

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

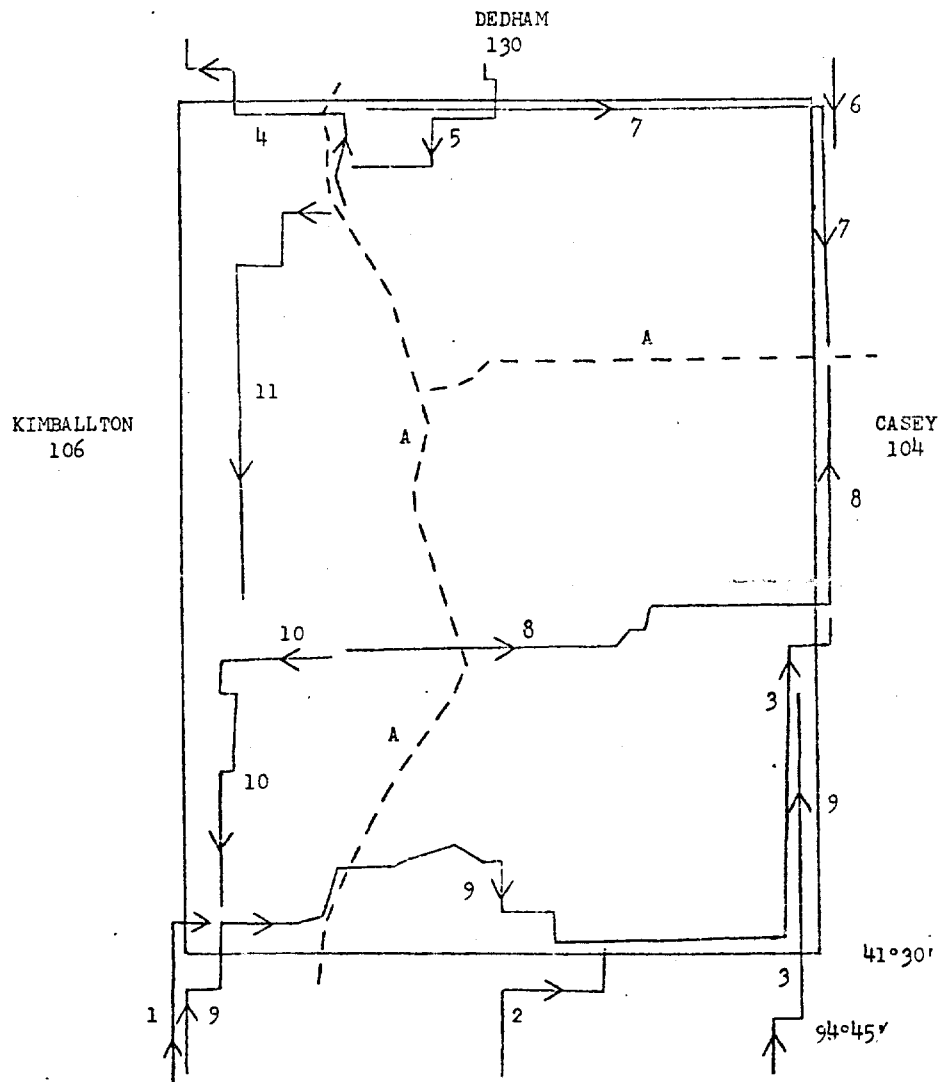
Audubon and Guthrie Counties

FINAL ADJUSTMENT OF 1969

Edition of 8/22/69

PR:AKH/CVB/gh

AUDUBON QUADRANGLE
105 - IOWA
N4130-W9445/15
DIAGRAM NK 15-7
OMAHA



USC&GS VERTICAL CONTROL DATA
A. Quadrangle 410944

105C

LINE 1

FEET

P. J. Hohenberger, 1968; Book CV 2338

MARNE QUAD. - 83

- 1 41 8.0 UE 29 LB D, about 2.5 mi N. along concrete and gravel rd. from BM, 13 ft N., 19 ft W. and 1.8 ft lower than T-rd. E., on top of W. end of a 2.5 ft corrugated pipe culvert; a punch mark and painted square (NOTE: culvert is slightly damaged) 1313.25
- 42 8.5 UE 29 LB E, about 2.5 mi N., thence 0.5 mi E. along concrete and gravel rds. from BM, 24 ft N. and 1.9 ft higher than rd., at SW. corner of bottom step of a sidewalk leading N. to center of a house; a chiseled square 1322.48

AUDUBON QUAD. - 105

- 43 9.0 Exira, 5.5 mi S. and 5.0 mi W. of; near quarter cor. secs. 33 and 34, T. 78 N., R. 36 W., 183 ft N. and 34 ft E. of crossroad, 33 ft S. of private drive E., 11 ft S. of a power pole, 1 ft W. of a fence corner, in concrete post; standard tablet stamped "21 LB 1956" 1366.536

