Volume

#

R0551

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

*Of the* ..... *Meridian,*

*In the State of* .....

EXECUTED BY

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*Under special instructions dated* ....., *19*....., *which provided for the surveys included under Group No.* ....., *approved* ..... *and assignment instructions dated* ....., *19*.....

*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

# INDEX DIAGRAM

*Township* 36 SOUTH, *Range* 16 EAST

| | | | | | | |
|---|---|---|---|---|---|---|
| 24 | 6 | 5 | 4 | 3 | 2 | 1 |
| 23 | 7 | 8 | 9 | 10 | 11 | 12 |
| 23 | 18 | 17 | 16 | 15 | 14 | 13 |
| 22 | 19 | 20 | 21 | 22 | 23 | 24 |
| 21 | 30 | 29 26 | 28 | 27 | 26 | 25 28 |
| 20 | 31 25 | 32 25 | 33 | 34 | 35 27 | 36 |

GPO 866119

UNITED STATES
DEPARTMENT OF THE INTERIOR
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# INDEX DIAGRAM

*Township* 37 SOUTH, *Range* 15 EAST

| | | | | | |
|---|---|---|---|---|---|
| 39<br>6 | 38<br>5 | 37<br>4 46 | 36<br>3 47 | 35<br>2 46 48 | 34<br>1 |
| 7 | 8 | 9 45 50 | 10 | 11 | 12 |
| 18 | 17 50 | 16 44 49 | 15 | 14 | 13 |
| 19 | 20 | 21 43 | 22 | 23 | 24 |
| 30 | 29 53 | 28 42 52 | 27 | 26 | 25 40 |
| 31 52 | 32 51 | 33 41 | 34 | 35 39 | 36 |

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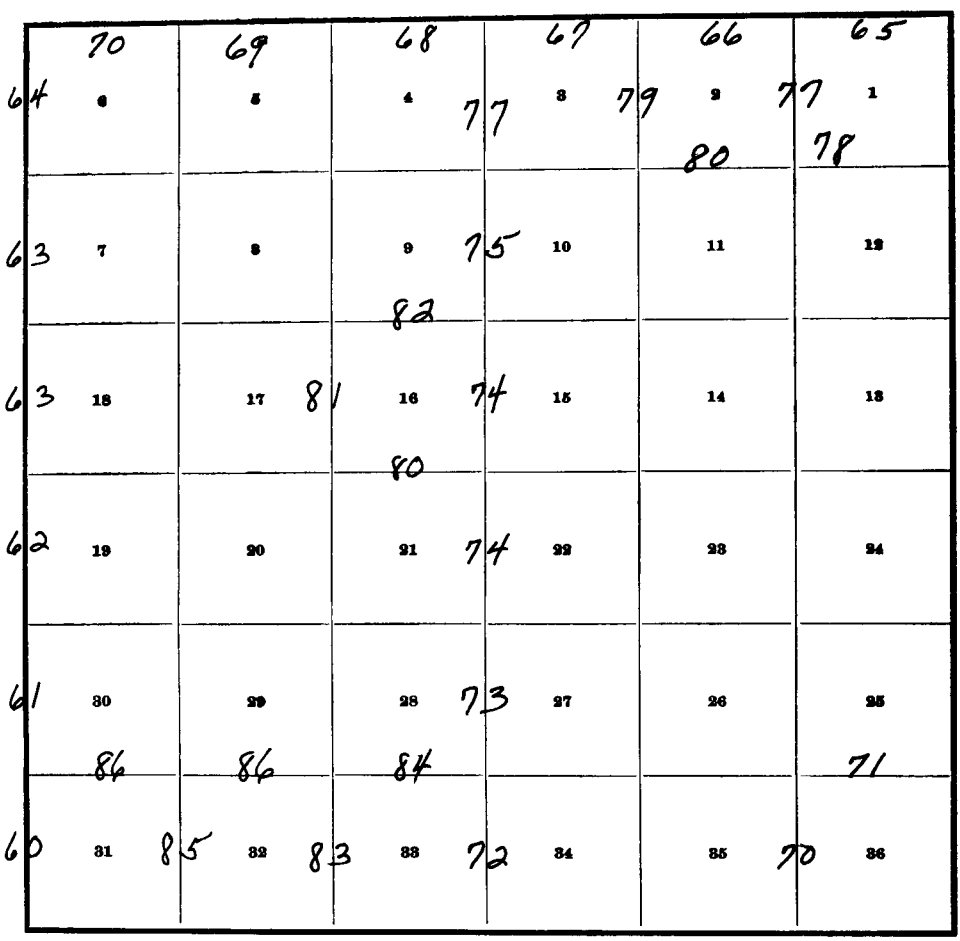
# INDEX DIAGRAM

Township 37 SOUTH, Range 16 EAST

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*Survey completed* ....., *19*.....

4A

# INDEX DIAGRAM

Township 38 SOUTH, Range 15 EAST

| | | | | | |
|---|---|---|---|---|---|
| 97<br>6 | 96<br>5 | 95<br>4 | 94<br>103<br>3 | 93<br>105<br>2<br>106 | 92<br>103<br>1<br>104 |
| 7 | 8 | 9<br>108 | 102<br>10 | 11 | 12 |
| 18 | 17<br>107 | 16<br>107 | 101<br>15 | 14 | 13 |
| 19 | 20 | 21 | 100<br>22 | 23 | 24 |
| 30 | 29<br>110 | 28 | 99<br>27 | 26 | 25<br>98 |
| 31<br>116 | 32<br>109 | 33 | 98<br>34 | 35 | 97<br>36 |

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4—370
(September 1948)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

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*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

5A

# INDEX DIAGRAM

*Township* 38 SOUTH, *Range* 16 EAST

| | | | | | |
|---|---|---|---|---|---|
| 127<br>122 6 | 126<br>5 | 126<br>4 | 124<br>133 3<br>137 | 124<br>135 2<br>136 | 123<br>134 1<br>135 |
| 121 7 | 8 | 9<br>139 | 133 10 | 11 | 12 |
| 121 18 | 17 | 138 16<br>137 | 132 15 | 14 | 13 |
| 120 19 | 20 | 21 | 131 22 | 23 | 24 |
| 118 30<br>142 | 29<br>142 | 28<br>140 | 131 27 | 26 | 25<br>129 |
| 118 31 | 141 32 | 139 33 | 130 34 | 35 | 128 36 |

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*Survey completed* ....., *19*.....

GA

# INDEX DIAGRAM

Township 39 SOUTH, Range 11 EAST

| | | | | | |
|---|---|---|---|---|---|
| 198 | 197 | 197 | 196 | 195 | 194 |
| 6 | 5 | 4 203 | 3 203 | 2 205 | 1 194 |
| | | | | 204 | |
| 7 | 8 | 9 202 | 10 | 11 | 12 193 |
| | | 207 | | | |
| 18 | 17 206 | 16 202 | 15 | 14 | 13 192 |
| | | 205 | | | |
| 19 | 20 | 21 201 | 22 | 23 | 24 192 |
| 30 | 29 | 28 200 | 27 | 26 | 25 191 |
| | 209 | | | | 199 |
| 31 208 | 32 207 | 33 200 | 34 | 35 198 | 36 190 |

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*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

7A

# INDEX DIAGRAM

*Township* 39 SOUTH, *Range* 12 EAST

| | | | | | |
|---|---|---|---|---|---|
| 218<br>6 | 218<br>5 | 217<br>4 223 | 217<br>3 224 | 216<br>2 225 | 215<br>1 |
| 7 | 8 | 9 223<br>226 | 10 | 224<br>11 | 12 |
| 18 | 17 226 | 16 222 | 15 | 14 | 13 |
| 19 | 20 | 225<br>21 222 | 22 | 23 | 24 |
| 30 | 29<br>228 | 28 221 | 27 | 26 | 25<br>220 |
| 31 228 | 32 | 227 33 220 | 34 | 35 219 | 36 |

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*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

8A

# INDEX DIAGRAM

*Township* 39 SOUTH, *Range* 13 EAST

| | | | | | |
|---|---|---|---|---|---|
| 244<br>6 | 244<br>5 | 243<br>4 249 | 242<br>3 250 | 242<br>2 251<br>250 | 241<br>1 240 |
| 7 | 8 | 9 248<br>253 | 10 | 11 | 12 239 |
| 18 | 17 252 | 16 248<br>251 | 15 | 14 | 13 239 |
| 19 | 20 | 21 247 | 22 | 23 | 24 238 |
| 30 | 29<br>255 | 28 247 | 27 | 26 | 25 237<br>245 |
| 31 254 | 32 253 | 33 246 | 34 | 35 245 | 36 237 |

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UNITED STATES
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*nd assignment instructions dated* ....., *19*.....

*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

9A

# INDEX DIAGRAM

*Township* 39 SOUTH, *Range* 14 EAST

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 264 |
| 31 | 32 | 33 | 34 | 35 263 | 36 |

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

T 39 S R 14 E Page 269

*Of the* ..... *Meridian,*

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*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

10A

# INDEX DIAGRAM

*Township* 39 SOUTH, *Range* 14 EAST

| | | | | | |
|---|---|---|---|---|---|
| 275 6 | 275 5 | 274 4 280 | 3 282 | 272 2 280 | 271 1 |
| 7 | 8 | 9 279 | 10 | 281 11 | 12 |
| 18 | 17 283 | 284 16 278 | 15 | 14 | 13 |
| 19 | 20 | 282 21 277 | 22 | 23 | 24 |
| 30 | 29 | 28 277 | 27 | 26 | 25 |
| 31 285 | 286 32 284 | 33 276 | 34 | 35 | 36 |

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*Survey completed* ....., *19*.....

11A

# INDEX DIAGRAM

*Township* 39 SOUTH, *Range* 15 EAST

| | | | | | |
|---|---|---|---|---|---|
| 299<br>6 | 298<br>5 | 297<br>4 305 | 296<br>3 307<br>308 | 296<br>2 306<br>308 | 295<br>1<br>306 |
| 7 | 8 | 9 304<br>310 | 10 | 11 | 12 |
| 18 | 17 310 | 16 303<br>309 | 15 | 14 | 13 |
| 19 | 20 | 21 303 | 22 | 23 | 24 |
| 30<br>314 | 29<br>313 | 28 302<br>312 | 27 | 26 | 25<br>301 |
| 31 313 | 32 311 | 33 301 | 34 | 35 300 | 36 |

GPO 866119

UNITED STATES
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*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

12A

# INDEX DIAGRAM

*Township* 39 SOUTH, *Range* 16 EAST

| | | | | | |
|---|---|---|---|---|---|
| 327 | 328 | 327 | 327 | 326 | 325 |
| 324 6 | 5 | 4 | 336 3 | 340 2 | 337 1 |
| | | | 341 | 339 | 338 |
| 324 7 | 8 | 9 | 335 10 | 11 | 12 |
| | | 344 | | | |
| 323 18 | 17 | 342 16 | 335 15 | 14 | 13 |
| | | 341 | | | |
| 322 19 | 20 | 21 | 334 22 | 23 | 24 |
| 322 30 | 29 | 28 | 333 27 | 26 | 25 |
| | 346 | | | | 331 |
| 321 31 | 345 32 | 344 33 | 332 34 | 35 | 330 36 |

GPO 866119

UNITED STATES
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*and assignment instructions dated* ....., *19*.....

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*Survey completed* ....., *19*.....

13A

# INDEX DIAGRAM

*Township* 40 SOUTH, *Range* 11 EAST

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

353 352 353

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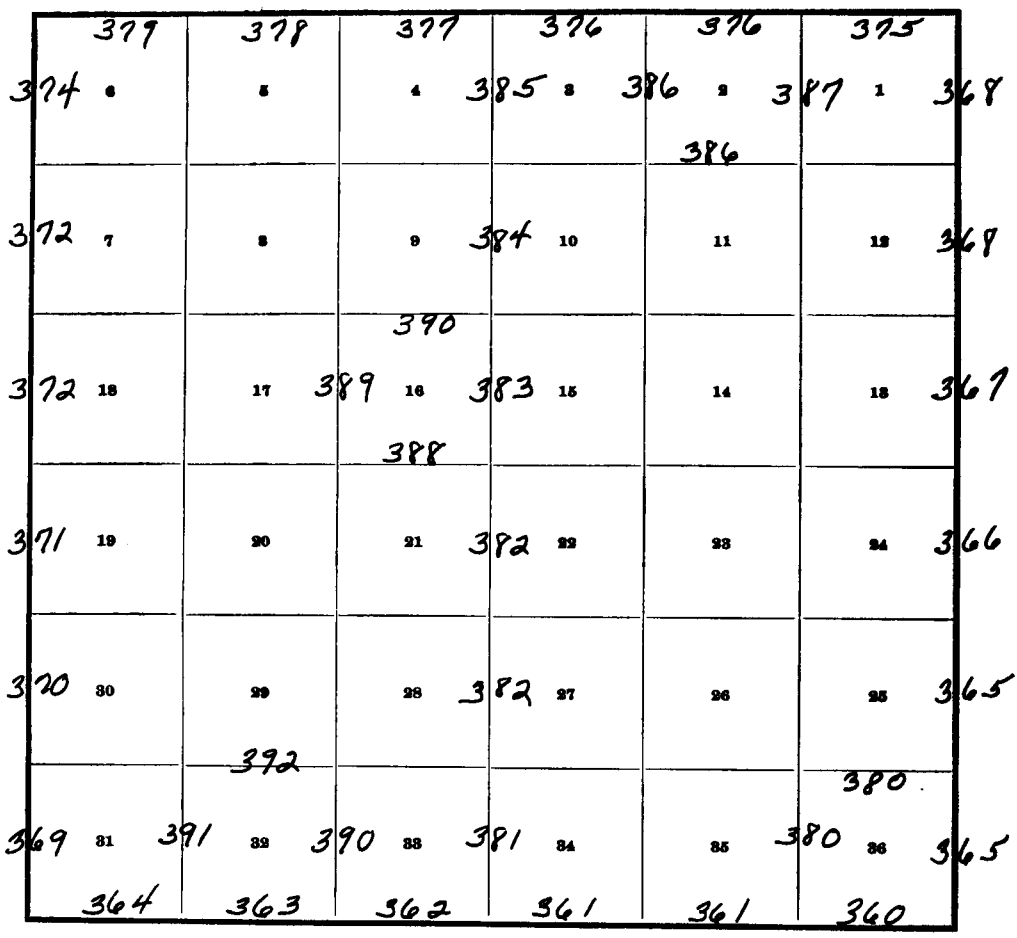
*Survey commenced* ....., *19*.....

*Survey completed* ....., *19*.....

14A

# INDEX DIAGRAM

Township 40 SOUTH, Range 10 EAST




GPO 866119

Meanders of the Colorado River through sec. 2 - on pages 392 & 393.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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# FIELD NOTES

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*Survey completed* ....., *19*.....

15A

# INDEX DIAGRAM

Township 40 SOUTH, Range 11 EAST

| | | | | | |
|---|---|---|---|---|---|
| 407<br>6 | 406<br>5 | 406<br>4 414 | 405<br>3 414 | 404<br>2 416 | 404<br>1 403 |
| 7 | 8 | 9 413<br>418 | 10 | 415<br>11 | 12 403 |
| 18 | 17 417 | 16 413 | 15 | 14 | 13 402 |
| 19 | 20 | 21 412<br>416 | 22 | 23 | 24 401 |
| 30 | 29<br>420 | 28 411 | 27 | 26 | 25 400<br>409 |
| 31 419 | 32 418 | 33 410 | 34 | 35 408 | 36 400 |

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The meanders of the right bank of the San Juan River through Sec. 32, on page 421

UNITED STATES
DEPARTMENT OF THE INTERIOR
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*Survey completed* ....., *19*.....

16A

# INDEX DIAGRAM

Township 40 SOUTH, Range 12 EAST

| | | | | | |
|---|---|---|---|---|---|
| 432 6 | 432 5 | 431 4 438 | 430 3 439 | 429 2 440 440 | 428 1 |
| 7 | 8 | 9 438 442 | 10 | 11 | 12 |
| 18 | 17 442 | 16 437 441 | 15 | 14 | 13 |
| 19 | 20 | 21 436 | 22 | 23 | 24 |
| 30 | 29 445 | 28 435 | 27 | 26 | 25 434 |
| 31 444 | 32 443 | 33 435 | 34 | 35 433 | 36 |

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*Survey completed* ....., *19*.....

1 FA

# INDEX DIAGRAM

*Township* 40 SOUTH, *Range* 12 EAST

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 | 464 |
| 7 | 8 | 9 | 10 | 11 | 12 | 461 |
| 18 | 17 | 16 | 15 | 14 | 13 | 459 |
| 19 | 20 | 21 | 22 | 23 | 24 | 456 |
| 30 | 29 | 28 | 27 | 26 | 25 | 455 |
| 31 | 32 | 33 | 34 | 35 | 36 | 453 |

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17B

# INDEX DIAGRAM

*Township* 40 SOUTH, *Range* 13 EAST

| | | | | | |
|---|---|---|---|---|---|
| 476<br>6 | 475<br>5 | 474<br>4 481 | 474<br>3 482 | 473<br>2 483<br>483 | 472<br>1 |
| 7 | 8 | 9 481<br>485 | 10 | 11 | 12 |
| 18 | 17 485 | 16 480<br>484 | 15 | 14 | 13 |
| 19 | 20 | 21 480 | 22 | 23 | 24 |
| 30 | 29<br>488 | 28 479 | 27 | 26 | 25<br>476 |
| 31 487 | 32 486 | 33 478 | 34 | 35 479 | 36 472 |

GPO 866119

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

# FIELD NOTES

of the

Survey of the West Boundary

and a

Portion of the Subdivisional Lines

of

Township 36 South, Range 16 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *19*55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *19*56

*Survey commenced* October 26, *19*56

*Survey completed* November 16, *19*56

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 36 South, *Range* 16 East

| | | | | | |
|---|---|---|---|---|---|
| 5 6 | 5 | 4 | 3 | 2 | 1 |
| 4 7 | 8 | 9 | 10 | 11 | 12 |
| 4 18 | 17 | 16 | 15 | 14 | 13 |
| 3 19 | 20 | 21 | 22 | 23 | 24 |
| 2 30 | 29<br>7 | 28 | 27 | 26 | 25<br>9 |
| 1 31 | 6 32 | 6 33 | 34 | 35 | 8 36 |

16—58770-1

145'

Township 36 South, Range 16 East

Chains

The following field notes are those of the survey of the west boundary and the boundaries of sections 32 and 36, T. 36 S., R. 16 E. deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections normally considered State school sections.

The east boundary was surveyed by Moore and Yundt in 1929 and its record appears in the official record of the survey of the range line between Ranges 16 and 17 East, Township 36 South. The north boundary was surveyed by Robert C. Yundt in 1930 and its record appears in the official record of the survey of the Seventh Standard Parallel South of the Salt Lake Meridian. The south boundary was surveyed concurrently under Group 405 and its record appears in the field notes of the survey of the north boundary of T. 37 S., R. 16 E.

The record of the instruments, tests, adjustments, and methods employed is contained in the field notes of the survey of T. 38 S., R. 16 E.

The directions of the lines of this survey were determined generally by sustained angulation carried forward from the hour angle observation on Polaris for meridian, which appears in the field notes of T. 38 S., R. 16 E., supplemented by numerous other Polaris observations for azimuth taken throughout the progress of the survey.

The geographic position of the SE. cor. of T. 36 S., R. 16 E. is latitude 37° 36' 24" N. and longitude 110° 05' 35" W., as determined by traverse from U.S.G.S. triangulation station "Rock", situated in the NW. portion of section 2, T. 37 S., R. 15 E.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° East.

Survey of the West Boundary of T. 36 S., R. 16 E.

Beginning at the cor. of Ts. 36 and 37 S., Rs. 15 and 16 E., which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the survey of T. 37 S., R. 16 E.

North, bet. secs. 31 and 36.

Desc. 240 ft. over broken ledges of canyon wall, bears SW. and NE.

40.00 Point for the ¼ sec. cor. of secs. 31 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., on exposed sandstone, over an X cut into the sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T36S
R15E R16E
¼
S 36 | S 31
1956

No suitable accessories available.

| Chains | |
|---|---|
| 45.10 | Wash, 20 lks. wide, 3 ft. deep, drains SW.; asc. 200 ft. over S sloping talus and near vertical ledge. |
| 51.20 | Mesa rim, bears SW. and NE., with near vertical ledge facing SE 50 ft. high. Asc. 80 ft. over near level mesa top to sec. cor. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, to top of post, wi brass cap mkd. |

T36S
R15E R16E
S25 | S30
S36 | S31
1956

No suitable accessories available.

Land, south half, broken canyon wall; north half, nearly level mesa top, general SW. drainage.
Soil, sandy, with sandstone outcrops.
Timber, heavy pinon and juniper on the mesa top; undergrowth, moderate artemisia.

---

North, bet. secs. 25 and 30.

Over nearly level land.

| | |
|---|---|
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and supported in a mound of stone, 4 ft base, to top of post, with brass cap mkd. |

T36S
R15E R16E
¼
S 25 | S 30
1956

No suitable accessories available.

| | |
|---|---|
| 48.00 | Wash, near head, drains SW. |
| 80.00 | Spur, sloping SW. |
| | Point for the cor. of secs. 19, 24, 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base, to top of post, with brass cap mkd. |

T36S
R15E R16E
S24 | S19
S25 | S30
1956

from which

Survey of the West Boundary of T. 36 S., R. 16 E.

| Chains | |
|---|---|
| | A pinon, 6 ins. diam., bears S. 39° 55' E., 42 lks. dist., mkd. BT S30. |
| | A pinon, 10 ins. diam., bears N. 50° 23' W., 44 lks. dist., mkd. BT. |
| | A juniper, 15 ins. diam., bears S. 22° 03' W., 70 lks. dist., mkd. BT S25. |
| | Land, nearly level mesa top, general SW. drainage. Soil, sandy. Timber, heavy pinon and juniper; undergrowth, moderate artemisia. |
| | North, bet. secs. 19 and 24. |
| | Desc. 80 ft. over mesa top. |
| 12.40 | S. rim of canyon wall; desc. 560 ft. over broken ledges facing N., bears E. and W. |
| 37.50 | Wash channel in bottom of Blue Canyon, drains SW.; asc. 80 ft. over steep S. sloping talus. |
| 40.00 | True point for the ¼ sec. cor. of secs. 19 and 24, falls on steep boulder strewn talus, sloping S.; asc. 320 ft. over broken ledges. |
| 49.70 | Boulder strewn bench. |
| | Point selected for the witness ¼ sec. cor. of secs. 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid bedrock, supported in a mound of stone, 4 ft. base, to top of post, with brass cap mkd. |
| | T36S<br>R15E R16E<br>¼<br>S 24 \| S 19<br>W C<br>1956 |
| | No suitable accessories available. |
| | Asc. 220 ft. over broken ledges facing S. |
| 57.70 | N. rim of canyon wall, with 50 ft. ledge, facing S., bears E. and W.; asc. 280 ft. over SE. slope of spur. |
| 71.50 | Sandstone spur, sloping SW.; desc. 45 ft. over NW. slope. |
| 80.00 | Point for the cor. of secs. 13, 18, 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid bedrock, and in a mound of stone, 4 ft. base, to top of post, with brass cap mkd. |
| | T36S<br>R15E R16E<br>S13 \| S18<br>S24 \| S19<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available.<br><br>Land, broken sandstone ledges, general SW. drainage.<br>Soil, sandy, with numerous exposed sandstone ledges.<br>Timber, moderate juniper and pinon; undergrowth, scattered artemisia. |
| | North, bet. secs. 13 and 18.<br><br>Along broken ledges of canyon, sloping SW. |
| 16.00 | Wash, 50 lks. wide, 2 ft. deep, near head, drains SW.; asc. over broken ledges. |
| 19.00 | Top of steep ascent, bears E. and W.; thence over nearly level land. |
| 32.00 | Point selected for the witness ¼ sec. cor. of secs. 13 and 18.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and supported in a mound of stone, 3 ft. base, to top of post, with brass cap mkd.<br><br>T36S<br>R15E R16E<br>W C<br>¼<br>S 13 ↑ S 18<br>1956<br><br>No suitable accessories available. |
| 33.00 | N. rim of mesa, by triangulation desc. 400 ft. over nearly vertical ledge facing N., bears E. and W. |
| 40.00 | True point for the ¼ sec. cor. of secs. 13 and 18, falls at the base of near vertical ledge on steep N. sloping boulder strewn talus, where it is impractical to set the monument.<br><br>Continue to desc. 400 ft. over talus to sec. cor. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, to top of post, with brass cap mkd.<br><br>T36S<br>R15E R16E<br>S12 \| S7<br>S13 \| S18<br>1956<br><br>No suitable accessories available.<br><br>Land, broken, general W. to NW. drainage.<br>Soil, sandy, boulder strewn.<br>Timber, moderate to scattered juniper and pinon; undergrowth, moderate artemisia. |
| | North, bet. secs. 7 and 12.<br><br>Desc. 480 ft. over N. facing broken ledges and N. sloping boulder strewn talus. |

Survey of the West Boundary of T. 36 S., R. 16 E.

| Chains | |
|---|---|
| 37.80 | Utah State Highway No. 95, bears NW. and SE.; thence by chaining over nearly level land. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>T36S<br>R15E R16E<br>¼<br>S 12 \| S 7<br>1956 |
| | No suitable accessories available. |
| 70.20 | White Canyon, 300 lks. wide, 20 ft. deep, drains W. to NW. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 4 ft. base, to top of post, with brass cap mkd.<br>T36S<br>R15E R16E<br>S1 \| S6<br>S12 \| S7<br>1956 |
| | No suitable accessories available. |
| | Land, broken, general NW. drainage.<br>Soil, sandy, with exposed sandstone.<br>Timber, moderate pinon and juniper; undergrowth, dense blackbrush. |
| | North, bet. secs. 1 and 6. |
| 17.80 | Bladed dirt road, bears E. and W.; asc. 65 ft. over slight S. slope. |
| 29.96 | Intersect the Seventh Standard Parallel South, at point for the closing cor. of secs. 1 and 6, Ts. 36 S., Rs. 15 and 16 E. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, to top of post, with brass cap mkd.<br>T35S R16E<br>S31<br>S1 \| S6<br>R15E R16E<br>C C<br>T36S<br>1956 |
| | From which the standard ¼ sec. cor. of sec. 31, T. 35 S., R. 16 E., which is marked by an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the official record of the survey of the Seventh Standard Parallel South, bears West, 40 lks. dist. |

Chains

Land, nearly level, general W. drainage.
Soil, sandy.
Timber, scattered juniper; undergrowth, moderate artemisia.

Survey of a Portion of the Subdivision of T. 36 S., R. 16 E.

Beginning at the cor. of secs. 4, 5, 32 and 33, on the S. bdy. the township, which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes the survey of the north boundary of T. 37 S., R. 16 E.

N. 0° 03' W., bet. secs. 32 and 33.

Desc. 120 ft. over slight NW. slope to ¼ sec. cor.

40.00 Point for the ¼ sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the gr to solid bedrock, and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T36S R16E
¼
S 32 | S 33
1956

No suitable accessories available.

56.50 NE. facing rim of mesa; desc. 250 ft. over near vertical ledge and 200 ft. over NE. sloping talus.

80.00 Point for the cor. of secs. 28, 29, 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base, to top of post, with brass cap mkd.

T36S R16E
S29 | S28
S32 | S33
1956

No suitable accessories available.

Land, rough and broken, general SW. drainage.
Soil, sandy, with large areas of exposed sandstone.
Timber, moderate juniper and pinon; undergrowth, scattered artemisia.

Beginning at the true point for the cor. of secs. 5, 6, 31 and 3 on the south boundary of the township, or S. 89° 50' E., 10 lks. dist. from the witness cor. of secs. 5, 6, 31 and 32, which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the survey of the north boundary of T. 37 S., R. 16 E.

N. 0° 03' W., bet. secs. 31 and 32.

| Chains | |
|---|---|
| | By triangulation asc. 360 ft. over steep, boulder strewn S. sloping talus and near vertical ledge. |
| 13.50 | Rim of mesa, with near vertical ledge, 320 ft. high, facing SE., bears NE. and SW.; by chaining asc. 240 ft. over SE. sloping talus. |
| 20.00 | Top of mesa, bears NE. and SW.; thence over nearly level mesa top. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base, to top of post, with brass cap mkd. |
| | T36S R16E<br>¼<br>S 31 \| S 32<br>1956 |
| | No suitable accessories available. |
| | Asc. 80 ft. over nearly level mesa top. |
| 60.00 | Top of ascent on spur, sloping SW.; desc. 95 ft. over slight NW. slope. |
| 80.00 | Point for the cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, to top of post, with brass cap mkd. |
| | T36S R16E<br>S30 \| S29<br>S31 \| S32<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level mesa top, general S. drainage.<br>Soil, deep sandy.<br>Timber, patches of heavy juniper and pinon; undergrowth, dense artemisia. |
| | From the cor. of secs. 28, 29, 32 and 33. |
| | N. 89° 49' W., bet. secs. 29 and 32. |
| | By triangulation asc. 520 ft. over steep, boulder strewn NE. sloping talus and near vertical ledge. |
| 31.70 | Rim of mesa, with near vertical ledge, 250 ft. high, facing NE., bears NW. and SE.; by chaining asc. 45 ft. over near level mesa top. |
| 40.05 | Point for the ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base, to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | T36S R16E<br>¼ S 29 / S 32<br>1956 |
| | No suitable accessories available. |
| 46.70 | Wash, 200 lks. wide, 2 ft. deep, drains SW. |
| 55.00 | Spur, sloping S.; desc. 45 ft. over slight W. slope. |
| 80.10 | The cor. of secs. 29, 30, 31 and 32. |
| | Land, nearly level mesa top.<br>Soil, sandy.<br>Timber, moderate to heavy juniper and pinon; undergrowth, scattered artemisia. |

From the cor. of secs. 1, 2, 35 and 36, on the south boundary of the township, which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes the survey of T. 37 S., R. 16 E.

N. 0° 01' W., bet. secs. 35 and 36.

Asc. 45 ft. over nearly level floor of Fry Canyon.

| Chains | |
|---|---|
| 22.20 | Wash, drains SW. |
| 35.80 | Wash, 75 lks. wide, 2 ft. deep, drains SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid sandstone, and supported in a mound of stone, 3 ft. base, to top of post, with brass cap mkd. |

T36S R16E
¼
S 35 | S 36
1956

No suitable accessories available.

By triangulation asc. 400 ft. over SE. facing broken ledges.

| Chains | |
|---|---|
| 63.00 | Third ledge below mesa top; by chaining asc. 80 ft. over broken ledges. |
| 77.80 | Spur, sloping SW. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and supported in a mound of stone, 4 ft base, to top of post, with brass cap mkd. |

T36S R16E
S26 | S25
S35 | S36
1956

| Chains | |
|---|---|
| | No suitable accessories available.<br>Land, south half, near level valley floor; north half, broken ledges, general drainage is S. to SW.<br>Soil, sandy.<br>Timber, scattered juniper and pinon; undergrowth, scattered artemisia. |
| | From the cor. of secs. 25 and 36, on the east boundary of the township, which is marked by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record of the survey of T. 36 S., R. 17 E.<br><br>N. 89° 49' W., bet. secs. 25 and 36.<br><br>Along broken ledges, facing S., bears E. and W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and supported in a mound of stone, 3 ft. base, to top of post, with brass cap mkd.<br><br>T36S R16E<br>¼ S 25 / S 36<br>1956<br><br>No suitable accessories available. |
| 70.00 | Head of wash, drains S.; asc. 95 ft. over SE. slope. |
| 80.00 | Spur, sloping SW.<br><br>The cor. of secs. 25, 26, 35 and 36.<br><br>Land, rough and broken, general S. drainage.<br>Soil, sandy, covered with large boulders and rocky.<br>Timber, moderate juniper and pinon; undergrowth, moderate artemisia. |

General Description

In view of the fact that the foregoing field notes are of the west boundary and the boundaries of sections 32 and 36, T. 36 S., R. 16 E. only, and the completion of the subdivision for the rest of those sections normally considered State school sections is planned in the near future, when a more comprehensive description will be feasible, this description will be confined to the areas of sections 32 and 36.

The land of section 32 is nearly level mesa top, being cut by a tributary of Red Canyon which drains SW. from a point near the ¼ sec. cor. of secs. 32 and 33 to the south boundary in the SW. portion of section 32. With the exception of the areas immediately bordering the canyon, which are barren sandstone, the section is covered by a dense growth of mixed juniper and pinon.

Section 36 has a variety of land forms, ranging from near level valley floor of Fry Canyon in the south half to broken ledges and boulder strewn talus slopes in the north half. The main drainage is S. to SW. in both sections. The vegetational cover in section 36 consists of scattered juniper and pinon and thinly scattered artemisia.

| Chains | |
|---|---|
| | There is no evidence of development in either section and t utilization of the land is in winter grazing of cattle. |

(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Dell (NMN) Cazier | Note-keeper |
| Ray D. Nielson | Frontchainman |
| Darwin P. Russell | Cornerman |
| Craig A. Redd | Flagman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor tha

pursuance of special instructions bearing date of the 13 day of May, 1

I have surveyed the west boundary and the boundaries of secs. 32 and 36

Township 36 South, Range 16 East.

of the Salt Lake Meridian, in the State of Utah, whic

represented in the foregoing field notes as having been executed by me and under my direction; and

said survey has been made in strict conformity with said instructions, the Manual of Instructions fo

Survey of the Public Lands of the United States, and in the specific manner described in the foreg

field notes.

Salt Lake City, Utah

January 4, 1957

Phil D. Smith

Phil D. Smith, Cadastral Surveyo

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* JUL 23 1957, 19

The foregoing field notes of the survey of the west boundary and the boundaries of secs. 32 and 36, of Tp. 36 S., R. 16 E., of the Salt Lake meridian, Utah.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff Offi*

## ~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY that the foregoing transcript of the field notes of the ~~above~~-described surveys in

, is a true copy ~~of the~~ original field notes.

*~~Cadastral Engineering Staff Offi~~*

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

(September 1946)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

of the

Survey of the North Boundary

and a

Portion of the Subdivision

of

Township 37 South, Range 15 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *19*55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *19*56

*Survey commenced* August 27, *19*56

*Survey completed* October 25, *19*56

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 37 South, *Range* 15 East

| | | | | | |
|---|---|---|---|---|---|
| 6<br>6 | 5<br>5 | 4<br>4 | 3<br>13 3 | 2<br>14 2<br>15 | 1<br>13 1 |
| 7 | 8 | 9 | 12 10 | 11 | 12 |
| 18 | 17 | 17<br>17 16<br>16 | 11 15 | 14 | 13 |
| 19 | 20 | 21 | 10 22 | 23 | 24 |
| 30 | 29 | 28 | 9 27 | 26 | 25 |
| 31 | 20<br>19 32 | 19<br>18 33 | 8 34 | 35 | 7<br>6 36 |

10—56770-1

Chains

The west boundary was surveyed by Robert C. Yundt in 1930 and its record appears in the official record of the range line between ranges 14 and 15 east, T. 37 S.; the east and south boundaries were concurrently surveyed under Group 405 and the record for the east boundary appears in the field notes of the survey of T. 37 S., R. 16 E. The record of the survey of the south boundary appears in the field notes of T. 38 S., R. 15 E.

The following field notes are those of the survey of the north boundary and a portion of the subdivision of T. 37 S., R. 15 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered State school sections.

A record of the instruments, test, adjustments and the methods employed are recorded in the field notes of the survey of T. 38 S., R. 16 E., this group.

The direction of the lines of this survey were determined generally by sustained angulation carried forward from the hour angle observation on Polaris for meridian, which appears in the field notes of T. 38 S., R. 16 E., being supplemented by other numerous Polaris observations for azimuth taken throughout the progress of the survey.

The geographic position for the SE. cor. of the township is at latitude 37° 31' 12" N. and longitude 110° 12' 07" W., as determined by traverse from U. S. G. S. triangulation station "Rock", situated in the NW. portion of section 2.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° E.

North Boundary of T. 37 S., R. 15 E.

Beginning at the cor. of Ts. 36 and 37 S., Rs. 15 and 16 E., which is marked by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 37 S., R. 16 E., surveyed concurrently under this same group.

S. 89° 48' W., bet. secs. 1 and 36.

By triangulation desc. 680 ft. over broken ledges, facing NW., of fork of Red Canyon, drains SW.

40.00 True point for the ¼ sec. cor. of secs. 1 and 36, falls on broken ledges, facing NW., bears SW. and NE., where it is impractical to set the monument.

40.20 Wash, 20 lks. wide, 3 ft. deep, drains SW.; asc. 120 ft. over broken ledges of SE. facing canyon wall, bears SW. and NE.

50.00 Bench, 120 ft. below crest of spur, projecting S.

Point selected for the witness ¼ sec. cor. of secs. 1 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and in a mound of stone, 4 ft. base to top of post, with brass cap marked

| Chains | |
|---|---|
| | ¼ S 36 / S 1 → WC<br>1956 |
| | No suitable accessories available. |
| 52.20 | Wash, near head, drains SW. |
| 62.70 | Top of ascent on spur, projecting SW.; desc. 560 ft. over broken ledges, facing W., bears N. and S. |
| 79.00 | Wash, 100 lks. wide, 4 ft. deep, drains S.; asc. 40 ft. over boulder strewn talus sloping SE. |
| 80.00 | The true point for the cor. of secs. 1, 2, 35, and 36, falls on steep boulder strewn talus sloping SE., where the monument cannot be perpetuated. |
| | Land, rough and broken, with general SW. drainage.<br>Soil, sandy, boulder strewn, with numerous sandstone outcrops.<br>Timber, moderate juniper, undergrowth, scattered black brush. |
| | S. 89° 48' W., bet secs. 2 and 35. |
| | Asc. 35 ft. over boulder strewn SE. sloping talus. |
| .35 | Ledge, bears NE. and SW. |
| 1.00 | Point selected for the witness cor. of secs. 1, 2, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T36S R16E<br>S35 \| S36<br>S 2 \| S 1 → WC<br>T37S<br>1956 |
| | No suitable accessories available. |
| 18.00 | Wash, 40 lks. wide, 3 ft. deep, drains SE. |
| 29.00 | W. canyon wall, facing E., bears NE. and SW., by chaining asc. gentle E. slope. |
| 33.00 | Spur, sloping SW.; desc. 22 ft. over gentle W. slope to ¼ sec. co |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked |
| | T36S R15E<br>¼ S 35 / S 2<br>T37S<br>1956 |
| | from which |

North Boundary of T. 37 S., R. 15 E.

| Chains | |
|---|---|
| | U. S. G. S. triangulation station "Rock", bears S. 30° 43' W., 33.328 chains. The geographic position of this station is latitude 37° 36'05.575" N., longitude 110° 13' 59.483" W. |
| 50.90 | W. rim of Moss Back Mesa, curves SE. to NE.; desc. 240 ft. over broken ledges, facing W. |
| 69.40 | Top of vertical ledge, 100 ft. high, facing W., bears N. and S., by triangulation desc. 125 ft. to sec. cor. |
| 80.00 | Point for the cor. of secs. 2, 3, 34, and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>T36S R15E<br>S34 \| S35<br>S 3 \| S 2<br>T37S<br>1956<br>No suitable accessories available. |
| | Land, nearly level mesa top through the middle, with broken ledges and steep boulder strewn talus on both ends.<br>Soil, sandy, E. and W. ends strewn with boulders.<br>Timber, moderate to heavy juniper and pinon; undergrowth scattered artemisia. |
| | S. 89° 48' W., bet. secs. 3 and 34. |
| | Desc. 640 ft. over broken ledges, facing NW. |
| 10.60 | Bench, boulder strewn, bears NE. and SW. |
| 30.20 | Wash, 30 lks. wide, 3 ft. deep, drains NW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 34, falls on spur, sloping W., where the monument cannot be perpetuated. |
| 41.00 | Point selected for the witness ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T36S R15E<br>¼ S 34 → WC<br>S 3<br>1956<br>No suitable accessories available. |
| 42.00 | Wash, 60 lks. wide, 4 ft. deep, drains SW. |
| 65.00 | Wash, 750 lks. wide, 25 ft. deep, drains SW.; asc. 120 ft. over E. slope of spur. |
| 80.00 | Spur, sloping SW. |
| | Point for the cor. of secs. 3, 4, 33, and 34. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid bedrock and in a mound of stone, 3 ft. base to to of post, with brass cap marked<br><br>T36S R15E<br>S33 \| S34<br>S 4 \| S 3<br>T37S<br>1956<br><br>No suitable accessories available.<br><br>Land, series of washes and spurs, sloping and draining W. to SW.<br>Soil, sandy, covered with sandstone rocks.<br>Timber, scattered juniper; undergrowth, scattered artemisia. |
| | S. 89° 48' W., bet. secs. 4 and 33.<br><br>Desc. 360 ft. over NW. slope. |
| 32.20 | Wash, 100 lks. wide, 4 ft. deep, drains W., follow along wash bottom. |
| 40.00 | True point for the ¼ sec. cor. of secs. 4 and 33, falls in wash, 50 lks. wide, 3 ft. deep, drains W., where the monument cannot be perpetuated.<br><br>At a point 100 lks. N.<br><br>Point selected for the witness ¼ sec. cor. of secs. 4 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T36S R15E<br>¼ S 33<br>S 4<br>T37S<br>WC<br>1956<br><br>No suitable accessories available. |
| 47.10 | Wash, 100 lks. wide, 4 ft. deep, drains SW. from E.; asc. 80 ft. over steep E. slope. |
| 52.10 | Spur, sloping SW.; desc. 80 ft. over steep W. slope. |
| 55.00 | Wash, 200 lks. wide, 4 ft. deep, drains SW.; asc. 160 ft. over broken ledges, bears N. and S. |
| 60.00 | Spur, sloping SE.; desc. 80 ft. over steep NW. slope. |
| 62.50 | Wash, 50 lks. wide, 4 ft. deep, drains S. to SE.; asc. 160 ft. over E. slope. |
| 70.00 | Spur, projecting S.; desc. 80 ft. over W. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32, and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |

| Chains | |
|---|---|
| | T36S R15E<br>S32 \| S33<br>S 5 \| S 4<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Land, broken, general W. drainage.<br>Soil, sandy covered with rocks and boulders.<br>Timber, none; undergrowth, scattered black brush and Brigham tea. |
| | S. 89° 48' W., bet. secs. 5 and 32. |
| | Over nearly level spur, projecting SW. |
| 11.00 | Wash, 50 lks. wide, 2 ft. deep, drains S.; asc. 120 ft. over E. side of spur, projecting S. |
| 16.00 | Spur, projecting S.; desc. 120 ft. over W. side. |
| 19.00 | Wash, 50 lks. wide, 3 ft. deep, drains S.; asc. 120 ft. over E. sloping side of spur, sloping S. |
| 39.00 | Spur, sloping S.; desc. 80 ft. over gentle W. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 5 and 32, falls on broken ledges, facing NW., bears SW. and NE., where it is impractical to set the monument. |
| 41.00 | N. rim of canyon, drains W. |
| 47.00 | Point selected for the witness ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T36S R15E<br>¼ S 32 WC<br>S 5<br>1956 |
| | No suitable accessories available. |
| | Desc. 120 ft. along S. facing ledges, bears E. and W. |
| 59.70 | Bladed road, bears N. and S., on spur, projecting S.; desc. 40 ft. |
| 62.00 | Wash, 50 lks. wide, 15 ft. deep, drains S. |
| 80.00 | Spur, sloping S. |
| | Point for the cor. of secs. 5, 6, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked |
| | T36S R15E<br>S31 \| S32<br>S 6 \| S 5<br>T37S<br>1956 |
| | No suitable accessories available. |

North Boundary of T. 37 S., R. 15 E.

| Chains | |
|---|---|
| | Land, rough and broken, general W. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush. |
| | S. 89° 48' W., bet. secs. 6 and 31. |
| | Desc. 120 ft. over W. side of spur, sloping S. |
| 10.00 | Wash, 20 lks. wide, 6 ft. deep, drains S. |
| 12.00 | Wash, 20 lks. wide, 6 ft. deep, drains SE.; asc. 80 ft. along SE sloping spur. |
| 20.10 | E. edge of bench, bears N. and S. |
| 32.00 | W. edge of bench, bears N. and S.; desc. 80 ft. |
| 39.00 | Wash, near head, drains S. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>T36S R15E<br>¼ S 31 / S 6<br>T37S<br>1956<br>No suitable accessories available. |
| 48.00 | Wash, 20 lks. wide, 6 ft. deep, drains S.; asc. 40 ft. over SE. slope. |
| 52.00 | Spur, sloping SW.; desc. 66 ft. to sec. cor. |
| 77.45 | The cor. of Ts. 36 and 37 S., Rs. 14 and 15 E., which is marked by an iron post, 3 ins. in diam., firmly set, marked and witnesse as described in the official record of the survey of the range li between ranges 14 and 15 E., T. 37 S.<br>Land, broken general W. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered and stunted black brush. |

Portion of the Subdivision, T. 37 S., R. 15 E.

Beginning at the cor. of secs. 1, 2, 35, and 36, on the S. bdy., which is marked by an iron post, 2½ ins. diam., firmly set, marke and witnessed as described in the field notes of the survey of T. 38 S., R. 15 E., surveyed concurrently under this same group.

N. 0° 01' W., bet. secs. 35 and 36.

Asc. 80 ft. over SW. slope.

Portion of the Subdivision, T. 37S. R. 15 E.

| Chains | |
|---|---|
| 5.80 | Spur, sloping S. to SE.; desc. 20 ft. over NW. slope. |
| 24.40 | Wash, 30 lks. wide, 3 ft. deep, drains SW.; asc. 200 ft. over SE. slope. |
| 36.00 | Small clay spur, sloping E. |
| | Point selected for the witness ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap marked<br>¼<br>W C<br>S35 ↑ S36<br>1956<br>No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 35 and 36, falls at the head of a wash, drains W., where the monument cannot be perpetuated. |
| 45.60 | Spur, sloping W.; desc. 120 ft. over N. slope. |
| 53.00 | Wash, 20 lks. wide, 3 ft. deep, drains W. to SW.; asc. 120 ft. over SE. slope. |
| 55.50 | Spur, sloping SW.; desc. 35 ft. over NW. slope. |
| 57.20 | Wash, 30 lks. wide, 4 ft. deep, drains W. to SW.; asc. 80 ft. over SE. slope. |
| 63.00 | Spur, sloping SW.; desc. 25 ft. over gentle NW. slope. |
| 67.80 | Wash, near head, drains SW.; asc. 80 ft. over SE. slope. |
| 69.30 | Spur, projecting SW.; asc. 100 ft. over SW. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 18 ins. base to top of post, with brass cap marked<br>T37S R15E<br>S26 \| S25<br>S35 \| S36<br>1956<br>No suitable accessories available. |
| | Land, series of spurs and washes, drains and slopes W. to SW.<br>Soil, sandy, boulder strewn.<br>Timber, scattered juniper; undergrowth, none. |

From the cor. of secs. 25, 30, 31, and 36, on the E. bdy., which is marked by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 37 S., R. 16 E., surveyed concurrently under this same group.

S. 89° 46' W., bet. secs. 25 and 36.

| Chains | |
|---|---|
| | By triangulation; asc. 240 ft. over broken and nearly vertical ledges, facing NE., bears NW. and SE. |
| 40.01 | True point for the ¼ sec. cor. of secs. 25 and 36, falls on near vertical ledge, 100 ft. high, facing N., bears E. and W., where is impractical to set the monument. |
| | At a point 4 chains North |
| | Point selected for the witness ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼ S 25 / S 36<br>WC<br>1956 |
| | No suitable accessories available. |
| | From true point for the ¼ sec. cor. of secs. 25 and 36; asc. 120 ft. over broken ledges. |
| 55.00 | High point of ascent on mesa; desc. 560 ft. over nearly vertical ledges, facing SW., bears NW. and SE. |
| 80.02 | The cor. of secs. 25, 26, 35 and 36. |
| | Land, broken, main drainage is W.<br>Soil, sandy, covered with sandstone rocks and boulders.<br>Timber, thinly scattered juniper; undergrowth, none. |
| | From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the township, which is marked by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 38 S., R. 15 E., surveyed concurrently under this same group. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Desc. 200 ft. over boulder strewn talus, NE. sloping. |
| 7.00 | Wash, near head, drains E. |
| 9.90 | Bladed road, bears S. 30° E. and S. 45° W. |
| 17.20 | Wash, 30 lks. wide, 4 ft. deep, drains NE.; bladed road in wash channel; asc. 27 ft. over E. slope. |
| 23.00 | Spur, sloping E.; desc. 26 ft. over NW. slope. |
| 32.50 | Wash, 60 lks. wide, 4 ft. deep, drains E.; asc. 24 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the grou and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | S33 ¼ S34<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| 41.40 | Spur, sloping SE.; desc. 40 ft. over N. slope. |
| 55.00 | Wash, near head, drains NE.; asc. 45 ft. over S. slope. |
| 64.00 | Spur, sloping E.; desc. 49 ft. over N. slope. |
| 67.20 | Improved road, bears S. 15° E. and W.; desc. 80 ft. over steep NE. sloping talus. |
| 71.00 | Spur, sloping NE. |
| | Point selected for the witness cor. of secs. 27, 28, 33, and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>W C<br>S28 S27<br>S33 S34<br>1956 |
| | No suitable accessories available. |
| | Desc. 160 ft. over broken NE. facing ledges. |
| 80.00 | True point for the cor. of secs. 27, 28, 33, and 34, falls on broken ledges, facing N., on the S. side of the S. fork of Red Canyon, where the monument cannot be perpetuated. |
| | Land, eroded , boulder strewn talus.<br>Soil, sandy, covered with rocks and boulders.<br>Timber, thinly scattered juniper; undergrowth, moderate black brush. |
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Desc. 120 ft. over N. sloping talus. |
| 15.00 | Wash, 200 lks. wide, 4 ft. deep, drains NW.; asc. 80 ft. over S. slope. |
| 31.30 | Wash, 30 lks. wide, 2 ft. deep, drains SW., by triangulation; asc. 280 ft. over broken ledges, facing SE., bears SW. and NE. |
| 40.00 | The true point for the ¼ sec. cor. of secs. 27 and 28, falls on broken ledges, facing SE., bearing SW. and NE., where it is impractical to set the monument. |
| 48.90 | Spur sloping W. |
| | Point selected for the witness ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>¼<br>S28 S27<br>W C<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| | Desc. 35 ft. over N. slope. |
| 52.20 | Wash, near head, drains W.; asc. 40 ft. over SE. slope. |
| 58.00 | Spur, sloping SW. |
| 63.20 | Spur, sloping SW. |
| 69.00 | Spur, sloping SW.; desc. 120 ft. over NW. facing ledges. |
| 75.00 | Small canyon, drains S. 75° W.; asc. 80 ft. over SE. slope. |
| 80.00 | True point for the cor. of secs. 21, 22, 27, and 28, falls on broken ledges, on SE. side of spur sloping SW., where the monument cannot be perpetuated. |
| | Land, series of spurs and washes, sloping and draining W. to SW. Soil, sandy, with numerous sandstone outcrops. Timber, very thinly scattered juniper; undergrowth, scattered artemisia. |

N. 0° 02' W., bet. secs. 21 and 22.

Asc. 80 ft. over SE. slope.

6.25 Spur, sloping SW.

Point selected for the witness cor. of secs. 21, 22, 27, and 28.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked

T37S R15E
S21 | S22
S28 | S27
WC
1956

No suitable accessories available.

20.00 S. rim of N. fork of Red Canyon; desc. 360 ft. over broken N. facing ledges.

27.50 Wash, 200 lks. wide, 6 ft. deep, drains W.; asc. 80 ft. over S. slope.

40.00 Point for the ¼ sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked

T37S R15E
¼
S21 | S22
1956

No suitable accessories available.

Asc. 120 ft. over steep S. sloping talus.

| Chains | |
|---|---|
| 49.00 | By triangulation asc. 320 ft. over SE. facing ledges. |
| 56.00 | NW. rim of N. fork of Red Canyon, by chaining asc. 80 ft. over SE. slope. |
| 63.00 | Spur, sloping SW., over nearly level bench. |
| 73.00 | Wash, near head, drains SW. |
| 74.00 | Bladed road, bears E. and W.; asc. 160 ft. over steep boulder strewn S. slope of hogback, |
| 78.80 | Top of ascent on hogback, bears E. and W.; desc. 30 ft. over steep boulder strewn N. side of hogback. |
| 80.00 | Point for the cor. of secs. 15, 16, 21, and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>T37S R15E<br>S16 \| S15<br>S21 \| S22<br>1956<br>No suitable accessories available. |
| | Land, broken general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| 2.20 | Bladed road, bears S. 70° W. and NE. |
| 4.50 | Wash, 50 lks. wide, 3 ft. deep, drains SW.; asc. 160 ft. over boulder strewn S. slope. |
| 8.20 | Top of ascent on spur, sloping E.; desc. 160 ft. over steep boulder strewn N. side of spur. |
| 19.00 | Wash, 20 lks. wide, 3 ft. deep, drains SE.; asc. 280 ft. over steep boulder strewn S. slope. |
| 38.50 | Wash, 20 lks. wide, 2 ft. deep, drains SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 5 ft. base to top of post, with brass cap marked<br>T37S R15E<br>¼<br>S16 \| S15<br>1956 |
| | No suitable accessories available. |
| | By triangulation asc. 160 ft. over S. sloping talus and 260 ft. over nearly vertical ledge, facing SE., bears SW. and NE. |
| 57.20 | S. rim of Moss Back Mesa, by chaining, asc. 160 ft. along W. facing broken ledges. |

| Chains | |
|---|---|
| 76.00 | Wash, 30 lks. wide, 2 ft. deep, drains W. |
| 80.00 | Point for the cor. of secs. 9, 10, 15, and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>S9 \| S10<br>S16 \| S15<br>1956 |
| | No suitable accessories available. |
| | Land, broken, main drainage is W. to SW.<br>Soil, sandy, with numerous sandstone ledges and outcrops.<br>Timber, scattered juniper; undergrowth, moderate black brush. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Along W. side of canyon wall. |
| 1.00 | Wash, 30 lks. wide, 3 ft. deep, drains W. |
| 8.00 | Wash, 25 lks. wide, 3 ft. deep, drains W.; asc. 20 ft. over S. facing broken ledges. |
| 15.90 | S. facing rim of box canyon, curves SW. to SE.; asc. 160 ft. over S. sloping spur. |
| 26.00 | Low spur, sloping SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>¼<br>S9 \| S10<br>1956 |
| | No suitable accessories available. |
| 41.45 | By triangulation desc. 280 ft. over broken ledges at head of canyon draining NE. |
| 55.00 | Wash, 100 lks. wide, 5 ft. deep, drains W.; asc. 200 ft. over SW. facing broken ledges. |
| 67.70 | Narrow spur, projecting W.; desc. 360 ft. over near vertical ledge and steep N. sloping talus. |
| 80.00 | Point for the cor. of secs. 3, 4, 9, and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |

Portion of the Subdivision of T. 37 S., R. 15 E.

| Chains | |
|---|---|
| | T37S R15E<br>S4 \| S3<br>S9 \| S10<br>1956<br><br>No suitable accessories available.<br>Land, rough and broken, main drainage is S.<br>Soil, sandy, boulder strewn over most of the mile.<br>Timber, moderate to scattered juniper; undergrowth, scattered artemisia. |
| | N. 0° 08' E., bet. secs. 3 and 4.<br><br>Desc. 620 ft. over steep boulder strewn N. sloping talus. |
| 31.50 | Point selected for the witness ¼ sec. cor. of secs. 3 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T37S R15E<br>¼<br>W C<br>S4 ↑ S3<br>1956<br><br>No suitable accessories available. |
| 33.00 | Wash, 30 lks. wide, 3 ft. deep, drains W. |
| 38.30 | Wash, 45 lks. wide, 2 ft. deep, drains W. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 4, falls on N. bank of wash, drains W., where the monument cannot be perpetuated.<br><br>Asc. 120 ft. over S. side of spur sloping W. |
| 55.00 | Spur, sloping W.; desc. 160 ft. over N. side. |
| 67.10 | Wash, 50 lks. wide, 4 ft. deep, drains W.; asc. 160 ft. over S. slope. |
| 80.04 | Spur, sloping SW.<br><br>The cor. of secs. 3, 4, 33, and 34.<br><br>Land, broken, main drainage is W.<br>Soil, sandy, with numerous sandstone ledges.<br>Timber, none; undergrowth, scattered black brush. |
| | From the true point for the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the township.<br><br>S. 0° 01' E., bet. secs. 1 and 2.<br><br>By triangulation desc. 120 ft. over boulder strewn S. sloping talus. |
| 10.00 | Wash, 50 lks. wide, 4 ft. deep, drains SW.; asc. 30 ft. over SW. slope. |

| Chains | |
|---|---|
| 15.00 | Spur, slopes SW. |
| 21.00 | Wash, 80 lks. wide, 4 ft. deep, drains S. 75° W.; asc. 600 ft. over N. sloping talus. |
| 40.00 | True point for the ¼ sec. cor. of secs. 1 and 2, falls on steep boulder strewn N. sloping talus, where it is impractical to set the monument. |
| 43.00 | Boulder strewn bench, bears SW. and NE. |
| 46.50 | Point selected for the witness ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>¼<br>W C<br>S2 ↑ S1<br>1956 |
| | No suitable accessories available. |
| 47.00 | Talus slope changes to W. |
| 80.00 | Point for the cor. of secs. 1, 2, 11, and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 5 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>S2 \| S1<br>S11 \| S12<br>1956 |
| | No suitable accessories available. |
| | Land, boulder strewn talus, sloping W., main drainage is W. to S<br>Soil, sandy, covered with large boulders.<br>Timber, moderate juniper; undergrowth, moderate artemisia. |
| | From the cor. of secs. 2, 3, 34, and 35, on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Asc. 50 ft. over steep, boulder strewn N. sloping talus and 180 ft. over nearly vertical ledge, facing N., bears E. and W. |
| 3.55 | Rim of ledge, faces N., bears E. and W.; asc. 280 ft. over broke ledges facing N., bears E. and W. |
| 12.70 | Nearly level top of Moss Back Mesa. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |

Portion of the Subdivision of T. 37 S., R. 15 E.

| Chains | |
|---|---|
| | T37S R15E<br>¼<br>S3 \| S2<br>1956 |
| | No suitable accessories available. |
| 50.50 | Wash, near head, drains W. |
| 75.00 | Highest point on Moss Back Mesa; desc. 200 ft. over broken ledges, facing SE., bears SW. and NE. |
| 80.00 | Point for the cor. of secs. 2, 3, 10, and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>S3 \| S2<br>S10 \| S11<br>1956 |
| | Note: corner is 200 lks. W. of nearly vertical ledge 150 ft. high, facing E., bears N. and S. |
| | Land, nearly level mesa top, main line of drainage is W.<br>Soil, sandy.<br>Timber, heavy juniper and pinon; undergrowth moderate artemisia. |
| | From the cor. of secs. 1, 2, 11, and 12. |
| | S. 89° 49' W., bet. secs. 2 and 11. |
| | Desc. 360 ft. over W. sloping talus. |
| 35.50 | Wash, 150 lks. wide, 4 ft. deep, drains S., bladed road follows the wash. |
| | Asc. 120 ft. over steep boulder strewn talus to ¼ sec. cor. |
| 39.95 | True point for the ¼ sec. cor. of secs. 2 and 11, falls in wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 41.00 | Point selected for the witness ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>¼ S 2 → WC<br>S 11<br>1956 |
| | No suitable accessories available. |
| | By triangulation asc. 760 ft. over steep boulder strewn talus sloping SE. and vertical ledge facing E., bears N. and S. |
| 57.70 | Wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 69.50 | Wash, near head, drains SE. |

| Chains | |
|---|---|
| 78.00 | Top of ascent on near vertical ledge, 150 ft. high, facing E., bears N. and S., by chaining over nearly level bench. |
| 79.90 | The cor. of secs. 2, 3, 10, and 11. |
| | Land, boulder strewn talus, E. ½ mile slope and drains W.; W. ½ mile slopes and drains E. to SE.<br>Soil, sandy, boulder strewn.<br>Timber, scattered juniper and pinon; undergrowth, scattered artemisia. |
| | From the cor. of secs. 15, 16, 21, and 22. |
| | S. 89° 46' W., bet. secs. 16 and 21. |
| | Desc. 120 ft. along boulder strewn N. side of hogback bears E. and W. |
| 9.00 | Bladed road, bears S. 70° W. and N. 70° E. |
| 11.50 | Wash, 40 lks. wide, 2 ft. deep, drains S. 70° W. |
| 27.50 | Wash, 30 lks. wide, 2 ft. deep, drains S. |
| 28.70 | Bladed road, bears SW. and NE. |
| 31.30 | Wash, 40 lks. wide, 3 ft. deep, drains S. |
| 36.60 | Bladed road, bears SW. and NE. |
| 38.50 | Wash, 30 lks. wide, 3 ft. deep, drains SE.; asc. 80 ft. over boulder strewn S. sloping talus. |
| 39.00 | Bladed road, bears N. and S. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T37S R15E<br>¼ S 16 / S21<br>1956 |
| | No suitable accessories available. |
| | Over series of SE. sloping spurs. |
| 57.00 | Wash, 20 lks. wide, 2 ft. deep, drains SE. |
| 64.50 | Wash, 30 lks. wide, 4 ft. deep, drains SE.; asc. 240 ft. over steep boulder strewn SE. sloping talus and nearly vertical ledge |
| 80.00 | True point for the cor. of secs. 16, 17, 20, and 21, falls on edge of nearly vertical ledge, 50 ft. high, facing SE., bears SW and NE., where it is impractical to set the monument. |
| | Thence 100 lks. S. 89° 46' W. |
| | Point selected for the witness cor. of secs. 16, 17, 20, and 21. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T37S R15E<br>S17 \| S16<br>S20 \| S21 WC<br>1956<br><br>No suitable accessories available.<br><br>Land, rough and broken, general drainage is S.<br>Soil, sandy, covered with rocks and boulders.<br>Timber, none; undergrowth, moderate black brush. |
| | From the true point for the cor. of secs. 16, 17, 20, and 21.<br><br>N. 0° 03' W., bet. secs. 16 and 17.<br><br>By triangulation asc. 640 ft. over steep boulder strewn S. sloping talus and near vertical ledge. |
| 26.25 | Rim of mesa, with nearly vertical ledge, 400 ft. high, facing SE., bears SW. and NE., by chaining over rolling mesa. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T37S R15E<br>¼<br>S17 \| S16<br>1956<br><br>No suitable accessories available. |
| 55.00 | N. rim of mesa, by triangulation desc. 440 ft. over broken ledges, facing NW., bears SW. and NE. |
| 72.20 | Wash, 20 lks. wide, 2 ft. deep, drains W. |
| 80.00 | Point for the cor. of secs. 8, 9, 16, and 17.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T37S R15E<br>S8 \| S9<br>S17 \| S16<br>1956<br><br>No suitable accessories available.<br><br>Land, broken, general drainage is S. on S. ½ mile and W. on N. ½ mile.<br>Soil, sandy rock strewn.<br>Timber, moderate stunted pinon and juniper; undergrowth, scattered artemisia. |
| | From the cor. of secs. 9, 10, 15, and 16. |

| Chains | |
|---|---|
| | S. 89° 47' W., bet. secs. 9 and 16. |
| | By triangulation desc. 80 ft. over W. slope. |
| 6.10 | Wash, 30 lks. wide, 4 ft. deep, drains S. to SW.; asc. 200 ft. over broken ledges, facing SE., bears SW. and NE. |
| 13.50 | Rim, bears NE. and SW.; asc. SE. slope of spur. |
| 23.00 | High point of ascent, on spur projecting S., by chaining over broken mesa top. |
| 39.95 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>¼ S 9 / S 16<br>1956 |
| | No suitable accessories available. |
| 57.50 | NW. facing rim of mesa, by triangulation desc. 260 ft. over brol ledges, facing NW, bears SW. and NE. |
| 58.50 | Wash, near head, drains NW. |
| 70.00 | Wash, 30 lks. wide, 4 ft. deep, drains N.; asc. 100 ft. over NE side of spur projecting NW. |
| 75.00 | Spur, projecting NW.; desc. 80 ft. to sec. cor. |
| 79.90 | The cor. of secs. 8, 9, 16, and 17. |
| | Land, broken, main drainage is to the NW.<br>Soil, sandy, with large areas of exposed sandstone.<br>Timber, thinly scattered juniper and pinon; undergrowth, scatte black brush. |

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| | |
|---|---|
| | From the cor. of secs. 4, 5, 32, and 33, on the S. bdy., which i marked by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 38 S., R. 15 E., surveyed concurrently under this same group. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| 5.90 | Spur, sloping W.; desc. 88 ft. over broken NW. facing ledges. |
| 16.00 | Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. 120 ft. over SW slope. |
| 36.20 | Spur, sloping W.; desc. 20 ft. over N. side of spur to ¼ sec. co |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap marked |
| | ¼<br>S32 \| S33<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| 41.10 | N. facing rim of mesa, by triangulation; desc. 300 ft. over nearly vertical ledge, bears E. and W., and 480 ft. over N. sloping boulder strewn talus. |
| 80.00 | Point for the cor. of secs. 28, 29, 32, and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T37S R15E<br>S29 \| S28<br>S32 \| S33<br>1956<br><br>No suitable accessories available.<br><br>Land, rough and broken, S. ½ mile drains SW., while the N. ½ mile drains N.<br>Soil, sandy, covered with rocks and large boulders.<br>Timber, heavy juniper and pinon on S. ½ mile; undergrowth, scattered artemisia. |
| | From the true point for the cor. of secs. 27, 28, 33, and 34.<br><br>S. 89° 47' W., bet. secs. 28 and 33. |
| 20.60 | Graded dirt road, bears N. 30° W. and S. 10° E. |
| 34.40 | Wash, near head, drains N. |
| 40.00 | Point for the ¼ sec. cor. of secs. 28 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br><br>¼ S 28<br>S 33<br>1956<br><br>No suitable accessories available. |
| 77.50 | Bladed road, bears S. 10° E. and N. 35° W. |
| 80.00 | The cor. of secs. 28, 29, 32, and 33.<br><br>Land, N. sloping boulder strewn talus, general drainage is N. to NW.<br>Soil, sandy, covered with rocks and boulders.<br>Timber, thinly scattered juniper; undergrowth, scattered black brush. |
| | From the true point for the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the township, which is witnessed S. 89° 46' W., 10.00 chs. dist., by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 38 S., R. 15 E., surveyed concurrently under this same group. |

53

Portion of the Subdivision of T. 37 S., R. 15 E.

| Chains | |
|---|---|
| | N. 0° 03' W., bet. secs. 31 and 32; asc. 250 ft. over steep S. slope. |
| 7.00 | Spur, projecting NE.; desc. 200 ft. over broken ledges, facing W., bears N. and S. |
| 9.00 | By triangulation desc. 80 ft. over NW. slope. |
| 30.00 | Wash, near head, drains W.; asc. 80 ft. over S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | ¼<br>S31 \| S32<br>1956 |
| | No suitable accessories available. |
| | By chaining asc. 40 ft. over slight S. slope. |
| 62.50 | Rim of mesa, bears N. 40° W. and S. 10° E., by triangulation desc. 400 ft. over vertical ledge facing NE., bears N. 40° W. and S. 10° E. |
| 71.50 | Base of vertical ledge; desc. 80 ft. over boulder strewn NE. sloping talus. |
| 80.00 | Point for the cor. of secs. 29, 30, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>S30 \| S29<br>S31 \| S32<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level, except N. ¼ mile, which is the N. facing, nearly vertical ledge and talus.<br>Soil, sandy.<br>Timber, heavy juniper and pinon; undergrowth, scattered artemesia. |
| | From the cor. of secs. 28, 29, 32, and 33, |
| | S. 89° 46' W., bet. secs. 29 and 32, over steep boulder strewn N. sloping talus. |
| 12.50 | Spur, sloping N. |
| 21.80 | Bladed road, bears N. and S. |
| 27.50 | Wash, 20 lks. wide, 4 ft. deep, drains N. |
| 32.10 | Wash, 40 lks. wide, 4 ft. deep, drains N. |
| 38.25 | Spur, sloping NW. |
| 39.00 | Point selected for the witness ¼ sec. cor. of secs. 29 and 32. |

Portion of the Subdivision of T. 37 S., R. 15 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br><br>¼ WC $\frac{S\ 29}{S\ 32}$ 1956<br><br>No suitable accessories available. |
| 39.95 | True point for the ¼ sec. cor. of secs. 29 and 32, falls on E. bank of wash, 20 lks. wide, 4 ft. deep, drains N. to NE., where the monument cannot be perpetuated. |
| 42.50 | Spur, sloping N. |
| 45.00 | Wash, near head, drains N. |
| 49.60 | Spur, sloping N. to NE. |
| 66.20 | Wash, near head, drains NE. |
| 79.90 | The cor. of secs. 29, 30, 31, and 32. |
| | Land, series of spurs and washes, on N. sloping boulder stewn talus.<br>Soil, sandy, strewn with rocks and boulders.<br>Timber, none; undergrowth, moderate black brush. |

General Description

The land forms of T. 37 S., R. 15 E., are the remnants of a dissected plateau, with isolated mesas, vertical ledges and steep boulder strewn talus slopes, making accessibility extremely difficult. The only remaining evidence of the plateau found in the township are four areas of relatively level land; a small isolated mesa in the N. and NE. portion of sec. 36, a narrow spur with the N. facing rim entering the township in the SE. ¼ of sec. 33 and bearing NW. to the E. boundary of sec. 32, thence W. to the W. boundary of sec. 32, then NW. to the W. boundary of the township near the point for the ¼ sec. cor. of secs. 25 and 30. The third area of relatively level land is in sec. 1 and is a spur projecting SW. from Moss Back Mesa. The fourth and largest area is a spur approximately 60 chains wide, entering the township at the N. boundary in the NW¼ of sec. 2 and bears SW. to the W. boundary of sec. 10, where it has been eroded by a tributary of Red Canyon forming two spurs, the larger continues SW. to the W. boundary of sec. 17. The smaller spur curves west from the W. boundary of sec. 10 and leaves the township at the NW¼ of sec. 7. The general range of elevation of the township is from 4500 to 6700 ft. above sea level.

Red Canyon and its tributaries, which are all intermittent streams form the drainage system of the entire township, with the exception of the S. ½ of sec. 32 and all of sec. 31, which drains S. into Moki Canyon. Red Canyon drains W. to NW. and leaves the township at the point for the ¼ sec. cor. of secs. 19 and 24. From the W. boundary Red Canyon drains west approximately 6 miles to the Colorado River.

Chains

The only soil of any quality or quantity is found on the rem nants of the plateau, being a residual sandy soil producing a heavy to moderate growth of pinon, juniper, and a moderate grow of artemisia. The rest of the surface of the land of T. 37 S., R. 15 E., is exposed sandstone, boulder and rock strewn talus, and talus composed of sandstone pebbles.

There were no permanent sources of water discovered during t progress of the survey.

There is considerable activity in the exploration for minera in the township. This has resulted in numerous unpatented clai and bladed access roads. The only graded road enters the towns at a point near the ¼ sec. cor. of secs. 3 and 34, on the S. bd and bears W. to SW. to an abandoned mine near the ¼ sec. cor. o secs. 19 and 30, thence N. to the bottom of Red Canyon. There at one time been a bladed road in the bottom of Red Canyon, of which only short sections remain, with care a jeep can be taken along the canyon floor to a point near the head in T. 37 S., R. 16 E. Because of the poor condition of the land it is littl used even for the winter grazing of cattle, which appears to be the main utilization of the land.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Dell (NMN) Cazier | Note-keeper |
| Jackie Lee Norris | Frontchainman |
| Ray D. Nielson | Flagman |
| Darwin P. Russell | Cornerman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor t

pursuance of special instructions bearing date of the 13 day of May

I have surveyed the North boundary and a portion of the subdivision of

Township 37 South, Range 15 East

of the Salt Lake Meridian, in the State of Utah, wh

represented in the foregoing field notes as having been executed by me and under my direction; an

said survey has been made in strict conformity with said instructions, the Manual of Instructions

Survey of the Public Lands of the United States, and in the specific manner described in the for

field notes.

