

OFFICE COPY HOLD

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

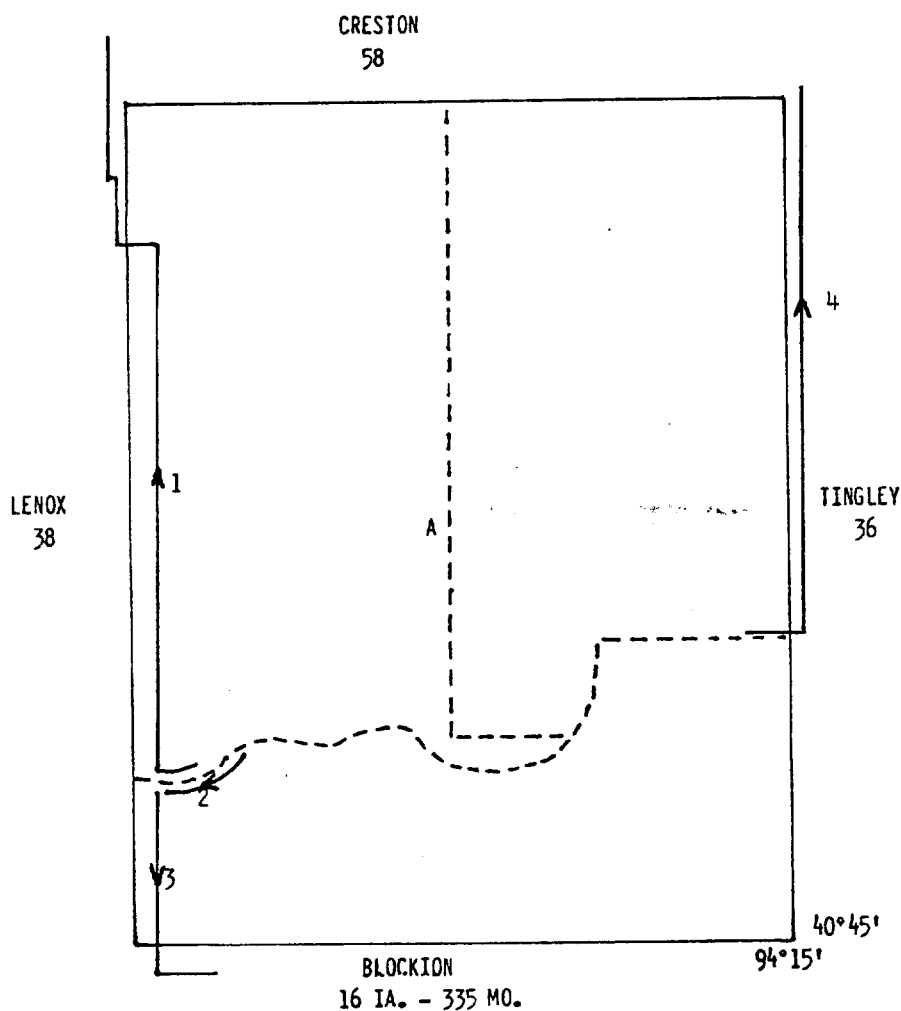
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