LINE 2

P. J. Hohenberger, 1968; Book CV 2338

WIOTA QUAD. - 82

- 2 60 7.8 Exira, 7.0 mi S. and 2.25 mi E. of; near cor. secs. 1, 2, 11 and 12, T. 77 N., R. 35 W., 183 ft N. and 129 ft W. of crossroad, 27 ft S. and 42 ft E. of NE. corner of Highland Church, 1 ft S. and 2 ft W. of SE. corner of cemetery, in concrete post; standard tablet stamped "TT 27 LB 1956" (may be stamped "TT 26 LB 1956") 1382.620
- 61 8.3 UE 26 LB A, about 0.5 mi N. along gravel rd. from B.M., on top, near center of E. concrete curb of rd. overpass across Interstate 80, 107.5 ft S., 14 ft E. and 5.0 ft (estimated) higher than rd. at N. end of overpass, 0.5 ft W. of guard rail; a chiseled square 1309.64

AUDUBON QUAD. - 105

- 62 8.8 UE, 21 ft S. and 25 ft E. of center of large cottonwood tree; in center of crossroads, on S. end of metal culvert; a painted square 1327.80

LINE 3

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.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: TT stamping has been crossed out) 1288.156
- 76 5.7 UE 15 LB A, about 1.0 mi N. along concrete rd. from BM, at center of crossroads; a chiseled square 1306.60

<u>LINE 3 (Cont'd)</u>		<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
2	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 4

P. J. Hohenberger, 1969; Book CV 2338

AUDUBON QUAD. - 105

3	61 0.0	USC&GS Triangulation Station AUDUBON 1934; about 4.0 mi NW. of the town of Audubon, in the SW $\frac{1}{4}$ sec. 1, T. 80 N., R. 36 W., on land owned by Oswald Weiderstein (minor) and in charge of Louis Weiderstein, in the SW. corner of a small lot, 25 ft N. of fence line, 27 ft E. of fence line, 183 ft WNW. of well, 100 yards NW. of house, in the SE. corner of the SW. 40 acres of section, 400 ft N. and 306 ft W. of the SE. corner of above described 40; projecting 4 in.	1350.338
61	0.9	UE Audubon A, about 0.8 mi N. along U. S. Hwy. 71 from jct. with Broadway Street (leading E.) at Audubon, T. 80 N., R. 35 W., at NE. cor. sec. 20, 32 ft S., 53 ft W. and 8.0 ft lower than crossroads (U. S. 71 and County Rd. "NN", on top, in center of W. headwall of a concrete box culvert; a chiseled cross	1352.91
62	2.0	UE Audubon B, about 1.8 mi N. along U. S. Hwy. 71 from jct. with Broadway St. leading E. at Audubon, 19 ft S., 77 ft W. and 0.2 ft higher than crossroads, at SE. wingwall of a concrete bridge; a chiseled cross	1322.45
64	3.0	UE Audubon C, T. 80 N., R. 35 W., at cor. secs. 7, 8, 17 and 18, at center of crossroads; a chiseled cross	1392.98
65	4.0	UE Audubon D, T. 80 N., Rs. 35 and 36 W., at cor. secs. 7, 12, 13 and 18, at center of T-rd. N.; a chiseled cross	1436.64
66	4.1	Audubon, 2.0 mi N. and 2.25 mi W. of; near cor. secs. 7, 12, 13 and 18; T. 80 N., Rs. 35 and 36 W., 617 ft N. and 34 ft W. of T-rd. N., 2 ft S. and 2 ft W. of NE. fence corner of windbreak, in concrete post; standard tablet stamped "TT 30 LB 1956"	1442.752
66	5.0	UE 30 LB A, about 0.9 mi N. along gravel rd. from B.M., 28 ft S., 34 ft W. and 1.0 ft lower than crossroads, in NE. base of a right-of-way fence corner post projecting 0.3 ft; a rail spike	1473.94

LINE 4 (Cont'd)

DEDHAM QUAD. - 130

FEET

- 3 67 5.8 USC&GS Triangulation Station AUDUBON 2 1968, 97.5 ft S. of the SE. corner of a storage shed, 82 ft W. of the SW. corner of a barn and 51 ft NW. of the NW. corner of a small building; 11.0 mi NE. of Kimballton, 4.0 mi NW. of Audubon, and on property owned by Mr. Glen Christesen; USC&GS standard disk stamped "AUDUBON 2 1968", set in the top of a 12-in. round concrete monument flush with the ground 1494.244
- 67 5.8 Reference mark 5; 51 ft NNE. of the NE. corner of a small building and 1.5 ft W. of the SW. corner of the barn; a USC&GS standard disk stamped "AUDUBON 2 NO 5 1968" and set in the top of a 12-in. round concrete monument that is flush with the ground surface 1497.864
- 67 5.8 Reference mark 4; 82 ft NW. of the NW. corner of the barn and 1 ft SW. of the SE. corner of a storage shed; USC&GS standard disk stamped "AUDUBON 2 NO 4 1968", set in the top of a 12-in. round concrete monument that is flush with the ground surface 1498.168
- 68 6.2 UE Audubon 1968 A, about 0.25 mi W. along gravel rd. from B.M., T. 80 N., R. 36 W., at cor. secs. 1, 2, 11 and 12, at center of crossroads (gravel) 1442.5
- 68 6.6 UE Audubon 1968 B, about 0.25 mi W., thence 0.5 mi N. along gravel rd. from B.M., 37 ft E. and 1.3 ft lower than rd., in W. base of a T-fence corner post projecting 0.3 ft; a rail spike 1479.67