Salt Lake City, Utah

January 4, 1957

Phil D. Smith

Phil D. Smith, Cadastral Surve

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* JUL 23 1957,

The foregoing field notes of the survey of the North boundary and a portion o

the subdivision of Tp. 37 South, Range 15 East, of the Salt Lake

meridian, Utah.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff O*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~

~~, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Of*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53505-2

4—979
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

# FIELD NOTES

of the

Survey of the North and West Boundaries

and a

Portion of the Subdivision

of

Township 37 South, Range 16 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *1955*, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *1956*

*Survey commenced* August 13, *1956*

*Survey completed* October 25, *1956*

U. S. GOVERNMENT PRINTING OFFICE 16—66770-1

# INDEX DIAGRAM

*Township* 37 South, *Range* 16 East

| | | | | | |
|---|---|---|---|---|---|
| 11<br>5 6 | 10<br>5 | 9<br>4 | 8<br>18 3 | 7<br>20 2<br>21 | 6<br>18 1<br>19 |
| 4 7 | 8 | 9<br>23 | 16 10 | 11 | 12 |
| 4 18 | 17 | 22 16<br>21 | 15 15 | 14 | 13 |
| 3 19 | 20 | 21 | 15 22 | 23 | 24 |
| 2 30<br>27 | 29<br>27 | 28<br>25 | 14 27 | 26 | 25<br>12 |
| 1 31 | 26 32 | 24 33 | 13 34 | 35 | 11 36 |

16—56770-1

Township 37 South, Range 16 East

| Chains | |
|---|---|
| | The east boundary was surveyed by Moore and Yundt in 1929 and its record appears in the official record of the range line between Rs. 16 and 17 E., T. 37 S. The south boundary was surveyed concurrently under Group 405 and its record appears in the field notes of T. 38 S., R. 16 E. |
| | The following field notes are those of the survey of the north and west boundaries and a portion of the subdivision of T. 37 S., R. 16 E. deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered State school sections. |
| | A record of the instruments, tests, adjustments, and the methods employed is recorded in the field notes of T. 38 S., R. 16 E., this group. |
| | The direction of the lines of this survey were determined generally by sustained angulation carried forward from the hour angle observation on Polaris for meridian, which appears in the field notes of T. 38 S., R. 16 E., being supplemented by other numerous Polaris observations for azimuth taken throughout the progress of the survey. |
| | The geographic position for the SE. corner of T. 37 S., R. 16 E., is latitude 37° 31' 12" N., and longitude 110° 05' 35" W., as determined by traverse from U.S.G.S. triangulation station "Rock", situated in the NW. portion of section 2, T. 37 S., R. 15 E. |
| | The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° East. |
| | Survey of the West Boundary of T. 37 S., R. 16 E. |
| | Beginning at the true point for the cor. of Ts. 37 and 38 S., Rs. 15 and 16 E., which is witnessed North, 0.20 chs., by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of T. 38 S., R. 16 E. |
| | North, bet. secs. 31 and 36. |
| | By triangulation asc. 840 ft. over S. sloping talus and vertical ledge. |
| .20 | Witness cor. for Ts. 37 and 38 S., Rs. 15 and 16 E., described above. |
| 22.00 | Wash, near head, drains SE. |
| 40.00 | True point for the ¼ sec. cor. of secs. 31 and 36, falls on sharp, steep talus, sloping S., where it is impractical to set the monument. |
| 49.00 | Top of S. rim of isolated butte, with vertical ledge, 300 ft. high, facing S., bears E. and W. |
| 66.00 | N. rim of butte, with vertical ledge, 200 ft. high, facing N., bears NW. and SE.; desc. 360 ft. over vertical ledge and N. sloping talus to sec. cor. |
| 80.00 | End of triangulation. Point for the cor. of secs. 25, 30, 31 and 36. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, wi brass cap mkd. |
| | T37S<br>R15E R16E<br>S25 S30<br>S36 S31<br>1956 |
| | No suitable accessories available. |
| | Land, rough and broken, south half drains S., north half drain Soil, sandy. Timber, moderate juniper and pinon; undergrowth, moderate blac brush. |
| | North, bet. secs. 25 and 30. |
| | Desc. over broken ledges on the S. side of Red Canyon. |
| 23.10 | Wash, 80 lks. wide, 20 ft. deep, drains N. 10° E. |
| 37.80 | Point selected for the witness ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, wi brass cap mkd. |
| | ¼<br>W C<br>T37S<br>R15E R16E<br>S 25 S 30<br>1956 |
| | No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 25 and 30, falls at th head of a small wash, drains E. to NE., where the monument can be perpetuated. |
| 42.50 | Spur, sloping NE. |
| 57.80 | Bladed road, bears E. and W. |
| 63.25 | By triangulation desc. over vertical ledge of Red Canyon, 250 high, facing N., bears E. and W. |
| 75.50 | By chaining continue to desc. 80 ft. to sec. cor. |
| 78.80 | Wash, 30 lks. wide, 3 ft. deep, drains N. 10° E. |
| 80.00 | Point for the cor. of secs. 19, 24, 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, wi brass cap mkd. |

Survey of the West Boundary of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| | T37S<br>R15E R16E<br>S24 \| S19<br>S25 \| S30<br>1956<br><br>No suitable accessories available.<br><br>Land, rough and broken S. side of Red Canyon, general N. to NE. drainage.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, moderate black-brush. |
| | North, bet. secs. 19 and 24.<br><br>Desc. 60 ft. to wash. |
| 14.00 | Red Canyon wash, 200 lks. wide, 3 ft. deep, drains W.; asc. over general S. slope. |
| 15.00 | By triangulation asc. 200 ft. along W. side of spur projecting S. |
| 35.00 | Point selected for the witness ¼ sec. cor. of secs. 19 and 24.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T37S<br>W C<br>R15E R16E<br>S 24 ↑ S 19<br>1956<br><br>No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs.19 and 24, falls on broken ledges, facing W., bears N. and S., where it is impractical to set the monument. |
| 65.00 | Wash, near head, drains W. to SW. |
| 68.00 | N. rim of Red Canyon, 200 ft. high, bears NW. and SE. |
| 70.75 | By chaining asc. 40 ft. to sec. cor. |
| 78.00 | Wash, near head, drains W. to SW. |
| 80.00 | Point for the cor. of secs. 13, 18, 19 and 24.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T37S<br>R15E R16E<br>S13 \| S18<br>S24 \| S19<br>1956<br><br>No suitable accessories available. |

| Chains | |
|---|---|
| | Land, rough and broken N. side of Red Canyon, general S. to SW. drainage.<br>Soil, sandy, boulder strewn over most of the mile.<br>Timber, moderate juniper and pinon; undergrowth, scattered silv leaf and blackbrush. |
| | North, bet. secs. 13 and 18. |
| | Asc. 200 ft. over S. slope. |
| 8.20 | Bladed road, bears N. 10° E. and S. 10° W. |
| 17.00 | Spur, sloping W. |
| 32.40 | Spur, sloping W. to SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, wit brass cap mkd.<br>¼<br>S 13 \| S 18<br>1956 |
| | No suitable accessories available. |
| | Desc. 200 ft. along general W. slope. |
| 74.00 | Bladed road, bears S. 10° E. and West. |
| 77.00 | Point selected for the witness cor. of secs. 7, 12, 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, wit brass cap mkd.<br>T37S<br>W C<br>R15E R16E<br>S12 \| S7<br>S13 \| S18<br>1956 |
| | No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 7, 12, 13 and 18, falls on bro ledge, facing N., bears E. and W., where it is impractical to s the monument. |
| | Land, rough and broken, general W. drainage.<br>Soil, sandy boulder strewn.<br>Timber, moderate juniper and pinon; undergrowth, scattered blac brush and silver leaf. |
| | North, bet. secs. 7 and 12. |
| | Desc. over broken ledges facing N., bears E. and W. |
| 4.00 | Wash, 30 lks. wide, 10 ft. deep, drains W. |

Survey of the West Boundary of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| 33.10 | Bladed road, bears N. 40° W. and S. 50° E. |
| 40.00 | True point for the ¼ sec. cor. of secs. 7 and 12, falls on large sandstone boulder, 6x4x3 ft., where it is impractical to set the monument. |
| 43.00 | Point selected for the witness ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.. |
| | T37S<br>R15E R16E<br>¼<br>S 12 ↓ S 7<br>W C<br>1956 |
| | No suitable accessories available. |
| 60.70 | Bladed road, bears N. and S. 10° W. |
| 67.60 | S. rim of wash, bears SW. and NE. |
| 70.00 | Wash, 60 ft. deep, drains SW. |
| 72.00 | N. rim of wash. |
| 73.00 | Improved access road, bears SW. and NE. |
| 78.00 | Wash, 50 lks. wide, 10 ft. deep, drains SE. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12, falls on steep S. sloping clay spur, where the monument cannot be perpetuated. |
| | Land, south half nearly level, north half steep eroded talus, general W. to SW. drainage.<br>Soil, sandy.<br>Timber, scattered juniper; undergrowth, scattered blackbrush. |
| | North, bet. secs. 1 and 6. |
| | Over steep boulder strewn S. sloping talus. |
| 6.00 | Point selected for the witness cor. of secs. 1, 6, 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T37S<br>R15E R16E<br>S1 \| S6<br>S12 \| S7<br>↓<br>W C<br>1956 |
| | No suitable accessories available. |
| | By triangulation asc. 1000 ft. over S. sloping talus and vertical ledge, facing SE. |

| Chains | |
|---|---|
| 30.00 | Wash, near head, drains E. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6, falls on near vert ledge, where it is impossible to set the monument. |
| 47.00 | Wash, near head, drains SE. |
| 49.00 | Rim of Moss Back Mesa, with vertical ledge, 600 ft. high, faci SE., bears SW. and NE. |
| 49.90 | Point selected for the witness ¼ sec. cor. of secs. 1 and 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut i solid sandstone, and supported in a mound of stone, 4 ft. base top of post, with brass cap mkd. |
| | T37S<br>R15E R16E<br>¼<br>S 1 \| S 6<br>W C<br>1956 |
| | No suitable accessories available. |
| | By chaining over nearly level mesa. |
| 68.50 | SE. rim of canyon, bears SW. and NE.; desc. over broken ledges |
| 80.00 | Point for the cor. of Ts. 36 and 37 S., Rs. 15 and 16 E. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, wi brass cap mkd. |
| | T36S<br>R15E R16E<br>S36 \| S31<br>S1 \| S6<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Land, south half rough and broken with S. to SE. drainage, nor half nearly level with NW. drainage.<br>Soil, sandy boulder strewn and numerous sandstone outcrops.<br>Timber, moderate mixed juniper and pinon; undergrowth, scatter blackbrush. |

## Survey of the North Boundary of T. 37 S., R. 16 E.

Beginning at the cor. of Ts. 36 and 37 S., R. 16 E., which is r by an iron post, 3 ins. diam., firmly set, mkd. and witnessed a described in the official record of the survey of the range lin bet. Rs. 16 and 17 E., T. 37 S. From this point the closing co of Ts. 36 and 37 S., R. 17 E., mkd. by an iron post, 3 ins. dia set, mkd. and witnessed as described in the official record, be South, 3.86 chs. dist.

N. 89° 50' W., bet. secs. 1 and 36.

| Chains | |
|---|---|
| | Over nearly level land; desc. 80 ft. to ¼ sec. cor. |
| 14.20 | Wash, 50 lks. wide, 6 ft. deep, drains SW. |
| 23.50 | Wash, 50 lks. wide, 4 ft. deep, drains SW. |
| 32.40 | Wash, 30 lks. wide, 5 ft. deep, drains SW. |
| 36.00 | Wash, 20 lks. wide, 5 ft. deep, drains SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T36S R16E<br>¼ S 36 / S 1<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Asc. 155 ft. along spur projecting E., from a sandstone pinnacle, "The Needle", 100 ft. high, 150 lks. diam. |
| 59.10 | S. side center of pinnacle; desc. 145 ft. along spurs projecting W. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T36S R16E<br>S35 \| S36<br>S2 \| S1<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level, general S. to SW. drainage.<br>Soil, sandy.<br>Timber, scattered juniper and pinon; undergrowth, moderate artemisia. |
| | N. 89° 50' W., bet. secs. 2 and 35. |
| | Over nearly level land. |
| .50 | Spur, sloping SW.; desc. 24 ft. |
| 7.00 | Wash, near head, drains SW. |
| 38.50 | Wash, 150 lks. wide, 3 ft. deep, drains SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 35, falls on W. bank of small wash, drains SW., where the monument cannot be perpetuated. |
| 40.50 | Point selected for the witness ¼ sec. cor. of secs. 2 and 35. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, wit brass cap mkd. |
| | T36S R16E<br>¼ S 35 / S 2 → WC<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Desc. 15 ft. |
| 60.00 | Wash, 100 lks. wide, 3 ft. deep, drains NW.; desc. 34 ft. to sec. cor. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T36S R16E<br>S34 \| S35<br>S3 \| S2<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Land, rolling canyon floor, general NW. drainage.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, scattered artemisia. |
| | N. 89° 50' W., bet. secs. 3 and 34. |
| | Over nearly level land. |
| 1.00 | Small wash, drains NE. |
| 1.40 | Bladed road, bears N. 35° W. and S. 35° E. |
| 5.20 | Wash, drains NE.; asc. 360 ft. by triangulation. |
| 6.00 | Improved road, bears N. 30° W. and S. 30° E. |
| 9.50 | Wash, drains NE. |
| 16.10 | Wash, 40 lks. wide, 4 ft. deep, drains NE. |
| 32.60 | Lower rim of Moss Back Mesa, with vertical ledge 240 ft. high, facing E., bears N. and S.; by chaining asc. over broken ledges |
| 39.00 | Bladed road, bears S. 40° E. and N. 40° W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, wit brass cap mkd. |

Survey of the North Boundary of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| | T36S R16E<br>¼ S 34 / S 3<br>T37S<br>1956 |
| | No suitable accessories available. |
| 41.30 | By triangulation asc. 280 ft. over broken ledges, facing NE., bears NW. and SE. |
| 57.80 | Wash, near head, drains N. |
| 60.00 | Spur, sloping N. |
| 64.00 | Wash, near head, drains N. |
| 67.20 | Wash, 50 lks. wide, 3 ft. deep, drains NE. |
| 72.50 | Small wash, drains NE. |
| 77.50 | Spur, sloping NE.; by chaining asc. 20 ft. to sec. cor. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T36S R16E<br>S33 \| S34<br>S4 \| S3<br>T37S<br>1956 |
| | No suitable accessories available. |
| | Land, rough and broken, series of spurs and washes, general N. to NE. drainage and slope.<br>Soil, sandy, boulder strewn.<br>Timber, thinly scattered juniper and pinon; undergrowth, moderate growth of blackbrush and silver leaf. |
| | N. 89° 50' W., bet. secs. 4 and 33. |
| | By triangulation asc. 720 ft. over steep, boulder strewn talus and vertical ledge. |
| 36.10 | Rim of Moss Back Mesa, with vertical ledge, 400 ft. high, facing NE., bears NW. and SE.; by chaining desc. over broken ledges to ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T36S R16E<br>¼ S 33 / S 4<br>T37S<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| | Asc. over broken ledges at head of small canyon, drains SW. |
| 47.90 | W. rim of small canyon, facing SE., curves SW. to SE. |
| 65.00 | Top of ascent on near level mesa top. |
| 72.77 | Top of vertical ledge, 50 ft. high, facing W., bears SW. and N desc. 195 ft. to sec. cor. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |

T36S R16E
S32 | S33
S5 | S4
T37S
1956

No suitable accessories available.

Land, east half extremely broken, drains N. to NE., west half nearly level mesa top, drains SW.
Soil, sandy, east half is boulder strewn.
Timber, heavy stunted juniper and pinon on mesa top; undergrow scattered blackbrush.

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| | |
|---|---|
| | N. 89° 50' W., bet. secs. 5 and 32. |
| | Over broken land; desc. 150 ft. |
| 10.00 | Head of wash, drains NW.; asc. 125 ft. over NE. slope. |
| 29.10 | E. rim of vertical canyon wall, facing NW., bears SW. and NE.; by triangulation desc. 240 ft. over canyon wall and broken led to sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, wi brass cap mkd. |

T36S R16E
¼ S 32
S 5
T37S
1956

No suitable accessories available.

Continue to desc. 400 ft. over broken ledges and talus.

| | |
|---|---|
| 69.20 | Wash, 150 lks. wide, 10 ft. deep, drains SW.; asc. 120 ft. over SE. slope to sec. cor. |
| 80.00 | True point for the cor. of secs. 5, 6, 31 and 32, falls on E. side of steep talus slope sloping S., where it is impractical t set the monument. |

Land, broken, general SW. drainage.
Soil, sandy with sandstone outcrops.
Timber, scattered juniper; undergrowth, scattered blackbrush.

Survey of the North Boundary of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| | N. 89° 50' W., bet. secs. 6 and 31. |
| | Over S. sloping talus. |
| .10 | Point selected for the witness cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T36S R16E<br>S31 \| S32 → WC<br>S6 \| S5<br>T37S<br>1956 |
| | No suitable accessories available. |
| 19.20 | Head of wash, drains S. |
| 34.50 | Wash, near head, drains S. |
| 40.00 | True point for the ¼ sec. cor. of secs. 6 and 31, falls on steep S. sloping talus, where the monument cannot be perpetuated. |
| | By triangulation asc. 240 ft. over near vertical wall of canyon, facing SE., bears SW. and NE. |
| 47.50 | W. rim of canyon wall, bears NE. and SW.; by chaining asc. 200 ft. over SE. slope. |
| 48.00 | Point selected for the witness ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T36S R16E<br>¼ S 31 → WC<br>S 6<br>T37S<br>1956 |
| | No suitable accessories available. |
| 50.00 | Head of wash, drains SE. |
| 70.50 | Rim of canyon, bears NE. and SW.; desc. 130 ft. over NW. facing broken ledges. |
| 77.66 | The cor. of Ts. 36 and 37 W., Rs. 15 and 16 E. |
| | Land, rough and broken, general S. to SE. drainage.<br>Soil, sandy with large areas covered with boulders.<br>Timber, moderate juniper and pinon; undergrowth, scattered artemisia. |

Survey of a Portion of the Subdivision of T. 37 S., R. 16 E.

From the cor. of secs. 1, 2, 35 and 36, on the south boundary of the township, which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of T. 38 S., R. 16 E., this group.

| Chains | |
|---|---|
| | N. 0° 01' W., bet. secs. 35 and 36. |
| | By triangulation asc. 720 ft. over broken and vertical ledges. |
| 39.70 | Top of vertical ledge 70 ft. high, facing S., bears E. and W.; thence by chaining. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandst and supported in a mound of stone, 4 ft. base to top of post, brass cap mkd.<br>¼<br>S 35 \| S 36<br>1956 |
| | No suitable accessories available. |
| 61.30 | Bladed road, bears E. and W. |
| 73.30 | Bladed road, bears N. 55° E. and S. 55° W. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandst and supported in a mound of stone, 4 ft. base to top of post, brass cap mkd.<br>T37S R16E<br>S26 \| S25<br>S35 \| S36<br>1956 |
| | Corner is located 20 lks. E. of vertical ledge, 100 ft. high, facing W., bears NE. and SW. |
| | Land, south half vertical and broken ledges, drains S. to SW., north half nearly level mesa top, drains W.<br>Soil, sandy, south half boulder strewn.<br>Timber, heavy juniper and pinon on mesa top; undergrowth, moderate blackbrush. |
| | From the cor. of secs. 25, 30, 31 and 36, on the east boundary the township, which is mkd. by an iron post, 2 ins. diam., fir set, mkd. and witnessed as described in the official record of survey of the range line bet. Rs. 16 and 17 E., T. 37 S. |
| | N. 89° 49' W., bet. secs. 25 and 36. |
| | Desc. 120 ft. over nearly level Moss Back Mesa to the ¼ sec. c |
| .50 | Small wash, drains SW. |
| 8.75 | Bladed road, bears N. 15° E. and S. 15° W. |
| 23.60 | Bladed road, bears N. 40° E. and S. 45° W. |
| 27.00 | Bladed road, bears N. 50° W. and S. 55° E. |
| 28.00 | Wash, 20 lks. wide, 2 ft. deep, drains N. 85° W. |

Survey of a Portion of the Subdivision of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| 37.00 | Same wash, 40 lks. wide, 4 ft. deep, drains NW. from N. 85° E. |
| 40.04 | Point for the ¼ sec. cor. of secs. 25 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>¼ S 25 / S 36<br>1956<br><br>No suitable accessories available. |
| 42.20 | Same wash, 50 lks. wide, 10 ft. deep, drains SW. |
| 45.20 | Bladed road, bears N. 40° E. and S. 40° W. |
| 47.00 | Bladed road, bears N. 50° W. and S. 50° E. |
| 66.70 | Wash, 30 lks. wide, 4 ft. deep, drains W. to NW. |
| 80.08 | The cor. of secs. 25, 26, 35 and 36.<br><br>Land, level Moss Back Mesa, general W. drainage.<br>Soil, sandy.<br>Timber, heavy juniper and pinon; undergrowth, moderate blackbrush. |
| | From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the township, which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the survey of T. 38 S., R. 16 E.<br><br>N. 0° 02' W., bet. secs. 33 and 34.<br><br>Desc. 200 ft. over steep N. sloping talus and N. facing broken ledges. |
| 12.00 | Valley floor of Red Canyon, drains W. to NW. |
| 36.90 | Wash, 50 lks. wide, 2 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and a collar of stone, with brass cap mkd.<br><br>T37S R16E<br>¼<br>S 33 \| S 34<br>1956<br><br>No suitable accessories available. |
| 51.00 | Wash, 50 lks. wide, 2 ft. deep, drains SW. |
| 63.70 | Wash, 45 lks. wide, 3 ft. deep, drains SW.; asc. 100 ft. over S. slope. |
| 73.00 | Point selected for the witness cor. of secs. 27, 28, 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | T37S R16E<br>W C<br>S28 \| S27<br>S33 \| S34<br>1956 |
| | No suitable accessories available. |
| | Asc. 240 ft. over steep SE. sloping talus and SE. facing brok ledges. |
| 80.00 | True point for the cor. of secs. 27, 28, 33 and 34, falls on rocky S. sloping talus where the monument cannot be perpetuat |
| | Land, level stream valley floor, general W. drainage.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, scattered bl brush. |
| | N. 0° 02' W., bet. secs. 27 and 28. |
| 5.00 | Top of ascent on isolated butte, with vertical ledge, 120 ft. high, facing SE., bears SW. and NE.; thence along W. edge of |
| 20.00 | NW. rim of butte; desc. 120 ft. |
| 26.00 | Spur, sloping NW. from butte; desc. 160 ft. over N. sloping t |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, w brass cap mkd. |
| | T37S R16E<br>¼<br>S 28 \| S 27<br>1956 |
| | No suitable accessories available. |
| | Desc. 40 ft. over nearly level floor of Red Canyon. |
| 53.00 | Wash, 70 lks. wide, 4 ft. deep, drains NW. |
| 55.00 | Wash, 50 lks. wide, 3 ft. deep, drains NW. |
| 60.00 | Wash, 40 lks. wide, 3 ft. deep, drains NW. |
| 67.10 | Wash, 100 lks. wide, 6 ft. deep, drains NW. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and supported in a mound of stone, 4 base to top of post, with brass cap mkd. |
| | T37S R16E<br>S21 \| S22<br>S28 \| S27<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| | Land, nearly level.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, scattered black-brush. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over nearly level land. |
| 21.10 | Wash, 100 lks. wide, 8 ft. deep, drains W. |
| 35.30 | Wash, 30 lks. wide, 2 ft. deep, drains W. to SW. |
| 39.00 | Point selected for the witness ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T37S R16E<br>¼<br>W C<br>S 21 ↑ S 22<br>1956 |
| | No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 21 and 22, falls on S. edge of wash, 40 lks. wide, 3 ft. deep, drains W., where the monument cannot be perpetuated. |
| 40.60 | Wash, 40 lks. wide, 3 ft. deep, drains W. to SW. |
| 44.00 | Wash, 30 lks. wide, 3 ft. deep, drains W. to SW. |
| 52.50 | Wash, 30 lks. wide, 8 ft. deep, drains SW. |
| 55.00 | Wash, 25 lks. wide, 6 ft. deep, drains SW. |
| 79.60 | Wash, 30 lks. wide, 2 ft. deep, drains SW. |
| 80.00 | True point for the cor. of secs. 15, 16, 21 and 22, falls on large boulder, 10 ft. diam., where it is impractical to set the monument. |
| | Land, nearly level.<br>Soil, sandy.<br>Timber, scattered juniper; undergrowth, scattered blackbrush. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| .95 | Point selected for the witness cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T37S R16E<br>S16 \| S15<br>S21 \| S22<br>↓<br>W C<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Asc. 240 ft. over S. sloping rock slide. |
| 6.00 | Wash, near head, drains W. |
| 16.90 | Wash, 30 lks. wide, 3 ft. deep, drains S. 10° W. |
| 22.40 | Bench, bears NW. and SE.; asc. 160 ft. over broken ledges to sec. cor. |
| 29.30 | Spur, sloping SW. |
| 37.00 | Point selected for the witness ¼ sec. cor. of secs. 15 and 16 |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, w brass cap mkd. |

T37S R16E

¼

W | C

S 16 | S 15

1956

| | |
|---|---|
| | No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 15 and 16, falls on s rocky SW. slope, where it is impractical to set the monument. |
| 45.00 | Wash, 100 lks. wide, 4 ft. deep, drains W. to SW. |
| 46.20 | Nearly vertical ledge, 50 ft. high, bears NW. and SE., faces |
| 59.50 | Wash, 30 lks. wide, 3 ft. deep, drains W. |
| 72.90 | Bladed road, bears N. and SE.; thence along road. |
| 76.10 | Spur, sloping W. |
| 77.00 | Wash, near head, drains W. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, wi brass cap mkd. |

T37S R16E

| S9 | S10 |
|---|---|
| S16 | S15 |

1956

| | |
|---|---|
| | No suitable accessories available. |
| | Land, south half broken, strewn with large boulders, north half nearly level, general W. to SW. drainage. Soil, sandy, south half strewn with boulders. Timber, thinly scattered juniper; undergrowth, none. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over nearly level mesa bench. |

Survey of a Portion of the Subdivision of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| 2.00 | Bladed road, bears S. and N. 10° W. |
| 4.00 | Wash, 20 lks. wide, 4 ft. deep, drains W. |
| 7.90 | Same road, bears S. 40° W. and N. 45° E. 1 chain, thence N. |
| 15.90 | Recross road, bears N. and S. |
| 38.20 | Wash, near head, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10, on E. side of road. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T37S R16E<br>¼<br>S 9 \| S 10<br>1956<br><br>No suitable accessories available. |
| 45.00 | Same road, bears S. 40° W. and N. 40° E. |
| 51.70 | Wash, 30 lks. wide, 3 ft. deep, drains W. |
| 55.00 | Wash, near head, drains W. |
| 58.00 | Same road, bears N. 15° W. and S. 15° E. |
| 63.00 | Wash, 30 lks. wide, 1 ft. deep, drains W. to SW.; asc. 120 ft. |
| 68.60 | Top of ascent on isolated butte, 200 lks. diam.; desc. 160 ft. over steep talus sloping N. |
| 75.80 | Improved road, bears N. 20° W. and S. 30° E. |
| 79.50 | Point selected for the witness cor. of secs. 3, 4, 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T37S R16E<br>W C<br>S4 \| S3<br>S9 \| S10<br>1956<br><br>No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 3, 4, 9 and 10, falls on steep, rocky W. side of spur, sloping SE., where it is impractical to set the monument. |
| | Land, nearly level.<br>Soil, sandy, rocky strewn over much of the mile.<br>Timber, moderate juniper and pinon; undergrowth, scattered black-brush. |

| Chains | |
|---|---|
| | N. 0° 04' E., bet. secs. 3 and 4. |
| | By triangulation asc. 520 ft. over steep boulder strewn S. sl talus and vertical ledge facing S., bears E. and W., to the t Moss Back Mesa. |
| 20.68 | Top of ascent on Moss Back Mesa; by chaining asc. 24 ft. over nearly level mesa top to the ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, w brass cap mkd. |
| | T37S R16E<br>¼<br>S 4 \| S 3<br>1956 |
| | No suitable accessories available. |
| 44.00 | N. rim of Moss Back Mesa; by triangulation desc. 400 ft. over 240 ft. vertical ledge, facing NE., bears NW. and SE. and ste boulder strewn N. sloping talus. |
| 65.35 | By chaining continue to desc. over eroded boulder strewn N. sloping talus. |
| 76.00 | Wash, near head, drains NE. |
| 79.90 | The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the town |
| | Land, steep boulder strewn talus.<br>Soil, sandy, boulder strewn.<br>Timber, moderate to scattered juniper; undergrowth, moderate blackbrush and silver leaf. |
| | From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 1 and 2. |
| | Over nearly level land. |
| 2.50 | N. edge of desert pavement, bears NW. and SE. |
| 10.90 | S. edge of desert pavement, bears NW. and SE.; enter moderate to scattered juniper and pinon, bears NW. and SE. |
| 17.90 | Wash, 50 lks. wide, 2 ft. deep, drains SW. |
| 27.50 | Wash, 70 lks. wide, 3 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T37S R16E<br>¼<br>S 2 \| S 1<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| 43.00 | Wash, near head, drains S. 10° W. |
| 46.95 | Wash, 125 lks. wide, 5 ft. deep, drains SW. |
| 52.20 | Wash, in Fry Canyon, 80 lks. wide, 4 ft. deep, drains W.; asc. 72 ft. over N. slope. |
| 77.00 | Base of N. sloping talus; asc. 50 ft. over rocky slope to sec. cor. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S2 \| S1<br>S11 \| S12<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level valley floor of Fry Canyon, general NW. drainage.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, moderate blackbrush. |
| | From the cor. of secs. 1,6, 7 and 12, on the E. bdy. of the township, which is mkd. by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record of the survey of the range line bet. Rs. 16 and 17 E., T. 37 S. |
| | N. 89° 54' W., bet. secs. 1 and 12. |
| | Over nearly level land. |
| 7.10 | Wash, near head, drains S. to SW. |
| 16.20 | Wash, near head, drains S. |
| 38.00 | Wash, in Fry Canyon, 100 lks. wide, 6 ft. deep, drains NW. |
| 40.07 | Point for the ¼ sec. cor. of secs. 1 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T37S R16E<br>¼ S 1<br>S 12<br>1956 |
| | No suitable accessories available. |
| | Asc. over NE. slope of spur. |
| 44.00 | Spur, sloping NW. |
| 52.35 | Wash, 100 lks. wide, 3 ft. deep, drains N. 10° W. |

| Chains | | Bearing |
|---|---|---|
| 59.80 | Wash, 30 lks. wide, 3 ft. deep, drains NW. | |
| 70.50 | Wash, 60 lks. wide, 3 ft. deep, drains N. | |
| 80.14 | The cor. of secs. 1, 2, 11 and 12. | |
| | Land, nearly level, general N. to NW. drainage.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, scattered artemisia. | |

From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the township.

S. 0° 01' E., bet. secs. 2 and 3.

Over series of spurs and washes, sloping and draining NE.

| | |
|---|---|
| 3.70 | Main mine access road, bears NW. 1¼ miles to junction with St Highway 95, and SE. to the mines. |
| 22.40 | Drainage and slope changes to E. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 3, falls in was 30 lks. wide, 2 ft. deep, drains E., where the monument canno be perpetuated. |
| 41.60 | Point selected for the witness ¼ sec. cor. of secs. 2 and 3. |

Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, w brass cap mkd.

T37S R16E
W C
¼
S 3 | S 2
1956

No suitable accessories available.

| | |
|---|---|
| 45.00 | Spur, sloping E. |
| 46.50 | Wash, 40 lks. wide, 4 ft. deep, drains NE. |
| 47.20 | Bladed road, bears NE. to main road and SW. approximately 15 to end. |
| 71.90 | Wash, 30 lks. wide, 4 ft. deep, drains NE. |
| 75.80 | Point selected for the witness cor. of secs. 2, 3, 10 and 11. |

Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, wi brass cap mkd.

T37S R16E
S3 | S2
S10 | S11
W C
1956

Survey of a Portion of the Subdivision of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| | No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 2, 3, 10 and 11, falls in wash, 40 lks. wide, 4 ft. deep, drains N. 10° E., where the monument cannot be perpetuated. |
| | Land, boulder strewn talus, general N. to NE. drainage.<br>Soil, sandy, boulder strewn.<br>Timber, scattered juniper; undergrowth, thinly scattered artemisia. |
| | From the cor. of secs. 1, 2, 11 and 12. |
| | N. 89° 52' W., bet. secs. 2 and 11. |
| | Over N. sloping talus. |
| 21.00 | Wash, near head, drains NW.; E. edge of nearly level stream valley floor. |
| 27.00 | Wash, near head, drains NW. |
| 40.05 | Point for the ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>T37S R16E<br>¼ S 2 / S 11<br>1956 |
| | No suitable accessories available. |
| 41.10 | Wash, 40 lks. wide, 5 ft. deep, drains N. |
| 46.50 | Improved access road, bears NW., 3 miles to State Highway 95 and SE. to mines. |
| 75.00 | Base of boulder strewn talus, sloping N. to NE.; asc. 320 ft. |
| 78.00 | Top of ascent on spur, projecting N.; desc. 120 ft. to sec. cor. |
| 80.10 | True point for the cor. of secs. 2, 3, 10 and 11. |
| | Land, nearly level with spurs projecting N. into the land on both ends of the mile, general N. drainage.<br>Soil, sandy.<br>Timber, moderate juniper; undergrowth, scattered blackbrush and greasewood. |
| | From the true point for the cor. of secs. 15, 16, 21 and 22. |
| | N. 89° 51' W., bet. secs. 16 and 21. |
| | By triangulation asc. 280 ft. over talus and vertical ledge. |
| 2.80 | Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. over steep SE. slope. |

| Chains | |
|---|---|
| 19.90 | Rim on spur, projecting S., with vertical ledge, 100 ft. high facing E., bears N. and S.; by chaining over nearly level top spur. |
| 35.80 | W. rim of spur, with vertical ledge 100 ft. high, facing SW., bears NW. and SE.; by triangulation desc. 120 ft. over ledge steep W. sloping talus. |
| 40.00 | True point for the ¼ sec. cor. of secs. 16 and 21, falls on s rocky talus, sloping W., where the monument cannot be perpetu |
| 46.00 | Wash, 100 lks. wide, 3 ft. deep, drains NW. |
| 49.50 | Point selected for the witness ¼ sec. cor. of secs. 16 and 21 |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, w brass cap mkd. |
| | T37S R16E<br>¼ S 16 / S 21 → WC<br>1956 |
| | No suitable accessories available. |
| 52.80 | Wash, 150 lks. wide, 3 ft. deep, drains NW. |
| 61.60 | By chaining desc. 120 ft. over rolling sand hills. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, w brass cap mkd. |
| | T37S R16E<br>S17 \| S16<br>S20 \| S21<br>1956 |
| | No suitable accessories available. |
| | Land, rough, mostly talus, drainage is E. and SE. in east hal W. to NW. in west half mile.<br>Soil, sandy, strewn with sandstone rocks.<br>Timber, scattered juniper; undergrowth, scattered blackbrush. |
| | From the cor. of secs. 16, 17, 20 and 21. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over low rolling spurs in stream valley. |
| 4.70 | Wash, 150 lks. wide, 3 ft. deep, drains SW. |
| 14.30 | Same wash, 125 lks. wide, 4 ft. deep, drains S. 10° E. |
| 20.40 | Same wash, 200 lks. wide, 4 ft. deep, drains S. 10° W. from NE |
| 32.70 | By triangulation asc. 400 ft. over S. sloping talus and S. fac vertical ledge. |

Survey of a Portion of the Subdivision of T. 37 S., R. 16 E.

| Chains | |
|---|---|
| 40.00 | True point for the ¼ sec. cor. of secs. 16 and 17, falls on steep rocky talus, sloping S., where it is impractical to set the monument. |
| 42.50 | Rim of vertical ledge, 100 ft. high, facing SE., curves NE. and SW.; by chaining over near level mesa top. |
| 43.50 | Point selected for the witness ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>¼<br>S 17 \| S 16<br>W C<br>1956 |
| | No suitable accessories available. |
| 56.60 | Wash, 50 lks. wide, 4 ft. deep, drains SE. |
| 65.73 | S. rim of wash, bears NW. and SE. |
| 69.00 | Wash, 10 ft. deep, drains S. 85° E. |
| 72.90 | N. rim of wash, bears NW. and SE. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S8 \| S9<br>S17 \| S16<br>1956 |
| | No suitable accessories available. |
| | Land, south half rolling stream valley, north half mesa top, main drainage is SW.<br>Soil, sandy.<br>Timber, moderate to scattered juniper; undergrowth, scattered artemisia. |
| | From the cor. of secs. 9, 10, 15 and 16. |
| | N. 89° 49' W., bet. secs. 9 and 16. |
| | By triangulation desc. 840 ft. over broken and vertical ledges, facing W., bears N. and S. |
| 17.00 | Wash, 50 lks. wide, 4 ft. deep, drains S. 70° W. |
| 26.38 | Point selected for the witness point of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | W P<br>S 9<br>S 16<br>1956 |
| | No suitable accessories available. |
| 30.50 | Wash, 70 lks. wide, 5 ft. deep, drains N. 60° W. |
| 40.03 | True point for the ¼ sec. cor. of secs. 9 and 16, falls on s rocky N. side of sandstone spur, projecting W., where it is impractical to set the monument. |
| 50.60 | Wash, 150 lks. wide, 10 ft. deep, drains S. to SW.; asc. 360 over nearly vertical E. facing ledges. |
| 63.00 | Top of ascent on sandstone spur sloping SE.; by chaining alon broken N. edge of small canyon. |
| 63.52 | Point selected as witness point for secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, w brass cap mkd. |
| | W P<br>S 9<br>S 16<br>1956 |
| | No suitable accessories available. |
| 80.06 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, rough and broken, main drainage is S. to SW.<br>Soil, sandy, with numerous sandstone ledges and talus slopes.<br>Timber, moderate to scattered juniper and pinon; undergrowth, scattered artemisia. |
| | From the cor. of secs. 4, 5, 32 and 33, on the S. boundary of township, which is mkd. by an iron post, 2½ ins. diam., firml mkd. and witnessed as described in the field notes of the sur T. 38 S., R. 16 E. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Along a nearly level spur, projecting NW. |
| 10.10 | S. rim of Red Canyon; by triangulation desc. 440 ft. over near vertical ledges, facing N., bears NW. and SE. and steep rocky sloping talus. |
| 30.00 | Wash, 50 lks. wide, 4 ft. deep, drains NE. |
| 31.10 | By chaining over nearly level Red Canyon floor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, wi brass cap mkd. |
| | ¼<br>S 32 \| S 33<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Desc. 80 ft. to wash. |
| 77.35 | Wash, 150 lks. wide, 15 ft. deep, drains NW.; asc. 40 ft. over SW. slope. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S29 \| S28<br>S32 \| S33<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level floor of Red Canyon, main drainage is NW.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, moderate artemisia. |
| | From the true point for the cor. of secs. 27, 28, 33 and 34. |
| | N. 89° 50' W., bet. secs. 28 and 33. |
| | Asc. 280 ft. over steep, rocky SE. sloping talus and SE. facing ledges. |
| 7.00 | E. edge of isolated mesa, with vertical ledge, 75 ft. high, bears SW. and NE. and faces SE.; thence over near level top. |
| 17.00 | W. edge of isolated mesa, with vertical ledge 100 ft. high, facing NW., bears SW. and NE.; desc. 320 ft. over ledge and steep rocky talus. |
| 40.00 | Point for the ¼ sec. cor. of secs. 28 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | ¼ S 28 / S 33<br>1956 |
| | No suitable accessories available. |
| 42.70 | Spur, sloping NW. |
| 80.00 | The cor. of secs. 28, 29, 32 and 33. |
| | Land, east half narrow isolated mesa, west half nearly level canyon floor, main drainage is NW.<br>Soil, sandy.<br>Timber, scattered juniper and pinon; undergrowth, moderate black-brush. |

| Chains | |
|---|---|
| | From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township, which is mkd. by an iron post, 2½ ins. diam., firml set, mkd. and witnessed as described in the field notes of th survey of T. 38 S., R. 16 E. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Asc. 400 ft. over boulder strewn, deeply eroded talus sloping from narrow mesa. |
| 3.00 | Bladed road, bears N. 50° W. and S. 10° W. |
| 11.30 | Wash, 30 lks. wide, 4 ft. deep, drains S. to SE. |
| 16.00 | Same wash, drains SW. |
| 19.70 | Bladed road, bears S. 10° W. and N. 50° E. |
| 37.00 | Spur, sloping S. to SE. |
| | Point selected for the witness ¼ sec. cor. of secs. 31 and 32 |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, w brass cap mkd. |
| | ¼<br>W C<br>S 31 ↑ S 32<br>1956 |
| | No suitable accessories available. |
| 38.00 | Same wash, near head, drains SE. |
| 40.00 | True point for the ¼ sec. cor. of secs. 31 and 32, falls on n sharp sided spur, sloping S. to SE., where the monument cannot perpetuated. |
| 43.80 | Spur, sloping E. to SE. |
| 45.00 | Drainage and slope change to N. and NE. |
| 50.40 | Spur, sloping E. to NE.; desc. 16 ft. over N. slope. |
| 56.40 | Wash, near head, drains NE.; asc. SE. slope. |
| 61.50 | Spur, sloping N.; desc. 180 ft. to sec. cor. |
| 80.00 | Spur, sloping W. |
| | Point for the cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, wi brass cap mkd. |
| | T37S R16E<br>S30 \| S29<br>S31 \| S32<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Land, eroded, boulder strewn talus, south half drains S., north half drains N. to NW.<br>Soil, sandy, covered with rocks and boulders.<br>Timber, moderate juniper and pinon; undergrowth, moderate artemisia. |
| | From the cor. of secs. 28, 29, 32 and 33. |
| | N. 89° 51' W., bet. secs. 29 and 32. |
| | Over nearly level canyon floor. |
| 5.00 | Wash, 80 lks. wide, 15 ft. deep, drains NW. |
| 25.00 | Wash, 60 lks. wide, 8 ft. deep, drains N. |
| 37.50 | Point selected for the witness ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼ WC $\frac{S\ 29}{S\ 32}$ 1956 |
| | No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 29 and 32, falls in small wash, drains N., where the monument cannot be perpetuated. |
| | Asc. 120 ft. over steep, boulder strewn N. sloping talus. |
| 50.00 | Top of ascent; desc. 80 ft. over broken ledges, facing NW. |
| 54.50 | Wash, near head, drains N. |
| 56.00 | By triangulation asc. 240 ft. over broken ledges facing E., bears N. and S. |
| 73.35 | By chaining continue to asc. 120 ft. to sec. cor. |
| 80.00 | The cor. of secs. 29, 30, 31 and 32. |
| | Land, east half nearly level canyon floor, west half broken.<br>Soil, sandy, west half is boulder strewn.<br>Timber, moderate juniper and pinon; undergrowth, scattered artemisia. |
| | N. 89° 50' W., bet. secs. 30 and 31. |
| | Over general N. slope. |
| 23.50 | Wash, near head, drains NW. |
| 25.00 | E. rim of box canyon drains N., with broken ledges, facing W., bears N. and S. |
| 29.00 | Wash channel, 30 lks. wide, 4 ft. deep, drains N.; asc. 120 ft. over E. slope. |

| Chains | |
|---|---|
| 33.00 | W. rim of box canyon, drains N., with broken ledges, facing N bears NW. and SE.; continue to asc. 160 ft. to ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 30 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, w brass cap mkd. |
| | ¼ S 30 / S 31 / 1956 |
| | No suitable accessories available. |
| 43.00 | High point of ascent, on sandstone spur, sloping NW.; desc. 2 over general NW. slope. |
| 60.70 | Spur, sloping NW. |
| 78.00 | The cor. of secs. 25, 30, 31 and 36, on the west boundary of township. |
| | Land, broken, general N. drainage.<br>Soil, sandy, with numerous sandstone outcrops.<br>Timber, moderate juniper and pinon; undergrowth, moderate artemisia. |

## General Description

The land forms of T. 37 S., R. 16 E. are those formed by th dissection of Moss Back Mesa by Red Canyon and its tributaries resulting in deep canyons, isolated mesas and vertical ledges Moss Back Mesa. The general elevation ranges from 5000 to 740 feet above sea level. Red Canyon and its tributaries form the drainage system of the township and drain west to northwest in the Colorado River.

The residual sandy soil varies in depth throughout the town with large areas of sandstone outcrops and rocky, boulder stre talus. The vegetation varies in density from areas of heavy growth to areas of thinly scattered juniper, pinon, blackbrush silver leaf and other species of desert shrubs.

The only permanent source of water in the township is two s a tank in section 19 and a good flowing spring in section 16.

There is at present considerable activity in the exploratio and development of mineral, with the result that there are num bladed roads leading to claims which are non-producing and non patented. The only producing mine is the Maybe Mine, mining fissionable minerals, located in section 16. Because of the s deposits associated with the minerals in the area, the settlem of miners and their families now living at the Maybe Mine will a short time move on. Having taken the nonreplaceable mineral from the land. The land will be of less economic importance t before. Therefore the activity now has added little to the de opment of the township. The main utilization of the land stil remains in the winter grazing of cattle.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Dell Cazier | Frontchainman |
| Jim H. Tyer | Note-keeper |
| Jackie Lee Norris | Flagman |
| Darwin P. Russell | Cornerman |

16—53565-2

## CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor

pursuance of special instructions bearing date of the 13 day of May

I have surveyed the West and North boundaries and a portion of the

subdivision of Tp. 37 S., R. 16 E.

of the Salt Lake Meridian, in the State of Utah, w

represented in the foregoing field notes as having been executed by me and under my direction; a

said survey has been made in strict conformity with said instructions, the Manual of Instructions

Survey of the Public Lands of the United States, and in the specific manner described in the fo

field notes.

Salt Lake City, Utah

Jan. 4, 1957

Phil D. Smith

Phil D. Smith, Cadastral Su

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* JUL 23 1957

The foregoing field notes of the survey of the West and North boundaries and

portion of the subdivision of Tp. 37 South, Range 16 East, of

Salt Lake meridian.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff*

## ~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~

~~, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

4—879
(September 1948)

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

of the

Survey of the North Boundary

and a

Portion of the Subdivision

of

Township 38 South, Range 15 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *1955*, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *1956*

*Survey commenced* July 6, *19* 56

*Survey completed* August 24, *19* 56

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 38 South, *Range* 15 East

| | | | | | |
|---|---|---|---|---|---|
| 6<br>6 | 5<br>5 | 4<br>4 | 3<br>12 3 | 2<br>14 2<br>15 | 1<br>12 1<br>13 |
| 7 | 8 | 9 | 11 10 | 11 | 12 |
| 18 | 17 | 17<br>16 16<br>16 | 10 15 | 14 | 13 |
| 19 | 20 | 21 | 9 22 | 23 | 24 |
| 30 | 29 | 28 | 8 27 | 26 | 25 |
| 31 | 19<br>19 32 | 18<br>18 33 | 7 34 | 35 | 7<br>6 36 |

16—56770-1

T. 38 S., R. 15 E.

| Chains | |
|---|---|
| | The west boundary of T. 38 S., R. 15 E., was surveyed by Robert C. Tundt in 1930 and its record appears in the field notes of the survey of the range line between Rs. 14 and 15 E. in T. 38 S. The E. and S. boundaries were surveyed concurrently under Group 405, Utah.<br><br>The following field notes are those of the survey of the N. bdy. and a portion of the subdivision of T. 38 S., R. 15 E., deemed sufficient in extent to facilitate development of the natural resources and marked the boundaries of those sections that normally are considered State school sections.<br><br>The geographic position for the SE. cor. of this township is latitude 37° 25' 58" N. and longitude 110° 12' 07" W., as determined by traverse from U. S. G. S. triangulation station "Rock", situated in the NW. portion of sec. 2, T. 37 S., R. 15 E.<br><br>A record of the instruments, tests, adjustments and the methods employed are recorded in the field notes of T. 38 S., R. 16 E., this group.<br><br>The directions of the lines of this survey were determined generally by sustained angulation carried forward from the following hour angle observation on Polaris for meridian, supplemented by other numerous Polaris observations for azimuth taken throughout the progress of the survey.<br><br>July 23, 1956, at the cor. of Ts. 37 and 38 S., Rs. 15 and 16 E., at latitude 37° 31' 12" N. and longitude 110° 12' 07" W., at 3h 42m 41s p.m., l.m.t., I make an hour angle observation on Polaris, W. of the meridian, making two observations each with the telescope in direct and reversed position, reading the horizontal angle from a flag set approximately 15 chains W., with the following results:<br><br>Mean horizontal angle, flag to Polaris 89° 23' 30"<br>Azimuth of Polaris, W. of the Meridian 0° 36' 30"<br>True bearing to flag West<br><br>The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° East. |
| | North Boundary of T. 38 S., R. 15 E. |
| | Beginning at the true point for the cor. of Ts. 37 and 38 S., Rs. 15 and 16 E., witnessed North, 0.20 chs. dist., by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 38 S., R. 16 E.<br><br>S. 89° 46' W., bet. secs. 1 and 36.<br><br>Desc. 65 ft. over boulder strewn W. slope. |
| 11.50 | Wash, 70 lks. wide, 30 ft. deep, drains S. |
| 15.70 | Wash, 20 lks. wide, 4 ft. deep, drains S.; asc. 140 ft. over broken E. slope. |
| 26.90 | Spur, sloping S.; desc. 65 ft. over W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base to top of post, wit brass cap marked |
| | ¼ S 36 / S 1 / 1956 |
| | No suitable accessories available. |
| | Desc. 190 ft. over broken SW. slope to sec. cor. |
| 56.00 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 76.50 | Wash, 20 lks. wide, 3 ft. deep, drains W. to SW. |
| 80.00 | Point for the cor. of secs. 1, 2, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 3 ft. base to top of post, wit brass cap marked |
| | T37S R15E<br>S35 \| S36<br>S2 \| S1<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Land, rolling to broken, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | S. 89° 46' W., bet. secs. 2 and 35. |
| | Desc. 100 ft. over a general SW. slope to ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 2 ft. base to top of post, wit brass cap marked |
| | ¼ S 35 / S 2 / 1956 |
| | No suitable accessories available. |
| | Continue to desc. 120 ft. over general SW. slope. |
| 49.60 | Wash, 40 lks. wide, 10 ft. deep, drains NW., slope changes to |
| 53.15 | Same wash, drains SW. |
| 61.80 | E. rim, same wash, with nearly vertical ledge, 10 ft. high, fac SW., bears NW. and SE. |
| 69.55 | W. rim, wash, with vertical ledge, 15 ft. high, facing NE., bea NW. and SE. |
| 75.00 | Point selected for the witness cor. of secs. 2, 3, 34, and 35. |

North Boundary of T. 38 S., R. 15 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br><br>T37S R15E<br>WC ← S34 \| S35<br>S3 \| S2<br>T38S<br>1956<br><br>No suitable accessories available. |
| 78.00 | E. rim of small canyon, bears NW. and S.; desc. 80 ft. over W. slope. |
| 80.00 | True point for the cor. of secs. 2, 3, 34, and 35, falls on W. slope of small canyon, where it is impractical to set the monument.<br><br>Land, broken, general W. drainage.<br>Soil, sandy, boulder strewn.<br>Timber, none; undergrowth, none. |
| | S. 89° 46' W., bet secs. 3 and 34. |
| | Desc. 85 ft. over broken W. slope. |
| 3.00 | Wash channel, drains NW.; asc. 160 ft. over E. slope. |
| 10.00 | W. rim of small canyon, bears SE. and SW. |
| 15.90 | W. rim of small canyon, bears NW. and SE. |
| 23.00 | Spur, projecting N., continue to asc. 150 ft. over a general NE. slope to ¼ sec. cor. |
| 34.25 | Wash, near head, drains NE. |
| 37.00 | Red Canyon Road, bears NW. and SE. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>¼ S 34<br>S 3<br>1956<br><br>No suitable accessories available.<br><br>Asc. 215 ft. over general NE. slope to sec. cor. |
| 59.00 | Wash, drains N. |
| 80.00 | Point for the cor. of secs. 3, 4, 33, and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked |

| Chains | |
|---|---|
| | T37S R15E<br>S33 \| S34<br>S4 \| S3<br>T38S<br>1956<br><br>No suitable accessories available.<br><br>Land, broken with general N. drainage.<br>Soil, sandy, boulder strewn.<br>Timber, none; undergrowth, none. |
| | S. 89° 46' W., bet. secs. 4 and 33.<br><br>By triangulation; asc. 650 ft. |
| 15.00 | Base of nearly vertical ledge, 190 ft. high, facing NE., bear and SE. |
| 20.00 | Top of ascent on Mancos Mesa, rim bears NW. and SE., by chain continue to asc. 15 ft. over slight NE. slope. |
| 39.00 | Low spur, sloping S. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3 ft. base to top of post, wi brass cap marked<br><br>¼ S 33 / S 4<br>1956<br><br>No suitable accessories available.<br><br>Desc. 60 ft. over a general W. slope. |
| 49.00 | Head of wash, draining S. into Moki Canyon.<br><br>Asc. 120 ft. over general E. slope. |
| 73.00 | Start descent over W. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32, and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base to top of post, wi brass cap marked<br><br>T37S R15E<br>S32 \| S33<br>S5 \| S4<br>T38S<br>1956<br><br>No suitable accessories available.<br><br>Land, broken to rolling, general N. drainage.<br>Soil, sandy.<br>Timber, scattered juniper; undergrowth, none. |

North Boundary of T. 38 S., R. 15 E.

| Chains | |
|---|---|
| | S. 89° 46' W., bet. secs. 5 and 32. |
| | Desc. 300 ft. over W. to NW. slope. |
| 26.30 | Wash, 50 lks. wide, 10 ft. deep, drains SW., into Moki Canyon; asc. 200 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked |
| | ¼ S 32 / S 5 / 1956 |
| | No accessories available. |
| | Continue to asc. 45 ft. over SE. slope. |
| 45.00 | Spur, sloping SW.; desc. 200 ft. over general W. slope. |
| 55.00 | Base of spur, thence along S. slope to sec. cor. |
| 80.00 | True point for the cor. of secs. 5, 6, 31, and 32, falls at head of wash, which drains S. into Moki Canyon, where it is impractical to set the monument. |
| | Land, broken general SW. drainage.<br>Soil, sandy.<br>Timber, moderate juniper; undergrowth none. |
| | S. 89° 46' W., bet. secs. 6 and 31. |
| | Over broken land. |
| 10.00 | Point selected for the witness cor. of secs. 5, 6, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked |
| | T37S R15E<br>S31 \| S32 → WC<br>S6 \| S5<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Asc. 200 ft. over SE. slope. |
| 20.00 | High point of ascent on S. side of knoll; desc. 250 ft. over broken W. slope. |
| 30.35 | Head of wash, drains SW. into Moki Canyon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked |

| Chains | |
|---|---|
| | ¼ S 31 / S 6 1956 |
| | No suitable accessories available. |
| | Continue to desc. 200 ft. over general W. slope to set. cor. |
| 78.00 | The cor. of Ts. 37 and 38 S., Rs. 14 and 15 E., which is mark by an iron post, 3 ins. diam., firmly set, and witnessed as d scribed in the official record. |
| | Land, broken. Soil, sandy. Timber, moderate juniper; undergrowth, none. |

## Portion of the Subdivision of T. 38 S., R. 15 E.

| Chains | |
|---|---|
| | From the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of th township. |
| | N. 0° 01' W., bet. secs. 35 and 36. |
| | By triangulation; asc. 580 ft. |
| 23.60 | Base of vertical ledge, 200 ft. high, facing SE., bears NE. a |
| 36.00 | Top of ascent on lower rim of Clay Hills, bears NE. and SW. |
| | Thence by chaining. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, wit brass cap marked ¼ S35 \| S36 1956 |
| | No suitable accessories available. |
| | Asc. 160 ft. over broken general SW. slope, changing to NW. |
| 55.00 | Wash, 30 lks. wide, 5 ft. deep, drains S. to SW. |
| 58.00 | Wash, 30 lks. wide, 4 ft. deep, drains SW. |
| 80.00 | True point for the cor. of secs. 25, 26, 35, and 36, falls on sharp, clay slope, 20 ft. high, facing S., where it is impract to set the monument. |
| 81.00 | Point selected for the witness cor. of secs. 25, 26, 35, and 3 |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, wit brass cap marked |

| Chains | |
|---|---|
| | T38S R15E<br>S26 \| S25<br>S35 \| S36<br>WC<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling to broken, general SW. drainage.<br>Soil, clay.<br>Timber, none; undergrowth, none. |
| | From the true point for the cor. of secs. 25, 30, 31, and 36, on the E. bdy. of the township, which is witnessed North, 1.00 chs. dist. by an iron post, 2½ ins. diam., set, marked, and witnessed as described in the field notes of T. 38 S., R. 16 E., surveyed concurrently under this same group.<br><br>S. 89° 54' W., bet. secs. 25 and 36. |
| 9.00 | Wash, 25 lks. wide, 2 ft. deep, drains SE. |
| 15.00 | By triangulation; asc. 245 ft. |
| 28.50 | Base of vertical ledge, 200 ft. high, facing E., bears NW. and S. |
| 33.70 | Top of ascent on lower rim of Clay Hills, bears NW. and S., thence by chaining asc. 85 ft. over broken general E. slope. |
| 34.00 | Rut road, bears N. and SW. approximately 20 chains to end. |
| 39.99 | Point for the ¼ sec. cor. of secs. 25 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼ S 25 / S 36<br>1956<br><br>No suitable accessories available.<br><br>Asc. 180 ft. over general SE. slope to sec. cor. |
| 79.98 | The true point for the cor. of secs. 25, 26, 35, and 36.<br><br>Land, broken.<br>Soil, clay.<br>Timber, none; undergrowth, none. |
| | From the true point for the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the township, which is witnessed N. 89° 53' E., 2.30 chs. dist. an iron post, 2½ ins. diam., set, marked, and witnessed as described in the field notes of T. 39 S., R. 15 E., surveyed concurrently under this same group.<br><br>N. 0° 02' W., bet. secs. 33 and 34.<br><br>Asc. 230 ft. over broken general SE. slope. |
| 35.00 | Point selected for the witness ¼ sec. cor. of secs. 33 and 34. |

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in th
ground and in a mound of stone, 4 ft. base to top of post, wi
brass cap marked

¼
W C
S34 | S33
1956

No suitable accessories available.

40.00 True point for the ¼ sec. cor. of secs. 33 and 34, falls in
50 lks. wide, 15 ft. deep, drains E. to SE., where it is impr
tical to set the monument.

Thence by triangulation asc. 700 ft. to top of Clay Hills.

71.00 Base of vertical ledge, 300 ft. high, facing S., bears NE. an

76.00 Top of ascent on S. edge of Clay Hills.

Thence by chaining.

80.00 Point for the sec. cor. of secs. 27, 28, 33, and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the
ground and in a mound of stone, 4 ft. base to top of post, wi
brass cap marked

T38S R15E
S28 | S27
S33 | S34
1956

No suitable accessories available.

Land, broken, general S. drainage.
Soil, clay.
Timber, none; undergrowth, moderate black brush and silver le

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N. 0° 02' W., bet. secs. 27 and 28.

Over rolling top of Clay Hills Mesa; asc. 15 ft. over general
slope.

5.00 Spur, sloping W.; desc. 50 ft. over N. slope.

21.85 Wash, 30 lks. wide, 3 ft. deep, drains W.; asc. 65 ft. over S

36.10 Spur, sloping NW.; desc. 35 ft. over general N. slope.

40.00 Point for the ¼ sec. cor. of secs. 27 and 28.

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the
ground and in a mound of stone, 4 ft. base to top of post, wi
brass cap marked

¼
S28 | S27
1956

| Chains | |
|---|---|
| | No suitable accessories available. |
| 42.50 | Top of vertical ledge, 150 ft. high, facing N., bears NW. and E. |
| | Thence by triangulation. |
| 55.00 | S. rim of wash, bears NW. and SE. |
| 57.50 | Wash channel, drains NW. into Steer Pasture Canyon. |
| 64.00 | N. rim of wash, bears NW. and SE. |
| 70.30 | Head of wash, drains SW. |
| 75.00 | Thence by chaining. |
| 80.00 | True point for the cor. of secs. 21, 22, 27, and 28, falls on sharp S. slope of spur, where it is impractical to set the monument. |
| | Land, rolling broken top of Clay Hills Mesa, general W. drainage. Soil, sandy. Timber, moderate juniper; undergrowth, moderate black brush. |
| | N. 0° 02' W., bet. secs. 21 and 22. Over broken land. |
| 4.00 | Point selected for the witness cor. of secs. 21, 22, 27, and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T38S R15E<br>S21 \| S22<br>S28 \| S27<br>WC<br>1956 |
| | No suitable accessories available. |
| 10.00 | Thence by triangulation. |
| 17.00 | Wash in Steer Pasture Canyon, 40 lks. wide, 5 ft. deep, drains W. to SW. |
| 33.40 | Rim, with vertical ledge, 30 ft. high, facing SW., bears NW. and SE., thence by chaining; asc. 80 ft. over sharp SW. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 21 and 22, falls on crest of spur, where it is impractical to set the monument. |
| 44.00 | Point selected for the witness ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S 21 ↓ S22<br>W C<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| | Thence over rolling land. |
| 80.00 | Point for the cor. of secs. 15, 16, 21, and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 3 ft. base to top of post, wi brass cap marked<br>T38S R15E<br>S16 \| S15<br>S21 \| S22<br>1956<br>No suitable accessories available. |
| | Land, broken to rolling, general W. drainage.<br>Soil, sandy.<br>Timber, moderate juniper; undergrowth, moderate black brush, silver leaf. |
| --- | |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over rolling land; asc. 75 ft. over a general S. slope. |
| 1.50 | Wash, 30 lks. wide, 2 ft. deep, drains SW., slope changes to |
| 22.90 | Spur, sloping E.; desc. 70 ft. over broken NW. slope. |
| 38.50 | Head of small wash, drains NW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, wi brass cap marked<br>¼<br>S16 \| S15<br>1956<br>No suitable accessories available. |
| | Asc. 50 ft. over S. to SW. slope. |
| 42.70 | Wash, 20 lks. wide, 2 ft. deep, drains W. |
| 51.75 | Spur, sloping NW.; desc. 50 ft. over broken N. slope. |
| 56.00 | S. rim of Moki Canyon, bears NW. and SE. |
| 66.10 | Wash channel in Moki Canyon, drains NW.; asc. 70 ft. over bro SW. slope. |
| 80.00 | Point for the cor. of secs. 9, 10, 15, and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut i solid sandstone and supported in a mound of stone, 5 ft. base top of post, with brass cap marked<br>T38S R15E<br>S9 \| S10<br>S16 \| S15<br>1956<br>No suitable accessories available. |

Portion of the Subdivision of T. 38 S., R. 15 E.

| Chains | |
|---|---|
| | Land, rolling to broken, S. ½ mile drains SW, while N. ½ mile drains N. to NW.<br>Soil, sandy with sandstone outcrops.<br>Timber, moderate juniper with scattered pinon; undergrowth, moderate black brush, silver leaf and scattered cacti. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Asc. 150 ft. over broken SW. slope. |
| 4.70 | N. rim of Moki Canyon, bears NW. and SE., continue to asc. 75 ft. over rolling SW. slope. |
| 29.70 | Spur, sloping W.; desc. 15 ft. over N. to NW. slope. |
| 34.00 | Point selected for the witness ¼ sec. cor. of secs. 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼<br>W C<br>S9 ↑ S10<br>1956<br><br>No suitable accessories available.<br><br>Continue to desc. 220 ft. over rocky NW. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 9 and 10, falls on short, steep rocky NW. slope, where it is impractical to set the monuments. |
| 47.70 | Wash, 20 lks. wide, 4 ft. deep, drains W. to SW.; asc. 160 ft. over broken S. slope. |
| 59.16 | Spur, sloping W.; desc. 165 ft. over N. to NW. slope. |
| 68.60 | Wash, 20 lks. wide, 4 ft. deep, drains SW.; asc. 160 ft. over S. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 9, and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T38S R15E<br>S4 \| S3<br>S9 \| S10<br>1956<br><br>No suitable accessories available.<br><br>Land, broken to rolling, general NW. drainage.<br>Soil, sandy with sandstone outcrops.<br>Timber, moderate to scattered juniper; undergrowth, moderate black brush, silver leaf and cacti. |

| Chains | |
|---|---|
| | N. 0° 07' E., bet. secs. 3 and 4. |
| | Asc. 120 ft. over a general S. slope. |
| 15.00 | Slope changes to SW. |
| 26.10 | Spur, sloping W.; desc. 30 ft. over a general N. slope. |
| 31.00 | N. rim of Mancos Mesa, with vertical ledge 200 ft. high, facin NE., bears NW. and SE. |
| | Thence by triangulation; desc. 800 ft. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 4, falls at head of small wash, drains N., on rocky talus slope, where it is impractical to set the monument. |
| 45.00 | Leave small wash, drains NE. |
| 48.00 | Thence by chaining. |
| 50.00 | Point selected for the witness ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base to top of post, wit brass cap marked |
| | ¼<br>S4 ↓ S3<br>W C<br>1956 |
| | No suitable accessories available. |
| | Thence over boulder strewn NE. sloping talus slope. |
| 75.10 | Small wash, drains NE. |
| 80.10 | The cor. of secs. 3, 4, 33, and 34, on the N. bdy. of the town |
| | Land, rolling to broken, general SW. drainage in S. ½ mile, N. mile drains NE.<br>Soil, sandy, N. ½ mile is boulder strewn talus slope.<br>Timber, S. ½ mile has scattered juniper, N. ½ mile is barren.<br>Undergrowth, is scattered black brush in the S. ½ mile. |
| | From the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 1 and 2. |
| | Over nearly level land; desc. 15 ft. over a general S. slope t ¼ sec. cor. |
| .50 | Wash, 15 lks. wide, 2 ft. deep, drains SW. |
| 3.60 | Point of low spur, sloping SW. |
| 6.10 | Wash, 30 lks. wide, 3 ft. deep, drains W. to SW. |
| 22.60 | Wash, 50 lks. wide, 20 ft. deep, drains SW. |

| Chains | |
|---|---|
| 34.10 | Wash, 70 lks. wide, 20 ft. deep, drains SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>¼<br>S2 \| S1<br>1956<br>No suitable accessories available. |
| | Continue to desc. 65 ft. over a general W. slope. |
| 50.00 | Slope changes to SW. |
| 58.50 | Head of wash, drains SW. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T38S R15E<br>S2 \| S1<br>S11 \| S12<br>1956<br>No suitable accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 1, 6, 7, and 12, on the E. bdy. of the township. |
| | S. 89° 46' W., bet. secs. 1 and 12. |
| | Over rolling land; desc. 140 ft. over general W. slope. |
| 39.95 | Point for the ¼ sec. cor. of secs. 1 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼ S 1<br>S 12<br>1956<br>No suitable accessories available. |
| | Continue to desc. 150 ft. over general W. slope to sec. cor. |
| 60.10 | Wash, 50 lks. wide, 12 ft. deep, drains SW. |

| Chains | |
|---|---|
| 67.70 | Spur, sloping S. |
| 79.90 | The cor. of secs. 1, 2, 11, and 12. |
| | Land, rolling general W. slope, with SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | From the true point for the cor. of secs. 2, 3, 34, and 35, the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Over broken land; desc. 20 ft. over W. and SW. slope. |
| 11.40 | Wash, 70 lks. wide, 40 ft. deep, drains NW.; asc. 55 ft. over N. slope. |
| 15.30 | Spur, sloping W.; desc. 100 ft. over SW. slope. |
| 18.90 | Wash, 40 lks. wide, 30 ft. deep, drains W. |
| 26.00 | NE. rim of small canyon, with vertical ledge, 40 ft. high, facing S., bears E. and W. |
| 29.00 | Wash, in small canyon, drains WSW, approximately 6 chs., then |
| 33.20 | W. rim of small canyon, with vertical ledge, 30 ft. high, fac SE., bears NE. and SW. |
| 37.00 | Same wash, drains NE. |
| 38.00 | E. rim of small canyon, with nearly vertical ledge, 40 ft. hi facing NW., bears NE. and S. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 3, falls on bro ledges, facing S., on E. side of small canyon, where it is impractical to set the monument. |
| | At a point 150 lks. E. |
| | Point selected for the witness ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, wi brass cap marked<br>¼<br>WC S3 \| S2<br>1956 |
| | No suitable accessories available. |
| | Asc. 165 ft. over NE. slope. |
| 42.50 | Same wash, drains SW. from SE. |
| 60.20 | Red Canyon Road, bears N. 15° W. and S. 60° E. |
| 71.60 | Spur, sloping NW.; desc. 120 ft. over SW. slope. |
| 76.00 | Wash, drains E. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 2, 3, 10, and 11.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T38S R15E<br>S3 \| S2<br>S10 \| S11<br>1956<br><br>No suitable accessories available.<br><br>Land, broken, general W. drainage.<br>Soil, sandy with numerous sandstone outcrops.<br>Timber, none; undergrowth, moderate black brush. |
| | From the cor. of secs. 1, 2, 11, and 12.<br>S. 89° 47' W., bet. secs. 2 and 11.<br><br>Over broken land. |
| 10.00 | Wash, 25 lks. wide, 5 ft. deep, drains NW. from SE. |
| 22.00 | Wash, 40 lks. wide, 5 ft. deep, drains NW. from S. |
| 37.10 | Wash, 15 lks. wide, 2 ft. deep, drains NE. |
| 39.99 | Point for the ¼ sec. cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼ S 2<br>S 11<br>1956<br><br>No suitable accessories available.<br><br>Desc. 40 ft. over general NW. slope to sec. cor. |
| 47.00 | E. rim of small canyon, with vertical ledge, 60 ft. high, facing N. bears NE. and W. |
| 60.10 | E. rim of small canyon, with vertical ledge, 60 ft. high, facing NW., bears E. and SW. |
| 63.00 | Wash channel, drains NE. |
| 64.00 | W. rim of small canyon, with nearly vertical ledge, 70 ft. high, facing SE., bears NE. and SW. |
| 67.00 | Wash, 30 lks. wide, 3 ft. deep, drains NE. from W. |
| 71.00 | Wash, 20 lks. wide, 2 ft. deep, drains E. from NW. |
| 72.20 | Red Canyon Road, bears N. 35° W. and S. 10° E. |
| 79.98 | The cor. of secs. 2, 3, 10, and 11. |

| Chains | |
|---|---|
| | Land, broken, general N. to NW. drinage.<br>Soil, sandy with numerous sandstone outcrops.<br>Timber, none; undergrowth, scattered black brush. |
| | From the cor. of secs. 15, 16, 21, and 22. |
| | S. 89° 53' W., bet. secs. 16 and 21. |
| | Over nearly level land. |
| 2.50 | Wash, 30 lks. wide, 2 ft. deep, drains SW. |
| 20.80 | Wash, 30 lks. wide, 2 ft. deep, drains SW. |
| 39.50 | Wash, 40 lks. wide, 2 ft. deep, drains S. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>¼ S 16 / S 21<br>1956 |
| | Raise a mound of earth, 3 ft. base, 2 ft. high, to N. of post |
| 52.40 | Spur, sloping SW.; desc. 40 ft. over general NW. slope. |
| 71.40 | Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. over SW. slo |
| 80.00 | Point for the cor. of secs. 16, 17, 20, and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top of post, wi brass cap marked<br>T38S R15E<br>S17 \| S16<br>S20 \| S21<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level, general SW. drainage.<br>Soil, sandy.<br>Timber, moderate juniper and pinon; undergrowth, moderate blac brush. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over nearly level land. |
| 1.30 | Spur, sloping SW.; desc. 18 ft. over NW. slope. |
| | Thence over nearly level land. |
| 38.00 | Point selected for the witness ¼ sec. cor. of secs. 16 and 17, |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼<br>W C<br>S17 ↑ S16<br>1956 |
| | No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 16 and 17, falls on bank of wash, where the monument cannot be perpetuated. |
| 41.00 | Wash, 40 lks. wide, 10 ft. deep, drains W. to SW. |
| 51.00 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 56.00 | Wash, 10 lks. wide, 2 ft. deep, drains SW. |
| 65.30 | Wash, 10 lks. wide, 5 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 8, 9, 16, and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of earth, 3 ft. base to top of post, with brass cap marked |
| | T38S R15E<br>S8 \| S9<br>S17 \| S16<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level, general SW. drainage.<br>Soil, sandy, with exposed sandstone.<br>Timber, heavy juniper and pinon; undergrowth, moderate artemisia. |
| | From the cor. of secs. 9, 10, 15, and 16. |
| | S. 89° 52' W., bet. secs. 9 and 16. |
| | Over boulder strewn talus, sloping NE. from Mesa rim, bearing NW. and SE. |
| 6.25 | Spur, sloping SW.; desc. over NW. slope. |
| 18.40 | Wash, in Moki Canyon, 50 lks. wide, 5 ft. deep, drains NW.; asc. 240 ft. over broken NE. facing ledge. |
| 32.00 | Top of ascent on canyon wall, 200 ft. high, facing NE., bears NW. and SE. |
| 40.02 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | ¼ S 9 / S 16<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| 43.60 | Spur, projecting N.; desc. 80 ft. over NW. slope. |
| 54.50 | Wash, 20 lks. wide, 4 ft. deep, drains N.; asc. 30 ft. over l slope. |
| 76.00 | Spur, sloping SE., top of ascent; desc. 40 ft. to sec. cor. |
| 80.04 | The cor. of secs. 8, 9, 16, and 17. |
| | Land, rough and broken, general NW. drainage. Soil, boulder strewn sand. Timber, heavy juniper and pinon; undergrowth, moderate artemi |
| | From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of th township, which is marked by an iron post, 2½ ins. diam., as described in the field notes of T. 39 S., R. 15 E. |
| | N. 0° 03' W., bet. secs. 32 and 33, by triangulation; asc. 56 over steep S. sloping talus, and broken ledges, facing S., be NW. and SE. |
| 19.25 | Rim of mesa, 400 ft. high, facing S., bears NW. and SE. |
| | Thence by chaining asc. 180 ft. over broken ledges. |
| 40.00 | True point for the ¼ sec. cor. of secs. 32 and 33, falls on b ledges, facing S., bears E. and W., where it is impractical t set the monument. |
| | At a point 490 lks. East. |
| | Point selected for the witness ¼ sec. cor. of secs. 32 and 33 |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sands bedrock and supported in a mound of stone, 4 ft. base to top post, with brass cap marked |
| | S32 ¼ \| S 33 WC<br>1956 |
| | No suitable accessories available. |
| | Asc. 240 ft. over broken S. slope. |
| 60.30 | Spur and top of ascent, projecting NW.; desc. 200 ft. over br N. facing ledges. |
| 80.00 | True point for the cor. of secs. 28, 29, 32, and 33, falls on broken ledges, facing N., bears E. and W., where it is imprac to set the monument. |
| | Land, rough and broken, drainage is S. on S. ½ mile and N. in N. ½ mile. Soil, sandy with large areas of exposed sandstone. Timber, moderate juniper and pinon; undergrowth, moderate artemisia. |

Portion of the Subdivision of T. 38 S., R. 15 E.

| Chains | |
|---|---|
| | From the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the township, which is marked by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of T. 39 S., R. 15 E. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Asc. 70 ft. over rough broken land. |
| 40.00 | True point for the ¼ sec. cor. of secs. 31 and 32, falls on steep talus sloping W., from isolated butte approximately 7 chs. E. of true point, where it is impractical to set the monument. |
| 41.00 | Point selected for the witness ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone outcrop and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S31 ↓ S32<br>W C<br>1956 |
| | No suitable accessories available. |
| | Continue over rough broken land, drainage changes to W. |
| 65.00 | Drainage changes to N. and NW. |
| 80.00 | Point for the cor. of secs. 29, 30, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T38S R15E<br>S30 \| S29<br>S31 \| S32<br>1956 |
| | No suitable accessories available. |
| | Land, rough and broken, S. ½ mile drains S. and SE., while the N. ½ drains N. to NW.<br>Soil, sandy with numerous sandstone outcrops.<br>Timber, moderate juniper and pinon; undergrowth, scattered artemisia. |
| | From the true point for the cor. of secs. 28, 29, 32, and 33. |
| | S. 89° 52' W., bet. secs. 29 and 32. |
| | Over rough broken land. |
| 5.00 | Point selected for the witness cor. of secs. 28, 29, 32, and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |

| Chains | |
|---|---|
| | T38S R15E<br>S29 S28<br>S32 S33 → BC<br>1956. |
| | No suitable accessories available. |
| 25.20 | Wash, 50 lks. wide, 2 ft. deep, drains NW. |
| 26.00 | E. edge of nearly level stream valley, bears N. 15 chs. and S. 10 chs. |
| 36.00 | W. edge of stream valley, bears N. and S.; asc. 165 ft. over broken ledges, facing NE., bears NW. and SE. |
| 39.99 | Point for the ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock and supported in a mound of stone, 4 base to top of post, with brass cap marked<br>¼ S 29 / S 32<br>1956 |
| | No suitable accessories available. |
| | Asc. 90 ft. over steep NE. slope. |
| 62.80 | Enter heavy juniper and pinon, bears N. and S. |
| 79.98 | The cor. of secs. 29, 30, 31, and 32. |
| | Land, rough and broken, general N. drainage.<br>Soil, sandy with large areas of exposed sandstone.<br>Timber, moderate to heavy juniper and pinon; undergrowth, sc black brush. |

## General Description

The land forms of T. 38 S., R. 15 E. are those generally associated with plateau and canyon type topography. The most dominant feature is a dissected mesa, with the E. facing rim entering the township in the NE¼ of sec. 4, bearing SE. to se 25, thence S. and SW., becoming extremely rough and broken fo what is known as Clay Hills, to the SW¼ of sec. 32 and the S. boundary of the township. The land in the NE., E. and SE. po is mostly talus, sloping from the mesa. The mesa is cut by t canyons and their tributaries, Steer Pasture Canyon draining and Moki Canyon draining NW. The NE. portion of the township below the mesa rim drains N. and NW. into Red Canyon. The SE portion drains S. to SW. The elevation of the township range from 4900 in the SE¼ of sec. 36 to 6700 feet above sea level, sec. 25.

