimped to the top of a copper rod stamped "34 PJH 1968"	1236.039
50 10.1	UE 34 PJH A, about 0.4 mi N. along gravel rd. from B.M., 87 ft S. of T-rd. S., 11 ft W. and 0.7 ft higher than rd. at N. end of bridge, on top of N. end of W. wooden rail; a screw-stud and nut attaching an angle iron	1206.97
51 11.0	UE 34 PJH B, about 1.4 mi generally NW. along gravel rd. from BM, T. 79 N., R. 32 W., at quarter cor. between secs. 19 and 30, 31.5 ft N., 24 ft E. and 3.9 ft lower than T-rd. W., on top of E. end of a 2.5 ft corrugated pipe culvert; a punch mark and painted square	1276.64
53 11.4	UE 34 PJH C, T. 79 N., R. 32 W., at quarter cor. between secs. 18 and 19, at center of T-rd. S. (gravel)	1378.5
53 11.8	Guthrie Center, Guthrie County, 2.25 mi S. and 6.1 mi W. of center of; T. 79 N., R. 32 W., 0.1 mi W. of quarter cor. between secs. 18 and 19, 590 ft W. of T-rd. S., 53.5 ft W. of gate entrance to Bear Grove Cemetery, 39 ft N. and 0.6 ft higher than rd., 4.0 ft S. and 28 ft E. of a power pole painted "B.M.", 12 ft E. of a field entrance N., 1.0 ft S. and 4.0 ft E. of a fence corner at SW. corner of cemetery, 2.0 ft E. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "35 PJH 1968"	1402.493
6 28 11.8	Reference mark, 660 ft W. of B.M., 20 ft S. of rd., on top, in center of S. headwall of a concrete culvert; a chiseled square	1367.09
3 54 12.2	UE 35 PJH A, about 0.4 mi W. along gravel rd. from B.M., 92 ft N., 20 ft W. 2.0 ft higher than T-rd. N., at SE. cor. of concrete porch to farmhouse; a chiseled cross	1397.38

<u>LINE 3 (Cont'd)</u>		<u>CASEY QUAD. - 104</u>	<u>FEET</u>
3 55	12.9	UE 35 PJH B, about 0.4 mi W. thence 0.7 mi N. along gravel rd. from B.M., 21 ft W. and 4.2 ft lower than rd., on top of W. end of a 3.0-ft cement pipe culvert; a chiseled cross	1256.39
56	13.2	UE 35 PJH C, about 0.4 mi W. thence 1.05 mi N. along gravel rd. from B.M., 350 ft E. of a T-rd. S., 18 ft S. and 2.4 ft lower than rd., on top of W. end of S. headwall of a concrete box culvert; a chiseled cross	1206.09
57	13.8	UE 35 PJH D, T. 79 N., R. 32 W., near center of sec. 7, at NW. corner of a concrete bridge, 10 ft W. and 0.7 ft higher than rd. at N. end of bridge, on top of N. end of W. concrete curb; a chiseled cross	1188.79
58	14.4	UE 35 PJH E, T. 79 N., R. 33 W., near quarter cor. between secs. 6 and 7, 233 ft S., 22 ft W. and 7.4 ft lower than crossroads (State Hwy. 44 and N.-S. gravel rd.), above and near SE. corner of a concrete catch basin, on top of W. headwall of a concrete culvert; a chiseled cross	1183.17
59	14.8	Guthrie Center, 7.0 mi W. along State Hwy. 64 from the intersection of State Hwy. 25 at; at the W. slope of a hill, just E. of a curve, at a 5-ft culvert, in the top of the S. headwall, and level with the hwy.; USC&GS standard disk stamped "C 101 1935"	1323.075