LINE 5

P. J. Hoherberger, 1969; Book CV 2338

DEDHAM QUAD. - 130

NOTE: Final three miles of this line contains 0.16 foot error
21.5

- 4 53/UE 45 PJH B, about 1.2 mi S. along gravel rd. from B.M., at center of wooden bridge across small creek 1299.7
- 54 21.7 UE 45 PJH C, about 1.6 mi S. along gravel rd. from B.M., about 300 ft S. of a T-rd. W., 45 ft S., 8.0 ft E. and 1.6 ft lower than center of a long wooden bridge, near E. end of S. set of pilings; directly above cut-off power pole used as bridge piling, set flush with top of a square wooden beam; a rail spike 1290.13
- 54 22.3 UE 45 PJH D, about 2.0 mi generally S. along gravel rd. from B.M., T. 80 N., R. 35 W., at the center of the NW $\frac{1}{4}$ sec. 12, 12 ft S., 37 ft E. and 0.5 ft lower than T-rd. W., in S. base of a power pole painted "UE" and projecting 0.5 ft; a rail spike 1337.35

AUDUBON QUAD. - 105

- 5 8 24.2 Audubon, 1.75 mi N. and 1.5 mi E. of; T. 80 N., R. 35 W., near cor. secs. 10, 11, 14 and 15; 35 ft N., and 267 ft E. and 12.8 ft lower than crossroad, between right-of-way fence and power pole, in concrete post; a standard tablet stamped "1 LB 1956" 1374.822
- 9 25.2 UE 1 LB A, about 1.0 mi S. along gravel rd. from B.M., 32 ft S., 16 ft W. and 4.1 ft lower than T-rd. N., on top of W. end of a 3.5 ft cement pipe culvert; a chiseled square 1341.50
- 10 25.9 UE 1 LB B, about 1.0 mi S. along gravel rd. thence 0.7 mi W. along concrete rd. from B.M., 23 ft S. and 4.5 ft lower than rd., on top of E. end of S. headwall of a concrete box culvert; chiseled square 1396.80

<u>LINE 5 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
5 11 26.2 UE 1 LB C, about 1.0 mi S. along gravel rd. thence 1.0 mi W. along concrete rd. from B.M., at center of crossroads; a chiseled square		1420.38
12 27.2 UE AUDUBON A, (described in Line 4)		1352.91

LINE 6

<u>P. J. Hohenberger, 1969; Book CV 2338</u>	<u>COON RAPIDS QUAD. - 129</u>	
5 33 26.1 Audubon, 3.0 mi N. and 9.5 mi E. of; near cor. secs. 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" (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 7

<u>L. H. Borgerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>
0.0 Audubon, 2.5 mi N. of; along U. S. Hwy. 71, 375 ft N. of abandoned RR. crossing of Hwy. 71, at a 50-ft concrete bridge on the Hwy., in the top of the SE. wingwall, 13 ft E. of center of hwy., 2.5 ft higher than the hwy.; USC&GS standard disk stamped "C 100 1935"	1331.628
0.6 UE, center of U. S. Hwy. 71 at center of E.-W. rd. between secs. 9, 16, T. 80 N., R. 35 W.; a chiseled square on pavement	1322.0
1.1 UE, center of rd. at N.-S. fence, near quarter cor. secs. 9, and 16, T. 80 N., R. 35 W.	1427.5
1.6 UE, center of crossroad, near cor. secs. 9, 10, 15 and 16, T. 80 N., R. 35 W.	1415.6
2.1 UE, center of rd. at N.-S. fence, near quarter cor. secs. 10, 15, T. 80 N., R. 35 W.	1413.2
2.6 "1 LB 1956" (described in Line 5)	1374.822
2.6 Reference mark, 300 ft W. of B.M., 36 ft N. and 34 ft W. of crossroad, between two power line poles, top of iron post about 1 ft above ground	1389.14
3.2 UE, center of rd. at fence N., near quarter cor. secs. 11 and 14, T. 80 N., R. 35 W.	1311.1
3.5 UE, center of bridge over Nishnabotna River (water=-21.0 6/7/56)	1288.7
3.9 UE, T. 80 N., R. 35 W., near W. sixteenth cor. secs. 12 and 13, 47 ft N., 26 ft W. and 3.6 ft lower than center of crossroads, on W. end of round concrete culvert; a chiseled square	1342.78
4.7 UE, T. 80 N., Rs. 34 and 35 W., near cor. secs. 13, 18, 19 and 24; 14 ft N. and 90 ft E. and level with rd. at N.-S. fence, on center of N. headwall of concrete culvert; a chiseled square	1389.20

