

HIGH-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Final adjustment of 1976

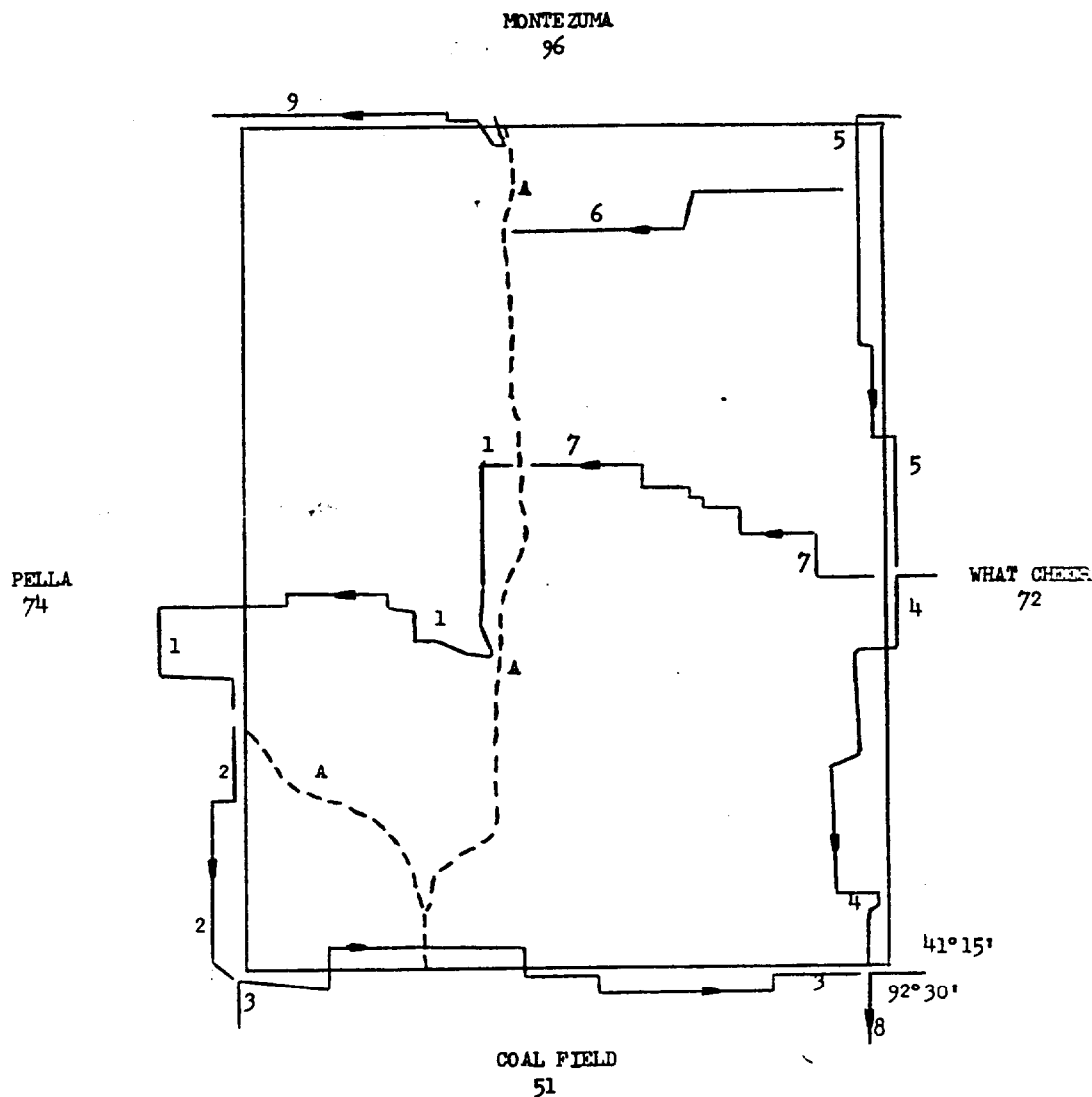
Mahaska County

Edition of: 4/8/76

PR: ADP/lcb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

41-092-31
OSKALOOSA QUADRANGLE
73 - IOWA
N215-W9230/15
DIAPHRAM NK 15-8
DES MOINES



73-D

LINE 1

FEET

W.E. Knouse, 1967; Book CV-2192

OSKALOOSA QUAD. - 73

0.0	At Lacey, Mahaska County, in SW. cor. of brick school building and about 3.5 ft above the sidewalk; a standard USC&GS disk stamped "H 87 1934" and set vertically	842.200
0.3	UE H 87 A; T. 76 N., Rs. 15 and 16 W.; near cor. secs. 7, 12, 13 and 18; 25 ft N. and 28 ft W. of crossroads; on top and near N. end of a 4-ft steel culvert; chiseled cross	776.14
0.8	UE H 87 B; T. 76 N., Rs. 15 and 16 W.; about 0.4 mi S. along gravel rd. from cor. secs. 7, 12, 13 and 18; about 0.1 mi S. of RR. overpass; 33 ft S. of rd. at fence NW.; 13 ft E. of center of N.-S. rd., on top and near center of the E. headwall of a concrete culvert; chiseled square (UE 9 ft above drain; UE 0.1 ft higher than center of rd. at drain)	743.81
1.2	UE H 87 C; T. 76 N., Rs. 15 and 16 W.; between SE $\frac{1}{4}$ sec. 13 and SW $\frac{1}{4}$ sec. 18; about 0.35 mi N. of T-rd. N., 10 ft W. of center of N.-S. rd., on top of W. end of corrugated steel culvert; punched hole	786.63
1.6	UE H 87 D; T. 76 N., Rs. 15 and 16 W.; between NE $\frac{1}{4}$ sec. 24 and NW $\frac{1}{4}$ sec. 19; 51 ft N. and 41 ft W. of RR. crossing, 130 ft S. and 18 ft W. of staggered T-rd. N.; in NW. side of a power pole; rail spike	744.28
2.0	UE H 87 E; T. 76 N., R. 16 W.; in N. central portion of sec. 24; 13.5 ft N. and 113 ft W. of field drive N., on top and on N. headwall of concrete box culvert; chiseled square	765.70
2.4	UE H 87 F; T. 76 N., R. 16 W.; near center of the NW $\frac{1}{4}$ of sec. 24; 22 ft W. and 12.5 ft N. of T-rd. E. (U.S. Hwy. 63 and gravel rd. E.); on top of N. end of a concrete pipe culvert (under farm drive W.); chiseled square	781.45
3.1	Lacey, 1.75 mi S. and 0.75 mi W. from; 4 mi N. from Oskaloosa along U.S. Hwy. 63; T. 76 N., R. 16 W.; in SW $\frac{1}{4}$ sec. 24; 605 ft N. and 39 ft E. of T-rd. E.; on top and center of E. concrete headwall of culvert; a standard tablet stamped "1 WEK 1967"	749.705
3.1	Reference mark; T. 76 N., R. 16 W.; in SW $\frac{1}{4}$ of sec. 24; 605 ft N. and 25 ft W. of T-rd. E.; on top and near center of W. concrete headwall of culvert; Iowa State Highway Commission plug	753.84
3.2	UE 1 WEK A; T. 76 N., R. 16 W.; near SW $\frac{1}{4}$ of sec. 24; NW. edge of sec. 25; center of U.S. Hwy. at T-rd. E.; copper nail and washer	750.37
3.8	UE 1 WEK B; T. 76 N., R. 16 W.; in SW $\frac{1}{4}$ sec. 25; 12 ft W. of center of bridge over South Skunk River and 0.8 ft higher than floor of bridge; on top of W. concrete wheel guard of bridge; chiseled square	713.55
4.2	UE 1 WEK C; T. 76 N., R. 16 W.; near SW. edge sec. 25 and NW. edge of sec. 36; 24 ft S. and 45 ft E. of T-rd. E. (U.S. Hwy. 63 and gravel rd. E.): on top of S. end of a corrugated steel culvert; punched mark	768.73
4.7	UE 1 WEK D; T. 76 N., R. 16 W.; near center of sec. 36; 24 ft S. and 28 ft W. of T-rd. W. (U.S. Hwy. 63 and rd. WNW.); on top of S. end of concrete pipe culvert; chiseled square	802.52
5.7	Lacey, 3.5 mi S. and 1.5 mi W. from; 6 mi E. and 0.5 mi N. from Leighton; T. 76 N., R. 16 W.; in N. central portion sec. 35; 12 ft N. of center of rd., on E. end of N. wheel guard of bridge; a standard tablet stamped "2 WEK 1967" on bridge 0.8 ft below BM	713.212
5.7	Reference mark; T. 76 N., R. 16 W.; in N. central portion of sec. 35; 12 ft S. of center of rd.; on W. end of S. wheel guard of bridge; chiseled square	713.16