LINE 4

<u>P. J. Hohenberger, 1969; Book CV 2338</u>		<u>CASEY QUAD. - 104</u>	
3 76	0.0	USC&GS standard disk stamped "C 101 1935" (described in Line 4)	1323.075
76	1.3	UE C 101 A, about 2.15 mi E. along State Hwy. 44 from B.M. (formerly U. S. Hwy. 64), at SW. corner of a long concrete bridge, 19 ft S. and 0.8 ft higher than hwy.; a brass plug stamped "I.H.C. B.M." (elev. by USGS)	1152.78
77	2.0	UE C 101 B, about 2.9 mi E. along State Hwy. 44 (old U. S. Hwy. 64) from B.M., at SW. wingwall of a concrete bridge, 14.5 ft S. and 0.5 ft higher than hwy.; a chiseled cross	1137.38
78	2.8	Guthrie Center, 3.5 mi W. along State Hwy. 64 from the intersection of State Hwy. 25 at; 700 ft E. of a schoolhouse at a 4-ft culvert, in the top of the S. concrete headwall, and about 1 ft higher than the hwy.; USC&GS standard disk stamped "E 101 1935"	1130.473

LINE 5

<u>P. J. Hohenberger, 1969; Book CV 2338</u>		<u>COON RAPIDS QUAD. - 129</u>	
5 32	25.5	Reference mark, 530 ft E. of B.M., 28 ft N., 63 ft W. and 0.9 ft lower than crossroads, on top of E. end of a 1.5 ft corrugated pipe culvert; a punch mark and painted square	1408.09
33	26.1	Audubon, 3.0 mi N. and 9.5 mi E. of; near cor. sec. 1, 6, 7 and 12; T. 80 N., Rs. 33 and 34 W., 580 ft W. and 36 ft N. of crossroad, 26 ft E. of private drive to farmyard, 1 ft N. and 1 ft W. of SW. fence corner of yard, in concrete post; standard tablet stamped "TT 26 LB 1956" (NOTE: May be TT 27 LB 1956" and incorrectly identified as "TT 26 LB 1956")	1443.346

CASEY QUAD. - 104

34	26.6	UE 27 LB A, about 1.0 mi S. along gravel rd. from B.M., 27 ft S., 193 ft E. and 9.8 ft lower than crossroads, on top of S. end of a 2.5 ft corrugated pipe culvert; a punch mark and painted square	1426.94
35	27.6	Audubon, 0.75 mi N. and 9.5 mi E. of, T. 80 N., Rs. 33 and 34 W., near cor. secs. 13, 18, 19 and 24, 144 ft N. and 30 ft W. of T-rd. N., on county line between Audubon and Guthrie Counties, 1 ft W. of telephone pole, and 1 ft E. of fence, in concrete post; standard tablet stamped "5 LB 1956"	1371.953