The residual sandy soil varies in depth and quality throug the township. There are large areas of exposed sandstone and talus, both being devoid of soil or vegetation. The better s is found on the mesa and produces a moderate to heavy growth juniper, pinon, artemisia, and gamma grass.

Chains

There are no perennial streams or bodies of water within the boundaries of the township. There are, however, three good springs, two in sec. 20 and one in sec. 4. The canteens of the crew were filled in a few monutes at any one of the springs. All three springs continue to flow throughout the progress of the survey.

Development thus far consists of numerous mineral claims, scattered throughout the township, none of which are patented or producing. Access to the S. and W. portion of the township was gained by way of an access road, which bears W. and SW. from Red House Spring, which is located 1 mile E. of the ¼ sec. cor. of secs. 13 and 18 on the E. boundary of the township, to Clay Hills Pass. Sec. 16 and the N. ½ of the center line were reached by way of a bulldozed road, which is located in the bottom of Steer Pasture Canyon and bears E. from the Clay Hills Road, near Irish Green Spring, approximately 5 miles. The N. boundary and secs. 1 and 2 were reached by way of the Red Canyon Road, which bears N. and NW. from Red House Spring entering the township in the N, ¼ of sec. 13, thence NW. across the SW. portion of sec. 2 and leaving the township at the ¼ sec. cor. of secs. 3 and 34 on the N. boundary.

There is no permanent human settlement within the township. The predominating interest is in winter grazing of cattle and it appears that this will remain so until such time as the mineral exploration may prove to be successful.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Jim H. Tyer | Note-keeper |
| Maurice L. Hinton | Frontchainman |
| Darwin P. Russell | Cornerman |
| Dell (NMN) Cazier | Flagman |
| William E. Brickey | Axeman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13 day of May 1955 I have surveyed the North boundary and a portion of the subdivision of Tp. 38 South, Range 15 East.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
Jan. 4, 1957

Phil D. Smith
Phil D. Smith, Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
*Washington, D. C.,* JUL 23 1957, *19*

The foregoing field notes of the survey of the North boundary and a portion of the subdivision of Tp. 38 South, Range 15 East., of the Salt Lake Meridian.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~ ~~, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

# FIELD NOTES

of the

Survey of the North and West Boundaries

and a

Portion of the Subdivision

of

Township 38 South, Range 16 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *19* 55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *19* 56

*Survey commenced* July 2, *19* 56

*Survey completed* August 10, *19* 56

U. S. GOVERNMENT PRINTING OFFICE 16—66770-1

# INDEX DIAGRAM

*Township* 38 South, *Range* 16 East

| | | | | | |
|---|---|---|---|---|---|
| 11<br>6 6 | 10<br>5 | 10<br>4 | 8<br>17 3<br>21 | 8<br>19 2<br>20 | 7<br>18 1<br>19 |
| 5 7 | 8 | 9<br>23 | 17 10 | 11 | 12 |
| 5 18 | 17 | 22 16<br>21 | 16 15 | 14 | 13 |
| 4 19 | 20 | 21 | 15 22 | 23 | 24 |
| 2 30<br>26 | 29<br>26 | 28<br>24 | 15 27 | 26 | 25<br>13 |
| 2 31 | 25 32 | 23 33 | 14 34 | 35 | 12 36 |

16—56770-1

2470

Township 38 South, Range 16 East

Chains

The east boundary of T. 38 S., R. 16 E. was surveyed by Moore and Yundt in 1929 and its record appears in the field notes of the range line between Ranges 16 and 17 East in T. 38 S. The south boundary was concurrently surveyed under Group 405, and its record appears in the field notes of T. 39 S., R. 16 E.

The following field notes are those of the survey of the north and west boundaries and a portion of the subdivision of T. 38 S., R. 16 E. deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered State school sections.

This survey was executed with a W. and L. E. Gurley transit, serial number 541329, equipped with an improved telescopic solar attachment, and a light mountain solar transit made by Buff and Buff, serial number 23831, both being constructed in accordance with standard instrumental specifications of the Bureau of Land Management. The instruments were in good adjustment prior to the survey and were maintained in proper adjustment throughout the progress of the survey.

The directions of the lines of survey were determined generally by sustained angulation carried forward from the following hour angle observation on Polaris for meridian, supplemented by other numerous Polaris observations for azimuth taken throughout the progress of the survey. The solar attachments were not used.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true methods, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions all subdivisional corners established are calculated to be at the positions they would occupy of the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of every 10 links. The tape was tested by comparison with a 1-chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible to chaining were run by traverse or triangulation. The details of such traverse or triangulation were thoroughly checked and verified, and in order to simplify the record, the diagrams and reductions are omitted from these field notes.

The geographic position for the SE. corner of this township is latitude 37° 25' 58" N. and longitude 110° 05' 35" W. as determined by traverse from U.S.G.S. triangulation station "Rock", situated in the northwest portion of section 2, T. 37 S., R. 15 E.

July 2, 1956, at the corner of Ts. 38 and 39 S., Rs. 15 and 16 E. in latitude 37° 25' 58" N. and longitude 110° 05' 35" W., at 5h 20m 28s p.m., l.m.t., I make an hour angle observation of Polaris, west of the meridian, making two observations each with the telescope in direct and reversed position, reading the horizontal angle from a flag set approximately 20 chains north, with the following results:

| | |
|---|---|
| Mean horizontal angle, flag to Polaris | 0° 32' 15" |
| Azimuth of Polaris, W. of the meridian | 0° 32' 11" |
| True bearing to flag | North |

| Chains | |
|---|---|
| | The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° E. |
| | Survey of the West Boundary of T. 38 S., R. 16 E. |
| | From the cor. of Ts. 38 and 39 S., Rs. 15 and 16 E., which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of T. 39 S., R. 16 E. |
| | North, bet. secs. 31 and 36. |
| | Over rolling to broken land; asc. 85 ft. over a general S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | ¼<br>S 36 \| S 31<br>1956 |
| | No accessories available. |
| | Continue to asc. 60 ft. over general S. slope. |
| 55.20 | Graded dirt road, bears NE. and SW. |
| 75.00 | Wash, 20 lks. wide, 3 ft. deep, drains E. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36, falls in wash, 20 lks. wide, 2 ft. deep, drains E., where it is impractical to set the monument. |
| | Land, rolling, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered blackbrush. |
| | North, bet. secs. 25 and 30. |
| | Asc. 15 ft. over sandy S. slope. |
| 1.00 | Point selected for the witness cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T38S<br>R15E R16E<br>S25 \| S30<br>S36 \| S31<br>W C<br>1956 |
| | No suitable accessories available. |
| | Asc. 110 ft. to ¼ sec. cor. |

| Chains | |
|---|---|
| 2.00 | Wash, 30 lks. wide, 4 ft. deep, drains E. |
| 14.00 | Wash, 20 lks. wide, 2 ft. deep, drains SE. |
| 15.70 | Rut road, bears NW. and SE. |
| 19.00 | S. base of spur, bears E. and W.; asc. S. slope. |
| 20.90 | Spur, sloping E.; desc. N. slope. |
| 22.30 | N. base of spur, bears E. and W. |
| 27.50 | Wash, 90 lks. wide, 5 ft. deep, drains SE. |
| 37.50 | Point selected for the witness ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼<br>W C<br>S 25 ↑ S 30<br>1956 |
| | No suitable accessories available. |
| 40.00 | True point for the ¼ sec. cor. of secs. 25 and 30, falls in wash, 100 lks. wide, 5 ft. deep, drains E. to SE., where the monument cannot be perpetuated. |
| | Thence by triangulation; asc. 400 ft. to sec. cor. |
| 64.00 | Base of broken, nearly vertical ledge, 200 ft. high, facing SE., bears NE. and SW. |
| 71.90 | Top of ascent on lower rim of clay hills, bears NE. and SW. |
| | Thence by chaining. |
| 78.25 | Rut road, bears NE. to N. and SW. approximately one half mile to end. |
| 80.00 | Point for the cor. of secs. 19, 24, 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T38S<br>R15E R16E<br>S24 \| S19<br>S25 \| S30<br>1956 |
| | No suitable accessories available. |
| | Cor. is located 10 lks. W. of rut road. |
| | Land, broken, general SE. drainage.<br>Soil, sandy.<br>Timber, thinly scattered juniper in north ¼ mile; undergrowth, moderate blackbrush. |

| Chains | |
|---|---|
| | North, bet. secs. 19 and 24. |
| | Over broken land on lower rim of clay hills. |
| 19.30 | Thence by triangulation. |
| 24.00 | S. rim of small canyon, with broken, nearly vertical ledge, 200 ft. high, facing N., bears E. and W. |
| 28.00 | Wash, drains N. 85° E. |
| 31.20 | Point of small spur, bet. small canyons, projects E. |
| 36.50 | Wash, drains E. |
| 40.00 | True point for the ¼ sec. cor. of secs. 19 and 24, falls on N. rim of small canyon, with vertical ledge, 150 ft. high, facing S., bears NE. and SW., where it is impractical to set the monument. |
| | Thence by chaining. |
| 48.50 | Point selected for the witness ¼ sec. cor. of secs. 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | ¼<br>S 24 ↓ S 19<br>W.C<br>1956 |
| | No suitable accessories available. |
| | Thence by triangulation. |
| 59.00 | S. rim of small canyon, with vertical ledge, 150 ft. high, facing N., bears E. and W. |
| 64.00 | Wash channel, drains E. |
| 69.70 | N. rim of small canyon, with vertical ledge, 150 ft. high, facing S., bears E. and W. |
| | Thence by chaining. |
| 80.00 | Point for the cor. of secs. 13, 18, 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T38S<br>R15E R16E<br>S13 \| S18<br>S24 \| S19<br>1956 |
| | No suitable accessories available. |
| | Land, broken lower rim of clay hills, general SE. drainage.<br>Soil, clay.<br>Timber, none; undergrowth, scattered blackbrush. |

| Chains | |
|---|---|
| | North, bet. secs. 13 and 18. |
| | Over nearly level land. |
| 40.00 | Point for the ¼ sec. cor. of secs. 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.<br><br>¼<br>S 13 \| S 18<br>1956 |
| | No suitable accessories available. |
| 53.25 | Red Canyon road, bears NE. and SW. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T38S<br>R15E R16E<br>S12 \| S7<br>S13 \| S18<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level, general SE. drainage.<br>Soil, clay.<br>Timber, none; undergrowth, none. |
| | North, bet. secs. 7 and 12. |
| | Over rolling land. |
| | Asc. 35 ft. to ¼ sec. cor., over a general SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>¼<br>S 12 \| S 7<br>1956 |
| | No suitable accessories available. |
| | Thence over nearly level land. |
| 64.50 | Wash, 45 lks. wide, 2 ft. deep, drains SW. |
| 71.00 | Wash, 100 lks. wide, 4 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T38S<br>R15E R16E<br>S1 \| S6<br>S12 \| S7<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling to nearly level, general SE. drainage.<br>Soil, sandy.<br>Timber, thinly scattered juniper for north ¼ mile; undergrowth, scattered blackbrush. |
| | North, bet. secs. 1 and 6.<br><br>Over rolling to broken land.<br><br>Desc. 40 ft. to ¼ sec. cor. over a general NW. slope. |
| 22.80 | Wash, 100 lks. wide, 6 ft. deep, drains NW. |
| 34.50 | Wash, 100 lks. wide, 8 ft. deep, drains WSW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.<br><br>¼<br>S 1 \| S 6<br>1956<br><br>No suitable accessories available.<br><br>Continue to asc. 240 ft. over broken SW. slope. |
| 49.00 | Wash, 100 lks. wide, 8 ft. deep, drains SW. |
| 63.00 | Same wash, drains SE. |
| 66.60 | Base of rocky talus slope, sloping S., bears E. and W. |
| 80.00 | True point for the cor. of Ts. 37 and 38 S., Rs. 15 and 16 E., falls on a sandstone outcrop, 6 ft. wide, 4 ft. high, 7 ft. long, where it is impractical to set the monument. Mark the true point with an X cut into the sandstone outcrop. |
| 80.20 | Point selected for the witness cor. of Ts. 37 and 38 S., Rs. 15 and 16 E.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into sandstone bedrock, and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T37S<br>R15E R16E<br>S36 \| S31<br>S1 \| S6<br>T38S<br>WC<br>1956 |

Survey of the West Boundary of T. 38 S., R. 16 E.

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Land, broken, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, none. |

Survey of the North Boundary of T. 38 S., R. 16 E.

| Chains | |
|---|---|
| | Beginning at the cor. of Ts. 37 and 38 S., Rs. 16 and 17 E., which is marked by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record. |
| | N. 89° 51' W., bet. secs. 1 and 36. |
| | Asc. 300 ft. along S. slope of talus slope. |
| 22.85 | Rim with vertical ledge, 150 ft. high, facing SE., bears NE. and SW. |
| 36.80 | Point selected for the witness ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>¼ WC $\frac{\text{S 36}}{\text{S 1}}$<br>1956 |
| | No suitable accessories available. |
| | By triangulation, desc. 200 ft. along talus slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 1 and 36, falls on ledge, facing S., 30 ft. high, bears E. and W., where the monument cannot be perpetuated. |
| 61.00 | Base of talus slope, bears NW. and SE.; continue to desc. 80 ft. over SW. slope to sec. cor. |
| | Thence by chaining. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.<br><br>T37S R16E<br>S35 \| S36<br>S2 \| S1<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Land, rock strewn talus slope, sloping S.<br>Soil, rocky sand.<br>Timber, none; undergrowth, none. |

| Chains | |
|---|---|
| | N. 89° 51' W., bet. secs. 2 and 35. |
| | By triangulation, asc. 260 ft. over broken land. |
| 26.00 | Base of talus slope, sloping SE., bears NE. and SW. |
| 33.00 | Top of ascent, on flat-topped spur, projecting S. |
| | Thence by chaining, desc. 45 ft. over a general SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | ¼ S 35 / S 2 / 1956 |
| | No suitable accessories available. |
| | Thence by triangulation. |
| 41.00 | Rim with nearly vertical ledge, 200 ft. high, facing SW., bears NW. and SE. |
| 64.00 | Rim with nearly vertical ledge, 150 ft. high, facing SE., bears NE. and SW. |
| | Thence by chaining, over nearly level land. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S34 \| S35<br>S3 \| S2<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Land, rough and broken to nearly level, general S. drainage. Soil, sandy. Timber, none; undergrowth, scattered blackbrush. |
| | N. 89° 51' W., bet. secs. 3 and 34. |
| | Over nearly level land. |
| 18.30 | Point selected for a witness point. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | W P<br>S 34<br>S 3<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Leave nearly level land; desc. 30 ft. over NW. slope. |
| 20.30 | N. rim, S. side of Red Canyon, with vertical ledge, 75 ft. high, facing NW., bears NE. and SW.; desc. 115 ft. over sharp NW. slope. |
| 24.00 | Wash, drains NNW. |
| 28.00 | Slope changes to N. |
| 32.50 | Wash, drains NW. |
| 38.00 | Base of descent on N. slope; asc. 125 ft. over N. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 34, falls on broken ledges of N. slope of S. side of Red Canyon, where the monument cannot be perpetuated. |
| 47.00 | Slope changes to NE. |
| 55.00 | N. rim, S. side of Red Canyon, with vertical ledge, 100 ft. high, facing NE., bears NW. and SE. |
| 62.00 | Spur, projecting N. |
| 65.40 | Point selected for a witness point. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | W P<br>S 34<br>S 3<br>1956 |
| | No suitable accessories available. |
| | Desc. 40 ft. over NW. slope. |
| 68.80 | N. rim, S. side of Red Canyon, with vertical ledge, 80 ft. high, facing NW., bears NE. and SW. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S33 \| S34<br>S4 \| S3<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Land, nearly level to broken.<br>Soil, sandy.<br>Timber, thinly scattered juniper; undergrowth, none. |

| Chains | |
|---|---|
| | N. 89° 51' W., bet. secs. 4 and 33. |
| | Desc. 130 ft. over broken NW. slope. |
| 25.65 | Wash, 25 lks. wide, 3 ft. deep, drains NE. to N.; asc. 40 ft. over E. slope. |
| 35.00 | Base of talus slope, sloping E., bears N. and SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 4 and 33, falls on broken talus slope, where it is impractical to set the monument. |
| 41.00 | Base of vertical ledge, 65 ft. high, facing E., bears N. and SW. |
| 45.00 | Rim on S. side of Red Canyon, bears NE. and SW. |
| 45.40 | Point selected for the witness ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | ¼ S 33 / S 4 → WC<br>1956. |
| | No suitable accessories available. |
| | Asc. 45 ft. over SE. slope. |
| 58.50 | Broken rim on S. side of Red Canyon, bears N. to NE. and W.; desc. 115 ft. along N. face of rim. |
| 63.80 | Base of descent on vertical ledge, 70 ft. high, facing N., bears E. and W.; asc. 90 ft. over broken N. facing ledges. |
| 67.00 | Rim on S. side of Red Canyon, bears NW. and E.; continue to asc. 30 ft. over NE. slope. |
| 77.00 | Top of ascent on flat-topped spur, projecting N.; desc. 40 ft. over a general W. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S32 \| S33<br>S5 \| S4<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Land, broken S. side of Red Canyon, general N. drainage.<br>Soil, sandy.<br>Timber, scattered juniper; undergrowth, none. |
| | N. 89° 51' W., bet. secs. 5 and 32. |
| | Desc. 80 ft. over SW. broken slope to ¼ sec. cor. |

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Survey of the North Boundary of T. 38 S., R. 16 E.

| Chains | |
|---|---|
| 20.00 | Rut road, bears NW. and SE.; thence over boulder strewn area. |
| 40.00 | True point for the ¼ sec. cor. of secs. 5 and 32, falls on a sandstone boulder, 4 ft. wide, 5 ft. long, and 4 ft. high, where it is impractical to set the monument. |
| 40.20 | Point selected for the witness ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | ¼ S 32 / S 5 → WC<br>1956 |
| | No suitable accessories available. |
| | Desc. 60 ft. over boulder strewn SW. slope to sec. cor. |
| 43.90 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 55.60 | Rut road, bears NE. and SW. |
| 76.00 | Wash, 10 lks. wide, drains S. |
| 77.80 | Low spur, sloping S. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T37S R16E<br>S31 \| S32<br>S6 \| S5<br>T38S<br>1956 |
| | No suitable accessories available. |
| | Land, broken, general S. drainage.<br>Soil, boulder strewn sand.<br>Timber, none; undergrowth, none. |
| | N. 89° 51' W., bet. secs. 6 and 31. |
| | Over broken land; desc. 15 ft. over W. slope. |
| .50 | Rut road, bears NW. and SE. |
| 1.00 | Base of descent in wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 80 ft. over rocky SE. slope. |
| 2.05 | Rut road, bears NE. and SW. |
| 19.00 | Wash, 10 lks. wide, 2 ft. deep, drains SW. |
| 20.00 | Flat-topped spur, sloping S. to SW.; desc. 60 ft. over NW. slope. |

| Chains | |
|---|---|
| 40.00 | True point for the ¼ sec. cor. of secs. 6 and 31, falls on E. sloping bank of small wash, 20 lks. wide, 3 ft. deep, drains SW., where it is impractical to set the monument. |
| 40.45 | Point selected for the witness ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼ S 31 / S 6 → WC<br>1956 |
| | No suitable accessories available. |
| | Continue to desc. 80 ft. over rocky SW. slope. |
| 67.90 | Wash, 20 lks. wide, 4 ft. deep, drains S. |
| 73.00 | Wash, 15 lks. wide, 3 ft. deep, drains S. |
| 78.20 | The true point for the cor. of Ts. 37 and 38 S., Rs. 15 and 16 E. |
| | Land, broken, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, none. |

Survey of a Portion of the Subdivision of T. 38 S., R. 16 E.

| | |
|---|---|
| | From the cor. of secs. 1, 2, 35 and 36, on the south boundary of the township, which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the survey of T. 39 S., R. 16 E. |
| | N. 0° 01' W., bet. secs. 35 and 36. |
| | Desc. 30 ft. over NW. slope. |
| 24.45 | Wash, 300 lks. wide, 100 ft. deep, drains W. |
| 35.00 | Point selected for the witness ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼<br>W C<br>S 35 ↑ S 36<br>1956 |
| | No suitable accessories available. |
| | Thence by triangulation. |
| 37.00 | Left rim, Grand Gulch, with vertical ledge, 300 ft. high, facing NW., bears N. to NE. and S. 10° W. |

| Chains | |
|---|---|
| 40.00 | True point for the ¼ sec. cor. of secs. 35 and 36, falls in Grand Gulch, where the monument cannot be perpetuated. |
| 55.45 | Wash, drains W. to Grand Gulch; asc. ledge, 250 ft. high, facing S. |
| 58.00 | Top of left rim of Grand Gulch; thence over rolling top. |
| 74.50 | Left rim, Grand Gulch, with nearly vertical ledge, 200 ft. high, facing N., bears NW. and E. |
| 78.00 | Left rim, Grand Gulch, with nearly vertical ledge, 200 ft. high, facing SE., bears NE. and SW. |
| | Thence by chaining. |
| 78.75 | Point selected for the witness cor. of secs. 25, 26, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone, and supported in a mound of stone, 5 ft. base to top of post, with brass cap mkd. |
| | T38S R16E<br>W C<br>S26 \| S25<br>S35 \| S36<br>1956 |
| | No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 25, 26, 35 and 36, falls on N. edge of sandstone outcrop, 60 ft. wide, 100 ft. long, 40 ft. high, where it is impractical to set the monument. |
| | Land, broken, general SW. drainage.<br>Soil, sandy with exposed sandstone bedrock.<br>Timber, thinly scattered juniper; undergrowth, scattered blackbrush and cacti. |
| | From the cor. of secs. 25, 30, 31 and 36, on the east boundary of the township, which is marked with an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record. |
| | N. 89° 55' W., bet. secs. 25 and 36. |
| | Desc. 65 ft. over SW. slope. |
| 19.70 | Wash, 30 lks. wide, 4 ft. deep, drains SW.; asc. 30 ft. over a general SE. slope. |
| 32.00 | Top of ascent on spur, sloping SW. |
| 39.94 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼ S 25 / S 36<br>1956 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| | Desc. 45 ft. over a general NW. slope. |
| 50.40 | Left rim, Grand Gulch, with vertical ledge, 200 ft. high, facing NW., bears NE. and SW. |
| | Thence by triangulation. |
| 79.00 | Right rim, Grand Gulch, with vertical ledge, 190 ft. high, facing SE., bears NE. and SW. |
| | Thence by chaining. |
| 79.88 | True point for the cor. of secs. 25, 26, 35 and 36. |
| | Land, rolling to broken, general SW. drainage.<br>Soil, sandy with sandstone outcrops.<br>Timber, thinly scattered juniper; undergrowth, scattered blackbrush |

From the cor. of secs. 3, 4, 33 and 34, on the south boundary of the township, which is marked by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the survey of T. 39 S., R. 16 E.

N. 0° 02' W., bet. secs. 33 and 34.

Desc. 15 ft. over NW. slope.

23.80 Wash, 50 lks. wide, 4 ft. deep, drains W.

37.50 Wash, 50 lks. wide, 2 ft. deep, drains W. to SW.; asc. 20 ft. over sandy S. slope.

40.00 Point for the ¼ sec. cor. of secs. 33 and 34.

Set an iron post, 30 ins. long, 1 in. diam., 10 ins. in a drill hole in solid sandstone, and supported in a mound of stone, 2 ft. base to top of post, with brass cap mkd.

¼
S 33 | S 34
1956

No suitable accessories available.

Continue to asc. 10 ft. over sandy S. slope.

41.60 Low sandy spur, sloping W. to SW.; continue over rolling sandy land.

55.50 Wash, 50 lks. wide, drains SW.

80.00 Point for the cor. of secs. 27, 28, 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T38S R16E
S28 | S27
S33 | S34
1956

| Chains | |
|---|---|
| | No suitable accessories available.<br><br>Land, rolling, general SW. drainage.<br>Soil, sandy, with sandstone outcrops.<br>Timber, none; undergrowth, scattered blackbrush and cacti. |
| | N. 0° 02' W., bet. secs. 27 and 28.<br><br>Desc. 75 ft. over a general NW. slope. |
| 12.30 | Head of wash, drains SW.; asc. 70 ft. over SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>¼<br>S 28 \| S 27<br>1956<br><br>No suitable accessories available.<br><br>Continue to asc. 55 ft. over a general SW. slope. |
| 52.00 | Head of wash, drains SW.; slope changes to W. |
| 62.00 | Wash, 40 lks. wide, 3 ft. deep, drains SW.; slope changes to SE. |
| 76.80 | Dim rut road, bears NW. and SE. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.<br><br>T38S R16E<br>S21 \| S22<br>S28 \| S27<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling, general SW. drainage.<br>Soil, sandy with some sandstone outcrops.<br>Timber, none; undergrowth, scattered blackbrush and cacti. |
| | N. 0° 02' W., bet. secs. 21 and 22.<br><br>Asc. 70 ft. over a general S. slope to ¼ sec. cor. |
| 4.50 | Wash, 50 lks. wide, 3 ft. deep, drains SE. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |

| Chains | Notes |
|---|---|
| | ¼<br>S 21 \| S 22<br>1956 |
| | No suitable accessories available. |
| | Continue to asc. 60 ft. over general S. slope. |
| 42.40 | Dim rut road, bears NE. and SW. |
| 46.80 | Wash, 20 lks. wide, 2 ft. deep, drains SW. |
| 65.00 | Sandy spur, sloping W.; desc. 20 ft. over sandy N. slope. |
| 77.00 | Wash, 20 lks. wide, 2 ft. deep, drains W. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T38S R16E<br>S16 \| S15<br>S21 \| S22<br>1956 |
| | No suitable accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, none. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over low rolling land. |
| 16.00 | Wash, 50 lks. wide, 3 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | ¼<br>S 16 \| S 15<br>1956 |
| | No suitable accessories available. |
| | Asc. 70 ft. over a general W. slope to sec. cor. |
| 60.00 | Wash, 90 lks. wide, 7 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |

Survey of a Portion of the Subdivision of T. 38 S., R. 16 E.

| Chains | |
|---|---|
| | T38S R16E<br>S9 \| S10<br>S16 \| S15<br>1956 |
| | No suitable accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy with sandstone outcrops.<br>Timber, none; undergrowth, scattered blackbrush. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over rolling land. |
| 30.50 | Wash, drains S. 20° E. |
| 36.60 | Graded dirt road, bears NE. and SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | ¼<br>S 9 \| S 10<br>1956 |
| | No suitable accessories available. |
| 61.00 | Wash, 20 lks. wide, 2 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | T38S R16E<br>S4 \| S3<br>S9 \| S10<br>1956 |
| | No suitable accessories available. |
| | Land, rolling, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate blackbrush and cacti. |
| | N. 0° 03' E., bet. secs. 3 and 4. |
| | Over broken to rolling land. |
| | By triangulation asc. 345 ft. |
| 8.00 | Base of vertical ledge, 200 ft. high, facing SE., bears NE. and SW. |
| 17.50 | Top of ascent on rim, bears S. 10° W. and S. 40° E.; continue to asc. 40 ft. over SW. slope. |

| Chains | |
|---|---|
| 31.00 | Top of ascent at head of wash, drains W. to SW.; desc. 40 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>¼<br>S 4 \| S 3<br>1956<br><br>No suitable accessories available.<br><br>Desc. 80 ft. over a general NW. slope, drainage changes to NW. |
| 65.40 | Rut road, bears NE. and SW. |
| 75.55 | Rim, on S. side of Red Canyon, with nearly vertical ledge, 150 ft. high, facing N., bears E. and W. |
| 79.92 | The cor. of secs. 3, 4, 33 and 34, on the north boundary of the township.<br><br>Land, broken to rolling, south 5½ miles general drainage is S. to SW., last ½ mile drainage is N. to NW.<br>Soil, sandy.<br>Timber, moderate to scattered juniper; undergrowth, moderate blackbrush. |
| | From the cor. of secs. 1, 2, 35 and 36, on the north boundary of the township.<br><br>S. 0° 01' E., bet. secs. 1 and 2.<br><br>Desc. 60 ft. over SW. slope to ¼ sec. cor. |
| 16.35 | Wash, 10 lks. wide, 2 ft. deep, drains SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br><br>¼<br>S 2 \| S 1<br>1956<br><br>Deposit a sandstone, 10x10x10 ins., mkd, with an X, alongside of post.<br><br>Continue to desc. 70 ft. over a general SW. slope. |
| 64.80 | Graded road, bears NE. and SW. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | T38S R16E<br>S2 \| S1<br>S11 \| S12<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, none. |
| | From the cor. of secs. 1, 6, 7 and 12, on the east boundary of the township, which is marked by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record.<br><br>N. 89° 50' W., bet. secs. 1 and 12.<br><br>Asc. 85 ft. over slight E. slope. |
| 33.00 | Top of ascent, on low spur, sloping N. |
| 40.01 | Point for the ¼ sec. cor. of secs. 1 and 12.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.<br><br>¼ S 1 / S 12<br>1956<br><br>No suitable accessories available.<br><br>Desc. 90 ft. over a general W. slope. |
| 79.50 | Wash, drains S. |
| 80.02 | The cor. of secs. 1, 2, 11 and 12.<br><br>Land, rolling, general S. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate blackbrush. |
| | From the cor. of secs. 2, 3, 34 and 35, on the north boundary of the township.<br><br>S. 0° 01' E., bet. secs. 2 and 3.<br><br>Asc. 20 ft. over slight NW. slope. |
| 20.35 | Rut road, bears NE. and SW. |
| 35.00 | Rim, with vertical ledge, 200 ft. high, facing SE., bears NE. and SW. |
| 38.00 | Base of talus slope, bears NE. and SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 3.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | ¼<br>S 3 \| S 2<br>1956 |
| | No suitable accessories available. |
| | Desc. 90 ft. to sec. cor., over a general S. slope. |
| 59.10 | Wash, 15 lks. wide, 3 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 2, 3, 10 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T38S R16E<br>S3 \| S2<br>S10 \| S11<br>1956 |
| | No suitable accessories available. |
| | Land, broken to rolling.<br>Soil, sandy.<br>Timber, moderate juniper in north ¼ mile; undergrowth, scattered blackbrush. |
| | From the cor. of secs. 1, 2, 11 and 12. |
| | N. 89° 52' W., bet. secs. 2 and 11. |
| | Over rolling land; desc. 30 ft. over a general W. slope. |
| 20.00 | Rut road, bears N. and S. |
| 30.00 | Graded dirt road, bears NE. and SW. |
| 36.00 | Rut road, bears NE. and SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | ¼ S 2 / S 11<br>1956 |
| | No suitable accessories available. |
| | Continue to desc. 85 ft. over general W. slope. |
| 74.70 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 80.00 | The cor. of secs. 2, 3, 10 and 11. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, none. |

| Chains | |
|---|---|
| | N. 89° 49' W., bet. secs. 3 and 10. |
| | Over rolling land; desc. 10 ft. over SW. slope. |
| 4.40 | Wash, 20 lks. wide, 2 ft. deep, drains S. |
| 7.15 | Wash, 15 lks. wide, 2 ft. deep, drains S. |
| 9.95 | Wash, 15 lks. wide, 3 ft. deep, drains S. |
| 15.00 | Wash, 25 lks. wide, 3 ft. deep, drains S. |
| 22.30 | Wash, 10 lks. wide, 2 ft. deep, drains SE.; asc. 10 ft. over rolling SE. slope. |
| 38.35 | Point selected for the witness ¼ sec. cor. of secs. 3 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | ¼ WC ← S 3 / S 10 / 1956 |
| | No suitable accessories available. |
| 39.95 | True point for the ¼ sec. cor. of secs. 3 and 10, falls in wash, 20 lks. wide, 3 ft. deep, drains SW., and on S. edge of rocky talus slope, where it is impractical to set the monument. |
| | Asc. 30 ft. along rocky talus slope. |
| 72.20 | Wash, 15 lks. wide, 3 ft. deep, drains S. to SE. |
| 74.05 | Wash, 20 lks. wide, 2 ft. deep, drains S. to SW. |
| 79.90 | The cor. of secs. 3, 4, 9 and 10. |
| | Land, rolling, with general S. drainage.<br>Soil, boulder strewn sand.<br>Timber, none; undergrowth, none. |
| | From the cor. of secs. 15, 16, 21 and 22. |
| | N. 89° 57' W., bet. secs. 16 and 21. |
| | Over low rolling land; desc. 30 ft. over a general W. slope. |
| 6.50 | Wash, 20 lks. wide, 3 ft. deep, drains NW. |
| 22.00 | Same wash, 20 lks. wide, 4 ft. deep, drains SW. from N. 85° E.; asc. 25 ft. over sandy E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼ S 16 / S 21 / 1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Continue to asc. 20 ft. over sandy E. slope. |
| 45.00 | Slope changes to SE. |
| 52.30 | Sandy spur, sloping SW.; desc. 55 ft. over a general NW. slope. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone outcrop, and supported in a mound of stone, 5 ft. base to top of post, with brass cap mkd.<br>T38S R16E<br>S17 \| S16<br>S20 \| S21<br>1956 |
| | No suitable accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy with sandstone outcrops.<br>Timber, none; undergrowth, none. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over rolling land; desc. 20 ft. over a general NW. slope. |
| 5.40 | Wash, 30 lks. wide, 4 ft. deep, drains W. |
| 12.50 | Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. 70 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>¼<br>S 17 \| S 16<br>1956 |
| | Deposit a sandstone, 8x10x10 ins., mkd. with an X, alongside the post. |
| | Continue to asc. 55 ft. over a general SE. slope. |
| 67.80 | Graded dirt road, bears NE. and SW.; slope changes to S. |
| 72.00 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br>T38S R16E<br>S8 \| S9<br>S17 \| S16<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered blackbrush. |
| | From the cor. of secs. 9, 10, 15 and 16. |
| | N. 89° 59' W., bet. secs. 9 and 16. |
| | Over rolling land; desc. 90 ft. over a general SW. slope. |
| 24.40 | Wash, 40 lks. wide, 4 ft. deep, drains SW. |
| 40.02 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | ¼ S 9 / S 16<br>1956 |
| | No suitable accessories available. |
| | Continue to desc. 40 ft. over general SW. slope. |
| 57.60 | A pond, 2 chains diam., 10 ft. deep, bears South, 5 chs. dist. |
| 63.45 | Graded dirt road, bears NE. and SW. |
| 71.40 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 79.80 | Wash, 10 lks. wide, 2 ft. deep, drains S. |
| 80.04 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate blackbrush and cacti. |
| | From the true point for the cor. of secs. 4, 5, 32 and 33, on the south boundary of the township, which is witnessed S. 89° 57' E., 0.70 chs. dist. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 39 S., R. 16 E., surveyed concurrently under this same group. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Asc. 50 ft. over a general S. slope. |
| 3.00 | Wash, 10 lks. wide, 2 ft. deep, drains SW. |
| 18.00 | Left bank of wash, with vertical ledge, 30 ft. high, facing NW., bears NE. and SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 32 and 33, falls in wash, 20 lks. wide, 3 ft. deep, drains SW., where it is impractical to set the monument. |

40.60 Point selected for the witness ¼ sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

¼
S 32 ↓ S 33
W C
1956

No suitable accessories available.

Asc. 140 ft. over rolling, general S. slope to sec. cor.

59.40 Sandy spur, sloping SW.

69.65 Rut road, bears NE. and SW.

80.00 Point for the cor. of secs. 28, 29, 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T38S R16E
S29 | S28
S32 | S33
1956

No suitable accessories available.

Land, rolling to broken, general SW. drainage.
Soil, sandy, with some sandstone outcrops.
Timber, thinly scattered juniper, north portion of mile; undergrowth, scattered blackbrush and cacti.

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From the cor. of secs. 27, 28, 33 and 34.

N. 89° 56' W., bet. secs. 28 and 33.

Desc. 130 ft. over a sandy, general NW. slope.

20.00 Wash, 40 lks. wide, 4 ft. deep, drains SW.

30.00 Wash, 20 lks. wide, 2 ft. deep, drains S.; asc. 90 ft. over a SE. slope.

39.97 Point for the ¼ sec. cor. of secs. 28 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.

¼ S 28 / S 33
1956

No suitable accessories available.

Continue to asc. 20 ft. over SE. slope.

| Chains | |
|---|---|
| 48.00 | Top of ascent on flat, sandy spur, sloping SW.; desc. 55 ft. over a general W. slope to sec. cor. |
| 65.50 | Rut road, bears NE. and SW. |
| 79.94 | The cor. of secs. 28, 29, 32 and 33. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered blackbrush and cacti. |
| | From the cor. of secs. 5, 6, 31 and 32, on the south boundary of the township. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Along broken E. rim of Steer Gulch; desc. 45 ft. over NW. slope. |
| 6.00 | Wash, 70 lks. wide, 12 ft. deep, drains W.; thence over broken land, general W. to NW. slope; asc. 50 ft. to ¼ sec. cor. |
| 34.00 | Wash, 100 lks. wide, 15 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>¼<br>S 31 \| S 32<br>1956 |
| | No suitable accessories available. |
| 44.90 | E. rim of Steer Gulch, with vertical ledge, 40 ft. high, facing W., bears N. and W. to SW. |
| 47.60 | E. rim of Steer Gulch, with vertical ledge, 40 ft. high, facing W., bears NW. and S. |
| 50.20 | E. rim of Steer Gulch, with vertical ledge, 60 ft. high, facing NW., bears NE. and SW. |
| 54.00 | Wash channel of Steer Gulch, drains SW. |
| 57.00 | W. rim of Steer Gulch, with vertical ledge, 60 ft. high, facing SE., bears NE. and SW. |
| 69.30 | W. rim of Steer Gulch, with vertical ledge, 50 ft. high, bears NW. and SE. |
| 72.00 | Wash channel of Steer Gulch, drains SE. |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32, falls on E. rim of Steer Gulch, with vertical ledge, 40 ft. high, facing W., bears NE. and SW., where it is impractical to set the monument. |
| | Land, broken, along Steer Gulch.<br>Soil, exposed sandstone over most of the mile.<br>Timber, scattered juniper; undergrowth, none. |

Chains

From the cor. of secs. 28, 29, 32 and 33.

N. 89° 58' W., bet. secs. 29 and 32.

Over rolling to broken land; desc. 30 ft. over a general W. slope to the ¼ sec. cor.

22.40 Wash, 30 lks. wide, 3 ft. deep, drains WSW.

28.50 Wash, 20 lks. wide, 2 ft. deep, drains SW.

40.02 Point for the ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., over an X cut into solid sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

¼ S 29 / S 32
1956

No suitable accessories available.

Desc. 150 ft. over sandy general W. slope to sec. cor.

67.00 Head of wash, drains SW.

80.04 True point for the cor. of secs. 29, 30, 31 and 32.

Land, rolling to broken, general SW. drainage.
Soil, sandy, with large areas of exposed sandstone bedrock.
Timber, none; undergrowth, moderate to heavy blackbrush, with some cacti.

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From the true point for the cor. of secs. 29, 30, 31 and 32.

West, bet. secs. 30 and 31.

2.00 Wash channel of Steer Gulch, drains S. to SW.; asc. 40 ft. over sandy E. slope.

2.80 Top of ledge, 30 ft. high, facing E., bears N. and S.

3.24 Point selected for the witness cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T38S R16E
S30 | S29 → WC
S31 | S32
1956

No suitable accessories available.

Continue to asc. 10 ft. over sandy E. slope.

4.50 W. rim of Steer Gulch, bears NW. and S.; desc. 90 ft. over a general W. slope to the ¼ sec. cor.

Survey of a Portion of the Subdivision of T. 38 S., R. 16 E.

| Chains | |
|---|---|
| 40.00 | Point for the ¼ sec. cor. of secs. 30 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |
| | ¼ S 30 / S 31 / 1956 |
| | No suitable accessories available. |
| | Continue to desc. 35 ft. over a general W. slope. |
| 44.05 | Wash, 25 lks. wide, 3 ft. deep, drains S. to SW. |
| 57.10 | Wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 65.80 | Graded road, bears NE. and SW. |
| 78.74 | True point for the cor. of secs. 25, 30, 31 and 36. |
| | Land, broken to rolling, general S. drainage.<br>Soil, sandy, with sandstone outcrops.<br>Timber, thinly scattered juniper west portion of mile; undergrowth, moderate blackbrush and cacti. |

## General Description

The physiography of T. 38 S., R. 16 E. is dominated by two types of land forms. The northwest portion is a high mesa, which faces southeast and bears southwest and northeast, entering the township at the north boundary in the NW¼ of section 2 and leaving the township on the west boundary in the NW¼ of section 19. The remaining land of the township is low rolling hills. Both of these areas are cut by deep canyons and washes in several places. The general elevation ranges from about 5000 feet above sea level in the southwest corner of the township to 5670 feet in the northwest portion. With the exception of two small areas in sections 3 and 4 which drain north into Red Canyon, the drainage of the township is southwest by way of Steer and Grand Gulches and their tributaries. Steer Gulch heads in the area of section 7 and drains south, leaving the township at the south boundary in the SE¼ of section 31. The east and southeast portions of the township drain south and southeast by way of Grand Gulch and its tributaries. The residual sandy soil varies in depth throughout the township. The land bordering on the washes and canyons is exposed bedrock, while the central, east, and on top of the mesa where erosion has been less active, the soil is several feet deep.

The vegetational cover consists of a scattered growth of juniper and a moderate to scattered growth of artemisia. The gamma grass, which appears to be of a moderate cover in years of sufficient rainfall, attained little growth this season due to the drought now prevailing in the area. There are three springs in the township, one each in sections 32, 33, and 18. The quantity of water from the springs in sections 32 and 33 was little more than a trickle sinking into the ground a short distance from its source. Red House Spring located in section 18 is equipped with a hand pump.

Chains

At the beginning of the season water in small quantities was obtained from the spring, but toward the middle of July, pumping failed to produce even the smallest amount of water. Whether the spring went dry or the line was filled with dirt is unknown. The pond located in section 16 contained water at intervals throughout the time the survey was in progress in the area.

Development of the township thus far consists of an improved (graded and drained) access road which bears southwest 7 miles from a junction with State Highway 95, 49 miles west of Blanding, Utah, to the east boundary of the township near the ¼ section corner of sections 1 and 6, thence southwest 4 miles to Red House Spring and a junction. Northwest fork is an access road to Red Canyon. The south fork continues south and southwest 3 miles to the west boundary of the township near the ¼ section corner of sections 31 and 36, thence southwest approximately 18 miles to the San Juan River. Approximately one half mile east of Red House Spring there is a graded air strip, bearing north from the access road 25 chains distance. There are a few unimproved mineral claims in the township but no patented claims or producing mines. The only economic productivity of the land is in winter grazing of cattle.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Jim H. Tyer | Note-keeper |
| Maurice L. Hinton | Frontchainman |
| Darwin P. Russell | Cornerman |
| Dell (NMN) Cazier | Flagman |
| William E. Brickey | Axeman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13 day of May, 1955 I have surveyed the North and West boundaries and a portion of the subdivision of Township 38 South, Range 16 East.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City Utah
Jan. 4, 1957

Phil D. Smith
Phil D. Smith, Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
*Washington, D. C.,* JUL 23 1957, *19*

The foregoing field notes of the survey of the North and West boundaries and a portion of the subdivision of Township 38 South, Range 16 East, of the Salt Lake Meridian.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
*Cadastral Engineering Staff Officer.*

## ~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-2

4—979
(September 1948)

1.17

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY

OF

THE EAST, WEST AND NORTH BOUNDARIES

AND

A PORTION OF THE SUBDIVISION

AND

MEANDERS OF THE COLORADO RIVER THROUGH SEC. 36

OF

TOWNSHIP 39 SOUTH, RANGE 10 EAST

*Of the* SALT LAKE *Meridian,*

*In the State of* UTAH

EXECUTED BY

| | |
|---|---|
| Vern E. Lane | Cadastral Surveyor (Chief of Party) |
| Boyd S. Owens | Cartographic Survey Aid |
| Fred R. Chappell | Cadastral Surveyor |
| Craig P. Sylvester | Cartographic Survey Aid |
| A. D. Griffin | Cartographic Survey Aid |

*Under special instructions dated* August 27, *19* 56, *which provided for the surveys included under Group No.* 404, *approved* November 7, 1956 *and assignment instructions dated* July 30, *19*57

*Survey commenced* August 19, *1957*

*Survey completed* September 17, *1957*

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 10 East

| | | | | | |
|---|---|---|---|---|---|
| 15<br>11 6 | 15<br>5 | 14<br>4 21 | 13<br>3 | 12<br>24 2 22<br>23 | 11<br>1 6 |
| 10 7 | 8 | 9 21 | 10 | 11 | 12 5 |
| 9 18 | 17 | 25<br>25 16 20<br>24 | 15 | 14 | 13 4 |
| 9 19 | 20 | 21 19 | 22 | 23 | 24 3 |
| 8 30 | 29 | 28 18 | 27 | 26 | 25 2 |
| 7 31 | 28<br>27 32 26 | 33 17 | 34 | 35 | 17<br>16 36 2 |

16—66770-1

Boyd S. Owens _____
Fred R. Chappell _____
A. D. Griffin _____
Craig Sylvester _____

Meanders of the Colorado River through sec. 36 were surveyed by Boyd S. Owens and are shown on page 29.

2330

Chains

The south boundary was surveyed concurrently under Group 404, by Boyd S. Owens and its record appears in the field notes of the survey of T. 40 S., R. 10 E.

The following field notes are those of the survey of the east, west and north boundaries and a portion of the subdivision of T. 39 S., R. 10 E. deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections normally considered State school sections.

The survey was executed with four W. and L. E. Gurley transits Nos. 541325, 541327, 461263 and 541331, conforming to the standard instrumental specifications of the Bureau of Land Management. The instruments were maintained in precise adjustment throughout the progress of the survey.

The directions of the lines of survey were determined by sustained angulation carried forward from true meridians established on line by hour angle observations on Polaris or altitude observations on the sun, being supplemented by other numerous observations on the sun for azimuth taken throughout the progress of the survey.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method but for simplification of the record the random lines are omitted from these field notes. In accordance with the intent of the special instructions all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with narrow steel tapes, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tapes were tested by comparison with a one-chain standard tape and found to be correct. All measurements were made on the slope and the vertical angle of each interval ascertained by a clinometer in good adjustment; the horizontal equivalents alone are entered in the field note record. All lines of this survey were run by direct method where the lines were accessible, lines inaccessible were run by traverse or triangulation methods. Distances to topography features on lines run by traverse or triangulation are approximate as scaled from U. S. G. S. topographic sheets. The details of such traverse or triangulation have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The geographic position for the southeast corner of T. 39 S., R. 10 E. is at latitude 37° 20' 45.3" N. and longitude 110° 44' 43.7" W. as adjusted from traverse to U. S. G. S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of the several readings was found to be 15° east.

East Boundary, T. 39 S., R. 10 E.

Counting dist. from the true point for the cor. of Ts. 39 and 40 S., Rs. 10 and 11 E.; from which the meander cor. of secs. 1 and 6, on the left bank of the Colorado River bears S. 0.57 chs. dist. and is monumented by an iron post, 2½ ins. diam., mkd., set and witnessed as described in the field notes of the survey of T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | North, bet. secs. 31 and 36. |
| | By triangulation, cross the Colorado River, course NW. |
| 19.34 | Mean high water level, on the right bank of the Colorado River. |
| | Point for the meander cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>S36 \| S31<br>M C<br>1957 |
| | Asc. about 160 ft. over ledgy SW. facing slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>¼<br>S36 \| S31<br>1957 |
| | Asc. about 80 ft. over SW. slope. |
| 50.00 | Base of ledge; bears irregularly E. and W.; asc. about 300 ft. |
| 56.00 | North rim of Glen Canyon, bears irregularly E. and W.; asc. about 80 ft. over steep S. slope. |
| 65.10 | End of triangulation; asc. 80 ft. along broken E. slope of sandstone dome. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>S25 \| S30<br>S36 \| S31<br>1957 |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered blackbrush, tamerisk along river bottom. |
| | North, bet. secs. 25 and 30. |
| | Over broken ledgy land. |

| Chains | |
|---|---|
| | Asc. 370 ft. over broken, ledgy S. slope. |
| 28.50 | Spur, projecting W.; desc. 200 ft. over steep broken NW. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 25 and 30 falls on steep NW. sloping slickrock, where the monument cannot be perpetuated. |
| | Desc. 20 ft. over steep NW. slope. |
| 42.90 | Point selected for the witness ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>¼<br>S25 \| S30<br>W C<br>1957 |
| | Cor. is located at base of ledge facing SW. |
| | Desc. 105 ft. along broken W. slope. |
| 47.50 | Draw, drains W.; asc. 110 ft. over SW. slope. |
| 60.30 | Spur, projects NW.; by triangulation desc. about 300 ft. over ledgy W. slope. |
| 74.00 | Wash in bottom of narrow canyon, drains N. 30° W.; asc. about 240 ft. over S. facing ledge. |
| 80.00 | Spur, projects W. |
| | Point for the cor. of secs. 19, 24, 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>S24 \| S19<br>S25 \| S30<br>1957 |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered blackbrush. |
| | North, bet. secs. 19 and 24. |
| | Over broken land, with a general W. slope. |
| | Desc. about 160 ft. over ledgy N. slope. |
| 5.00 | Draw, drains W.; asc. about 170 ft. over ledgy S. slope. |
| 10.50 | Spur, projects W.; desc. about 400 ft. along broken W. slope. |
| 32.00 | Wash, drains irregularly E. from S. 30° W.; asc. about 400 ft. over steep ledgy S. slope. |

| Chains | Notes |
|---|---|
| 35.00 | Rim, bears irregularly E. and W.; asc. 40 ft. over broken S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>¼<br>S24\|S19<br>1957 |
| | Asc. about 80 ft. over ledgy S. slope. |
| [illegible].00 | Sandstone dome; desc. about 90 ft. over steep N. sloping slickrock. |
| [illegible].00 | Swale, bet. domes; asc. about 100 ft. over S. sloping slickrock. |
| [illegible].00 | Sandstone dome, thence over rounded top. |
| 55.60 | West rim of Glen Canyon, bears NW. and SE.; desc. 240 ft. over NE. facing ledge. |
| [illegible].00 | Base of ledge; thence desc. about 240 ft. over steep NE. sloping slickrock. |
| 67.50 | Approx. position of the right bank of the Colorado River, bears NW. and SE., thence cross the Colorado River. |
| 80.00 | Point for the cor. of secs. 13, 18, 19 and 24 is in the Colorado River. |
| | Land, broken, with spurs, knobs and pinnacles.<br>Soil, shallow sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, none. |
| | North, bet. secs. 13 and 18. |
| | Cont. across the Colorado River. |
| [illegible].00 | Approx. position of the left bank of the Colorado River, bears NW. and SE. |
| | Note: Both the left and right banks along this portion of the Colorado River are inaccessible and were not occupied. |
| | Asc. about 320 ft. along ledgy SW. slope. |
| [illegible].00 | True point for the ¼ sec. cor. of secs. 13 and 18 falls on steep N. slope of sandstone knob, where the monument cannot be perpetuated; desc. about 20 ft. over N. slope. |
| [illegible].00 | Point selected for the witness ¼ sec. cor. of secs. 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T39S<br>R10E R11E<br>¼<br>S13\|S18<br>W C<br>1957 |

| Chains | |
|---|---|
| | Asc. about 130 ft. along ledgy W. slope. |
| 55.40 | Slope changes to NW.; desc. about 160 ft. along ledgy NW. slope. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T39S<br>R10E R11E<br>S12 \| S 7<br>S13 \| S18<br>1957<br><br>Land, broken ledges and domes.<br>Soil, shallow sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, none. |
| | North, bet. secs. 7 and 12. |
| | Over rough broken land. |
| | Desc. about 100 ft. over steep N. sloping slickrock. |
| 13.20 | Point selected for the witness meander cor. of secs. 7 and 12 for the left bank of the Colorado River. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>WMC<br>S12 \| S 7<br>R10E R11E<br>T39S<br>1957 |
| 13.90 | Canyon rim, bears S. 80° E. and S. 70° W.; desc. abruptly about 200 ft. over N. facing ledge. |
| 14.00 | Mean high water level on the left bank of the Colorado River, course S. 70° W. |
| | Point for the meander cor. of secs. 7 and 12, falls on the face of N. facing ledge where it is impractical to set the monument; thence cross river. |
| 30.96 | Mean high water level on the right bank of the river. |
| | Point for the meander cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.<br><br>T39S<br>R10E R11E<br>S12 \| S 7<br>M C<br>1957 |
| | No suitable accessories available. |

| Chains | |
|---|---|
| | Asc. about 240 ft. over steep S. sloping slickrock. |
| 39.00 | Base of ledge; asc. about 80 ft. over S. facing ledge. |
| 40.00 | True point for the ¼ sec. cor. of secs. 7 and 12 falls on face of S. facing ledge where it is impractical to set the monument; asc. about 240 ft. over S. facing ledge. |
| 46.00 | Canyon rim, bears E. and W. |
| | Point selected for the witness ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |

T39S
R10E R11E
¼
S12 | S 7
W C
1957

| Chains | |
|---|---|
| | End of triangulation; asc. 200 ft. over broken SE. slope. |
| 58.40 | Spur, projects NE.; desc. 20 ft. over gentle NW. slope. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground to bedrock and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |

T39S
R10E R11E
S 1 | S 6
S12 | S 7
1957

Land, S. ½ rough broken breaks of the Colorado River; N. ½ rolling to broken.
Soil, sandy, with exposed sandstone.
Timber, none.
Undergrowth, heavy black brush N. ½ mile.

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| Chains | |
|---|---|
| | North, bet. secs. 1 and 6. |
| | Over rolling land, with a gentle N. slope. |
| | Desc. 110 ft. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |

T39S
R10E R11E
¼
S 1 | S 6
1957

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Cont. to desc. 50 ft. over gentle N. slope. |

East Boundary, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| 80.00 | Point for the cor. of Ts. 38½ and 39 S., Rs. 10 and 11 E. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T38½S<br>R10E R11E<br>S36 \| S31<br>S 1 \| S 6<br>T39S<br>1957 |
| | Land, rolling.<br>Soil, sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, heavy black brush. |

West Boundary, T. 39 S., R. 10 E.

| | |
|---|---|
| | Counting dist. from the true point for the cor. of Ts. 39 and 40 S., R. 10 E., from which its witness cor. bears S. 4.20 chs. dist., monumented by an iron post, 2½ ins. diam., mkd., set and witnessed as described in the field notes of the survey of T. 40 S., R. 10 E. |
| | North, along W. bdy. of sec. 31. |
| | Over rough and broken breaks in Colorado River canyon; by triangulation desc. about 560 ft. over S. wall of the canyon. |
| 9.00 | The approx. position of the left bank of the Colorado River; this portion of the Colorado River was not occupied. Thence across the Colorado River, course N. 60° W. from SE. |
| 15.50 | The approx. position of the right bank of the Colorado River; asc. about 500 ft. over N. wall of canyon. |
| 26.00 | North rim of the Colorado River canyon, bears N. 75° W. and S. 75° E.; asc. about 160 ft. over steep SW. slope. |
| 39.90 | Point selected for the witness ¼ sec. cor. of sec. 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>¼<br>W C<br>↑S31<br>1957 |
| 40.00 | True point for the ¼ sec. cor. of sec. 31 falls on side of steep sandstone outcrop where cor. cannot be perpetuated; asc. about 80 ft. |
| 45.00 | Spur, projects SW.; desc. about 250 ft. along ledges on W. changing to NW. slope. |
| 72.00 | Small wash, drains SW.; asc. about 210 ft. over steep SE. slope. |
| 80.00 | Point for the cor. of secs. 30 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |

West Boundary, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | T39S<br>R9½E R10E<br>S30<br>S31<br>1957<br><br>Land, rough and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | North, along the W. bdy. of sec. 30. |
| | Over ledgy broken land. |
| | Asc. about 200 ft. over steep ledgy SE. slope. |
| 2.50 | Spur, projects SW.; desc. about 200 ft. over ledgy NW. slope. |
| 10.00 | Draw, drains SW.; asc. about 370 ft. over ledgy SE. slope. |
| 32.00 | Spur, projects S. 30° W.; desc. abruptly about 160 ft. along steep ledgy NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of sec. 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>¼<br>S30<br>1957 |
| | Desc. about 170 ft. over steep ledgy NW. slope. |
| 50.00 | Wash, drains SW. about 32 chs. to its junction with the wash in the bottom of Long Canyon; asc. about 160 ft. over ledgy SE. slope. |
| 60.00 | Spur, projects SW.; desc. about 80 ft. over steep NW. slope. |
| 69.00 | Wash, near head, drains SW.; asc. about 240 ft. over steep, ledgy SE. slope. |
| 80.00 | Point for the cor. of secs. 19 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>S19<br>S30<br>1957 |
| | Land, broken.<br>Soil, shallow sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |

West Boundary, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | North, along the W. bdy. of sec. 19. |
| | Over ledgy broken land. |
| | Asc. about 160 ft. over steep ledgy SE. slope. |
| 7.00 | Spur, projects SW.; desc. about 380 ft. over steep ledgy NW. slope. |
| 24.00 | Small wash, drains SW.; asc. about 380 ft. over steep ledgy S. slope |
| 36.50 | Spur, projects W.; desc. about 80 ft. over ledgy N. slope. |
| 40.00 | True point for the ¼ sec. cor. of sec. 19 falls on face of N. facing ledge where it is impractical to set the monument. |
| | Desc. about 80 ft. over N. facing ledge. |
| 42.00 | Point selected for the witness ¼ sec. cor. of sec. 19. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>¼<br>↓S19<br>W C<br>1957 |
| | Desc. about 170 ft. over steep NW. slope. |
| 49.50 | Wash, drains S. 60° W.; asc. about 90 ft. over steep SW. slope. |
| 58.00 | Spur, projects sharply SW.; desc. about 80 ft. along NW. slope. |
| 70.00 | Point selected for the witness cor. of secs. 18 and 19. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>WC↑S18<br>S19<br>1957 |
| | Cont. to desc. about 60 ft. over steep NW. slope. |
| 75.50 | Wash, in bottom of Long Canyon, drains irregularly S. 30° W. from N. 35° E.; asc. about 120 ft. over steep ledgy SE. slope. |
| 80.00 | True point for the cor. of secs. 18 and 19 falls on inaccessible SE. facing ledge where it is impractical to set the monument. |
| | Land, rough and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, none.<br>Undergrowth, medium black brush and grass. |
| | North, along the W. bdy. of sec. 18. |
| | Over rough and broken land; asc. about 350 ft. over steep ledgy SE. slope. |
| 32.30 | West rim of Long Canyon, bears N. 10° E. and S. 30° W. End of triangulation. |

| Chains | |
|---|---|
| | Thence asc. 10 ft. over rolling and broken S. slope, through scattered juniper. |
| 40.00 | Point for the ¼ sec. cor. of sec. 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>¼<br>S18<br>1957 |
| | Cont. to asc. 60 ft. over rolling S. slope. |
| 80.00 | Point for the cor. of secs. 7 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>S 7<br>S18<br>1957 |
| | Land, rolling and exposed sandstone.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered juniper.<br>Undergrowth, scattered black brush and grass. |
| | North, along the W. bdy. of sec. 7. |
| | Over rolling exposed sandstone, through scattered juniper. |
| | Asc. 70 ft. over gentle S. slope. |
| 40.00 | Point for the ¼ sec. cor. of sec. 7. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>¼<br>S 7<br>1957 |
| | Asc. 60 ft. over rolling exposed sandstone, through moderate juniper. |
| 80.00 | Point for the cor. of secs. 6 and 7. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone to top, with brass cap mkd. |
| | T39S<br>R9½E R10E<br>S 6<br>S 7<br>1957 |

West Boundary, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | Land, rolling and exposed sandstone.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered to moderate juniper.<br>Undergrowth, scattered black brush, grass and Brigham tea. |
| | North, along the W. bdy. of sec. 6. |
| | Over rolling and exposed sandstone, through scattered juniper. |
| | Asc. 110 ft. over general S. slope. |
| 40.00 | Point for the ¼ sec. cor. of sec. 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T39S<br>R9½E R10E<br>¼<br>\|S 6<br>1957 |
| | Cont. over rolling land, through moderate juniper. |
| | Asc. 30 ft. over general S. slope. |
| 54.80 | Top of ascent, W. rim of Long Canyon, bears irregularly S. 10° E. and N. 10° W. |
| | Desc. about 300 ft. over ledge facing N. 80° E. |
| 80.00 | True point for the cor. of Ts. 38½ and 39 S., R. 10 E. falls on W. wall of Long Canyon where the monument cannot be perpetuated. |
| | Point selected for the witness cor. of Ts. 38½ and 39 S., R. 10 E., bears S. 89° 56' W., 8.00 chs. dist. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T39S T38½S<br>R9½E R10E<br>\|S31 W<br>\|S 6 C<br>T39S<br>1957 |
| | Land, rolling and broken to ledgy.<br>Soil, shallow sand and exposed sandstone.<br>Timber, moderate juniper.<br>Undergrowth, scattered black brush and grass. |

North Boundary, T. 39 S., R. 10 E.

From the cor. of Ts. 38½ and 39 S., Rs. 10 and 11 E.

S. 89° 56' W., bet. secs. 1 and 36,

Over rolling land.

| Chains | |
|---|---|
| | Desc, 40 ft. over rolling exposed sandstone, general N. exposure and drainage. |
| 12.50 | Bottom of descent; asc. 170 ft. over broken E. slope. |
| 23.60 | Top of spur, projects irregularly N. from S.; desc. 150 ft. over broken W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |

T38½S R10E
¼ S36
S 1
T39S
1957

| | |
|---|---|
| | Desc. 20 ft. over broken W. slope. |
| 50.90 | Bottom of broken W. slope; desc. 30 ft. over rolling land. |
| 71.20 | Wash, 50 lks. wide, 2 ft. deep, drains NE.; asc. 60 ft. over rolling and broken SE. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone to top, with brass cap mkd. |

T38½S R10E
S35 | S36
S 2 | S 1
T39S
1957

| | |
|---|---|
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, none.<br>Undergrowth, moderate black brush on spur top, scattered black brush and Brigham tea throughout remainder of mile. |

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| | |
|---|---|
| | S. 89° 56' W., bet. secs. 2 and 35. |
| | Over rolling and broken land; asc. 30 ft. over SE. slope. |
| 3.00 | Top of ridge, bears NE. and SW.; desc. 160 ft. over broken NW. slope. |
| 25.00 | Wash, 20 lks. wide, 2 ft. deep, drains NE.; asc. 180 ft. over general SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |

T38½S R10E
¼ S35
S 2
1957

| Chains | |
|---|---|
| | The ¼ sec. cor. is located at the top of the ascent. |
| | Desc. 60 ft. over rolling and broken sandstone facing W. to NW. |
| 58.60 | Base of sandstone dome; asc. 100 ft. over general SE. slope. |
| 71.20 | Top of ascent; desc. 40 ft. over rolling and broken sandstone facing W. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T38½S R10E<br>S34 \| S35<br>S 3 \| S 2<br>T39S<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush and Brigham tea. |
| | S. 89° 56' W., bet. secs. 3 and 34. |
| | Over rolling and broken land; desc. 10 ft. over general W. slope. |
| 2.00 | Narrow sandstone gulch, about 60 ft. deep, drains NE., thence over rolling land. |
| 21.70 | Base of broken ledgy slope facing E.; asc. 160 ft. |
| 40.00 | Sandstone knob. |
| | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T38½S R10E<br>¼ S34<br>S 3<br>T39S<br>1957 |
| | By triangulation, desc. about 80 ft. over ledgy W. slope. |
| 44.00 | Bottom of descent, thence over gently rolling land. |
| 65.00 | Base of sandstone point; asc. about 440 ft. over steep E. slope. |
| 78.30 | Top of sandstone point projecting SE.; desc. about 60 ft. over steep W. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock and in a mound of stone, 5 ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T38½S R10E<br>S33 \| S34<br>S 4 \| S 3<br>T39S<br>1957 |
| | The sec. cor. is located on the W. side of a short draw draining S., bet. sandstone domes.<br><br>Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | S. 89° 56' W., bet. secs. 4 and 33.<br><br>Over broken and ledgy land; asc. about 140 ft. over steep E. slope of sandstone dome. |
| 7.00 | E. rim of canyon, bears NW. and SE.; desc. about 360 ft. over precipitous slope facing SW. |
| 14.00 | Wash, drains SE. for approx. 5.00 chs., thence E.; asc. about 520 ft. over slope and ledges facing generally E. |
| 37.50 | Top of ascent; end of triangulation; desc. 30 ft. over steep W. slope. |
| 38.60 | Draw, drains S.; asc. 30 ft. over E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T38½S R10E<br>¼ S33<br>S 4<br>T39S<br>1957 |
| | Asc. 240 ft. over general E. slope through scattered juniper. |
| 77.70 | Top of ascent; desc. 20 ft. over rolling sandstone rib. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T38½S R10E<br>S32 \| S33<br>S 5 \| S 4<br>T39S<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush, Brigham tea and grass. |

North Boundary, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | S. 89° 56' W., bet. secs. 5 and 32. |
| | Over gently rolling land; through scattered juniper and pinion. |
| 16.30 | Leave timber; asc. 50 ft. over gentle SE. slope through moderate black brush and Brigham tea. |
| 35.40 | Top of ascent; desc. 20 ft. over SW. slope, enter trees. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T38½S R10E<br>¼ S32 / S 5<br>T39S<br>1957 |
| | Desc. 170 ft. over broken and rolling SW. slope. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T38½S R10E<br>S31 \| S32<br>S 6 \| S 5<br>T39S<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, scattered juniper and pinion.<br>Undergrowth, moderate to scattered black brush and Brigham tea. |
| | S. 89° 56' W., bet. secs. 6 and 31. |
| | Over rolling and broken land; desc. 100 ft. over general SW. exposure and drainage. |
| 37.80 | Point selected for the witness ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T38½S R10E<br>W. S31<br>¼ C S 6<br>T39S<br>1957 |
| 40.00 | True point for the ¼ sec. cor. of secs. 6 and 31 falls on steep E. slope of draw draining S. where cor. cannot be perpetuated. |
| | Cont. to desc. 50 ft. over rolling and broken exposed sandstone. |
| 56.20 | E. rim of Long Canyon; bears irregularly N. and S.; thence by triangulation desc. about 400 ft. over ledges and slope facing W. |

| Chains | | Chains |
|---|---|---|
| 66.00 | Wash, in bottom of Long Canyon, drains irregularly S.; asc. about 200 ft. over general E. slope. | |
| 79.10 | True point for the cor. of Ts. 38½ and 39 S., R. 10 E., from which its witness cor. bears S. 89° 56' W., 8.00 chs. dist. | |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush and Brigham tea. | |

Portion of the Subdivision of T. 39 S., R. 10 E.

From the cor. of secs. 1, 2, 35 and 36 on the S. bdy., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of T. 40 S., R. 10 E.

N. 0° 01' W., bet. secs. 35 and 36.

Over rolling and broken land.

Desc. 110 ft. over ledgy N. slope.

4.00 Wash, drains N. 70° E.; asc. 260 ft. over ledgy S. slope.

24.90 Spur, projects S. from NE.; desc. 150 ft. along ledgy W. slope.

40.00 True point for the ¼ sec. cor. of secs. 35 and 36 falls on steep W. sloping slickrock where the monument cannot be perpetuated.

Point selected for the witness ¼ sec. cor. of secs. 35 and 36, bears W. 2.74 chs. dist.

At this point,

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T39S R10E
¼
S35|S36 -- WC
1957

Witness cor. is located near bottom of draw draining N.

Cont. to desc. 160 ft. along steep W. sloping slickrock.

47.00 S. rim of canyon, bears irregularly E. and W.; thence by triangulation desc. about 280 ft. over ledgy N. slope.

58.00 Wash, in bottom of canyon, drains E.; asc. about 360 ft. over ledgy S. slope.

63.00 End of triangulation on N. rim of canyon, bears irregularly E. and W.; thence asc. 60 ft. along ledgy W. slope.

80.00 True point for the cor. of secs. 25, 26, 35 and 36 falls on steep W. sloping slickrock where the monument cannot be perpetuated.

Point selected for the witness cor. of secs. 25, 26, 35 and 36, bears N. 89° 54' E., 3.71 chs. dist.

