

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

Final Adjustment of 1972

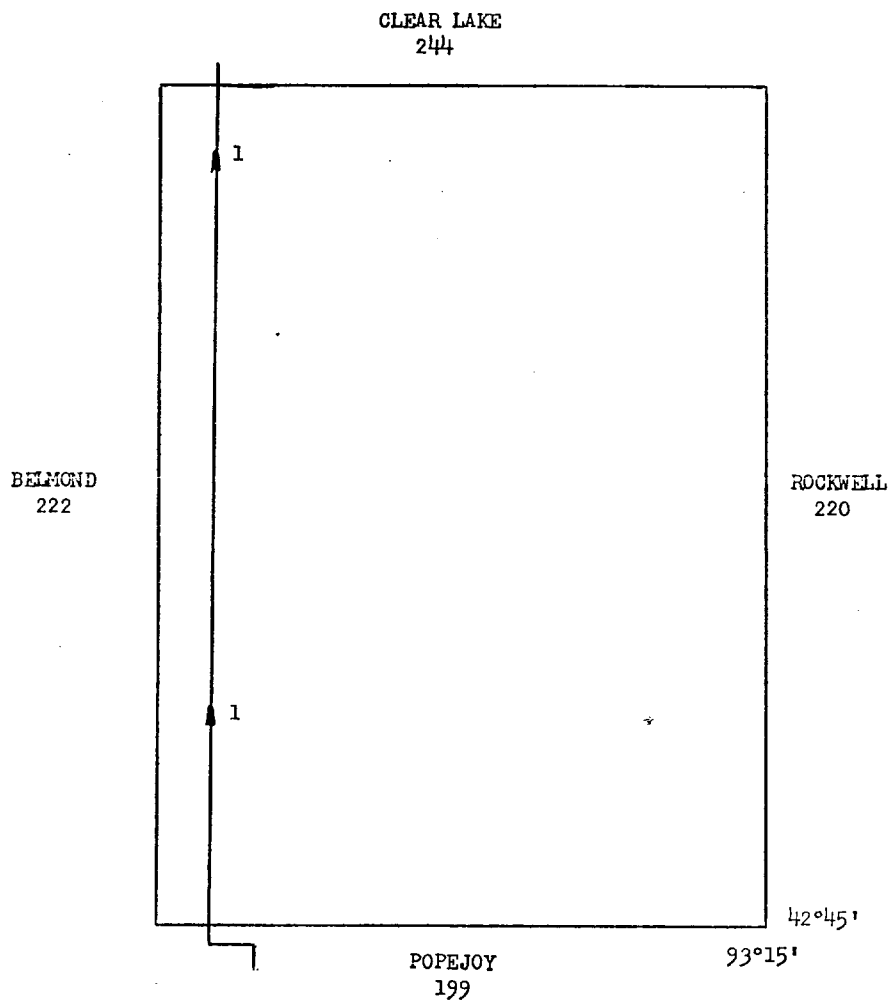
Cerro, Gordo and Franklin
Counties

Edition of: 1-9-73

PR: AKH/cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SWALEDALE QUADRANGLE
221 - IOWA
N4245-W9315/15
DIAGRAM nk 15-5
WATERLOO