LINE 6

FEET

P. J. Hohenberger, 1969; Book CV 2338

COON RAPIDS QUAD. - 129

5	64	24.4	UE BETTS BB, about 0.4 mi W., thence 2.3 mi S. along gravel rd. from B.M., at center of T-rd. W. (gravel)	1231.7
64	24.8	UE BETTS C, about 0.4 mi W., thence 2.7 mi S. along gravel rd. from B.M.; 600 ft S., 12 ft W. and 0.7 ft higher than T-rd. E., 2.7 ft higher than N. end of bridge, on top, in center of NW. wingwall of a long concrete bridge across S. Raccoon River; a chiseled square	1171.03	
65	25.3	Reference mark, 446 ft WSW. of B.M., 22 ft S. of rd., on top of E. end of S. headwall of a concrete box culvert; a chiseled square	1164.76	
CASEY QUAD. - 104				
66	25.3	Coon Rapids, Carroll County, 8.0 mi S. and 2.5 mi E. of center of; T. 80 N., R. 32 W., near the $\frac{W}{4}$ cor. sec. 7, 38 ft N., 72 ft W. and 4.0 ft lower than T-rd. SE. at field entrance N., 18 ft E. of a field entrance N., 1.5 ft S. and 9.0 ft E. of a power pole, painted "B.M.", 1.0 ft S. and 3.5 ft E. of a T-fence N., 1.5 ft W. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "60 PJH 1969"	1172.143	
66	26.5	UE, 60 PJH A, about 0.7 mi SE. along gravel rd. from B.M., 11 ft NW., 29 ft NE. and 1.3 ft lower than rd. at field entrance NE., on top of NW. end of a 1.5 ft corrugated pipe culvert; a punched hole and painted square	1201.35	
67	27.0	UE 60 PJH B, about 1.8 mi SE. along gravel rd. from B.M., 66 ft N., 46 ft W. and 1.2 ft lower than T-rd. N., on top of NW. end of NE. headwall of a concrete box culvert; a chiseled square	1145.27	
68	27.5	UE 60 PJH C, Wichita, about 0.3 mi W. of; near cor. secs. 17, 18, 19 and 20, 15 ft N., 113 ft E. and 2.7 ft higher than T-rd. S., near NW. cor. of a steel and wooden bridge, set flush with top of a cut-off power pole used as a bridge piling; a rail spike	1145.95	
69	28.4	UE 60 PJH D, Wichita, 0.3 mi W., thence 0.9 mi S. along gravel rd. from; 250 ft S., 28 ft E. and 2.0 ft higher than center of a small wooden bridge, 10 ft N. of a field entrance E., on top of N. end of a 1.5 ft cement pipe culvert; a chiseled square	1150.32	
70	28.5	UE 60 PJH E, about 460 ft S. of "UE 60 PJH D", top of small rock near center of crossroads, (crossroads elev. 0.5 ft higher or 1193.54 ft)	1192.9	
70	28.8	Guthrie Center, Guthrie County, 2.5 mi N. and 5.5 mi W. of; Coon Rapids, Carroll County, 10.75 mi S. and 3.5 mi E. of center of; T. 80 N., R. 32 W., near the N. sixteenth cor. between secs. 29 and 30, at the top of a hill, 110 ft N., 41 ft W. and 6.5 ft higher than rd. at drive E., to farmhouse, 23.5 ft N. and 121.5 ft W. of NW. corner of a farmhouse, 23.5 ft S. and 54 ft E. of a double-trunk oak tree, 46 ft N. and 33 ft E. of a granite boulder projecting 1.5 ft, 3.0 ft N. and 1.25 ft W. of a wooden fence post, 1.5 ft W. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "61 PJH 1969"	1275.709	
71	28.8	Reference mark, 121.5 ft SE. of B.M., 11 ft N. and 21.5 ft E. of rd. at drive, on top of N. end of a 1.5 ft cement pipe culvert; a chiseled square	1269.18	
71	29.5	UE 61 PJH A, about 0.75 mi S. along gravel rd. from B.M., 184 ft N., 18 ft W. and 13.4 ft lower than crossroads, on top of N. end of W. headwall of a concrete culvert; a chiseled square	1241.01	
72	30.3	UE 61 PJH B, about 1.6 mi S. along gravel rd. from B.M., 234 ft S., 27.5 ft E. and 4.4 ft lower than T-rd. E., on top of N. end of a 2.5 ft cement pipe culvert under a field entrance E.; a chiseled square	1186.32	

LINE 6 (Cont'd)

CASEY QUAD. - 104

FEET

- 5 73 31.0 UE 61 PJH C, about 2.3 mi generally S. along gravel rd. from B.M., at quarter cor. between secs. 6 and 31, 400 ft S. of T-rd. W., 21 ft W. and 4.5 ft lower than rd., on top of W. end of a 1.5 ft corrugated pipe culvert; a punched hole and painted square (NOTE: W. end of culvert is slightly torn) 1296.42
- 74 31.6 UE 61 PJH D, about 0.4 mi N. along gravel rd. from State Hwy. 44, 19 ft W. and 3.2 ft lower than rd., on top of W. end of a 1.5-ft corrugated pipe culvert; a punched hole and painted square 1236.35
- 74 32.0 UE 35 PJH E (described in Line 3) 1183.17