40094-14
DIAGONAL QUADRANGLE
37 - Iowa
N4045-W9415/15
DIAGRAM NK 15-10
NEBRASKA CITY

Adams, Taylor and Union, Ringgold Counties

Edition of: 4/17/80

PR: ADP/LB/cb



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

A. quadrangle No. 400941

37 C

LINE 1

FEET

F.W. Krueger, 1977; Book CV-3392

DIAGONAL QUAD. - 37

2	1	0.0	At Clearfield, Taylor County, on the Chicago, Burlington & Quincy R.R., 153 ft SW. of the station at a street crossing, 45 ft NE. of the centerline of the street, 24 ft NW. of the centerline of the track, and level with the track, a standard N.G.S. disk stamped "G 106 1935" and set in top of a concrete post	1259.407
3	0.9		UE G 106 A, 0.9 mi W. from; disk; T. 69 N., R. 32 W., near S. sixteenth cor. between secs. 1 and 2, 400 ft N., 19 ft W. and 6.4 ft lower than T-rd. E., on W. end of a 30-in. E.-W. iron pipe culvert; a punched hole	1254.53
4	1.4		UE G 106 B, 0.5 mi N. and 0.9 mi W. from disk; Ts. 69 and 70 N., R. 32 W., near cor. secs. 1, 2, 35 and 36, W., 19 ft S., 24 ft W. and 1.1 ft lower than crossroads, center of concrete headwall of culvert; a previously established chiseled cross	1263.26
7	2.4		UE G 106 C, 1.5 mi N. and 0.9 mi W. from disk; T. 70 N., R. 32 W., near cor. secs. 25, 26, 35 and 36, 91 ft S., 20 ft W. and 0.5 ft lower than crossroads; center of W. concrete headwall of culvert; center of the number "6" embossed in the concrete "NO 36 U"	1215.10
10	3.4		Reference mark 1, 658 ft S. and 40 ft W. from tablet, T. 70 N., R. 32 W., near cor. secs. 23, 24, 25 and 26, 24 ft N., 27 ft W. and 4.6 ft lower than crossroads, on N. end of a N.-S. 24-in. metal culvert; a punched hole	1224.573
11	3.5		BM, Clearfield, 2.5 mi N. and 0.5 mi W. of; T. 70 N., R. 32 W., about 700 ft N. of cor. secs. 23, 24, 25 and 26, 682 ft N., 13 ft E. and 12.4 ft lower than crossroads; 13 ft E. and 0.6 ft lower than small bridge at drain; 8.6 ft above drain; center of E. concrete headwall of bridge; standard tablet stamped "7 FWK 1977" (countersunk)	1212.257
12	3.5		Reference mark 2, 26 ft W. from tablet; 13 ft W. of small bridge at drain, 0.6 ft lower than road at drain center of W. concrete headwall of bridge; a chiseled cross	1211.212
14	4.4		UE 7 A, 1 mi N. from tablet; T. 70 N., R. 32 W., near cor. secs. 13, 14, 23 and 24; 34 ft N., 20 ft E. and 1 ft lower than crossroad; center of E. concrete headwall of culvert; a chiseled cross	1243.50
16	5.4		UE 7 B, 2 mi N. from tablet; T. 70 N., R. 32 W., near cor. secs. 11, 12, 13 and 14, 20 ft N., 24 ft E. and 1 ft lower than crossroads; center of N. concrete headwall of culvert; previously set cross	1239.08
18	6.4		UE 7 C, 3 mi N. from tablet, T. 70 N., R. 32 W., near cor. secs. 1, 2, 11 and 12, 21 ft N. 26 ft W. and 5.2 ft lower than crossroads, on N. end of a 50-in. N.-S. concrete culvert; a chiseled square	1253.83
21	7.1		Reference mark, 50 ft S. and 26 ft E. of tablet, 27 ft S., 14 ft E. and 1.4 ft higher than centerline road at bridge NW.-SE., 2 ft N. of the S. end of E. concrete rail of bridge a chiseled square	1206.34

LINE 1 (Cont'd)