At this point,

Portion of the Subdivision, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T39S R10E<br>W S26 \| S25<br>C S35 \| S36<br>1957<br><br>Land, rough and broken.<br>Soil, shallow sand with exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | From the cor. of secs. 25, 30, 31 and 36 on the E. bdy.<br><br>S. 89° 54' W., bet. secs. 25 and 36.<br><br>Over broken ledgy land.<br><br>Asc. 300 ft. over ledgy E. slope. |
| 30.60 | Top of ascent; desc. 60 ft. over rolling and broken W. slope. |
| 40.08 | Point for the ¼ sec. cor. of secs. 25 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T39S R10E<br>¼ S25<br>S36<br>1957<br><br>Cont. to desc. 130 ft. over ledgy W. slope. |
| 57.00 | Draw, drains S.; asc. 120 ft. over E. sloping slickrock of sandstone dome. |
| 64.20 | Top of ascent, thence over top of dome. |
| 68.40 | W. edge of dome, thence desc. 70 ft. over ledgy NW. slope. |
| 76.45 | The witness cor. of secs. 25, 26, 35 and 36; slope changes; desc. 80 ft. over steep ledgy W. slope. |
| 80.16 | The true point for the cor. of secs. 25, 26, 35 and 36.<br><br>Land, broken.<br>Soil, shallow sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, thinly scattered black brush. |
| | From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., monumented as described in the field notes of the concurrent survey of T. 40 S., R. 10 E.<br><br>N. 0° 02' W., bet. secs. 33 and 34. |

| Chains | |
|---|---|
| | Over broken and eroded sandstone ledges; asc. 110 ft. over SE. slope through scattered juniper. |
| 7.00 | S. rim of low mesa, bears E. and W., thence over nearly level mesa. |
| 13.00 | N. rim of mesa, bears E. and W.; desc. 90 ft. over broken N. slope. |
| 21.90 | Wash, 2 ft. deep, 40 lks. wide, drains SW ; asc. 90 ft. over ledges on broken SE. slope. |
| 30.50 | Point selected for the witness ¼ sec. cor. of secs. 33 and 34, on bare level sandstone shelf, 40 lks. wide, projecting NW., at base of steep S. slope. |
| | Set an iron post, 2½ ins. diam., 30 ins. long, over a cross (X) cut in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>W C<br>S33↑S34<br>1957 |
| | Cont. over a series of high, steep sandstone domes and deeply cut ravines; asc. 215 ft. over S. slope of dome. |
| 38.60 | Top of dome; desc. 20 ft. over smooth N. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 33 and 34 falls on the steep smooth N. slope of a sandstone dome where the monument cannot be perpetuated. |
| | Cont. over smooth steep sandstone; desc. 125 ft. over N. slope. |
| 45.30 | Deep canyon, drains SW.; asc. 225 ft. over broken S. slope. |
| 59.60 | Spur, projecting SW.; desc. 170 ft. over sandstone ribs and knobs on NW. slope. |
| 78.00 | Wash, drains SW.; asc. 20 ft. over S. slope. |
| 80.00 | True point for the cor. of secs. 27, 28, 33 and 34 falls on steep S. slope where the monument cannot be perpetuated. |
| | Land, deeply eroded sandstone domes, ravines and knobs.<br>Soil, sandy in washes and hollows.<br>Timber, juniper and some pinion in hollows and ravines.<br>Undergrowth, yucca, black brush, grass in washes and hollows. |
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Over a series of eroded sandstone domes and ravines, through a scattering of juniper and pinion in the hollows; asc. 25 ft. over S. slope. |
| 1.05 | Point selected for the witness cor. of secs. 27, 28, 33 and 34, on top of a small rib projecting SW. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd. |

Portion of the Subdivision, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | T39S R10E<br>S28 \| S27<br>S33 \| S34<br>W C<br>1957 |
| 9.30 | S. rim of a rincon; desc. 200 ft. over sandstone ledge. |
| 13.00 | Base of descent, thence over rolling valley floor through a light growth of juniper and pinion. |
| 37.60 | Base of ascent; asc. 80 ft. over broken sandstone along SE. slope of rincon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28, on steep SE. slope of rincon.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R10E<br>¼<br>S28 \| S27<br>1957<br><br>Cont. to asc. 130 ft. along SE. slope. |
| 52.00 | NW. rim of rincon, bears NE. and SW.; asc. 70 ft. over rolling and broken S. slope, through a scattering of juniper and pinion. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28, on broken S. slope.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R10E<br>S21 \| S22<br>S28 \| S27<br>1957<br><br>Land, broken and ledgy sandstone.<br>Soil, sandy.<br>Timber, juniper and pinion.<br>Undergrowth, black brush, mountain rush, yucca and grass. |
| | N. 0° 02' W., bet. secs. 21 and 22.<br><br>Over broken sandstone outcrops; asc. 20 ft. over S. slope. |
| 14.00 | Asc. 30 ft. over a series of sandstone ribs and knobs putting to the S. |
| 15.80 | Top of ascent; desc. 110 ft. along E. slope of sandstone rib. |
| 36.00 | Base of descent; asc. 10 ft. over broken S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22, on broken S. slope.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and raise a mound of stone, 3 ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T39S R10E<br>¼<br>S21 \| S22<br>1957 |
| | Deposit a sandstone, 4x4x8 ins., mkd. with a cross (X) at the base of the post. |
| | Cont. over broken S. slope; asc. 240 ft. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22 falls on smooth sandstone of a steep S. slope where monument cannot be perpetuated. |
| | Land, broken eroded sandstone.<br>Soil, sandy.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush, yellow top and grass. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over broken and eroded sandstone; asc. S. slope. |
| 0.35 | Point selected for the witness cor. of secs. 15, 16, 21 and 22 on a small level shelf on a steep S. slope. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>S16 \| S15<br>S21 \| S22<br>W C<br>1957 |
| | Cont. to asc. 40 ft. over S. slope. |
| 4.70 | Ridge, bears E. and W.; desc. 90 ft. over broken N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16, on bare sandstone of broken N. slope. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S16 \| S15<br>1957 |
| | Cont. over broken N. slope; desc. 120 ft. over a series of sandstone ribs and knobs projecting NE. |
| 80.00 | True point for the cor. of secs. 9, 10, 15 and 16 falls on steep E. slope of sandstone rib where monument cannot be perpetuated. |
| | Land, rough and broken sandstone.<br>Soil, sandy.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush, yellow top, apple brush and grass. |

Portion of the Subdivision, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over rolling bench trhough a short thick undergrowth of black brush. |
| 0.35 | Point selected for the witness cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone to top, with brass cap mkd. |
| | T39S R10E<br>S 9 \| S10<br>S16 \| S15<br>W C<br>1957 |
| 26.00 | Small draw, drains E.; asc. 150 ft. over sandstone ribs and knobs along steep SE. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 9 and 10 falls on the steep S. slope of a sandstone rib projecting E. where the monument cannot be perpetuated. |
| 40.30 | Point selected for the witness ¼ sec. cor. of secs. 9 and 10, on top of sandstone rib. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S 9 \| S10<br>W C<br>1957 |
| | Cont. over sandstone ribs and knobs; asc. 5 ft. over SE. slope |
| 43.50 | Top of ascent; desc. 140 ft. over broken N. slope. |
| 54.30 | Wash, 2 ft. deep, 50 lks. wide, drains NE., thence along a broken SE. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10, on a broken SE. slope. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and in a mound of stone, 4½ ft. base to top, with brass cap mkd. |
| | T39S R10E<br>S 4 \| S 3<br>S 9 \| S10<br>1957 |
| | Land, broken and eroded sandstone.<br>Soil, sandy.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush and apple brush. |
| | N. 0° 07' E., bet. secs. 3 and 4. |
| | Over rough and broken sandstone; asc. 10 ft. along E. slope. |

| Chains | |
|---|---|
| 10.50 | Rim of canyon, bears N. 20° E. and S. 20° W.; desc. 200 ft. along ledgy W. slope. |
| 35.00 | Wash, 3 ft. deep, 60 lks. wide, drains NE.; asc. 90 ft. over broken SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4, on broken SE. slope. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S 4 \| S 3<br>1957 |
| 42.00 | Spur, projecting NE.; desc. 90 ft. over broken NW. slope. |
| 48.00 | Draw, drains NE.; asc. 200 ft. over ledgy SE. slope. |
| 55.60 | Rim of canyon, bears NE. and SW.; thence over nearly level sandstone slickrock. |
| 63.30 | Rim of canyon, bears NE. and SW.; desc. 330 ft. over broken NW. slope. |
| 71.00 | Bottom of canyon, drains E.; asc. 400 ft. over ledgy SW. slope. |
| 76.00 | Rim of canyon, bears NW. and SE., thence over badly broken sandstone. |
| 80.42 | The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp. |
| | Land, eroded sandstone ribs and rills, cut by deep canyons.<br>Soil, sandy.<br>Timber, widely scattered pinion and juniper.<br>Undergrowth, scattered black brush, mountain rush and yucca. |

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| | From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp. |
| | S. 0° 01' E., bet. secs. 1 and 2. |
| | Over rolling land. |
| | Desc. 60 ft. over general SE. slope. |
| 18.00 | Wash, 30 lks. wide, 2 ft. deep, drains NE.; asc. 90 ft. over broken slope facing generally NW. |
| 40.14 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S2 \| S1<br>1957 |
| | Asc. 200 ft. over broken NW. slope. |
| 58.50 | Rim of Iron Top Mesa, bears NE. and S. 10° W.; asc. 30 ft. over gentle N. slope through heavy black brush. |
| 80.14 | Point for the cor. of secs. 1, 2, 11 and 12. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br>T39S R10E<br>S 2 \| S 1<br>S11 \| S12<br>1957<br>No suitable accessories available.<br>Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone to heavy sandy loam.<br>Timber, none.<br>Undergrowth, scattered black brush, heavy on mesa top. |
| | S. 89° 50' W., bet. secs. 2 and 11, on a theoretical parallel connecting the cors. of 1, 6, 7 and 12, on the E. bdy. of the Tp., and the cor. of secs. 13, 4, 9 and 10, as specified in the special instructions.<br>Over rolling land, through heavy black brush. |
| 3.00 | Leave mesa top; desc. 180 ft. over general W. slope. |
| 18.70 | Base of West slope; desc. 10 ft. over a series of broken sandstone domes. |
| 33.90 | Wash, 20 lks. wide, 2 ft. deep, drains NE.; asc. 50 ft. over SE. slope of sandstone dome. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11.<br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T39S R10E<br>¼ S 2<br>S11<br>1957<br>Asc. 10 ft. over SE. slope. |
| 41.40 | Top of sandstone dome, cont. over a series of sandstone domes; asc. 40 ft. |
| 66.40 | Top of ascent; desc. 80 ft. over W. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 10 and 11.<br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T39S R10E<br>S 3 \| S 2<br>S10 \| S11<br>1957<br>Land, rough and broken.<br>Soil, shallow sandstone and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 2 and 3. |
| | Over rolling and broken land; asc. 120 ft. over broken S. slope. |
| 16.60 | Top of ascent; desc. 80 ft. over rolling and broken sandstone with general NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S3 \| S2<br>1957 |
| | The cor. is located on the S. slope of a small sandstone spur. |
| | Asc. 20 ft. over broken and exposed sandstone. |
| 75.80 | Top of ascent; desc. 10 ft. over NW. slope. |
| 78.60 | Slope changes to steep N. slope; desc. 30 ft. |
| 80.25 | The cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp. |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush and Brigham tea. |
| | From the true point for the cor. of secs. 15, 16, 21 and 22, from which its witness cor. bears N. 0° 02' W., 0.35 chs. dist. |
| | S. 89° 59' W., bet. secs. 16 and 21. |
| | Over broken land, with a general SW. slope, through scattered juniper and pinion. |
| | Desc. 180 ft. over broken SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T39S R10E<br>¼ S16<br>S21<br>1957 |
| | Cont. to desc. 170 ft. over broken SW. slope. |
| 59.30 | Wash, in bottom of draw, 10 lks. wide, 1 ft. deep, drains SW.; asc. 70 ft. along SE. slope. |
| 72.60 | Spur, projects SW.; desc. 40 ft. over NW. slope. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |

Portion of the Subdivision, T. 39 S., R. 10 E.

| Chains | |
|---|---|
| | T39S R10E<br>S17 \| S16<br>S20 \| S21<br>1957 |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over broken land, with a general NW. slope, through scattered juniper and pinion. |
| | Desc. 160 ft. over broken NW. slope. |
| 30.80 | Bottom of ravine, drains SW.; asc. 100 ft. over broken SE. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 16 and 17 falls in bottom of draw drains SW. where the monument cannot be perpetuated. |
| | Asc. 20 ft. over SE. slope. |
| 40.95 | Point selected for the witness ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T39S R10E<br>¼<br>S17 \| S16<br>W.C.<br>1957 |
| | Asc. 170 ft. over broken SE. slope. |
| 62.00 | Rim of low, black brush covered bench, bears NE. and SW.; desc. 20 ft. over slight NW. slope. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T39S R10E<br>S 8 \| S 9<br>S17 \| S16<br>1957 |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush, Brigham tea and bitter brush. |
| | From the true point for the cor. of secs. 9, 10, 15 and 16, from which its witness cor. bears N. 0° 02' W., 0.35 chs. dist. |
| | S. 89° 56' W., bet. secs. 9 and 16. |

| Chains | |
|---|---|
| | Over a series of sandstone ribs and pinnacles, through scattered juniper and pinion. |
| | Asc. 60 ft. along S. slope. |
| 14.80 | Low spur, projects SE.; desc. 60 ft. over slight SW. slope. |
| 40.01 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T39S R10E<br>¼ S 9<br>S16<br>1957 |
| | Desc. 20 ft. over W. slope. |
| 45.70 | Draw, drains S. 20° W.; asc. 50 ft. over SE. slope. |
| 53.70 | Top of ascent; desc. 110 ft. over NW. slope. |
| 68.00 | Small wash, drains NW.; desc. 30 ft. over NW. slope. |
| 80.02 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, scattered juniper and pinion.<br>Undergrowth, scattered black brush, Brigham tea and bitter brush. |
| | From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 40 S., R. 10 E. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Over broken land, draining SW.; asc. 80 ft. over irregular SW. slope. |
| 30.00 | Spur, projects W.; desc. 90 ft. over broken N. slope. |
| 39.00 | S. rim of canyon, bears E. and W.; desc. 100 ft. over ledgy N. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 32 and 33 falls on inaccessible ledges facing N. and cannot be monumented. |
| 42.00 | Wash in bottom of canyon, drains W.; asc. 160 ft. over ledges facing S. |
| 47.20 | N. rim of canyon, bears E. and W., thence over top of small bench. |
| 47.30 | Point selected for the witness ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S32 S33<br>W.C<br>1957 |
| | Cont. over top of bench. |

| Chains | |
|---|---|
| 58.80 | S. rim of canyon, bears S. 40° W. and N. 40° E.; desc. 200 ft. over broken NW. slope into canyon. |
| 66.00 | Wash in bottom of canyon, drains S. 40° W.; asc. 250 ft. over broken SE. slope. |
| 72.30 | N. rim of same canyon, bears S. 30° W. and N. 30° E.; asc. 50 ft. along SE. slope. |
| 77.20 | Top of ascent, bears S. 20° W. and N. 50° E.; desc. 15 ft. over broken bench. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R10E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush, Brigham tea and bitter brush. |
| | From the true point for the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., from which its witness cor. bears N. 89° 59' E., 0.10 chs. dist., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 40 S., R. 10 E. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Over broken land; asc. 15 ft. over S. slope. |
| 1.00 | Top of ascent on W. side of small butte; desc. 320 ft. over broken NW. slope into canyon. |
| 12.50 | Wash in bottom of canyon, drains S. 70° W.; asc. 320 ft. over broken SE. slope. |
| 30.50 | Ridge, bears S. 70° W. and N. 70° E.; 20 lks. wide on top; desc. 200 ft. over NW. slope into canyon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼<br>S31 \| S32<br>1957 |
| | Desc. 120 ft. over broken NW. slope. |
| 53.50 | Wash in bottom of canyon, drains SW.; asc. 320 ft. over broken SE. slope. |
| 69.00 | Base of ledges facing SE.; asc. 150 ft. over ledges. |
| 70.00 | Top of same ledges, bearing E. and W., thence over top of ridge. |

| Chains | |
|---|---|
| 79.00 | N. crest of ridge, bears S. 70° W.; desc. 80 ft. over ledges facing NW. |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32 falls on inaccessible ledges facing NW. and cannot be monumented. |
| | At a point E. 10.35 chs. dist. |
| | Point selected for the witness cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>W S30 \| S29<br>C S31 \| S32<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 28, 29, 32 and 33, |
| | West, bet. secs. 29 and 32. |
| | Over broken land on top of bench. |
| | Desc. 65 ft. over slight W. slope. |
| 21.70 | W. crest of bench, bears N. and S.; desc. 50 ft. over broken W. slope. |
| 26.70 | E. rim of canyon, bears S. 10° W. and N. 10° E.; desc. about 500 ft. over ledgy W. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 29 and 32 falls on broken E. side of wash where the monument cannot be perpetuated, |
| | Desc. 80 ft. over ledgy W. slope. |
| 44.00 | Wash in bottom of canyon, 30 lks. wide, 5 ft. deep, drains S. 40° W.; asc. about 60 ft. over broken SE. slope on W. side of wash. |
| 46.09 | Point selected for the witness ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., overaicross (X) on solid rock and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼ S29 W<br>S32 C<br>1957 |
| | Asc. about 300 ft. over broken ledgy SE. slope. |
| 68.10 | Top of sandstone ridge, bears S. 70° W., thence over narrow top of ridge. |
| 69.65 | The witness cor. of secs. 29, 30, 31 and 32; desc. 80 ft. over ledges facing NW. |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32. |

Portion of the Subdivision, T. 39 S., R. 10 E.

Chains

Land, broken.
Soil, sand and exposed sandstone.
Timber, none.

Meanders of the Colorado River through T. 39 S., R. 10 E.

From the meander cor. of secs. 31 and 36, on the E. bdy. of the Tp., and on the right bank of the Colorado River.

Thence downstream with the meanders of the right bank of the river in sec. 36.

N. 26° 30' W., 16.00 chs.
N. 42° 15' W., 9.00 chs.
N. 88° 45' W., 13.40 chs.
S. 46° 45' W., 15.80 chs.
S. 20° 30' W., 13.00 chs.
S. 4° 15' W., 17.60 chs.

Point for the meander cor. of secs. 1 and 36, on the S. bdy. of the Tp., not monumented.

From the point for the meander cor. of secs. 1 and 36, on the left bank of the Colorado River, which is S. 89° 59' W., 0.50 chs. from the true point for the cor. of Ts. 39 and 40 S., Rs. 10 and 11 E.

Thence downstream with the meanders of the left bank of the river in sec. 36.

N. 28° 02' W., 7.63 chs.
N. 22° 00' W., 15.00 chs.
N. 8° 30' W., 6.10 chs.
N. 51° 00' W., 7.50 chs.
S. 85° 45' W., 9.40 chs.
S. 49° 45' W., 5.80 chs.
S. 23° 00' W., 11.80 chs.
S. 7° 45' W., 16.20 chs.

Point for the meander cor. of secs. 1 and 36, on the S. bdy. of the Tp., not monumented.

Land, breaks and walls of Glen Canyon.
Soil, river sand.
Timber, willows on river banks.

General Description

The land forms of T. 39 S., R. 10 E. are small areas of rolling mesa top, narrow walled canyons, erosional scarps, buttes, precipitous slopes and a general broken landscape. These features are the results of erosion of the Water Pocket Fold and Iron Top Mesa. The broken crest of the Water Pocket Fold, an anticline, enters the township at the north boundary a short distance west of the northwest corner of sec. 4, bearing southeast to leave the township at the south boundary in the vicinity of the ¼ sec. cor. of secs. 3 and 34. The fold is so badly eroded in the south portion of the township that the crest is difficult to define. Iron Top Mesa extends into the township from the northeast and encompasses the major portion of secs. 1,11, 12 and 14. The elevation of the township ranges from 3280 ft. above sea level along the Colorado River in the southwest corner of the township, to 5388 ft. on top of a small butte in sec. 15.

Township 39 South, Range 10 East

Chains

The main drainage of the area is south and southwest by way of the Colorado River, but the Water Pocket Fold has created a definite drainage divide within the township. The crest is the divide. That portion of the township west of the crest drains south and southwest by way of several tributary canyons to the Colorado River. Navajo Creek, in the bottom of Long Canyon enters the township at the north boundary approximately 12 chs. east of the northwest corner, draining south approximately 3½ miles, thence southwest to leave the township at the west boundary 5 chs. S. of the corner of secs. 18 and 19. A large tributary canyon to Long Canyon heads in sec. 5, draining southwest approximately two miles to a junction with Long Canyon. A second tributary to Long Canyon heads in sec. 16, draining southwest to leave the township at the west boundary 6 chs. north of the ¼ sec. cor. of sec. 30. A large unnamed canyon heads in sec. 28 draining southwest to a junction with the Colorado River approximately 10 chs. northeast of the southwest cor. of the township. A second tributary canyon to the Colorado River heads in sec. 33 draining southwest to leave the township at the south boundary approximately 20 chs. west of the southwest cor. of sec. 32. This canyon drains into the Colorado River approximately 24 chains south of the south boundary of the township. The drainage system in that portion of the township that lies on the east side of the crest of the Water Pocket Fold is not as well developed as on the west side. The east drainage system consists of two large canyons and numerous washes, gullies and draws draining generally east and northeast to the Colorado River. One of the two canyons heads in sec. 4 draining northeast to leave the township at the north boundary near the northwest cor. of sec. 2. The other canyon heads in sec. 27 draining east to leave the township at the east boundary approximately 8 chains S. of the ¼ sec. cor. of secs. 19 and 24. It then drains east approximately 25 chs. to the Colorado River. The Colorado River, which is a meanderable stream under surveying rules, enters the township at the east boundary approximately 20 chs. north of the northeast cor. of sec. 13, course west in a meander, which swings southeast to leave the township at the east boundary at the northeast cor. of sec. 24. The river reenters the township at the southeast corner, course Northwest, in a meander which curves south so that the river leaves the township at the ¼ sec. cor. of secs. 1 and 36 on the south boundary. The river enters the township for the third time at the south boundary, approximately 15 chs. east of the southwest cor., course northwest, and leaves the township at the west boundary approximately 10 chs. north of the southwest corner.

The soil of T. 39 S., R. 10 E. is principally a shallow sandy silt, with numerous sandstone outcroppings. The vegetation is composed of scattered scrub juniper, pinion, black brush, bitter brush, mountain rush, gama grass and cacti.

The only water noted during the survey was that of the Colorado River, but it is probably that there are intermittent seeps along the bottoms of the deeper canyons.

There are no roads within the township or the surrounding area and this survey was carried on through the use of helicopters.

The only activity noted within the township during this survey was the grazing of cattle.

U.S. GOVERNMENT PRINTING OFFICE

4-690
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Lee B. Coon | Principal Assistant |
| Richard Brand | Chainman |
| Parley Pratt | Flagman |
| Max Sevy | Cornerman |

# CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 1956, I have surveyed a portion of the subdivision of T. 39 S., R. 10 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Fred R. Chappell

June 10, 1958

Salt Lake City, Utah

Fred R. Chappell

Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* ....., *19*....

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in .....

. is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

4-000
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Eldon W. Sibley | Principal Assistant |
| Ferrel D. Reynolds | Chainman |
| James J. Jepson | Flagman |
| John F. Chidester | Cornerman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 19[illegible] I have surveyed a portion of the subdivision of T. 39 S., R. 10 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 10, 1958

Salt Lake City, Utah

Craig P. Sylvester
Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

4-890
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Landon A. Kittell | Notekeeper |
| Max E. Swindle | Chainman |
| Gerald O. Barney | Flagman |
| Olaf M. Shakespeare | Axeman |
| Andrew M. Nelson | Cornerman |

# CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 19[illegible], I have surveyed the east, west and north boundaries, a portion of the subdivision and the meanders of the Colorado River through sec. 36 of T. 39 S., R. 10 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 10, 1958
Salt Lake City, Utah

Boyd S. Owens
Boyd S. Owens
Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 10—53605—2

4-880
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Lacel E. Bland | Principal Assistant |
| Paul D. Hanson | Chainman |
| Ortho J. Hatch | Flagman |
| Clement J. Davis | Cornerman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Alburn D. Griffin, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 19[illegible] I have surveyed a portion of the subdivision of T. 39 S., R. 10 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 10, 1958

Salt Lake City, Utah

Alburn D. Griffin
Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

187

# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 1958 I have ~~surveyed~~ supervised the survey of the east, west, and north boundaries, a portion of the subdivision, and the meanders of the Colorado River through sec. 36 of T. 39 S., R. 10 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 10, 1958
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane
Cadastral Surveyor (Chief of Party)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* SEP 22 1958, *19*

The foregoing field notes of the survey of the north, west and east boundaries, a portion of the subdivision and the meanders of the Colorado River through sec. 36, T. 39 S., R. 10 E., SLM, Utah

executed ~~by~~ under the supervision of Vern E. Lane (Chief of Party) having been critically examined and found correct, are hereby approved.

Earl G. Harrington
*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 39 S., R. 10 E., Salt Lake Mer., is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

4—679
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY

OF

THE NORTH AND EAST BOUNDARIES

AND

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 39 SOUTH, RANGE 11 EAST

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Vern E. Lane - Cadastral Surveyor ( Chief of Party)

Craig P. Sylvester - Cartographic Survey Aid

*Under special instructions dated* August 27, *19* 56, *which provided*

*for the surveys included under Group No.* 404, *approved* November 7, 1956

*and assignment instructions dated* July 30, *19* 57

*Survey commenced* August 13, *19* 57

*Survey completed* August 29, *19* 57

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 11 East

| | | | | | |
|---|---|---|---|---|---|
| 9<br>6 | 8<br>5 | 8<br>4 | 7<br>14 3 | 6<br>14 2 | 5<br>16 1 5 |
| 7 | 8 | 9 | 13 10 | 15<br>11 | 12 4 |
| 18 | 17 | 18<br>17 16 | 13 15 | 14 | 13 3 |
| 19 | 20 | 16<br>21 | 12 22 | 23 | 24 3 |
| 30 | 29 | 28 | 11 27 | 26 | 25 2 |
| 31 | 20<br>19 32 | 18 33 | 11 34 | 35 | 10<br>9 36 1 |

16—56770-1

2475

Chains

The south and west boundaries were surveyed concurrently with this township and are described in the field notes of the surveys of T. 40 S., R. 11 E. and T. 39 S., R. 10 E.

The following field notes are those of the survey of the north and east boundaries and a portion of the subdivision of T. 39 S., R. 11 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered state school sections.

The survey was executed with a W. and L.E. Gurley transit, serial No. 461263, equipped with an improved telescopic solar attachment, constructed in accordance with the standard specifications of the Bureau of Land Management. The instrument was in good condition prior to the survey and was maintained in proper adjustment throughout the progress of the survey.

The directions of all lines of the survey were determined generally by sustained angulation carried forward from observations upon the sun and Polaris.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true methods, but for simplification of the record, the random lines are omitted from these field notes. In accordance with the intent of the special instructions, all subdivisional corners established were calculated to be at the positions they would occupy if the entire township were subdivided.

Measurements were made with a steel tape, 8 chs. in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tapes were tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope, the vertical angle of each interval was ascertained by clinometers and the horizontal equivalents only are entered in this field note record. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible to chaining were run by traverse or triangulation. The details of such traverses or triangulations have been thoroughly verified and in order to simplify the record, the diagrams and reductions are omitted from these field notes.

The geographic position of the SE. cor. of the township is latitude 37° 20' 45.1" N., and longitude 110° 38' 12.1" W. as adjusted from traverses from U.S.G.S. triangulations stations within the area.

The magnetic declination was read at a number of stations within the township, and the mean of the readings was found to be 15° E.

East Boundary of T. 39 S., R. 11 E.

From the cor. of Ts. 39 and 40 S., Rs. 11 and 12 E., and iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of T. 40 S., R. 11 E.

North, bet. secs. 31 and 36.

Over broken land; desc. 175 ft. over N. slope.

40.00 Point for the ¼ sec. cor. of secs. 31 and 36.
Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

| Chains | |
|---|---|
| | T39S<br>R11E R12E<br>¼<br>S36 \| S31<br>1957 |
| | Desc. 10 ft. over broken N. slope. |
| 48.50 | Small spur, slopes N. 80° E., 3 chs. to end; desc. 50 ft. along broken E. slope. |
| 52.50 | Wash, 30 lks. wide, 4 ft. deep, drains E.; asc. 45 ft. along broken E. slope. |
| 74.60 | Spur, slopes E.; desc. 45 ft. over N. slope. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S<br>R11E R12E<br>S25 \| S30<br>S36 \| S31<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 25 and 30. |
| | Over broken land; desc. N. slope. |
| 1.00 | Slope changes to W. slope; desc. 30 ft. |
| 13.40 | Top of sandstone knob; desc. 165 ft. along W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S<br>R11E R12E<br>¼<br>S25 \| S30<br>1957 |
| | Over gently rolling land. |
| 40.50 | Wash, 20 lks. wide, 3 ft. deep, drains N. 15° E.; desc. 80 ft. along gentle E. slope. |
| 80.00 | Point for the cor. of secs. 19, 24, 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S<br>R11E R12E<br>S24 \| S19<br>S25 \| S30<br>1957 |

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| Chains | |
|---|---|
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 19 and 24.<br><br>Over rolling land; desc. E. slope. |
| 1.00 | Base of E. slope; asc. 50 ft. along E. slope. |
| 7.00 | Base of sandstone ridge, bears E. and W., irregular; asc. 45 ft. over S. slope. |
| 18.00 | Top of sandstone ridge, bears N. 80° W. and S. 80° E.; desc. 105 ft. over broken N. slope. |
| 36.00 | Base of N. slope, bears E. and W.; desc. 30 ft. along rolling E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 19 and 24.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S<br>R11E R12E<br>¼<br>S24 \| S19<br>1957<br><br>Desc. 65 ft. along rolling E. slope. |
| 80.00 | Point for the cor. of secs. 13, 19, 24 and 30.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S<br>R11E R12E<br>S13 \| S18<br>S24 \| S19<br>1957<br><br>Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 13 and 18.<br><br>Over rolling land; desc. 65 ft. along rolling E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 13 and 18.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.<br><br>T39S<br>R11E R12E<br>¼<br>S13 \| S18<br>1957<br><br>Desc. 15 ft. along rolling E. slope. |

East Boundary, T. 39 S., R. 11 E.

| Chains | |
|---|---|
| 45.75 | Flat drain, drains N. 15° W.; desc. 60 ft. along rolling W. slope. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of tone, 3½ ft. base to top, with brass cap mkd. |
| | T39S<br>R11E R12E<br>S12 \| S 7<br>S13 \| S18<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 7 and 12. |
| | Over rolling land; asc. 5 ft. along W. slope. |
| 10.50 | Top of ascent; desc. 160 ft. over broken W. slope. |
| 22.00 | S. rim of Lake Canyon, bears N. 45° W. and S. 45° E.; desc. about 150 ft. over ledges facing NE. |
| 35.00 | Wash in bottom of Lake Canyon, drains NW.; asc. about 150 ft. over steep SW. slope and ledges facing SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12 falls on steep ledges of N. rim of canyon and cannot be monumented. |
| 44.40 | N. rim of Lake Canyon, bears NW. and SE.; thence over broken land. |
| 44.50 | Point selected for the witness ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd. |
| | T39S<br>R11E R12E<br>¼<br>S12 ↓ S 7<br>W C<br>1957 |
| | Asc. 170 ft. over broken SW. slope. |
| 63.00 | Slope changes to gentle W. slope; asc. 10 ft. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S<br>R11E R12E<br>S 1 \| S 6<br>S12 \| S 7<br>1957 |

East Boundary, T. 39 S., R. 11 E.

| Chains | |
|---|---|
| | Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 1 and 6. |
| | Over rolling land; asc. 35 ft. over S. slope. |
| 4.20 | Crest of S. slope, bears E. and W.; desc. 20 ft. over rolling land, |
| 39.70 | Top of low sandstone spur, slopes E. 2 chs. to end, continue over rolling land. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T39S<br>R11E R12E<br>¼<br>S 1 \| S 6<br>1957 |
| | Desc. 5 ft. over rolling land. |
| 65.50 | Top of sandstone rib, extending E. and W.; desc. 35 ft. over rolling land. |
| 80.00 | Point for the cor. of Ts. 38½ and 39 S., R. 11 E. and Ts. 38 and 39 S., R. 12 E.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.<br>T38½S T38S<br>R11E R12E<br>S36 \| S31<br>S 1 \| S 6<br>T39S<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

North Boundary, T. 39 S., R. 11 E.

| | |
|---|---|
| | From the cor. of Ts. 38½ and 39 S., R. 11 E. and Ts. 38 and 39 S., R. 12 E., previously described. |
| | N. 89° 52' W., bet. secs. 1 and 36. |
| | Over rolling land; asc. 25 ft. over gentle E. slope. |
| 16.00 | Top of ascent on low sandstone ridge, bears N. and S.; desc. 75 ft. over gentle W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

| Chains | |
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| | T38½S R11E<br>¼ S36<br>S 1<br>T39S<br>1957 |
| | Desc. 60 ft. over rolling W. slope. |
| 63.80 | E. rim of Lake Canyon, bears N. 45° W. and S. 45° E.; desc. about 200 ft. over ledges facing SW.; by triangulation. |
| 75.00 | Wash in bottom of Lake Canyon, drains N. 45° W.; asc. about 200 ft. over ledges facing NE. |
| 77.50 | W. rim of Lake Canyon, bears N. 40° W. and S. 40° E.; asc. 30 ft. over NE. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T38½S R11E<br>S35 \| S36<br>S 2 \| S 1<br>T39S<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 52' W., bet. secs. 2 and 35. |
| | Over slightly broken land; asc. NE. slope. |
| 2.10 | Top of ascent, bears S. and N. 20° W., 7 chs. to canyon; desc. 65 ft. along N. slope. |
| 27.30 | Parallel canyon; desc. 45 ft. along steep N. slope on S. rim of canyon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 2 falls on steep N. slope on S. rim of Lake Canyon and cannot be monumented. |
| 43.00 | Leave rim of canyon, canyon bears N. 30° W.; asc. 30 ft. over NE. slope. |
| 47.12 | Point selected for the witness ¼ sec. cor. of secs. 35 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T38½S R11E<br>¼ S35 W<br>S 2 C<br>T39S<br>1957 |
| | Asc. 35 ft. over NE. slope. |
| 53.20 | Point, projects N.; desc. 90 ft. over NW. slope. |

North Boundary, T. 39 S., R. 11 E.

| Chains | |
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| 73.21 | Point selected for the witness cor. of secs. 2, 3, 34 and 35.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T38½S R11E<br>W S34 \| S35<br>C S 3 \| S 2<br>T39S<br>1957<br><br>Desc. over NW. slope. |
| 73.90 | S. rim of Lake Canyon, bears N. 70° E. and S. 70° W.; desc. about 200 ft. over ledges facing NW. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35 falls on ledges on S. rim of Lake Canyon and cannot be monumented.<br><br>Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 52' W., bet. secs. 3 and 34.<br><br>Over broken land; desc. over ledges facing NW. into Lake Canyon. |
| 1.00 | Wash in bottom of Lake Canyon, drains S. 70° W.; asc. about 200 ft. over ledges facing SE. |
| 3.20 | N. rim of Lake Canyon, bears S. 70° W. and N. 70° E.; asc. about 100 ft. over broken SE. slope. |
| 27.80 | Point, projects S.; desc. 75 ft. over irregular W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38½S R11E<br>¼ S34<br>S 3<br>T39S<br>1957<br><br>Desc. over W. slope. |
| 41.00 | Wash, 50 lks. wide, 5 ft. deep, drains S. 20° W.; asc. about 150 ft. over broken SE. slope. |
| 74.80 | Point, projects S. from Iron Top Mesa; desc. 30 ft. over SW. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38½S R11E<br>S33 \| S34<br>S 4 \| S 3<br>T39S<br>1957 |

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| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. | |
| | N. 89° 52' W., bet. secs. 4 and 33.<br><br>Over slightly broken land; desc. 10 ft. over gentle SW. slope. | |
| 24.80 | E. rim of Glen Canyon, bears S. and N., 10 chs.; thence westward; desc. about 300 ft. over ledges facing W. | |
| 28.00 | Approximate left bank of Colorado River, bears N. and S.; thence across river, flowing S. | |
| 38.50 | Approximate right bank of river, bears S. and N. 40° W.; asc. 20 ft. over E. slope. | |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone,<br><br>T38½S R11E<br>¼ S33 / S 4<br>T39S<br>1957 | |
| | Asc. 485 ft. over broken E. slope out of Glen Canyon. | |
| 80.00 | Point for the cor. of secs. 4, 5, 33 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38½S R11E<br>S32 \| S33<br>S. 5 \| S 4<br>T39S<br>1957 | |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none; heavy undergrowth on river bottom. | |
| | N. 89° 52' W., bet. secs. 32 and 5.<br><br>Over broken land on S. rim of Glen Canyon; asc. 165 ft. over broken E. slope. | |
| 15.50 | Spur, slopes N.; desc. 85 ft. along N. slope. | |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X) and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T38½S R11E<br>¼ S32 / S 5<br>T39S<br>1957 | |

North Boundary, T. 39 S., R. 11 E.

| Chains | |
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| | Desc. 70 ft. along broken N. slope. |
| 49.20 | Wash, drains N.; asc. 270 ft. over steep NE. slope. |
| 65.90 | Point, projects N., 1 ch. to end at rim of Glen Canyon; asc. 5 ft. along N. slope. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd. |
| | T38½S R11E<br>S31 \| S32<br>S 6 \| S 5<br>T39S<br>1957 |
| | Land, broken S. rim of Glen Canyon.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 52' W., bet. secs. 6 and 31. |
| | Over rolling land; asc. NE. slope. |
| 0.20 | E. edge of Iron Top Mesa, bears NW. and S. 70° W.; asc. 30 ft. over rolling top of mesa. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd. |
| | T38½S R11E<br>¼ S31<br>S 6<br>T39S<br>1957 |
| | Desc. 5 ft. over rolling top of Iron Top Mesa. |
| 55.40 | W. edge of same mesa, bears NE. and S. 80° W.; desc. 25 ft. along N. slope. |
| 66.40 | Slope changes to W.; desc. 95 ft. into cove. |
| 78.48 | The cor. of Ts. 38½ and 39 S., Rs. 10 and 11 E., an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 39 S., R. 10 E. |
| | Land, rolling.<br>Soil, sand and rocks.<br>Timber, none; heavy growth of black brush. |
| | Portion of the Subdivision, T. 39 S., R. 11 E. |
| | From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 40 S., R. 11 E. |
| | N. 0° 01' W., bet. secs. 35 and 36. |
| | Over rolling land; desc. 45 ft. over N. slope. |

Portion of the Subdivision, Tp. 39 S., R. 11 E.

| Chains | |
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| 6.50 | Wash, 30 lks. wide, 4 ft. deep, drains S. 50° W.; asc. 60 ft. over S. slope. |
| 39.80 | Point selected for the witness ¼ sec. cor. of secs. 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>W C<br>S35 \| S36<br>1957<br><br>Asc. over S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36 falls on steep N. slope of small sandstone rib, and cannot be perpetuated; asc. 60 ft. over broken S. slope. |
| 50.20 | Top of small sandstone rim, facing S., bears E. and W.; asc. 60 ft. over rolling S. slope. |
| 78.80 | Top of low sandstone rim, bears E. and W.; desc. over rim. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S26 \| S25<br>S35 \| S36<br>1957<br><br>Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 25, 30, 31 and 36 on the E. bdy.<br><br>N. 89° 59' W., bet. secs. 25 and 36.<br><br>Over rolling land; asc. 85 ft. along gentle N. slope. |
| 40.03 | Point for the ¼ sec. cor. of secs. 25 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼ S25 / S36<br>1957<br><br>Asc. 60 ft. along N. slope. |
| 54.50 | Slope changes to S. slope; asc. 95 ft. |
| 67.90 | E. edge of small mesa, bears N. 70° E. and S. 70° W.; thence over S. end of mesa. |

| Chains | |
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| 70.00 | W. edge of some mesa, bears N. 60° W. and S. 80° E.; desc. 100 ft. over W. slope. |
| 80.06 | The cor. of secs. 25, 26, 35 and 36.<br><br>Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 3, 4, 33 and 34 on the S. bdy., an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 40 S., R. 11 E.<br><br>N. 0° 02' W., bet. secs. 33 and 34.<br><br>Over rolling land; asc. 40 ft. over S. slope. |
| 12.10 | Base of ascent, bears E. and W.; asc. 70 ft. over broken S. slope. |
| 34.20 | Top of S. slope, bears W. and N. 50° E.; desc. 5 ft. along W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>S33 \| S34<br>1957<br><br>Continue along W. slope. |
| 42.00 | Slope changes to N. slope; desc. 40 ft. |
| 51.20 | Base of N. slope, also flat drain, draining S. 70° W.; asc. 115 ft. over broken S. slope. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S28 \| S27<br>S33 \| S34<br>1957<br><br>Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 27 and 28.<br><br>Over broken land; asc. 130 ft. over broken S. slope. |
| 37.20 | Top of ascent on ridge bearing E. and W.; thence over top of ridge. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |

| Chains | |
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| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>S28 \| S27<br>1957 |
| | Contine over top of ridge. |
| 42.00 | N. edge of ridge, bears E. and W.; desc. 155 ft. over broken N. slope. |
| 57.80 | Base of broken N. slope, bears E. and W.; asc. 25 ft. over gentle S. slope. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over rolling land; asc. 90 ft. over gentle S. slope. |
| 21.30 | Low spur, slopes W., 3 chs. to end; desc. 95 ft. over gentle N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, mounded dirt to W. of iron post, with brass cap mkd.<br><br>T39S R11E<br>¼<br>S21 \| S22<br>1957 |
| | No other accessories available. |
| | Desc. 85 ft. over gentle N. slope. |
| 76.80 | Flat drain, drains W.; asc. 15 ft. over S. slope. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S16 \| S15<br>S21 \| S22<br>1957 |

| Chains | |
|---|---|
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 15 and 16.<br><br>Over rolling land; asc. 25 ft. over gentle S. slope. |
| 27.10 | Base of broken S. slope; asc. 65 ft. over irregular sandstone formation. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>S16 \| S15<br>1957 |
| | Asc. 5 ft. over S. slope. |
| 44.10 | Slope changes to SE.; asc. 125 ft. |
| 76.20 | E. edge of mesa, bears N. 20° E. and S. 40° W.; thence across E. edge of mesa. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd.<br><br>T39S R11E<br>S 9 \| S10<br>S16 \| S15<br>1957 |
| | Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 9 and 10.<br><br>Over rolling land on top of mesa; desc. 55 ft. over N. slope. |
| 21.30 | N. edge of mesa, bears W. and E., 5 chs.; thence curves southward, 195 ft. over broken N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>S 9 \| S10<br>1957 |
| | Desc. 270 ft. over broken N. slope. |
| 79.80 | Small wash, drains N. 20° E.; asc. over broken SE. slope. |

| Chains | |
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| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S 4 \| S 3<br>S 9 \| S10<br>1957<br><br>Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 04' W., bet. secs. 3 and 4.<br><br>Over broken land; asc. 30 ft. over SE. slope. |
| 14.90 | Spur, slopes NE.; desc. 150 ft. over broken N. slope. |
| 32.64 | Point selected for the witness ¼ sec. cor. of secs. 3 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>W C<br>S 4 ↑ S 3<br>1957<br><br>Continue over broken N. slope. |
| 32.90 | S. rim of Lake Canyon, bears N. 60° E. and S. 60° W.; desc. about 240 ft. over ledges facing NW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4 falls in canyon and cannot be monumented. |
| 41.50 | Wash in bottom of Lake Canyon, drains SW.; asc. about 250 ft. over steep SE. slope and ledges facing SE. |
| 52.00 | N. rim of Lake Canyon, bears NE. and SW.; asc. about 100 ft. over broken S. slope. |
| 80.16 | The cor. of secs. 3, 4, 33 and 34 on the N. bdy.<br><br>Land, broken.<br>Soil, sand, exposed sandstone.<br>Timber, none. |
| | From the true point for the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township; asc. 200 ft. over ledges facing N.<br><br>S. 0° 01' E., bet. secs. 2 and 3. |
| 2.50 | S. rim of canyon, bears E. and W.; asc. 35 ft. over N. slope. |
| 10.00 | Top of ascent, bears E. and W.; desc. 40 ft. over S. slope. |

| Chains | |
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| 13.00 | N. rim of small canyon, bears N. 40° W. and S. 40° E.; desc. 150 ft. over ledges facing SW. |
| 15.00 | Wash in bottom of canyon, drains N. 40° W.; asc. about 150 ft. over ledges facing NE. |
| 25.00 | S. rim of same canyon, bears N. 40° W. and S. 40° E.; asc. 110 ft. over NE. slope. |
| 34.50 | N. edge of bench, bears N. 50° W. and S. 50° E. on curve to S.; thence over top of bench. |
| 40.11 | Point for the ¼ sec. cor. of secs. 2 and 3.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>S 3 \| S 2<br>1957<br><br>Continue over top of mesa. |
| 43.00 | S. edge of same bench, bears S. 40° W. and N. 30° E. on curve to N.; desc. 70 ft. over S. slope. |
| 61.30 | Small wash, drains N. 45° E.; asc. 100 ft. over NW. slope. |
| 71.10 | Top of ascent, bears E. and S. 70° W.; desc. 50 ft. along E. slope. |
| 80.11 | Point for the cor. of secs. 2, 3, 10 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S 3 \| S 2<br>S10 \| S11<br>1957<br><br>Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | S. 89° 54' E., bet. secs. 2 and 11.<br><br>Over broken land; desc. E. slope. |
| 3.10 | Small wash, drains N. 20° E.; asc. 45 ft. over NW. slope. |
| 14.20 | Top of ascent, bears N. and S.; desc. 90 ft. over SE. slope. |
| 23.20 | Wash, 20 lks. wide, 4 ft. deep, drains N. 20° E.; asc. 110 ft. over W. slope. |
| 34.00 | W. edge of bench, bears N. and S.; asc. 15 ft. over rolling top of bench. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, mounded dirt and dug pit to N. of iron post, with brass cap mkd. |

| Chains | |
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| | T39S R11E<br>¼ S 2<br>S11<br>1957 |
| | Asc. 30 ft. over rolling bench. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, mounded dirt around iron post, with brass cap mkd. |
| | T39S R11E<br>S 2 \| S 1<br>S11 \| S12<br>1957 |
| | No other accessories available. |
| | Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none; heavy growth of black brush on top of mesa. |
| | N. 0° 03' W., bet. secs. 1 and 2. |
| | Over rolling land; desc. 10 ft. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd. |
| | T39S R11E<br>¼<br>S 2 \| S 1<br>1957 |
| | Desc. 20 ft. over rolling land. |
| 63.90 | Desc. 55 ft. over exposed sandstone, draining N. |
| 80.03 | The cor. of secs. 1, 2, 35 and 36. |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 15, 16, 21 and 22. |
| | N. 89° 57' W., bet. secs. 16 and 21. |
| | Over rolling land; desc. 5 ft. over gentle W. slope. |
| 22.60 | Small wash, drains W.; desc. 20 ft. over W. slope, along wash. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R11E<br>¼ S16<br>S21<br>1957 |

| Chains | |
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| | Continue over gentle W. slope. |
| 56.40 | Base of broken SE. slope, bears N. 50° E. and S. 50° W.; asc. 70 ft. |
| 75.40 | Spur, slopes S. 20° W.; asc. 35 ft. along S. slope. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R11E<br>S17 \| S16<br>S20 \| S21<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over broken land; asc. 40 ft. over S. slope. |
| 3.40 | Slope changes to W. slope; asc. 100 ft. below rim of mesa. |
| 17.30 | S. rim of mesa, bears N. 80° W. and S. 10° E.; desc. 20 ft. over rolling top of mesa. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R11E<br>¼<br>S17 \| S16<br>1957 |
| | Asc. 30 ft. over top of mesa. |
| 55.00 | N. rim of mesa, bears S. 50° W. and N. 70° E.; desc. 130 ft. over steep N. slope. |
| 61.29 | Point selected for the witness cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R11E<br>W C<br>S 8 \| S 9<br>S17 \| S16<br>1957 |
| | Desc. over N. slope. |
| 61.40 | W. rim of Glen Canyon, bears N. 70° E. and S. 50° W.; desc. about 500 ft. over ledges facing NW. and steep NW. slope. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17 falls on broken W. rim of Glen Canyon, and cannot be monumented. |

| Chains | |
|---|---|
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 9, 10, 15 and 16. |
| | N. 89° 54' W., bet. secs. 9 and 16. |
| | Over rolling land on top of mesa; desc. 10 ft. |
| 25.80 | W. edge of mesa, bears N. 20° E. and S. 70° W.; desc. 65 ft. along broken N. slope. |
| 40.03 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R11E<br>¼ S 9 / S16<br>1957 |
| | Desc. about 240 ft. along broken N. slope. |
| 61.50 | W. rim of Glen Canyon, bears N. 30° E. and S. 30° W.; desc. about 400 ft. over ledges facing NW. and steep NW. slope. |
| 80.06 | True point for the cor. of secs. 8, 9, 16 and 17. |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Over broken land; asc. 50 ft. over S. slope. |
| 9.70 | Top of ascent, bears E. and W.; desc. 30 ft. over N. slope. |
| 24.20 | Base of S. slope; asc. 25 ft. over sandy flat. |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd. |
| | T39S R11E<br>¼<br>S32 \| S33<br>1957 |
| | Continue over sandy flat |
| 41.50 | Leave sand flat; asc. 100 ft. over S. slope of exposed sandstone. |
| 58.90 | Top of ascent, bears E. and W.; desc. 130 ft. over N. slope. |
| 69.50 | Base of N. slope; thence over sandy flat. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S29 \| S28<br>S32 \| S33<br>1957<br><br>Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From the true point for the cor. of secs. 5, 6, 31 and 32 on the S. bdy.<br><br>N. 0° 03' W., bet. secs. 31 and 32.<br><br>Over broken land; asc. 15 ft. over S. slope. |
| 0.75 | Top of ascent, bears E. and W.; desc. 85 ft. over broken N. slope. |
| 29.79 | Point selected for the witness ¼ sec. cor. of secs. 31 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼<br>W C<br>S31 \| S32<br>1957<br><br>Continue over broken land. |
| 30.00 | E. rim of Glen Canyon, bears N. 45° E. and S. 45° W.; desc. about 250 ft. over ledges facing NW. by triangulation. |
| 34.00 | Base of ledges; desc. about 100 ft. along broken W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32 falls on inaccessible breaks of W. rim of Glen Canyon, and cannot be monumented.<br><br>Continue along broken W. slope in bottom of Glen Canyon. |
| 73.00 | Gulch, drains N. 70° W. |
| 80.00 | Point for the cor. of secs. 29, 30, 31 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S30 \| S29<br>S31 \| S32<br>1957<br><br>Land, broken W. rim of Glen Canyon.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

| Chains | |
|---|---|
| | From the cor. of secs. 28, 29, 32 and 33. |
| | West, bet. secs. 29 and 32. |
| | Over rolling land; desc. 50 ft. over S. slope. |
| 16.70 | Top of low sandstone knob; desc. 50 ft. over rolling land. |
| 39.99 | Point for the ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R11E<br>¼ S29 / S32<br>1957 |
| | Desc. 65 ft. over broken sandstone formation. |
| 59.50 | W. rim of Glen Canyon, bears N. and S.; desc. about 320 ft. over ledges facing W. |
| 64.00 | Base of same ledges; desc. about 80 ft. over broken W. slope, in the bottom of Glen Canyon. |
| 79.98 | The cor. of secs. 29, 30, 31 and 32. |
| | Land, rolling and broken W. rim of Glen Canyon.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

## GENERAL DESCRIPTION

The land within T. 39 S., R. 11 E. is a high sandy plateau cut by deep box canyons draining into the Colorado River. In many places the sand has eroded away, leaving very rough irregular sandstone surface rock.

Lake Canyon drains the NE. portion of the township, courses W. to the Colorado River. There are some Moqui Cliff Dwellings along the walls of Lake Canyon. The Colorado River, flowing S. through the W. portion of the township, is walled by high sandstone cliffs and is not easily accessible by foot travel.

The principal use for the land is winter stock grazing. Water suitable for drinking is found in the bottom of Lake Canyon.

Vegetation is comprised of scattered desert weeds and a little grass. Timber consists of isolated juniper trees and cottonwoods along Lake Canyon. Willow grow along the river banks and on some of the sand bars.

There are no roads or jeep trails in the township. The survey lines were accessible by helicopters and it is doubted if the township could have been surveyed by any other means of transportation.

No mineral deposits were noted during the survey.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Eldon W. Sibley | Principal Assistant |
| James J. Jepson | Flagman |
| Ferrel D. Reynolds | Chainman |
| John F. Chidester, Jr. | Cornerman |
| Peter K. Bailey | Axeman |

# CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August 1956, I have surveyed the north and east boundaries and a portion of the subdivision of Township 39 South, Range 11 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

February 21, 1958

Salt Lake City, Utah

Craig P. Sylvester

Craig P. Sylvester - Cartographic Surv

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]-8

## CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 27th day of August 19[illegible], I have ~~surveyed~~ supervised the survey of the north and east boundaries and a portion of the subdivision of Township 39 South, Range 11 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

February 21, 1958

Salt Lake City, Utah

Vern E. Lane

Vern E. Lane - Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* SEP 22 1958, *19*

The foregoing field notes of the survey of the north and east boundaries and a portion of the subdivision of Township 39 South, Range 11 East, Salt Lake Meridian, Utah

executed by Craig P. Sylvester, under the supervision of Vern E. Lane

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in~~

~~, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-2

4—879
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY

OF

THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 39 SOUTH, RANGE 12 EAST

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Vern E. Lane - Cadastral Surveyor (Chief of Party)

Fred R. Chappell - Cadastral Surveyor

*Under special instructions dated* August 27, *19* 56, *which provided for the surveys included under Group No.* 404, *approved* November 7, 1956 *and assignment instructions dated* July 30, *19* 57

*Survey commenced* August 8, *19* 57

*Survey completed* August 25, *19* 57

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 12 East

| | | | | | |
|---|---|---|---|---|---|
| 4<br>6 | 4<br>5 | 3<br>4 | 3<br>9 3 | 2<br>10 2 | 1<br>11 1 |
| 7 | 8 | 9 | 9 10 | 10<br>11 | 12 |
| 18 | 17 | 12<br>12 16 | 8 15 | 14 | 13 |
| 19 | 20 | 11<br>21 | 8 22 | 23 | 24 |
| 30 | 29 | 28 | 7 27 | 26 | 25 |
| 31 | 14<br>14 32 | 33 | 6 34 | 35 | 6<br>5 36 |

10—52770-1

2476

Chains

The south boundary was surveyed concurrently with the survey of this township, and is described in the field notes of the survey of T. 40 S., R. 12 E. The east boundary was surveyed by R. C. Yundt in 1930, and is described in the field notes of the survey of the range line between Rs. 12 and 13 E., T. 39 S. The west boundary was surveyed by C. P. Sylvester concurrently with the survey of T. 39 S., R. 11 E.

The following field notes are those of the survey of the north boundary and a portion of the subdivisional lines of T. 39 S., R. 12 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered State school sections.

The survey was executed with a W. & L.E. Gurley solar transit, No. 541327, constructed in accordance with standard specifications of the Bureau of Land Management. The instrument was in good condition having been place in proper adjustment prior to the beginning of the field work. It was tested and checked frequently during the progress of the survey.

The direction of all lines being reported are determined by deflecting from meridians established by observations upon Polaris and the sun, throughout the survey.

Corners on latitudinal lines were set on the true latitudinal curve. Lines connecting previously established courses were run by random and true method, but for the simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

The measurements were made with a steel tape, 8 chains in length. This tape was graduated every link for the first chain, and thereafter at intervals of 10 links. The tapes were tested by comparison with a standard steel tape, 1 chain in length, and found to be correct. The measurements were on the slope, the vertical angle of each interval determined by use of clinometers, and the slope distances properly reduced to horizontal equivalents. All lines of this survey were run by direct methods where the lines are accessible; inaccessible lines were run by traverse or by triangulation methods. The details of such traverses or triangulations have been thoroughly verified and in order to simplify the record, the diagrams and reductions are omitted from these field notes.

The geographic value for the SE. cor. of the township is latitude 37° 20' 44.518" N. and longitude 110° 31' 40.879" W., as adjusted from traverses to the several U.S.G.S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township, and the average of the several readings was found to be 15° 00' E.

## North Boundary, T. 39 S., R. 12 E.

Beginning at the corner of Ts. 38 and 39 S., Rs. 12 and 13 E., mkd. by an iron post, 3 ins. diam., conforming to the record.

N. 89° 54' W., bet. secs. 1 and 36.

Over gently rolling desert land, through medium undergrowth.

18.30 Thence over a series of sandstone rises.

| Chains | |
|---|---|
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, with a 3½ ft. base to top, with brass cap mkd.<br><br>T38S R12E<br>¼ S36 / S 1<br>T39S<br>1957 |
| 44.50 | Sand spur, projects NW.; desc. 90 ft. over a W. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38S R12E<br>S35 \| S36<br>S 2 \| S 1<br>T39S<br>1957<br><br>Land, gently rolling desert.<br>Soil, sand with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, mountain rush, scant grass and weeds. |
| | N. 89° 54' W., bet. secs. 2 and 35.<br><br>Over rolling desert land, through medium undergrowth; desc. 50 ft. over a series of sand and sandstone rises and swales. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38S R12E<br>¼ S35 / S 2<br>T39S<br>1957<br><br>Asc. 30 ft. over an E. slope of sandstone slick rock. |
| 60.70 | N. slope of sandstone knob; desc. 60 ft. over a W. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38S R12E<br>S34 \| S35<br>S 3 \| S 2<br>T39S<br>1957<br><br>Land, rolling desert.<br>Soil, sand and exposed sandstone.<br>Timber, none; undergrowth, black brush, sagebrush, yucca, scant grass and weeds. |

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| Chains | |
|---|---|
| | N. 89° 54' W., bet. secs. 3 and 34. |
| | Over gently rolling desert land, through medium undergrowth. |
| 37.00 | Thence over sandstone slick rock. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T38S R12E<br>¼ S34<br>S 3<br>T39S<br>1957 |
| 73.80 | Point of sandy spur, projects from the N.; desc. 30 ft. over a SW. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T38S R12E<br>S33 \| S34<br>S 4 \| S 3<br>T39S<br>1957 |
| | Land, rolling desert.<br>Soil, sand with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, mountain rush, scant grass and weeds. |
| | N. 89° 54' W., bet. secs. 4 and 33. |
| | Over rolling desert land, sloping gently to the W.; through medium undergrowth. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T38S R12E<br>¼ S33<br>S 4<br>T39S<br>1957 |
| | Continue over gentle W. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

Chains

T38S R12E
S32 | S33
S 5 | S 4
T39S
1957

Land, gently rolling.
Soil, sand and barren sandstone.
Timber, none; undergrowth, scant black brush, mountain rush, yucca, grass and weeds.

---

N. 89° 54' W., bet. secs. 5 and 32.

Over rolling desert land, through scant undergrowth; asc. 50 ft. over a sandstone slope, facing to the E.

6.80 Sandstone spur, projects NE.; desc. 150 ft. over a W. slope.

40.00 Point for the ¼ sec. cor. of secs. 5 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T38S R12E
¼ S32
S 5
T39S
1957

Desc. 10 ft. over a W. slope.

46.00 Draw drains SW.; asc. 20 ft.

62.60 Sandstone spur, projects S.

80.00 Point for the cor. of secs. 5, 6, 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T38S R12E
S31 | S32
S 6 | S 5
T39S
1957

Land, gently rolling desert.
Soil, sand with the greater portion exposed sandstone.
Timber, none; undergrowth, scant bitter brush, black brush, mountain rush, yucca and grass.

---

N. 89° 54' W., bet. secs. 6 and 31.

Over rolling desert land, through scant undergrowth; asc. 40 ft. over an E. slope.

32.80 S. slope of a sandstone knob; desc. 70 ft.

40.00 Point for the ¼ sec. cor. of secs. 6 and 31.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38S R12E<br>¼ S31 / S 6<br>T39S<br>1957 |
| | Asc. 50 ft. along a S. slope. |
| 62.60 | Sandstone spur, projects S.; desc. 70 ft. over a W. slope. |
| 78.12 | The cor. of Ts. 38½ and 39 S., R. 11 E. and Ts. 38 and 39 S., R. 12 E. monumented by an iron post, 2½ ins. diam., conforming to the record.<br><br>Land, rolling and broken desert.<br>Soil, exposed sandstone and sand.<br>Timber, none; undergrowth, scant black brush, sagebrush, grass and weeds. |

## Portion of the Subdivision, T. 39 S., R. 12 E.

| | |
|---|---|
| | Beginning at the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, mkd. by an iron post, 2½ ins. diam., conforming to the record.<br><br>Thence<br><br>N. 0° 01' W., bet. secs. 35 and 36.<br><br>Over gently rolling desert land, through scattered timber and scant undergrowth, across nearly level gravel knoll top. |
| 9.00 | N. edge of knoll; desc. 110 ft. over a gentle N. slope. |
| 34.90 | Bottom of swale, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>¼<br>S35 \| S36<br>1957<br><br>Deposit a sandstone, mkd. with a cross (X) at the base of the post.<br><br>Desc. 70 ft. over a gentle N. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>S26 \| S25<br>S35 \| S36<br>1957<br><br>Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post. |

| Chains | |
|---|---|
| | Land, gently rolling desert.<br>Soil, sand clay with exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, medium black brush, sagebrush, mountain rush, grass and weeds. |
| | Beginning at the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record. |
| | Thence |
| | N. 89° 53' W., bet. secs. 25 and 36. |
| | Over rolling desert land, through scattered timber and medium undergrowth; desc. 40 ft. over gentle W. slope of sandstone slick rock. |
| 30.00 | Leave sandstone slick rock; thence over sand. |
| 38.00 | Leave sand; thence over sandstone. |
| 39.98 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, with brass cap mkd.<br>T39S R12E<br>¼ S25 / S36<br>1957 |
| 41.50 | Leave sandstone; thence over sand. |
| 47.50 | Unimproved dirt road, bears N. and S.; asc. 10 ft. over E. slope. |
| 62.50 | Sandstone spur, projects S.; desc. 60 ft. over W. slope. |
| 79.96 | The cor. of secs. 25, 26, 35 and 36. |
| | Land, gently rolling desert.<br>Soil, sand and sandstone slick rock.<br>Timber, widely scattered juniper and pinion.<br>Undergrowth, medium black brush, sagebrush, grass and weeds. |
| | From the true point for the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township, from which its witness cor. bears S. 89° 54' E., 8.40 chs. dist., monumented by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the survey of T. 40 S., R. 12 E. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Over badly broken desert land. |
| 6.50 | Draw, drains NW.; asc. 100 ft. over sandstone slickrock. |
| 13.00 | High sandstone knob; thence over a series of sandstone knobs, ribs and crevices. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |

Portion of the Subdivision, T. 39 S., R. 12 E.

| Chains | |
|---|---|
| | T39S R12E<br>¼<br>S33 \| S34<br>1957 |
| | Continue over sandstone ribs, knobs and crevices. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R12E<br>S28 \| S27<br>S33 \| S34<br>1957 |
| | Corner is set on the W. slope of a high sandstone knob. |
| | Land, badly broken desert.<br>Soil, sandstone, with sand in the pockets.<br>Timber, widely scattered dwarf juniper.<br>Undergrowth, small amount of black brush, sagebrush, yucca and weeds. |
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Over broken desert land, through scant undergrowth, over a series of sandstone ribs, knobs and crevices. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |
| | In a sand pocket |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |
| | T39S R12E<br>¼<br>S28 \| S27<br>1957 |
| | Deposit charcoal at the base of the post. |
| 40.50 | Wash, 20 lks. wide, 2 ft. deep, drains NW., continue over sandstone knobs, ribs and crevices. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R12E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, badly broken the first 60.00 chs., rolling the balance.<br>Soil, exposed sandstone, with sand in the pockets.<br>Timber, none.<br>Undergrowth, scattered black brush, sagebrush and weeds. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over rolling desert land, through medium undergrowth, over a series of small sandstone rises and sand ridges, sloping gently to the W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T39S R12E<br>¼<br>S21 \| S22<br>1957 |
| | Continue over small sandstone rises and sand ridges and swales. |
| 79.70 | Point for the witness cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T39S R12E<br>W C<br>S16 \| S15<br>S21 \| S22<br>1957 |
| 80.00 | True point for the cor. of secs. 15, 16, 21 and 22 falls on the steep E. slope of a sandstone knoll, where the corner cannot be perpetuated. |
| | Land, rolling desert, sloping gently to the W.<br>Soil, sand and exposed sandstone.<br>Timber, none; undergrowth, medium black brush, scattered sagebrush and weeds. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over gently rolling desert, through medium undergrowth, over a series of small sandstone rises and sand rolls. |
| 1.80 | E. slope of sandstone knob. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T39S R12E<br>¼<br>S16 \| S15<br>1957 |
| 78.00 | E. side of top of sandstone knoll; desc. 20 ft. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.<br>T39S R12E<br>S 9 \| S10<br>S16 \| S15<br>1957 |

| Chains | |
|---|---|
| | Deposit charcoal at the base of the post. |
| | Land, rolling desert.<br>Soil, sand and exposed sandstone.<br>Timber, none; undergrowth, black brush, sagebrush, mountain rush and weeds. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over gently rolling desert, sloping gently to the W., through medium undergrowth. |
| 6.00 | Thence over a nearly level black brush covered bench. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T39S R12E<br>¼<br>S 9 \| S10<br>1957 |
| | Continue over bench land. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T39S R12E<br>S 4 \| S 3<br>S 9 \| S10<br>1957 |
| | Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post. |
| | Land, nearly level bench.<br>Soil, sandy loam.<br>Timber, none; Undergrowth, medium black brush, sagebrush, mountain rush and weeds. |
| | N. 0° 01' W., bet. secs. 3 and 4. |
| | Over nearly level desert land, through medium undergrowth. |
| 20.70 | Sandstone spur, projects W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T39S R12E<br>¼<br>S 4 \| S 3<br>1957 |
| 79.73 | The cor. of secs. 3, 4, 33 and 34. |

| Chains | |
|---|---|
| | Land, gently rolling desert.<br>Soil, sandy loam, with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, mountain rush and weeds. |
| | Beginning at the cor. of secs. 2, 3, 34 and 35 on the N. boundary of the township.<br><br>S. 0° 01' E., bet. secs. 2 and 3.<br><br>Over rolling desert land, sloping gently to the W., through medium undergrowth. |
| 39.82 | Point for the ¼ sec. cor. of secs. 2 and 3.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>¼<br>S 3 \| S 2<br>1957<br><br>Deposit a sandstone, 5x4x2 ins., mkd. with a cross (X) at the base of the post.<br><br>Continue over nearly level land. |
| 79.82 | Point for the cor. of secs. 2, 3, 10 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.<br><br>T39S R12E<br>S 3 \| S 2<br>S10 \| S11<br>1957<br><br>Land, gently rolling desert.<br>Soil, sandy loam, with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, mountain rush and weeds. |
| | S. 89° 50' E., bet. secs. 2 and 11.<br><br>Over nearly level desert land, sloping gently to the W. |
| 39.00 | Small drain, 6 lks. wide, drains NW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.<br><br>T39S R12E<br>¼ S 2<br>S11<br>1957<br><br>Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.<br><br>Asc. 80 ft. over a W. slope. |

Portion of the Subdivision, T. 39 S., R. 12 E.

| Chains | |
|---|---|
| 78.90 | Wash, 40 lks. wide, 2 ft. deep, drains NW. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to solid rock, and in a collar of stone, with brass cap mkd.<br><br>T39S R12E<br>S 2 \| S 1<br>S11 \| S12<br>1957<br><br>Deposit a sandstone, 4x4x3 ins., mkd. with a cross (X) at the base of the post.<br><br>Land, gently rolling desert.<br>Soil, sandy loam, with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, scant grass and weeds. |
| | N. 0° 03' W., bet. secs. 1 and 2.<br><br>Over gently rolling desert land, through medium undergrowth. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>¼<br>S 2 \| S 1<br>1957<br><br>Deposit a sandstone, 4x4x3 ins., mkd. with a cross (X) at the base of the post. |
| 68.10 | Spur, projects NW.; desc. 70 ft. |
| 80.00 | The cor. of secs. 1, 2, 35 and 36.<br><br>Land, rolling desert.<br>Soil, sandy loam, with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, mountain rush, scant grass and weeds. |
| | Beginning at the true point for the cor. of secs. 15, 16, 21 and 22.<br><br>N. 89° 54' W., bet. secs. 16 and 21.<br><br>Over rolling desert land, sloping gently to the W., through medium undergrowth. |
| 1.80 | W. slope of sandstone knoll. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>¼ S16<br>S21<br>1957 |

| Chains | |
|---|---|
| 47.50 | N. slope of sandstone knob; desc. 110 ft. over W. slope. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, to solid rock, and in a mound of stone, with brass cap mkd.<br><br>T39S R12E<br>S17 \| S16<br>S20 \| S21<br>1957<br><br>Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.<br><br>Land, gently rolling desert, sloping to the W.<br>Soil, sand with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, wild apple and weeds. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over rolling desert land, sloping gently to the W., through medium undergrowth. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>¼<br>S17 \| S16<br>1957<br><br>Deposit a sandstone, 4x4x3 ins., mkd. with a cross (X) at the base of the post. |
| 69.00 | Enter black brush covered flat. |
| 76.30 | Wash, 10 lks. wide, 1 ft. deep, drains NW., 1.00 ch.; thence SW. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.<br><br>T39S R12E<br>S 8 \| S 9<br>S17 \| S16<br>1957<br><br>Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.<br><br>Land, nearly level desert.<br>Soil, sandy loam, with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, mountain rush and weeds. |
| | Beginning at the cor. of secs. 9, 10, 15 and 16.<br><br>N. 89° 54' W., bet. secs. 9 and 16. |

| Chains | |
|---|---|
| | Over nearly level desert land, through medium undergrowth; desc. 80 ft. over a gentle W. slope. |
| 39.99 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R12E<br>¼ S 9 / S16<br>1957 |
| | Desc. 90 ft. over a gentle W. slope. |
| 79.98 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, nearly level desert.<br>Soil, sandy loam, with exposed sandstone.<br>Timber, none; undergrowth, medium black brush, sagebrush, mountain rush and weeds. |
| | Beginning at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Over badly broken desert land, through widely scattered timber and scant undergrowth; desc. 150 ft. over a N. sandstone slope. |
| 10.50 | Draw, drains NW.; asc. 130 ft. over a series of sandstone ribs, knobs and crevices. |
| 28.30 | High sandstone knob; desc. 60 ft. over a W. sandstone slope; asc. 25 ft. |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33. |
| | On a sandstone knob |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R12E<br>¼<br>S32 \| S33<br>1957 |
| | Thence, over a series of sandstone ribs, knobs and crevices. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | In the bottom of a small sandstone draw, draining W. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd. |
| | T39S R12E<br>S29 \| S28<br>S32 \| S33<br>1957 |

| Chains | |
|---|---|
| | Land, badly broken desert.<br>Soil, barren sandstone, with sand in the pockets.<br>Timber, widely scattered dwarf juniper.<br>Undergrowth, very scant bitter brush, mountain rush and wild apple. |
| | Beginning at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township.<br><br>N. 0° 03' W., bet. secs. 31 and 32.<br><br>Over broken desert land, through widely scattered timber and scant undergrowth; asc. 40 ft. over a S. slope. |
| 6.80 | Sandstone spur, projects NE.; desc. 480 ft. over a broken NE. slope. |
| 39.50 | Point for the witness ¼ sec. cor. of secs. 31 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.<br><br>T39S R12E<br>¼<br>S31↑S32<br>W C<br>1957<br><br>Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post. |
| 40.00 | True point for the ¼ sec. cor. of secs. 31 and 32 falls in a wash, 10 lks. wide, 2 ft. deep, draining NW. |
| 41.50 | Same wash, drains NE.; desc. 115 ft. over a broken NE. slope. |
| 50.50 | Thence over nearly level black brush covered bench land. |
| 78.50 | N. edge of bench land; desc. a N. sandy slope. |
| 79.90 | Point for the witness cor. of secs. 29, 30, 31 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.<br><br>T39S R12E<br>S30↑S29<br>S31 \| S32<br>W C<br>1957<br><br>Deposit charcoal at the base of the post. |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32 falls in a wash draining E., where the cor. cannot be perpetuated.<br><br>Land, broken and nearly level desert.<br>Soil, exposed sandstone the first 40 chs., sand the balance.<br>Timber, widely scattered dwarf juniper.<br>Undergrowth, dense black brush and scant grass on the sand, widely scattered the balance. |
| | From the cor. of secs. 28, 29, 32 and 33.<br><br>N. 89° 51' W., bet. secs. 29 and 32.<br><br>Over badly broken desert land, through widely scattered timber and scant undergrowth, over a series of sandstone knobs and crevices. |

| Chains | |
|---|---|
| 7.50 | Sandstone spur, projects N., thence across Lake Canyon by triangulation. |
| 15.00 | Bottom of Lake Canyon, drains NW. |
| 17.20 | High sandstone spur, on W. side of Lake Canyon, thence across deep draw, by triangulation. |
| 40.00 | Point for the ¼ sec. cor. of secs. 29 and 32 falls on the face of a sandstone ledge, where the cor. cannot be perpetuated. |
| 40.50 | Draw, drains N. |
| 45.80 | Point for the witness ¼ sec. cor. of secs. 29 and 32. |
| | On a sandstone spur, on the W. side of a deep draw |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X), and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R12E<br>¼ S29 → W<br>S32 C<br>1957 |
| | Desc. 40 ft. over a W. sandstone slope. |
| 55.40 | E. rim of deep draw, bears NE. and SW.; desc. 160 ft. over a broken W. slope. |
| 63.00 | Bottom of draw, drains NE.; asc. 110 ft. over a broken E. slope. |
| 67.80 | W. rim of draw, bears NE. and SW.; thence over rolling land. |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32. |
| | Land, broken desert.<br>Soil, exposed sandstone, with sand in the pockets and draws.<br>Timber, widely scattered dwarf juniper, with a few cottonwoods in the canyon bottom.<br>Undergrowth, very scant black brush, bitter brush, with greasewood and rabbit brush in the canyon bottom. |

## GENERAL DESCRIPTION

T. 39 S., R. 12 E. is nearly all land of extensive sand dunes and low, barren sandstone knobs, all with a general W. slope. An exception to this rule is found in the SW. cor. of the township, which is the rough and broken NE. slope of Nakai Dome, an anticlinal structure, which slopes NW. through this area. The entire township is drained NW. to the Colorado River by Lake Canyon. Elevations above sea level range from about 5,000 ft. in the extreme SE. cor. to 3,800 ft. in the bottom of Lake Canyon as it leaves the township in sec. 7, draining NW.

Timber is limited to very thinly scattered scrub pinion and juniper.. There are stands of cottonwood trees in the bottom of Lake Canyon, There are some grasses in the more protected areas. Undergrowth is small black brush, sage, mountain rush, weeds and sunflowers.

Limited cattle grazing is the only use to which the land in this township is now being put.

Chains

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Max E. Swindle | Principal Assistant |
| Lee B. Coon | Chainman |
| Parley Pratt | Flagman |
| Richard N. Brand | Axeman |
| Max L. Sevy | Cornerman |

# CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August 1956, I have surveyed the north boundary and a portion of the subdivision of Township 39 South, Range 12 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

February 28, 1958

Salt Lake City, Utah

Fred R. Chappell

Fred R. Chappell -- Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 27th day of August I have supervised the survey of the north boundary and a portion of the subdivision of Township 39 South, Range 12 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed under my supervision, and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

February 28, 1958

Salt Lake City, Utah

Vern E. Lane

Vern E. Lane - Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* SEP 22 1958, 19

The foregoing field notes of the survey of the north boundary and a portion of the subdivision of Township 39 South, Range 12 East, Salt Lake Meridian, Utah

executed by Fred R. Chappell, under the supervision of Vern E. Lane

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in~~

~~, is a true~~ copy of the original field notes.

~~Cadastral Engineering Staff Officer.~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-8

4—679
(September 1948)

c.3-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

# FIELD NOTES

of the Survey

of

the North and East Boundaries

and

a Portion of the Subdivision

of

Township 39 South, Range 13 East

*Of the* Salt Lake *Meridian,*

*n the State of* Utah

EXECUTED BY

Vern E. Lane — Cadastral Surveyor (Chief of Party)

Donald A. Cannon — Cartographic Survey Aid

Dell Cazier — Cadastral Surveyor

*Jnder special instructions dated* May 13, *19* 55, *which provided*

*or the surveys included under Group No.* 405, *approved* May 31, 1955

*nd assignment instructions dated* July 9, *19* 57

*Survey commenced* August 9, *19* 57

*Survey completed* August 29, *19* 57

U. S. GOVERNMENT PRINTING OFFICE 16—66770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 13 East

| | | | | | |
|---|---|---|---|---|---|
| 9<br>6 | 9<br>5 | 8<br>4 | 7<br>14 3 | 7<br>15 2 16<br>15 | 6<br>1 5 |
| 7 | 8 | 9 | 13 10 | 11 | 12 4 |
| 18 | 17 | 18<br>17 16<br>16 | 13 15 | 14 | 13 4 |
| 19 | 20 | 21 | 12 22 | 23 | 24 3 |
| 30 | 29 | 28 | 12 27 | 26 | 25 2 |
| 31 | 20<br>19 32 18 | 33 | 11 34 | 35 | 10<br>10 36 2 |

16—52770-1

Dell Cazier _____
D. A. Cannon _____

2477

Township 39 South, Range 13 East

Chains

The west boundary was surveyed by R. C. Yundt and its record appears in the official record of the 1930 survey of the range line between Rs. 12 and 13 E., T. 39 S. The south boundary was concurrently surveyed under Group 405 by D. A. Cannon and its record appears in the field notes of the 1957 survey of T. 40 S., R. 13 E.