<u>LINE 1 (Cont'd)</u>	<u>OSKALOOSA QUAD. - 73</u>	<u>FEET</u>
6.0 UE 2 WEK A; T. 76 N., R. 16 W.; in NW $\frac{1}{4}$ sec. 35; 25 ft N. and 22.5 ft E. of T-rd. N.; on top of E. end of corrugated steel culvert; punched hole		731.40
6.5 UE 2 WEK C; T. 76 N., R. 16 W.; between SW $\frac{1}{4}$ sec. 26 and SE $\frac{1}{4}$ sec. 27; 40 ft N. and 19 ft W. of rd. at farm yard fence W.; on top W. end of steel culvert; chiseled cross		807.30
7.0 UE 2 WEK D; T. 76 N., R. 16 W.; in E. central portion of sec. 27; 25 ft S. and 15.5 ft E. of T-rd. S.; on top of E. end of corrugated steel culvert; punched hole		779.76
7.6 UE 2 WEK E; T. 76 N., R. 16 E.; in W. central portion of sec. 27; 22 ft S. and 17 ft E. of T-rd. E.; on top of S. end of concrete pipe culvert; chiseled square		811.23
8.3 Leighton, 1.5 mi N. and 4 mi E. from; T. 76 N., R. 16 W.; in NE $\frac{1}{4}$ sec. 28; 19 ft N. and 41 ft E. of rd. at field entrance S.; 7.7 ft above drain and 2 ft lower than rd. at drain; on top and center of N. concrete headwall of concrete box culvert; a standard tablet stamped "3 WEK 1967"		735.627
8.3 Reference mark; T. 76 N., R. 16 W.; in NE $\frac{1}{4}$ sec. 28; 22 ft S. and 10 ft E. of rd. at field entrance S.; on top of E. end of concrete pipe culvert (E. end culvert concrete, W. end is metal); chiseled square		736.19
8.8 UE 3 WEK A; T. 76 N., R. 16 W.; in NW $\frac{1}{4}$ sec. 28; about 0.3 mi W. of crossroads; (N. branch of crossroad is dead end about 0.25 mi N.); 18 ft S. of center and about 2 ft lower than rd. at drain; on top and center of S. headwall of box culvert; chiseled square (6 ft above drain)		740.60
10.1 UE 3 WEK C; T. 76 N., R. 16 W.; in W. central portion of sec. 29; 13 ft N. and 26 ft W. of T-rd. W.; on top of N. concrete headwall of culvert; chiseled square		790.23
10.3 UE 3 WEK D; T. 76 N., R. 16 W.; near quarter cor. secs. 29 and 30; 28 ft S. and 10 ft W. of drive S.; 28 ft S. and 12 ft E. of T-rd. N., on W. end of corrugated steel culvert (under farm drive); punched hole		820.48
10.8 UE 3 WEK E; T. 76 N., R. 16 W.; near cor. secs. 19, 20, 29 and 30; 22 ft N. and 31 ft W. of T-rd. W.; on top of N. end of corrugated steel culvert; punched hole		799.94
11.1 UE 3 WEK F; T. 76 N., R. 16 W.; in SE. portion of sec. 19; 10 ft NE. of center of bridge; on top and center of NE. wheel guard of bridge; chiseled square, (center of bridge is 0.7 ft lower than UE)		738.42
11.5 Leighton, 2 mi N. and 2 mi E. from; T. 76 N., R. 16 W.; in S. central portion of sec. 19; 14 ft N. and 59 ft E. of rd. at drive N.; 14 ft N. of center of rd. at drain; on top and center of N. concrete headwall of box culvert; a standard tablet stamped "4 WEK 1967"		783.879
11.5 Reference mark; T. 76 N., R. 16 W.; in S. central portion of sec. 19; 24 ft N. and 17 ft E. of rd. at drive N., on E. end of 4-ft. steel culvert; chiseled square		784.81
<u>PELLA QUAD. - 74</u>		
12.0 UE 4 WEK A; T. 76 N., Rs. 16 and 17 W.; between SW $\frac{1}{4}$ sec. 19 and SE $\frac{1}{4}$ sec. 24; 28 ft S. and 29 ft E. of T-rd. E.; S. end of corrugated steel culvert; punched hole		811.01
12.7 UE 4 WEK B; T. 76 N., Rs. 16 and 17 W.; near quarter cor. secs. 25 and 30; 27 ft N. and 35 ft W. of T-rd. W.; on top of a 5/8-in. reinforcement rod in a concrete right-of-way post; top of reinforcement rod		844.59
13.4 Leighton, 1 mi N. and 0.5 mi E. from; T. 76 N., R. 17 W.; in E. central portion of sec. 25; 225 ft SE. along State Hwy. 163 from crossroads; 25 ft NE. and perpendicular to center of Hwy. 163; on top of concrete headwall of culvert; a standard tablet stamped "5 WEK 1967"		854.372