DIAGONAL QUAD. - 37

FEET

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| 2 22 | 7.1 | BM, Clearfield, 6 mi N. and 0.5 mi W. of; T. 70 N., R. 32 W., near quarter cor. between secs. 1 and 2; 23 ft N., 12 ft W. and 1.2 ft higher than road at bridge NW-SE.; 12 ft W. of centerline road; center of W. concrete rail of bridge; 6.6 ft above drain; standard tablet stamped "8 FWK 1977" | 1206.175 |
| 24 | 7.4 | UE 8 A, 0.5 mi N. from tablet; Is. 70 and 71 N., R. 32 W., near cor. secs. 1, 2, 35 and 36, 12 ft N., 25 ft E. and 2 ft lower than T-rd. W.; on S. end of a 12-in. concrete N.-S. culvert under drive E.; a chiseled square | 1264.96 |
| 27 | 8.4 | UE 8 B, 1.5 mi N. from tablet, T. 71 N., R. 32 W., near cor. secs. 25, 26, 35 and 36; 20 ft N., 26 ft W. and 3.3 ft lower than T-rd. W.; on N. end of a N.-S. 24-in. concrete culvert; a chiseled square | 1233.83 |
| 30 | 9.4 | UE 8 C, 2.5 mi N. from tablet; T. 71 N., R. 32 W., near cor. secs. 23, 24, 25 and 26, 82 ft S. and 9 ft E. of T-rd. W., 40 ft N., 9 ft E. and 1.5 ft higher than N.-S. road at R.R. 5.6 ft higher than drain; 9 ft E. of wooden bridge at drain; center of E. curb of bridge; top of white painted bolt | 1176.86 |
| 34 | 10.5 | Reference mark, 24 ft S. and 68 ft W. from tablet; 12 ft S. and 68 ft W. and 0.8 ft higher than bridge at W. Platte River; at W. end of the S. concrete curb of bridge; a chiseled square | 1177.26 |
| 35 | 10.5 | BM, Clearfield, 10 mi N. and 0.5 mi W. of; T. 71 N., R. 32 W., 506 ft E. of cor. secs. 13, 14, 23 and 24, 12 ft N., 50.6 ft E. and 4.6 ft higher than T-rd. S., 12 ft N. of bridge at W. Platte River; 0.9 ft higher than bridge; 18.6 ft above drain; center of N. concrete curb of bridge; standard tablet stamped "9 FWK 1977" (countersunk) | 1177.312 |
| 38 | 11.7 | UE 9 A, 1 mi N. from tablet; T. 71 N., R. 32 W., near cor. secs. 11, 12, 13 and 14, 27 ft N., 50 ft E. and 1.6 ft lower than T-rd. S., 22 ft E. of centerline entrance; on E. end of a E.-W. 24-in. concrete culvert; a chiseled square | 1177.75 |
| 39 | 11.8 | UE 9 B, 1 mi N. and 0.1 mi W. from tablet; T. 71 N., R. 32 W., about 500 ft W. of cor. secs. 11, 12, 13 and 14, 480 ft W. and 1.7 ft lower than T-rd. S., 13.5 ft above West Platte River, center of concrete deck bridge; chiseled square | 1177.70 |

LENOX QUAD. - 38

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| 41 | 12.2 | UE 9 C, 1 mi N. and 0.5 mi W. from tablet; T. 71 N., R. 32 W. near quarter cor. between secs. 11 and 14, 26 ft N., 15 ft E. and 1.2 ft lower than T-rd. N.; on E. end of a 24-in. E.-W. concrete culvert; a chiseled square | 1227.65 |
| 43 | 13.3 | UE 9 D, 2 mi N. and 0.5 mi W. of; T. 71 N., R. 32 W. near quarter cor. between secs. 2 and 11, 34 ft S., 22 ft W. and 1.9 ft lower than T-rd. W.; about 6-in. E. of a guy pole; top of 0.5-in. copper coated rod projecting about 3-in. | 1244.31 |

LINE 1 (Cont'd)

LENOX QUAD. - 38

FEET

- 2 45 13.8 UE⁹/E, 2.5 mi N. and 0.5 mi W. from tablet; T. 71 N., R. 32 W., near center of secs. 2, 38 ft S., 80 ft E. and 3.9 ft lower than centerline of U.S. Hwy. 34 at T-rd. S., on E. concrete flare of E.-W. culvert; a chiseled square 1215.17
- 47 14.3 Reference mark, 10 ft N., 77 ft E. from tablet, 37 ft N., 26 ft W. and 1.4 ft lower than centerline of U.S. Hwy. 34 at T-rd. N., on W. end of a 24-in. E.-W. concrete culvert; a chiseled square 1212.55
- 48 14.3 BM, Clearfield, 12 mi N. and 1.5 mi W. of; T. 71 N., R. 32 W., near quarter cor. between secs. 2 and 3, 27 ft N., 103 ft W. and 2.8 ft lower than U.S. Hwy. 34, at T-rd. N.; center of N. concrete headwall of culvert; standard tablet stamped "10 FWK 1977" (countersunk) 1211.096
- 50 14.9 UE 10 A, 0.5 mi N. from tablet, T. 71 and 72 N., R. 32 W., near cor. secs. 2, 3, 34 and 35, 87 ft S., 17 ft E. and 4.4 ft lower than N.-S. road at double fenced lane W.; 8 ft above drain W.; on SE. end of a SE.-NW. 30-in. concrete culvert; a chiseled square 1210.57

PRESCOTT QUAD. - 59 NEBR.