221-B

LINE 1

FEET

G. Sandul, 1972; Book CV-2850

POPEJOY QUAD. - 198

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|------------------------------|-----|--|--|----------|
| 4 | 1 | 0.0 | Coulter, 4.4 mi W. along the Chicago Great Western RR. from the station at, near quarter cor. between secs. 32 and 33, T. 92 N., R. 22 W., 117 ft E. along RR. from centerline of N.-S. gravel rd. grade crossing, 52.4 ft N. of the N. rail, 85 ft E. of a right-of-way fence corner, 2.0 ft S. of fence, and 0.4 ft S. of white witness sign, set on the top of concrete post flush with ground, a standard disk stamped "V 28 1934" | 1250.713 |
| 1 | 0.5 | UE V 28 A, 0.5 mi N. of BM along gravel rd., near cor. secs. 28, 29, 32 and 33, T. 92 N., R. 22 W., 14 ft N. and 62 ft W. of centerline of crossroads, (E.-W. State Hwy. 9), on top in center of N. guard rail of concrete box culvert, a chiseled square; painted "UE" | 1249.07 | |
| 2 | 1.5 | Rowan No. 2 1938, 126.1 ft SE. of triangulation station, 16.5 ft SW. of SW. edge of storage bin (round metal), 2.7 ft NE. of 12-in. tree and 4.8 ft SE. of white snow fence, top of concrete post projecting 5-in., a standard disk stamped "ROWAN NO. 2 1938" | 1278.455 | |
| 3 | 1.5 | Rowan No. 1 1938, 65.8 ft NE. of triangulation station, 83.8 ft E. along fence from hedge S. and power pole, 0.6 ft S. of fence, top of concrete post projecting 3-in., a standard disk stamped "ROWAN NO. 1 1938" | 1281.374 | |
| 4 | 1.5 | Rowan 1938 Triangulation station. Alexander, 4.0 mi S. of, about 0.15 mi NE. of SW. cor. of sec. 29, T. 92 N., R. 22 W., 208 ft NW. of NW. corner of large white house, 42.8 ft S. and 30.0 ft E. of E.-W. fence at hedge S. and power pole at NW. corner of yard, 19.0 ft NW. of 36-in. maple tree, top of concrete post, a standard disk stamped "ROWAN 1938" Note: Projecting 4-in. | 1281.680 | |
| <u>SWALEDALE QUAD. - 221</u> | | | | |
| 5 | 2.4 | UE Rowan A, 0.8 mi N. of station along State Hwy. 107, near corner secs. 19, 20, 29 and 30, T. 92 N., R. 22 W., about 700 ft S. of T-rd. E., 23 ft normal and on E. side of centerline of hwy., in top in center of E. headwall of concrete box culvert, a brass bolt stamped "I.H.C. BM", painted "UE" | 1240.03 | |
| 6 | 3.5 | UE Rowan B, 1.9 mi N. of BM, along State Hwy. 107, cor. secs. 17, 18, 19 and 20, T. 92 N., R. 22 W., centerline of crossroads, top of RR. spike | 1262.10 | |
| 7 | 4.1 | Alexander, 1.4 mi S. of, about 700 ft N. of E.-W. fence at quarter cor. between secs. 17 and 18, T. 92 N., R. 22 W., on State Hwy. 107, 23 ft normal and on E. side of centerline of hwy., set on top in center of E. headwall of 7 ft concrete box culvert, a standard tablet stamped "34 SAN 1972", painted "BM" | 1249.622 | |
| 8 | 4.2 | Reference mark, 46.5 ft W. of BM, 23 ft normal and on W. side of centerline of hwy., set in center on top of W. headwall of concrete box culvert, a brass bolt and washer stamped "I.H.C. BM"; painted "RM" | 1249.65 | |
| 9 | 4.6 | UE 34 A, 0.5 mi N. of BM along State Hwy. 107, about 575 ft N. of crossroads, at cor. secs. 7, 8, 17 and 18, T. 92 N., R. 22 W., 23 ft normal and on E. side of centerline of hwy., in center on top of E. headwall of a 8 ft concrete box culvert, a brass bolt stamped "I.H.C. BM" | 1243.37 | |

LINE 1 (Cont'd)