<u>LINE 1 (Cont'd)</u>	<u>PELLA QUAD. - 74</u>	<u>FEET</u>
13.5 Reference mark; T. 76 N., R. 17 W.; in E. central portion of sec. 25; 21 ft S. and perpendicular to center of E.-W. rd.; 47 ft NE. and perpendicular to center of State Hwy. 163; about 100 ft ESE. of rd. crossing; on top of SE. end of corrugated steel culvert; punched hole		853.68
14.2 UE 5 WEK A; T. 76 N., R. 17 W.; near center of sec. 26; center of paved rd. at T-rd. W.; (T-rd. W. is part of slightly offset crossroads); chiseled square at center of rd.		849.24
15.0 UE 5 WEK B; T. 76 N., R. 17 W.; about 0.2 mi N. of center sec. 35; 25 ft W. of center of paved rd., on top of W. end of corrugated steel culvert; punched hole		815.94
15.7 Leighton, Mahaska County; T. 76 N., R. 17 W.; in extreme S. central portion of sec. 35; about 900 ft SE. from Chicago, Rock Island and Pacific RR. crossing between powerline towers 283 and 284; 73 ft NE. of center of the track along a N.-S. field line; about 180 ft SW. of a 90° bend in county rd.; which turns from N. to E.; a USGS standard cap stamped "760 Iowa" and riveted on the top of a 3/2-in. iron pipe		759.854

LINE 2

<u>W.E. Knouse, 1967, Book CV-2192</u>	<u>PELLA QUAD. - 74</u>	
0.0 "BM 760" (previously described in line 1)		759.854
0.5 UE 760 A; Ts. 75 and 76 N., R. 17 W.; near cor. secs. 1, 2, 35 and 36; 47 ft N. and 6 ft E. of T-rd. S.; 47 ft N. and 13 ft E. of rd. at drive N., in S. side of a power pole; a rail spike		827.80
1.2 UE 760 B; T. 75 N., R. 17 W.; about 0.72 mi S. of cor. secs. 1, 2, 35 and 36; 30 ft N. and 19 ft W. of rd. at fence W.; 19 ft W. of rd. at drain; about 5.9 ft lower than rd. at drain; on top of W. end of a steel culvert; chiseled cross		792.78
2.0 WE 760 C; T. 75 N., R. 17 W.; near quarter cor. secs. 11 and 12; 21 ft N. and 420 ft E. of crossroads; on top N. end of corrugated steel culvert; punched hole (UE about 2.7 ft lower than rd. at drain		827.14
2.6 Leighton, 1.7 mi S. and 1 mi E. from; T. 75 N., R. 17 W.; in S. central portion of sec. 12; about 850 ft S. and 17 ft W. of T-rd. S.; on top of S. end of W. concrete headwall of box culvert; a standard tablet stamped "6 WEK 1967"		802.771
2.6 Reference mark; T. 75 N., R. 17 W.; in S. central portion of sec. 12; about 850 ft S. and 16 ft E. of T-rd. S.; on top of N. end of E. concrete headwall of concrete box culvert; chiseled square		802.09
3.5 UE 6 WEK A; T. 75 N., R. 17 W.; near center sec. 13; 35 ft N. and 49 ft E. of T-rd. E.; in SW. side of a power pole; rail spike		838.47
4.0 UE 6 WEK B; T. 75 N., R. 17 W.; near quarter cor. secs. 13 and 24; 165 ft N. and 22 ft W. of crossroads; 22 ft W. and 10 ft S. of rd. at drive W.; on top of S. end of concrete pipe culvert under drive; chiseled square		770.06
4.7 Leighton, 1 mi E. and 3.75 mi S. from; T. 75 N., R. 17 W.; in S. central portion of sec. 24; 11 ft E. of center of rd., 0.8 ft higher than center of bridge; on S. end of E. wheel guard of bridge; a standard tablet stamped "7 WEK 1967"		716.522
4.7 Reference mark; T. 75 N., R. 17 W.; in S. central portion of sec. 24; 11 ft W. of center of road, on N. end of W. concrete wheel guard; chiseled square		716.52