<u>LINE 7 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
5.2	UE, center of rd. at N.-S. fence near quarter cor. secs. 7 and 18, T. 80 N., R. 34 W.	1382.6
5.7	Reference mark, 180 ft W. of B.M., 22 ft N. and 27 ft E. of crossroads, on N. end of a round metal culvert; a painted square	1452.13
5.7	Audubon, 1.75 mi N. and 4.5 mi E. of; near cor. secs. 7, 8, 17 and 18, T. 80 N., R. 34 W., 33 ft N. and 212 ft E. and 1.9 ft higher than crossroad, 1 ft N. and 1 ft E. of a fence corner in concrete post; a standard tablet stamped "2 LB 1956"	1454.574
6.3	UE, center of rd. at private drive N., near quarter cor. secs. 8 and 17, T. 80 N., R. 34 W.	1392.1
6.7	UE, center of crossroad, near cor. secs. 8, 9, 16 and 17, T. 80 N., R. 34 W.	1396.3
7.2	UE, T. 80 N., R. 34 W., near quarter cor. secs. 9 and 16, center of rd. opposite center of gates, on N.-S. side of rd.	1406.6
7.7	Reference mark, 380 ft W. of B.M., 22 ft N. and 31 ft W. of crossroad, on N. end of metal culvert; a painted square	1398.67
7.8	Audubon, 1.75 mi N. and 6.5 mi E. of; near cor. secs. 9, 10, 15 and 16, T. 80 N., R. 34 W., 33 ft S. and 345 ft E. and 2.8 ft higher than crossroad, 1 ft S. of fence and 2 ft W. of power pole, in concrete post; a standard tablet stamped "3 LB 1956"	1403.047
8.2	UE, center of rd. at fence N., near quarter cor. secs. 10 and 15, T. 80 N., R. 34 W.,	1387.8
8.7	UE, center of rd. at N.-S. fence, near cor. secs. 10, 11, 14, and 15; T. 80 N., R. 34 W.	1381.5
9.2	UE, center of rd. at fence N., near quarter cor. secs. 11 and 14, T. 80 N., R. 34 W.	1358.0
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 a fence post; in concrete post; a standard tablet stamped "4 LB 1956"	1386.665
9.8	Reference mark, 85 ft S. and 44 ft E. of B.M., 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. secs. 12 and 13; T. 80 N., R. 34 W.	1394.3
10.7	UE, center of crossroad, 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. 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; a chiseled square	1358.73
11.7	"5 LB 1956" (described in Line 6)	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; a chiseled square	1388.48
13.2	UE, center of rd. at E.-W. fence, near quarter cor. 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

<u>LINE 7 (Cont'd)</u>	<u>CASEY QUAD. - 104</u>	<u>FEET</u>
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 a 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. secs. 31 and 36; T. 80 N., Rs. 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. secs. 1 and 6, T. 79 N., Rs. 33 and 34 W.		1452.4
15.7 UE, center of U. S. Hwy. 64 at crossroad, near cor. secs. 1, 6, 7 and 12, T. 79 N., Rs. 33 and 34 W.; a chiseled square		1394.98
15.8 In Guthrie County, 8.7 mi E. along State Hwy. 64 from Chicago, Rock Island and 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 the top of the S. headwall, and level with the hwy.; USC&GS standard disk stamped "Z 100 1935"		1386.861

LINE 8

<u>L. H. Borgerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>	
0.0 At Exira, Audubon County, on the C. R. I. & P. RR., 8 poles S. of the station; at pole 455+16, 60 ft W. of the center of the track, at U. S. Hwy. 71 bridge over Davis Creek, in the top of the N. concrete pier, 14 ft E. of center of Hwy., and level with the track; a standard disk stamped "X 99 1935"		1225.299
0.5 UE, center of bridge over Nishnabotna River at Washington St. leading to Exira, Iowa (water level= -19.0 ft)		1226.7
0.9 UE, center of Washington and Kilworth Sts. in Exira, Iowa; a chiseled square		1269.50
1.8 UE, center of rd. at fence N., near E. sixteenth cor. sec. 3, T. 78 N., R. 35 W.		1351.8
2.5 UE, center of rd. at N.-S. fence, near center sec. 2, T. 78 N., R. 35 W.		1379.5
2.9 Reference mark, 125 ft W. of B.M., 39 ft S. of center of rd., 32 ft E. of center of a private drive S., in concrete right-of-way marker post; top of metal rod		1423.15
2.9 Exira, 2.0 mi E. of; T. 78 N., R. 35 W., near quarter cor. secs. 1 and 2; T. 78 N., R. 35 W., 36 ft S. and 450 ft W. and 13.3 ft higher than T-rd. S., 22 ft W. of private drive S., 3 ft S. and 1 ft E. of a pole, in concrete post; a standard tablet stamped "7 LB 1956" (reported destroyed 4/67, W.R. Div.)		1423.359
3.5 UE, center of T-rd. N., near center sec. 1, T. 78 N., R. 35 W.		1458.3
4.0 UE, center of rd. at N.-S. fence, near quarter cor. secs. 1 and 6; T. 78 N., Rs. 34 and 35 W.		1415.9
4.5 UE, center of T-rd. S., near center sec. 6, T. 78 N., R. 34 W.		1394.7
5.0 UE, center of rd. at E.-W. fence, near quarter cor. secs. 5, 6, T. 78 N., R. 34 E.		1306.3
5.5 UE, center of rd. at E.-W. fence, near N. sixteenth cor. secs. 5 and 6; T. 78 N., R. 34 W.		1312.7