SWALEDALE QUAD. - 221

FEET

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| 4 | 10 | 5.5 | UE 34 B, at Alexander, near cor. secs. 5, 6, 7 and 8, T. 92 N., R. 22 W., 78 ft N. and 50 ft W. of centerline of crossroads, on SW. corner of tennis court, a chiseled square | 1253.23 |
| 11 | | 6.6 | UE 34 C, 2.45 mi N. of BM, cor. secs. 5, 6, 31 and 32, Tps. 92 and 93 N., R. 22 W., in centerline of crossroads, (N.-S. State Hwy. 107), top of RR. spike | 1249.52 |
| 12 | | 7.2 | Alexander, 1.75 mi N. of along State Hwy. 107 near N. sixteenth cor. between secs. 31, and 32, T. 93 N., R. 22 W., at 22 ft concrete box culvert; 22 ft normal and on W. side of centerline of hwy., 4.5 ft above drain, set in the top of N. end of W. concrete headwall, a standard tablet stamped "35 SAN 1972" Note: 550 ft N. of hwy. at E.-W. fence quarter cor. | 1247.320 |
| 13 | | 7.4 | Reference mark, about 675 ft NE. of BM, 60 ft normal and on E. side of centerline of hwy. at fence E., on top in center of L-shaped concrete wall fence corner about 3.5 ft high, a chiseled square. NOTE: Middle of square chiseled away when established | 1251.24 |
| 14 | | 8.6 | UE 35 A, 1.4 mi N. of BM along State Hwy. 107, near cor. secs. 19, 20, 29 and 30, T. 93 N., R. 22 W., 16 ft N. and 41 ft W. of centerline of crossroads, on N. end of concrete pipe culvert, a chiseled square, painted "UE" | 1256.52 |
| 15 | | 9.7 | UE 35 B, 2.4 mi N. of BM along State Hwy. 107, near cor. secs. 17, 18, 19 and 20, T. 93 N., R. 22 W., 44 ft N. and 57 ft E. of centerline of crossroads, (County Hwy. U West) in base on W. side of power pole, a RR. spike, painted "UE" | 1274.30 |
| 16 | 10.2 | | Alexander, 4.5 mi N. of along State Hwy. 107, 2.75 mi S. along State Hwy. 107 from Meservy, near quarter cor. between secs. 17, and 18, T. 93 N., R. 22 W., 59 ft normal and on W. side of centerline of hwy., 31.4 ft N. of T-fence W., 1.1 ft E. of right-of-way fence and opposite fence post with witness tag, 0.9 ft N. of white witness sign, set on top of a 10 ft copper coated steel rod, a standard tablet stamped "36 SAN 1972" | 1266.744 |
| 17 | 10.4 | | Reference mark, about 1100 ft NNE. of BM and across hwy., 123 ft S. and 29 ft E. of centerline of hwy. at drive W., on E. end of concrete pipe culvert, a chiseled square, painted "RM" | 1265.86 |
| 18 | 11.5 | | UE 36 A, 1.35 mi N. of BM along State Hwy. 107, near cor. secs. 5, 6, 7 and 8, T. 93 N., R. 22 W., about 740 ft S. and 23 ft W. of centerline of crossroads, on top in center of W. headwall of 4 ft concrete box culvert, a brass bolt and washer, stamped "I.H.C. BM"; painted "UE" | 1274.59 |
| 19 | 12.5 | | UE 36 B, 2.3 mi N. of BM along State Hwy. 107, near N. sixteenth cor. between secs. 5, and 6, T. 93 N., R. 22 W., 21 ft normal and on E. side of centerline of hwy., on top in center of E. headwall of 5 ft concrete box culvert, a brass bolt and washer, stamped "I.H.C. BM", painted "UE" | 1260.48 |
| 20 | 12.9 | | At South edge of Meservy, on State Hwy. 107, about 610 ft N. along hwy. from centerline of crossroads, at S. common corner secs. 31 and 32, T. 94 N., R. 22 W., 27 ft normal and on W. side of centerline of hwy., 38 ft SE. of fence corner, set on top of S. end of W. headwall of 9 ft concrete box culvert, a standard tablet stamped "37 SAN 1972" | 1245.735 |
| 21 | 12.9 | | Reference mark, 59 ft E. of BM, 32 ft normal and on E. side of centerline of hwy., on E. edge in center of E. headwall (sidewalk) of 9 ft concrete box culvert, a chiseled square, painted "RM" | 1246.17 |
| 22 | 13.8 | | UE 37 A, 0.9 mi N. of BM along State Hwy. 107, near cor. secs. 29, 30, 31 and 32, T. 94 N., R. 22 W., 41 ft N. and 58 ft E. of centerline of crossroads (County Hwy. E. West), in base on W. side of power pole, a RR. spike; painted "UE" | 1261.174 |