LINE 2 (Cont'd)

PELLA QUAD. - 74

FEET

- 5.0 UE 7 WEK A; T. 75 N., R. 17 W.; near quarter cor. secs. 24 and 25; 73 ft E. of center of rd. N.; 88 ft N. of center of E.-W. rd.; in SE. side of a power pole; rail spike 733.64
- 5.6 UE 7 WEK B; T. 75 N., R. 17 W.; about 0.1 mi SE. of center of sec. 25; along a gravel road; 25 ft W. of center of rd., on W. end of steel culvert; chiseled cross 755.11
- 6.5 UE 7 WEK C; T. 75 N., R. 17 W.; near NE. edge of sec. 35 and NW. edge sec. 36; about 300 ft ESE. along road from T-rd. NE., 25 ft N. of center of road, 9 ft E. of center of drive, on E. end concrete pipe culvert; chiseled square 688.63
- 8.0 Leighton, 6.25 mi S. and 1.5 mi E. from; 3 mi S. and 6 mi W. from Oskaloosa; T. 74 N., R. 17 W.; in NE. portion of sec. 1; 21 ft W. of center of rd., about 100 ft SW. of rd. at curve; about 400 ft N. of T-rd. W., on top and near center of W. headwall of culvert; a standard tablet stamped "8 WEK 1967" 681.649
- 8.0 Reference mark; T. 74 N., R. 17 W.; in NE. portion of sec. 1; 139 ft N. and 18 ft W. of T-rd. W.; on top of W. end of a corrugated steel culvert; punched hole 681.05

COAL FIELD QUAD. - 51

- 8.5 UE 8 WEK A; T. 74 N., R. 16 W.; in N. central portion of sec. 6; 11 ft S. of center of road, about 900 ft E. of T-rd. N., on E. end of S. concrete wheel guard of bridge; chiseled square about 0.6 ft higher than center of bridge 686.01
- 9.4 Oskaloosa; about 4 mi S. and 5 mi W. of approx. S $\frac{1}{4}$ between secs. 5 and 6; T. 74 N., R. 16 W.; at NE. cor. of concrete bridge over Des Moines River; standard tablet stamped "4 HK 1966" 693.851

LINE 3

H. Kablesh, 1966; Book CV-2086

COAL FIELD QUAD. - 51

- 11.2 "4 HK 1966" (previously described in line 2) 693.851
- 11.2 Reference mark, 1140 ft S. and 25 ft W. of tablet; chiseled square in SW. abutment of concrete bridge over Des Moines River 702.81
- 12.7 UE 4 B; about 0.4 mi N. and 1.2 mi E. of BM., in NW $\frac{1}{4}$ of sec. 4, T. 74 N., R. 16 W.; at center of N. side of concrete bridge; chiseled square 683.87
- 13.2 Oskaloosa, 4 mi S. and 3 mi W. of; at approx. center of sec. 4, T. 74 N., R. 16 W.; at SW. cor. of concrete bridge over creek; standard tablet stamped "5 HK 1966" 686.018
- 13.2 Reference mark; 21 ft N. and 30 ft E. of tablet; chiseled square at NE. cor. of concrete bridge over creek 685.96
- 13.5 UE 5 A; about 0.26 mi E. of BM; 4 ft S. and 2 ft E. of SE. cor. of building in center of cemetery; chiseled square at SW. cor. of concrete well casing 810.18
- 13.9 UE 5 B; about 0.7 mi E. of BM; at approximate W. center of sec. 3; T. 74 N., R. 16 W.; 65 ft E. and 25 ft N. of T-rd. S., painted square on N. end of culvert and about 7 ft lower than T-rd. S. 789.8
- 14.4 UE 5 C; about 1.2 mi E. along rd. from BM; 0.2 mi S. of T-rd. E., at center between secs. 3 and 34; Ts. 74 and 75 N., R. 16 W.; chiseled square at W. center of concrete culvert 748.26
- 15.4 UE 5 F; about 2.2 mi E. along rd. from BM; in SE $\frac{1}{4}$ sec. 34, T. 75 N., R. 16 W.; chiseled square in NE. cor. of concrete bridge over creek 709.44

LINE 3 (Cont'd)

OSKALOOSA QUAD. - 73

FEET

- 16.3 Oskaloosa, 3 mi S. and 1 mi W. of; in E₄ of sec. 35; T. 75 N., R. 16 W.; 175 ft N. and 27 ft W. of crossroads; 3 ft SE. of power pole; in concrete post; standard tablet stamped "6 HK 1966" 804.114
- 16.3 Reference mark; 200 ft S. and 51 ft E. of BM, at SE. cor. of crossroads, rail spike in telephone pole 811.39
- 17.2 UE 6 C; about 0.9 mi E. of BM; at approximate E. center of sec. 36; T. 55 N., R. 16 W.; 25 ft N. and 25 ft W. of T-rd. N.; chiseled square at W. end of concrete culvert 790.55