LINE 7

P. J. Hohenberger, 1969; Book CV 2338

CASEY QUAD. - 104

- 6 1 0.0 UE 39-45 A, 0.3 mi S. of tablet, on State Hwy. 25, in NE. concrete guard rail wing, old bridge across South Racoon River; chiseled square 1074.84
- 1 0.3 UE 39-45 AA, at center of crossroads at Guthrie Center (State Hwys. 44 and 25) 1116.8
- 1 0.8 UE Guthrie A, about 0.55 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at Guthrie Center, about 300 ft E. of a school, 290 ft N., 34 ft E. and 8.5 ft higher than intersection of hwy. and Oak Street, on top, in center of E. headwall of a concrete culvert (slanted NE.-SW.) an I.H.C. brass plug (elev. by USGS) 1150.38
- 2 1.5 UE Guthrie B, about 1.35 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at Guthrie Center, just NW. of a farmhouse, 125 ft N., 34 ft E. and 2.5 ft lower than hwy. at drive E., on top, in center of E. headwall of a concrete box culvert; a brass oval-head plug 1222.93
- 3 2.2 UE Guthrie C, about 2.1 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at Guthrie Center, 700 ft N., 52 ft W. and 6.8 ft lower than crossroads, on top, in center of W. headwall of a concrete box culvert; an I. H. C. brass plug (elev. by USGS) 1172.13
- 4 3.0 Guthrie Center, Guthrie County, 2.7 mi N. along State Hwy. 25 from: jct. with State Hwy. 44 at; T. 80 N., R. 31 W., near the NW. corner of the E $\frac{1}{2}$ sec. 30, 508 ft S., 69 ft E. and 1.9 ft higher than crossroads, 130 ft S. of a wooden right-of-way marker (#115), 5.5 ft N. of a power pole painted "B.M.", 1.5 ft S. of a witness sign, 1.0 ft W. of a fence; a standard tablet crimped to the top of a copper rod stamped "63 PJH 1969" (431 ft S. of a fence corner S.-E.) 1125.490
- 5 3.0 Reference mark, 231.5 ft NW. of B.M., 34.5 ft W. of hwy., on top, in center of W. headwall of a concrete box culvert; an I. H. C. brass plug (elev. by USGS) 1116.89
- 5 3.6 UE 63 PJH A, about 0.6 mi N. along Hwy. 25 from B.M., at SW. corner of a steel and concrete bridge, 15 ft W. and 0.6 ft higher than Hwy. at S. end of bridge, on top of W. end of SW. wingwall; a chiseled square 1083.11
- 6 4.3 UE 63 PJH B, about 1.3 mi N. along State Hwy. 25 from B.M., 29 ft N., 48 ft W. and 1.5 ft lower than T-rd. NW., on top of N. end of a 4.0 ft cement pipe culvert; a chiseled square 1107.23
- 7 5.2 UE 63 PJH C, 200 ft S. and 10.3 ft lower than T-rd. E., T. 80 N., R. 31 W., at the NE. corner of sec. 18, on W. side of Hwy. 25, on top, in center of W. headwall of a concrete culvert; an I. H. C. brass plug (elev. by USGS) 1173.75