<u>LINE 8 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
5.8 Reference mark, 69 ft S. of B.M., 33 ft S. and 20 ft W. of T-rd. S., on W. end of metal culvert; a painted square		1323.98
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, between 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, between 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. (water level = -13.2)		1291.9
<u>CASEY QUAD. - 104</u>		
8.5 Reference mark, 37 ft N. and 37 ft W. of B.M., SE. corner of concrete walk on S. side of porch of house; a 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. 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; a painted square		1329.6
10.1 UE, center of rd. at fence E., near quarter cor. 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 a private drive in front of house, on concrete well; a chiseled square		1469.27
11.3 Exira, 3.0 mi N. and 7.0 mi E. of; near quarter cor. 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 a 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., Rs. 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. secs. 7 and 12; T. 79 N., Rs. 33 and 34 W.		1394.8

LINE 8 (Cont'd)

CASEY QUAD. - 104

FEET

13.8 USC&GS "Z 100 1935" (described in Line 7)

1386.861

LINE 9

L. H. Borgerding, 1956; Book CV 740

AUDUBON QUAD. - 105

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| 0.0 | In Audubon County, 3.8 mi N. along the C. R. I. & P. RR. from the station at Lorah, Cass County, at pole 450+18, at a rd. crossing, near center sec. 25, T. 78 N., R. 36 W., 22 ft W. of center of track, 19 ft N. of center of rd., 47.8 ft E. of the E. edge of the pavement of U. S. Hwy. 71, 25 ft NE. of an iron marker; a State Survey standard disk stamped "5-324" and set in the top of a concrete post flush with the ground | 1196.730 |
| 0.4 | UE, center of private drive at curve, near quarter cor. secs. 25 and 30; T. 78 N., R. 35 and 36 W. | 1263.4 |
| 0.8 | UE, center of T-rd. W., near center sec. 30, T. 78 N., R. 35 W. | 1342.6 |
| 1.4 | Exira, 4.25 mi S. and 1.5 mi W. of; near N. sixteenth cor. between secs. 29 and 30, T. 78 N., R. 35 W., 32 ft N. and 510 ft E. of T-rd. E., 172 ft E. of fence N., 2 ft W. of a power pole; in concrete post; standard tablet stamped "11 LB 1956" | 1356.660 |
| 2.3 | UE, center of County Rd. "T" opposite T-rd. S., near cor. secs. 20, 21, 28 and 29; T. 78 N., R. 35 W. | 1411.9 |
| 3.0 | UE, center of rd. at N.-S. fence, near center N. sixteenth cor. secs. 28, T. 78 N., R. 35 W. | 1423.4 |
| 3.4 | Exira, 4.0 mi S. and 0.25 mi E. of; at jct. of County Rds. "T" and "K", near N. sixteenth cor. between secs. 27 and 28, T. 78 N., R. 35 W., 36 ft S. and 260 ft W. of crossroad, 12 ft S. of the right-of-way fence, between a power pole and guy wire; in concrete post; standard tablet stamped "12 LB 1956" | 1405.720 |
| 3.5 | Reference mark, 310 ft E. of B.M., 23 ft N. and 42 ft E. of crossroad, on N. end of metal culvert; a painted square | 1406.06 |
| 4.0 | UE, center of T-rd. E., near S. sixteenth cor. between secs. 27 and 28; T. 78 N., R. 35 W. | 1379.7 |
| 4.5 | UE, center of rd. at E.-W. fence, near N. sixteenth cor. between secs. 33 and 34; T. 78 N., R. 35 W. | 1380.9 |
| 5.0 | UE, center of T-rd. S., near center W. sixteenth cor. sec. 34, T. 78 N., R. 35 W. | 1356.1 |
| 5.5 | UE, center of rd. at fence S., along W. edge of cemetery, near center E. sixteenth cor. sec. 34, T. 78 N., R. 35 W. | 1320.5 |
| 6.2 | Exira, 6.0 mi S. and 1.0 mi E. of; near cor. secs. 2, 3, 34 and 35; Tps. 77 and 78 N., R. 35 W., 15 ft S. and 16 ft W. of rd. N.-E., and field rd. S., 1 ft W. of a power pole, in concrete post; standard tablet stamped "13 LB 1956" | 1231.251 |
| 6.3 | Reference mark, 570 ft E. of B.M., 9 ft S. and 31 ft W. of center of bridge, on top of S. end of metal beam | 1226.46 |
| 6.7 | UE, center of rd. at fence N. near quarter cor. secs. 2 and 35; Tps. 77 and 78 N., R. 35 W. | 1241.4 |
| 7.2 | UE, 21 ft S. and 25 ft E. of center of large cottonwood tree in center of crossroads, on S. end of metal culvert; a painted square | 1327.8 |
| 7.7 | UE, center of rd. at fence N. and rd. S., near quarter cor. secs. 1 and 36; Tps. 77 and 78 N., R. 35 W. | 1317.9 |