COAL FIELD QUAD. - 51

- 17.5 UE 6 D; about 1.3 mi E. of BM; about 2.8 mi S. of Oskaloosa, along Hwy. 137; at approx. center between secs. 31 and 36; T. 75 N., Rs. 15 and 16 W.; copper nail and washer at center of crossroads (Hwy. 137 and E.-W. rd.) 820.60
- 18.2 UE 6 F; about 2.1 mi E. along rd. from BM; at approximate S. center of sec. 31; T. 75 N., R. 15 W.; 30 ft N. and 30 ft W. of T-rd. E., rail spike in telephone pole 828.17
- 19.2 Oskaloosa, 3.25 mi S. and 1.5 mi E. of; at approximate W. center between secs. 5 and 32; Ts. 74 and 75 N., R. 15 W.; 20 ft N. and 230 ft E. of drive N. to house; 1 ft S. and 4 ft W. of board fence corner, in concrete post, standard tablet stamped "7 HK 1966" 834.160
- 19.2 Reference mark; 545 ft W. and 40 ft S. of BM; 20 ft S. of center of rd.; chiseled square at S. end of concrete culvert 828.75
- 20.0 UE 7 A; about 0.8 mi E. and S. of BM; at approximate center of sec. 5; T. 74 N., R. 15 W.; 125 ft N. and 24 ft W. of T-rd. E.; rail spike in guyed power pole 836.23
- 22.1 UE 7 D; about 2.8 mi E. along rd. from BM; at approximate center of sec. 3; T. 74 N., R. 15 W.; 24 ft S. and 100 ft E. of drive S. to house; chiseled square at W. end of concrete culvert 818.48
- 22.4 Oskaloosa; 4 mi E. and 3.75 mi S. of; at approximate E. center of sec. 3; T. 74 N., R. 15 W.; 30 ft S. and 107 ft W. of U.S. Hwy. 63 and E.-W. rd. (crossroads); 1 ft N. and 14 ft W. of gate; 2 ft SW. of a power pole; in concrete post, standard tablet stamped "8 HK 1966" 829.130
- 22.4 Reference mark; 50 ft N. and 92 ft W. of BM; painted square, center of W. end of culvert 827.53
- 24.1 Wright, 1 mi W. of, near cor. secs. 1, 2, 35 and 36; Ts. 74 and 75 N., R. 15 W.; 24 ft N. and 78 ft E. of grade crossing; 2 ft N. of power pole; in concrete post; standard tablet stamped "9 HK 1966" 836.961
- 24.1 Reference mark; 14 ft S. and 40 ft W. of BM; chiseled square in SW. cor. of concrete foundation of old signal 838.15
- 24.7 UE 9 A; about 0.6 mi E. of BM; at approximate E. quarter cor. between secs. 1 and 36, Ts. 74 and 75 N., R. 15 W.; chiseled square at S. center of concrete culvert 827.26
- 25.2 UE 9 C; about 1.1 mi E. of BM; in village of Wright; at Unsicker Memorial School; chiseled square at SW. cor. of first concrete step 845.89
- 25.7 UE 9 D; about 0.5 mi E. of Wright; at approximate quarter cor. secs. 6 and 31; Ts. 74 and 75 N., R. 14 W.; center of E.-W. rd. at field entrance N. 844.0

LINE 3 (Cont'd)

COAL FIELD QUAD. - 51

FEET

26.2 Fremont, 2.7 mi N. and 3.5 mi W. of; 470 ft E. of rd. forks near cor. secs. 5, 6, 31 and 32; Ts. 74 and 75 N., R. 14 W.; 29 ft S. of center of rd., 97 ft E. of fence corner, 1 ft N. of fence, 2 ft SW. of telephone pole; in a concrete post, a standard tablet stamped "TT 30 MT 1955 847" 846.809

LINE 4

D.W. Ephlin, 1964; Book CV-1774

WHAT CHEER QUAD. - 72

15.3 What Cheer, 2.5 mi S. and 7.75 mi W. of; T. 76 N., R. 14 W.; near W. sixteenth cor. between secs. 20 and 29; 38 ft S., 33 ft E. and 2.1 ft lower than T-rd. S.; 3 ft S. of power pole; in the concrete post, a standard tablet stamped "37 DWE 1964" 777.528

15.3 Reference mark; 61 ft E. of tablet; on W. end of a concrete culvert; a chiseled square 772.61

OSKALOOSA QUAD. - 73

16.4 UE 37 DWE B; 1.1 mi S. of tablet, in SW. cor. of church yard; in a power pole; a 60 d spike nail 803.38

17.1 UE 37 DWE D; 1.8 mi S. of tablet; 30 ft N., 28 ft E. and 1.2 ft lower than crossroads; in a power pole; a 60 d spike nail 811.16

18.1 Rose Hill, 0.5 mi N. and 2.5 mi W. of; T. 75 N., R. 14 W.; near NE. cor. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6; 161 ft S., 36 ft W. and 7 ft lower than crossroads; 3 ft E. of fence cor. post; in a concrete post, standard tablet stamped "38 DWE 1964" 730.944

18.1 Reference mark; 184 ft N. of tablet; in a power pole, a 60 d spike nail 741.12

18.9 UE 38 DWE A; 0.8 mi S. of tablet; 31 ft E. of center of gravel rd. at field entrance W., at crest of hill, in a power pole; a 60 d spike nail 798.04

19.5 UE 38 DWE B; 1.3 mi S. of tablet; 50 ft N., 26 ft W. and 7.9 ft lower than T-rd. N.; on the W. end of a concrete culvert; a chiseled square 687.81

20.0 UE 38 DWE C; 1.8 mi S. of tablet, 89 ft S., 29 ft W. and 7.8 ft lower than T-rd. S.; in the NE. end of a metal culvert with flood gate; a punched hole 686.01

20.4 UE 38 DWE D; 2.2 mi S. of tablet; 2 ft S., 38 ft W. and 2.2 ft lower than T-rd. W.; in the N. end of a concrete culvert; a chiseled square 695.11