PANORA QUAD. - 103

<u>LINE 7 (Cont'd)</u>	<u>PANORA QUAD. - 103</u>	<u>FEET</u>
6 8 5.7 UE 63 PJH D, about 2.8 mi N. along State Hwy. 25 from B.M., at quarter cor. between secs. 7 and 8, 300 ft S., 34 ft E. and 5.8 ft higher than T-rd. W., top, in center of E. headwall of a concrete culvert; an I.H. C. brass plug (elev. by USGS)		1157.13
8 6.5 UE 63 PJH E, 3.65 mi N. along Hwy. 25 from B.M.; 120 ft N. and 4.2 ft higher than T-rd. W., on E. side of hwy., top of concrete culvert; an I. H. C. brass plug (elev. by USGS)		1196.90
	<u>BAGLEY QUAD. - 128</u>	
8 6.9 UE 63 PJH F, 3.95 mi N. along Hwy. 25 from B.M., 0.3 mi N. of UE 13 B, on W. side of hwy., top of concrete culvert; an I. H. C. brass plug (elev. by USGS) (NOTE UE is 2.4 ft lower than hwy.)		1225.46
32 7.6 Guthrie Center, about 6.5 mi N. of; along State Hwy. 25, about 0.2 mi N. of cor. secs. 5, 6, 31 and 32, T. 81 N., R. 31 W., on N. end of bridge over Battle Run Creek, 12.5 ft W. of center of bridge, about 6 in. above bridge floor in NW. wingwall; standard tablet stamped "13 JDF 1953"		1069.328
33 7.7 UE 13 JDF AA, about 560 ft N. of B.M., at center of T-rd. W. (paved); a painted square		1082.31
33 8.0 UE 13 JDF A, about 0.4 mi N. along State Hwy. 25 from B.M., 350 ft S., 23 ft E. and 20.5 ft lower than T-rd. E., on top, in center of E. headwall of a concrete culvert; an I. H. C. brass plug (elev. by USGS)		1155.90
34 8.4 UE 13 JDF B, about 0.8 mi N. along State Hwy. 25 from B.M., 110 ft S. and 0.2 ft higher than crossroads, on E. side of hwy., top, in center of E. headwall of a concrete culvert; an I. H. C. brass plug (elev. by USGS)		1187.17
35 8.9 UE 7 C, 1.5 mi S. along gravel rd., in center of concrete culvert on W. side of rd., top of brass bolt, Iowa Hwy. Commission		1231.80

LINE 8

L. H. Borgerding, 1956; Book CV 740

AUDUBON QUAD. - 105

9.8 Audubon, 1.75 mi N. and 8.5 mi E. of; near cor. secs. 11, 12, 13, and 14, T. 80 N., R. 34 W., 46 ft N. and 400 ft E. of crossroads, 30 ft E. of private drive N., 1 ft S. and 1 ft E. of fence post, in concrete post; standard tablet stamped "4 LB 1956"	1386.665
9.8 Reference mark, 85 ft S. and 44 ft E. of bench mark, 44 ft S. of center of rd., on N. end of round concrete well covering; a chiseled square	1389.39
10.2 UE, center of rd. at N.-S. fence, near quarter cor. between secs. 12 and 13, T. 80 N., R. 34 W.	1394.3
10.7 UE, center of crossroads, near cor. secs. 7, 12, 13 and 18, T. 80 N., Rs. 33 and 34 W.	1436.4

CASEY QUAD. - 104

11.2 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 13 and 18, T. 80 N., Rs. 33 and 34 W.	1400.6
11.6 Reference mark, 350 ft N. of B.M., 16 ft E. of center of rd., on center of E. headwall of culvert; chiseled square	1358.73
11.7 "5 LB 1956" (described in Line 5)	1371.953
12.7 UE, T. 80 N., Rs. 33 and 34 W., near cor. secs. 7, 12, 13 and 18, 21 ft S. and 38 ft W. of T-rd. S., on SW. end of concrete culvert; chiseled square	1388.48

<u>LINE 8 (Cont'd)</u>	<u>CASEY QUAD. - 104</u>	<u>FEET</u>
13.2 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 25 and 30, T. 80 N., Rs. 33 and 34 W.		1324.9
13.6 Reference mark, 630 ft N. of B.M., 70 ft E. of center of rd., 23 ft N. and 21 ft E. of fence corner, top and center of concrete well-covering		1329.05
13.7 Audubon, 1.25 mi S. and 9.5 mi E. of, near cor. secs. 25, 30, 31 and 36, T. 80 N., Rs. 33 and 34 W., 190 ft S. and 33 ft E. and 0.7 ft lower than crossroads, 1 ft S. of pole, in concrete post; standard tablet stamped "6 LB 1956"		1335.936
14.2 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 31 and 36, T. 80 N., R. 33 and 34 W.		1374.0
14.7 UE, center of rd. opposite center of right-of-way E.-W., near cor. secs. 1, 6, 31 and 36, Tps. 79 and 80 N., Rs. 33 and 34 W.		1418.4
15.2 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 1 and 6, T. 79 N., Rs. 33 and 34 W.		1452.4
15.7 UE, center of U. S. Hwy. 64 at cross rd., near cor. secs. 1, 6, 7 and 12, T. 79 N., Rs. 33 and 34 W.; chiseled square		1394.98
15.8 In Guthrie County, 8.7 mi E. along State Hwy. 64 from Chicago, Rock Island & Pacific RR. station at Hamlin, Audubon County, between two low hills, near cor. secs. 1, 6, 7 and 12, T. 79 N., Rs. 33 and 34 W., 17 ft S. and 800 ft E. of center of hwy. at crossroad, at a 3-ft concrete culvert, in top of S. headwall and level with the hwy.; standard USC&GS disk stamped "Z 100 1935"		1386.861