- 53 15.9 UE 10 B, 1.5 mi N. from tablet, T. 72 N., R. 32 W., near cor. secs. 26, 27, 34 and 35, 19 ft N., 29 ft E. and 3 ft lower than crossroads; on N. end of an 18-in. N.-S. culvert, a punched hole 1224.76
- 56 17.0 UE 10 C, 2 mi N. from tablet, T. 72 N., R. 32 W., near cor. secs. 22, 23, 26 and 27, 20 ft S., 24 ft W. and 3 ft lower than crossroad; on S. end of a 24-in. N.-S. concrete culvert; a chiseled square 1237.50
- 59 18.2 Reference mark, 71 ft N. and 39 ft E. of tablet, 176 ft N., 25 ft W. and 2.2 ft lower than crossroads, on N. end of a N.-S. 18-in. iron pipe culvert under entrance; a punched hole 1288.74
- 60 18.2 BM, Clearfield, 16 mi N. and 1.5 mi W. of; T. 72 N., R. 32 W., near cor. secs. 22, 23, 14 and 15, 105 ft N., 74 ft W. and 0.6 ft lower than crossroads, 8 ft N. and 15 ft W. of a cedar tree; at the W. end of a sidewalk; center of bottom step; standard tablet stamped "11 FWK 1977" (countersunk) 1290.322
- 61 19.0 UE 11 A, 0.8 mi N. from tablet; T. 72 N., R. 32 W., near N. sixteenth cor. between secs. 14, 15, 85 ft N. and 0.7 ft lower than overpass at R.R.; 27 ft above R.R., 11 ft E. centerline of road at N. end of overpass; in the E. end of N. wooden headwall of overpass; top of 1-in. flat head of tie bolt; a chiseled cross 1291.69
- 62 19.1 BM, Prescott, 1.3 mi N. and 5 mi E. of; T. 72 N., R. 32 W., near N. sixteenth cor. between secs. 14 and 15, 23 ft S. and 6 ft E. of overpass at R.R.; 26.6 ft lower than overpass; 23 ft S. of R.R., 4.2 ft higher than rail, in NE. corner of 3 ft x 3 ft concrete base of overpass; standard USC&GS disk stamped "G 109 1935" 1265.762

LINE 2

FEET

J. Geurin, 1977; Book CV-3394

DIAGONAL QUAD. - 37 IA.

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| 2 | 2 | 0.0 BM, 1.4 mi E. along the Chicago, Burlington & Quincy R.R. from the station at Clearfield. In Ringgold County, Grant Township, Iowa, 436.85 ft S. and 38 ft E. of the NW. cor. sec. 5, Township 69 N., R. 31 W. of the 5th P.M., and set in the top of concrete post. (The R.R. mentioned in the description of the original mark has been abandoned and no longer exists.) | 1246.638 |
| 2 | 0.6 | UE E 106 A, about 0.6 mi W. of BM along E.-W. road at E. entrance to cemetery, 32 ft S. of center of road near center of bottom step of entrance way, chiseled square | 1207.68 |
| 4 | 1.9 | At Clearfield, Taylor County, on the Chicago, Burlington & Quincy R.R., 153 ft SW. of the station, at a street crossing, 45 ft NE. of the centerline of the street, 24 ft NW. of the centerline of the track, and level with the track, a standard USC&GS disk stamped "G 106 1935" and set in the top of a concrete post. | 1259.407 |

LINE 3

J. Geurin, 1977; Book CV-3394

DIAGONAL QUAD. - 37 IA.

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| 2 | 5 | 1.9 G 106 1935 (Described in Line 2) | 1259.407 |
| 5 | 2.2 | UE G 106 AA, about 0.3 mi S., SW. of BM, at entrance to Clearfield High School, 49 ft S. of centerline street, on NW. cor. of base of civil war monument; chiseled square | 1259.65 |
| 7 | 3.4 | UE G 106 BB, about 0.6 mi W. and 0.5 mi S. of High School in Clearfield at small drain crossing, 1.2 ft higher, 11.2 ft W. of centerline of bridge, near center of W. wheelguard; chiseled square | 1228.82 |
| 9 | 4.8 | Reference mark, 21.2 ft E. of BM, on top and near center of E. wheel guard; chiseled square | 1232.38 |
| 10 | 4.8 | BM, Clearfield, about 0.6 mi W. and 2 mi S. of near cor. secs. 13, 14, 23 and 24, T. 69 N., R. 68 W., at small dr. crossing, 335 ft N. of crossroads, 10.6 ft W. and 1.5 ft higher than center of of bridge (mark is set near S. end of W. wheelguard in drill hole, stamped "10 GEU 1977") | 1232.343 |
| 12 | 5.9 | UE 10 A, about 1 mi S. of BM at crossroads 20 ft S. and 26.5 ft W. of center of crossroads, on S. end of concrete culvert; headwall; chiseled square | 1249.64 |