21.1 UE 38 DWE E; 2.9 mi S. of tablet; 36 ft N., 22 ft W. and 0.5 ft lower than crossroads; in a power pole; a 60 d spike nail 749.25

21.6 Rose Hill, 2.5 mi S. and 3.0 mi W. of; T. 75 N., R. 14 W.; near SW. cor. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, 192 ft N., 28 ft E. and 2.1 ft higher than T-rd. E.; 2 ft W. of a fence; 7 ft S. of a power pole, in a concrete post; a standard tablet stamped "39 DWE 1964" 813.966

21.6 Reference mark; 162 ft S. of tablet; in power pole; a 60 d spike nail 808.21

22.6 UE 39 DWE A; 1 mi S. of tablet; 21 ft N., 27 ft E. and 0.9 ft lower than T-rd. N.; in the N. end of a metal culvert; a punched hole 830.49

23.1 UE 39 DWE B; 1.5 mi S. of tablet; center of E.-W. gravel rd. at T-rd. S.; opposite field rd. N. 838.68

<u>LINE 4 (Cont'd)</u>	<u>OSKALOOSA QUAD. - 73</u>	<u>FEET</u>
23.6 UE 39 DWE C; 2 mi S. of tablet; 55 ft S., 33 ft W. and 1 ft lower than T-rd. S.; in a power pole; a 60 d spike nail		840.71
24.2 UE 39 DWE D; 2.6 mi S. of tablet; 11 ft S., 31 ft E. and 1.1 ft lower than T-drive E. to farmhouse, in a power pole; a 60 d spike nail		846.39

COAL FIELD QUAD. - 51

24.9 "TT 30 MT 1955 847" (previously described in line 3)		846.809
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LINE 5

D.W. Ephlin, 1964; Book CV-1774

MONTEZUMA QUAD. - 96

24.8 Barnes City, 0.5 mi S. and 2 mi W. of; T. 77 N., R. 14 W.; near quarter cor. between secs. 5 and 6; 253 ft S., 31 ft W. and 18.8 ft higher than crossroads; 11 ft S. and 31 ft W. of center of N.-S. gravel rd. at field entrance W.; 3 ft E. of a fence, in a concrete post; a standard tablet stamped "ET 13 DHB 1964"		890.586
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OSKALOOSA QUAD. - 73

25.7 UE 13 DHB A; 0.9 mi S. of tablet, 26 ft S., 26 ft W. and 2.6 ft lower than T-rd. W.; in the S. end of a metal culvert; a punched hole		808.69
26.2 UE 13 DHB B; 1.5 mi S. of tablet; 60 ft S., 20 ft W. and 1.5 ft lower than crossroads; on the W. end of a concrete culvert; a chiseled square		829.69
27.2 Barnes City, 3 mi S. and 2 mi W. of; T. 77 N., R. 14 W.; near cor. secs. 17, 18, 19 and 20; 31 ft N., 26 ft W. and 1.4 ft higher than crossroads; 3 ft E. of a fence; 4 ft SE. of a power pole; in a concrete post; a standard tablet stamped "30 DWE 1964"		854.901
27.2 Reference mark; 82 ft SE. of tablet; on the W. end of a concrete culvert; a chiseled square		851.99
28.2 UE 30 DWE B; 1 mi S. of tablet; 20 ft N., 16 ft E. and 1.5 ft higher than center of N.-S. dirt road at fence lines E.-W.; on the N. end of a concrete culvert; a chiseled square		734.63
29.2 UE 30 DWE C; 1.9 mi S. of tablet; at 90° bend in dirt road, in W. gatepost at fence corner; a 60 d spike nail		739.00
29.9 Barnes City, 5.25 mi S. and 7.25 mi W. of; T. 77 N., R. 14 W.; near center of NE ¹ / ₄ of sec. 31; 56 ft N., 16 ft E. and 0.8 ft lower than T-rd. N.; 2 ft W. of a fence, 4 ft S. of a power pole, in a concrete post; standard tablet stamped "31 DWE 1964"		762.380
29.9 Reference mark; 84 ft S. of tablet, in a power pole; a 60 d spike nail		763.04

WHAT CHEER QUAD. - 72

30.4 UE 31 DWE A; 0.5 mi E. of tablet; 23 ft N., 17 ft W. and 1.8 ft lower than T-rd. S.; in W. end of metal culvert; punched hole		748.15
31.1 UE 31 DWE B; 1.2 mi SE. of tablet; 33 ft S., 39 ft W. and 2.4 ft higher than T-rd. W.; in a power pole; a 60 d spike nail		758.02
32.1 UE 31 DWE D; 2.2 mi S. of tablet, 74 ft N., 30 ft W. and 3 ft higher than T-rd., N.; in a power pole, a 60 d spike nail		811.84

<u>LINE 5 (Cont'd)</u>	<u>WHAT CHEER QUAD. - 72</u>	<u>FEET</u>
32.4 Barnes City, 7 mi S. and 1.75 mi W. of; T. 76 N., R. 14 W.; near quarter cor. between secs. 5 and 8; 52 ft N., 5 ft W. and 1.3 ft higher than T-rd. S.; 7 ft E. of a power pole; in a concrete post; a standard tablet stamped "32 DWE 1964"		789.92
32.4 Reference mark; 192 ft S. of tablet; on the N. end of the W. headwall of a large concrete box culvert; a chiseled square		779.59
33.1 UE 32 DWE A; 0.7 mi S. of tablet; 3.4 ft N., 31 ft E. and 0.6 ft lower than crossroads; in a power pole; a 60 d spike nail		831.84
34.2 UE 32 DWE C; 1.8 mi S. of tablet; 58 ft N., 29 ft E. and 0.1 ft lower than T-rd. SE; in a pole; a 60 d spike nail		787.80
34.5 Rose Hill, 3.7 mi N. and 1.7 mi W. of; T. 76 N., R. 14 W.; approximate 0.2 mi N. of center of sec. 20; 12 ft N., 30 ft E. and 0.2 ft higher than center of N.-S. gravel rd. at field entrance E., 2 ft W. of a fence, 4 ft NW. of a gate post; in a concrete post, standard tablet stamped "ET 12 DHB 1964"		819.688
35.6 "37 DWE 1964" (described in line 4)		777.528