The following field notes are those of the survey of the east and north boundaries and a portion of the subdivision of T. 39 S., R. 13 E. deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered State school sections.

This survey was executed with two W. and L. E. Gurley transits Nos. 541331 and 541326, both instruments being constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were maintained in precise adjustment throughout the progress of this survey.

The directions of the lines of survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation and supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the record. In accordance with the intent of the special instructions all subdivisional corners established were calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with narrow steel tapes 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tapes were tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show the horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; line inaccessible were run by traverse or triangulation methods. The distances to topographic features, on lines run by traverse or triangulation, are approximate as scaled from U. S. G. S. topographic sheets. The details of such triangulation or traverse have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The geographic position for the SE. corner of T. 39 S., R. 13 E. is at latitude 37° 20' 44.554" N. and longitude 110° 25' 09".041 W., as determined by traverse from U. S. G. S. triangulation station "Castle" which is situated in sec. 25 of this township.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° East.

## East Boundary, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | Beginning at the cor. of Ts. 39 and 40 S., Rs. 13 and 14 E., monumented by an iron post, 3 ins. diam., set, mkd., and witnessed as described in the official record. |
| | North, bet. secs. 31 and 36. |
| | Over rolling to broken land, through scattered timber; asc. 70 ft. over S. slope. |
| 14.50 | Base of abrupt ascent, bears N. irregularly and S. 30° W.; asc. 220 ft. over ledges along E. slope. |
| 39.40 | W. rim of Mike's Canyon, a ledge 150 ft. high, bears SE. and S. 10° W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S<br>R13E R14E<br>¼<br>S36 \| S31<br>1957 |
| | Asc. 50 ft. over SE. slope. |
| 48.30 | Top of ridge bearing NE. and S. 20° W.; desc. 50 ft. over NW. slope. |
| 69.90 | Wash, 10 lks. wide, 2 ft. deep, drains S. 60° W.; asc. 50 ft. over SE. slope. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd. |
| | T39S<br>R13E R14E<br>S25 \| S30<br>S36 \| S31<br>1957 |
| | From this cor. U. S. G. S. Triangulation Station "Castle" bears N. 32° 20' W., 61.96 chs. dist; a brass tablet drilled in sandstone, conforming to the record. The geographic position of this station is latitude 37° 22' 10.907" N., longitude 110° 25' 36.130" W.<br>Land, rolling to broken.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered juniper. |
| | North, bet. secs. 25 and 30. |
| | Asc. 20 ft. over S. slope; through scattered timber. |
| 8.60 | Spur, slopes SW.; desc. 180 ft. over NW. slope. |
| 26.30 | Wash, 10 lks. wide, 3 ft. deep, drains irregularly SW.; asc. 60 ft. over SE. slope. |
| 32.20 | Spur, slopes SW.; desc. 40 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30. |

East Boundary, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T39S<br>R13E R14E<br>¼<br>S25 \| S30<br>1957<br>Desc. 10 ft. over NW. slope. |
| 41.00 | Wash, 20 lks. wide, 5 ft. deep, drains S. 20° W.; asc. 220 ft. over broken S. slope. |
| 78.50 | Top of ascent, bears NE. and SW. |
| 80.00 | Point for the cor. of secs. 19, 24, 25 and 30.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground with brass cap mkd.<br>T39S<br>R13E R14E<br>S24 \| S19<br>S25 \| S30<br>1957<br>No suitable accessories available.<br>Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | North, bet. secs. 19 and 24. |
| | Through thinly scattered timber; desc. 40 ft. over NE. slope. |
| 21.30 | Spur, slopes N. 30° E.; desc. 120 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 19 and 24.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br>T39S<br>R13E R14E<br>¼<br>S24 \| S19<br>1957<br>No suitable accessories available.<br>Desc. 90 ft. over NW. slope. |
| 61.40 | Wash, 2 chs. wide, 30 ft. deep, drains S. 80° W.; asc. 60 ft. over S. slope. |
| 67.40 | Spur, slopes SW.; desc. 30 ft. over NW. slope. |
| 75.10 | Wash, 10 lks. wide, 5 ft. deep, drains W. for about 3 chs. thence S. 30° W.; asc. 40 ft. over S. slope. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 13, 18, 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 2 ft. base to top, with brass cap mkd.<br><br>T39S<br>R13E R14E<br>S13\|S18<br>S24\|S19<br>1957<br><br>Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | North, bet. secs. 13 and 18.<br><br>Through thinly scattered scrub timber; asc. 140 ft. over S. slope. |
| 22.20 | Spur, slopes S. 30° W.; desc. 60 ft. along W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 13 and 18.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base to top, with brass cap mkd.<br><br>T39S<br>R13E R14E<br>¼<br>S13\|S18<br>1957<br><br>Desc. 60 ft. over N. slope. |
| 65.40± | Rim of Castle Creek Canyon, a ledge 30 ft. high, bears N. 60° E. and S. 60° W.; desc. 60 ft. over N. slope.<br>Timber, thinly scattered juniper. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br><br>T39S<br>R13E R14E<br>S12\|S 7<br>S13\|S18<br>1957<br><br>No suitable accessories available.<br><br>Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered juniper. |
| | North, bet. secs. 7 and 12.<br><br>Through thinly scattered scrub timber; desc. 140 ft. over N. slope. |
| 21.60 | Wash in the bottom of Castle Creek Canyon, 1 ch. wide, 5 ft. deep, drains N. 20° W.; asc. 10 ft. over W. slope. Jeep road follows along bottom of wash. |
| 79.50 | |

East Boundary, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| 28.50 | Wash, 30 lks. wide, 20 ft. deep, drains S. 30° W. about 3 chs. to junction with wash in bottom of Castle Creek Canyon; asc. 80 ft. over S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone, 3 ft. base, to top, with brass cap mkd.<br>T39S<br>R13E R14E<br>¼<br>S12\|S 7<br>1957<br>Asc. 40 ft. over S. slope. |
| 54.50 | Spur, slopes SW.; asc. 70 ft. along W. slope. |
| 78.00 | Slope changes to NW.; desc. 30 ft. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.<br>T39S<br>R13E R14E<br>S 1\|S 6<br>S12\|S 7<br>1957<br>No suitable accessories available.<br>Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered juniper. |
| | North, bet. secs. 1 and 6.<br>Through thinly scattered scrub timber; desc. 40 ft. over NW. slope. |
| 10.90 | Wash, 30 lks. wide, 20 ft. deep, drains SW.; asc. 100 ft. over S. slope. |
| 15.10 | Spur, slopes SW.; desc. 140 ft. over NW. slope. |
| 25.20 | Wash, 10 lks. wide, 10 ft. deep, drains SW.; asc. 110 ft. over S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br>T39S<br>R13E R14E<br>¼<br>S 1\|S 6<br>1957<br>No suitable accessories available.<br>Asc. 50 ft. over SE. slope. |
| 50.80 | Spur, slopes SW.; desc. 70 ft. over NW. slope. |

East Boundary, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| 62.00 | Wash, 40 lks. wide, 20 ft. deep, course S. 30° W.; asc. 90 ft. over SE. slope. |
| 80.00 | Point for the cor. of Ts. 38 and 39 S., Rs. 13 and 14 E. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |

T38S
R13E R14E
S36 | S31
S 1 | S 6
T39S
1957

No suitable accessories available.

Land, rolling.
Soil, sand and exposed sandstone.
Timber, thinly scattered scrub juniper.

North Boundary, T. 39 S., R. 13 E.

Beginning at the cor. of Ts. 38 and 39 S., Rs. 13 and 14 E.

S. 89° 58' W., bet. secs. 1 and 36.

Over rolling land, through thinly scattered scrub timber.

| | |
|---|---|
| 2.20 | Trail road, bears N. 10° E. and S. 10° W., thence over nearly level land. |
| 10.20 | Wash, drains S.; asc. 230 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |

T38S R13E
S36 | S31
¼ | S 1
T39S
1957

| | |
|---|---|
| 40.30 | Top of S. end of flat topped butte sloping S.; desc. 340 ft. along broken SW. slope. |
| 77.80 | Wash, 20 lks. wide, 10 ft. deep, drains NW.; asc. 10 ft. to top of small spur, projecting N. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd. |

T38S R13E
S35 | S36
S 2 | S 1
T39S
1957

Land, rolling.
Soil, sand and exposed sandstone.
Timber, thinly scattered scrub juniper.

| Chains | |
|---|---|
| | S. 89° 58' W., bet. secs. 2 and 35. |
| | Desc. 70 ft. over rolling land, through thinly scattered scrub timber |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T38S R13E<br>¼ S35<br>S 2<br>T39S<br>1957 |
| | No suitable accessories available. |
| 49.50 | Small wash, drains SW. from SE. |
| 56.00 | Same wash, drains NW. from SE. |
| | Asc. 40 ft. over rolling NE. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T38S R13E<br>S34 \| S35<br>S 3 \| S 2<br>T39S<br>1957 |
| | No suitable accessories available. |
| | Land, rolling.<br>Soil, sand.<br>Timber, thinly scattered scrub juniper |
| | S. 89° 58' W., bet. secs. 3 and 34. |
| | Asc. 70 ft. over E. slope. |
| 6.40 | E. edge of small mesa, bears N. 10° W. and S. 10° E.; desc. 20 ft. over top of mesa. |
| 15.40 | W. edge of mesa, bears N. and S.; desc. 100 ft. over W. slope. |
| 19.80 | Base of abrupt descent, bears N. and S.; desc. 10 ft. along N. slope. |
| 29.20 | Base of abrupt ascent, bears N. 20° W. and S.; asc. 90 ft. over NE. slope. |
| 37.10 | Top of ascent on N. slope of small mesa, slopes N.; desc. 10 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd. |
| | T38S R13E<br>¼ S34<br>S 3<br>T39S<br>1957 |

| Chains | |
|---|---|
| | No suitable accessories available. |
| | Desc. 120 ft. over NW. slope. |
| 53.60 | Base of abrupt descent, bears NE. and S. 20° W.; desc. 60 ft. over slight NW. slope. |
| 69.20 | Wash, 20 lks. wide, 2 ft. deep, drains S. 70° W.; desc. 30 ft. along slight S. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock, and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T38S R13E<br>S33 \| S34<br>S 4 \| S 3<br>T39S<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | S. 89° 58' W., bet. secs. 4 and 33. |
| | Desc. 10 ft. along slight S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock, and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T38S R13E<br>¼ S33<br>S 4<br>T39S<br>1957 |
| | Desc. 10 ft. along slight S. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T38S R13E<br>S32 \| S33<br>S 5 \| S 4<br>T39S<br>1957 |
| | No suitable accessories available. |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

North Boundary, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | S. 89° 58' W., bet. secs. 5 and 32. |
| | Asc. 10 ft. along S. slope. |
| 20.60 | Low spur, slopes S. 10° W.; desc. 90 ft. over slight W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 2½ ft. base to top, with brass cap mkd.<br>T38S R13E<br>¼ S32/S 5<br>T39S<br>1957 |
| | Desc. 70 ft. over W. slope. |
| 62.20 | Wash, 20 lks. wide, 4 ft. deep, drains SW.; desc. 10 ft. over rolling land. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T38S R13E<br>S31 \| S32<br>S 6 \| S 5<br>T39S<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | S. 89° 58' W., bet. secs. 6 and 31. |
| | Desc. 60 ft. over gentle W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap mkd.<br>T38S R13E<br>¼ S31/S 6<br>T39S<br>1957 |
| | No suitable accessories available. |
| | Desc. 80 ft. over gentle W. slope. |
| 62.00 | Wash, 40 lks. wide, 5 ft. deep, drains NW.; asc. 20 ft. over NE. slope. |
| 69.80 | Low spur, slopes N.; desc. 30 ft. over NW. slope. |
| 79.36 | The cor. of Ts. 38 and 39 S., Rs. 13 and 14 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in official record.<br>Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, none. |

| Chains | |
|---|---|
| | From the cor. of secs. 1,2, 35 and 36, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., bet., mkd. and witnessed as described in the field notes of T. 40 S., R. 13 E., surveyed concurrently under this same group. N. 0° 01' W., bet. secs. 35 and 36. |
| | Over broken land, through scattered timber; asc. 200 ft. over ledges along E. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 35 and 36 falls on inaccessible point on ledges facing E. where the cor. cannot be monumented; asc. approx. 150 ft. |
| 50.60 | W. rim of canyon, a ledge about 30 ft. high, bears N. 60° E. and S. 10° W.; asc. 20 ft. over SE. slope. |
| 53.70 | Point selected for the witness ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼<br>S35 \| S36<br>W. C.<br>1957 |
| | Asc. 50 ft. along E. slope. |
| 75.00 | Ridge, bears N. 30° E. and S. 30° W.; desc. over slight NW. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut on sandstone surface and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S26 \| S25<br>S35 \| S36<br>1957 |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered juniper. |
| | From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp. S. 89° 57' W., bet. secs. 25 and 36. |
| | Through scattered scrub timber; desc. 40 ft. over SW. slope. |
| 11.30 | E. rim of box canyon, a ledge about 20 ft. high, bears N. 20° E. and S. 20° W.; desc. 300 ft. over ledges on W. slope. |
| 23.00 | Wash, in bottom of canyon, 30 lks. wide, 3 ft. deep, course S. 20° W.; asc. 350 ft. over ledges on E. slope. |
| 33.20 | W. rim of box canyon, a ledge about 40 ft. high, bears N. 30° E. and S. 30° W.; asc. 50 ft. over E. slope. |
| 36.10 | Spur, slopes S. 10° W.; desc. 40 ft. over W. slope. |
| 40.01 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

Portion of the Subdivision, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | T39S R13E<br>¼ S25<br>S36<br>1957 |
| | Desc. 30 ft. over W. slope. |
| 45.70 | Wash, 10 lks. wide, 20 ft. deep, drains S.; asc. 80 ft. over ledgy SE. slope. |
| 62.10 | A ledge, about 20 ft. high, bears N. 20° E. and S. irregularly; asc. 40 ft. over SE. slope. |
| 77.50 | Spur, projects N. 50° E.; desc. over slight N. slope. |
| 80.02 | The cor. of secs. 25, 26, 35 and 36. |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp. monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of T. 40 S., R. 13 E. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Through thinly scattered scrub juniper; desc. 80 ft. over NW. slope. |
| 7.10 | Wash, in the bottom of Castle Creek Canyon, 30 lks. wide, 3 ft. deep, drains SW.; asc. 130 ft. over SE. slope. |
| 30.00 | Top of ascent, bears N. 25° E. and S. 25° W.; desc. over slight NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼<br>S33 \| S34<br>1957 |
| | Asc. 80 ft. over SW. slope. |
| 52.50 | Low spur, slopes SE. |
| 61.00 | Base of abrupt ascent, bears N. and S. 70° W.; asc. 270 ft. over ledges on broken NE. to SW. slope. |
| 77.50 | W. rim of Castle Creek Canyon, a ledge about 50 ft. high, bears N. 70° W. about 5 chs., thence S. 10° W. and E. about 2 chs., thence NE.; asc. 10 ft. over S. slope. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S28 \| S27<br>S33 \| S34<br>1957 |
| | Land, broken breaks of Castle Creek Canyon.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |

| Chains | Remarks |
|---|---|
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Through scattered timber; asc. 50 ft. over SE. slope. |
| 36.10 | Ridge, bears NE. and SW.; desc. 10 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T39S R13E<br>¼<br>S28 \| S27<br>1957 |
| | Desc. 30 ft. along gentle NW. slope. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground and in a collar of stone, with brass cap mkd.<br>T39S R13E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over rolling land, through thinly scattered timber; desc. 110 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br>T39S R13E<br>¼<br>S21 \| S22<br>1957 |
| | No suitable accessories available. |
| | Desc. 40 ft. over NW. slope. |
| 48.70 | Wash, 10 lks. wide, 4 ft. deep, drains N. 70° W.; desc. 10 ft. over NW. slope. |
| 79.90 | Desc. over ledge 20 ft. high, bearing N. 20° E. and S. 10° W.; desc. 20 ft. abruptly over NW. slope. |
| 80.00 | True point for the cor. of secs. 15, 16, 21 and 22 falls on face of ledge 20 ft. high, facing NW., where the cor. cannot be perpetuated. |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Through thinly scattered timber. |
| .20 | Point selected for the witness cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S16 \| S15<br>S21 \| S22<br>W C<br>1957 |
| | Desc. 90 ft. along rolling W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut on sandstone surface and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼<br>S16 \| S15<br>1957 |
| | Asc. 20 ft. along rolling W. slope. |
| 66.90 | Top of ascent, on W. end of small flat topped mesa, slopes W.; desc. 100 ft. over NW. slope. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S 9 \| S10<br>S16 \| S15<br>1957 |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over gently rolling land, through thinly scattered scrub timber. |
| 5.30 | Jeep road, Clay Hills Pass-Nokai Dome, bears N. 70° E. and S. 70° W. |
| 7.40 | Wash, 20 lks. wide, 5 ft. deep, drains irregularly W.; desc. 40 ft. over gentle N. slope. |
| 23.70 | Wash, 50 lks. wide, 30 ft. deep, drains W.; asc. 40 ft. over gentle S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |

| Chains | |
|---|---|
| | T39S R13E<br>¼<br>S 9 \| S10<br>1957 |
| | No suitable accessories available. |
| 43.20 | Wash, 10 lks. wide, 10 ft. deep, drains S. 60° W.; asc. 20 ft. over slight SE. slope. |
| 58.20 | Base of abrupt ascent, bears N. 30° E. and S. 30° W.; asc. abruptly 90 ft. over SE. slope. |
| 63.40 | S. edge of small flat topped mesa, bears N. 30° E. and S. 30° W.; desc. 10 ft. over slight W. slope, on top of mesa. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to bedrock, with brass cap mkd. |
| | T39S R13E<br>S 4 \| S 3<br>S 9 \| S10<br>1957 |
| | No suitable accessories available. |
| | Land, rolling,<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | North, bet. secs. 3 and 4. |
| | Over rolling land, through thinly scattered scrub juniper. |
| 4.90 | N. edge of small flat topped mesa, bears S. 70° E. and W.; desc. abruptly 50 ft. over N. slope. |
| 11.60 | Drain, drains W.; desc. 60 ft. along W. slope. |
| 33.10 | Drain, drains SW.; cont. along rolling W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground with brass cap mkd. |
| | T39S R13E<br>¼<br>S 4 \| S 3<br>1957 |
| | Cont. over gently rolling land. |
| 75.00 | Wash, 20 lks. wide, 2 ft. deep, drains W. |
| 79.86 | The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp. |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |

Portion of the Subdivision, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Through thinly scattered scrub timber; asc. 80 ft. over NE. slope. |
| 10.70 | Top of ascent, slopes sharply E. about 2 chs.; desc. 60 ft. over SE. slope. |
| 26.90 | Base of steep descent, bears N. 20° E. and SW.; desc. 40 ft. over SW. slope. |
| 39.91 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T39S R13E<br>¼<br>S3 \| S2<br>1957 |
| | Desc. 30 ft. over rolling SW. slope. |
| 69.90 | Wash, 20 lks. wide, 10 ft. deep, drains S. 70° W.; asc. 20 ft. along W. slope. |
| 78.00 | Top of ascent, slopes S. 70° W., cont. along W. slope. |
| 79.91 | Point for the cor. of secs. 2, 3, 10 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T39S R13E<br>S 3 \| S 2<br>S10 \| S11<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | East, bet. secs. 2 and 11, on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12, on the E. bdy. and the cor. of secs. 3, 4, 9 and 10, as specified in the special instructions. |
| | Through thinly scattered scrub timber; asc. 80 ft. over W. slope. |
| 34.90 | Spur, slopes N.; desc. 20 ft. over E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd. |
| | T39S R13E<br>¼ S 2<br>S11<br>1957 |
| | Desc. 20 ft. over E. slope. |

| Chains | |
|---|---|
| 45.40 | Wash, 10 lks. wide, 1 ft. deep, drains N. 10° W.; asc. 260 ft. over W. slope. |
| 78.50 | High sandstone spur, projects S. 20° W.; desc. 10 ft. over SE. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S 2 \| S 1<br>S11 \| S12<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 01' E., bet. secs. 1 and 2. |
| | Asc. 30 ft. over SE. slope, through thinly scattered scrub juniper. |
| 5.60 | Spur, slopes S. 20° W.; asc. 40 ft. along broken W. slope. |
| 24.00 | Top of asc. slopes W.; desc. 90 ft. over broken NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base, to top, with brass cap mkd. |
| | T39S R13E<br>¼<br>S2 \| S1<br>1957 |
| | Desc. 40 ft. over ledge bearing N. 30° E. and S. 30° W.; thence desc. 120 ft. over rolling land draining NW. |
| 79.95 | The cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp. |
| | Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | From the true point for the cor. of secs. 15, 16, 21 and 22. |
| | West, bet. secs. 16 and 21. |
| | Over rolling desert land, through very thinly scattered scrub juniper; desc. 170 ft. over rolling W. slope. |
| 38.10 | Small wash, drains N. 20° W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. |

Portion of the Subdivision, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | T39S R13E<br>¼ S16<br>S21<br>1957 |
| | Asc. 30 ft. over E. slope. |
| 43.40 | Low spur, slopes NW.; desc. 100 ft. over NW. slope. |
| 77.20 | Wash, 10 lks. wide, 5 ft. deep, drains N. 30° W. |
| 80.00 | Point for the cor. of secs. 16, 17, 20, and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. |
| | T39S R13E<br>S17 \| S16<br>S20 \| S21<br>1957 |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over gently rolling land, through thinly scattered scrub juniper; desc. 30 ft. along rolling W. slope. |
| 6.90 | Wash, 20 lks. wide, 8 ft. deep, drains W.; desc. 30 ft. along rolling W. slope. |
| 15.70 | Wash, 30 lks. wide, 10 ft. deep, drains W.; asc. 40 ft. along rolling W.slop |
| 26.70 | Jeep road, Clay Hills Pass-Nokai Dome, bears N. 80° E. and S. 80° W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd. |
| | T39S R13E<br>¼<br>S17 \| S16<br>1957 |
| | Asc. 20 ft. along rolling W. slope. |
| 71.60 | Base of abrupt ascent, bears N. 60° W. and E.; asc. 40 ft. over S. slope. |
| 74.90 | S. edge of small flat topped mesa, bears N. 60° W. and E.; cont. along top of mesa. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap mkd. |
| | T39S R13E<br>S 8 \| S 9<br>S17 \| S16<br>1957 |
| | No suitable accessories available. |
| | Land, rolling. |

| Chains | | Chains |
|---|---|---|
| | Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. | |
| | From the cor. of secs. 9, 10, 15 and 16, | |
| | N. 89° 59' W., bet. secs. 9 and 16. | |
| | Over slightly rolling land, through thinly scattered scrub timber; desc. 20 ft. over rolling land. | |
| 15.50 | Jeep road, Clay Hills Pass-Mokai Dome, bears N. 70° E. and S. 70° W.; cont. over nearly level land. | |
| 26.80 | Wash, 10 lks. wide, 1 ft. deep, drains N.; asc. 10 ft. over E. slope. | |
| 40.01 | Point for the ¼ sec. cor. of secs. 9 and 16. | |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>T39S R13E<br>¼ S 9 / S16<br>1957 | |
| | No suitable accessories available. | |
| | Asc. 30 ft. over E. slope. | |
| 60.30 | E. edge of small flat topped mesa, bears NW. and SE. | |
| 74.00 | Top of ascent, slopes NW.; desc. 20 ft. over top of mesa on W. slope. | |
| 80.02 | The cor. of secs. 8, 9, 16 and 17. | |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, very thinly scattered scrub juniper. | |
| | From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of T. 40 S., R. 13 E. N. 0° 03' W., betw. secs. 32 and 33. | |
| | Through scattered scrub timber; asc. 100 ft. over S. slope. | |
| 15.10 | Spur, slopes S. 20° W.; desc. 20 ft. along W. slope. | |
| 30.00 | Wash, 20 lks. wide, 5 ft. deep, course S. 20° W.; asc. 80 ft. over SE. slope. | |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33. | |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone, 2½ ft. base to top, with brass cap mkd.<br>T39S R13E<br>¼<br>S32 \| S33<br>1957 | |

Portion of the Subdivision, T. 39 S., R. 13 E.

| Chains | |
|---|---|
| | Asc. 70 ft. over SE. slope. |
| 57.30 | Top of ascent, bears NE. and SW.; desc, 70 ft. over N. slope. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 2½ ft. base to top, with brass cap mkd.<br>T39S R13E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, scattered juniper and pinion. |
| | From the cor. of secs. 5, 6, 31 and 32 on the S. bdy., which is mkd. by an iron post, 2½ ins. diam., previously described in the field notes of the concurrent survey of Tp. 40 S., R. 13 E. |
| | N. 0° 03' W.; bet. secs. 31 and 32. |
| | Over rolling land, through scattered dwarf juniper and pinion. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>T39S R13E<br>¼<br>S31 \| S32<br>1957 |
| | Deposit a sandstone, 6x9x2 ins., mkd. with a cross (X) alongside post. |
| | Cont. over rolling land. |
| 65.00 | Wash, 20 lks. wide, 1 ft. deep, drains S. 80° W. |
| 80.00 | Point for the cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br>T39S R13E<br>S30 \| S29<br>S31 \| S32<br>1957 |
| | Land, rolling.<br>Soil, shallow sandy silt.<br>Timber, scattered dwarf juniper and pinion;<br>Undergrowth, black brush, bitter brush, mountain rush and silver leaf. |
| | From the cor. of secs. 28, 29, 32 and 33, |

| Chains | |
|---|---|
| | N. 89° 50' W., bet. secs. 29 and 32. |
| | Over rolling land, through scattered dwarf juniper and pinion. |
| 40.00 | Point for the ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T39S R13E<br>¼ S29/S32<br>1957 |
| | Cont. over rolling land. |
| 61.00 | Wash, 10 lks. wide, 1 ft. deep, drains S. 20° W. |
| 69.00 | Wash, 10 lks. wide, 1 ft. deep, drains S. 10° W. |
| 80.00 | The cor. of secs. 29, 30, 31 and 32. |
| | Land, rolling.<br>Soil, sandy silt.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scattered black brush, bitter brush, mountain rush and silver leaf. |

## General Description

Scattered over the rolling land of T. 39 S., R. 13 E. are a number of low mesas and buttes averaging 200 ft. higher than the surrounding general elevation of 5000 ft. above sea level. The lower elevations, around 200 ft. below the general elevation are found in the NW. portion of the township, while the highest elevation of 936 ft. above the general elevation is in sec. 25. The area of sec. 36 is cut by a fork of Mike's Canyon and is quite broken.

The soil is very low grade sandy silt, being near pure sand and produces a very thinly scattered growth of dwarf juniper and pinion with an undergrowth of black brush on the mesa tops and weeds on the lower land.

The south half of the township drains south to southwest by way of Castle Creek, while the north half drains north to northwest into Moki Canyon, which drains west to the Colorado River. Castle Creek enters the township at the east boundary approximately 20 chs. north of the northeast cor. of sec. 13, draining west and southwest to leave the township at the south boundary approximately 5 chs. west of the southwest cor. of sec. 34. The rest of the drainage system consists of small canyons and washes.

There is one good spring in sec. 36 and it is probable that there are intermittent seeps along the bottom of Castle Creek, but none were noted during this survey.

The township is traversed by one jeep road, which enters the township at the east boundary approximately 20 chs. north of the northeast cor. of sec. 13, bearing west and southwest to leave the township at the west boundary near the ¼ sec. cor. of secs. 19 and 24. There is one landing strip located in sec. 15.

In the last few years there has been some prospecting in the township, but during the survey there was no activity in the area. The only utilization of the land is in grazing of cattle, the number of which is very limited because of the sparse vegetation.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| John R. Koger | Principal Assistant |
| Gary W. Rutledge | Chainman |
| Ray D. Neilson | Flagman |
| Marcel D. Liston | Axeman |
| Richard J. Munson | Cornerman |

57

# CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May, 19[illegible] I have surveyed a portion of the subdivision, T. 39 S., R. 13 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah

March 10, 1958

Dell Cazier
Dell Cazier
Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—53565-8

(Feb., 1955)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Lacel Bland | Principal Assistant |
| Paul D. Hanson | Chainman |
| Peter K. Baily | Flagman |
| Milton H. Riddle | Axeman |
| Hyrum J. Davis | Cornerman |

16—53565-2

## CERTIFICATE OF CADASTRAL ENGINEER

I, Donald A. Cannon, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May, 1957 I have surveyed the north and east boundaries and a portion of the subdivision of T. 39 S., R. 13 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah

March 10, 1958

Donald A. Cannon
Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 13th day of May, I have ~~surveyed~~ supervised the survey of the north and east boundaries and a portion of the subdivision of T. 39 S., R. 13 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my directions~~ under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
March 10, 1958

Vern E. Lane
Cadastral Surveyor (Chief of Party)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
*Washington, D. C.,* SEP 30 1958, *19*

The foregoing field notes of the survey of north and east boundaries and a portion of the subdivision of T. 39 S., R. 13 E., SLM, Utah

executed ~~by~~ under the supervision of Vern E. Lane

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 39 S.~~ R. 13 E., Salt Lake Meridian ~~is a true~~ copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

ORIGINAL

261

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

of the

Survey of the North and West Boundaries

of

Section 36, Township 39 South, Range 14 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *19*55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *19*56

*Survey commenced* June 1, *19*56

*Survey completed* June 4, *19*56

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 14 East

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 1 2 36 |

16—56770-1

2478

T. 39 S., R. 14 E.

| Chains | |
|---|---|
| | The east boundary was surveyed by Robert C. Yundt in 1930 and its record appears in the official record of the survey of the range line between Rs. 14 and 15 E., T. 39 S. The south boundary was surveyed by R. C. Yundt and S. Smith in 1928 and its record appears in the official record of the survey of T. 40 S., R. 14 E. |
| | The following field notes are those of the north and west boundaries of sec. 36, T. 39 S., R. 14 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries. |
| | A record of the instruments, tests, adjustments and methods employed are recorded in the field notes of the survey of T. 39 S., R. 15 E. |
| | The directions of the lines of this survey were determined generally by sustained angulation carried forward from the hour angle observation on Polaris for meridian, which appears in the field notes of T. 39 S., R. 15 E.; being supplemented by other numerous Polaris observations for azimuth taken throughout the progress of the survey. |
| | Geographic position for the SE. cor. of sec. 36, T. 39 S., R. 14 E., is at latitude 37° 20' 45" N. and longitude 110° 18' 38" W., as determined by traverse from U. S. G. S. triangulation station "Rock", situated in the NW. portion of section 2, T. 37 S., R. 15 E. |
| | The magnetic declination was read at a number of stations throughout the section and the average of these readings was found to be 15° East. |
| | **West Boundary of Sec. 36, T. 39 S., R. 14 E.** |
| | Beginning at the cor. of secs. 1, 2, 35, and 36, on the south boundary, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | N. 0° 01' W., bet. secs 35 and 36. |
| | Over rolling land. |
| 6.20 | Bladed road, bears S. 50° W. and N. 50° E. |
| 24.10 | Leave rolling land; asc. 200 ft. over steep clay hills. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>¼<br>S35 \| S36<br>1956<br>No suitable accessories available. |
| 50.00 | Wash, near head, drains E.; asc. 120 ft. over steep S. slope. |
| 54.00 | Spur, sloping E.; asc. 480 ft. over broken ledges, facing SE. |

| Chains | |
|---|---|
| 68.50 | Wash, near head, drains SE. |
| 80.00 | True point for the cor. of secs. 25, 26, 35, and 36, falls in wash, 35 lks. wide, 10 ft. deep, drains SE., where the monument cannot be perpetuated. |
| | Land, S. ½ rolling land, N. ½ broken ledges, general S. to SE. drainage.<br>Soil, sandy, boulder strewn.<br>Timber, none; undergrowth, scattered black brush. |

North Boundary of Sec. 36, T. 39 S., R. 14 E.

| | |
|---|---|
| | Beginning at the cor. of secs. 25, 30, 31, and 36, on the east boundary of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | West, bet. secs. 25 and 36. |
| | Over rolling land. |
| 10.40 | Bladed road, bears N. 25° E. and S. 25° W. |
| 27.00 | Wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 39.95 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>¼ S 25 / S 36<br>1956<br>No suitable accessories available. |
| 50.00 | Spur, sloping SE.; desc. 80 ft. over SW. slope. |
| 55.50 | Wash, 30 lks. wide, 3 ft. deep, drains SE. irregularly from W. |
| 64.00 | Leave wash, draining E. from S. 75° W.; asc. 440 ft. over steep clay hills facing SE. |
| 73.20 | Wash, 30 lks. wide, 4 ft. deep, drains SE.; asc. steep E. to SE. slope. |
| 78.60 | Point selected for the witness cor. of secs. 25, 26, 35, and 36, on spur sloping SE. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T39S R14E<br>WC S26 S25 / S35 S36<br>1956<br>No suitable accessories available. |

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North Boundary of Sec. 36, T. 39 S., R. 14 E.

| Chains | |
|---|---|
| 79.90 | True point for the cor. of secs. 25, 26, 35, and 36.<br><br>Land, E. ½ rolling, W. ½ steep clay hills, general S. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush. |

General Description

The land of sec. 36, T. 39 S., R. 14 E., is rolling except the NW¼, which is broken ledges and steep clay hills. The elevation ranges from 4200 to 5000 ft. above sea level.

The soil is residual sandy and produces a scattered growth of black brush.

The main drainage is S. to the San Juan River.

The only sign of development is an access road, which enters the sec. at the N. boundary in the NE¼ and bears SW., leaving the sec. at the W. boundary in the SW¼. The main utilization of the land is in winter grazing of cattle.

| Chains | |
| --- | --- |

A-[illegible]
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Jim H. Tyer | Note-keeper |
| Maurice L. Hinton | Frontchainman |
| Dell (NMN) Cazier | Flagman |
| Darwin P. Russell | Cornerman |
| William E. Brickey | Axeman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13 day of May, 19[illegible] I have surveyed the north and west boundaries of sec. 36, Tp. 39 S., R. [illegible] East.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
January 4, 1957

Phil D. Smith
Phil D. Smith, Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
*Washington, D. C.,* JUL 23 1957, *19*

The foregoing field notes of the survey of the north and west boundaries of sec. 36, Tp. 39 S., R. 14 East, of the Salt Lake Meridian, Utah.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
*Cadastral Engineering Staff Officer.*

## ~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

4—STD
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY

OF

THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 39 SOUTH, RANGE 14 EAST

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Vern E. Lane - Cadastral Surveyor (Chief of Party)

Dell Cazier - Cadastral Surveyor

*Under special instructions dated* May 13, *19* 55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* July 9, *19* 57

*Survey commenced* August 7, *19* 57

*Survey completed* August 28, *19* 57

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 14 East

| | | | | | |
|---|---|---|---|---|---|
| 5<br>6 | 5<br>5 | 4<br>4 | 3<br>10 3 | 2<br>12 2 | 1<br>10 1 |
| 7 | 8 | 9 | 9 10 | 11<br>11 | 12 |
| 18 | 17 | 14<br>13 16 | 8 15 | 14 | 13 |
| 19 | 20 | 12<br>21 | 7 22 | 23 | 24 |
| 30 | 29 | 28 | 7 27 | 26 | 25 |
| 31 | 16<br>15 32 | 14 33 | 6 34 | 35 | 36 |

16—56770-1

2478

271

Township 39 South, Range 14 East

Chains

The east boundary was surveyed by R. C. Yundt and its record appears in the official record of the 1930 survey of the range line between Rs. 14 and 15 E., T. 39 S. The south boundary was surveyed by R.C. Yundt and E.S.C. Smith and its record appears in the official record of the 1928 survey of T. 40 S., R. 14 E. The west boundary was concurrently surveyed by D. A. Cannon, under Group 405, and its record appears in the field notes of the survey of T. 39 S., R. 13 E.

The following field notes are those of the survey of the north boundary and a portion of the subdivision of T. 39 S., R. 14 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered State school sections.

The survey was executed with a W. and L.E. Gurley transit, serial No. 541326, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record, the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U.S.G.S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The directions of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun, taken throughout the progress of the survey.

The geographic position for the SE. corner of the township is at latitude 37° 20' 44.632" N. and longitude 110° 18' 37.883" W., as adjusted from traverses to U.S.G.S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township, and the average of these readings was found to be 15° E.

North Boundary of T. 39 S., R. 14 E.

Beginning at the cor. of Ts. 38 and 39 S., Rs. 14 and 15 E., which is mkd. by an iron post, 3 ins. diam., firmly set, mkd. and witnessed as described in the official record of the 1930 survey of the range line bet. Rs. 14 and 15 E.

North Boundary of T. 39 S., R. 14 E.

| Chains | |
|---|---|
| | N. 89° 58' W., bet. secs. 1 and 36. |
| | Over broken canyon land, through scattered dwarf juniper and pinion. |
| | Desc. 120 ft. along NW. slope of spur, projecting W. |
| 16.90 | E. rim of Steer Pasture Canyon, bears NW. and S.20° W.; by triangulation desc. 360 ft. over broken SW. facing ledges. Distances to topography are approx. as sealed from U.S.G.S. topograhpic sheets. |
| 40.00 | True point for the ¼ sec. cor. of secs. 1 and 36 falls on the face of a ledge, 50 ft. high, bears NW. and SE., where it is impractical to set the monument. |
| 40.80 | Point selected for the witness ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

T38S R14E
¼ S36 → W
S 1 C
T39S
1957

| | |
|---|---|
| | Continue to desc. 280 ft. over nearly vertical SW. facing ledges. |
| 60.00 | Wash in the bottom of Steer Pasture Canyon, 1 ch. wide, 2 ft. deep, drains SW.; asc. 240 ft. along ledgy S. slope. |
| 80.00 | True point for the cor. of secs. 1, 2, 35 and 36 falls on the face of ledge, 80 ft. high, bears NE. and SW., where it is impractical to set the monument. |
| | Land, broken canyon land.<br>Soil, shallow sand, with exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 89° 58' W., bet. secs. 2 and 35. |
| | Asc. 85 ft. over broken ledges facing SE, on N. wall of canyon. |
| 2.00 | Point selected for the witness cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |

T38S R14E
S35 | S36 → W
S 2 | S 1 C
T39S
1957

| | |
|---|---|
| | End of triangulation; shelf on N. wall of Steer Pasture Canyon. |
| | Asc. 210 ft. over broken ledges, facing SE. |
| 17.00 | N. rim of Steer Pasture Canyon, bears NE. and SW.; asc. 10 ft. over SE. slope. |
| 20.00 | Spur, projects SW.; desc. 110 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |

North Boundary of T. 39 S., R. 14 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T38S R14E<br>¼ S35 / S 2<br>T39S<br>1957 |
| | Asc. 70 ft. over SE. slope. |
| 45.00 | Spur, projects SW.; desc. 30 ft. over NW. slope. |
| 52.80 | E. rim of canyon, bearing NE. and SW.; by triangulation desc. about 440 ft. over broken and precipitous ledges, facing NW. to W. |
| 64.50 | Wash, 50 lks. wide, 2 ft. deep, drains S.; asc. 400 ft. over E. facing ledges. |
| 76.00 | End of triangulation on W. rim of canyon, bearing N. and S.; asc. gradual E. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in sandstone outcrop, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T38S R14E<br>S34 \| S35<br>S 3 \| S 2<br>T39S<br>1957 |
| | Land, broken canyon land.<br>Soil, shallow sand, with large areas of exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 89° 58' W., bet. secs. 3 and 34. |
| | Over broken mesa top, through scattered dwarf juniper and pinion. |
| | Asc. 100 ft. over E. slope. |
| 5.30 | Spur, projects S.; desc. 110 ft. over W. slope. |
| 19.40 | Wash, near head, drains S.; asc. 80 ft. over SE. slope. |
| 23.00 | Spur, projects SW.; desc. 130 ft. over W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38S R14E<br>¼ S34 / S 3<br>T39S<br>1957 |
| 44.00 | Wash, 40 lks. wide, 2 ft. deep, drains S.; asc. 70 ft. over E. slope. |
| 62.00 | Saddle in spur, projecting SW. from NE.; desc. 20 ft. over gentle W. slope. |

| Chains | |
|---|---|
| 71.60 | Broken ledge, 15 ft. high, bears NE. and SW.; desc. 25 ft. over ledge and along N. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., in notch cut in sandstone, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T38S R14E<br>S33 \| S34<br>S 4 \| S 3<br>T39S<br>1957 |
| | Land, broken canyon land.<br>Soil, shallow sand, with exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 89° 58' W., bet. secs. 4 and 33. |
| | Over broken canyon land, through scattered dwarf juniper and pinion. |
| | Asc. 10 ft. over ledge, bears NW. on curve from S. 80° E. |
| 2.80 | Spur, sloping NW.; desc. 80 ft. over SW. slope. |
| 12.00 | Wash, 40 lks. wide, 2 ft. deep, drains N. 10° W.; asc. 120 ft. over NE. slope. |
| 17.70 | Spur, projecting N.; desc. 240 ft. over broken W. facing ledges. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T38S R14E<br>¼ S33<br>S 4<br>T39S<br>1957 |
| | Desc. 120 ft. over W. slope. |
| 50.00 | Slope changes; asc. 40 ft. over S. slope. |
| 55.00 | Spur, projects S. 30° W.; desc. 130 ft. over steep W. slope. |
| 68.00 | Wash, 50 lks. wide, 1 ft. deep, drains S. 20° W.; asc. 20 ft. over E. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T38S R14E<br>S32 \| S33<br>S 5 \| S 4<br>T39S<br>1957 |

| Chains | |
|---|---|
| | Land, broken canyon land.<br>Soil, sandy, with large areas of exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 89° 58' W., bet. secs. 5 and 32. |
| | Asc. 130 ft. over rolling SE. slope. |
| 25.00 | Wash, 20 lks. wide, 1 ft. deep, drains SE.; asc. 40 ft. |
| 27.00 | Land becomes broken; asc. 200 ft. over broken SE. facing ledges. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., in a notch cut in soft sandstone, and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T38S R14E<br>¼ S32 / S 5<br>T39S<br>1957 |
| | Continue to asc. 150 ft. over SE. slope. |
| 55.00 | Spur, sloping SW.; desc. 190 ft. over broken W. facing ledges. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., in a notch cut in soft sandstone, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T38S R14E<br>S31 \| S32<br>S 6 \| S 5<br>T39S<br>1957 |
| | Land, E. ½ rolling, W. ½ broken.<br>Soil, sandy, with large areas of exposed sandstone.<br>Timber, none on E. ½, scattered dwarf juniper and pinion on W. ½.<br>Undergrowth, dense growth of sunflowers on E. ½, scattered artemesia on W. ½. |
| | N. 89° 58' W., bet. secs. 6 and 31. |
| | Over broken canyon land, through scattered dwarf juniper and pinion. |
| | Desc. 30 ft. over steep W. slope. |
| 4.40 | Wash, 20 lks. wide, 2 ft. deep, drains S. 45° W.; asc. 180 ft. over broken SE. to E. facing ledges. |
| 22.00 | Spur, sloping SW.; desc. 280 ft. over broken NW. facing ledges. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |

North Boundary of T. 39 S., R. 14 E.

| Chains | |
|---|---|
| | T38S R14E<br>¼ S31<br>S 6<br>T39S<br>1957 |
| | Desc. 40 ft. over NW. slope. |
| 51.20 | By triangulation, over rolling land. Distances to topography are approx. as scaled from U.S.G.S. topographic sheets; desc. 80 ft. over NW. slope. |
| 63.50 | Wash, 30 lks. wide, 2 ft. deep, drains S. 45° W.; asc. 100 ft. over E. slope. |
| 78.37 | The cor. of Ts. 38 and 39 S., Rs. 13 and 14 E., which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the concurrent survey of the range line bet. Rs. 13 and 14 E., T. 39 S.<br><br>Land, E. ½ broken canyon land, W. ½ rolling.<br>Soil, E. ½ shallow sand, W. ½ deep sand.<br>Timber, scattered dwarf juniper and pinion on E. ½, none on W. ½.<br>Undergrowth, scattered artemesia. |

Portion of the Subdivision, T. 39 S., R. 12 E.

| | |
|---|---|
| | From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township, which is mkd. by an iron post, 2 in. diam., firmly set, mkd. and witnessed as described in the official record of the 1928 survey of T. 40 S., R. 14 E.<br><br>N. 0° 02' W., bet. secs. 33 and 34.<br><br>By triangulation; asc. about 800 ft. over steep sloping talus and precipitous S. facing ledges of Clay Hills Mesa. |
| 21.10 | Top of ledge, 300 ft. high, bears E. and W.; end of triangulation.<br><br>Thence over broken SE. facing ledges; asc. 160 ft. |
| 40.00 | Spur, sloping SW.<br><br>Point for the ¼ sec. cor. of secs. 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S33 S34<br>1957 |
| 45.00 | Desc. 160 ft. over broken NW. facing ledges. |
| 54.00 | Wash, near head, drains S. 50° W.; asc. 170 ft. over broken S. facing ledges. |
| 70.00 | Spur, sloping W.; desc. 40 ft. over gentle W. to NW. slope. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T39S R19E<br>S28 \| S27<br>S33 \| S34<br>1957<br><br>Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, thinly scattered juniper and pinion.<br>Undergrowth, black brush and cacti. |
| | N. 0° 02' W., bet. secs. 27 and 28.<br><br>Over broken land.<br><br>By triangulation cross East Fork of Mikes Canyon..<br><br>Desc. about 120 ft. over NW. facing ledges. |
| 16.00 | Rim of East Fork of Mikes Canyon, bears N. 30° E. and S. 30° W.; desc about 550 ft. over ledges facing NW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 27 and 28 falls in the bottom of East Fork, which drains SW., where the monument cannot be perpetuated.<br><br>Asc. about 600 ft. over S. facing ledges. |
| 51.90 | N. rim of East Fork, a ledge 250 ft. high, bears W. and NE.; end of triangulation.<br><br>Point selected for the witness ¼ sec. cor. of secs. 27 and 28.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R14E<br>¼<br>S28 \| S27<br>W C<br>1957<br><br>Asc. 150 ft. over S. slope of spur, sloping S. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R14E<br>S21 \| S22<br>S28 \| S27<br>1957<br><br>Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 0° 02' W., bet. secs. 21 and 22.<br><br>Over rough broken land, through scattered juniper and pinion.<br><br>Asc. 240 ft. over steep S to SE. slope. |

| Chains | |
|---|---|
| 32.00 | Spur ridge, projects W. from NE. for 2.00 chs., thence SW.; desc. 80 ft. over broken NE. facing ledges. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22 on S. rim of canyon. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S21 \| S22<br>1957 |
| | Thence by triangulation desc. about 280 ft. over precipitous NE. slope. |
| 59.00 | Wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. about 280 ft. over ledges facing SE. |
| 73.00 | End of triangulation on N. rim of canyon, bears E. and W.; asc. 80 ft. over S. slope. |
| 80.00 | Spur, sloping SW. |
| | Point for the cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R14E<br>S16 \| S15<br>S21 \| S22<br>1957 |
| | Land, broken.<br>Soil, shallow sand, with large areas of exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Desc. 50 ft. over broken canyon land, through thinly scattered dwarf juniper and pinion. |
| 16.00 | Wash, near head, drains SW.; asc. 50 ft. over SE. slope. |
| 22.00 | Top of ascent, bears E. and W.; desc. 220 ft. along spur, projecting N. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S16 \| S15<br>1957 |
| | By triangulation desc. about 500 ft. over broken N. facing ledges. |
| 67.00 | Wash, 30 lks. wide, 2 ft. deep, drains NW.; asc. 250 ft. over broken SW. facing ledges. |
| 79.50 | Point selected for the witness cor. of secs. 9, 10, 15 and 16. |

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| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R14E.<br>W C<br>S 9 \| S10<br>S16 \| S15<br>1957 |
| 80.00 | True point for the cor. of secs. 9, 10, 15 and 16, falls on steep S. sloping slick rock, where it is impractical to set the monument.<br><br>Land, broken canyon land.<br>Soil, shaoow sand, with large areas of exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | N. 0° 02' W., bet. secs. 9 and 10.<br><br>Over broken canyon land, through thinly scattered dwarf juniper and pinion.<br><br>Asc. about 130 ft. over steep S. slope. |
| 11.00 | Spur, sloping NW.; desc. 400 ft. over broken NE. facing ledges. |
| 26.50 | Wash, 30 lks. wide, 2 ft. deep, drains W.; asc. about 240 ft. over S. facing broken ledges. |
| 36.00 | S. edge of sandstone knob. |
| 39.00 | End of triangulation; knob on top of spur, bears E. and W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10, on top of sandstone knob.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R14E<br>¼<br>S 9 \| S10<br>1957<br><br>By triangulation desc. about 200 ft. over broken N. facing ledges. |
| 49.00 | Castle Creek Wash, 2.00 chs. wide, 2 ft. deep, drains generally NW.; bulldozed road follows creek bottom.<br><br>Asc. 350 ft. over broken and nearly vertical SE. facing ledges. |
| 72.90 | End of triangulation on spur, sloping S. 30° W. from N.; asc. 20 ft. along spur. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R14E<br>S 4 \| S 3<br>S 9 \| S10<br>1957<br><br>Land, broken canyon land.<br>Soil, shallow sand, with ledges and exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |

| Chains | |
|---|---|
| | N. 0° 14' W., bet. secs. 3 and 4. |
| | Asc. 180 ft. over S. slope of mesa top, through scattered dwarf juniper and pinion. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T39S R14E<br>¼<br>S 4 \| S 3<br>1957 |
| | Deposit a sandstone, 6x6x3 ins., alongside the post. |
| | Asc. 150 ft. over S. slope. |
| 70.80 | Top of ascent; desc. 110 ft. over steep N. slope. |
| 79.93 | The cor. of secs. 3, 4, 33 and 34. |
| | Land, broken canyon land.<br>Soil, sandy, with exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | From the true point for the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 1 and 2. |
| | By triangulation desc. about 240 ft. over nearly vertical SE. facing ledges. |
| 7.00 | Wash in bottom of Steer Pasture Canyon, 20 lks. wide, 2 ft. deep, drains SW.; asc. 360 ft. over nearly vertical NW. facing ledges. |
| 28.25 | S. rim of Steer Pasture Canyon; asc. 30 ft. along NW. slope of spur; end of triangulation. |
| 39.97 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S 2 \| S 1<br>1957 |
| 41.00 | Top of spur, sloping SW.; desc. 30 ft. over SW. slope. |
| 42.80 | Wash, near head, drains SW.; continue to desc. 290 ft. over broken SW. facing ledges. |
| 65.00 | Bulldozed road in wash in the bottom of Castle Creek, 1.50 chs. wide, 2 ft. deep, drains W.; asc. gradually over broken N. slope. |
| 78.00 | Foot of broken sandstone ledge, bears NE. and SW.; asc. 150 ft. |
| 79.97 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |

Chains

T39S R14E
S 2 | S 1
S11 | S12
1957

Land, broken canyon land.
Soil, shallow sand, with exposed sandstone.
Timber, thinly scattered dwarf juniper and pinion.
Undergrowth, scattered artemesia.

N. 89° 57' W., bet. secs. 2 and 11 on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12 on the E. bdy., and the cor. of secs. 3, 4, 9 and 10, as specified in the special instructions.

Over series of sandstone spurs, sloping NE.

By triangulation desc. about 150 ft. over steep W. slope.

5.30 Wash, 20 lks. wide, 1 ft. deep, drains N.; asc. about 200 ft. over broken E. facing ledges.

21.25 End of triangulation on spur, sloping N. 20° E.; desc. 30 ft. over NW. slope.

32.00 Wash, 20 lks. wide, 1 ft. deep, drains N. 20° E.; asc. 70 ft. over E. slope.

40.00 Point for the ¼ sec. cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., in a notch cut in soft sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.

T39S R14E
¼ S 2
S11
1957

Cor. falls on the N. side of boulder, 4 ft. in diam.

42.00 Spur, sloping NE.; desc. 25 ft. over steep NW. slope.

46.00 End of descent in swale; asc. 280 ft. over NE. facing ledges.

55.00 E. rim of mesa, bears SE. and NW.; thence over nearly level mesa top.

65.00 W. rim of mesa; desc. 200 ft. along S. side of spur, projecting N. 70° W.

80.00 Point for the cor. of secs. 2, 3, 10 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., in a notch cut in soft sandstone, and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T39S R14E
S 3 | S 2
S10 | S11
1957

Land, broken canyon land.
Soil, pockets of sand, with exposed sandstone over most of the area.
Timber, thinly scattered dwarf juniper and pinion.
Undergrowth, scattered artemesia.

| Chains | |
|---|---|
| | North, bet. secs. 2 and 3. |
| | Over broken land, through scattered juniper and pinion. |
| | By triangulation desc. about 70 ft. over NW. sloping slick rock. |
| 5.00 | Swale, drains W.; asc. about 20 ft. over SW. slope. |
| 10.00 | Spur, sloping W.; desc. about 360 ft. over steep NW. sloping slick rock. |
| 27.00 | Wash in bottom of Castle Creek Canyon, 30 lks. wide, 2 ft. deep, drains S. 70° W.; thence over nearly level stream valley. |
| 29.00 | Jeep road, bears S. 65° W. and N. 65° E. |
| 35.00 | Wash, drains SW., about 7 chs. to junction with Castle Creek Wash. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T39S R14E<br>¼<br>S 3 \| S 2<br>1957 |
| | Raise a mound of stone, 2 ft. base, 18 ins. high, W. of cor. |
| 41.00 | Recross wash, drains S. 10° E. from NE. |
| 43.00 | Leave stream valley; asc. about 400 ft. over broken SE. facing ledges. |
| 64.00 | Canyon rim, bears SW. and N. 10° E.; continue to asc. 80 ft. over broken SE. facing ledges. |
| 79.95 | The cor. of secs. 2, 3, 34 and 35 on the N. bdy.; end of triangulation. |
| | Land, broken canyon land.<br>Soil; shallow sandy silt, with large areas of exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scattered black brush, bitter brush, silverleaf, grama grass and cacti. |

| | |
|---|---|
| | From the cor. of secs. 15, 16, 21 and 22. |
| | N. 89° 59' W., bet. secs. 16 and 21. |
| | By triangulation over broken canyon land. |
| | Desc. about 320 ft. over broken W. facing ledges. |
| 15.60 | Wash, near head, drains SW.; asc. about 440 ft. over SE. sloping slick rock. |
| 35.50 | End of triangulation on spur, projecting S. 30° W.; desc. 160 ft. over steep SW. sloping slick rock. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T39S R14E<br>¼ S16<br>S21<br>1957 |
| | Desc. 110 ft. over steep W. sloping slick rock. |
| 48.00 | Wash, 20 lks. wide, 1 ft. deep, drains S. 40° W.; asc. 20 ft. over E. slope. |
| 53.00 | Spur, sloping SW.; desc. 60 ft. over W. slope. |
| 58.50 | Wash, 50 lks. wide, 2 ft. deep, drains S. 20° W.; asc. 60 ft. over E. sloping slick rock. |
| 74.00 | Spur, sloping S.; desc. 70 ft. over SW. sloping slick rock. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and suppoted in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>S17 \| S16<br>S20 \| S21<br>1957 |
| | Land, broken canyon land.<br>Soil, shallow sand, with exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | From the cor. of secs. 16, 17, 20 and 21. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over broken canyon land, through thinly scattered juniper and pinion. |
| | Asc. 70 ft. over S. sloping slick rock. |
| 5.20 | Ridge, bears NW., 3.00 chs.; thence SW. and SE.; by triangulation desc. about 760 ft. abruptly over N. facing ledges. Distances to topography are approx. as scaled from U.S.G.S. topographic sheets. |
| 27.00 | Wash, drains NW.; asc. about 320 ft. over SW. facing ledges. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S17 \| S16<br>1957 |
| | Asc. about 90 ft. over SW. facing broken ledges. |
| 44.55 | End of triangulation, on spur, projecting W.; asc. 10 ft. along W. side of mesa. |
| 59.40 | Top of ascent, bears E. and W.; desc. 50 ft. along W. side of mesa. |
| 74.90 | Spur on S. rim of canyon, projects NW.; desc. 80 ft. over broken NW. facing ledges. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R14E<br>S 8 \| S 9<br>S17 \| S16<br>1957<br><br>Land, broken canyon land.<br>Soil, shallow sand, with exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered black brush, bitter brush and cacti. |
| | From the true point for the cor. of secs. 9, 10, 15 and 16.<br><br>N. 89° 59' W., bet. secs. 9 and 16.<br><br>Over broken canyon land.<br><br>By triangulation desc. about 320 ft. over steep SW. sloping slick rock. Distances to topography are approx. as scaled from U.S.G.S. topographic sheets. |
| 20.00 | Wash, 20 lks. wide, 1 ft. deep, drains N. 10° W.; asc. about 160 ft. over steep E. sloping slick rock. |
| 40.06 | Point for the ¼ sec. cor. of secs. 9 and 16.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R14E<br>¼ S 9<br>S16<br>1957<br><br>Asc. about 120 ft. over broken E. facing ledges. |
| 48.00 | Spur, projecting N. 20° E.; desc. about 160 ft. over NW. facing broken ledges. |
| 58.00 | Wash, near head, drains NW.; asc. about 200 ft. over NE. facing ledges. |
| 75.00 | End of triangulation on spur, projecting N.; desc. 80 ft. over broken NW. facing ledges. |
| 80.12 | The cor. of secs. 8, 9, 16 and 17.<br><br>Land, broken canyon land.<br>Soil, shallow sand, with exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.<br><br>N. 0° 03' W.; bet. secs. 32 and 33.<br><br>Over steep boulder strewn SE. sloping talus.<br><br>By triangulation asc. about 480 ft. over SE. sloping talus. Distance to topography are approx. as scaled from U.S.G.S. topographic sheets. |

Portion of the Subdivision, T. 39 S., R. 14 E.

| Chains | |
|---|---|
| 1.50 | Wash, 30 lks. wide, 2 ft. deep, drains SW. into E. Fork of Mikes Canyon. |
| 40.00 | True point for the ¼ sec. cor. of secs. 31 and 32 falls near the top of a steep, boulder strewn talus slope, where the monument cannot be perpetuated. |
| 43.00 | Base of nearly vertical ledge; asc. about 600 ft. over same. |
| 47.00 | End of triangulation on mesa rim, bears SW. and NE. |
| 47.20 | Point selected for the witness ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S32 \| S33<br>W C<br>1957 |
| | Over nearly level top of mesa. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd. |
| | T39S R14E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Deposit a sandstone, 6x10x2 ins., mkd. with a cross (X) alongside the post. |
| | Land, S. ½ steep, boulder strewn talus; N. ½ rolling mesa top.<br>Soil, S. ½ boulder strewn sand; N. ½ deep sand.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |
| | From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Over nearly level mesa top, through thinly scattered dwarf juniper and pinion. |
| 12.90 | N. rim of mesa, bears E. and NW.; by triangulation desc. about 250 ft. over N. facing broken ledges. Distances to topography are approx. as scaled from U.S.G.S. topographic sheets. |
| 19.40 | Wash, near head, drains NW.; asc. 80 ft. over SW. slope. |
| 31.85 | Spur, sloping S. 75° W.; desc. 40 ft. over NW. slope. |
| 35.00 | Wash, near head, drains SW.; asc. 60 ft. over S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R14E<br>¼<br>S31 \| S32<br>1957 |

| Chains | |
|---|---|
| | Continue to asc. 30 ft. over S. slope. |
| 42.00 | Spur, sloping W. from NE.; desc. about 560 ft. over NW. facing ledges. |
| 55.00 | Wash, in the bottom of Mikes Canyon, 30 lks. wide, 2 ft. deep, drains S. 45° W.; asc. 600 ft. over nearly vertical SE. facing ledges. |
| 67.00 | End of triangulation on N. rim of Mikes Canyon; asc. 70 ft. along W. side of spur, sloping S. |
| 80.00 | Point for the cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., in a notch cut in soft sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T39S R14E<br>S30 \| S29<br>S31 \| S32<br>1957 |
| | Land, broken canyon land.<br>Soil, shallow sand, with barren sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered black brush, cacti, silverleaf and Brigham Tea. |
| | From the cor. of secs. 28, 29, 32 and 33. |
| | N. 89° 56' W., bet. secs. 29 and 32. |
| | From top of ridge, bearing N. and S. |
| | Over nearly level mesa top; desc. 80 ft. over gentle SW. slope. |
| 12.00 | W. rim of mesa; desc. 480 ft. along the N. side of spur, sloping W., over NW. facing broken ledges. |
| 39.95 | True point for the ¼ sec. cor. of secs. 29 and 32 falls on vertical ledge, 40 ft. high, bears SW. and NE., where it is impractical to set the monument. |
| | Thence S., 2.70 chs. dist. |
| | Point selected for the witness ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., in a notch cut in soft sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>W C<br>T39S R14E<br>¼ S29<br>S32<br>1957 |
| | The witness cor. is 2.35 chs. N. of the crest of spur, sloping S. 70° W., and 85 ft. below crest. |
| | From the true point for the ¼ sec. cor. of secs. 29 and 32; desc. abruptly 120 ft. over NW. facing ledges, continuous measurement. |
| 40.50 | Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. about 280 ft. over precipitous SE. facing ledges. |
| 54.00 | Spur, sloping SW.; desc. 440 ft. over nearly vertical W. facing ledges. |

| Chains | |
|---|---|
| 78.80 | Wash in Mikes Canyon, 20 lks. wide, 2 ft. deep, drains SW.; asc. about 320 ft. over nearly vertical E. facing ledges. |
| 78.00 | Spur, sloping N.; desc. 50 ft. over steep W. slope. End of triangulation. |
| 79.90 | The cor. of secs. 29, 30, 31 and 32.<br><br>Land, broken canyon land.<br>Soil, shallow sand, with exposed sandstone.<br>Timber, thinly scattered dwarf juniper and pinion.<br>Undergrowth, scattered artemesia. |

## GENERAL DESCRIPTION

T. 39 S., R. 14 E. lies on the back slope of a deeply eroded cuesta. The many canyons throughout the township attain a maximum depth of 1000 ft. and are rimmed with inaccessible walls throughout most of their lengths. The erosional scarp, with a vertical ledge approx. 400 ft. high, known as Clay Hills, enters the township approx. 10 chs. S. of the ¼ sec. cor. of secs. 1 and 6 on the E. bdy., bearing W. approx. 50 chs., where it then curves SE. approx. 50 chs. to the E. bdy., thus forming a cove. The scarp again enters the township, after forming a short spur projecting NE., outside of the township on the E. bdy. approx. 5 chs. N. of the NE. corner of sec. 13, bearing SW. to leave the township in the form of a finger mesa at the S. bdy. near the ¼ sec. cor. of secs. 4 and 33. The general elevation of the township ranges from 5800 to 6000 ft. above sea level; the minimum elevation of 4600 ft. is along the bottom of Mikes Canyon in the SW. portion of the township, and the maximum, a sandstone butte located in sec. 12, is 6580 ft. above sea level.

The main drainage of the township is W. and SW. by way of Mikes Canyon, Castle Creek and their tributaries. The East Fork of Mikes Canyon heads in the area of sec. 23, draining SW. to leave the township near the NW. cor. of sec. 4. Mikes Canyon heads along the S. bdy. of sec. 16, draining SW. to leave the township approx. 20 chs. E. of the SW. cor. of the township. Castle Creek heads along the S. bdy. of sec. 1, draining W. to leave the township at the W. bdy. approx. 20 chs. N. of the NW. cor. of sec. 18. Steer Pasture Canyon enters the township at the N. bdy. approx. 20 chs. E. of the NW. cor. of sec. 1, draining SW. approx. 1 mile to drain into Castle Creek.

The soil is principally a shallow residual sandy silt, with large areas of exposed sandstone. The vegetational cover consists of scattered dwarf juniper and pinion with an undergrowth of moderate black brush, bitter brush, mountain rush, silverleaf, grama grass and weeds.

There are two roads in the township. The first, a jeep road, enters the township at the E. bdy. near the SE. cor. of sec. 1, bearing W. following Castle Creek across the township. The other road, a graded dirt road, enters the township at the E. bdy. approx. 5 chs. N. of the NE. cor. of sec. 36, bearing SW. to leave the township at the S. bdy. approx. 5 chs. W. of the SW. cor. of sec. 36.

There are three permanent springs along the bottom of Castle Creek. Irish Green Spring located in sec. 2, Green Water Spring located in sec. 10, and one more in sec. 9. There were also several intermittent seeps noted further W. along Castle Creek. No other water was noted during the progress of this survey, but it is probable that there are other intermittent seeps along the bottom of some of the other deeper canyons.

| Chains | | Chains |
|---|---|---|
| | The only activity noted during the survey was sporadic prospecting along the lower reaches of Mikes Canyon, but there are no producing mines or patented claims. Because of the difficulty of access, only the NW. portion of the township has been utilized for the grazing of cattle. The remainder of the township appears to have been untouched. | |

4-680
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| John R. Koger | Principal Assistant |
| Gary W. Rutledge | Chainman |
| Ray D. Nielson | Flagman |
| Murcel D. Liston | Axeman |
| Douglas Monson | Cornerman |
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10—53565-2

## CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May 1955, I have surveyed the north boundary and a portion of the subdivision of Township 39 South, Range 14 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

March 4, 1958

Salt Lake City, Utah

Dell Cazier

Dell Cazier - Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-2

## CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May, 1955, I have ~~surveyed~~ supervised the survey of the north boundary and a portion of the subdivision of Township 39 South, Range 14 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

March 4, 1958

Salt Lake City, Utah

Vern E. Lane

Vern E. Lane - Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* SEP 30 1958, *19*

The foregoing field notes of the survey of the north boundary and a portion of the subdivision of Township 39 South, Range 14 East, Salt Lake Meridian, Utah

executed by Dell Cazier, under the supervision of Vern E. Lane

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~

~~, is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

of the

Survey of the North Boundary

and a

Portion of the Subdivision

of

Township 39 South, Range 15 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *19* 55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* May 21, *19* 56

*Survey commenced* June 4, *19* 56

*Survey completed* June 29, *19* 56

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 15 East

| | | | | | |
|---|---|---|---|---|---|
| 6 6 | 5 5 | 4 4 | 3 12 3 15 | 3 14 2 15 | 2 13 1 13 |
| 7 | 8 | 9 | 11 10 | 11 | 12 |
| 18 | 17 | 17 16 16 | 10 15 | 14 | 13 |
| 19 | 20 | 21 | 10 22 | 23 | 24 |
| 30 | 29 | 28 | 9 27 | 26 | 25 |
| 21 31 20 | 20 32 18 | 19 33 | 8 34 | 35 | 8 7 36 |

16—56770-1

240

T. 39 S., R. 15 E.

Chains

The south boundary of T. 39 S., R. 15 E., was surveyed by C. F. Moore in 1927, and its record appears in the field notes of T. 40 S., R. 15 E. The west boundary was surveyed by Robert C. Yundt in 1930, and its record appears in the field notes of the range line between Rs. 15 and 16 E., in T. 39 S. The east boundary was surveyed concurrently under this same group and the record appears in the field notes of T. 39 S., R. 16 E.

The following field notes are those of the survey of the north boundary and a portion of the subdivision of T. 39 S., R. 15 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered State school sections.

This survey was executed with a W. and L. E. Gurley transit, serial number 541329, equipped with an improved telescopic solar attachment, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good adjustment prior to the survey and was maintained in proper adjustment throughout the progress of the survey.

The directions of the lines of survey were determined generally by sustained angulation carried forward from the following hour angle observation on Polaris for meridian, supplemented by other numerous Polaris observations for azimuth taken throughout the progress of the survey. The solar attachment was not used.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true methods, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions all subdivisional corners established are calculated to be at the positions they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links, and thereafter at intervals of 10 links. The tape was tested by comparison with a 1-chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show the horizontal equivalent only. All lines of this survey were run by direct method where the lines were accessible, lines inaccessible to chaining were run by traverse or triangulation methods. The details of such traverse or triangulation have been thoroughly checked and verified and in order to simplify the record, the diagrams and reductions are omitted from these field notes.

The geographic position for the southeast corner of this township is latitude 37° 20' 45" N. and longitude 110° 12' 07" W., as determined by traverse from U. S. G. S. triangulation station "Rock", situated in the northwest portion of section 2, T. 37 S., R. 15 E.

June 13, 1956, at the corner of Ts. 38 and 39 S., Rs. 15 and 16 E., at latitude 37° 25' 58" N. and longitude 110° 12' 07" W., at 7h 10m 13s a.m., l.m.t., I make a hour angle observation of Polaris, east of the meridian, making two observations each with the telescope in direct and reversed position, reading the horizontal angle from a flag set approximately 15 chains west, with the following results:

| Chains | |
|---|---|
| | Mean horizontal angle, flag to Polaris 90°23'08"<br>Azimuth of Polaris, east of the meridian 0°23'08"<br>True bearing to flag West |
| | The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° E. |
| | **North Boundary of T. 39 S., R. 15 E.** |
| | Beginning at the cor. of Ts. 38 and 39 S., Rs. 15 and 16 E., which is marked by an iron post, 2½ ins. diam., firmly set, marked and witnessed as described in the field notes of the survey of the west boundary of T. 39 S., R. 16 E., this group. |
| | S. 89° 53' W., bet. secs. 1 and 36. |
| | Over rolling land, through thinly scattered juniper; desc. 30 ft. to ¼ sec. cor. over a general S. slope. |
| 2.00 | Head of wash, drains SW. |
| 15.30 | Low spur, sloping SW. |
| 29.00 | Wash, 30 lks. wide, 2 ft. deep, drains S. |
| 35.45 | Low spur, sloping S. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>¼ S 36 / S 1<br>1956 |
| | No suitable accessories available. |
| 50.40 | Graded dirt road, bears N. 30° E. and S. 30° W. |
| 65.70 | Wash, 80 lks. wide, 2 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 1, 2, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>T38S R15E<br>S35 \| S36<br>S2 \| S1<br>T39S<br>1956 |
| | No suitable accessories available. |
| | Land, rolling.<br>Soil, sandy.<br>Timber, thinly scattered juniper; undergrowth, moderate black brush and cacti. |

North Boundary of T. 39 S., R. 15 E.

| Chains | |
|---|---|
| | S. 89° 53' W., bet. secs. 2 and 35. |
| | Over rolling land; desc. 15 ft. over general S. slope. |
| 17.90 | Wash, 20 lks. wide, 3 ft. deep, drains S. |
| 24.40 | Wash, 15 lks. wide, 2 ft. deep, drains SE. |
| | Thence by triangulation. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 35, falls on thin clay spur, projecting E., where it is impractical to set the monument. |
| 43.50 | Base of vertical ledge, 200 ft. high, facing E., bears N. and S. |
| 47.50 | Lower rim of clay hills, bears N. and S., 405 ft. above sec. cor. |
| 47.70 | Point selected for the witness ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼ S 35 / S 2 → WC<br>1956 |
| | No suitable accessories available. |
| | Thence by chaining; desc. 65 ft. over SW. slope. |
| 54.00 | Lower rim of clay hills, with vertical ledge, 200 ft. high, facing SW., bears NW. and SE. |
| | Thence by triangulation. |
| 63.80 | Lower rim of clay hills, with vertical ledge, 200 ft. high, facing E., bears N. and S. |
| | Thence by chaining; asc. 70 ft. over E. slope. |
| 72.00 | Point of double spurs, sloping SE. and SW.; desc. 35 ft. over NW. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34, and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked |
| | T38S R15E<br>S34 \| S35<br>S3 \| S2<br>T39S<br>1956 |
| | No suitable accessories available. |
| | Land, rolling to broken.<br>Soil, sandy with some sandstone outcrops.<br>Timber, none; undergrowth, moderate black brush, some cacti. |
| | S. 89° 53' W., bet. secs. 3 and 34. |
| | Over rough broken land. |

| Chains | |
|---|---|
| | By triangulation, desc. 90 ft. over SW. slope. |
| 15.40 | Lower rim of clay hills, bears S. to SE. and SW., at head of wash, drains SW. |
| 26.90 | Lower rim of clay hills, with broken nearly vertical ledge, 200 ft. high, bears N. and SE. |
| 29.00 | Base of ledge, facing W., bears N. and SE. |
| 34.45 | Wash channel, drains S.; asc. 85 ft. over sharp E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>¼ S 34 / S 3<br>1956<br>No suitable accessories available. |
| | Thence by chaining; asc. 300 ft. to sec. cor. |
| 44.00 | Wash, 50 lks. wide, 3 ft. deep, drains SE. |
| 51.00 | Spur, sloping S. |
| 58.95 | Head of wash, drains SE., on lower rim of clay hills, with nearly vertical ledge, 200 ft. high, bears SE. and NW. |
| 66.15 | Spur, sloping SE. |
| 68.85 | Wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 77.70 | Point selected for the witness cor. of secs. 3, 4, 33, and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>T38S R15E<br>S33 \| S34<br>WC S4 \| S3<br>T39S<br>1956<br>No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 3, 4, 33, and 34, falls on nearly vertical ledge, 50 ft. high, facing S., which bears NW. and SE., where the monument cannot be perpetuated.<br><br>Land, broken to rolling.<br>Soil, clay loam.<br>Timber, none; undergrowth, none. |

S. 89° 53' W., bet. secs. 4 and 33.

Over broken land, with numerous spurs and washes sloping and draining SE.; asc. 40 ft. to ¼ sec. cor.

| Chains | |
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| 20.30 | Spur, sloping SE.; desc. SW. slope. |
| 30.25 | Wash, 40 lks. wide, 4 ft. deep, drains S.; asc. E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked. |
| | ¼ S 33 / S 4 1956 |
| | No suitable accessories available. |
| | Asc. 150 ft. to sec. cor. |
| 42.70 | Spur, sloping SE.; desc. 70 ft. over SW. slope. |
| 44.00 | Wash, 15 lks. wide, 2 ft. deep, drains SE.; asc. SE. slope. |
| 68.00 | Spur, sloping SE.; thence over nearly level land, slight S. drainage. |
| 80.00 | Point for the cor. of secs. 4, 5, 32, and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T38S R15E<br>S32 \| S33<br>S5 \| S4<br>T39S<br>1956 |
| | No suitable accessories available. |
| | Land, broken.<br>Soil, clay loam.<br>Timber, none; undergrowth, none. |
| | S. 89° 53' W., bet. secs. 5 and 32. |
| | Over rough broken land. |
| | By triangulation. |
| 24.95 | Wash, 70 lks. wide, 5 ft. deep, drains SE. |
| 31.60 | Ledge, 30 ft. high, facing E., bears N. and S. |
| 40.00 | True point for the ¼ sec. cor. of secs. 5 and 32, falls on ledge, 10 ft. high, facing NE., bears NW. and SE., where it is impractical to set the monument. |
| 41.80 | Point selected for the witness ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |

| Chains | |
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| | ¼ S 32 / S 5 → WC<br>1956 |
| | No suitable accessories available. |
| 51.60 | Base of vertical ledge, 400 ft. high, facing SE., bears NE. and SW. |
| 60.50 | Upper rim of clay hills, bears NE. and SW.; asc. 150 ft. over NE. slope of S. portion of cove. |
| 77.00 | Top of ascent on rim of cove, bears N. to NE. and SE. |
| | Thence by chaining. |
| 80.00 | Point for the cor. of secs. 5, 6, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T38S R15E<br>S31 \| S32<br>S6 \| S5<br>T39S<br>1956 |
| | No suitable accessories available. |
| | Land, rough and broken, general SE. drainage.<br>Soil, clay loam.<br>Timber, none; undergrowth, none. |
| | S. 89° 53' W., bet. secs. 6 and 31. |
| | Over rolling land through a moderate growth of juniper timber, general S. slope; asc. 70 ft. over slight S. slope to ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼ S 31 / S 6<br>1956 |
| | No suitable accessories available. |
| | Continue to asc. 160 ft. over general S. slope. |
| 47.00 | Isolated Butte. |
| 55.50 | Sandstone spur, sloping SW.; desc. 200 ft. over NW. slope. |
| 58.90 | Wash, 10 lks. wide, 2 ft. deep, drains SW.; asc. 50 ft. over SE. slope. |
| 74.10 | Rocky spur, sloping SE.; desc. 40 ft. over NW. slope. |

| Chains | |
|---|---|
| 78.10 | The cor. of Ts. 38 and 39 S., Rs. 14 and 15 E., which is marked by an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the official record.<br><br>Land, rolling, general S. drainage.<br>Soil, sandy loam.<br>Timber, moderate juniper; undergrowth, moderate black brush. |

Portion of the Subdivision of T. 39 S., R. 15 E.