BLOCKTON QUAD. - 16 IA., 335 - MO.

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|----|-----|--|----------|
| 14 | 6.9 | Reference mark, 45.7 ft W. of BM, 27 ft N. and 27 ft W. of center of crossroads; in W. end of round concrete culvert; chiseled square | 1217.21 |
| 15 | 6.9 | BM, 0.6 mi W. and 4 mi S. of Clearfield High School, at cor. secs. 25, 26, 35 and 36, T. 69 N., R. 32 W., 28.3 N. and 17.7 ft E. of center of crossroads | 1221.691 |

LINE 4

FEET

R.R. Barrett, 1978; Book CV-3435

DIAGONAL QUAD. - 37 IA.

1	4	0.0 BM, 6.3 mi NE. along the Mount Ayr Road (county road C) from the water tower at Diagonal, Ringgold County, at the foot of two steep hills, at a 6 by 6 ft box culvert, in the center of the top of the S. headwall, 18 ft S. of the centerline of the road and level with the road, a standard USC&GS disk stamped "Z 104 1935"	1160.808
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TINGLEY QUAD. - 36 IA.

6	0.2	UE Z 104 A, 0.2 mi E. of BM, 20 ft N., 28 ft E. and 2.8 ft lower than crossroad, in N. end of concrete culvert; chiseled square	1201.41
8	1.0	Centerline bridge	1146.2
10	1.3	UE Z 104 B, 0.2 mi E., 1 mi N. of BM, 22 ft N., 265 ft E. of T-rd. E., on N. end of 6 ft corrugated metal culvert; chiseled cross	1160.74
13	2.3	UE Z 104 C, 0.2 mi E., 2 mi N. of BM, 15 ft N., 19 ft E. of road at drive E., (drive E. is at E.-W. fence which is section corner;) on N. end of corrugated metal culvert; a chiseled +, 2.2 ft lower than road at drive	1256.41
15	2.8	Reference mark, 41.5 ft SSW. from BM, 18.5 ft S., 25 ft W. from T-rd. W., on S. end of concrete culvert; a chiseled square	1262.31
16	2.8	BM, Tingley, 2.5 mi W. and 1.5 mi N. of, at the quarter corner between secs. 7 and 12, T. 70 N., R. 29 W., R. 30 W., 22.5 ft N. and 16 ft W. of T-rd. W., 9.8 ft S. and 18.8 ft E. of right-of-way fence corner and witness sign, a standard tablet welded to 10 ft of copper weld rod, protected by a 5-in. drain tile set 0.2 ft below the ground and stamped "ET 8 JWO 1975"	1263.884
18	3.3	UE 8 A, 0.5 mi N. of tablet, 25.5 ft N., 22 ft W. and 3.7 ft lower than crossroad, on W. end of corrugated metal culvert; a chiseled +	1249.88
20	3.9	Bridge	1164.8
22	4.3	UE 8 B, 1.5 mi N. of tablet, 27 ft N., 49 ft W. and 1.6 ft lower than crossroad, on N. end of concrete culvert; a chiseled square	1182.58
26	5.3	Reference mark, 60 ft N., 33 ft E. and 3.4 ft lower than T-rd. W., 1 ft W. of right-of-way fence, 36 ft N. of BM, top of a steel fence post, projecting 1 ft above ground level	1229.89
27	5.3	BM, Tingley, 2.5 mi W. and 4 mi N. of; 1 mi E. and 1 mi N. of Shannon City, near cor. secs. 25, 30, 31 and 36, T. 71 N., R. 29 W.; 96 ft N., 33 ft E. of T-rd. W.; 1.5 ft W. of right-of-way fence, 1 ft W. of witness sign, a standard tablet welded on 10 ft of copperweld rod, protected by a 5-in. drain tile, set ground level and stamped "1 RRB 1978"	1228.637
30	5.8	Centerline bridge	1151.4
31	5.8	UE 1 A, 0.5 mi N. of tablet; 16 ft S., 12 ft E. and 0.1 ft higher than centerline bridge, in 12-in. wooden pier, top of rail spike, driven vertically	1151.46
33	6.4	UE 1 B, 1 mi N. of tablet; 3 ft N., 13 ft E. and 0.5 ft lower than T-rd. W.; 17 ft W. of fence corner, about 9-in. S. of the N. end of a corrugated metal culvert under a field entrance E.; top of bolt	1213.40
37	7.4	UE 1 C, 2 mi N. of tablet, 83 ft N., 25 ft W. and 5.5 ft lower than T-rd. W., on W. end of 66-in. corrugated metal culvert; punched hole	1189.86