LINE 9

<u>L. H. Borgerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>
5.8 Exira, 1.0 mi N. and 4.0 mi E. of; near N. cor. secs. 5 and 6, between Tps. 77 and 78 N., R. 34 W., 36 ft N. and 17 ft W. of T-rd. S., between a power pole and the right-of-way fence, in concrete post; standard tablet stamped "8 LB 1956"	1324.383
6.3 UE, center of rd. at fence S., near $N\frac{1}{4}$ cor. sec. 5, between Tps. 77 and 78 N., R. 34 W.	1306.4
6.8 UE, center of T-rd. S., near N. cor. secs. 4 and 5, Tps. 77 and 78 N., R. 34 W.,	1341.3
7.5 UE, center of T-rd. N., near S. cor. secs. 35 and 36, Tps. 77 and 78 N., R. 34 W.	1360.9
8.0 UE, center of bridge over Troublesome Creek, near $S\frac{1}{4}$ cor. sec. 36, Tps. 77 and 78 N., R. 34 W.	1291.9

CASEY QUAD. - 104

8.5 Reference mark, 37 ft N. and 37 ft W. of bench mark, SE. corner of concrete walk on S. side of porch of house; painted square	1377.46
8.6 Exira, 1.0 mi N. and 7.0 mi E. of, near SE. cor. sec. 36, T. 77 N., R. 34 W., and in the $NE\frac{1}{4}$ sec. 3, T. 78 N., R. 34 W., 342 ft S. and 33 ft W. and 17.4 ft lower than T-rd. S., 17 ft N. and 1 ft E. of SE. corner of yard fence, in concrete post; standard tablet stamped "9 LB 1956"	1378.921
9.1 UE, ground level at cross fence, near quarter cor. between secs. 31 and 36, T. 79 N., Rs. 33 and 34 W.	1295.4
9.7 UE, 33 ft N. and 17 ft W. of T-rd. N., near cor. secs. 25, 30, 31 and 36, T. 79 N., Rs. 33 and 34 W., on W. end of metal culvert; painted square	1329.6

<u>LINE 9 (Cont'd)</u>	<u>CASEY QUAD. - 104</u>	<u>FEET</u>
10.1 UE, center of rd. at fence E., near quarter cor. between secs. 25 and 30, T. 79 N., Rs. 33 and 34 W.		1356.9
10.7 UE, center of crossroad, near cor. secs. 19, 24, 25 and 26, T. 79 N., Rs. 33 and 34 W.		1386.8
11.3 Reference mark, 44 ft S. and 8 ft E. of B.M., 47 ft E. of center of N.-S. rd., 40 ft N. of private drive in front of house, on concrete well; chiseled square		1469.27
11.3 Exira, 3.0 mi N. and 7.0 mi E. of; near quarter cor. between secs. 19 and 24, T. 79 N., Rs. 33 and 34 W., 580 ft N. and 41 ft E. of center of rd. at E.-W. fence, 87 ft N. of private drive E., 5 ft S. of power pole, in concrete post; standard tablet stamped "10 LB 1956"		1463.993
11.6 UE, center of crossroad, near cor. secs. 13, 18, 19 and 24, T. 79 N., R. 33 and 34 W.		1400.7
12.1 UE, center of rd. at fence W., near quarter cor. secs. 13 and 18, T. 79 N., Rs. 33 and 34 W.		1453.4
12.6 UE, center of crossroad, near cor. secs. 7, 12, 13 and 18, T. 79 N., Rs. 33 and 34 W.		1415.7
13.1 UE, center of rd. at fence E., near quarter cor. between secs. 7 and 12, T. 79 N., R. 33 and 34 W.		1394.8
13.1 US&GS "Z 100 1935" (described in Line 8)		1386.861