<u>LINE 9 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
8.2 UE, center of rd. at N.-S. fence, near cor. secs. 1, 6, 31 and 36, Tps. 77 and 78 N., Rs. 34 and 35 W.		1401.0
8.7 UE, center of rd. at N.-S. fence, near quarter cor. secs. 6, and 31; Tps. 77 and 78 N., R. 34 W.		1341.9
9.2 Exira, 6.0 mi S. and 4.0 mi E. of, near cor. secs. 5, 6, 31 and 32; Tps. 77 and 78 N., R. 34 W., 31 ft N. and 214 ft E. of crossroad; 45 ft W. of drive N., 2 ft W. of a power pole and 1 ft S. of fence, in front of house; in concrete post; standard tablet stamped "14 LB 1956"		1378.627
9.2 Reference mark, 58 ft E. of B.M., 25 ft N. of center of rd., 13 ft E. of center of drive N. on E. end of round concrete culvert; a chiseled square		1373.44
9.7 UE, center of bridge, near quarter cor. secs. 5 and 32; Tps. 77 and 78 N., R. 34 W.		1279.1
10.1 UE, center of crossroad, near cor. secs. 4, 5, 32 and 33; Tps. 77 and 78 N., R. 34 W.		1267.9
10.6 UE, center of rd. at fence N., near quarter cor. secs. 4 and 33; Tps. 77 and 78 N., R. 34 W.		1267.9
11.6 UE, center of rd. at E.-W. fence, near quarter cor. 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 culvert; a chiseled cross		1307.61
12.6 UE, center of rd. at E.-W. fence, near quarter cor. secs. 27, 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, probably destroyed 10/68 PJH)		1413.217
13.1 Reference mark, 30 ft N. and 27 ft W. of crossroads, on W. end of metal culvert; a painted square		1421.68
13.6 UE, center of rd. at E.-W. fence, near quarter cor. 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. secs. 15, 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. secs. 9 and 10, T. 78 N., R. 34 W.		1405.8
16.0 "17 LB 1956" (described in Line 3)		1346.104
16.1 Reference mark, 20 ft S. and 171 ft E. of crossroad, on S. end of metal culvert; a 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>LINE 9 (Cont'd)</u>	<u>CASEY QUAD. - 104</u>	<u>FEET</u>
17.1 UE, T. 78 N., R. 34 W., near quarter cor. 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 a large metal culvert; a painted square		1313.9
17.8 UE, center of T-rd. N., near center 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 8)		1378.921