LINE 4 (Cont'd)

TINGLEY QUAD. - 36 IA.

FEET

1 39	7.9	Reference mark, 14 ft N., 145 ft E. and 5.4 ft lower than T-rd. E., on N. end of a corrugated metal culvert; punched hole	1243.60
41	7.9	BM, Shannon City, 1 mi E. and 3.5 mi N. from, 1 mi W. of Arispe, at quarter cor. between secs. 13 and 18, T. 71 N., R. 29 W., 62 ft N., 38 ft E. and 2.6 ft higher than T-rd. E., 11.5 ft S., 38 ft E. of centerline of road at entrance W.; on top of a small "mound" in island formed by Co. Hwy. H 45 (N.&E.) and graveled road S., 1 ft W. of witness sign, a standard tablet welded on 10 ft of copper-weld rod, protected by a 5-in. drain tile, set ground level and stamped "2 RRB 1978"	1251.600
43	8.6	Centerline bridge	1185.4
44	8.6	UE 2 A, 0.7 mi N. of tablet, at a small bridge, 14 ft S., 10 ft W. and 3.1 ft lower than centerline bridge, on concrete abutment; chiseled square	1182.35
47	9.4	Bridge	1197.9
48	9.4	UE 2 B, about 1.5 mi N. of tablet; about 200 ft N. of crossroad, at a bridge, 10 ft W. and 2.1 ft lower than centerline bridge, 2.7 ft E. of the W. end of a steel beam; painted square	1195.84
51	10.2	Reference mark, 58 ft N., 79 ft W. of BM, 5 ft S., 25 ft W. of centerline road at field entrance W., 1.5 ft S., 1 ft E. of fence post at S. end of a wire gate, top of a steel fence post; painted white and projecting 6-in.	1269.62
52	10.3	BM, Arispe, 1 mi W. and 2.5 mi N. from, about 800 ft S. of cor. secs. 1, 6, 31 and 36, T. 71 N., R. 29 W., at crest of hill, 12 ft S., 34 ft E. and 1.5 ft higher than road at field entrance E.) 1.5 ft S., 1.5 ft W. of fence post at S. end of wire gate, 1 ft W. of witness sign, a standard tablet welded on 10-in. copper-weld rod, protected by a 5-in. drain tile, set ground level, stamped "3 RRB 1978"	1270.697
56	10.8	UE 3 A, 0.6 mi N. of tablet; at a small bridge, 5.5 ft N., 14.5 ft E. and 0.8 ft higher than centerline of bridge, at the NE. end of the NE. wooden wingwall, in top of a round wooden piling, driven vertically; a rail spike	1201.28

AFTON QUAD. - 57 IA.

59	11.4	UE 3 B, about 1.1 mi N. of tablet; 38 ft S., 16 ft E. and 2.4 ft lower than T-rd. W. (pvt. drive E.) on E. end of an 8-in. corrugated metal culvert; a punched hole	1269.58
62	12.8	Afton, 1.5 mi S. and 1.5 mi W. from; near quarter cor. secs. 29 and 30; T. 72 N., R. 29 W., 39 ft S. and 822 ft W. from road at T-rd. S., at crest of hill, 120 ft E. of T-fence N., 24 ft E. of metal gate, in concrete post; standard tablet stamped "17 RDS 1950" (RESET 1978 by R.R.B.)	1217.948