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|---|---|
| | From the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record.<br><br>N. 0° 01' W., bet. secs. 35 and 36.<br><br>Over rolling land.<br><br>Asc. 35 ft. over general S. slope. |
| 11.20 | Low spur, sloping W.; desc. 20 ft. over NW. slope. |
| 32.10 | Wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 40 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br><br>¼<br>S35 \| S36<br>1956 |
| 45.00 | Low spur, sloping SW.; desc. 20 ft. over NW. slope. |
| 61.30 | Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. 20 ft. over SE. slope. |
| 67.00 | Low spur, sloping SW.; desc. 25 ft. over general W. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35, and 36.<br><br>Set an iron post, 30 ins. long, 1 in. diam., 10 ins. in a drill-hole in solid sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T39S R15E<br>S26 \| S25<br>S35 \| S36<br>1956 |

No suitable accessories available.

Land, rolling general SW. drainage.
Soil, sandy.
Timber, thinly scattered pinon; undergrowth, moderate to scattered black brush and cacti.

| Chains | |
|---|---|
| | From the cor. of secs. 25, 30, 31, and 36, on the E. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | S. 89° 51' W., bet. secs. 25 and 36. |
| | Over rolling land. |
| | Desc. 90 ft. over general SW. slope. |
| 30.00 | Wash, drains SSW. |
| 39.97 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>¼ S 25 / S 36<br>1956<br>No suitable accessories available. |
| | Continue to desc. 150 ft. over a general SW. slope to sec. cor. |
| 60.00 | Slope changes to W. |
| 79.94 | The cor. of secs. 25, 26, 35, and 36. |
| | Land, rolling, general SW. to W. slope and drainage.<br>Soil, sandy.<br>Timber, scattered pinon; undergrowth, scattered black brush. |
| | From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Over rolling land; desc. 70 ft. over general NW. slope. |
| 39.00 | Left bank of wash, with vertical ledge 90 ft. high, facing NW., bears NE. and SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 33 and 34, falls in wash channel, drains SW., where it is impractical to set the monument. |
| 41.20 | Right bank of wash, with vertical ledge 45 ft. high, facing SE., bears NE. and SW. |
| 48.50 | Point selected for the witness ¼ sec. cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S33 & S34<br>W.C.<br>1956<br>No suitable accessories available. |

| Chains | |
|---|---|
| | Continue to desc. 65 ft. over a general NW. slope. |
| 55.75 | Low sandstone spur, sloping SW. |
| 79.00 | Wash, 40 lks. wide, 3 ft. deep, drains SW. to W. from NE. |
| 80.00 | Point for the cor. of secs. 27, 28, 33, and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T39S R15E<br>S28 \| S27<br>S33 \| S34<br>1956<br>No suitable accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy with some sandstone outcrops.<br>Timber, none; undergrowth, scattered black brush, some cacti. |
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Over rolling sandy land. |
| | Asc. 60 ft. over sandy S. slope. |
| 20.35 | Low sandy spur, sloping SW.; desc. 20 ft. over sandy NW. slope. |
| 31.35 | Wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 20 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S28 \| S27<br>1956<br>No suitable accessories available. |
| | Continue to ascend 30 ft. over sandy SE. slope. |
| 61.00 | Sandy spur, sloping SW.; desc. 15 ft. over NW. slope. |
| 76.00 | Wash, 100 lks. wide, 6 ft. deep, drains SW. |
| 80.00 | Point for the cor. of secs. 21, 22, 27, and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T39S R15E<br>S21 \| S22<br>S28 \| S27<br>1956 |

| Chains | |
|---|---|
| | No suitable accessories available.<br><br>Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | N. 0° 02' W., bet. secs. 21 and 22.<br><br>Over rolling sandy land.<br><br>Asc. 50 ft. over a general S. slope. |
| 11.10 | Low flat top spur, sloping SW.; desc. 60 ft. over a general NW. slope. |
| 29.45 | Wash, 100 lks. wide, 5 ft. deep, drains SW.; asc. 20 ft. over a general SW. slope. |
| 31.00 | Rut road, bears N. 30° E. and S. 35° W. |
| 39.35 | Wash, 80 lks. wide, 3 ft. deep, drains SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 21 and 22, falls in a wash, where it is impractical to set the monument. |
| 42.00 | Point selected for the witness ¼ sec. cor. of secs. 21 and 22.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>¼<br>S21 ↓ S22<br>W C<br>1956<br><br>No suitable accessories available.<br><br>Asc. 65 ft. over a general S. slope to sec. cor. |
| 69.20 | Wash, 20 lks. wide, 3 ft. deep, drains SE. |
| 80.00 | Point for the cor. of secs. 15, 16, 21, and 22.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T39S R15E<br>S16 \| S15<br>S21 \| S22<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling, general S. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush, some cacti. |
| | N. 0° 02' W., bet. secs. 15 and 16. |

Portion of the Subdivision of T. 39 S., R. 15 E.

| Chains | |
|---|---|
| | Asc. 50 ft. over rolling general SE. slope to ¼ sec. cor. |
| 4.20 | Wash, 15 lks. wide, 2 ft. deep, drains SE. |
| 16.00 | Low sandy spur, sloping SE. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>¼<br>S16 \| S15<br>1956 |
| | Deposit a sandstone, 6 x 6 x 6 ins., marked with a X alongside of post. |
| | Continue to asc. 20 ft. over general SE. slope to sec. cor. |
| 47.00 | Wash, 15 lks. wide, 2 ft. deep, drains SE. |
| 65.80 | Low sandy spur, sloping SE. |
| 73.80 | Wash, 50 lks. wide, 2 ft. deep, drains SE. |
| 80.00 | Point for the cor. of secs. 9, 10, 15, and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>T39S R15E<br>S9 \| S10<br>S16 \| S15<br>1956 |
| | Deposit a sandstone, 12 x 8 x 6 ins., marked with a X alongside of post. |
| | Land, rolling, with general SE. slope and drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate to scattered black brush and some cacti. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Asc. 65 ft. over rolling sandy land, general S. slope, to ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>¼<br>S9 \| S10<br>1956 |
| | No suitable accessories available. |
| | Continue to ascend 120 ft. over general S. slope to sec. cor. |
| 62.80 | Graded dirt road, bears N. 75° E. and S. 75° W. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 3, 4, 9, and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T39S R15E<br>S4 \| S3<br>S9 \| S10<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling, general S. slope and drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate to scattered black brush and cacti. |
| | N. 0° 11' W., bet. secs. 3 and 4.<br><br>Over rolling to broken land. |
| 2.00 | Base of lower rim of clay hills, with vertical ledge, 100 ft. high, facing S., bears W. and E. to N.; asc. 100 ft. over S. face of ledge. |
| 8.00 | Top of lower rim of clay hills, bears N. and W.; continue to asc. 40 ft. over SE. slope. |
| 12.80 | Spur, sloping SE.; desc. 40 ft. along E. slope. |
| 19.80 | Head of wash, drains SE.; asc. 45 ft. over SW. slope. |
| 26.55 | Spur, sloping SE.; desc. 45 ft. over general NE. slope. |
| 39.85 | Head of small box canyon, drains SE.; asc. 40 ft. over SW. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 4, falls on loose, sloping N. side of box canyon, where the monument cannot be perpetuated. |
| 42.00 | Point selected for the witness ¼ sec. cor. of secs. 3 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼<br>S4 \| S3<br>W.C.<br>1956<br><br>No suitable accessories available.<br><br>Continue to asc. 160 ft. over general SE. slope. |
| 79.70 | Base of nearly vertical clay ledge, 50 ft. high, facing S., bears NW. and SE. |
| 79.90 | The true point for the cor. of secs. 3, 4, 33, and 34, on the N. bdy. of the township.<br><br>Land, rolling to broken, general SE. drainage.<br>Soil, clay loam.<br>Timber, none; undergrowth, scattered cacti. |

| Chains | |
|---|---|
| | From the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 1 and 2. |
| | Over rolling, sandy land, general S. slope. |
| | Desc. 60 ft. over sandy S. slope to ¼ sec. cor. |
| 9.50 | Wash, 50 lks. wide, 2 ft. deep, drains SW. |
| 23.00 | Graded dirt road, bears NE. and SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>¼<br>S2 \| S1<br>1956 |
| | Deposit a sandstone, 12 x 10 x 10 ins., marked with a X alongside of post. |
| | Continue to desc. 40 ft. over a general S. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 11, and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>T39S R15E<br>S2 \| S1<br>S11 \| S12<br>1956 |
| | Deposit a sandstone, 10 x 8 x 7 ins., marked with a X alongside of post. |
| | Land, rolling with a general S. slope, drainage SW.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate to scattered black brush, some cacti. |
| | From the cor. of secs. 1, 6, 7, and 12, on the E. bdy. of the township. |
| | S. 89° 55' W., bet. secs. 1 and 12. |
| | Over broken to rolling land, general SE. slope. |
| 4.60 | Low spur, sloping SW.; desc. 95 ft. over a general NW. slope. |
| 25.60 | Left rim of Steer Gulch, with vertical ledge, 100 ft. high, facing NW., bears NE. and SW. |
| 29.80 | Wash channel, drains SW. |
| 31.60 | Right rim of Steer Gulch, with vertical ledge, 75 ft. high, facing SE., bears NE. and SW.; asc. 20 ft. over SE. slope. |

| Chains | |
|---|---|
| 36.05 | Point of rocky spur, sloping SW.; desc. 35 ft. over NW. slope. |
| 38.60 | Left rim, west branch of Steer Gulch, with nearly vertical ledge, 75 ft. high, facing W., bears NE. and S. |
| 40.00 | True point for the ¼ sec. cor. of secs. 1 and 12, falls in wash, drains SW., where it is impractical to set the monument. |
| 45.55 | Right rim, west branch of Steer Gulch, with nearly vertical ledge, 100 ft. high, facing E., bears NE. and SW. |
| 46.15 | Point selected for the witness ¼ sec. cor. of secs. 1 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked. |
| | ¼ — S 1 / S 12 → WC<br>1956 |
| | No suitable accessories available. |
| | Thence over rolling land; desc. 20 ft. over general W. slope. |
| 80.00 | The cor. of secs. 1, 2, 11, and 12. |
| | Land, broken to rolling.<br>Soil, rocky sand.<br>Timber, scattered pinon; east ¼ mile; undergrowth, moderate black brush and some cacti. |
| | From the cor. of secs. 2, 3, 34, and 35, on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Over broken to rolling land. |
| | Desc. 10 ft. over SW. slope. |
| 8.90 | Lower rim of clay hills, with vertical ledge, 200 ft. high, facing S., bears SE. and SW. |
| | Thence by triangulation; desc. 230 ft. |
| 12.00 | Base of lower rim of clay hills, bears SE. and SW. |
| 20.00 | Thence by chaining; desc. 15 ft. over general S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked |
| | ¼<br>S3 \| S2<br>1956 |
| | No suitable accessories available. |
| | Continue to desc. 70 ft. over general S. slope. |
| 63.40 | Graded dirt road, bears NE. and SW. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 2, 3, 10, and 11.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>T39S R15E<br>S3 \| S2<br>S10 \| S11<br>1956<br>No suitable accessories available.<br><br>Land, broken to rolling, general S. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 1, 2, 11, and 12.<br><br>S. 89° 53' W., bet. secs. 2 and 11.<br><br>Over rolling land; desc. 60 ft. over general SW. slope. |
| 25.95 | Wash, 60 lks. wide, 2 ft. deep, drains SW.; asc. 10 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>¼ S 2<br>S 11<br>1956<br>No suitable accessories available.<br>Thence over nearly level land. |
| 55.20 | Wash, 30 lks. wide, 2 ft. deep, drains S. |
| 74.00 | Wash, 30 lks. wide, 3 ft. deep, drains SE. |
| 80.00 | The cor. of secs. 2, 3, 10, and 11.<br>Land, rolling to nearly level, general SW. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 2, 3, 10, and 11.<br><br>S. 89° 56' W., bet. secs. 3 and 10.<br><br>Over nearly level land. |
| 21.60 | Rut road, bears N. 10° E. and S. 10° W. |
| 39.00 | Wash, 25 lks. wide, 3 ft. deep, drains S. |
| 40.01 | Point for the ¼ sec. cor. of secs. 3 and 10. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼ S 3 / S 10 / 1956 |
| | No suitable accessories available. |
| | Leave nearly level land and desc. 45 ft. over a general S. slope to sec. cor. |
| 41.80 | Wash, 30 lks. wide, 4 ft. deep, drains SE. |
| 46.20 | Graded dirt road, bears N. 25° E. and S. 25° W., approximately 8 chains north of N. end of landing strip, which bears NE. and SW. |
| 63.00 | Wash, 30 lks. wide, 4 ft. deep, drains SE. |
| 80.02 | The cor. of secs. 3, 4, 9, and 10. |
| | Land, nearly level to rolling.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate black brush and cacti. |
| | From the cor. of secs. 15, 16, 21, and 22. |
| | S. 89° 52' W., bet. secs. 16 and 21. |
| | Over rolling to nearly level land, general SW. slope. |
| | Asc. 10 ft. over E. slope. |
| 8.00 | Low sandy spur, sloping S. to SW.; desc. 20 ft. over a general W. slope. |
| 15.10 | Wash, 20 lks. wide, 2 ft. deep, drains S. to SW.; asc. 25 ft. over E. slope to sec. cor. |
| 36.90 | Wash, 20 lks. wide, 2 ft. deep, drains S. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked |
| | ¼ S 16 / S 21 / 1956 |
| | No suitable accessories available. |
| | Desc. 20 ft. over a general W. slope. |
| 45.00 | Wash, 30 lks. wide, 3 ft. deep, drains SE. |
| 49.50 | Land becomes nearly level. |
| 65.40 | Wash, 30 lks. wide, 3 ft. deep, drains SE. |
| 80.00 | Point for the cor. of secs. 16, 17, 20, and 21. |

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| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>T39S R15E<br>S17 \| S16<br>S20 \| S21<br>1956<br>Deposit a sandstone, 8 x 6 x 6 ins., marked with a X alongside of post.<br>Land, rolling to nearly level, general SW. slope and drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | N. 0° 03' W., bet. secs. 16 and 17.<br>Over rolling to nearly level land; asc. 15 ft. over slight SE. slope. |
| 22.30 | Low spur, sloping SE.; desc. 15 ft. over NE. slope. |
| 32.70 | Wash, 50 lks. wide, 2 ft. deep, drains SE. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>¼<br>S17 \| S16<br>1956<br>Deposit a sandstone, 16 x 4 x 4 ins., marked with a X alongside of post. |
| 50.00 | Leave nearly level land; asc. 65 ft. over general SE. slope. |
| 71.65 | Wash, 40 lks. wide, 3 ft. deep, drains SE. |
| 80.00 | Point for the cor. of secs. 8, 9, 16, and 17.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>T39S R15E<br>S8 \| S9<br>S17 \| S16<br>1956<br>Deposit a sandstone, 10 x 8 x 6 ins., marked with a X alongside of post.<br>Land, rolling, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 9, 10, 15, and 16.<br>S. 89° 53' W., bet. secs. 9 and 16. |

| Chains | |
|---|---|
| | Over nearly level land. |
| 8.00 | Wash, 100 lks. wide, 2 ft. deep, drains SE. |
| 24.00 | Leave nearly level land and asc. 30 ft. over a general NE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked |
| | ¼ S 9 / S 16 / 1956 |
| | No suitable accessories available. |
| | Asc. 20 ft. over NE. slope |
| 44.00 | Low sandy spur, sloping NW.; desc. 30 ft. over SW. slope. |
| 51.60 | Wash, 30 lks. wide, 3 ft. deep, drains S. to SW.; asc. 25 ft. over a general E. slope to sec. cor. |
| 60.00 | Wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 75.30 | Wash, 20 lks. wide, 3 ft. deep, drains SE. |
| 80.00 | The cor. of secs. 8, 9, 16, and 17. |
| | Land, nearly level to rolling, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, moderate to scattered black brush. |
| | From the true point for the cor. of secs. 4, 5, 32, and 33, which is witnessed S. 89° 52' W., 0.60 chs. dist., by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Along a wash, 150 lks. wide, drains S. to SW. |
| 7.50 | Leave wash, drains S. from NE.; asc. 20 ft. over steep SE. slope. |
| 19.10 | Bank of wash, which bears NE. and SW.; continue to asc. 30 ft. over a general SE. slope. |
| 33.30 | Flat topped spur, sloping SW.; desc. 15 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | ¼<br>S32 \| S33<br>1956 |
| | No suitable accessories available. |
| | Slope changes to N.; desc. 25 ft. |

| Chains | |
|---|---|
| 71.50 | Wash, 30 lks. wide, 2 ft. deep, drains E. |
| 75.90 | Rut road, bears E. and W. |
| 80.00 | Point for the cor. of secs. 28, 29, 32, and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked |
| | T39S R15E<br>S29 \| S28<br>S32 \| S33<br>1956 |
| | Deposit a sandstone, 5 x 5 x 5 ins., marked with a X alongside of post. |
| | Land, rolling.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush. |
| | From the cor. of secs. 27, 28, 33, and 34. |
| | S. 89° 48' W., bet. secs. 28 and 33. |
| | Over rolling sandy land. |
| 11.30 | Wash, 40 lks. wide, 3 ft. deep, drains SW. to S., from SE.; asc. 75 ft. over a general E. slope. |
| 27.95 | Rut road, bears N. 55° E. and S. 55° W., on top of sandy spur, sloping N.; desc. 70 ft. over a general W. slope to ¼ sec. cor. |
| 40.00 | Point for the ¼ sec. cor. of secs. 28 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | ¼ S 28<br>S 33<br>1956 |
| | No suitable accessories available. |
| | Continue to desc. 35 ft. over a general W. slope. |
| 54.60 | Wash, 100 lks. wide, 6 ft. deep, drains S. to SW., from N.; asc. 10 ft. over SE. slope. |
| 61.00 | Spur, sloping SW.; desc. 15 ft. over a general W. slope. |
| 80.00 | The cor. of secs. 28, 29, 32, and 33. |
| | Land, rolling, general SW. drainage.<br>Soil, rocky sand.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |

| Chains | |
|---|---|
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Asc. 55 ft. over a general SE. slope to the ¼ sec. cor. |
| 10.30 | Wash, 10 lks. wide, 2 ft. deep, drains SE. |
| 32.00 | Sandstone spur, sloping SE. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S31 \| S32<br>1956 |
| | No suitable accessories available. |
| | Desc. 15 ft. over general E. slope to sec. cor. |
| 79.50 | Rut road, bears N. 20° W. and S. 20° E. |
| 80.00 | Point for the cor. of secs. 29, 30, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>T39S R15E<br>S30 \| S29<br>S31 \| S32<br>1956 |
| = | No suitable accessories available. |
| | Land, rolling, general SE. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush. |
| | From the cor. of secs. 28, 29, 32, and 33. |
| | S. 89° 51' W., bet. secs. 29 and 32. |
| | Over rolling land; asc. 15 ft. over SE. slope. |
| 6.10 | Wash, 25 lks. wide, 3 ft. deep, drains SE. |
| 19.40 | Spur, sloping SE. |
| 25.40 | Wash, 30 lks. wide, 4 ft. deep, drains SE. |
| 40.01 | Point for the ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked<br>¼ S 29 / S 32<br>1956 |

| Chains | |
|---|---|
| | Deposit a sandstone, 6 x 6 x 6 ins., marked with a X alongside of post. |
| 40.50 | Flat topped spur, sloping SE. |
| 46.00 | Wash, 10 lks. wide, 2 ft. deep, drains SE. |
| 59.00 | Very low spur, sloping SE. |
| 68.80 | Rut road, bears N. 30° W. and S. 30° E. |
| 80.02 | The cor. of secs. 29, 30, 31, and 32. |
| | Land, rolling, general S. drainage.<br>Soil, sandy.<br>Timber, none; undergrowth, scattered black brush. |
| | From the cor. of secs. 29, 30, 31, and 32, |
| | S. 89° 50' W., bet. secs. 30 and 31. |
| | Over rolling land, general SW. slope; desc. 55 ft. to the ¼ sec. cor. |
| .30 | Rut road, bears N. 55° W. and S. 55° E. |
| 7.90 | Same road, bears N. 50° E. and S. 50° W. |
| 10.70 | Same road, bears N. 25° W. and S. 25° E. |
| 13.70 | Low spur, sloping SW. |
| 19.60 | Head of wash, drains SW. |
| 35.50 | Low spur, sloping SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 30 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼ S 30 / S 31<br>1956<br>No suitable accessories available. |
| | Desc. 120 ft. over a general W. slope to sec. cor. |
| 50.40 | Rut road, bears N. 5° W. and S. 5° E. |
| 66.00 | Wash, 80 lks. wide, 4 ft. deep, drains SW. |
| 76.00 | Wash, 20 lks. wide, drains SW. from NW. |
| 78.98 | The cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | Land, rolling, general SW. drainage.<br>Soil, rocky sand.<br>Timber, none; undergrowth, scattered black brush and cacti. |

Chains

## General Description

A considerable variety of land is found in T. 39 S., R. 15 E. The land forms are low rolling hills, high mesas, deep youthful stream valleys and steep broken ledges. The township is cut by several deep canyons and washes, which drain SW. into San Juan River, which meanders west approximately 3 miles south of the south boundary of the township. The largest of these canyons is Steer Gulch, which crosses the township NE. to SW., entering at the NE. ¼ of sec. 1 and leaves the township at the SE. ¼ of sec. 33. The general elevation of the township ranges from about 4400 along the south boundary to 6400 ft. above sea level in the area of Clay Hills, which is an area of extremely rough and broken land, located in secs. 3, 4, 5, 6, 7, and 18. The remaining part of the township is rolling, except where cut by canyons and washes. The residual sandy soil varies in depth from exposed parent rock to several feet in some areas.

There are no permanent streams or bodies of water within the boundaries of the township. There are three man made reservoirs, one each in secs. 3, 9, and 28. The reservoir in sec. 3 is known as Lake Buckley. Due to the extended drouth now prevailing over this area these reservoirs were dry during the surveying season. There are a few scattered pinon and juniper in secs. 6, 12, and 36, and the entire township is covered by a scattered to moderate growth of blackbrush, gamma grass and some cacti.

The development of the township thus far consists of an access road, which extends south, 14 miles from State Highway 95 to the N. bdy. in the NW¼ of sec. 1; thence SW. to a junction ¼ mile east of Lake Buckley in sec. 3, rut road south to the reservoir in sec. 28; thence west to the W. bdy. of the township where it joins the main access road. From the junction east of Lake Buckley the main access road continues west to a fork near the ¼ sec. cor. of secs. 7 and 8. The NW. fork leads up over Clay Hills Pass, the SW. fork south 18 miles to the San Juan River. There has been considerable exploration for minerals, primarily fissionable, and oil throughout the township. The graded landing strip in sec. 10 was evidently constructed in connection with this exploration. The landing strip is approximately 25 chains in length and in good condition. There are no producing mines or wells in the township. The only productive aspect of the township is in winter grazing of cattle.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Jim H. Tyer | Note-keeper |
| Maurice L. Hinton | Frontchainman |
| Darwin P. Russell | Cornerman |
| Dell (NMN) Cazier | Flagman |
| William E. Brickey | Axeman |

16—58565-2

317

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13 day of May, 1956 I have surveyed The North Boundary and a portion of the Subdivision of T. 39 S., R. 15 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah

Phil D. Smith, Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* JUL 23 1957, *19*

The foregoing field notes of the survey of the N. boundary and a portion of the subdivision of Township 39 South, Range 15 East, of the Salt Lake Meridian,

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~ ~~, is a true~~ copy of the original field notes.

~~Chief, Division of Cadastral Engineering~~

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]-2

ORIGINAL

4—679
(September 1948)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

of the

Survey of the North and West Boundaries

and a

Portion of the Subdivision

of

Township 39 South, Range 16 East

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Phil D. Smith, Cartographic Survey Aid

*Under special instructions dated* May 13, *1955*, *which provided*

*for the surveys included under Group No.* 405, *approved* May 31, 1955

*and assignment instructions dated* May 21, *1956*

*Survey commenced* June 26, *19* 56

*Survey completed* September 19, *19* 56

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 39 South, *Range* 16 East

| | | | | | |
|---|---|---|---|---|---|
| 10<br>5 6 | 9<br>5 | 8<br>4 | 8<br>17 3<br>22 | 7<br>21 2<br>20 | 6<br>18 1<br>19 |
| 5 7 | 8 | 9<br>25 | 16 10 | 11 | 12 |
| 4 18 | 17 | 23 16<br>22 | 16 15 | 14 | 13 |
| 3 19 | 20 | 21 | 15 22 | 23 | 24 |
| 3 30 | 29<br>27 | 28 | 14 27 | 26 | 25 |
| 2 31 26 | 32 25 | 33 | 13 34 | 35 | 12<br>11 36 |

10—68770-1

24-80

T. 39 S., R. 16 E.

Chains

The south boundary of T. 39 S., R. 16 E., was surveyed by C. F. Moore in 1927, and its record appears in the field notes of T. 40 S., R. 16 E. The east boundary was surveyed by Moore and Yundt in 1929, and its record appears in the field notes of the range line between Rs. 16 and 17 E. in T. 39 S.

The following field notes are those of the survey of the north and west boundaries and a portion of the subdivision of T. 39 S., R. 16 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered State school sections.

This survey was executed with a light mountain solar transit made by Buff and Buff, serial number 23831, and a W. and L. E. Gurley transit, serial number 541329, equipped with an improved telescopic solar attachment, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good condition prior to the survey and were maintained in proper adjustment throughout the progress of the survey.

The directions of lines of survey were determined generally by sustained angulation carried forward from the following hour angle observation on Polaris for meridian; supplemented by numerous Polaris observations for azimuth taken throughout the progress of this survey.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true methods, but for simplification of the record, the random lines are omitted from the field notes. In accordance with the intent of the special instructions all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links, and thereafter at intervals of 10 links. The tape was tested by comparison with a 1-chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show the horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible to chaining were run by traverse or triangulation methods, the details have been thoroughly checked and verified and in order to simplify the record, the diagrams and reductions are omitted from these field notes.

The geographic position for the southeast corner of this township is latitude 37° 20' 45" N. and longitude 110° 05' 35" W., as determined from U. S. G. S, quadrangle sheets, and triangulation station "Rock", which is situated in the NW. portion of sec. 2, T. 37 S., R. 15 E.

June 10, 1956, at the corner of Ts. 39 and 40 S., Rs. 15 and 16 E., in latitude 37° 20' 45" N. and longitude 110° 12' 07" W., at 3h 29m 54s l. m. t., I make an hour angle observation on Polaris, west of the meridian, making two observations each with the telescope in direct and reversed positions, reading the horizontal angle from a flag set approximately 18 chains north, with the following results:

Chains

| | |
|---|---|
| Mean horizontal angle, flag to Polaris | 1° 09' 00" |
| Azimuth of Polaris, W. of the meridian | 1° 09' 00" |
| True bearing to flag | North |

The magnetic declination was read at a number of stations throughout the township, and the average of the readings was found to be 15° E.

## West Boundary of T. 39 S., R. 16 E.

Beginning at the cor. of Ts. 39 and 40 S., Rs. 15 and 16 E., which is marked by an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the official record.

North, bet. secs. 31 and 36.

Over rolling land; asc. 20 ft. over gentle SE. slope.

16.00 Low spur SW.; desc. 45 ft. over NW. slope.

26.45 Wash, 40 lks. wide, 2 ft. deep, drains S. 40° W.; asc. 25 ft. over SE. slope.

33.25 Low spur, sloping S. 40° W.; desc. 20 ft. over general NW. slope.

38.25 Wash, 10 lks. wide, 2 ft. deep, drains S. 40° W.; asc. 20 ft. over general SE. slope.

40.00 Point for the ¼ sec. cor. of secs. 31 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked

¼
S 36 | S31
1956

Asc. 70 ft. over general SE. slope.

51.00 Low flat topped spur, sloping SW.; desc. 10 ft. over gentle NW. slope.

62.95 Wash, 30 lks. wide, 2 ft. deep, drains S. 35° W., asc. 45 ft. over rolling SE. slope.

80.00 Point for the cor. of secs. 25, 30, 31, and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked

T39S
R15E | R16E
S25 | S30
S36 | S31
1956

Land, rolling, general SW. drainage.
Soil, sandy and rocky.
Timber, none; undergrowth, moderate black brush, some Brigham tea.

West Boundary, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| | North, bet. secs. 25 and 30. |
| | Over rolling land; desc. 40 ft. over rolling general NW. slope. |
| 10.00 | Wash, drains NW.; asc. SE. slope. |
| 39.00 | Top of ascent; thence along top of flat topped spur, sloping SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>¼<br>S25 \| S30<br>1956 |
| 40.50 | Leave flat topped spur; desc. 20 ft. over NW. slope. |
| 49.70 | Wash, 10 lks. wide, 1 ft. deep, drains S. 70° W.; asc. 30 ft. over general S. slope. |
| 65.00 | Low spur, sloping W.; desc. 35 ft. over general N. slope. |
| 74.70 | Wash, 80 lks. wide, 3 ft. deep, drains S. 65° W. |
| 80.00 | Point for the cor. of secs. 19, 24, 25, and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone outcrop and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked<br>T39S<br>R15E \| R16E<br>S24 \| S19<br>S25 \| S30<br>1956 |
| | No accessories available. |
| | Land, rolling, general SW. drainage.<br>Soil, sandy.<br>Timber, moderate pinon; undergrowth, moderate black brush. |
| | North, bet. secs. 19 and 24. |
| | Over nearly level land, slight NW. slope. |
| 25.50 | Wash, 30 lks. wide, 2 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S24 \| S19<br>1956 |
| | Continue over nearly level land. |
| 80.00 | Point for the cor. of secs. 13, 18, 19, and 24. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 5 ft. base to top of post, with brass cap marked<br><br>T39S<br>R15E \| R16E<br>S13 \| S18<br>S24 \| S19<br>1956<br><br>No suitable accessories available.<br><br>Land, nearly level, general NW. drainage.<br>Soil, sandy.<br>Timber, scattered pinon; undergrowth, moderate black brush and cacti. |
| | North, bet. secs. 13 and 18. |
| | Over rolling land; asc. 35 ft. over SE. slope. |
| 20.50 | Low spur, sloping W.; desc. 20 ft. over NW. slope. |
| 34.00 | Wash, 20 lks. wide, 2 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br><br>¼<br>S13 \| S18<br>1956<br><br>No suitable accessories available.<br><br>Continue over rolling land; asc. 50 ft. to sec. cor. |
| 46.10 | Wash, 30 lks. wide, 3 ft. deep, drains W. |
| 58.90 | Wash, 40 lks. wide, 5 ft. deep, drains W. |
| 69.20 | Wash, 10 lks. wide, 4 ft. deep, drains W. |
| 79.00 | Top of ascent on flat topped spur, sloping W. |
| 80.00 | Point for the cor. of secs. 7, 12, 13, and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over X cut into solid sandstone outcrop and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked<br><br>T39S<br>R15E \| R16E<br>S12 \| S7<br>S13 \| S18<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling, general SW. drainage.<br>Soil, sandy and rocky.<br>Timber, moderate to scattered pinon; undergrowth, moderate to scattered black brush. |

West Boundary, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| | North, bet. secs. 7 and 12. |
| | Desc. 70 feet to ¼ sec. cor. over general NW. slope. |
| 20.90 | Wash, 2 ft. wide, 1 ft. deep, drains W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S12 \| S7<br>1956<br>No suitable accessories available. |
| | Continue over rolling to broken land. |
| 40.70 | Wash, 2 ft. wide, 1 ft. deep, drains W. |
| 43.75 | Low spur, sloping W. |
| 51.35 | Wash, 50 lks. wide, 3 ft. deep, drains S. 40° W. |
| 75.20 | Wash, 30 lks. wide, 2 ft. deep, drains S. 40° W. |
| 80.00 | Point for the cor. of secs. 1, 6, 7, and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br>T39S<br>R15E \| R16E<br>S1 \| S6<br>S12 \| S7<br>1956<br>No suitable accessories available. |
| | Land, rolling to broken, with numerous sandstone outcrops, general SW. drainage.<br>Soil, sandy and rocky.<br>Timber, scattered pinon; undergrowth, scattered black brush and cacti. |
| | North, bet. secs. 1 and 6. |
| | Over broken land, asc. 55 ft. over general SW. slope. |
| 17.10 | Sandstone spur, sloping N. 40° W.; desc. 90 ft. over NE. slope. |
| 21.00 | S. rim Steer Gulch, bears NE. and SW., with vertical ledge 75 ft. high facing NW.; desc. 150 ft. |
| 24.00 | Bottom of Steer Gulch, 1 ch. wide, drains SW.; asc. 150 ft. over SE. slope. |
| 26.40 | N. rim of Steer Gulch, bears NE. and SW., with vertical ledge 50 ft. high. |
| 29.60 | Sandstone spur, sloping SW.; desc. 25 ft. over NW. slope. |

West Boundary, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| 39.60 | Wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 15 ft. over SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 5 ft. base to top of post, with brass cap marked<br><br>¼<br>S1 \| S6<br>1956<br><br>Continue over rolling to broken land. |
| 54.00 | S. rim, north branch of Steer Gulch, bears NE. and SW.; desc. 100 ft. over NW. slope. |
| 55.80 | Wash, 40 lks. wide, 4 ft. deep, drains SW.; asc. 100 ft. over SE. slope. |
| 64.55 | N. rim, north branch of Steer Gulch, bears NE. and SW.; desc. 20 ft. over NW. slope. |
| 80.00 | Point for the cor. of Ts. 38 and 39 S., Rs. 15 and 16 E.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone outcrop and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked<br><br>T38S<br>R15E \| R16E<br>S36 \| S31<br>S1 \| S6<br>T39S<br>1956<br><br>No suitable accessories available.<br><br>Land, broken, general SW. drainage.<br>Soil, sandy and rocky.<br>Timber, scattered pinon; undergrowth, moderate black brush and cacti. |

North Boundary, T. 39 S., R. 16 E.

| | |
|---|---|
| | Beginning at the cor. of Ts. 38 and 39 S., Rs. 16 and 17 E., which is marked by an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the official record.<br><br>N. 89° 57' W., bet. secs. 1 and 36.<br><br>Over rolling land; desc. 65 ft. over general SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |

North Boundary, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| | ¼ S 36 / S 1 / 1956 |
| | Continue over nearly level land. |
| 41.00 | Wash, 30 lks. wide, 3 ft. deep, drains SW. |
| 76.00 | Low spur, sloping S. 40° W. |
| 80.00 | Point for the cor. of secs. 1, 2, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T38S R16E<br>S35 \| S36<br>S2 \| S1<br>T39S<br>1956 |
| | No suitable accessories available. |
| | Land, east half rolling, west half nearly level.<br>Soil, sandy.<br>Timber, scattered juniper and pinon; undergrowth, moderate to scattered black brush and cacti. |
| | N. 89° 57' W., bet. secs. 2 and 35. |
| | Over rolling land; desc. 75 ft. over general SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼ S 35 / S 2 / 1956 |
| | Continue over rolling land. |
| 45.00 | Leave rolling land, enter rough broken land. |
| 50.00 | E. rim, Grand Gulch, bears N. and S., with vertical ledge 175 ft. high facing W. |
| | Thence by triangulation. |
| 64.00 | Bottom of Grand Gulch, drains S. |
| 77.20 | W. rim, Grand Gulch, bears N. and S., with vertical ledge 200 ft. high, facing E. |
| | Thence by chaining. |
| 80.00 | True point for the cor. of secs. 2, 3, 34, and 35 falls on rough broken sandstone ledges, facing NE., where the monument cannot be perpetuated. |

| Chains | |
|---|---|
| | Land, east half rolling, west half rough and broken.<br>Soil, sandy and rocky.<br>Timber, none; undergrowth, scattered black brush and cacti. |
| | N. 89° 57' W., bet. secs. 3 and 34.<br><br>Over rolling land; asc. 50 ft. over broken NE. slope. |
| 3.85 | Point selected for the witness cor. of secs. 2, 3, 34, and 35.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T38S R16E<br>S34 \| S35 → WC<br>S3 \| S2<br>T39S<br>1956<br><br>Asc. 65 ft. over general E. slope. |
| 25.50 | Low spur, sloping S.; desc. 30 ft. over W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼ S 34<br>S 3<br>1956<br><br>No suitable accessories available.<br><br>Desc. 135 ft. over general W. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33, and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T38S R16E<br>S33 \| S34<br>S4 \| S3<br>T39S<br>1956<br><br>No suitable accessories available.<br><br>Land, rolling, general SW. drainage.<br>Soil, sandy and rocky.<br>Timber, scattered pinon and juniper; undergrowth, moderate black brush and cacti. |
| | N. 89° 57' W., bet. secs. 4 and 33.<br><br>Over rolling to broken land; desc. 145 ft. over general W. slope. |

North Boundary, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| 34.40 | E. rim, branch of Grand Gulch, bears N. and S.; desc. 140 ft. over SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>¼ S 33 / S 4<br>1956<br>No suitable accessories available. |
| | Continue over rolling to broken land. |
| 41.00 | Wash, 15 lks. wide, 2 ft. deep, drains SW.; asc. 50 ft. over SE. slope. |
| 43.00 | Tip of low spur, sloping SW.; desc. 20 ft. |
| 47.00 | Wash, 10 lks. wide, 2 ft. deep, drains SE. A spring bears S., 7 chs.; asc. 70 ft. over general E. slope. |
| 50.50 | W. rim, branch of Grand Gulch, bears N. and SW. |
| 56.15 | Low spur, sloping S.; desc. 85 ft. over general W. slope. |
| 79.30 | Point selected for the witness cor. of secs. 4, 5, 32, and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked<br>T38S R16E<br>WC ← S32 \| S33<br>S5 \| S4<br>T39S<br>1956<br>No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 4, 5, 32, and 33 falls in wash, 10 lks. wide, 3 ft. deep, drains SW. |
| | Land, rolling to broken, general SW. drainage.<br>Soil, sandy and rocky.<br>Timber, scattered pinon and juniper; undergrowth, scattered black brush and cacti. |
| | N. 89° 57' W., bet. secs. 5 and 32. |
| | Over rolling to broken land. |
| 7.00 | E. rim, branch of Grand Gulch, bears NW. and SE., with vertical ledge 30 ft. high, facing SW. |
| | Thence by triangulation; desc. 100 ft. |
| 18.00 | Wash, 25 lks. wide, 4 ft. deep drains SE. |

| Chains | |
|---|---|
| 23.00 | W. rim, branch of Grand Gulch, bears NW. and SE., with vertical ledge 40 ft. high, facing NE. |
| | Thence by chaining; asc. 85 ft. over NE. slope. |
| 29.00 | Dim stock road, bears N. and S.; asc. 40 ft. over NE. slope. |
| 34.00 | SE. edge of small knoll. |
| 38.00 | Top of S. end of small knoll. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼ S 32 / S 5 / 1956 |
| | No suitable accessories available. |
| | Continue over broken to rolling land. |
| 41.00 | SW. edge of knoll, general drainage changes to SW.; desc. 90 ft. over general SW. slope. |
| 80.00 | Point for the cor. of secs. 5, 6, 31, and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T38S R16E<br>S31 \| S32<br>S6 \| S5<br>T39S<br>1956 |
| | No suitable accessories available. |
| | Land, broken to rolling, general SE. drainage east half; drainage in west half is SW.<br>Soil, sandy.<br>Timber, scattered pinon and juniper; undergrowth, moderate black brush, scattered cacti. |
| | N. 89° 57' W., bet. secs. 6 and 31. |
| | Over rough, broken land; desc. 30 ft. over W. slope. |
| 7.50 | E. rim, Steer Gulch, bears NE. and W., with vertical ledge 100 ft. high. |
| 14.75 | Leave rim, bears E. and SW.; desc. 170 ft. over broken general NW. slope. |
| 26.00 | Wash in Steer Gulch, 30 lks. wide, 3 ft. deep, drains SW.; asc. 150 ft. over broken E. slope. |
| 29.00 | W. rim, Steer Gulch, bears NE. and S. to SW. |

North Boundary, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| 35.30 | Head of short wash, draining SW. to Steer Gulch. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>¼ S 31 / S 6<br>1956<br><br>No suitable accessories available.<br><br>Desc. 85 ft. over W. slope. |
| 65.30 | E. rim, branch of Steer Gulch, bears N. and S.; desc. 45 ft. over broken W. slope. |
| 67.80 | Wash, 30 lks. wide, 4 ft. deep, drains S.; asc. 40 ft. over broken E. slope. |
| 69.00 | W. rim, branch of Steer Gulch, bears N. and S.; asc. 45 ft. over short SE. slope. |
| 70.20 | Top of ascent; thence over nearly level land. |
| 78.70 | The cor. of Ts. 38 and 39 S., Rs. 15 and 16 E.<br><br>Land, rough and broken.<br>Soil, rocky.<br>Timber, scattered pinon and juniper; undergrowth, scattered black brush. |

Portion of the Subdivision of T. 39 S., R. 16 E.

| | |
|---|---|
| | Beginning at the true point for the cor. of secs. 1, 2, 35, and 36 on the S. bdy. of the township which is witnessed S. 89° 59' E., 0.29 chs. dist., by an iron post, 2 ins. diam., set, marked and witnessed as described in the official record.<br><br>N. 0° 01' W., bet. secs. 35 and 36.<br><br>Over broken sandstone ledges, facing S.; asc. 60 ft. over nearly vertical ledge, facing S. |
| 1.80 | Sandstone ledge, bears E. and W., facing S.; continue to asc. 80 ft. over face of ledge. |
| 3.90 | Top of ascent on ledge, bears N. 60° E. and S. 60° W.; thence desc. 20 ft. over broken general NW. slope, with numerous sandstone outcroppings. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼<br>S35 \| S36<br>1956<br><br>No suitable accessories available. |

| Chains | |
|---|---|
| | Thence over rolling land, slight SW. slope; desc. 80 ft. |
| 79.70 | Point selected for the witness cor. of secs. 25, 26, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 5 ft. base to top of post, with brass cap marked<br>T39S R16E<br>W C<br>S26 \| S25<br>S35 \| S36<br>1956<br>No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 25, 26, 35, and 36, falls on steep, short SW. face of sandstone outcropping, 10 ft. high, 20 ft. wide, 20 ft. long, where the monument cannot be perpetuated. |
| | Land, south half rough and broken; north half rolling.<br>Soil, sandy and rocky.<br>Timber, scattered pinon and juniper; undergrowth, moderate black brush and cacti. |
| | From the cor. of secs. 25, 30, 31, and 36, on the E. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | N. 89° 57' W., bet. secs. 25 and 36. |
| | Over broken land; desc. 50 ft. over NW. slope of surface rock. |
| 3.00 | Base of descent, on surface rock, bears NE. and SW.; thence over broken land. |
| 8.00 | Enter heavy juniper and pinon timber, bears N. and S. |
| 25.00 | Leave juniper and pinon timber, bears NW. and SE. |
| 30.00 | Wash, 20 lks. wide, 3 ft. deep, drains SW.; asc. 30 ft. over general E. slope. |
| 39.97 | True point for the ¼ sec. cor. of secs. 25 and 36, falls on S. edge of sandstone ledge, facing S., 5 ft. high, bears N. 80° E. and N. 80° W., where the monument cannot be perpetuated. |
| 40.15 | Point selected for the witness ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼ S 25 / S36 → WC<br>1956<br>No suitable accessories available. |
| | Asc. 70 ft. over general SE. slope, over numerous sandstone outcroppings. |

| Chains | |
|---|---|
| 54.80 | Spur, sloping SW.; desc. 10 ft. over general NW. slope. |
| 79.94 | The true point for the cor. of secs. 25, 26, 35, and 36. |
| | Land, broken to rolling, with numerous sandstone outcroppings.<br>Soil, sandy loam.<br>Timber, heavy pinon and juniper; east ¼ mile; undergrowth scattered desert shrubs. |
| | From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Over rolling land, slight SW. slope. |
| 5.10 | Wash, drains SW. |
| 20.00 | S. base of low sandstone ridge, bears E. and W.; leave rolling land; asc. 35 ft. over S. slope of sandstone ridge. |
| 28.00 | Top of ascent on sandstone ridge, bears E. and W.; desc. 45 ft. over N. slope. |
| 34.00 | N. base of ridge, bears E. and W.; thence over broken land. |
| 37.00 | Wash, drains SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br>¼<br>S33 \| S34<br>1956<br>No suitable accessories available. |
| | Continue over broken, rough land. |
| 52.00 | Thence by triangulation, over rough, broken boulder strewn land. |
| 75.00 | Thence by chaining. |
| 80.00 | Point for the cor. of secs. 27, 28, 33, and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T39S R16E<br>S28 \| S27<br>S33 \| S34<br>1956<br>No suitable accessories available. |
| | Land, south half rolling, north half rough and broken.<br>Soil, sandy, boulder strewn.<br>Timber, scattered juniper and pinon; undergrowth, scattered artimesia and cacti. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Over rough broken land. |
| 2.00 | S. rim of small box canyon, bears E. and W., with nearly vertical walls 160 ft. high. |
| 10.00 | Wash, drains W. from SE. |
| 11.50 | Wash, drains SW. 2 chs. to junction; asc. S. slope. |
| 13.30 | N. rim of small box canyon, bears W. and NE., with nearly vertical walls 150 ft. high; desc. 40 ft. over general NW. slope. |
| 15.30 | S. base of sandstone spur, bears E. and W., facing S.; asc. 30 ft. |
| 16.80 | Sandstone spur, sloping W.; desc. 30 ft. over N. slope. |
| 18.30 | N. base of sandstone spur, bears E. and W., facing N. |
| 19.50 | S. rim of canyon, bears NE. and SW., with vertical ledge 70 ft. high. |
| | Thence by triangulation cross canyon and asc. 110 ft. |
| 35.00 | Wash, drains SW. |
| 39.00 | N. rim of canyon, bears NE. and SW., with vertical ledge 90 ft. high. |
| | Thence by chaining. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |

¼
S28 | S27
1956

No suitable accessories available.

Desc. 75 ft. over numerous rough broken sandstone outcroppings; with general N. slope.

| | |
|---|---|
| 76.00 | Wash, 2 chs. wide, 15 ft. deep, drains W., heads 10 chains E.; asc. short S. slope. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked |

T39S R16E
S21 | S22
S28 | S27
1956

No suitable accessories available.

Land, rough and broken, general SW. drainage.
Soil, sandy, boulder strewn, with numerous sandstone outcrops.
Timber, thinly scattered scrub juniper; undergrowth, scattered artemesia and cacti.

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over rolling land. |
| 22.00 | Wash, 30 lks. wide, 4 ft. deep, drains NW. |
| 31.10 | Point selected for the witness ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | ¼<br>W C<br>S21 ↑ S22<br>1956 |
| | No suitable accessories available. |
| | Thence by triangulation, desc. 50 ft. over sharp N. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 21 and 22, falls on sharp loose N. slope, where the monument cannot be perpetuated. |
| | Desc. 90 ft. over sharp N. slope. |
| 46.10 | S. rim, branch of Grand Gulch, bears N. 80° W. and E.; desc. 140 ft. over broken NE. slope. |
| 50.40 | Wash channel, 30 lks. wide, 5 ft. deep, drains NW., heads approximately 19 chs. SE.; asc. 50 ft. over broken SW. slope. |
| 51.10 | N. rim, branch of Grand Gulch, bears N. 80° W. and S. 80° E.; asc. 80 ft. over SW. slope. |
| 63.20 | Sandstone boulder, 15 ft. high, 15 ft. wide, 20 ft. long; desc. 55 ft. over N. slope. |
| 71.00 | Wash, 10 lks. wide, 2 ft. deep, drains W., heads approximately 3½ chs. E.; asc. 45 ft. over general S. slope. |
| 77.10 | Point selected for the witness cor. of secs. 15, 16, 21, and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 5 ft. base to top of post. |
| | T39S R16E<br>W C<br>S16 ↑ S15<br>S21 \| S22<br>1956 |
| | No suitable accessories available. |
| 80.00 | True point for the cor. of secs. 15, 16, 21, and 22, falls in wash, 10 lks. wide, 2 ft. deep, drains NW., where the monument cannot be perpetuated. |
| | Land, south half rolling; north half broken.<br>Soil, sandy and rocky.<br>Timber, very scattered juniper and pinon; undergrowth, moderate to scattered black brush. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over rough broken land. |
| 11.50 | Wash, 15 lks. wide, 3 ft. deep, drains W., heads approximately 9 chs. S. 50° E.; asc. 40 ft. over SW. slope. |
| 19.00 | Spur, sloping W.; desc. 45 ft. over general N. slope. |
| 27.60 | Wash, 100 lks. wide, 5 ft. deep, drains W., heads approximately 18 chs. E. Continue over broken general SW. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 15 and 16, falls in wash, 100 lks. wide, 20 ft. deep, drains N. 80° W.; asc. 35 ft. over SW. slope. |
| 41.50 | Rocky spur, sloping N. 80° W.; desc. 40 ft. over broken N. slope. |
| 43.00 | Point selected for the witness ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over X cut into solid sandstone, and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked |
| | ¼<br>S16 ↓ S15<br>W C<br>1956 |
| | No suitable accessories available. |
| | Cor. is located on center of sandstone outcrop, 21 ft. diam., 10 ft. high. |
| | Desc. 75 ft. over general NW. slope. |
| 53.15 | Head of wash, drains W. |
| 66.00 | Wash, 20 lks. wide, 3 ft. deep, drains N. 80° W., heads approximately 10 chs. N. 75° E.; asc. 60 ft. over general SW. slope. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T39S R16E<br>S9 \| S10<br>S16 \| S15<br>1956 |
| | No suitable accessories available. |
| | Land, rough and broken.<br>Soil, rocky with numerous sandstone outcroppings.<br>Timber, scattered juniper and pinon; undergrowth, moderate to scattered black brush and cacti. |
| | N. 0° 02; W., bet. secs. 9 and 10. |
| | Over rolling to rough broken land. |

| Chains | |
|---|---|
| | Desc. 30 ft. over general W. slope to witness ¼ sec. cor. |
| 17.40 | S. rim of wash, with vertical ledge, facing N., 50 ft. high, bears E. and W. |
| 22.00 | Wash channel, 30 lks. wide, 8 ft. deep, drains S. 80° W. |
| 26.00 | N. rim of wash, with vertical ledge, facing S., 60 ft. high, bears E. and W. |
| | Thence across nearly level narrow neck of sandstone spur, sloping W. |
| 33.50 | Point selected for the witness ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 1 in. diam., 10 ins. in drill hole in solid sandstone outcrop and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>W C<br>S9 ↑ S10<br>1956 |
| 33.80 | S. rim of Grand Gulch, bears E. and W., with rough broken ledges, facing N. to NW., 300 ft. high. |
| | Thence by triangulation; asc. 130 ft. |
| 40.00 | True point for the ¼ sec. cor. of secs. 9 and 10, falls on steep broken ledges, facing NW. on S. side of Grand Gulch, where the monument cannot be perpetuated. |
| 60.00 | Grand Gulch, drains NW. |
| 62.00 | E. side of gooseneck of Grand Gulch. |
| 64.00 | Grand Gulch, drains N. 20° E. |
| 72.00 | Channel of Grand Gulch, drains W. from SE., at N. point of gooseneck. |
| 75.00 | N. rim of Grand Gulch, bears E. and W., with vertical ledge 50 ft. high, facing S. |
| | Thence by chaining. |
| 80.00 | True point for the cor. of secs. 3, 4, 9, and 10 falls on broken ledges, facing S., where it is impractical to set the monument. |
| | Land, S. half rolling to broken; N. half crosses Grand Gulch, general W. drainage.<br>Soil, rocky.<br>Timber, none; undergrowth, scattered black brush S. half. |
| | N. 0° 08' W., bet. secs. 3 and 4. |
| | Over rolling land; asc. 35 ft. over broken ledges, facing S. |
| 2.50 | Leave broken ledges, bears NE. and SW; continue to asc. 40 ft. over S. slope. |
| 6.50 | Point selected for the witness cor. of secs. 3, 4, 9, and 10. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T39S R16E<br>S4 \| S3<br>S9 \| S10<br>W C<br>1956 |
| | Thence over rolling land, general SW. slope. |
| 20.00 | Wash, 15 lks. wide, 2 ft. deep, drains S. 85° W., heads 2.50 chs. E.; asc. 20 ft. over SW. slope. |
| 33.50 | Low spur, sloping SW.; desc. 20 ft. over general NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked<br><br>¼<br>S4 \| S3<br>1956 |
| | Desc. 90 ft. over NW. slope. |
| 51.10 | Wash, 30 lks. wide, 4 ft. deep, drains W.; asc. 50 ft. over SW. slope. |
| 55.60 | Sandstone spur, sloping W.; desc. 40 ft. over N. slope. |
| 63.00 | Wash, drains N. 80° W.; asc. S. to SW. slope. |
| 67.40 | Wash, 25 lks. wide, 4 ft. deep, drains SW.; asc. 30 ft. over SW. slope. |
| 75.20 | Sandstone spur, sloping SW.; desc. 45 ft. along NW. slope. |
| 79.90 | The cor. of secs. 3, 4, 33, and 34 on the N. bdy. of the township. |
| | Land, rolling.<br>Soil, sandy loam.<br>Timber, scattered juniper; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 1, 2, 35, and 36 on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 1 and 2. |
| | Over low rolling land; asc. 10 ft. over slight NW. slope. |
| 6.00 | Low spur, sloping SW.; desc. 70 ft. over rolling SE. slope. |
| 25.90 | Wash, 30 lks. wide, 3 ft. deep, drains SW.; asc. 25 ft. over slight NW. slope. |
| 33.80 | Top of ascent on low spur, sloping SW. |
| 34.10 | Point selected for the witness ¼ sec. cor. of secs. 1 and 2. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T39S R16E<br>¼<br>S2 ↓ S1<br>W C<br>1956<br><br>No suitable accessories available. |
| 38.70 | Wash, 40 lks. wide, 3 ft. deep, drains SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 1 and 2 falls in small wash, drains SW., where it is impractical to set the monument.<br><br>Asc. 25 ft. over NW. slope. |
| 47.40 | Spur, sloping SW.; thence over rolling land. |
| 55.00 | Wash, 40 lks. wide, 3 ft. deep, drains SW. |
| 70.90 | Low sandy spur, sloping W.; desc. 10 ft. over sandy S. slope. |
| 80.00 | True point for the cor. of secs. 1, 2, 11 and 12 falls in small wash, drains SW., where it is impractical to set the monument.<br><br>Land, rolling.<br>Soil, sandy.<br>Timber, thinly scattered juniper; undergrowth, moderate black brush. |
| | From the cor. of secs. 1, 6, 7, and 12 on the E. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record.<br><br>N. 89° 59' W., bet. secs. 1 and 12.<br><br>Over rolling land; desc. 85 ft. over NW. slope. |
| 39.96 | Point for the ¼ sec. cor. of secs. 1 and 12.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T39S R16E<br>¼ S 1 / S 12<br>1956<br><br>No suitable accessories available. |
| | Continue to desc. 125 ft. over general NW. slope to sec. cor. |
| 40.50 | Wash, 10 lks. wide, 2 ft. deep, drains NW. |
| 78.60 | Point selected for the witness cor. of secs. 1, 2, 11, and 12.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap marked |

| Chains | |
|---|---|
| | T39S R16E<br>WC ← S2 \| S1<br>S11 \| S12<br>1956 |
| | No suitable accessories available. |
| 79.92 | The true point for the cor. of secs. 1, 2, 11, and 12. |
| | Land, rolling, general NW. slope and drainage.<br>Soil, sandy.<br>Timber, scattered juniper; undergrowth, moderate black brush and cacti. |
| | From the true point for secs. 1, 2, 11, and 12. |
| | N. 89° 57' W., bet. secs. 2 and 11. |
| | Over general NW. slope. |
| .95 | Wash, 20 lks. wide, 2 ft. deep, drains NW.; asc. 90 ft. over NE. slope. |
| 18.50 | Enter heavy juniper with moderate pinon; bears NW. and SE. |
| 29.70 | Leave heavy timber, bears NW. and SE. |
| 39.98 | Point for the ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked |
| | T39S R16E<br>¼ S 2<br>S 11<br>1956 |
| | Thence continue to desc. 10 ft. over broken SW. slope. |
| 43.95 | Point selected for the witness point of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | W P<br>S 2<br>S 11<br>1956 |
| 44.00 | E. rim of Grand Gulch, with broken nearly vertical ledge, 250 ft. high, facing NW., bears NE. and SW.; thence by triangulation, desc. 95 ft. |
| 61.00 | Wash channel, drains NW. |
| 68.40 | Sandstone spur, projecting N. |
| 74.20 | Grand Gulch, drains S., 2.50 chs. below junction of washes from NE. and NW. |

Portion of the Subdivision, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| 79.96 | True point for cor. of secs. 2, 3, 10, and 11, not monumented. |
| | Land, broken, general NW. drainage. |
| | Soil, exposed sandstone. |
| | Timber, none; undergrowth, none. |
| | From the true point for the cor. of secs. 2, 3, 34, and 35, on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Over rough broken land; desc. 25 ft. over broken SE. slope. |
| 21.40 | Broken ledge on N. rim of Grand Gulch, bears NE. and SE., facing SE., with broken nearly vertical ledge 300 ft. high. |
| 25.00 | Steep spur, projects SE. |
| | Thence by triangulation; desc. 215 ft. over SE. slope. |
| 32.00 | Grand Gulch, drains SW. from E. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 3 falls on broken ledges, facing N. on S. side of Grand Gulch, where the monument cannot be perpetuated. |
| 41.30 | S. rim of Grand Gulch, bears NE. and SW., facing NW., 275 ft. high. |
| | Thence by chaining; asc. 75 ft. over N. slope. |
| 44.75 | Point selected for the witness ¼ sec. cor. of secs. 2 and 3, on point of sandstone spur, sloping W. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked |
| | T39S R16E<br>W C<br>¼<br>S3 ↑ S2<br>1956 |
| | No suitable accessories available. |
| | Thence desc. 85 ft. over broken S. slope. |
| 51.00 | Thence by triangulation. |
| 57.80 | Grand Gulch, drains SE. from NW. |
| 61.00 | Point of sandstone spur, projecting E. |
| 64.50 | Grand Gulch, drains NW. from E. |
| 68.00 | E. side of base of sandstone dome, 1.50 chs. wide, 30 ft. high, on sandstone spur, projecting W. |
| 73.00 | Grand Gulch, drains SE. from W. |
| 80.00 | True point for the cor. of secs. 2, 3, 10, and 11 falls on broken ledge, facing NE., approximately 200 ft. high, on the N. rim of Grand Gulch, which bears W. and S., where the monument cannot be perpetuated. |

| Chains | |
|---|---|
| | Land, rough and broken .<br>Soil, rocky, with sandstone outcrops.<br>Timber, none; undergrowth, none. |
| | From the true point for the cor. of secs. 2, 3, 10, and 11.<br><br>N. 89° 56' W., bet. secs. 3 and 10.<br><br>Over rough broken ledges, facing NE., by triangulation. |
| 6.00 | Top of broken ledges on W. rim of Grand Gulch, bears W. and SE., facing NE. |
| 10.50 | Right rim of Grand Gulch, with broken ledges nearly vertical, approximately 250 ft. high, facing N., bearing E. and W. |
| 14.90 | W. rim of Grand Gulch, bears NW. and E., thence by chaining, over rolling land, with slight S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>¼ S 3 / S 10<br>1956<br><br>No suitable accessories available.<br><br>Asc. 30 ft. over rolling general S. slope. |
| 75.00 | Head of wash, drains SW. |
| 80.00 | True point for the cor. of secs. 3, 4, 9, and 10.<br><br>Land, broken to rolling, general S. drainage.<br>Soil, rocky sand.<br>Timber, scattered juniper with some pinon; undergrowth, moderate black brush and cacti. |
| | From the true point for the cor. of secs. 15, 16, 21, and 22.<br><br>N. 89° 59' W., bet. secs. 16 and 21.<br><br>By triangulation and traverse, over rough broken land. |
| 4.00 | N. edge, base of sandstone dome, 20 ft. high, 1 ch. wide, 2 chs. long. |
| 12.30 | N. edge, base of sandstone dome, bears S., 60 ft. high, 1.50 chs. wide, 2.50 chs. long. |
| 18.40 | S. edge, base of sandstone dome, 10 ft. high, 75 lks. wide, 1.50 chs. long. |
| 29.20 | S. edge, base of sandstone dome, 10 ft. high, 1 ch. wide, 1 ch. long. |
| 29.70 | Wash, 2.50 chs. wide, 50 ft. deep, drains SW. |

Portion of the Subdivision, T. 39 S., R. 16 E.

| Chains | |
|---|---|
| 34.50 | Broken ledge, facing S., 15 ft. high. |
| 38.30 | Wash, 2 chs. wide, 45 ft. deep, drains S. to SW. |
| 40.00 | True point for the ¼ sec. cor. of secs. 16 and 21, falls on W. edge of above wash, where the monument cannot be perpetuated. |
| 42.60 | Point selected for the witness ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼ S 16 / S 21 → WC<br>1956<br>No suitable accessories available. |
| 47.00 | SE. tip of sandstone outcropping, approximately 40 ft. high. |
| 55.50 | E. edge, branch of Grand Gulch, bears NE. and SE., with broken ledges facing SW., approximately 150 ft. high. |
| 61.00 | Wash channel, drains N. 75° W. |
| 62.50 | W. edge, branch of Grand Gulch, bears NW. and SE., with broken ledges facing NE., approximately 100 ft. high. |
| 69.75 | Sandstone spur, sloping NW. approximately 3 chs. to end. |
| 75.20 | Sandstone ledge, bears N. to NW. and SE., 60 ft. high, facing SW. |
| 80.00 | True point for the cor. of secs. 16, 17, 20, and 21, falls on broken ledge, facing SW., 150 ft. high, on NE. rim of gulch, where the monument cannot be perpetuated. |
| | At a point S. 0° 03' E., 23 lks. dist. |
| | Point selected for the witness cor. of secs. 16, 17, 20, and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>T39S R16 E<br>W C<br>S17 ↑ S16<br>S20 \| S21<br>1956<br>No suitable accessories available. |
| | Land, rough, broken, cut with numerous washes.<br>Soil, rocky sand.<br>Timber, none; undergrowth, none. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Asc. over broken ledge, bears E. and W., facing S., 150 ft. high. |
| 4.00 | Top of ascent; thence by triangulation over broken north slope. |
| 11.20 | Wash channel, branch of Grand Gulch, drains N. 80° W. |
| 18.60 | High point of sandstone spur, projecting W. |

| Chains | |
|---|---|
| 25.50 | Wash channel, branch of Grand Gulch, drains W. from NE. |
| 29.80 | High point, N. rim of wash, bears NE. and SW., with vertical ledge 80 ft. high. |
| 36.10 | S. edge of cove, bears NW. and SE. |
| | Thence by chaining, desc. 20 ft. over NE. slope of small cove. |
| 40.00 | True point for the ¼ sec. cor. of secs. 16 and 17, falls on sharp E. slope of sandstone cove, where it is impractical to set the monument. |
| | Asc. 30 ft. over SE. slope of cove. |
| 43.00 | N. edge of sandstone cove., bears NE. and SW. |
| 44.40 | Point selected for the witness ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br>¼<br>S17 ↓ S16<br>W C<br>1956<br>No suitable accessories available. |
| | Cor. is located at NW. tip of overhanging ledge. |
| | Thence over broken sandstone spurs and washes, sloping and draining SW. |
| 69.70 | W. tip of overhanging sandstone ledge, desc. 40 ft. over general NW. slope. |
| 78.60 | Base of descent on W. edge of ledge, bears NW. and SW., facing W. |
| 79.40 | Point selected for the witness cor. of secs. 8, 9, 16, and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked<br>T39S R16E<br>W C<br>S8 ↑ S9<br>S17 \| S16<br>1956<br>No suitable accessories available. |
| 79.70 | Base of ledge, bears NW. and SE., facing SW. |
| | Asc. 10 ft. over SW. slope. |
| 80.00 | True point for the cor. of secs. 8, 9, 16 and 17, falls on steep SW. slope of ledge, where it is impractical to set the monument. |
| | Land, rough, broken and cut with numerous sandstone spurs and washes.<br>Soil, rocky sand.<br>Timber, none; undergrowth, none. |

| Chains | |
|---|---|
| | From the cor. of secs. 9, 10, 15, and 16. |
| | N. 89° 58' W., bet. secs. 9 and 16. |
| | Over rolling land, with exposed sandstone bedrock. |
| | Desc. 160 ft. over general SW. slope and ledges. |
| 25.00 | Wash, 90 lks. wide, 20 ft. deep, drains SW.; asc. 110 ft. over broken SE. sandstone slope. |
| 31.50 | E. edge of sandstone ledge, bears NE. and SW., facing SE.; asc. 60 ft. over SE. face. |
| 36.50 | High point of ledge; desc. 55 ft. over broken W. slope of ledge. |
| 40.01 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 5 ft. base to top of post, with brass cap marked |
| | ¼ S 9 / S 16 |
| | 1956 |
| | No suitable accessories available. |
| 43.20 | Desc. over broken sandstone ledge, bears NE. and SW., facing NW., 15 ft. high. |
| 52.00 | Same ledge, bears NW. and SE., facing NE., 25 ft. high. |
| 57.90 | Same ledge, bears NE. and SW., facing NW., 30 ft. high; desc. 75 ft. over broken W. slope. |
| 68.00 | E. rim of cove, bears N. and S., with vertical ledge, 100 ft. high, facing W. |
| 77.20 | W. rim of cove, bears NW. and SE., with vertical ledge, 130 ft. high, facing NE. |
| 78.30 | Sandstone ledge, bears NW. and SE.; desc. 30 ft. over steep SW. slope of ledge. |
| 80.02 | True point for the cor. of secs. 8, 9, 16, and 17. |
| | Land, rough and broken, general SW. drainage. Soil, sandy, with exposed sandstone bedrock. Timber, none; undergrowth, none. |
| | From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the township, which is marked by an iron post, 2 ins. diam., firmly set, marked and witnessed as described in the official record. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Over rough broken land. |
| 31.95 | S. rim of small canyon, bears NE. and SW., with broken nearly vertical ledge, facing NW. approximately 100 ft. high. |
| 40.00 | True point for the ¼ sec. cor. of secs. 32 and 33, falls in wash channel of small canyon, drains SW., where it is impractical to set the monument. |

| Chains | |
|---|---|
| 44.65 | N. rim of small canyon, bears NE. and SW., with broken nearly vertical ledge approximately 90 ft. high. |
| 47.80 | Point selected for the witness ¼ sec. cor. of secs. 32 and 33, 50 ft. above sec. cor.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼<br>S32 ↓ S33<br>W C<br>1956<br><br>No suitable accessories available. |
| 68.50 | S. rim of wash, with vertical ledge, 40 ft. high, bears E. and W. |
| 69.20 | Wash channel, drains W. |
| 69.80 | N. rim of wash, with vertical ledge, 30 ft. high, bears E. and W.; asc. 70 ft. over general S. sandstone slope. |
| 80.00 | Point for the cor. of secs. 28, 29, 32, and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone bedrock, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>T39S R16E<br>S29 \| S28<br>S32 \| S33<br>1956<br><br>No suitable accessories available.<br><br>Land, rough and broken, general SW. drainage.<br>Soil, sandy, with exposed sandstone bedrock.<br>Timber, thinly scattered juniper; undergrowth, scattered black brush and cacti. |

Beginning at the true point for the cor. of secs. 5, 6, 31, and 32 on the S. bdy. of the township, which is witnessed S. 89° 59' E., 0.06 chs. dist., by an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record.

N. 0° 03' W., bet. secs. 31 and 32.

Over rough broken land; desc. 25 ft. over general NW. slope.

| Chains | |
|---|---|
| 8.10 | S. rim of wash, with broken ledge, 70 ft. high, facing NW., bears NE. and SW. |
| 13.10 | Wash channel, drains SW. |
| 15.00 | N. rim of wash, with broken ledge, 85 ft. high, facing SE., bears NE. and SW.; asc. 130 ft. over broken general SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top of post, with brass cap marked |

| Chains | |
|---|---|
| | ¼<br>S31 \| S32<br>1956<br><br>No suitable accessories available. |
| | Thence over rolling to broken land, general SW. slope. |
| 75.30 | Wash, drains SW. |
| 80.00 | Point for the cor. of secs. 29, 30, 31, and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap marked<br><br>T39S R16E<br>S30 \| S29<br>S31 \| S32<br>1956<br><br>No suitable accessories available.<br><br>Land, rough and broken, general SW. drainage.<br>Soil, sandy, with exposed sandstone bedrock.<br>Timber, thinly scattered juniper; undergrowth, scattered black brush and cacti. |
| | From the cor. of secs. 28, 29, 32, and 33.<br><br>West, bet. secs. 29 and 32.<br><br>Over rough broken land; desc. 140 ft. over general NW. slope. |
| 13.05 | Bottom of wash, 30 lks. wide, 10 ft. deep, drains SW.; asc. 125 ft. over SE. slope. |
| 27.35 | Spur, slopes SW. |
| 39.90 | Wash, drains SW.; asc. SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 29 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a X cut into solid sandstone bedrock, and supported in a mound of stone, 4 ft. base to top of post, with brass cap marked<br><br>¼ S 29 / S 32<br>1956<br><br>No suitable accessories available. |
| 46.10 | Top of ascent on low sandstone spur, sloping SW.; desc. 95 ft. over broken NW. slope. |
| 70.50 | Wash, 1 ch. wide, 5 ft. deep, drains SW.; asc. 10 ft. over SE. slope. |
| 80.00 | The cor. of secs. 29, 30, 31, and 32.<br><br>Land, rough and broken, general SW. drainage.<br>Soil, sandy, with exposed sandstone bedrock.<br>Timber, moderate to scattered juniper; undergrowth, scattered black brush and cacti. |

Chains

## General Description

Geologically T. 39 S., R. 16 E. is flat, the strata being sedimentary sandstone, which show little evidence of disturbance, for the bedding planes remain in a near horizontal position. Weathering of the sandstone formations by rapid run-off has produced deep straight sided washes and canyons. The general elevation of the township ranges from about 4,500 to 5,600 feet above sea level. This difference in elevation is a result of the drainage system, with Grand Gulch and its tributaries meadering SW. across the township, from the N. boundary near the cor. of secs. 2, 3, 34, and 35 to the S. boundary near the ¼ sec. cor. of secs. 6 and 31. The tributaries to the W. of Grand Gulch drain SE., while those to the E. drain W. and SW. The lower elevations are found in the W. and SW. portion of the township.

The residual sandy soil varies in depth and quality throughout the township, the east half and in the area of secs. 5, 6, 7, and 18 the soil is deep, with the exception of some sandstone outcroppings, and produces a moderate to scattered growth of juniper, pinon, black brush and gamma grass. The heavier growth occuring on the deeper soils. From the areas of deep soil towards Grand Gulch the soil becomes progressively shallower, until in the immediate vicinity of Grand Gulch and its tributaries all the soil has been eroded away exposing bedrock. In the bottom of Grand Gulch and some of its larger tributaries is found soil of a near loam quality. These soils produce a heavy growth of artemisia, cottonwoods and various species of willow and grasses. While these soils are of high quality their extent is so limited as to add little if any economic importance to the township. In the bottom of Grand Gulch approximately 30 chs. NE. of the ¼ sec. cor. of secs. 2 and 3, the only permanent source of water, a spring, is located.