LINE 10

<u>L. H. Bergerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>	
11.6 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 33 and 34, T. 78 N., R. 34 W.		1348.4
12.1 UE, 33 ft S. and 25 ft E. of crossroad, near cor. secs. 27, 28, 33 and 34, T. 78 N., R. 34 W., on top of center of headwall of culvert; chiseled cross		1307.61
12.6 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 27 and 28, T. 78 N., R. 34 W.		1361.3
13.1 Exira, 4.0 mi S. and 6.0 mi E. of, near cor. secs. 21, 22, 27 and 28, T. 78 N., R. 34 W., 205 ft S. and 30 ft W. of crossroad, 2 ft S. of a pole, in concrete post; standard tablet stamped "16 LB 1956" (reported not found 10/68)		1413.217
13.1 Reference mark, 30 ft N. and 27 ft W. of crossroads, on W. end of metal culvert; painted square		1421.68
13.6 UE, center of rd. at E.-W. fence, near quarter cor. between secs. 21 and 22, T. 78 N., R. 34 W.		1435.3
14.1 UE, center of crossroad, near cor. secs. 15, 16, 21 and 22, T. 78 N., R. 34 W.		1375.0
14.7 UE, center of concrete bridge, about 500 ft N. of quarter cor. between secs. 15 and 16, T. 78 N., R. 34 W.		1325.3
15.1 UE, center of crossroad, near cor. secs. 9, 10, 15 and 16, T. 78 N., R. 34 W.		1426.0
15.5 UE, center of rd. at fence E., near quarter cor. between secs. 9 and 10, T. 78 N., R. 34 W.		1405.8
16.0 "17 LB 1956" (described in Line 1)		1346.104

<u>LINE 10 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
16.1 Reference mark, 20 ft S. and 171 ft E. of crossroad, on S. end of metal culvert; painted square		1363.35
16.6 UE, center of T-rd. W., near S. sixteenth cor. between secs. 3, and 4, T. 78 N., R. 34 W.		1335.2
<u>CASEY QUAD. - 104</u>		
17.1 UE, T. 78 N., R. 34 W., near quarter. cor. between secs. 3 and 4, 85 ft S. of center of tangent of rd. E., 17 ft W. of center of rd. at curve, on W. end of large metal culvert; painted square		1313.9
17.8 UE, center of T-rd. N., near center of E. sixteenth cor. sec. 3, T. 78 N., R. 34 W.		1300.8
18.3 UE, center of rd. at fence W., near NE. sixteenth cor. sec. 3, T. 78 N., R. 34 W.,		1378.6
18.5 "9 LB 1956" (described in Line 9)		1378.921

LINE 11

<u>J. J. Ozmun, 1951; Book CV 488</u>	<u>CASEY QUAD. - 104</u>	
0.3 Guthrie Center, along State Hwy. 25 to street intersection, immediately S. of Old Ladies' Home, 31.0 ft NE. of center of intersection, 17.0 ft SW. of water cut-off, 63 ft NE. of 30-in. ash tree and 1.0 ft above level of street, in concrete post; bronze disk stamped "39 46" (elev. by USC&GS) (Reported not found 3/69 PJH)		1115.831
1.3 UE 46 A, 21 ft S. of and 1 ft lower than center of State Hwy. 25; top of N. end of corrugated steel culvert; painted square		1231.1
1.7 UE 46 B, 1.3 mi N. of tablet, 265 ft S. and 38 ft E. of crossroads and level with center of State Hwy. 25; RR. spike in pole		1177.9
2.2 UE 46 C, 1.9 mi N. of tablet, 47 ft E. of and 3 ft higher than center of State Hwy. 25; in pole; RR. spike		1183.6
2.7 Guthrie Center, 2.7 mi N. of, along State Hwy. 25, at intersection of State Hwys. 25 and 64, NW. cor. sec. 30, T. 80 N., R. 31 W., 471 ft S. and 47 ft E. of crossroads; 39 ft N. of telephone pole, 0.5 ft W. of fence, in concrete post; standard tablet stamped "TT 1 JO 1951" (reported not found 3/69 PJH)		1123.217
4.6 UE 1 C, 4.5 ft S., 43 ft W. and 1 ft higher than intersection of angle rd. SE., in power pole; rail spike	<u>PANORA QUAD. - 103</u>	1229.6
5.0 Guthrie Center, 4.9 mi N. of, along State Hwy. 25, at intersection of State Hwys. 25 and 64, NW. cor. sec. 17, T. 80 N., R. 31 W., 81 ft S., 51 ft E. and 3 ft lower than center of intersection of State Hwy. 25 and County Hwy. B, in concrete post; standard tablet stamped "T T 2 JO 1951" (reported not found 3/69 PJH)		1175.980