LINE 10

<u>L. H. Borgerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>	
0.0 USC&GS "X 99 1935" (described in Line 8)		1225.299
0.9 UE, center of rd. at N.-S. fence, near center sec. 5, T. 78 N., R. 35 W.		1334.6
1.6 UE, center of T-rd. N., near center E. sixteenth cor. sec. 6, T. 78 N., R. 35 W.		1338.8
2.1 Reference mark, 600 ft E. of B.M., 12 ft N. and 30 ft E. of center of bridge, on NW. corner of E. metal base; a painted square		1269.18
2.2 Exira, 2.0 mi W. of; near quarter cor. between secs. 1 and 6, T. 78 N., R. 35 and 36 W., 38 ft N. and 300 ft W. of T-rd. S., 47 ft W. of a fence corner, 3 ft W. of a pole, and in front of a house, in concrete post; standard tablet stamped "18 LB 1956"		1285.625
2.6 UE, center of rd. at N.-S. fence, near center sec. 1, T. 78 N., R. 36 W.		1409.6
3.2 UE, center of T-rd. S., near quarter cor. between secs. 1 and 2, T. 78 N., R. 36 W.		1448.1
3.7 UE, center of T-rd. N., near center sec. 2, T. 78 N., R. 36 W.		1426.8
4.0 Exira Triangulation Station 1930; Exira, 4.0 mi W. of, in W. part of sec. 2, T. 78 N., R. 36 W., about 0.1 mi E. of a T-rd. N., the station is in a windbreak, about 450 ft N. of a house, 18 ft W. of gate in NE. corner of hog lot; 20 ft N. of E.-W. fence in S. side of windbreak; a standard USC&GS Triangulation disk stamped "EXIRA 1930" set in a concrete post flush with the ground		1479.755
4.0 Reference mark No. 1, 36 ft N. and 20 ft E. of station, in concrete post; stamped "R.M. No. 1"		1480.20
4.2 UE, 16 ft N. of center of rd. and 71 ft W. of center of private drive N. to farmhouse, near center of W. edge of sec. 2, T. 78 N., R. 36 W., on N. end of a round concrete culvert; a chiseled square		1458.03
4.9 UE, center of T-rd. N., near center sec. 3, T. 78 N., R. 36 W.		1416.8
5.4 UE, center of T-rd. S., near quarter cor. between secs. 3 and 4, T. 78 N., R. 36 W.		1434.8
5.9 Reference mark, 570 ft N. of B.M., 18 ft E. of center of rd., on E. end of metal culvert; a painted square		1346.26
6.0 Exira, 1.0 mi S. and 5.0 mi W. of; near cor. secs. 3, 4, 9, and 10, T. 78 N., R. 36 W., 418 ft N. and 30 ft W. of T-rd. N., 2 ft S. of a power pole, 1 ft E. of a fence, in concrete post; a standard tablet stamped "19 LB 1956"		1377.800
6.3 UE, center of T-rd. S., near W. sixteenth cor. between secs. 3 and 10, T. 78 N., R. 36 W.		1357.3

<u>LINE 10 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
7.1 UE, center of T-rd. W., near SW. sixteenth cor. sec. 10, T. 78 N., R. 36 W.		1327.1
7.8 UE, center of T-rd. N., near W. sixteenth cor. sec. 15, T. 78 N., R. 36 W.		1348.7
8.4 UE, center of bridge, near S. sixteenth cor. between secs. 15 and 16, T. 78 N., R. 36 W.		1260.4
8.9 Reference mark, 90 ft S. and 460 ft W. of B.M., 43 ft S. and 17 ft E. of T-rd. S., on E. end of metal culvert; a painted square		1250.20
9.0 Exira, 3.25 mi S. and 5 mi W. of; near N. sixteenth cor. between secs. 21 and 22, T. 78 N., R. 36 W., 48 ft N. and 375 ft E. of T-rd. S., 15 ft E. of private drive N., 2 ft S. and 2 ft E. of the SW. fence corner of a yard, in concrete post; standard tablet stamped "20 LB 1956"		1256.586
9.4 UE, center of rd. at private drive E., about 800 ft S. of quarter cor. between secs. 21 and 22, T. 78 N., R. 36 W.		1246.0
9.8 UE, center of T-rd. W., near cor. secs. 21, 22, 27 and 28, T. 78 N., R. 36 W.		1316.2
10.3 UE, center of rd. at fence W., near quarter cor. secs. 27 and 28, T. 78 N., R. 36 W.		1335.8
10.7 UE, center of rd. at E.-W. fence, near cor. secs. 27, 28, 33 and 34; T. 78 N., R. 36 W.		1366.0
11.2 Reference mark, 274 ft N. and 150 ft E. of crossroads, on NW. corner at end of sidewalk leading W.; a chiseled square		1372.71
11.2 "21 LB 1956" (described in Line 1)		1366.536
12.0 UE, center of rd. at private drive S., about 1000 ft W. of quarter cor. between secs. 34 and 35, T. 78 N., R. 36 W.		1320.1
12.7 UE, center of crossroads, near center sec. 35, T. 78 N., R. 36 W.		1235.6
13.4 UE, center of U. S. Hwy. 71 at crossroads, between center of sec. 36, T. 78 N., R. 36 W.; a chiseled square		1198.58
13.9 Reference mark, center of U. S. Hwy. 71, in line with fence W.; a chiseled square		1197.70
14.0 Exira, 5.0 mi S. and 3.5 mi W. of; along U. S. Hwy. 71, near W. sixteenth cor. between secs. 25 and 36, T. 78 N., R. 36 W., 45 ft E. of center of Hwy., 39 ft N. of a fence W. and a drive between RR. tracks and hwy., 39 ft W. of center of tracks, 17 ft NE. of an iron marker; a State Survey standard disk; stamped "5-325" and set in the top of a concrete post		1194.358

LINE 11

<u>L. H. Borgerding, 1956; Book CV 740</u>	<u>AUDUBON QUAD. - 105</u>	
0.0 US&GS Triangulation Station AUDUBON 1934 (described in Line 4)		1350.338
0.4 UE, center of cross street, South and Market Street in Audubon; a chiseled square		1304.84
1.0 UE, center of rd. at fence N. along W. edge of Audubon's Country Club Golf Course		1363.9
1.6 Audubon, 1.25 mi W. of; near cor. secs. 7, 8, 17, and 18; T. 80 N., R. 35 W., 91 ft N. and 350 ft E. of T-rd. S., 2 ft N. and 1 ft W. of SW. corner of barnyard fence, in concrete post; standard tablet stamped "22 LB 1956" (probably near cor. secs. 19, 20, 29, and 30)		1360.851