The township was reached by way of a bulldozed road, which bears S. to SW. from State Highway 95, at a junction approximately 32 miles W. of Blanding, Utah. This road is followed approximately 30 miles, taking all right forks to the end of the road, thence W. across country about 10 miles to the E. boundary of the township near the sec. cor. of secs. 13, 18, 19, and 24. This road is now under construction and when completed will be a hard surfaced road.

There are no permanent settlements within the township. Utilization of the land is in the form of winter grazing of cattle.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Alburn D. Griffin | Principal Assistant |
| Jim H. Tyer | Note-keeper |
| Maurice L. Hinton | Frontchainman |
| Darwin P. Russell | Cornerman |
| Dell (NMN) Cazier | Flagman |
| William E. Brickey | Axeman |

16—53765-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13 day of May, 19[illegible] I have surveyed The North and West Boundaries and Portion of the Subdivision of T. 39 S., R. 16 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah

Phil D. Smith

Phil D. Smith, Cartographic Surve

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* JUL 23 1957, *19*

The foregoing field notes of the survey of North and west boundaries and portion of the subdivision of township 39 south, range 16 east.

executed by Phil D. Smith

having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~ ~~, is a true~~ copy of the original field notes.

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53505-2

4-079
(April 1922)

ORIGINAL

350

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
BUREAU OF LAND MANAGEMENT
D

# FIELD NOTES

OF THE SURVEY OF A

PORTION OF THE SUBDIVISION

AND

MEANDERS

T. 40 S., R. 11 E.

*Of the* SALT LAKE *Meridian,*

*n the State of* UTAH

EXECUTED BY

Chas. F. Moore, Surveyor

*Under special instructions dated* Sept. 25, *19*23, *which provided*

*or the surveys included under Group No.* 155, *bearing the approval of the*

*Commissioner of the General Land Office under date of* October 12, 1923

supplemental
*and/assignment instructions dated* Sept. 14, *19*25.

*Survey commenced* April 1, *19*26

*Survey completed* April 5, *19*26

U. S. GOVERNMENT PRINTING OFFICE 6—151

51

# INDEX DIAGRAM.

*Township* 40 South, *Range* 11 East

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

2 2 1

6—151

226

SUBDIVISION OF T. 40 S., R. 11 E.

| Chains | |
|---|---|
| | Survey was commenced April 1, 1926, and executed with Buff and Buff light mountain transit No. 9220 used by Chas. F. Moore, Surveyor, approved for use on this survey by the District Cadastral Engineer for District No. 6, conditional upon satisfactory field tests, in supplemental assignment instructions dated September 14, 1925.<br>The survey of this portion of township 40 south, range 11 east, was made in conjunction with the survey of T. 41 S. R. 11 E., same group, and for full description and test of the instrument, see tests given in the official field notes of the survey of T. 41 S., R. 11 E. |

SUBDIVISION OF T. 40 S., R. 11 E.

From the witness standard cor. of secs. 33 and 34, which is west, 46 lks. from the true point for the cor. and is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.

N. 0° 02' W., on offset line bet. secs. 33 and 34.

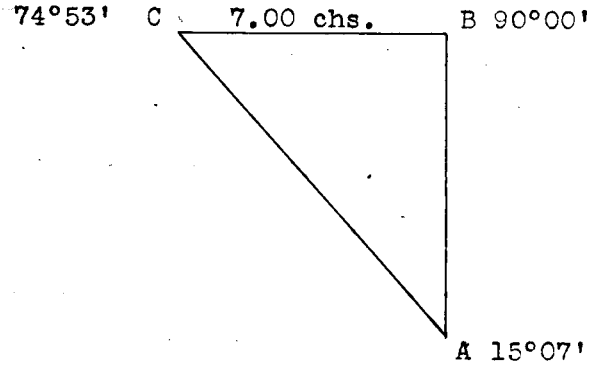
Over rough and broken bench land, through medium dense undergrowth.

0.43 East, 46 lks. dist. to true line.

Thence N. 0° 02' W., on true line, on top of sandstone rim approximately 400 ft. high, bearing NW. and SE.

The line to the north descends over sandstone rim over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

Erect flag "A" at this point and set flag "B" to the north on line; also set flag "C" northwesterly from "A". The mean distance of the base line "BC" is 7.00 chs. with no difference in measurement by two sets of chainmen. The angles were determined by three repetitions. The vertical angle from "A" to "B" is minus 20° 15'.




Distance on line to point "A" ----------0.43 chs.
Distance by triangulation "A" to "B"----------25.91 chs.
Total distance on line to "B" ---------- 26.34 chs.

26.34 Point "B" of triangulation.

26.70 On top of sandstone rim, approximately 200 ft. high, directly above the mean high water mark on the left bank of the San Juan River, course NW.

Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock and surrounded by mound of stone to the

Chains

top, for the meander cor. of frac. secs. 33 and 34, with brass cap mkd.

MC

S 33 | S 34
T40S | R11E

1926

No other suitable accessories available.

The line was terminated at this point.

Land, broken and rough bench.

Soil, loose sandy loam and exposed surface rock; 4th rate.

Undergrowth, black brush.

Poor grazing.

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MEANDERS, T. 40 S., R. 11 E.

Meanders of the left bank of the San Juan River, downstream.

From the stan. meander cor. of frac. sec. 34, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record.

Thence with meanders in sec. 34.

Along rocky shore line, through scattering undergrowth.

N. 30° 30' W., 19.85 chs.

N. 71° 24' W., 30.41 chs. At beginning of this course commence ascent along top of sandstone rim, directly above water edge. At end of course intersect the meander cor. for frac. secs. 33 and 34.

Land, sloping surface rock and river bottom.

Soil, loose sandy loam with exposed surface rock; 4th rate.

Undergrowth, rabbit brush and willows.

Poor grazing.

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Thence through sec . 33.

Over exposed surface rock, on top of sandstone rim, averaging from 200 ft. to 50 ft. high, directly above mean high water mark.

N. 47° 10' W., 8.05 chs.

N. 50° 45' W., 5.00 chs.

N. 62° 00' W., 5.90 chs.

N. 54° 30' W., 11.70 chs.

N. 68° 00' W., 5.80 chs.

MEANDERS, T. 40 S., R. 11 E.

N. 85° 45' W., 10.00 chs.

S. 79° 15' W., 6.10 chs.

S. 62° 30' W., 12.10 chs.

S. 35° 00' W., 22.20 chs.

S. 29° 00' W., 9.70 chs.

S. 22° 15' W., 10.10 chs.

S. 12° 15' W., 5.29 chs. Intersect the stan. meander cor. for frac. sec. 33, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record.

Land, sloping surface rock.

Soil, exposed surface rock; 4th rate.

GENERAL DESCRIPTION

The land embraced in the portion of T. 40 S., R. 11 E., under this survey lies in the San Juan River Canyon and along the San Juan River.

The canyon slopes are covered with a medium to scattering growth of black brush, mountain rush and shadscale, with some willow and rabbit brush along the river. A scattering growth of juniper and pinon will be found on portions of the canyon slopes. This timber has no commercial value except for firewood.

The soil is a loose sandy and gravelly loam with much exposed surface sandstone; 3rd and 4th rate.

There were no settlers in this portion of the township.

The land is used by the Navajo Indians for grazing livestock.

No oil, coal or other minerals were noted during the survey.

Magnetic declination was not taken on account of defective needles.

4—680
(August, 1926)

# FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Sidney R. Reese | Chainman |
| Kimball D. Williams | Chainman |
| Johnie Evers | Chainman |
| Chas. A. Sleeper | Chainman |
| George Hurlburt | Cornerman |
| Henry M. Peacock | Flagman |
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357

# CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, Chas. F. Moore, ~~U. S.~~ Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 25th day of September, 1923 I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of subdivisions and the meanders of the San Juan River in T. 40 S., R. 11 E. of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Certified to at: Salt Lake City, Utah March 7 1933

Chas. F. Moore
~~U. S.~~ Surveyor.

## APPROVAL

Chief Cadastral Engineer,
OFFICE OF ~~U.S. SUPERVISOR OF SURVEYS~~

Denver Colo, December 2, 1946

The foregoing field notes of the survey of a portion of the subdivisions and the meanders of the San Juan River in T. 40 S., R. 11 E.

executed by Chas. F. Moore, ~~U.S.~~ Surveyor under his special instructions dated Sept. 25, 1923, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Earl G. Harrington
~~Chief Supervisor of Surveys~~
Acting Assistant Chief Cadastral Engineer

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~

~~has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Original

# FIELD NOTES

of the Survey

of

The Eighth Standard Parallel South

in

Range 10 East

and

the North, West and East Boundaries

and

a Portion of the Subdivision

and

Meanders of the Colorado River through Sec. 2

of

Township 40 South, Range 10 East

*Of the* Salt Lake *Meridian,*

*n the State of* Utah

EXECUTED BY

Boyd S. Owens — Cartographic Survey Aid

Vern E. Lane — Cadastral Surveyor (Chief of Party)

*nder special instructions dated* August 27, *19* 56, *which provided*

*r the surveys included under Group No.* 404, *approved* November 7, 1956

*nd assignment instructions dated* July 30, *19* 57

*Survey commenced* August 7, *19* 57

*Survey completed* September 6, *19* 57

U. S. GOVERNMENT PRINTING OFFICE 16—66770-1

# INDEX DIAGRAM

*Township* 40 South, *Range* 10 East

| | | | | | |
|---|---|---|---|---|---|
| 20<br>15 6 | 19<br>5 | 18<br>4 | 17<br>26 3 | 17<br>27 2 28<br>27 | 16<br>1 9 |
| 13 7 | 8 | 9 | 25 10 | 11 | 12 9 |
| 13 18 | 17 | 31<br>30 16<br>29 | 24 15 | 14 | 13 8 |
| 12 19 | 20 | 21 | 23 22 | 23 | 24 7 |
| 11 30 | 29 | 28 | 23 27 | 26 | 25 6 |
| 10 31<br>5 | 33<br>32 28 31<br>4 | 33<br>3 | 22 34<br>2 | 35<br>2 | 21<br>21 36 6<br>1 |

10—00770-1

The meanders of the Colorado River through sec. 2 on pages 33 and 34.

## Township 40 South, Range 10 East

Chains

The following field notes are those of the survey of the Eighth Standard Parallel South through Range 10 East, east boundary, north boundary, west boundary and a portion of the subdivision of T. 40 S. R. 10 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered State school sections.

This survey was executed with a W. and L. E. Gurley transit No. 541325, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of the survey.

The directions of the lines of the survey were determined by true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation and supplemented by numerous altitude observations on the sun taken throughout the progress of the survey.

Measurements herein contained were made with a narrow steel tape 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show the horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distance to topography on lines run by traverse or triangulation are approximate as scaled from U.S.G.S. topographic sheets. The details of such traverse or triangulation have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established were calculated to be at the position they would occupy if the entire township were subdivided.

The geographic position of the SE. cor. of T. 40 S., R. 10 E. is at latitude 37° 15' 31.9" N. and longitude 110° 44' 43.99" W., as adjusted from traverses to U.S.G.S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° E.

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### Survey of the Eighth Standard Parallel South through R. 10 E.

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Beginning at the standard cor. of T. 40 S., Rs 10 and 11 E., mkd. by a 3 in. iron post conforming to the record.

Thence

West, along the S. bdy. of sec. 36.

Over rolling desert land, through heavy black brush, and widely scattered juniper; asc. 30 ft.

38.50 Rim of mesa, bears irregularly S. 45° W. and N. 45° E.; desc. 30 ft. over broken NW. slope.

| Chains | |
|---|---|
| 40.00 | Point for the standard ¼ sec. cor. of sec. 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | SC<br>T40S R10E<br>¼ S36<br>1957 |
| | Desc. 190 ft. over broken NW. slope. |
| 68.30 | Draw, drains N. 45° E.; asc. 40 ft. over gradual SE. slope, through heavy black brush and scattered juniper. |
| 80.00 | Point for the standard cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with small collar of rock around post, with brass cap mkd. |
| | SC<br>T40S R10E<br>S35\|S36<br>1957 |
| | Land, rolling and broken.<br>Soil, sand with some exposed sandstone.<br>Timber, widely scattered juniper.<br>Undergrowth, heavy black brush, scattered grass and sage. |
| | West, along the S. bdy. of sec. 35. |
| | Over rolling desert land, through heavy blackbrush; asc. 80 ft. over general SE. slope. |
| 40.00 | Point for the standard ¼ sec. cor. of sec. 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, with a collar of stone around post, with brass cap mkd. |
| | SC<br>T40S R10E<br>¼ S35<br>1957 |
| | Asc. 30 ft. over rolling desert land, through heavy black brush. |
| 80.00 | Point for the standard cor. of secs. 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground with a small collar of stone around post, with brass cap mkd. |
| | SC<br>T40S R10E<br>S34\|S35<br>1957 |
| | Land, rolling desert.<br>Soil, sandy, Timber, none.<br>Undergrowth, heavy black brush, light sage and grass. |
| | West, along the S. bdy. of sec. 34. |

Survey of the Eighth Standard Parallel South, Through R. 10 E.

| Chains | |
|---|---|
| | Over rolling desert land, through heavy black brush and widely scattered juniper. |
| | Asc. 60 ft. |
| 40.00 | Point for the standard ¼ sec. cor. of sec. 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd. |
| | SC<br>T40S R10E<br>¼ S34<br>1957 |
| | Deposit a sandstone 8x10x4 ins., mkd. with a cross (X) alongside post. |
| | Asc. 90 ft. over rolling land, general E. slope. |
| 57.00 | Top of ascent on low spur projecting S.; desc. 30 ft. over gentle W. slope. |
| 80.00 | Point for the standard cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd. |
| | SC<br>T40S R10E<br>S33\|S34<br>1957 |
| | Land, rolling.<br>Soil, sandy. Timber, widely scattered juniper.<br>Undergrowth, heavy black brush, scattered sage, grass and Brigham tea. |
| | West, along the S. bdy. of sec. 33. |
| | Over rolling and broken land. |
| | Desc. 20 ft. over gentle W. slope. |
| 8.00 | Slope changes to NW.; desc. 190 ft. over broken and exposed sandstone. |
| 40.00 | True point for the standard ¼ sec. cor. of sec. 33 falls in the bottom of wash, 1 ft. deep, 20 lks. wide, draining irregularly S. 45° W., where the monument cannot be perpetuated. |
| 41.00 | Point selected for the witness standard ¼ sec. cor. of sec. 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | SC<br>T40S R10E<br>¼ S33 W<br>C<br>1957 |
| | Asc. 120 ft. over general E. slope of exposed sandstone dome. |
| 56.80 | Top of dome; desc. 130 ft. over exposed sandstone sloping W. |
| 71.10 | Bottom of slope in draw draining SW.; asc. 60 ft. over SE. sandstone slope. |

| Chains | |
|---|---|
| 75.80 | Top of dome; thence along the top. |
| 80.00 | Point for the standard cor. of secs. 32 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>SC<br>T40S R10E<br>S32\|S33<br>1957<br><br>Land, rolling sandstone domes.<br>Soil, sandy and exposed sandstone. Timber, none.<br>Undergrowth, scattered groups of dense black brush. |
| | West, along the S. bdy. of sec. 32.<br><br>Over a series of exposed sandstone domes.<br><br>Desc. 140 ft. over a series of exposed sandstone domes. |
| 40.00 | Point for the standard ¼ sec. cor. of sec. 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>SC<br>T40S R10E<br>¼ S32<br>1957<br><br>Cor. is set at base of sandstone knob; asc. 80 ft. over E. slope of sandstone dome. |
| 44.60 | East rim of canyon, bears N. 45° E. and S. 45° W., thence by tri.<br><br>Desc. about 480 ft. over broken ledges facing N. 45° W. |
| 55.00 | Bottom of canyon, drains S. 45° W.; asc. about 320 ft. over ledges and slope facing SE. |
| 58.00 | West rim of canyon, bears N. 45° E. and S. 45° W.; desc. about 60 ft. over series of sandstone knobs. |
| 77.00 | Point selected for the witness standard cor. of secs. 31 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>SC<br>T40S R10E<br>W S31\|S32<br>C 1957 |
| 80.00 | True point for the standard cor. of secs. 31 and 32., falls on sandsto point projecting S. 45° W. where monument cannot be perpetuated.<br><br>Land, rolling and broken.<br>Soil, sandy and exposed sandstone. Timber, none.<br>Undergrowth, scattered groups of heavy black brush. |

| Chains | |
|---|---|
| | West, along the S. bdy. of sec. 31. |
| | Over broken ledges and rolling sandstone. |
| 6.00 | E. rim of canyon, bears N. and S. By tri.; desc. about 280 ft. over ledge and steep slope facing and sloping W. |
| 10.00 | Bottom of canyon, drains S.; asc. about 440 ft. over slope and ledges sloping and facing E. |
| 22.70 | Top of ascent on W. rim of canyon, bears S. 20° W. and N. 20° E., thence by chaining; desc. 110 ft. over rolling and exposed sandstone. |
| 40.00 | Point for the standard ¼ sec. cor. of sec. 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | SC<br>T40S R10E<br>¼ S31<br>1957 |
| | Deposit a sandstone, 10x8x4 ins., mkd. with a cross (X). |
| | Desc. 10 ft. over gentle W. slope. |
| 44.00 | Wash, 2 ft. deep, 30 lks. wide, drains southerly; asc. 10 ft. over general E. slope. |
| 65.00 | Top of ascent; desc. 60 ft. over gentle W. slope. |
| 80.00 | Point for the standard cor. of T. 40½ S., R. 9 E. and T. 40 S., R. 10 E.<br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | SC<br>T40½S T40S<br>R9E R10E<br>S36 \| S31<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone. Timber, none.<br>Undergrowth, scattered groups of black brush. |
| | East Boundary of T. 40 S., R. 10 E. |
| | North, bet. secs. 31 and 36. |
| | Desc. 20 ft. over nearly level land, through heavy black brush and thinly scattered juniper. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid sandstone, and in a mound of earth to top, with brass cap mkd. |

East Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | From the standard cor. of T. 40 S., Rs. 10 and 11 E. |
| | North, bet. secs. 31 and 36. |
| | Desc. 20 ft. over nearly level land, through heavy black brush and thinly scattered juniper. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid sandstone, and in a mound of earth to top, with brass cap mk |
| | T40S<br>R10E R11E<br>¼<br>S36\|S31<br>1957 |
| | Deposit a sandstone 8x2x2 ins., mkd. with a cross (X) at base of post |
| | No other accessories available. |
| | Desc. 130 ft. over NW. slope. |
| 70.30 | Draw, drains N. 45° E.; asc. 45 ft. over SE. slope. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut i solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S<br>R10E R11E<br>S25\|S30<br>S36\|S31<br>1957 |
| | Land, nearly level to rolling.<br>Soil, sandy. Timber, thinly scattered juniper.<br>Undergrowth, heavy black brush, scattered Brigham tea and grass. |
| | North, bet. secs. 25 and 30. |
| | Over rolling to nearly level land, through thinly scattered juniper; asc. 40 ft. over SE. slope. |
| 9.10 | Top of slope, sloping NE.; asc. 40 ft. over S. slope of spur. |
| 23.10 | Spur, slopes N. 20° E.; desc. 30 ft. over rolling land. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone to top, with brass cap mkd. |
| | T40S<br>R10E R11E<br>¼<br>S25\|S30<br>1957 |

East Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | Desc. 80 ft. along rolling NW. slope. |
| 52.50 | Land becomes broken; by tri. desc. about 240 ft. over broken NW. slope. |
| 64.00 | S. rim of canyon, bears NE. and SW.; desc. about 560 ft. over NW. facing ledges. |
| 80.00 | True point for the cor. of secs. 19, 24, 25 and 30, falls in the bottom of an inaccessible canyon, draining NE.<br><br>Land, rolling and ledgy sandstone.<br>Soil, sandy, with exposed sandstone.<br>Timber, widely scattered juniper and groves of cottonwoods in the canyon bottom.<br>Undergrowth, scattered black brush and Brigham tea. |
| | North, bet. secs. 19 and 24.<br><br>Over rolling and ledgy exposed sandstone.<br><br>Asc. about 480 ft. over SE. facing ledges. |
| 12.70 | Spur, projecting NE.<br><br>Point selected for the witness cor. of secs. 19, 24, 25 and 30.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T40S<br>R10E R11E<br>S24 \| S19<br>S25 ↓ S30<br>W C<br>1957<br><br>Desc. about 400 ft. over NW. facing ledges. |
| 22.50 | Wash in bottom of canyon, drains NE.; asc. about 400 ft. over SE. facing ledges. |
| 40.00 | True point for the ¼ sec. cor. of secs. 19 and 24 falls on face of SE. facing ledge, where it is impractical to set the monument.<br><br>Cont. to asc. about 160 ft. over SE. facing ledges. |
| 47.00 | Spur, projecting E.<br><br>Point selected for the witness ¼ sec. cor. of secs. 19 and 24.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T40S<br>R10E R11E<br>¼<br>S24 ↓ S19<br>W C<br>1957<br><br>Desc. about 80 ft. over NE. facing ledges. |
| 62.00 | Cove, drains E.; asc. about 80 ft. over SE. facing ledges. |
| 74.30 | Sandstone knob, on spur projecting NE.; desc. about 60 ft. over rolling N. slope. |

| Chains | |
|---|---|
| 76.20 | Point selected for the witness cor. of secs. 13, 18, 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>WC<br>R10E R11E<br>S13 S18<br>S24 S19<br>1957 |
| | Witness cor. is set in sandy depression. |
| | Desc. about 40 ft. over steep N. slope. |
| 80.00 | True point for the cor. of secs. 13, 18, 19 and 24, falls in small wash, near head draining NE. where the monument cannot be perpetuated |
| | Land, broken and rolling.<br>Soil, sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered groups of black brush, mountain rush and grass |
| | North bet. secs. 13 and 18. |
| | Over rolling and ledgy sandstone. |
| | Asc. 160 ft. along steep SE. slope. |
| 10.00 | Spur, projects E.; desc. about 240 ft. over steep N. slope. |
| 19.00 | Small wash, near head, drains E.; asc. 160 ft. over steep S. slope. |
| 34.00 | Spur, projects E.; desc. about 160 ft. over steep N. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 13 and 18, falls on steep N. slope, where it is impractical to set the monument. |
| | Desc. about 20 ft. over steep N. slope. |
| 41.40 | Point selected for the witness ¼ sec. cor. of secs. 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E R11E<br>¼<br>S13 S18<br>WC<br>1957 |
| | Desc. 240 ft. over broken N. slope. |
| 70.00 | Canyon rim, bears irregularly NW. and SE.; desc. about 200 ft. over N. facing ledge. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18 falls in the bottom of inaccessible canyon draining N. and was not monumented. |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, cottonwoods in the canyon bottom.<br>Undergrowth, scattered black brush, mountain rush and grass. |

East Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | North, bet. secs. 7 and 12. |
| | Over rolling and ledgy sandstone. |
| | Asc. about 80 ft. over steep SW. slope. |
| 6.50 | Spur, projects W.; desc. about 80 ft. over NW. slope. |
| 28.00 | Base of ledge, bears NW. and SE.; asc. about 400 ft. over SW. facing ledge. |
| 34.00 | Rim of canyon, bears irregularly NW. and SE., thence by chaining over rolling exposed sandstone. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E R11E<br>S12\|S 7<br>1957 |
| | Asc. 50 ft. over rolling exposed sandstone. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd. |
| | T40S<br>R10E R11E<br>S 1\|S 6<br>S12\|S 7<br>1957 |
| | Deposit a sandstone, 6x4x2 ins., mkd. with a cross (X) at base of post. |
| | Land, rolling and ledgy.<br>Soil, sandy with exposed sandstone.<br>Timber, none; undergrowth, medium black brush on bench. |
| | North, bet. secs. 1 and 6. |
| | Over rolling and broken land. |
| | Asc. 70 ft. along SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E R11E<br>¼<br>S1\|S6<br>1957 |
| | Asc. 180 ft. over series of sandstone knobs. |

East Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| 54.70 | E. edge of small mesa; desc. 240 ft. over series of sandstone knobs on N. slope. |
| 70.00 | Canyon rim, bears N. 30° W. and S. 30° E.; by tri. desc. about 640 ft. over precipitous slope and ledge facing NE. |
| 79.43 | Mean high water level on the left bank of the Colorado River, course N. 40° W. |
| | Point for the meander cor. of secs. 1 and 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, 3 ft. base, with brass cap mkd. |
| | MC<br>S 1 \| S 6<br>R10E R11E<br>T40S<br>1957 |
| 80.00 | Point for the cor. of Ts. 39 and 40 S., Rs. 10 and 11 E. is in the Colorado River. |
| | Land, ledgy and rolling sandstone.<br>Soil, sandy, with exposed sandstone.<br>Timber, none; undergrowth, black brush on benches and tamarisk along river bottom. |

West Boundary, T. 40 S., R. 10 E.

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|---|---|
| | From the standard cor. of Ts. 40½ S., R. 9½ E., and T. 40 S., R. 10 E. |
| | North, bet. secs. 31 and 36. |
| | Over broken ledgy sandstone. |
| | Asc. 80 ft. over a series of sandstone knobs. |
| 11.80 | S. rim of canyon, bears S. 60° W. and N. 60° E.; by tri. desc. about 480 ft. over ledges and precipitous slope facing N. |
| 24.00 | Wash, in bottom of canyon, drains W.; asc. about 240 ft. over S. facing ledge. |
| 26.00 | End of tri. on N. rim of canyon, bears E. and W., thence over broken W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40½S T40S<br>R 9E R10E<br>¼<br>S36 \| S31<br>1957 |
| | Cont. along broken W. slope. |
| 52.00 | Base of spur; asc. 160 ft. over SW. facing ledge. |
| 54.00 | Spur, projects NW. about 20 lks. to end; desc. 160 ft. over NE. facing ledge. |

| Chains | |
|---|---|
| 56.00 | Base of ledge, bears NW. and SE.; desc. 80 ft. over steep N. slope. |
| 58.00 | Wash, near head, drains W.; asc. 80 ft. over steep S. slope. |
| 70.00 | Base of ledge, bears E. and W.; asc. 320 ft. over S. face. |
| 73.30 | Spur, projecting W. |
| | Point selected for the witness cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |

T40½S T40S
R 9E R10E
W C
S25 S30
S36 S31
1957

| | |
|---|---|
| | Desc. 80 ft. over steep N. slope. |
| 80.00 | True point for the cor. of secs. 25, 30, 31 and 36, falls on steep N. sloping slick rock, where it is impractical to set the monument. |
| | Land, rolling and ledgy sandstone. |
| | Soil, sandy, with exposed sandstone. |
| | Timber, none; undergrowth, scattered black brush, shadscale and grass. |

| | |
|---|---|
| | North, bet. secs. 25 and 30. |
| | Over broken land. |
| | By tri. desc. about 240 ft. over N. facing ledge. |
| 4.00 | Base of ledge, bears E. and W., thence over nearly level bottom of cove, draining W. |
| 13.00 | Base of ledge, bears E. and W.; asc. about 480 ft. over S. face. |
| 18.00 | Rim, bears E. and W., thence by chaining asc. 100 ft. over a series of sandstone knobs. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd. |

T40½S T40S
R 9E R10E
¼
S25 S30
1957

| | |
|---|---|
| | Deposit a sandstone, 10x8x4 ins., mkd. with a cross (X) alongside post. |
| | Desc. 140 ft. over series of sandstone knobs. |
| 79.90 | S. rim of Glen Canyon; desc. 10 ft. over N. slope. |
| 80.00 | Point for the cor. of secs. 19 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S<br>R10E<br>S 19<br>S 30<br>1957 |
| | Land, rolling and ledgy.<br>Soil, sandy with exposed sandstone.<br>Timber, none; undergrowth, scattered groups of black brush and grass. |
| | North, along the W. bdy. of sec. 19. |
| | Over ledges and precipitous slopes. |
| | By tri. desc. about 790 ft. over N. facing ledge and precipitous slope |
| 12.82 | Mean high water level on the left bank of the Colorado River, course S. 80° W. |
| | Point for the meander cor. of sec. 19. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, and in a collar of stone, with brass cap mkd. |
| | MC<br>S 19<br>R10E<br>T40S<br>1957 |
| | Thence across the Colorado River, course S. 80° W. |
| 25.00 | Mean high water level on the right bank of the Colorado River, course S. 80° W. |
| | True point for the meander cor. of sec. 19, falls on steep S. sloping slick rock, where it is impractical to set the monument. |
| | Asc. about 320 ft. over ledge and precipitous S. slope. |
| 28.30 | Point selected for the witness meander cor. of sec. 19. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E<br>S 19<br>WMC<br>1957 |
| | Asc. about 70 ft. over S. sloping slick rock. |
| 40.00 | Point for the ¼ sec. cor. of sec. 19. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E<br>¼<br>S 19<br>1957 |

West Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | Asc. about 240 ft. over S. sloping slick rock. |
| 60.00 | Base of ledge, bears N. 60° E. and S. 60° W.; asc. about 240 ft. over face. |
| 70.20 | N. rim of Glen Canyon, bears N. 60° E. and S. 60° W.; by chaining asc. 160 ft. over S. sloping slick rock. |
| 80.00 | Point for the cor. of secs. 18 and 19. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E<br>\|S 18<br>\|S19<br>1957 |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, none; undergrowth, scattered black brush and grass. |
| | North, along the W. bdy. of sec. 18. |
| | Over rolling and ledgy sandstone. |
| | Asc. 180 ft. over series of broken domes on a SW. slope. |
| 20.30 | Top of ascent on sandstone dome; desc. 140 ft. over broken NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of sec. 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E<br>¼<br>\|S 18<br>1957 |
| | Cor. is located at bottom of slope. |
| | Asc. 130 ft. over general SW. slope of sandstone dome. |
| 54.90 | Sandstone dome; desc. 10 ft. over series of knobs. |
| 80.00 | True point for the cor. of secs. 7 and 18, falls on the steep NE. slope of sandstone dome, where it is impractical to set the monument. |
| | Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber none; undergrowth, scattered groups of black brush. |
| | North, along the W. bdy. of sec. 7. |
| | Over broken exposed sandstone. |
| | Desc. 40 ft. over steep NE. slope. |

| Chains | |
|---|---|
| 1.20 | Point selected for the witness cor. of secs. 7 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E<br>S 7<br>S 18<br>W C.<br>1957 |
| | Asc. 10 ft. over series of sandstone knobs. |
| 23.80 | S. rim of canyon, bears N. 60° W. and S. 60° E. By tri. desc. about 860 ft. over ledges and steep N. slope. |
| 35.73 | Mean high water level on the right bank of the Colorado River, course S. 80° E. |
| | Point for the meander cor. of sec. 7. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd. |
| | MC<br>S. 7<br>R10E<br>T40S<br>1957 |
| | Thence cross the Colorado River, course S. 80° E. |
| 40.00 | Point for the ¼ sec. cor. of sec. 7 is in the Colorado River. |
| 46.87 | Mean high water level on the left bank of the Colorado River, course S. 80° E. |
| | Point for the meander cor. of sec. 7. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S<br>R10E<br>S 7<br>MC<br>1957 |
| | Asc. about 400 Ft. over S. facing ledges. |
| 51.00 | End of tri. on N. rim of Glen Canyon, bears N. 60° W. and S. 60° E., thence asc. 240 ft. over broken SW. slope. |
| 73.00 | Base of irregular sandstone knobs; asc. 160 ft. over steep S. slope. |
| 76.05 | Sandstone knob; desc. 30 ft. over steep N. slope. |
| 78.50 | Point selected for the witness cor. of secs. 6 and 7. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |

West Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | T40S<br>W C<br>R10E<br>S 6<br>S 7<br>1957 |
| | Desc. 10 ft. over steep N. slope. |
| 80.00 | True point for the cor. of secs. 6 and 7, falls in the bottom of small wash, draining SW. where the monument cannot be perpetuated.<br><br>Land, broken exposed sandstone.<br>Soil, sandy; Timber, none.<br>Undergrowth, scattered black brush. |
| | North, along W. bdy. of sec. 6.<br><br>Over broken and exposed sandstone.<br><br>Asc. 210 ft. over a series of steep broken sandstone knobs. |
| 35.60 | Rim of bench, bears irregularly S. 45° E. and N. 45° W., thence over nearly level ground through heavy black brush. |
| 40.00 | Point for the ¼ sec. cor. of sec. 6.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br><br>T40S<br>R10E<br>¼<br>S6<br>1957<br><br>Deposit a sandstone 6x4x2 ins., mkd. with a cross (X) at base of post. |
| 45.80 | Small wash, drains S. 45° W. |
| 51.00 | North rim of bench, bears irregularly E. and W.<br><br>Desc. 70 ft. over series of broken sandstone knobs. |
| 69.30 | South rim of Glen Canyon, bears S. 50° E. and N. 50° W.; desc. about 240 ft. over ledges facing NE., by tri. |
| 75.80 | Point selected for the witness cor. of Ts. 39 and 40 S., R. 10 E.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and supported in a mound of stone, 3 ft. base to top with brass cap mkd.<br><br>T39S<br>R10E<br>WC<br>S31<br>S 6<br>T40S<br>1957<br><br>Desc. 80 ft. over ledges facing NE. |

West Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| 80.00 | True point for the cor. of Ts. 39 and 40 S., R. 10 E. falls on inacce sible ledge where it is impractical to set the monument. |
| | Land, mostly exposed sandston . Soil, sandy. Timber, none. Undergrowth, scattered black brush, heavy on bench top. |

North Boundary, T. 40 S., R. 10 E.

| | |
|---|---|
| | Counting dist. from the true point for the cor. of Ts. 39 and 40 S., Rs. 10 and 11 E., which is in the Colorado River. |
| | S. 89° 59' W., bet. secs. 1 and 36. |
| 0.50 | Point for the meander cor. of secs. 1 and 36, on the left bank of the Colorado River, course NW., is inaccessible and was not monumente |
| | Thence, over rough breaks of Glen Canyon; asc. about 240 ft. over led NE. slope. |
| 10.00 | Top of ascent on spur sloping N. 20° W.; desc. about 320 ft. over W. slope and W. facing ledges. |
| 37.00 | Point for the meander cor. of secs. 1 and 36, on the left bank of the Colorado River is inaccessible and was not monumented. |
| 44.00 | Point for the meander cor. of secs. 1 and 36 on the right bank of the Colorado River is inaccessible and was not monumented. |
| | Asc. about 720 ft. over precipitous slope and ledges facing E. |
| 54.00 | West rim of Glen Canyon, bears N. and S. End of tri.; desc. 300 ft. over irregular sandstone domes. |
| 61.00 | East rim of canyon, bears N. and S.; desc. 160 ft. over ledge and steep W. slope. |
| 66.00 | Wash in bottom of canyon, drains S.; asc. 160 ft. over ledge facing E |
| 71.00 | West rim of canyon, bears N. and S.; desc. 80 ft. over sandstone dome |
| 80.00 | Point for the cor. of secs. 1, 2, 35, and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |

T39S R10E

| S35 | S36 |
|---|---|
| S 2 | S 1 |

T40S
1957

Land, broken and exposed sandstone.
Soil, sandy. Timber, none.
Undergrowth, scattered black brush.

North Boundary, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | S. 89° 59' W., bet. secs. 2 and 35. |
| | Over rolling sandstone domes, ledges and broken slopes. |
| | Asc. 80 ft. along N. slope of sandstone dome. |
| 16.00 | Ledge, bears N. 40° W. and S. 40° E.; desc. 160 ft. over face. |
| 24.00 | Wash, drains SE.; asc. about 240 ft. over steep E. sloping slick rock. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 35 falls in crevice, 50 lks. wide, 8 ft. deep, draining E. where the monument cannot be perpetuated. |
| 40.30 | Point selected for the witness ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>S35 W<br>¼ S 2 C<br>T40S<br>1957 |
| | End of tri., thence asc. 640 ft. over steep E. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>S34 \| S35<br>S 3 \| S 2<br>T40S<br>1957 |
| | Land, broken exposed sandstone.<br>Soil, exposed sandstone.<br>Timber, none. Undergrowth, widely scattered black brush. |
| | S. 89° 59' W., bet. secs. 3 and 34. |
| | Over broken and exposed sandstone, through widely scattered juniper. |
| | Asc. 200 ft. over steep E. slope over exposed sandstone. |
| 10.40 | Top of steep slope; cont. to asc. 60 ft. over broken SE. slope. |
| 30.00 | Slope changes to steep exposed sandstone ledges facing S. 70° E.; asc. 400 ft. |
| 38.00 | Top of broken dome; desc. 80 ft. over broken W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R10E<br>¼ S34/S 3<br>T40S<br>1957 |
| | Desc. 240 ft. over steep broken W. slope. |
| 50.00 | Bottom of steep W. slope; desc. 80 ft. over gentle W. slope. |
| 75.00 | Wash, in bottom of draw, 1 ch. wide, 1 ft. deep, drains S. 45° W.; asc. 10 ft. over SE. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R10E<br>S33 \| S34<br>S 4 \| S 3<br>T40S<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, widely scattered juniper.<br>Undergrowth, scattered black brush and grass. |
| | S. 89° 59' W., bet. secs. 4 and 33. |
| | Over rolling and broken land, through widely scattered juniper. |
| | Asc. 50 ft. over SE. slope. |
| 10.50 | Top of ascent on low spur projecting SW.; desc. 110 ft. over gentle NW. slope. |
| 27.50 | Wash, 70 lks. wide, 2 ft. deep, drains S. 45° W.; asc. 10 ft. over SE. slope. |
| 29.00 | Small spur, prpjects S. 45° W.; desc. 30 ft. over gentle NW. slope. |
| 36.50 | Wash, 30 lks. wide, 1 ft. deep, drains S. 40° W.; asc. 10 ft. to base of steep sandstone ledges facing S. 80° E. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set and iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with a collar of stone around post, with brass cap mkd.<br><br>T39S R10E<br>S33<br>¼ S 4<br>T40S<br>1957 |
| | Asc. 110 ft. over sandstone ledges facing S. 80° E. |
| 48.50 | Top of ascent; thence over small sandstone knobs. |

| Chains | |
|---|---|
| 53.40 | Sandstone knob; desc. 160 ft. over NW. slope of exposed sandstone knob. |
| 57.00 | Wash, in bottom of draw, drains irregularly SW.; asc. 80 ft. over exposed sandstone ledge facing SE., thence over nearly level land. |
| 73.80 | Leave nearly level land; desc. 30 ft. over gentle W. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R10E<br>S32 \| S33<br>S 5 \| S 4<br>T40S<br>1957 |
| | The cor. is located in shallow drain in small black brush covered flat surrounded by sandstone domes. |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, widely scattered juniper and pinion.<br>Undergrowth, heavy black brush on small benches and in shallow depressions. |
| | S. 89° 59' W., bet. secs. 5 and 32. |
| | Over rolling and broken exposed sandstone. |
| | Asc. 30 ft. over a series of sandstone domes. |
| 17.80 | Top of ascent on spur projecting W.; desc. 410 ft. over broken sandstone ledges facing W. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R10E<br>¼ S32 / S 5<br>T40S<br>1957 |
| 40.10 | East rim of canyon, bears N. and S.; desc. 160 ft. over ledges facing W. |
| 45.60 | Wash, in bottom of canyon, 50 lks. wide, 2 ft. deep, drains S. for about 1 ch., thence W.; asc. 80 ft. over ledges facing E. |
| 48.60 | W. rim of canyon, bears N. and S.; cont. over nearly level land. |
| 76.00 | Base of lone broken sandstone knob; asc. 40 ft. along S. slope. |
| 79.90 | Point selected for the witness cor. of secs. 5, 6, 31 and 32. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R10E<br>W S31 S32<br>C S 6 S 5<br>T40S<br>1957 |
| 80.00 | True point for cor. of secs. 5, 6, 31 and 32 falls on side of large broken rock where monument cannot be perpetuated.<br><br>Land, broken and exposed sandstone.<br>Soil, sandy and exposed sandstone.<br>Timber, none; undergrowth, scant black brush. |
| | S. 89° 59' W., bet. secs. 6 and 31.<br><br>Over broken exposed sandstone.<br><br>By tri. desc. 160 ft. over broken W. slope. |
| 8.00 | East rim of canyon, bears N. 10° E. and S. 10° W.; desc. 280 ft. over broken W. facing ledges. |
| 21.00 | Wash, in bottom of canyon, drains S. 10° W.; asc. 280 ft. over broken E. facing ledges. |
| 24.90 | Spur, projecting S. 20° W. End of tri.; desc. 140 ft. over series of broken W. facing ledges. |
| 32.00 | Point selected for the witness ¼ sec. cor. of secs. 6 and 31.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T39S R10E<br>W S31<br>C S 6<br>T40S<br>1957<br><br>Thence by tri. desc. 420 ft. over W. facing ledges. |
| 40.00 | True point for the ¼ sec. cor. of secs. 6 and 31 falls in the bottom of an inaccessible canyon draining S.; asc. 160 ft. over E. facing ledges. |
| 42.00 | S. tip of spur projecting S.; desc. 240 ft. over W. facing ledges. |
| 53.00 | Approximate right bank of the Colorado River, course NW., thence cross Colorado River. |
| 62.00 | Approximate left bank of the Colorado River, course NW.; asc. 560 ft. over NE. facing ledges. |
| 79.30 | True point for the cor. of Ts. 39 and 40 S., R. 10 E., from which its witness cor. bears S. 4.20 chs. dist.<br><br>Land, broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, none; undergrowth, scant black brush, Brigham tea and grass. |

Portion of the Subdivision, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | From the standard cor. of secs. 35 and 36, on the S. bdy. of the Tp. |
| | N. 0° 01' W., bet secs. 35 and 36. |
| | Over rolling desert land, and exposed sandstone knobs, through widely scattered juniper. |
| | Asc. 10 ft. over rolling desert land through heavy black brush, general drainage is NE. |
| 33.00 | Base of exposed sandstone knob; asc. 20 ft. along W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R10E<br>¼<br>S35 \| S36<br>1957 |
| | Asc. 50 ft. over rolling sandstone knobs. |
| 71.30 | Top of ascent; desc. 70 ft. along NE. slope of sandstone dome covered with heavy blow sand. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground and in a collar of stone, with brass cap mkd. |
| | T40S R10E<br>S26 \| S25<br>S35 \| S36<br>1957 |
| | Land, rolling desert land and exposed sandstone.<br>Soil, sandy.<br>Timber, widely scattered juniper.<br>Undergrowth, heavy black brush and scattered Brigham tea. |
| | From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp. S. 89° 57' W., bet. secs. 25 and 36. |
| | Over rolling exposed sandstone and desert land covered with black brush. |
| | Asc. 80 ft. over steep SE. slope. |
| 6.00 | Top of ridge bearing N. 20° E. and S. 20° W.; asc. 10 ft. over nearly level ridge top through heavy black brush. |
| 16.80 | Land becomes broken; desc. 290 ft. over broken W. slope. |
| 39.50 | Point selected for the witness ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R10E<br>W ¼ S25<br>C S36<br>1957 |

| Chains | |
|---|---|
| | Desc. 10 ft. over broken W. slope. |
| 39.90 | Small wash, drains irregularly NE. |
| 40.00 | True point for the ¼ sec. cor. of secs. 25 and 36 falls on E. slope of wash where monument cannot be perpetuated. |
| | Asc. 330 ft. over broken E. sloping sandstone. |
| 64.70 | Spur, projects N.; desc. 100 ft. over broken W. slope. |
| 80.00 | The cor. of secs. 25, 26, 35 and 36. |
| | Land, mostly broken exposed sandstone.<br>Soil, sandy and rocky.<br>Timber, none; undergrowth, black brush on ridge top and in small depressions. |

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From the standard cor. of secs. 33 and 34, on the S. bdy. of the Tp.

N. 0° 02' W., bet. secs. 33 and 34.

Over rolling sandstone.

Desc. 150 ft. along W. slope of spur projecting N.

| | |
|---|---|
| 15.80 | Small wash, draining SW.; asc. 80 ft. over broken SW. slope. |
| 30.00 | Small wash, near head, draining SW.; asc. 80 ft. over broken SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground to bedrock and in a mound of stone, 2½ ft. base to top of post, with brass cap mkd.

T40S R10E
¼
S33|S34
1957

Asc. 70 ft. over S. sloping slickrock.

| | |
|---|---|
| 43.50 | S. rim of mesa, bears irregularly NW. and SE.; asc. 10 ft. over mesa top. |
| 72.40 | N. rim of mesa, bears NE. and SW.; desc. 140 ft. over N. sloping slickrock. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34. |

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T40S R10E
S28|S27
S33|S34
1957

Land, rolling exposed sandstone.
Soil, sandy. Timber, none.
Undergrowth, scattered black brush and mountain rush.

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Portion of the Subdivision, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Over broken land. |
| | Desc. 10 ft. over steep N. slope. |
| 11.00 | Base of sandstone knob; asc. 60 ft. over S. sloping slickrock. |
| 12.58 | Sandstone konb; by tri. desc. about 240 ft. over broken N. slope. |
| 22.00 | Rim, bears NW. and SE.; desc. about 400 ft. over NE. facing ledge. |
| 32.00 | Base of ledge; thence desc. about 40 ft. over N. sloping sand dunes. |
| 40.00 | True point for the ¼ sec. cor. of secs. 27 and 28, falls on W. bank of small wash, draining NE., where the monument cannot be perpetuated. |
| 40.50 | Point selected for the witness ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to bedrock and in a mound of stone, 2½ ft. base to top of post, with brass cap mkd. |
| | T40S R10E<br>¼<br>S28 \| S27<br>W C<br>1957 |
| | Desc. 40 ft. over N. sloping sand dunes. |
| 47.00 | Wash, 50 lks. wide, 3 ft. deep, drains irregularly NW.; asc. 40 ft. along W. side of wash. |
| 52.00 | End of tri.; thence over nearly level sandy land. |
| 70.00 | Land becomes broken; asc. 80 ft. over broken S. slope. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S R10E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, nearly level to broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, none; undergrowth, scattered black brush and grass. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over broken land. |
| | Asc. 240 ft. along broken W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in bedrock and supported in a mound of stone, 2 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S R10E<br>¼<br>S21 \| S22<br>1957 |
| | Asc. 40 ft. along broken W. slope. |
| 54.00 | Slope changes NW.; desc. 180 ft. along broken NW. slope. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and supported in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R10E<br>S16 \| S15<br>S21 \| S22<br>1957 |
| | Land, broken.<br>Soil, sandy and rocky. Timber, none.<br>Undergrowth, scattered black brush and grass. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over broken land. |
| | Desc. 260 ft. over broken NW. slope. |
| 40.00 | Point for the ¼ sec. cor of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R10E<br>¼<br>S16 \| S15<br>1957 |
| | Desc. 170 ft. over broken NW. slope. |
| 57.00 | Wash, 50 lks. wide, 4 ft. deep, drains N. 10° E. |
| | Asc. 50 ft. over SE. slope. |
| 73.30 | Top of ascent on spur projecting NE.; desc. 10 ft. over nearly level land. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |
| | T40S R10E<br>S 9 \| S10<br>S16 \| S15<br>1957 |
| | Depost a sandstone 6x4x2 ins., mkd. with a cross (X) at base of post. |
| | Land, broken for first 70 chs., sandy for remaining 10 chs.<br>Soil, rocky to sandy. Timber, none.<br>Undergrowth, scattered black brush and grass on broken ground; moderate growth of grass and weeds on level land. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over rolling and broken land. |
| | Desc. 80 ft. along NE. slope. |
| 10.00 | Slppe changes to N.; desc. 200 ft. over steep N. slope. |
| 18.26 | Mean high water level on the left bank of the Colorado River, course W. |
| | Point for the meander cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.<br>MC<br>S 9 \| S10<br>T40S R10E<br>1957 |
| | Desc. 30 ft. over left bank of Colorado River. |
| 22.00 | Water's edge on left side of Colorado River; course W., thence across the Colorado River by tri. |
| 31.00 | Water's edge on right side of the Colorado River; asc. 30 ft. over S. slope. |
| 31.50 | The true point for the meander cor. of secs. 9 and 10, at mean high water level, on the right bank of the Colorado River, course W., is inaccessible. |
| | Asc. 160 ft. over ledges facing S. |
| 34.30 | Point selected for the witness meander cor. of secs. 9 and 10, on the right side of the Colorado River. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T40S R10E<br>S 9 \| S10<br>WMC<br>1957 |
| | Cor. is set on top of ledges overlooking Colorado River. |
| | End of tri.; thence, over nearly level sandstone. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T40S R10E<br>¼<br>S 9 \| S10<br>1957 |
| | Cont. over nearly level exposed sandstone. |
| 56.00 | Land becomes broken; asc. 560 ft. over broken S. slope. |

| Chains | |
|---|---|
| 79.10 | Point selected for the witness cor. of secs. 3, 4, 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R10E<br>S4 S3<br>S 9 S10<br>W C<br>1957 |
| 80.00 | True point for the cor. of secs. 3, 4, 9 and 10 falls on the side of a large broken rock where the monument cannot be perpetuated.<br><br>Land, rolling and broken.<br>Soil, sandy to rocky.<br>Timber, none. Undergrowth, moderate growth of grass, weeds and black brush at beginning of the mile; tamarisk on river bank. |
| | N. 0° 02' W., bet. secs. 3 and 4.<br><br>Over broken slope, ledges and rolling exposed sandstone.<br><br>Asc. 240 ft. over broken SW. slope. |
| 26.00 | Base of ledge, bears irregularly E. and W.; asc. 240 ft. |
| 27.00 | N. rim of Glen Canyon, bears irregularly E. and W.; asc. 30 ft. over e exposed sandstone sloping SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R10E<br>¼<br>S4 S3<br>1957<br><br>Thence along SW. sloping slickrock. |
| 47.00 | S. rim of canyon, bears NE. and SW.; desc. 80 ft. over ledges and talu facing NW. |
| 52.00 | Small wash in bottom of canyon, drains SW.; asc. 80 ft. over talus and ledges facing SE. |
| 54.00 | N. rim of canyon, bears SW. and NE., thence over broken exposed sandstone. |
| 71.00 | S. rim of draw, bears NE. and SW.; desc. 80 ft. over ledges facing NW. |
| 73.00 | Small wash in bottom of draw, drains SW.; asc. 80 ft. over SE. slope and ledges facing SE. |
| 75.00 | N. rim of draw, bears NE. and SW.; asc. 60 ft. over SE. slope. |
| 79.93 | The cor. of secs. 3, 4, 33 and 34.<br><br>Land, broken exposed sandstone.<br>Soil, sandy and rocky. Timber, none.<br>Undergrowth, scattered black brush and bitter brush. |

Portion of the Subdivision, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Over E. slope of exposed sandstone cut by numerous small washes draining E. |
| 39.95 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R10E<br>¼<br>S3 \| S2<br>1957 |
| | Cor. is located on the side of a rocky cut about 30 ft. deep, draining E. |
| | Cont. along E. slope. |
| 62.10 | N. rim of canyon, bears NW. and SE.; desc. 590 ft. over ledge and precipitous SW. slope. |
| 79.95 | Point for the cor. of secs. 2, 3, 10 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R10E<br>S3 \| S2<br>S10 \| S11<br>1957 |
| | Land, broken exposed sandstone.<br>Soil, exposed sandstone, sandy and rocky.<br>Timber, none; undergrowth, scattered black brush. |
| | East, bet. secs. 2 and 11, on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12 on the E. bdy. and the cor. of secs. 3, 4, 9 and 10, as specified in the special instructions. |
| | Asc. 100 ft. over broken SW. slope of rockslide. |
| 16.20 | Top of ascent on spur projecting S., thence along broken S. slope. |
| 20.60 | Slope changes to general SE.; desc. 330 ft. |
| 40.00 | True point for the ¼ sec. cor. of secs. 2 and 11 falls on steep SE. slope among large broken rocks where monument cannot be perpetuated. |
| | Desc. 210 ft. over precipitous SE. slope through large broken rocks. |
| 49.80 | Point selected for the witness ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T40S R10E<br>W ¼ S 2<br>C ¼ S11<br>1957 |

| Chains | |
|---|---|
| | Desc. 40 ft. over SE. slope. |
| 52.70 | Mean high water level, on the right bank of the Colorado River, course SW.<br><br>Point for the meander cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.<br><br>T40S R10E<br>S 2 / MC<br>S11<br>1957<br><br>Desc. 10 ft. over SE. slope. |
| 53.70 | Present water level on the right bank of the Colorado River, course SW., thence cross the Colorado River by triangulation. |
| 68.00 | Present water level on the left bank of the Colorado River, course SW.; asc. 10 ft. over SW. slope. |
| 69.17 | Mean high water level on the left bank of the Colorado River.<br><br>Point for the meander cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd.<br><br>T40S R10E<br>MC / S 2<br>S11<br>1957<br><br>Asc. 60 ft. over SW. slope. |
| 76.00 | Small stream, course NW. approx. 2 chs. to the Colorado River.<br><br>Asc. 300 ft. over SW. facing ledges. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.<br><br>T40S R10E<br>S 2 \| S 1<br>S11 \| S12<br>1957<br><br>Note: Cor. is approx. 6 chs. NW. and 240 ft. below a sandstone knob on spur projecting N. 60° W.<br><br>Land, broken.<br>Soil, sandy, strewn with rocks.<br>Timber, none.<br>Undergrowth, tamarisk and willows along river bottom. |
| | N. 0° 01' W., bet. secs. 1 and 2.<br><br>Over ledges and exposed sandstone. |
| .65 | Point selected for the Ultage meander cor. of secs. 1 and 2. |

Portion of the Subdivision, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>WMC<br>S2\|S1<br>T40S R10E<br>1957 |
| | Witness cor. is located on cliff 360 ft. high; desc. abruptly over N. face. |
| 1.88 | True point for the meander cor. of secs. 1 and 2 on the left bank of the Colorado River at mean high water level is inaccessible; thence cross the Colorado River by tri. |
| 10.78 | Mean high water level on the right bank of the Colorado River, course S. 80° W. |
| | Point for the meander cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>T40S R10E<br>S2\|S1<br>M C<br>1957 |
| | No suitable accessories available. |
| | Asc. 360 ft. over ledges facing S. |
| 20.20 | N. rim of canyon, bears irregularly E. and W.; end of tri., thence over nearly level exposed sandstone. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R10E<br>¼<br>S2\|S1<br>1957 |
| | Desc. 80 ft. over rolling exposed sandstone. |
| 62.00 | Draw, drains irregularly SE.; asc. 600 ft. over exposed sandstone and ledge facing S. |
| 72.00 | Top of ascent on spur projecting SE.; desc. 80 ft. over N. face of sandstone dome. |
| 79.98 | The cor. of secs. 1, 2, 35 and 36, on the N. bdy. |
| | Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush, tamarisk on river bottom. |
| | From the cor. of secs. 15, 16, 21 and 22. |
| | West, bet. secs. 16 and 21. |
| | Desc. 240 ft. over broken W. slope. |

Portion of the Subdivision, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| 19.50 | Wash, 30 lks. wide, 3 ft. deep, drains irregularly N.; asc. 210 ft. over steep clay slope sloping E. |
| 31.00 | Top of clay slope; asc. 220 ft. over sandy E. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd. |
| | T40S R10E<br>¼ S16/S21<br>1957 |
| | No suitable accessories available. |
| | Asc. about 560 ft. over E. slope and ledge facing E., by tri. |
| 53.80 | End of tri. on W. rim of canyon, bears N. and S.; desc. 50 ft. over a series of small sandstone rims facing W. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R10E<br>S17 \| S16<br>S20 \| S21<br>1957 |
| | Land, rolling and broken.<br>Soil, mostly sandy and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush, Brigham tea, weeds and grass. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over rolling exposed sandstone; asc. 10 ft. along general W. slope. |
| 27.70 | Top of ascent on low spur projecting SW.; desc. 60 ft. along general NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top with brass cap mkd. |
| | T40S R10E<br>¼<br>S17 \| S16<br>1957 |
| | The ¼ sec. cor. is located near the base of a sandstone dome. |
| | Desc. 20 ft. over NW. slope. |
| 45.50 | Small draw, drains S. 80° W.; asc. 40 ft. over SE. slope. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R10E<br>S 8 \| S 9<br>S17 \| S16<br>1957<br><br>Land, rolling and exposed sandstone.<br>Soil, sandy. Timber, none.<br>Undergrowth, scattered groups of black brush. |
| | From the cor. of secs. 9, 10, 15 and 16.<br><br>S. 89° 58' W., bet. secs. 9 and 16.<br><br>Over broken and ledgy land.<br><br>Asc. 190 ft. over rolling sandy E. slope. |
| 30.50 | Leave sandy slope; asc. 290 ft. over rocky E. slope. |
| 40.12 | Point for the ¼ sec. cor. of secs. 9 and 16.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R10E<br>¼ S 9<br>S16<br>1957<br><br>By tri. asc. about 720 ft. over broken slope and ledges facing NE. |
| 57.30 | End of tri.; W. rim of canyon bears NW. and SE.; asc. 30 ft. over NE. slope. |
| 60.50 | Top of ascent; desc. 90 ft. over gradual W. slope. |
| 80.24 | The cor. of secs. 8, 9, 16 and 17.<br><br>Land, rolling and broken.<br>Soil, sandy and exposed sandstone.<br>Timber, none; undergrowth, scattered black brush, Brigham tea, weeds and grass. |
| | From the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp.<br><br>N. 0° 03' W., bet. secs. 32 and 33.<br><br>Over series of sandstone knobs, with a general SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S R10E<br>¼<br>S32 \| S33<br>1957 |
| | Asc. 110 ft. over rolling and broken land, with a general SW. slope. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S R10E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy. Timber, none.<br>Undergrowth, moderate black brush and grass. |
| | Counting dist. from the true point for the standard cor. of secs. 31 and 32, on the S. bdy. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Over rolling exposed sandstone, with a general SW. slope. |
| | Asc. 100 ft. over S. sloping slick rock. |
| 1.50 | Spur, projects W.; desc. 60 ft. over N. slope. |
| 5.40 | Draw, drains SW.; asc. 40 ft. over SE. slope. |
| 10.20 | Spur, projects S. 30° W.; desc. 40 ft. over NW. sloping slickrock. |
| 18.80 | Wash, 50 lks. wide, 2 ft. deep, drains S. 40° W.; asc. 140 ft. over SE. sloping slickrock. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S R10E<br>¼<br>S31 \| S32<br>1957 |
| | Asc. 30 ft. over SE. slope. |
| 42.40 | Broken spur, sloping S. 40° W., thence over rolling exposed sandstone, sloping SW. |
| 80.00 | Point for the cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |

Portion of the Subdivision, T. 40 S., R. 10 E.

| Chains | |
|---|---|
| | T40S R10E<br>S30 \| S29<br>S31 \| S32<br>1957<br><br>Deposit a sandstone, 6x4x2 ins., mkd. with a cross (X) at base of post.<br><br>Cor. is located 50 lks. E. of small wash draining SW.<br><br>Land, rolling to broken.<br>Soil, sandy. Timber, none.<br>Undergrowth, moderate growth of black brush and grass in depressions between sandstone domes. |
| | From the cor. of secs. 28, 29, 32 and 33.<br><br>N. 89° 59' W., bet. secs. 29 and 32.<br><br>Over broken land and a series of sandstone knobs. |
| 39.98 | Point for the ¼ sec. cor. of secs. 29 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.<br><br>T40S R10E<br>¼ S29 / S32<br>1957<br><br>Deposit a sandstone, 4x3x2 ins., mkd. with a cross (X) at base of post.<br><br>Desc. 60 ft. over broken W. slope. |
| 42.30 | Wash, 30 lks. wide, 2 ft. deep, drains S.; asc. 60 ft. over broken E. facing ledge. |
| 43.00 | Top of steep ascent, thence over series of sandstone knobs. |
| 60.00 | Low spur, sloping S. 40° W.; desc. 60 ft. over series of sandstone knobs, with General SW. slope. |
| 79.96 | The cor. of secs. 29, 30, 31 and 32.<br><br>Land, rolling and broken.<br>Soil, sandy, with exposed sandstone.<br>Timber, none; undergrowth, moderate black brush and grass in depressions between knobs. |
| | **Meanders of the Colorado River** |
| | From the meander cor. of secs. 1 and 2, on the right bank of the Colorado River.<br><br>Downstream with the meanders of the right bank of the river in sec. 2.<br><br>S. 77° 58' W., 17.27 chs. |

Chains

S. 55° 25' W., 12.64 chs. The meander cor. of secs. 2 and 11, on the right bank of the Colorado River.

Land, rough bottom of Glen Canyon.
Soil, sand.
Timber, willows on river banks.

From the true point for the meander cor. of secs. 1 and 2, on the left bank of the Colorado River.

Downstream with the meanders of the left bank of the river in sec. 2

S. 80° 00' W., 11.00 chs. The meander cor. of secs. 2 and 11, on the left bank of the Colorado River.

Land, rough bottom of Glen Canyon.
Soil, sand.
Timber, scattered willows on banks.

## General Description

The land of T. 40 S., R. 10 E. is rolling and broken mesa, with a general SW. exposure and drainage. The elevation of the township ranges from approximately 3200 ft. above sea level along the Colorado River to a maximum of 5105 ft. in sec. 3.

The Colorado River, which is a meanderable stream, enters the township at the north boundary near the ¼ sec. cor. of secs. 1 and 36, draining south approximately 1 mile, thence west approximately 3 miles, thence northwest, to leave the township at the north boundary approximately 10 chs. east of the northwest cor. of the township. The Colorado River reenters the township at the west boundary near the ¼ sec. cor. of secs. 7 and 12, draining southeast in a large lope to leave the township at the west boundary approximately 20 chs. north of the northwest cor. of sec. 30. There is some navigation on the river. The Colorado River is approximately 1200 ft. below the general elevation of the township and is rimmed with inaccessible vertical ledges throughout its length. The rincon, an oxbow, of the Colorado River, encompasses most of the area of the east half of secs. 16 and 20, and the area of secs. 20 and 15.

The soil is principally a shallow sandy silt, with numerous sandstone outcrops, covered with a short growth of black brush, Brigham tea, gama grass and cacti. A scattered growth of dwarf juniper and pinion is found throughout most of the township.

There are no roads in the vicinity of the township and this survey was carried on by use of helicopters.

The only water noted during the survey was that of the Colorado River and as far as could be determined the water of the Colorado River was inaccessible. There are probably intermittent seeps in the township but none were noted during this survey.

Because of the inaccessibility of the township, the only activity being carried on in the township was winter cattle grazing.

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# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 1956, I have ~~surveyed~~ supervised the survey of the Eighth Standard Parallel South in R. 10 E. and the north, west and east boundaries, a portion of the subdivision, and the meanders of the Colorado River through Sec. 2 of T. 40 S., R. 10 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah

March 4, 1958

Vern E. Lane

Vern E. Lane
Cadastral Surveyor (Chief of Party)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* SEP 22 1958, *19*

The foregoing field notes of the survey of the Eighth Standard Parallel South, R. 10 E., and the north, west and east boundaries, a portion of the subdivision and the meanders of the Colorado River through Sec. 2 of T. 40 S., R. 10 E.

executed ~~by~~ under the supervision of Vern E. Lane (Chief of Party) having been critically examined and found correct, are hereby approved.

Earl G. Harrington

*Cadastral Engineering Staff Officer.*

## ~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 40 S., R. 10 E., Salt Lake Mer., is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—58865-3

4—679
(September 1948)

39

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY

OF

THE NORTH AND EAST BOUNDARIES

AND

A PORTION OF THE SUBDIVISION
AND
MEANDERS OF THE RIGHT BANK OF THE SAN JUAN RIVER THROUGH SEC. 32
OF
TOWNSHIP 40 SOUTH, RANGE 11 EAST

*Of the* SALT LAKE *Meridian,*

*In the State of* UTAH

EXECUTED BY

Craig P. Sylvester — Cartographic Survey Aid

Vern E. Lane — Cadastral Surveyor (Chief of Party)

*Under special instructions dated* August 27, *19* 56, *which provided for the surveys included under Group No.* 404, *approved* November 7, 1956 *and assignment instructions dated* July 30, *19* 57

*Survey commenced* August 7, *19* 57

*Survey completed* August 23, *19* 57

U. S. GOVERNMENT PRINTING OFFICE 16—86770-1

# INDEX DIAGRAM

*Township* 40 South, *Range* 11 East

| | | | | | |
|---|---|---|---|---|---|
| 9<br>6 | 8<br>5 | 8<br>4 | 7<br>16 3 16 | 6<br>2 | 6<br>18 1 5 |
| 7 | 8 | 9<br>20 | 15 10 | 17<br>11 | 12 5 |
| 18 | 17 19 | 16 | 15 15 | 14 | 13 4 |
| 19 | 20 | 18<br>21 | 14 22 | 23 | 24 3 |
| 30 | 29<br>22 | 28 | 13 27 | 26 | 25 2<br>11 |
| 31 21 | 32 | 20 33 | 12 34 | 35 10 | 36 2 |

16—56770-1

The meanders of the right bank of the San Juan River through Sec. 32, on page 23.

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Township 40 South, Range 11 East

Chains

The south boundary, Eighth Standard Parallel South, was surveyed by C. F. Moore and W. W. Bandy and its record appears in the official record of the 1926 survey of the Eighth Standard Parallel South, through Range 11 East. The west boundary was concurrently surveyed in 1957 by Boyd S. Owens, under Group 404, and the record appears in the field notes of T. 40 S., R. 10 E.

The following field notes are those of the survey of the east and north boundaries and a portion of the subdivision of T. 40 S., R. 11 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections normally considered State school sections.

The survey was executed with W. and L. E. Gurley transit No. 461263, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of the survey.

The directions of the lines of the survey were determined by true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by numerous altitude observations on the sun taken throughout the progress of the survey.

Measurements herein contained were made with a narrow steel tape 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment. The field notes show the horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by triangulation or traverse methods. Distances to topography features on lines run by triangulation or traverse are approximate as scaled from U. S. G. S. topographic sheets. The details of such traverse or triangulation have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions all subdivisional corners established were calculated to be at the position they would occupy if the entire township were subdivided.

The geographic position for the SE. corner of T. 40 S., R. 11 E. is at latitude 37° 15' 31.9" N. and longitude 110° 38' 12.1" W. as determined by traverse and section line ties to U. S. G. S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° East.

---

East Boundary, T. 40 S., R. 11 E.

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Beginning at the standard cor. of T. 40 S., Rs. 11 and 12 E., an iron post, 3 ins. diam., conforming to the record.

North, bet. secs. 31 and 36.

East Boundary, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| | Over broken land; desc. 135 ft. over NW. slope. |
| 11.30 | Wash, 1 ch. wide, 20 ft. deep, drains S. 30° W.; asc. 270 ft. along SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.<br>T40S<br>R11E R12E<br>¼<br>S31 \| S36<br>1957 |
| | Asc. about 400 ft. over SE. slope and ledges facing SE., by triangulation. |
| 53.70 | Rim, bears N. 40° E. and S. 40° W.; asc. about 100 ft. over broken and irregular sandstone formation, by triangulation. |
| 70.60 | Top of ascent, bears NE. and SW.; end of triangulation, thence desc. 175 ft. over broken NW. slope. |
| 80.00 | Point for the cor. of secs. 25, 30, 31 and 36, falls on steep NW. slope where the monument cannot be perpetuated. |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 25 and 30.<br>Over broken land; desc. NW. slope. |
| .10 | Point selected for the witness cor. of secs. 25, 30, 31 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T40S<br>R11E R12E<br>S30 \| S25<br>S31 \| S36<br>W C<br>1957 |
| | Desc. 10 ft. over NW. slope. |
| 1.90 | Wash, 40 lks. wide, 20 ft. deep, drains SW.; asc. 100 ft. over broken SE. slope. |
| 9.20 | Top of ascent on rim, bears NE. and SW.; desc. 165 ft. over broken NW. slope. |
| 36.09 | Point selected for the witness ¼ sec. cor. of secs. 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in sand to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

East Boundary, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| | T40S<br>R11E R12E<br>¼<br>W C<br>S30\|S25<br>1957 |
| 36.20 | Rim, bears N. 30° E., and S. 30° W.; desc. approx. 400 ft. over series of ledges facing NW., by triangulation. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 30 falls on inaccessible ledges where it is impractical to set the monument. |
| 48.00 | Base of ledges, bears N. 60 E. and S. 20° W., end of triangulation; desc. 80 ft. along broken W. slope in canyon bottom. |
| 80.00 | Point for the cor. of secs. 19, 24, 25 and 30. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S<br>R11E R12E<br>S24\|S19<br>S25\|S30<br>1957 |
| | Cor. falls on S. bank of wash draining SW. about 15 chs. from its junction with main wash in bottom of canyon. |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 19 and 24. |
| | Over broken land in bottom of canyon; desc. 10 ft. over NW. slope. |
| .90 | Wash, 30 lks. wide, 4 ft. deep, drains SW.; asc. 40 ft. along W. slope in bottom of canyon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 19 and 24. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S<br>R11E R12E<br>¼<br>S24\|S19<br>1957 |
| | Desc. 10 ft. along gentle W. slope in bottom of canyon. |
| 73.40 | Wash in bottom of canyon, 20 lks. wide, 3 ft. deep, drains S. 10° W.; asc. 65 ft. over steep S. slope. |
| 76.20 | Point selected for the witness cor. of secs. 13, 18, 19 and 24. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S<br>R11E R12E<br>W C<br>S13 S18<br>S24 S19<br>1957 |
| | Cor. falls on ledge about 65 ft. from bottom of canyon. |
| | Asc. about 300 ft. over ledges facing S., by triangulation. |
| 79.30 | Crest of rim, bears E. and S. 30° W.; asc. 15 ft. over steep S. slope. |
| 80.00 | Point for the cor. of secs. 13, 18, 19 and 24, falls on steep S. slope where the monument cannot be perpetuated; end of triangulation. |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North, bet. secs. 13 and 18. |
| | Over broken land; asc. 65 ft. over broken S. slope. |
| 18.30 | Top of ascent, bears E. and W.; desc. 85 ft. over broken N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S<br>R11E R12E<br>¼<br>S13 S18<br>1957 |
| | Asc. 10 ft. over broken and irregular sandstone formation. |
| 80.00 | Point for the cor. of secs. 7, 12, 13 and 18. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S<br>R11E R12E<br>S12 S 7<br>S13 S18<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

East Boundary, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| | North, bet. secs. 7 and 12. |
| | Over broken land; desc. 230 ft. over broken NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 7 and 12 falls in wash, 20 lks. wide, 4 ft. deep, draining S. 40° W. where the monument cannot be perpetuated. |
| | Asc. 10 ft. over S. slope. |
| 40.35 | Point selected for the witness ¼ sec. cor. of secs. 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd. |
| | T40S<br>R11E R12E<br>¼<br>S12 \| S 7<br>WC<br>1957 |
| | Asc. 265 ft. over broken S. slope. |
| 63.00 | Top of prominent sandstone knob; asc. 35 ft. over S. slope. |
| 80.00 | Point for the cor. of secs. 1, 6, 7 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S<br>R11E R12E<br>S 1 \| S 6<br>S12 \| S 7<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | North bet. secs. 1 and 6. |
| | Over broken land; asc. 190 ft. over irregular S. slope. |
| 32.10 | Top of ascent, bears E. and W.; desc. 110 ft. along broken NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 6. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S<br>R11E R12E<br>¼<br>S1 \| S6<br>1957 |
| | Desc. 230 ft. over general NW. slope. |
| 80.00 | Point for the cor. of Ts. 39 and 40 S., Rs. 11 and 12 E. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S<br>R11E R12E<br>S36 \| S31<br>S 1 \| S 6<br>T40S<br>1957<br><br>Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

North Boundary, T. 40 S., R. 11 E.

| | |
|---|---|
| | From the cor. of Ts. 39 and 40 S., Rs. 11 and 12 E.<br><br>N. 89° 57' W., bet. secs. 1 and 36.<br><br>Over broken land; desc. 205 ft. over irregular W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36 falls on steep NW. slope where the monument cannot be perpetuated. |
| 40.94 | Point selected for the witness ¼ sec. cor. of secs. 1 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼ S 36 W<br>S 1 C<br>T40S<br>1957<br><br>Desc. 95 ft. over broken W. slope. |
| 49.70 | Base of broken W. slope; desc. 25 ft. over rolling land. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.<br><br>T39S R11E<br>S35 \| S36<br>S 2 \| S 1<br>T40S<br>1957<br><br>No suitable accessories available.<br><br>Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

| | |
|---|---|
| | N. 89° 57' W., bet. secs. 2 and 35.<br><br>Over rolling land, draining SW.; desc. 85 ft. |

| Chains | |
|---|---|
| 22.10 | Wash, 40 lks. wide, 4 ft. deep, drains SW. irregularly; asc. 45 ft. over rolling SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.<br><br>T39S R11E<br>¼ S35 / S 2<br>T40S<br>1957 |
| | Asc. 10 ft. over SE. slope. |
| 45.30 | Top of ascent, bears NE. and SW.; desc. 80 ft. over irregular W. slope of exposed sandstone. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>S34 \| S35<br>S 3 \| S 2<br>T40S<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 57' W., bet. secs. 3 and 34.<br><br>Over rolling land; desc. 95 ft. over gentle SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T39S R11E<br>¼ S34 / S 3<br>T40S<br>1957 |
| | Desc. 5 ft. over rolling SW. slope. |
| 52.00 | Base of SW. slope; asc. 90 ft. over steep E. slope of exposed sandstone. |
| 56.00 | E. crest of bench, bears N. and SW.; desc. 10 ft. over top of bench. |
| 66.10 | W. crest of bench, bears N. and S.; desc. 85 ft. over W. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T39S R11E<br>S33 \| S34<br>S 4 \| S 3<br>T40S<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 57' W., bet. secs. 4 and 33. |
| | Over rolling land; desc. 30 ft. over gentle W. slope. |
| 24.30 | Small wash, drains SW.; asc. 35 ft. over E. slope. |
| 38.00 | Top of ascent, on top of small sandstone ridge bearing N. and S., thence over broken top of ridge. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R11E<br>¼ S33<br>S 4<br>T40S<br>1957 |
| | Cont. over top of small sandstone ridge. |
| 40.90 | W. crest of ridge, bears N. and S.; desc. 90 ft. over irregular W. slope. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R11E<br>S32 \| S33<br>S 5 \| S 4<br>T40S<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 57' W., bet. secs. 5 and 32. |
| | Over broken land; desc. 70 ft. over W. slope |
| 18.90 | Base of W. slope; asc. 90 ft. over broken E. slope. |

North Boundary, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| 28.50 | Top of ascent, bears N. and S.; desc. 40 ft. over gradual W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R11E<br>¼ S32 / S 5<br>T40S<br>1957 |
| | Desc. 60 ft. over broken W. slope of exposed sandstone. |
| 78.58 | Point selected for the witness cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R11E<br>W S31 \| S32<br>C S 6 \| S 5<br>T40S<br>1957 |
| | Cont. over irregular sandstone surface. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32 falls on steep slope of sandstone knob facing SE. where the monument cannot be perpetuated. |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 89° 57' W., bet. secs. 6 and 31. |
| | Over broken land; desc. 40 ft. over W. slope. |
| 5.90 | E. rim of Glen Canyon, bears N. and S. 70° E.; desc. about 330 ft. over ledges facing W. and 390 ft. over steep W. slope, by triangulation. |
| 27.80 | Wash, drains N. 70° W., 2 chs. to Colorado River, flowing small stream of water at time of survey. |
| 29.00 | Mean high water level on left bank of Colorado River, course S. 40° W. |
| 29.00 | Point for the meander cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S<br>MC S31 / S6 R11E<br>T40S<br>1957 |

| Chains | |
|---|---|
| 30.00 | E. bank of Colorado River, bears N. and S. 40° W. on curve, thence by triangulation across river. |
| 43.40 | W. bank of Colorado River, bears N. 20° E. and S. 80° W. on curve; asc. 10 ft. over W. bank. |
| 44.36 | Mean high water level on right bank of Colorado River, course S. 80° W. |
| | Point for the meander cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S<br>R11E — S31 / S6 — MC<br>T40S<br>1957 |
| | Asc. 65 ft. over SE. slope of point projecting S. from N. |
| 55.20 | Top of ascent on point; desc. 30 ft. over SW. slope. |
| 60.97 | Mean high water level on right bank of Colorado River, course N. 65° W. |
| | Point for the meander cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S<br>MC — S31 \ S6 — R11E<br>T40S<br>1957 |
| | Desc. 15 ft. over SW. slope. |
| 61.50 | Right bank of Colorado River, bears N. 65° W. on curve N. and S. 70° E., thence across Colorado River. |
| 79.04 | True point for the cor. of Ts. 39 and 40 S., Rs. 10 and 11 E. falls in Colorado River. |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |

## Portion of the Subdivision, T. 40 S., R. 11 E.

From the true point for the standard cor. of secs. 35 and 36 on the S. bdy., which is witnessed 66 lks. N. and mkd. by a 2 ins. iron post, conforming to the record.