LINE 6

<u>D.W. Ephlin, 1964; Book CV-1774</u>	<u>OSKALOOSA QUAD. - 73</u>	
0.0 "13 DHB B" (previously described in line 5)		829.69
1.0 UE 13 DHB K; 1.5 mi S. and 1 mi W. of tablet; 23 ft S., 116 ft W. and 2.5 ft lower than T-rd. S.; in S. end of a metal culvert; a punched hole		848.56
1.7 Barnes City, 2 mi S. and 3.7 mi W. of; T. 77 N., R. 15 W.; near W. sixteenth cor. between secs. 12 and 13; 68 ft E., 67 ft N. from center of rd. at drain, 4 ft N. of power pole, standard tablet stamped "40 DWE RESET 1965" (Reference mark has been destroyed)		838.16
2.6 UE 40 DWE A; 1 mi W. of tablet; 29 ft N., 4 ft E. and 3 ft lower than T-drive S. to farm-house; in a power pole; a 60 d spike nail		851.54
3.4 UE 40 DWE B; 1.8 mi W. of tablet; 32 ft S., 61 ft E. and 2.5 ft higher than T-rd. E.; in a power pole; a 60 d spike nail		859.54
4.0 UE 40 DWE C; 2.3 mi W. of tablet, 24 ft S., 47 ft E. and 4.9 ft lower than T-rd. E.; in a power pole; a 60 d spike nail		820.41
4.7 New Sharon, 3.5 mi E. of; t. 77 N., R. 15 W.; near S. sixteenth cor. between secs. 15 and 16; 68 ft S., 88 ft W. and 6.3 ft lower than center of Hwy. 63 at field entrance N. and S.; 1 ft N. of fence; 3 ft E. of a power pole; in a concrete post; a standard tablet stamped "41 DWE 1964"		787.579
4.7 Reference mark; 103 ft NE. of tablet; in E. end of a metal culvert; a punched hole		792.09
5.7 UE 41 DWE A; 1 mi W. of tablet; 85 ft N. and 127 ft E. of center of Hwy. 63, at field entrance N.-S.; in a power pole; a 60 d spike nail		752.21
6.6 UE 41 DWE B; 2 mi W. of tablet; 42 ft N., 3 ft E. and 2.5 ft lower than T-rd. S. in a power pole; a 60 d spike nail		862.74
7.6 UE 41 DWE C; 3 mi W. of tablet, 26 ft N. of center of Hwy. 63, in a power pole, a 60 d spike nail		875.73
8.5 New Sharon, at; 375 ft S. of Minneapolis and St. Louis RR. station; at an abandoned water tank, in the center of the SE. concrete footing, 13 ft W. of center of track and about 1 ft lower than rail; a USC&GS standard disk stamped "L 87 1934" and set in top of a concrete post		864.132

LINE 7

FEET

D.W. Ephlin, 1964; Book CV-1774

WHAT CHEER QUAD. - 72

0.0 "37 DWE 1964" (previously described in line 4) 777.528

OSKALOOSA QUAD. - 73

0.6 UE 37 DWE K; 0.6 mi W. of tablet; 19 ft S., 14 ft W. and 1.2 ft lower than crossroads; in the S. end of a metal culvert; a punched hole	766.50
1.3 UE 37 DWE L; 1.3 mi W. of tablet; 33 ft N., 41 ft E. and 0.6 ft higher than center of E.-W. gravel rd. at T-rd. N.; in a power pole; a 60 d spike nail	790.88
2.3 UE 37 DWE M; 2.3 mi NW. of tablet; 21 ft N., 13 ft W. and 0.5 ft lower than T-rd. S.; on the W. end of a concrete culvert; chiseled square	815.30
3.0 Lacey, 1.5 mi S. and 5.3 mi E. of; T. 76 N., R. 15 W.; near W. sixteenth cor. between secs. 13 and 24; 39 ft N., 9 ft E. and 4 ft higher than center of E.-W. gravel rd. at field entrance N; 1 ft S. and 5 ft W. of fence post bearing a standard witness mark sign; in a concrete post; a standard tablet stamped "42 DWE 1964:	787.122
3.0 Reference mark; 153 ft W. of tablet; in a power pole; a 60 d spike nail	783.32
3.8 UE 42 DWE A; 0.8 mi W. of tablet, 72 ft SW., 14 ft SE. and 0.5 ft higher than center of concrete bridge on the SE. end of the SW. headwall; a chiseled square	747.74
4.4 UE 42 DWE B; 1.4 mi NW. of tablet; 35 ft W. of center of gravel rd. at S. point of a 90° bend, in a power pole; a 60 d spike nail	815.10
5.4 UE 42 DWE C; 2.4 mi NW. of tablet; 24 ft E. of center of gravel rd. at 90° bend in a power pole; a 60 d spike nail	773.05
5.9 UE 42 DWE D; 2.9 mi NW. of tablet; 42 ft S., 34 ft W. and 0.4 ft higher than T-rd. W.; in a power pole; a rail spike	814.46
6.6 Lacey, 0.5 mi S. and 2.75 mi E. of; T. 76 N., R. 15 W.; near E. sixteenth cor. between secs. 9 and 16; 31 ft S., 8 ft W. and 1.4 ft higher than T-rd. S.; 4 ft S. of a power pole; in a concrete post; a standard tablet stamped "43 DWE 1964"	779.749
6.6 Reference mark; 178 ft W. of tablet, in a power pole; a rail spike	780.36
7.3 UE 43 DWE A; 0.7 mi NW. of tablet; 103 ft SE., 40 ft SW. and 4 ft lower than T-rd. SE.; in a power pole; a rail spike	804.44
8.3 UE 43 DWE B; 1.6 mi NW. of tablet, 14 ft S., 40 ft E. and 0.7 ft higher than center of concrete bridge; near E. end of the S. curb; a chiseled square	769.71
8.8 UE 43 DWE C; 2.2 mi NW. of tablet; 29 ft S., 29 ft E. and 4.7 ft lower than crossroad; on the S. end of a concrete box culvert; a chiseled square	786.64
9.8 UE 43 DWE D; 3.1 mi NW. of tablet; 25 ft S., 28 ft W. and 1.2 ft lower than T-rd. S.; in a power pole; a rail spike	847.27
10.0 Lacey, at; in the SW. cor. of brick school building and about 3.5 ft above the sidewalk, a USC&GS standard disk stamped "H 87 1934" and set in the top of a concrete post	842.200