<u>LINE 11 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
1.7 Reference mark, 255 ft S. and 20 ft E. of T-rd. S., on E. end of large round metal culvert; a painted square		1367.33
2.1 UE, center of rd. at E.-W. fence, near quarter cor. secs. 29 and 30, T. 80 N., R. 35 W.		1467.2
2.6 UE, center of crossroads, near cor. secs. 29, 30, 31 and 32; T. 80 N., R. 35 W.		1392.9
3.2 UE, center of rd. at fence S., near quarter cor. secs. 30 and 31, T. 80 N., R. 35 W.		1385.2
3.7 UE, center of T-rd. S., near cor. secs. 25, 30, 31 and 36, T. 80 N., Rs. 35 and 36 W.		1439.9
4.2 UE, center of rd. at E.-W. fence, near quarter cor. secs. 31 and 36, T. 80 N., Rs. 35 and 36 W.		1402.1
4.5 Audubon, 2.0 mi S. and 2.25 mi W. of; near cor. secs. 1, 6, 31 and 36; Tps. 79 and 80 N., Rs. 35 and 36 W., about 750 ft N. and 40 ft E. of crossroads, 78 ft S. of a private drive E., 2 ft N. and 2 ft E. of a fence corner; in concrete post; standard tablet stamped "23 LB 1956"		1426.194
4.6 Reference mark, 440 ft S. and 58 ft W. of B.M., 18 ft W. of center of rd., on W. end of metal culvert; a painted square		1395.99 ✓
5.0 UE, center of concrete bridge; about 1000 ft N. of quarter cor. secs. 1 and 6, T. 79 N., Rs. 35 and 36 W.; a chiseled square		1334.61 ✓
5.6 UE, center of crossroads, near cor. secs. 1 and 6, 7 and 12, T. 79 N., Rs. 35 and 36 W.		1396.0 ✓
6.1 UE, center of rd. at fence E., near quarter cor. secs. 7 and 12, T. 79 N., Rs. 35 and 36 W.		1447.8 ✓
6.7 UE, center of State Hwy. 64 at crossroad, about 600 ft S. of cor. secs. 7, 12, 13 and 18; T. 79 N., Rs. 35 and 36 W.; a chiseled square		1472.58 ✓
7.6 Exira, 4.0 mi N. and 4.5 mi W. of; near cor. secs. 13, 18, 19 and 24, T. 79 N., Rs. 35 and 36 W., 347 ft N. and 39 ft W. of T-rd. W., 2 ft S. of a pole and 1 ft E. of right-of-way fence, in concrete post; standard tablet stamped "24 LB 1956"		1402.932
7.6 Reference mark, 330 ft S. of B.M., 23 ft N. and 19 ft E. of T-rd. W., on E. end of culvert; a painted square		1404.43
8.1 UE, center of rd. at E.-W. fence near quarter cor. secs. 19 and 24, T. 79 N., Rs. 35 and 36 W.		1413.7
8.6 UE, center of T-rd. W., near cor. secs. 19, 24, 25 and 30, T. 79 N., Rs. 35 and 36 W.		1421.9
9.1 UE, center of rd. at fence E., near quarter cor. secs. 25 and 30, T. 79 N., Rs. 35 and 36 W.		1431.9
9.3 Exira, 2.0 mi N. and 4.5 mi W. of; near cor. secs. 25, 30, 31 and 36, T. 79 N., Rs. 35 and 36 W., 1350 ft N. and 40 ft W. of crossroads, 21 ft N. of center of private drive W., 1 ft N. of a pole and 1 ft E. of right-of-way fence, in concrete post; standard tablet stamped "25 LB 1956"		1420.876
9.4 Reference mark, 390 ft S. of B.M., 20 ft E. of center of rd., on E. end of metal culvert a painted square		1414.13
9.6 UE, center of crossroads, near cor. secs. 25, 30, 31 and 36; T. 79 N., Rs. 35 and 36 W.		1420.9

<u>LINE 11 (Cont'd)</u>	<u>AUDUBON QUAD. - 105</u>	<u>FEET</u>
10.1 UE, center of rd. at E.-W. fence, near quarter cor. secs. 31 and 36, T. 79 N., Rs. 35 and 36 W.		1345.5
10.6 UE, center of T-rd. N., near cor. secs. 31 and 36, T. 79 N., Rs. 35 and 36 W., and quarter cor. sec. 3, T. 78 N., R. 36 W.		1318.9
11.3 UE, center of rd. at E.-W. fence near $N\frac{1}{4}$ of E. edge of sec. 3, T. 78 N., R. 36 W.		1364.6
11.9 UE 1458.0 (described in Line 10)		1458.03