LINE 1 (Cont'd)

SWALEDALE QUAD. - 221

FEET

4	23	14.8	UE 37 B, 1.9 mi N. of BM along State Hwy. 107, at junction of County Hwy. S 14 and where hwy. 107 curves E., near cor. secs. 10, 20, 29 and 30, T. 94 N., R. 22 W., 20 ft S. and 43 ft W. of centerline of crossroads, on S. end of corrugated steel culvert, top of stove bolt, painted "UE"	1233.55
24	15.6		Meservey, 2.5 mi N. of, on County Hwy. "S 14", near N. sixteenth cor. between secs. 19 and 20, T. 94 N., R. 22 W., at S. one of two box culverts, (N. one wooden and S. one concrete), 17 ft normal and on E. side of centerline of hwy., 6.0 ft above drain, set on the top in center of E. headwall of 6 ft box culvert, a standard tablet stamped "38 SAN 1972"	1227.094
25	15.6		Reference mark, 34 ft W. of BM, 17 ft normal and on W. side of hwy., on top in center of W. headwall of box culvert, a chiseled square painted "RM"	1227.08
26	16.8		UE 38 A, 1.2 mi N. of BM along County Hwy. "S 14", near cor. secs. 7, 8, 17 and 18, T. 94 N., R. 22 W., 118 ft S. and 27 ft W. of centerline of crossroads, on W. end of corrugated steel culvert, top of stove bolt, painted "UE"	1230.38
27	17.6		UE 38 B, 2.0 mi N. of BM, along County Hwy. "S 14", about 1220 ft S. of cor. secs. 5, 6, 7 and 8, T. 94 N., R. 22 W., 21 ft normal and on W. side of centerline of hwy., 6.5 ft above drain, in center of W. headwall of wooden box culvert, a copper nail and washer; painted "UE"	1213.71
28	18.4		Meservey, 5.25 mi N. of along County Hwy. "S 14", 207 ft N. along hwy. from hwy. at fence E. at quarter cor. between secs. 5 and 6, T. 94 N., R. 22 W., 53 ft normal and on W. side of hwy., 98 ft E. of SE. corner of house (E. wood), 10 ft normal on N. side of centerline of driveway, 9.5 ft W. of fence corner and 0.8 ft S. of fence and opposite fence post with witness tag, on top of 9 ft copper coated steel rod, standard tablet stamped "39 SAN 1972"	1275.532
29	18.4		Reference mark, 440 ft N. of BM, 26 ft normal and W. side of centerline of hwy., on W. end corrugated steel culvert, top of stove bolt, painted "RM"	1264.67
30	18.8		UE 39 A, 0.5 mi N. of BM, along County Hwy. "S 14", cor. secs. 5, 6, 31 and 32, Tps. 94 and 95 N., R. 22 W., in centerline of hwy. at T-rd. W., top of galvanized nail	1273.9
<u>CLEAR LAKE QUAD. - 244</u>				
31	19.8		UE 39 B, 1.5 mi N. of BM along County Hwy. "S 14", near cor. secs. 29, 30, 31 and 32, 61 ft N. and 46 ft E. of centerline of crossroads (E.-W. County Hwy. "B 55", in base on W. side of corner fence post, a RR. spike, painted "UE"	1271.93
32	20.8		UE 39 C, 2.5 mi N. of BM along County Hwy. "S 14", near cor. secs. 19, 20, 29 and 30, T. 95 N., R. 22 W., 42 ft N. and 45 ft W. of centerline of hwy. at fence W. (E.-W. fences offset), in base on E. side of first wooden fence post N. of corner, a RR. spike; painted "UE"	1256.03