per.
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OSKALOOSA QUADRANGLE
73 - IOWA

LINE 8

FEET

M.V. Thompson, 1955: Book CV-694

WHAT CHEER QUAD. - 72

3.5 Reference mark; spike in power pole at T-rd. S., 30 ft N. of center of E.-W. rd., 25 ft W. of chute into cattle pen, 580 ft W. of tablet 837.12

COAL FIELD QUAD. - 51

5.4 "TT 30 MT 1955 847" (previously described in line 3) 846.809

5.4 Reference mark; spike in telephone pole in ditch; 30 ft S. of rd. and 115 ft E. of center of grass triangle at T-rd. E.; 330 ft W. of tablet 843.83

6.5 Fremont, 1.5 mi N. and 3.7 mi W. of; 34 ft N. and 30 ft E. of crossroads, at cor. secs. 5, 6, 7 and 8; T. 74 N., R. 14 W.; 3 ft W. of fence corner, in a concrete post; a standard tablet stamped "17 MAC 1923 RESET 818" 818.186

LINE 9

C.D. Lien, 1975: Book CV-3242

MONTEZUMA QUAD. - 96

1 2 0.0 BM, 1.3 mi SE. along the Minneapolis and St. Louis RR. from the station at MOORE, Poweshiek County, 1½ poles S. of milepost 286, at steel bridge 452 over North Skunk River, in the E. end of the stone pier, and 5.5 ft lower than rail, a standard disk stamped "N 87 1934" 770.113

OSKALOOSA QUAD. - 73

3 1.1 UE 87 A, 1.1 mi S. along state Hwy. 146 from tablet, a copper nail and washer in centerline of crossroads 792.3

6 2.2 UE 87 B, 1.1 mi S. along Highway 146 then 1.1 mi W. along road from tablet, T. 77 N., R. 16 W., near the center of sec. 2, 44 ft. SE. and 26.7 ft SW. of centerline of road, at curve in road N.-E. and at a field approach S., a chiseled square on a concrete culvert 888.40

MONTEZUMA QUAD. - 96

9 3.2 Reference mark, 23 ft N., 19.7 ft E. of centerline road at T-rd. N. and 45 ft N. and 324.7 ft E. of tablet, a punched hole in a metal culvert 879.28

10 3.2 Sully, 5.5 mi S., 8.25 mi E. of, T. 77 N., R. 16 W., near the sixteenth cor. of sec. 3, 22 ft S., 305 ft W. of, and 9.7 ft lower than centerline road at a T-rd. N., cemented in the center of a 12 ft concrete headwall, a standard tablet stamped "1 CDL 1975" 871.200

12 3.9 UE 1 A, 0.7 mi W. along rd. from tablet, T. 77 N., R. 16 W., quarter corner between secs. 3 and 4, 118 ft N., 23.3 ft W. of, and 1.7 ft lower than centerline of crossroads, a punched hole in a metal culvert 877.17

16 5.1 UE 1 B, 1.9 mi W. along road from tablet, T. 77 N., R. 16 W., quarter cor. between secs. 4 and 5, 17 ft S. and 15 ft E. of, and 3.1 ft lower than road at drain and 0.14 mi W. of a T-rd. S., a chiseled square on the SE. corner of a concrete culvert 830.03

18 5.7 Reference mark, 29.5 ft N., 19.7 ft W. of a T-rd. N. and 46 ft N., and 272.2 ft E. of tablet, a punched hole in a metal culvert 865.91

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41-092-31
OSKALOOSA QUADRANGLE
73 - IOWA

LINE 9 (Cont'd)

MONTEZUMA QUAD. - 96

FEET

1 19 5.8 Sully, 5.5 mi S., 5.5 mi E. of, T. 77 N., R. 16 W., quarter corner between secs.
5 and 6, 16.5 ft S., 291.9 ft W. of and 1.4 ft lower than centerline road at T-rd.
S., cemented in the center of a concrete headwall, a standard tablet stamped,
"2 CDL 1975" 866.124

SULLY QUAD. - 97

22 6.5 UE 2 A, 0.7 mi W. along road from tablet, T. 77 N., R. 16 W., near center of sec.
6, 26.2 ft N., 22.9 ft W. of and 1.7 ft lower than centerline road at T-rd. N.,
a chiseled square on a concrete culvert 892.95

25 7.5 UE 2 B, 2 mi W. along road from tablet, T. 77 N., R. 17 W., near the center of
sec. 1, 23 ft S., 9 ft E. of and 2.2 ft lower than Y-rd., a chiseled square on
a concrete culvert 874.92