LINE 12

<u>J. J. Ozmun, 1951; Book CV 488</u>	<u>CASEY QUAD. - 104</u>	
0.0 At Guthrie Center, Guthrie County, at the NW. corner of the intersection of State Hwy. 64 and 25, 35 ft N. of the center of State Hwy. 64, 25 ft W. of the center of State Hwy. 25, 13 ft E. of the E. side of a brick building, 1 ft W. of a W. curb, and 2 in. higher than the curb; a State Survey standard disk stamped "39-45" and set in the top of a concrete post (reported not found, probably destroyed 11/68 PJH)		1116.861

<u>LINE 12 (Cont'd)</u>	<u>CASEY QUAD. - 104</u>	<u>FEET</u>
0.3 UE 39-45 A, (described in Line 7)		1074.84
1.1 UE 39-45 B, 1.0 mi S. of tablet, along State Hwy. 25, in end of SE. concrete wing of bridge across Bear Creek; chiseled square		1074.99
1.8 UE 39-45 C, about 2.0 mi S. of tablet, along State Hwy. 25, 42 ft E. of center of hwy., N. end of 18-in. corrugated metal pipe on last rib		1138.7
2.3 39-45 (Iowa Geod. Survey), 2.3 mi S. of; Guthrie Center, at intersection of Hwys. 25 64, and 2.3 mi S., T. 79 N., R. 31 W., quarter cor. between secs. 18 and 19, intersection of rds. E.-W. with State Hwy. 25 at; 350 ft S. of intersection and 52 ft W. of center of hwy., 6 ft E. of N.-S. fence and 5 ft NE. of power pole, in concrete post; standard tablet stamped "T T 10 JO 1951"		1220.550
2.2 Reference mark, 320 ft N. and 25 ft E. of tablet, in SW. corner of intersection, in top of S. end of 29-in. concrete pipe; chiseled square		1217.11
3.1 UE 10 A, 0.8 mi SE. of tablet, along State Hwy. 25, 65 ft E. of center of hwy., on S. slope of field entrance, on rock; painted square		1156.4
3.3 UE 10 B, 0.9 mi S. and 0.2 mi E. of tablet, along Hwy. 25, 45 ft W. of center of hwy., 25 ft SE. of center of T-rd. W., on last rib on S. end of 18-in. corrugated metal pipe		1150.2

PANORA QUAD. - 103

3.9 UE 10 C, 1.3 mi S. and 0.5 mi E. of tablet, along State Hwy. 25, 50 ft E. of center of hwy., under field entrance, on last rib on N. end of 24-in. corrugated metal pipe	1177.8
4.6 Guthrie Center, at jct. of Hwys. 25 and 64, and 4.3 mi S. and 0.5 mi E., T. 79 N., R. 31 W., cor. secs. 29, 30, 31 and 32, intersection of rds. E.-W. with State Hwy. 25, 715 ft S. of intersection and 100 ft W. of center of hwy., 4 ft NNW. of power pole, in concrete post; standard tablet stamped "T T 11 JO 1951"	1232.399