N. 0° 01' W., bet secs. 35 and 36.

Over broken land; asc. 340 ft. over ledgy S. slope of N. rim of San Juan River.

| | |
|---|---|
| 8.20 | Top of sandstone knob, about 8 chs. diam.; desc. 145 ft. over N. slope of knob. |

| Chains | |
|---|---|
| 14.60 | small wash, drains SW.; asc. 130 ft. over broken S. slope. |
| 19.90 | Top of ascent on top of sandstone rib, bears S. 60° W. and N. 60° E.; desc. about 400 ft. over NW. slope into canyon, by triangulation. |
| 37.00 | Wash in bottom of canyon, drains SW.; asc. about 150 ft. over ledges facing SE. |
| 40.00 | True point for the ¼ sec. cor. of secs. 35 and 36 falls on steep SE. sloping ledges where it is impractical to set the monument; asc. about 80 ft. over SE. facing ledges. |
| 43.42 | Point selected for the witness ¼ sec. cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>¼<br>S35 \| S36<br>W C<br>1957 |
| | Cor. falls on point of spur projecting S. |
| | Asc. about 200 ft. over broken SE. slope and ledges facing SE. |
| 60.30 | Top of W. rim of canyon, bears N. 50° E. and S. 50° W., thence over broken and irregular sandstone formation, End of triangulation; desc. 85 ft. over steep NW. slope. |
| 73.00 | Small wash, drains SW.; asc. 240 ft. over steep SE. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36 falls on inaccessible SE. face of sandstone knob. |
| | From which its witness cor. bears E. 3.76 chs. dist. |
| | At this point, |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>W S26 \| S25<br>C S35 \| S36<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | From the true point for the cor. of secs. 25, 30, 31 and 36, on the E. bdy. |
| | West, bet. secs. 25 and 36. |
| | Over broken land; asc. 90 ft. over SE. slope. |
| 19.20 | Top of ascent, on spur projecting SW.; desc. 130 ft. over broken and irregular NW. slope. |

| Chains | |
|---|---|
| 29.00 | E. rim of canyon, bears N. 15° E. and S. 15° W.; desc. about 200 ft. over ledges facing NW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 5 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>¼ S25/S36<br>1957 |
| | Desc. about 180 ft. over NW. slope, by triangulation. |
| 45.00 | Wash in bottom of canyon, drains SW.; asc. about 280 ft. over SE. slope and ledges facing SE. |
| 62.00 | W. rim of canyon, bears S. 10° W. and N. 10° E.; end of triangulation, desc. 150 ft. over broken and irregular NW. slope. |
| 76.24 | The witness cor. of secs. 25, 26, 35 and 36. |
| 80.00 | True point for the cor. of secs. 25, 26, 35 and 36. |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | From a meander cor. on the left bank of the San Juan River bet. secs. 33 and 34, mkd. by an iron post, 1 in. diam., conforming to the record, which bears N. 0° 02' W., 26.70 chs. dist. from the standard cor. of secs. 33 and 34 on the Eighth Standard Parallel South. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Over broken land. |
| | By triangulation; desc. about 100 ft. over ledgy N. slope. |
| 0.80 | Present water level on the left bank of the San Juan River, course N. 70° W., thence cross river. |
| 7.50 | Right bank of the San Juan River, bears N. 70° W. and S. 70° E. |
| | Asc. about 60 ft. over steep S. slope. |
| 10.80 | Base of ledge; asc. about 500 ft. over face. |
| 13.30 | True point for the ¼ sec. cor. of secs. 33 and 34 falls on inaccessible ledge. |
| | Cont. to asc. about 250 ft. over SW. facing ledges. |
| 23.40 | End of triangulation on N. rim of canyon, bears S. 80° W. and E. |
| 23.46 | Point selected for the witness ¼ sec. cor. of secs. 33 and 34. |

Portion of the Subdivision, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T40S R11E<br>¼<br>S33 \| S34<br>W C<br>1957 |
| | Asc. 115 ft. over broken SE. slope. |
| 35.40 | Short spur, projects E.; desc. 110 ft. over broken N. slope. |
| 46.10 | Small wash, drains S. 60° W.; asc. 140 ft. over broken SE. slope. |
| 51.77 | Spur, projects SW. |
| | Point selected for the witness cor. of secs. 27, 28, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.<br><br>T40S R11E<br>W C<br>S28 \| S27<br>S33 \| S34<br>1957 |
| 51.90 | E. rim of Alcove Canyon, bears N. 20° E. and S. 20° W.; by triangulation desc. about 40 ft. over NW. facing ledges. |
| 53.30 | True point for the cor. of secs. 27, 28, 33 and 34 falls on NW. facing ledge where it is impractical to set the monument.<br><br>Land, broken,<br>Soil, sandy, with exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 27 and 28.<br><br>Over broken canyon rim.<br><br>Desc. about 320 ft. over NW. facing ledges and 160 ft. over steep NW. slope. |
| 16.00 | Wash in bottom of Alcove Canyon, drains S. 30° W.; asc. about 490 ft. over steep SE. slope and ledges facing SE. |
| 40.00 | True point for the ¼ sec. cor. of secs. 27 and 28 falls on ledges of W. rim of Alcove Canyon where it is impractical to set the monument; asc. about 100 ft. over SE. facing ledge. |
| 43.70 | W. rim of Alcove Canyon, bears N. 50° E. and S. 80° W., thence over top of rim. |
| 43.81 | Point selected for the witness ¼ sec. cor. of secs. 27 and 28.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R11E<br>¼<br>S28 \| S27<br>W C<br>1957 |

| Chains | |
|---|---|
| | Asc. 485 ft. over broken SE. slope. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over broken land; asc. 55 ft. over broken SE. slope. |
| 9.80 | S. rim of mesa, bears N. 40° E. and S. 40° W.; desc. 55 ft. over rolling top of mesa. |
| 25.00 | N. rim of mesa, bears E. and W.; desc. 235 ft. over broken N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22 falls on steep N. slope where the monument cannot be perpetuated. |
| | Desc. 20 ft. over steep N. slope. |
| 40.47 | Point selected for the witness ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R11E<br>¼<br>S21 ↓ S22<br>W C<br>1957 |
| | Desc. 235 ft. over broken N. slope. |
| 64.60 | Wash, 20 lks. wide, 4 ft. deep, drains S. 40° W.; asc. 170 ft. along broken SE. slope. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>S16 \| S15<br>S21 \| S22<br>1957 |
| | Land, broken.<br>Soil, sand and exposed sandstone.<br>Timber, none. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Over rolling land; desc. 10 ft. |
| .30 | Top of small spur projecting E. 1 ch. to end; cont. over rolling land. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base, to top, with brass cap mkd. |
| | T40S R11E<br>¼<br>S16 \| S15<br>1957 |
| | Desc. 40 ft. over rolling land. |
| 45.70 | Low sandstone spur projecting E. 1 ch. to end; cont. over rolling land. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>S 9 \| S10<br>S16 \| S15<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over rolling land; asc. 35 ft. over gentle S. slope. |
| 39.82 | Point selected for the witness ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 12 ins. high, with brass cap mkd. |
| | T40S R11E<br>¼<br>W C<br>S 9 \| S10<br>1957 |
| | Asc. 25 ft. over steep S. face of sandstone knob. |
| 40.00 | True point for the ¼ sec. cor. of secs. 9 and 10 falls on a steep S. face of sandstone knob where it is impractical to set the monument. |
| 40.90 | Top of ascent on top of prominent sandstone knob; desc. 110 ft. over rolling N. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S R11E<br>S 4 \| S 3<br>S 9 \| S10<br>1957 |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none. |
| | N. 0° 17' W., bet. secs. 3 and 4. |
| | Over broken land; asc. 25 ft. over exposed sandstone. |
| 2.00 | Rim, bears E. and W.; desc. 80 ft. over N. slope. |
| 5.80 | Base of rim, bears E. and N.; desc. 290 ft. along broken E. slope. |
| 36.95 | Point selected for the witness ¼ sec. cor. of secs. 3 and 4. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>¼<br>W C<br>S 4 \| S 3<br>1957 |
| 37.20 | S. rim of canyon, bears N. 80° W. and curves S. 40° E.; by triangulation, desc. about 100 ft. over NE. facing ledges. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 4 falls on inaccessible ledges where it is impractical to set the monument. |
| | Cont. to desc. about 290 ft. over NE. facing ledges and steep N. slope. |
| 44.00 | Small wash, drains N. 40° W. approx. 6 chs. dist. to a junction with main wash. |
| | Asc. about 80 ft. over SW. slope. |
| 49.00 | Sandy spur, projects W.; desc. about 120 ft. over NW. slope. |
| 54.00 | Wash in bottom of canyon, drains S. 80° W.; asc. about 450 ft. over broken S. facing ledges. |
| 60.00 | N. rim of canyon, bears N. 80° E. and S. 80° W.; end of triangulation. Asc. 90 ft. over rolling S. slope. |
| 79.95 | The cor. of secs. 3, 4, 33 and 34 on the N. bdy. |
| | Land, rolling and broken.<br>Soil, sandy with exposed sandstone.<br>Timber, none. |
| | From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Over broken land, across exposed sandstone. |

Portion of the Subdivision, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| 1.90 | Spur, projects W. 2 chs. to end; desc. 100 ft. over S. slope. |
| 29.20 | Wash, 30 lks. wide, 3 ft. deep, drains W.; asc. 80 ft. over gentle N. slope. |
| 39.96 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.<br>T40S R11E<br>¼<br>S3\|S2<br>1957 |
| | No suitable accessories available. |
| | Asc. 25 ft. over gentle N. slope. |
| 55.10 | Base of steep and broken N. slope; asc. 160 ft. |
| 66.80 | W. tip of small sandstone point projecting W.; asc. 25 ft. over broken N. slope. |
| 68.10 | Crest of broken N. slope; asc. 15 ft. over gentle N. slope on top of ridge which bears NE. and SW. |
| 79.96 | Point for the cor. of secs. 2, 3, 10 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T40S R11E<br>S 3\|S 2<br>S10\|S11<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | S. 89° 56' E., bet. secs. 2 and 11, on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12, on the E. bdy., and the cor. of secs. 3, 4, 9 and 10, as specified in the special instructions. |
| | Along gentle N. slope on top of ridge; asc. 45 ft. |
| 32.60 | Slope changes to E.; desc. 50 ft. into pocket. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T40S R11E<br>¼ S 2<br>S11<br>1957 |
| | Desc. over E. slope. |

| Chains | |
|---|---|
| 41.00 | Flat drain in bottom of pocket, drains N.; asc. 140 ft. over broken W. slope. |
| 70.70 | W. crest of small bench; asc. 5 ft. over top of bench. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T40S R11E<br>S 2 \| S 1<br>S11 \| S12<br>1957 |
| | Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | North, bet. secs. 1 and 2. |
| | Over gentle N. slope of small bench; desc. 60 ft. |
| 17.20 | N. rim of small bench, bears E. and W.; desc. 125 ft. over broken N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R11E<br>¼<br>S 2 \| S 1<br>1957 |
| | Desc. 105 ft. over broken NW. slope. |
| 44.70 | Base of broken NW. slope, bears NE. and SW.; desc. 60 ft. over gentle NW. slope. |
| 64.30 | Wash, 30 lks. wide, 5 ft. deep, drains N. 70° W.; asc. gentle S. slope. |
| 79.92 | The cor. of secs. 1, 2, 35 and 36, on the N. bdy. |
| | Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | From the cor. of secs. 15, 16, 21 and 22. |
| | West, bet. secs. 16 and 21. |
| | Over rolling land; asc. 15 ft. over E. slope of sandstone knob. |
| 1.10 | Crest of sandstone knob; desc. 140 ft. over rolling W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T40S R11E<br>¼ S16/S21<br>1957 |
| | Desc. 150 ft. over irregular W. slope. |
| 78.03 | Point selected for the witness cor. of secs. 16, 17, 20 and 21.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R11E<br>W S17\|S16<br>C S20\|S21<br>1957 |
| | Asc. about 30 ft. over steep E. slope of sandstone knob. |
| 80.00 | True point for the cor. of secs. 16, 17, 20 and 21 falls on steep E. sloping slickrock where it is impractical to set the monument.<br><br>Land, rolling and broken.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |
| | N. 0° 03' W., bet. secs. 16 and 17.<br><br>Over broken land and exposed sandstone; asc. 190 ft. over SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R11E<br>¼<br>S17\|S16<br>1957 |
| | Asc. 60 ft. over rolling SW. slope of sand and exposed sandstone. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R11E<br>S 8\|S 9<br>S17\|S16<br>1957<br>Land, broken and rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered black brush. |

| Chains | |
|---|---|
| | From the cor. of secs. 9, 10, 15 and 16. |
| | S. 89° 59' W., bet. secs. 9 and 16. |
| | Over rolling land, of sand and exposed sandstone. |
| 40.03 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R11E<br>¼ S 9/S16<br>1957 |
| | Desc. 95 ft. over rolling land. |
| 80.06 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, rolling.<br>Soil, sand and exposed sandstone.<br>Timber, none.<br>Undergrowth, scattered growth of black brush. |
| | From the true point for the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., from which the meander cor. of sec. 33 bears E. 1.03 chs. dist., and is mkd. by an iron post, 1 in. diam., mkd., set and witnessed as described in the official record of the 1926 survey of T. 41 S., R. 11 E. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | By triangulation cross the San Juan River, course S. 26° W. on curve SE. |
| 21.56 | Mean high water level, on the right bank of the San Juan River, course S. 26° W. on a curve eastward. |
| | Point for the meander cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on bedrock, and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. |
| | T40S R11E<br>S32 \| S33<br>MC<br>1957 |
| | Asc. about 40 ft. over SE. slope. |
| 24.00 | Sandy spur, projects NE.; desc. about 80 ft. over sandy NW. slope. |
| 25.50 | Wash, drains SE. approx. 4 chs. dist. to a junction with the San Juan River. Asc. about 480 ft. over steep SW. slope and SW. facing ledge. |
| 34.00 | Canyon rim, bears NW. and SE.; thence asc. about 160 ft. along broken W. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 32 and 33 falls on steep W. sloping slickrock of sandstone knob where it is impractical to set the monument. |

Portion of the Subdivision, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| 40.43 | Point selected for the witness ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on bedrock, and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T40S R11E<br>¼<br>S32 \| S33<br>W C<br>1957 |
| | Asc. about 80 ft. along E. slope. |
| 60.00 | Rim, bears N. 20° W. and S. 20° E.; desc. about 240 ft. over NE. facing ledges. |
| 68,00 | Wash, near head, drains SE.; asc. about 240 ft. over SE. facing ledge. |
| 70.00 | Rim, curves SE. from SW.; asc. about 240 ft. along broken SE. facing ledges. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on bedrock, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. |
| | T40S R11E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Land, broken.<br>Soil, sandy with exposed sandstone.<br>Timber, none.<br>Undergrowth, heavy black brush. |
| | From the standard cor. of secs. 31 and 32 on the S. bdy. of the Tp., which is mkd. by an iron post, 2 ins. diam., mkd. set and witnessed as described in the official record of the 1926 survey of T. 41 S., R. 11 E. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Over rolling land, with a W. slope. |
| 8.40 | Rim, bears E. and W.; desc. 130 ft. over broken W. slope. |
| 24.40 | Small wash, drains NW.; asc. 45 ft. along W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T40S R11E<br>¼<br>S31 \| S32<br>1957 |
| | Cont. to asc. 60 ft. along W. slope. |
| 47.70 | Spur, projects W. 2 chs. to end; desc. 10 ft. along W. slope under W. rim of mesa. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T40S R11E<br>S30 \| S29<br>S31 \| S32<br>1957 |
| | Land, rolling.<br>Soil, sandy with exposed sandstone.<br>Timber, none.<br>Undergrowth, heavy black brush. |
| | From the cor. of secs. 28, 29, 32 and 33. |
| | N. 89° 59' W., bet. secs. 29 and 32. |
| | Over broken land; asc. 250 ft. over SE. slope and ledges facing SE. |
| 7.90 | Rim, bears N. 20° E. and S. 20° W.; asc. 55 ft. over SE. slope. |
| 12.40 | E. crest of mesa, bears SW. and NE.; desc. 10 ft. over rolling top of mesa. |
| 14.40 | Unimproved road, bears N. 40° W.; cont. over rolling land. |
| 26.30 | W. crest of mesa, bears NE. and SW.; desc. 85 ft. over NW. slope. |
| 38.00 | Small wash, drains NW.; asc. over gentle NE. slope. |
| 39.93 | Point for the ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in exposed bedrock, and supported in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. |
| | T40S R11E<br>¼ S29<br>S32<br>1957 |
| | Asc. 40 ft. over gentle NE. slope. |
| 44.90 | Low spur, slopes N. 2 chs. to end; desc. 30 ft. along N. slope. |
| 61.60 | Small wash, drains N.; asc. 50 ft. over gentle E. slope. |
| 69.30 | E. crest of mesa, bears N. and S., thence over rolling top of mesa. |
| 73.20 | W. crest of mesa, bears N. and S.; desc. 60 ft. over W. slope. |
| 79.86 | The cor. of secs. 29, 30, 31 and 32. |
| | Land, broken and rolling.<br>Soil, sandy, with exposed sandstone.<br>Timber, none.<br>Undergrowth, black brush. |

Meander of the Right Bank of the San Juan River
through Sec. 32, T. 40 S., R. 11 E.

| Chains | |
|---|---|
| | From the meander cor. of secs. 32 and 33, on the right bank of the San Juan River. |
| | Thence down stream with meander of the right bank of river in sec. 32. |
| | Along steep talus slope which extends to water edge, at mean high water mark. |
| | S. 26° 20' W., 13.62 chs. |
| | S. 4° 12' W., 9.36 chs., the meander cor. of sec. 32 on the S. bdy. of the Tp. |
| | Land, steep talus slope.<br>Soil, sand, rocks and exposed sandstone.<br>Timber, none.<br>Undergrowth, medium growth of willows along river edge. |

General Description

The land of T. 40 S., R. 11 E. is principally of rolling mesa being broken in several areas by deep canyons. The township has a general SW. exposure and drainage. The elevation ranges from 3400 ft. above sea level along the San Juan River in sec. 32 to approximately 5000 ft. above sea level on a small mesa along the east boundary of sec. 1.

The rolling mesa land is broken by five rather large unnamed canyons. The first heads along the east boundary of the township in the area of sec. 1, draining S. and W. to leave the township at the south boundary approximately 16 chains W. of the SW. cor. of sec. 35, The second canyon enters the township at the east boundary approximately 15 chains S. of the NE. cor. of sec. 24, draining SW. to a junction with the first canyon at a point approximately 12 chains E. of the SW. cor. of sec. 35. The San Juan River, which is a meanderable stream under surveying rules, enters the township at the S. boundary near the ¼ sec. cor. of sec. 34, draining NW. approximately 1½ miles, thence curves S. forming the Great Bend of the San Juan River, to leave the township at the S. boundary near the SW. corner of sec. 33. Alcove Canyon heads in the area of sec. 22, draining SW. approximately 2 miles to a junction with the San Juan River at a point approximately 20 chains NW. of the ¼ sec. cor. of secs. 33 and 34. The Colorado River, a meanderable stream under surveying rules, enters the township at the north boundary near the ¼ sec. corner of secs. 6 and 31, draining SW. and curving NW. in a meander to leave the township near the NW. corner. A large tributary to the Colorado River enters the township at the north boundary approximately 25 chains W. of the NE. corner of sec. 2, draining S. approximately ½ mile, thence W. and slightly N. to a junction with the Colorado River near the ¼ sec. corner of secs. 6 and 31 on the north boundary. These canyons attain a maximum depth of 1000 ft. and are rimmed by inaccessible vertical walls throughout most of their lengths.

The soil of T. 40 S., R. 11 E. is principally a shallow residual sandy silt, with numerous sandstone outcroppings. The vegetational cover consists of scattered black brush, gama grass and cacti. There is no timber on the township.

There are no roads in or within the vicinity of the township and this survey was executed by the use of helicopters.

The permanent water noted in the township during the survey was that of the San Juan River, which flows through secs. 33 and 34, the Colorado River in sec. 6 and a small natural lake in sec. 19, which is a tributary of the Colorado River. It is also probably that there are intermittent seeps along the lower reaches of the large tributary canyons, but none were noted during the survey.

Township 40 South, Range 11 West

Chains

There has been some prospecting for uranium and related minerals along the canyons, but no producing mines or patented claims were noted during the survey. Because of the sparse vegation the land affords poor grazing for which it is now utilized.

4-680
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Eldon W. Sibley | Principal Assistant |
| Farrell D. Reynolds | Chainman |
| James E. Jepson | Flagman |
| Peter K. Bailey | Cornerman |

# CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27 day of August, 1956, I have surveyed the north and east boundaries, a portion of the subdivision and the meanders of the right bank of the San Juan River through sec. 32 of T. 40 S., R. 11

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 4, 1958

Salt Lake City, Utah

Craig P. Sylvester
Craig P. Sylvester
Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—53865-8

# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 1956 I have ~~personally~~ supervised the survey of the north and east boundaries, a portion of the subdivision and the meanders of the right bank of the San Juan River through sec. 32, of T. 40 S., R. 11 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed under my supervision ~~by me and under my direction~~; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 4, 1958
Salt Lake City, Utah

Vern E. Lane
Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
*Washington, D. C.,* SEP 22 1958, *19*

The foregoing field notes of the survey of the north and east boundaries, a portion of the subdivision and the meanders of the right bank of the San Juan River through sec. 32 of T. 40 S., R. 11 E., SLM, Utah

executed ~~by~~ under the supervision of Vern E. Lane (Chief of Party)

having been critically examined and found correct, are hereby approved.

Earl B. Harrington
*Cadastral Engineering Staff Officer.*

## ~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 40 S., R. 11 E., Salt Lake Mer., is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer.~~

4—GTO
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY

OF

THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 40 SOUTH, RANGE 12 EAST

*Of the* Salt Lake *Meridian,*

*In the State of* Utah

EXECUTED BY

Vern E. Lane - Cadastral Surveyor (Chief of Party)

Fred R. Chappell - Cadastral Surveyor

*Under special instructions dated* August 27, *1956, which provided for the surveys included under Group No.* 404, *approved* November 7, 1956 *and assignment instructions dated* July 30, *1957*

*Survey commenced* August 12, *1957*

*Survey completed* August 22, *1957*

U. S. GOVERNMENT PRINTING OFFICE 16—86770-1

# INDEX DIAGRAM

*Township* 40 South, *Range* 12 East

| | | | | | |
|---|---|---|---|---|---|
| 5<br>6 | 5<br>5 | 4<br>4 | 3<br>11 3 | 2<br>12 2 | 1<br>13 1 |
| 7 | 8 | 9 | 11 10 | 13<br>11 | 12 |
| 18 | 17 | 15<br>15 16 | 10 15 | 14 | 13 |
| 19 | 20 | 14<br>21 | 9 22 | 23 | 24 |
| 30 | 29 | 28 | 8 27 | 26 | 25 |
| 31 | 18<br>17 32 | 16 33 | 8 34 | 35 | 7<br>6 36 |

16—56770-1

2320

Township 40 South, Range 12 East

Chains

The south boundary, the 8th Standard Parallel South, was surveyed by C.F. Moore, W.W. Bandy and E.S.C. Smith in 1926 and is described in the field notes of the survey of the 8th Standard Parallel South through R. 12 E. The east boundary was surveyed by R. C. Yundt in 1930 and is described in the field notes of the survey of the Range Line between Rs. 12 and 13 E., T. 40 S. The west boundary was surveyed by C. P. Sylvester concurrently under this same group, and is described in the field notes of the survey of T. 40 S., R. 11 E.

The following field notes are those of the survey of the north boundary and a portion of the subdivisional lines of T. 40 S., R. 12 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections normally considered State school sections.

The survey was executed with a W. and L. E. Gurley solar transit, serial number 541327, constructed in accordance with standard specifications of the Bureau of Land Management. The instrument was in good condition, having been placed in proper adjustment prior to the beginning of the field work. It was tested and checked frequently during the progress of the survey.

The direction of all lines being reported are determined by deflecting from meridians established by observations upon Polaris and the sun throughout the survey.

Corners on latitudinal lines were set on the true latitudinal curve. Lines connecting previously established courses were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

The measurements were made with a steel tape, 8 chains in length. This tape was graduated every link for the first chain, and thereafter at intervals of 10 links. The tapes were tested by comparison with a standard steel tape, 1 chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by use of clinometers and the slope distances properly reduced to horizontal equivalents. All lines of this survey were run by direct methods where the lines are accessible; inaccessible lines were run by traverse or by triangulation methods. The details of such traverses or triangulations have been thoroughly verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The geographic value for the southeast corner of the township is latitude 37° 15' 51.905" N. and longitude 110° 31' 40.879" W., as adjusted by traverse from the several U.S.G.S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of the several readings was found to be 15° 00' E.

North Boundary of T. 40 S., R. 12 E.

Beginning at the cor. of Ts. 39 and 40 S., Rs. 12 and 13 E., mkd. by an iron post, 3 ins. diam., conforming to the record.

N. 89° 54' W., bet. secs. 1 and 36.

Over gently rolling desert land, through scattered timber and scant undergrowth.

| Chains | |
|---|---|
| | Asc. 40 ft. over an E. slope. |
| 9.60 | Point of sand spur, projects N., thence over a gentle W. slope. |
| 30.30 | Small sand spur, projects N. 20° E. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |
| | T39S R12E<br>¼ S36 / S 1<br>T40S<br>1957 |
| | Deposit charcoal at the base of the post. |
| | Desc. 40 ft. over a gentle W. slope. |
| 72.60 | Unimproved dirt road, bears NE. and SW.; asc. 60 ft. over an E. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | On top of a knoll |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |
| | T39S R12E<br>S35 \| S36<br>S 2 \| S 1<br>T40S<br>1957 |
| | Land, rolling desert.<br>Soil, sand with exposed sandstone.<br>Timber, widely scattered juniper and timber.<br>Undergrowth, black brush, sagebrush, mountain rush, grass and weeds. |
| | N. 89° 54' W., bet. secs. 2 and 35. |
| | Over gently rolling desert land, through scattered timber and scant undergrowth. |
| | Desc. 80 ft. over a gentle W. slope. |
| 18.80 | Wash, 10 lks. wide, 3 ft. deep, drains N. 20° W.; desc. 20 ft. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R12E<br>¼ S35 / S 2<br>T40S<br>1957 |
| | Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post. |
| | Asc. 30 ft. |

North Boundary, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| 49.50 | Sandstone knob; desc. 130 ft. over a gentle W. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd. |
| | T39S R12E<br>S34 \| S35<br>S 3 \| S 2<br>T40S<br>1957 |
| | Deposit a sandstone, 4x4x3 ins., mkd. with a cross (X) at the base of the post. |
| | Land, gently rolling desert.<br>Soil, sandy clay, with some exposed sandstone.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, medium black brush, sagebrush, yellow top and grass. |
| | N. 89° 54' W., bet. secs. 3 and 34. |
| | Over rolling desert land, through scattered timber and medium undergrowth. |
| | Desc. 80 ft. over a W. slope. |
| 15.60 | Wash, 20 lks. wide, 3 ft. deep, drains SW.; desc. 40 ft. |
| 28.00 | Same wash, drains NW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |
| | T39S<br>¼ S34<br>S 3<br>T40S<br>1957 |
| | Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post. |
| | Asc. 100 ft. over sandstone slickrock. |
| 43.10 | N. side of sandstone knob; desc. 15 ft. |
| 50.00 | Head of draw, drains SW.; desc. 90 ft. over a W. slope of sandstone slickrock. |
| 71.60 | Point for the witness cor. of secs. 3, 4, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd. |
| | T39S R12E<br>WC S33 \| S34<br>S 4 \| S 3<br>T40S<br>1957 |
| | Thence across canyon by triangulation, with approx. topography taken from a geological survey map. |

| Chains | |
|---|---|
| 75.00 | Bottom of canyon, drains NW. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34 falls on the steep slope of a sandstone ledge, where the cor. cannot be perpetuated.<br><br>Land, broken desert.<br>Soil, sandy clay, with the greater portion sandstone slickrock.<br>Timber, widely scattered dwarf juniper and pinion, with some cottonwood in the canyon bottom.<br>Undergrowth, scant black brush, bitter brush and sagebrush. |
| | N. 89° 54' W., bet. secs. 4 and 33.<br><br>Over badly broken desert land, through widely scattered timber and scant undergrowth, over a series of sandstone knobs, ribs and crevices. |
| 32.30 | E. side of a high sandstone knob; desc. 280 ft. over sandstone slickrock. |
| 40.00 | Point for the ¼ sec. cor. of secs. 4 and 33 falls in the bottom of a wash, draining NW., where the cor. cannot be perpetuated. |
| 44.70 | Point for the witness ¼ sec. cor. of secs. 4 and 33.<br><br>On a small sand spur projecting N.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>¼ S33<br>S 4<br>T40S<br>W C<br>1957<br><br>Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.<br><br>Asc. 40 ft. over an E. slope. |
| 49.50 | Saddle in sandstone spur, projects NE.; desc. 40 ft. |
| 54.00 | Wash, drains NE.; asc. 210 ft. along a broken N. slope. |
| 79.80 | Ledge, 25 ft. high, faces NW. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R12E<br>S32 \| S33<br>S 5 \| S 4<br>T40S<br>1957<br><br>Land, badly broken desert.<br>Soil, sand in the canyon bottom, exposed sandstone the balance.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush and sagebrush. |

North Boundary of T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | N. 89° 54' W., bet. secs. 5 and 32. |
| | Over badly broken desert, through scattered timber and scant undergrowth. |
| | Asc. 150 ft. over a series of sandstone knobs and crevices. |
| 17.30 | High sandstone knob; desc. 130 ft. over a broken W. slope. |
| 22.00 | Draw, drains NW.; asc. 150 ft. over sandstone slickrock. |
| 39.87 | Point for the witness ¼ sec. cor. of secs. 5 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R12E<br>WC ¼ S32 / S 5<br>T40S<br>1957 |
| 40.00 | True point for the ¼ sec. cor. of secs. 5 and 32 falls on the steep slope of a sandstone ledge, where the cor. cannot be perpetuated; asc. 100 ft. over a broken E. slope. |
| 50.00 | Sandstone spur, projects N.; desc. 40 ft. over a W. slope. |
| 60.00 | Draw, drains N.; asc. 50 ft. over an E. slope. |
| 71.20 | Sandstone spur, projects NE.; desc. 90 ft. over a W. slope. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. |
| | T39S R12E<br>S31 \| S32<br>S 6 \| S 5<br>T40S<br>1957 |
| | Deposit charcoal at the base of the post. |
| | Land, badly broken desert.<br>Soil, sand in the pockets, exposed sandstone the balance.<br>Timber, widely scattered juniper and pinion.<br>Undergrowth, scant black brush, sagebrush, wild apple and mountain rush. |
| | N. 89° 54' W., bet. secs. 6 and 31. |
| | Over broken desert land, through widely scattered timber and scant undergrowth. |
| | Desc. 150 ft. over a broken W. slope. |
| 32.30 | Sandstone spur, projects NW.; desc. 60 ft. over a W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T39S R12E<br>¼ S31 / S 6<br>T40S<br>1957 |
| | Asc. 20 ft. |
| 45.30 | Sandstone rib, projects NE.; desc. 90 ft. over a W. slope. |
| 54.10 | Head of draw, drains NW.; thence over a series of sandstone ribs and knobs. |
| 76.00 | N. slope of high sandstone knob; desc. 20 ft. over a W. slope. |
| 78.75 | The cor. of Ts. 39 and 40 S., Rs. 11 and 12 E., mkd. by an iron post, 2½ ins. diam., as described in the field notes of T. 40 S., R. 11 E., surveyed concurrently under this same group.<br><br>Land, broken desert.<br>Soil, sand with the greater portion exposed sandstone.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush and wild apple. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| | |
|---|---|
| | Beginning at the standard cor. of secs. 35 and 36 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record. |
| | N. 0° 01' W., bet. secs. 35 and 36.. |
| | Over badly broken desert land, through scant undergrowth; desc. 40 ft. over a N. slope. |
| 1.00 | Small sandstone draw, drains E.; asc. 100 ft. over a broken S. sandstone slope. |
| 8.20 | Sandstone spur, projects E.; desc. 350 ft. over a series of sandstone ribs, spurs and draws, putting to the E. |
| 40.00 | Point for the ¼ sec. cor. of secs. 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R12E<br>¼<br>S35 \| S36<br>1957 |
| | Desc. 150 ft. over a broken N. slope. |
| 42.20 | Draw, drains SE.; asc. 200 ft. over a S. slope. |
| 49.20 | Spur, projects E., thence across a rocky swale; asc. 120 ft. over a S. slope. |
| 62.20 | Small saddle on sandstone spur, projecting E.; desc. 100 ft. over a broken N. slope. |
| 66.20 | Wash, drains NE.; asc. 80 ft. over a S. slope. |

| Chains | |
|---|---|
| 75.00 | Small spur, projects E.; desc. 60 ft. over a N. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T40S R12E<br>S26 \| S25<br>S35 \| S36<br>1957<br><br>Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.<br><br>Land, badly broken desert.<br>Soil, sandstone slickrock, with a small amount of sandy clay surface dirt.<br>Timber, none.<br>Undergrowth, widely scattered bitter brush and yucca. |
| | Beginning at the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record.<br><br>N. 89° 53' W., bet. secs. 25 and 36..<br><br>Over badly broken desert land, through widely scattered dwarf juniper and pinion and scant undergrowth.<br><br>Desc. 260 ft. over sandstone slickrock. |
| 19.00 | Rim of sandstone knobs forming the E. rim of canyon, bears generally N. and S., thence across canyon by triangulation. Topography taken from geological survey map; desc. 300 ft. over a series of ledges and knobs facing to the W. |
| 39.95 | Point for the ¼ sec. cor. of secs. 25 and 36 falls on inaccessible sandstone cliffs, counting distance from the true point for the ¼ sec. cor of secs. 25 and 36; desc. 260 ft. over ledges facing to the W. |
| 55.00 | Castle Creek in bottom of canyon, stream of good water, 2 lks. wide, 3 ins. deep, drains S.; asc. 150 ft. over a broken E. slope. |
| 55.70 | Point of spur, projects E. |
| 56.00 | Point selected for the witness ¼ sec. cor. of secs. 25 and 36.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R12E<br>¼ S25 →<br>S36<br>W C<br>1957<br><br>Asc. 270 ft. over a broken E. slope. |
| 75.80 | Spur, projects NE.; desc. 20 ft. over a NW. slope. |
| 79.90 | The cor. of secs. 25, 26, 35 and 36.<br><br>Land, badly broken desert.<br>Soil, sandy clay, with the greater portion sandstone slickrock.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, yucca and grass. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | Beginning at the standard cor. of secs. 33 and 34 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Over broken desert land, through scattered timber and scant undergrowth. |
| | Asc. 20 ft. over a S. slope. |
| 4.00 | Top of ascent, spur ridge projects W.; desc. 210 ft. over a N. slope. |
| 21.00 | Deep draw, drains S. 50° W.; asc. 90 ft. over a SE. slope. |
| 28.30 | Spur, projects SW.; desc. 80 ft. along a W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T40S R12E<br>¼<br>S33 \| S34<br>1957 |
| | Desc. 40 ft. along a W. slope. |
| 50.20 | Bottom of deep draw, drains SW.; asc. 160 ft. along a SE. slope. |
| 61.00 | Sandstone rim, bears NE. and SW.; asc. 60 ft. along a SE. slope. |
| 73.50 | Spur, projects W.; desc. 40 ft. over a W. slope. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R12E<br>S28 \| S27<br>S33 \| S34<br>1957 |
| | Land, broken desert.<br>Soil, sandy clay, with the greater portion exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant sagebrush, black brush, bitter brush, yucca and grass. |
| | N. 0° 02' W., bet. secs. 27 and 28. |
| | Over rolling and broken desert, through scattered timber and scant undergrowth. |
| | Desc. 180 ft. along a W. slope. |
| 35.00 | Draw, drains SW.; asc. 80 ft. along a SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | T40S R12E<br>¼<br>S28 \| S27<br>1957 |
| | Asc. 50 ft. over a SE. slope. |
| 45.60 | Small spur, projects SW.; desc. 90 ft. |
| 56.00 | Draw, drains SW.; asc. 120 ft. over a W. slope. |
| 77.90 | Wagon road on spur, bears SW. and NE. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R12E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, broken desert.<br>Soil, sandy clay, with the greater portion exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, apple brush, mountain rush and grass. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Over broken desert land, through scattered timber and scant undergrowth. |
| | Desc. 50 ft. along a W. slope. |
| 8.00 | Sandstone wash, 20 lks. wide, 1½ ft. deep, drains SW. 2.50 chs., thence NW.; continue along a W. slope. |
| 32.20 | Wash, 15 ft. wide, 4 ft. deep, drains SW.; continue along a W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R12E<br>¼<br>S21 \| S22<br>1957 |
| | Asc. 40 ft. over a SE. slope. |
| 46.80 | Spur, projects SW.; desc. 40 ft. along a W. slope. |
| 65.70 | Draw, drains SW.; asc. 60 ft. along a W. slope. |
| 73.50 | Dirt road, bears E. and W. |
| 75.00 | Spur, projects W.; desc. 50 ft. over a W. slope. |
| 79.40 | Same road, bears NE. and SW. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R12E<br>S16 \| S15<br>S21 \| S22<br>1957<br><br>Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.<br><br>Land, broken desert.<br>Soil, sandy clay, with the greater portion exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, yucca and widely scattered grass. |
| | N. 0° 02' W., bet. secs. 15 and 16.<br><br>Over rolling and broken desert, through scattered timber and scant undergrowth; desc. 30 ft. along a W. slope. |
| 9.10 | Dirt road, unimproved, bears NW. and SE.; asc. 60 ft. over a S. slope. |
| 27.90 | Spur, projects NW.; desc. 110 ft. along a broken NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R12E<br>¼<br>S16 \| S15<br>1957<br><br>Desc. 270 ft. over a broken W. changing to N. slope. |
| 64.80 | Same road, bears NE. and SW.; desc. 80 ft. over a N. slope. |
| 68.40 | Draw, drains NE.; asc. 50 ft. over a SE. slope. |
| 77.00 | Sandstone spur, projects E.; desc. 40 ft. over a NE. slope. |
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16.<br><br>In a small sandstone drain, draining to the E.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T40S R12E<br>S 9 \| S10<br>S16 \| S15<br>1957<br><br>Land, broken desert.<br>Soil, sandy clay, with the greater portion exposed sandstone.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, mountain rush, wild apple and grass. |

| Chains | |
|---|---|
| | N. 0° 02' W., bet. secs. 9 and 10. |
| | Over badly broken desert land, through widely scattered timber and scant undergrowth. |
| | Asc. 130 ft. over a SE. slope. |
| 6.60 | Sandstone spur, projects E.; desc. 220 ft. over a series of sandstone ribs and draws, putting to the E. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R12E<br>¼<br>S 9 \| S10<br>1957 |
| | Deposit a sandstone, 5x4x2 ins., mkd. with a cross (X) at the base of the post. |
| | Desc. 75 ft. over a broken E. slope. |
| 51.50 | Sandstone draw, drains E.; asc. 60 ft. over a broken E. slope. |
| 74.00 | W. slope of a sandstone knob; desc. 240 ft. over a broken NW. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10 falls in the bottom of a sandstone draw; draining NE., where the cor. cannot be perpetuated. |
| | Land, badly broken desert.<br>Soil, exposed sandstone, with some sandy clay in the pockets.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, scant bitter brush, yucca and black brush. |
| | N. 0° 15' W., bet. secs. 3 and 4. |
| | Over badly broken desert land, through widely scattered dwarf timber and scant undergrowth; asc. 50 ft. over a SE. sandstone slope. |
| 1.53 | Point selected for the witness cor. of secs. 3, 4, 9 and 10. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R12E<br>S 4 \| S 3<br>S 9 \| S10<br>W C<br>1957 |
| | Desc. 150 ft. along a broken E. slope. |
| 11.50 | Wash, drains SE.; asc. 70 ft. over a broken SE. slope. |
| 17.50 | Sandstone saddle, bears E. and W.; desc. 180 ft. over a broken N. slope. |
| 22.95 | Draw, drains N. 50° W.; asc. 20 ft. |
| 23.45 | Point selected for the witness ¼ sec. cor. of secs. 3 and 4. |
| | On a small sandstone rib<br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X), and in a mound of stone, with brass cap mkd. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | T40S R12E<br>¼<br>S 4 \| S 3<br>W C<br>1957 |
| | Thence over a series of sandstone ribs, knobs and crevices. |
| 40.00 | True point for the ¼ sec. cor. of secs. 3 and 4 falls on the steep slope of a sandstone knob, where the cor. cannot be perpetuated. |
| | Continue over broken sandstone. |
| 79.59 | True point for the cor. of secs. 3, 4, 33 and 34. |
| | Land, badly broken desert.<br>Soil, exposed sandstone, with a little sand in the bottom of the pockets.<br>Timber, widely scattered dwarf juniper.<br>Undergrowth, scant bitter brush and black brush. |
| | Beginning at the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township. |
| | S. 0° 01' E., bet. secs. 2 and 3. |
| | Over rolling and broken desert land, through scattered timber and scant undergrowth, along a W. slope of sand and sandstone outcroppin |
| 25.50 | Wash, 10 lks. wide, 3 ft. deep, drains NW.; asc. 70 ft. along a W. slope. |
| 39.73 | Point for the ¼ sec. cor. of secs. 2 and 3. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, wit brass cap mkd. |
| | T40S R12E<br>¼<br>S 3 \| S 2<br>1957 |
| | Thence along a W. slope. |
| 45.00 | Wash, 8 lks. wide, 3 ft. deep, drains NW., 2.00 chs., thence W. |
| | Asc. 210 ft. along a W. slope, over barren sandstone. |
| 68.00 | Sandstone spur, projects W.; desc. 40 ft. along a W. slope of barren sandstone. |
| 79.73 | Point for the cor. of secs. 2, 3, 10 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, with brass cap mkd. |
| | T40S R12E<br>S 3 \| S 2<br>S10 \| S11<br>1957 |
| | Land, rolling the first ½ mile, broken the balance.<br>Soil, sand and exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, mountain rush and grass. |

| Chains | |
|---|---|
| | S. 89° 48' E., bet. secs. 2 and 11. |
| 0.80 | Sandstone rib, projects SW.; desc. 40 ft. along a S. slope of sandstone slickrock. |
| 15.00 | Wash, 10 lks. wide, 2 ft. deep, drains SW.; asc. 150 ft. along a S. changing to W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 11. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R12E<br>¼ S 2 / S11<br>1957 |
| | Asc. 25 ft. over a W. slope. |
| 43.00 | Sandstone spur, projects S.; desc. 160 ft. along a broken S. slope of barren sandstone. |
| 67.40 | Improved road in bottom of draw, draining SW., bears SW. and NE.; asc. 70 ft. over a W. slope. |
| 76.50 | Sandstone spur, projects SW.; desc. 30 ft. along an E. slope. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R12E<br>S 2 \| S 1<br>S11 \| S12<br>1957 |
| | Deposit a sandstone, 3x3x2 ins., mkd. with a cross (X) at the base of the post. |
| | Land, broken.<br>Soil, exposed sandstone, with a small portion of sand.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, mountain rush and grass. |
| | N. 0° 07' E., bet. secs. 1 and 2. |
| | Over broken desert land, through widely scattered timber and scant undergrowth. |
| | Asc. 30 ft. over a S. slope. |
| 3.40 | Sandstone spur, projects SW.; desc. 20 ft. |
| 12.00 | Small draw, drains SW.; asc. 40 ft. over an E. slope. |
| 15.00 | E. edge of high sandstone knoll; asc. 10 ft. over an E. slope. |
| 22.50 | Top of ascent; desc. 70 ft. over a gentle N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | T40S R12E<br>¼<br>S 21 S 1<br>1957 |
| | Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base o the post. |
| | Desc. 20 ft. over a N. slope. |
| 55.70 | Unimproved road, bears NE, and SW.; desc. 30 ft. over a N. slope. |
| 66.90 | Bottom of swale, drains W.; asc. 30 ft. over a S, slope. |
| 79.79 | The cor. of secs. 1, 2, 35 and 36. |
| | Land, broken the first 20.00 chs., rolling the balance.<br>Soil, sandy clay, with exposed sandstone.<br>Timber, widely scattered dwarf juniper and pinion. |
| | Beginning at the cor. of secs. 15, 16, 21 and 22. |
| | West, bet. secs. 16 and 21. |
| | Over rolling desert land, through scattered timber and scant undergrowth. |
| | Desc. 190 ft. over a gentle W. slope of sandstone. |
| 31.00 | Head of draw, drains SW.; asc. 30 ft. |
| 39.20 | Spur, projects SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, wit brass cap mkd. |
| | T40S R12E<br>¼ S16 / S21<br>1957 |
| | Desc. 220 ft. over a gentle W. sandstone slope. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21 falls on a sandstone boulder, where the cor. cannot be perpetuated. |
| 80.10 | Point for the witness cor. of secs. 16, 17, 20 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, wit brass cap mkd. |
| | T40S R12E<br>S17 \| S16<br>S20 \| S21 WC<br>1957 |
| | Land, rolling desert.<br>Soil, exposed sandstone, with a small portion of sandy clay in the pockets.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant bitter brush, yucca and grass. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | From the true point for the cor. of secs. 16, 17, 20 and 21. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over rolling desert land, through scattered timber and scant undergrowth. |
| | Asc. 10 ft. over a S. slope. |
| 4.20 | Spur, projects SW.; desc. 100 ft. over a gentle W. slope. |
| 22.90 | Draw, drains SW.; asc. 30 ft. |
| 27.00 | Small spur, projects W.; desc. 30 ft. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T40S R12E<br>¼<br>S17 \| S16<br>1957 |
| | Desc. 35 ft. along a W. slope. |
| 51.10 | Wash, 10 lks. wide, 2 ft. deep, drains SW.; asc. 90 ft. along a gentle SW. slope. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.<br>T40S R12E<br>S 8 \| S 9<br>S17 \| S16<br>1957 |
| | Deposit a sandstone, 5x3x2 ins., mkd. with a cross (X) at the base of the post. |
| | Land, rolling desert.<br>Soil, exposed sandstone and sandy clay.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, mountain rush and grass. |
| | Beginning at the cor. of secs. 9, 10, 15 and 16. |
| | S. 89° 58' W., bet. secs. 9 and 16. |
| | Over rolling desert land, through scattered timber and medium undergrowth. |
| | Asc. 200 ft. over an E. slope. |
| 23.00 | Top of ascent; desc. 110 ft. over a W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4½ ft. base to top, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S R12E<br>¼ S 9<br>S16<br>1957 |
| | Desc. 120 ft. over a W. slope. |
| 63.90 | Wash, 10 lks. wide, 3 ft. deep, drains SW. |
| 80.00 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, rolling desert.<br>Soil, sandy clay, with exposed sandstone.<br>Timber, scattered dwarf juniper and pinion.<br>Undergrowth, scant black brush, bitter brush, mountain rush and grass. |
| | Beginning at the standard cor. of secs. 32 and 33 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Over badly broken desert land, through scattered timber and scant undergrowth. |
| 0.10 | Rim of canyon, bears NE. and SW., thence across canyon by triangulation Topography approx. as taken from Geological topographic map; desc. 480 ft. over a ledgy NW. slope. |
| 12.00 | Bottom of canyon, drains SW.; asc. 400 ft. over a broken SW. slope. |
| 24.00 | Spur, projects SW.; desc. 160 ft. over a NW. slope of sandstone slick-rock. |
| 39.70 | Point for the witness ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, with brass cap mkd. |
| | T40S R12E<br>¼<br>W C<br>S32↑S33<br>1957 |
| 39.90 | S. rim of canyon, bears SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 32 and 33 falls on the steep slope of a sandstone ledge, where the cor. cannot be perpetuated; desc. 80 ft. over sandstone slickrock facing NW. |
| 44.00 | Bottom of canyon, drains SW.; asc. 90 ft. over a SE. sandstone slope. |
| 48.80 | Sandstone spur, projects SW.; desc. 60 ft. |
| 59.30 | Bottom of canyon, drains SW.; asc. 220 ft. over a sandstone slope, facing SE. |
| 76.00 | Sandstone rim of canyon, bears NE. and SW.; asc. 30 ft. over a S. slope. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S R12E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Land, badly broken desert.<br>Soil, barren sandstone, with a small portion of sandy clay.<br>Timber, widely scattered dwarf juniper and pinion.<br>Undergrowth, very scant black brush, bitter brush and yucca. |
| | Beginning at the standard cor. of secs. 31 and 32 on the S. bdy. of the townshipm mkd. by an iron post, 2 ins. diam., conforming to the record. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Over broken desert land, through widely scattered timber and scant undergrowth. |
| | Desc. 30 ft. along a gentle NW. slope. |
| 7.80 | Spur, projects W., thence across canyon by triangulation. |
| 19.00 | Wash, drains SW. |
| 29.50 | N. rim of canyon, sandstone ledges, 150 ft. high, bear E. and W.; desc. 50 ft. over a series of sandstone ribs and knobs. |
| 40.00 | Point for the ¼ sec. cor. of secs. 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T30S R12E<br>¼<br>S31 \| S32<br>1957 |
| | Continue over sandstone slickrock. |
| 51.60 | S. rim of canyon, sandstone ledges, 200 ft. high, bear NE. and SW.; thence across canyon by triangulation. |
| 62.50 | Wash in canyon, drains SW. |
| 71.50 | N. rim of canyon and spur, projects S. 53° W., 4.50 chs. to end, thence along a gentle W. slope. |
| 79.80 | Point for the witness cor. of secs. 29, 30, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd. |
| | W C<br>T30S R12E<br>S30 \| S29<br>S31 \| S32<br>1957 |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32 falls on the edge of a sandstone ledge, where the cor. cannot be perpetuated. |
| | Land, badly broken desert.<br>Soil, exposed sandstone, with a small portion of sandy clay.<br>Timber, widely scattered dwarf juniper.<br>Undergrowth, scant bitter brush, black brush, yucca and grass. |

Portion of the Subdivision, T. 40 S., R. 12 E.

| Chains | |
|---|---|
| | Beginning at the cor. of secs. 28, 29, 32 and 33. |
| | N. 89° 58' W., bet. secs. 29 and 32. |
| | Over broken desert land, through widely scattered timber and very scant undergrowth. |
| | Desc. 290 ft. over a NW. slope. |
| 23.80 | Sandstone wash, 40 lks. wide, 6 ft. deep, drains SW.; asc. 190 ft. over a SE. sandstone slope. |
| 29.00 | High sandstone knob; desc. 160 ft. over a series of sandstone knobs. |
| 39.99 | Point for the ¼ sec. cor. of secs. 29 and 32 falls on the steep slope of a sandstone knob, where the cor. cannot be perpetuated. |
| 41.08 | Point for the witness ¼ sec. cor. of secs. 29 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam,, 6 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R12E<br>¼ $\xrightarrow[\text{S32}]{\text{S29}}$ WC<br>1957 |
| | Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post. |
| | Desc. 240 ft. over a W. slope. |
| 55.00 | Bottom of canyon, drains SW.; asc. 200 ft. over broken SE. slope. |
| 76.00 | Spur, projects S., 5.00 chs., thence SW.; desc. 70 ft. over W. slope. |
| 79.98 | The true point for the cor. of secs. 29, 30, 31 and 32. |
| | Land, broken desert.<br>Soil, exposed sandstone, with a small portion of sandy clay.<br>Timber, widely scattered dwarf juniper.<br>Undergrowth, very scant black brush, bitter brush and yucca. |

## GENERAL DESCRIPTION

With the exception of the NE. cor. of T. 40 S., R. 12 E., the township is rugged and broken land. The most conspicuous topographic feature is Nakai Dome, an anticline bearing approx. N. 20° W. and S. 20° E. through the entire length of the central portion of the township. This anticline is capped with a small butte in sec. 34, with an elevation of 6,081 ft. above sea level, the highest point in the township. The lowest elevation, 4,080 ft., is found in the bottom of Castle Creek Canyon as it leaves the township on the S. bdy. of sec. 36.

The eastern portion of the township is drained S. into the San Juan River by Castle Creek Canyon and Johnnies Hole. The NE. portion is drained NW. into the Colorado River by Lake Canyon. The remainder of the township is drained SW. into the San Juan River by numerous smaller canyons.

Timber, composed of pinion and juniper, grades from fairly heavy stands in the higher elevations to thinly scattered in the lower portion. A heavy growth of sunflowers and weeds is found in the NE. portion.

Several seeps are found in the bottom of Castle Creek Canyon and Lake Canyon. However, no permanent springs were observed during the course of this survey.

There is evidence of past prospecting activitied for both oil and uranium throughout the township. Limited cattle grazing is the only use to which the land is put at the present time.

U. S. GOVERNMENT PRINTING OFFICE 16—28180-2

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Max E. Swindle | Principal Assistant |
| Lee B. Coon | Chainman |
| Ortho J. Hatch | Flagman |
| Clement J. Davis | Axeman |
| Parley Pratt | Cornerman |

16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 1956 I have surveyed the north boundary and a portion of the subdivison of Township 40 South, Range 12 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 5, 1958

Salt Lake City, Utah

Fred R. Chappell

Fred R. Chappell - Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*__

~~The foregoing field notes of the survey of~~

executed by

having been critically examined and found correct, are hereby approved.

_____

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

_____

*Cadastral Engineering Staff Officer.*

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]

# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of August, 19[illegible] I have ~~surveyed~~ supervised the survey of the north boundary and a portion of the subdivision of Township 40 South, Range 12 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision, and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 5, 1958
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane - Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
*Washington, D. C.,* SEP 22 1958, *19*

The foregoing field notes of the survey of the north boundary and a portion of the subdivision of Township 40 South, Range 12 East, Salt Lake Meridian, Utah

executed by Fred R. Chappell, under the supervision of Vern E. Lane

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in~~

~~, is a true~~ copy of the original field notes.

~~*Cadastral Engineering Staff Officer.*~~

BUREAU OF LAND MANAGEMENT

4—679

ORIGINAL

A

RECEIVED
APR 25 1932
Department Of The Interi
Public Survey Office
Salt Lake City, Utah

# FIELD NOTES

OF THE SURVEY OF THE

EAST BOUNDARY

OF

TOWNSHIP 40 SOUTH, RANGE 12 EAST.

*Of the* SALT LAKE *Meridian,*

*In the State of* UTAH

EXECUTED BY

ROBERT C. [illegible]

*In the capacity of* ~~U. S.~~ *Surveyor , under Special Instructions dated* January 31, *19* 28, *issued by the District Cadastral Engineer to govern surveys included in Group No.* 200, *which were approved by the Commissioner of the General Land Office,* March 2, *19* 28, *and Assignment Instructions dated* March 18, *19* 30

*Survey commenced* April 21, *19* 30

*Survey completed* April 28, *19* 30

6—151

# INDEX DIAGRAM.

*Township* 40 South, *Range* 12 East

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 | 1 |
| 18 | 17 | 16 | 15 | 14 | 13 | 9 |
| 19 | 20 | 21 | 22 | 23 | 24 | 6 |
| 30 | 29 | 28 | 27 | 26 | 25 | 5 |
| 31 | 32 | 33 | 34 | 35 | 36 | 3 |

U. S. GOVERNMENT PRINTING OFFICE 6—151

232

East Boundary of T 40 S, R 12 E.

Date Diagram

| | | |
|---|---|---|
| 1 | 4-28-30 | 6 |
| 12 | 4-25-30 | 7 |
| 13 | 4-24-30 | 18 |
| 24 | 4-23-30 | 19 |
| 25 | 4-22-30 | 30 |
| 36 | 4-21-30 | 31 |

All lines surveyed by Robert C. Yundt, ~~U. S.~~ Surveyor.

The survey was executed with a Buff and Buff solar transit, number 9797, and being the property of the General Land Office. The horizontal circle of the instrument has a diameter of 4½ inches and has two double verniers placed opposite to each other and graduated to single minutes of arc; the vertical circle is 3 inches in diameter and has one double vernier graduated to single minutes of arc. The instrument is equipped with an improved Smith solar attachment; this attachment, however, was not used in this work. The instrument was in good adjustment and approved for use on this survey by the District Cadastral Engineer on March 18, 1930, conditional upon satisfactory field test. All of the adjustments of the transit were examined and all of the errors found were corrected prior to the beginning of the survey in the field.

The measurement of the line was made with two steel tapes 8 chains in length. These tapes are graduated every link for the first 100 links and thereafter at intervals of 10 links. The chains were compared with a Lufkin 'standard' tape, 1 chain in length, and found to be correct. The distances were measured on the slope and the vertical angle determined by the use of clinometers and the slope distances properly reduced to true vertical and horizontal components. The true hozizontal distance alone, appears in the notes. Two sets of chainmen were employed and the line was double chained. The mean distance of the two sets was used as the true distance. All of the chaining was accurate within the limits imposed by the special instructions.

The data furnished in the special instructions gives the geographic position of the standard corner of T 40 S, Rs 12 and 13 E as: latitude 37°16' N and longitude 110°31' W. The latitude has been checked by me on numerous occasions and found to agree with the instrumental latitude. No record of these checks will appear in this

set of notes.

The azimuth of the initial line was determined by an altitude observation on the sun, a record of which follows: At the true point for the standard corner of T 40 S, Rs 12 and 13 E, here-in-after described I observe the altitude of the sun, making 8 readings, 4 each with the telescope in direct and reversed positions; first setting on the sun's upper and right limbs, then, after reversal of the instrument, setting on the sun's lower and left limbs. The horizontal angle was turned in a north-east-south direction from the reference point to the sun. Date of observation, April 21, 1930.

| Mean values- | Hor. angle- | Vertical angle- | Reduced azimuth. |
|---|---|---|---|
| 1st set | 118°07'50" | 51°52'45" | S 174°30'20" E |
| 2nd set | 118°52'10" | 52°17'30" | S 174°30'35" E |
| 3rd set | 120°08'50" | 52°58'45" | S 174°31'10" E |
| 4th set | 120°44'10" | 53°17'30" | S 174°30'50" E |
| | | Mean azimuth | S 174°30'44" E |

Mean time of observation, l.m.t. 9h 54m 34s a.m.

Turning an angle of 5°29'15" to the left of the reference point I establish a flag on the top of a spur about a mile and a quarter North of my station. The multiple angle of four repetitions between the reference point and the flag is 21°57'00". The bearing of this line is North.

Beginning at the true point for the standard corner of T 40 S, Rs 12-13 E, which is 27 links west of its witness corner, the latter being an iron post, 3 inches in diameter, properly marked, and set and witnessed as described in the official record, thence

North, on true line, between sections 31 and 36, over mountainous land cut by numerous sandstone ledges, through widely scattered trees and scant undergrowth. Desc. 500 ft. along a NW slope.

16.50 Small fork of Castle Wash, drains SW., asc. 155 ft. along

a SE slope to the ¼ section corner.

28.40 Sandstone ledge about 75 ft. high, bears E and W.

40.00 Point for the ¼ section corner falls on steeply sloping sandstone outcrop where it is impracticable to establish a corner monument.

Difference between measurement of 40.25 chains by two sets of chainmen is nothing;

40.25 On a SE slope, on barren sandstone,

Set an iron post, 3 ft. long and 1 in. in dia., 30 ins. in a mound of stone, over a cross (X) cut in solid rock, for the witness ¼ sec. cor. with a brass cap marked:

¼

S36 | S31

WC
1930

from which

A juniper, 9 ins. in dia., marked WC¼S36BT, bears S 82°30' W, 31 links distant.

No other tree available for marking.

Continue ascent over a broken SE slope, 235 ft to corner.

Difference between the measurement of 80.00 chains by two sets of chainmen is 4 links, position of middle point, by 1st set 80.02

by 2nd set 79.98; the mean of which is

80.00 On a SE slope,

Set an iron post, 2 ins. in dia., 3 ft. long, 3 ins. in the ground to solid rock and 30 ins. in a mound of stone, for the corner of sections 25, 30, 31 and 36, with a brass cap marked:

T40S

| R12E | R13E |
|---|---|
| S25 | S30 |
| S36 | S31 |

1930

from which,

A juniper, 3 ins. in dia., marked BT, bears

East Boundary of T 40 S, R 12 E.

S 20°00' W, 101 links distant.

A juniper, 3 inches in diameter, marked BT, bears N 57°00' W, 30 links distant.

Land, rough and broken mountains, general SE exposure and drainage.

Soil, shallow sand upon sandstone bedrock, considerable exposed sandstone.

Timber, scattered juniper and pinon.

Undergrowth, sagebrush and mountain rush.

Poor grazing.

---

North, between sections 25 and 30.

Over rough and broken land, through scattering timber and scant undergrowth, ascend 50 ft. along a SE slope.

15.60 Sandstone spur, projects W, descend 45 ft along a NW slope.

21.80 Small draw, drains W, ascend 40 ft. along a SE slope.

24.60 Small spur, projects W, descend 150 ft. along a NW slope to the witness ¼ section corner.

40.00 The point for the ¼ section corner falls on steeply sloping sandstone where the monument can not be set.

Difference between the measurement of 40.20 chains by two sets of chainmen is nothing.

40.20 On a NW slope,

Set an iron post, 3 ft. long and 1 in. in diameter 14 ins. in the ground to solid rock and supported in a mound of stone, for the witness ¼ section corner, with brass cap marked:

S25 ¼ S30
WC
1930

from which

A juniper, 3 ins. in diameter, marked BT, bears S 72°00' E, 68 links distant.

A juniper, 5 ins. in diameter, marked WC¼S25BT, bears N 54°00' W, 57 links distant.

Continue descent of 15 ft. along a NW slope.

42.80 Draw, drains SW, ascend 130 ft. along a SE slope over barren sandstone.

67.30 Spur, projects W, descend 55 ft. along a NW slope.

73.80 Draw, drains SW, ascend 40 ft. along a SE slope.

Difference between the measurement of the north 40.00 chains of this mile is 2 links, the position of the middle point; by the first set 39.99

by the second 40.01; the mean of which is:

80.00 On a SE slope, over a cross (X) cut in solid rock

Set an iron post, 3 ft. long and 2 ins. in diameter in a mound of stone, for the corner of sections 19, 24, 25 and 30, with brass cap marked:

T40S
R12E | R13E
S24 | S19
S25 | S30
1930

from which

A juniper, 9 ins. in diameter, marked T40SR13ES19BT, bears N 62°15' E, 153 links distant.

A juniper, 8 ins. in diameter, marked T40SR12ES25BT, bears S71°45' W, 51 links distant.

No other suitable tree available for marking.

Land, rough and broken sandstone slopes, general SW exposure and drainage.

Soil, shallow sand on a sandstone bed rock.

Timber, dwarf juniper and pinon.

Undergrowth, sagebrush, black brush and mountain rush.

Poor grazing.

---

North between sections 19 and 24.

Over broken land, through scattering timber and scant undergrowth, ascend 35 ft. along a SE slope to spur.

6.50 Head of a draw draining SW, continue ascent.

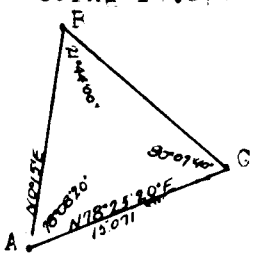
The difference between the measurement of 10.16 chains

by two sets of chainmen is nothing:

10.16 Triangulation point on the top of a spur projecting W. The line to the north passes over a deep canyon having vertical walls about 200 ft. high over which it is impracticable to chain. Line north of the rim of the canyon falls upon a small sandstone dome upon which it is impracticable to set an instrument. Designate the 10.16 chain point as A. Set point B immediately east of the dome. Line A-B bears N 0°15' E. From A survey a base line A-C N 78°23'20" E. Base line double chained and the mean value used;

by first set of chainmen 15.069

by second set of chainmen 15.079, the mean being 15.074




Vertical angle A to C -1°18'

All angles measured by 3 repetitions, mean values:

At point A, 78°08'20"

At point B, 21°44'00"

At point C, 80°07'40"

Northing, A to B, 40.11 chains; Easting 0.17 chains. By return measurement, South 64 links to a point on the rim of the canyon, bearing NE and SW, impracticable to return further south. Offset 0.17 chains West to a point on true line, 49.63 chains north of the section corner, and at this point:

49.63 Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, over a cross (X) cut in solid rock, for the witness ¼ section corner, with a brass cap marked:

¼

S24 | S19

W C

1930

No suitable trees available for marking.

Approximate distance to topography on line covered by triangulation.

12.00 Left rim of canyon, 200 ft. high, bears NE and SW.

25.00 Bottom of canyon, drains SW.

40.00 Point for the $\frac{1}{4}$ section corner falls upon steeply sloping sandstone where the monument cannot be established.

49.50 Right rim of canyon, 200 ft. high, bears NE and SW.

40.63 The witness $\frac{1}{4}$ section corner. Return to point B of the triangulation and continue North on traverse line along the east edge of the sandstone dome.

53.34 Offset .17 chains West to true line, thence North.

53.76 Point on the left rim of Castle Wash. The rim is about 200 ft. high and bears NE and SW; chaining to the north is impracticable because of the ledges. I trigulate as follows: Designate this point as A, set B on line to the north in the bottom of Castle Wash and from B survey a base line B-C, S 53°50'40" W, base line double chained:

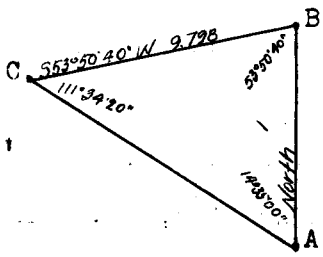
By the first set of chainmen 9.797 chains

By the second set of chainmen 9.799 chains

Mean distance 9.798 chains

Vertical angle

A to B, -11°45'




Angles:

At A, 14°35'00"

At B, 53°50'40"

At C, 111°34'20"

Distance by triangulation 36.19

Distance on line to B 89.95

Distance by return measurement, both sets of chainmen agreeing: 9.95 chains.

80.00 On steeply sloping sandstone, where the post cannot be set, cut a cross (X) deeply into the rock to mark

the corner point. The witness section corner is established 11 links north of this point, for the description see the notes of the line between sections 13 and 18.

Land, rough and broken sandstone slopes, general south-west exposure and drainage.

Soil, shallow sandy loam, 3rd rate.

Timber, widely scattered juniper.

Undergrowth, sagebrush, shadscale and mountain rush.

Poor grazing.

---

North between sections 13 and 18.

Beginning at the point for the corner of sections 13, 18, 19 and 24, here-to-fore described, thence North on true line.

.11 On a NW slope

Set an iron post, 3 ft. long and 2 ins. in diameter, 12 ins. in the ground and in a mound of stone, for the witness corner of sections 13, 18, 19 and 24, with a brass cap marked:

T40S
R12E | R13E
S13 | S18
S24 | S19
WC
1930

from which

A juniper, 4 ins. in diameter, marked 'BT' bears N 35°30' E, 44 links distant.

No other suitable accessary available.

3.00 Shallow draw, drains SW, ascend along a SW slope.

9.95 Triangulation point on the top of a spur projecting W.

Line to the north of this point ascends an isolated sandstone dome, about 150 ft. high and over which chaining is impracticable, I therefore proceed by traverse as follows, giving topography on the traverse

N 10°00' W

7.60, Draw, 75 ft. below triangulation point, drains SW, ascend 80 ft. along a SW slope.

19.60, Spur, projects W, descend 20 ft. along a NW slope to.

30.52, Northing of 40.00 chains from the section corner. This point falls in the middle of a draw draining SW. Impracticable to turn east from this point.

31.48, Mean distance: To point 'A' on traverse

| | |
|---|---|
| By the first set of chainmen | 31.47 |
| By the second set of chainmen | 31.49 |
| | 31.48 |

Thence

S 80°08' E, 5.55 chains, both sets of chainmen agreeing.

40.00 To a point 40.00 chains north of the section corner. This point falls on steeply sloping sandstone where the corner monument cannot be set. At the corner point cut a cross (X) deeply into the sandstone and at a point .08 chains South or at

39.92 On a NW slope, over a cross (X) cut in solid rock

Set an iron post, 3 ft. long, 1 in. in diameter, 30 ins. in a mound of stone for the witness ¼ section corner, with brass cap marked:

W C
¼
S13 | S18
1930

from which

A juniper, 6 ins. in diameter, marked WC¼S13BT, bears S 41°00' W, 1.21 chains distant.

No other suitable accessary available. Return to point 'A', noted above and continue on traverse line around the sandstone dome:

West, 4.19 chains, both sets of chainmen agreeing. Thence N 5°00' W, a mean distance of 18.22 chains.

By the first set of chainmen 18.21 chains

East Boundary of T 40 S, R 12 E.

By the second set of Chainmen 18.23 chains

18.22 chains

Thence

N 35°00' E, giving topography on traverse line.

2.50 Castle Wash, intermittent stream 10 links wide and 5 ins. deep, drains SW.

6.30 Same wash, drains S.

19.40 Same wash, drains SW.

75.14 19.59 Mean distance: Both sets of chainmen agreeing.

To a point 75.14 chains north of the section corner; thence

North, on true line a mean distance of 4.86 chains

80.00 On a S slope about 30 ft. above the bottom of Castle Wash

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in the ground for the corner of sections 7, 12, 13 and 18, with a brass cap marked:

T40S
R12E | R13E
S12 | S 7
S13 | S18
1930

from which

A pinon, 5 ins. in diameter, marked T40SR13ES7BT, bears N 40°15' E, 120 links distant.

A cottomwood, 14 ins. in diameter, marked T40S R13ES18BT, bears S 27°00' E, 267 links distant.

No other suitable tree available for marking.

Land, Rough and broken ledges along the east rim of Castle Wash.

Soil, shallow sandy loam, 3rd rate.

Timber, dwarf juniper.

Undergrowth, sagebrush, mountainrush and bunch grass.

Poor grazing.

---

North, between sections 7 and 12.

Over rough and broken land, through scattering timber

and scant undergrowth. The line to the north ascends high and perpendicular ledges, forming the north or right rim of Castle Wash canyon, over which chaining is impracticable. In order to secure a suitable base for a triangulation I return South, a mean distance of 2.98 chains; designate this point as 'A', set point B on the top of the rim to the north: Vertical angle, A to B, is 25°30'. From A survey a base line A-C, East, a mean distance of 7.799 chains: By first set of chainmen 7.798

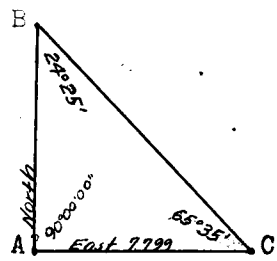
By second set of Chainmen 7.800

Mean 7.799

Angle at A 90°00'00"

Angle at C 65°35'00"

Angle at B 24°25'00"




Distance by triangulation 17.18

Less 2.98

Distance on line to B 14.20

14.20 Top of rim on the right side of Castle Wash canyon, bears E and W. The rim is about 150 ft. high. Thence over gently rolling land with considerable exposed sandstone.

20.90 Low spur, projects W.

34.00 Shallow draw, drains SW, ascend 20 ft. along a gentle S slope.

The difference in the measurement of 40.00 chains, by two sets of chainmen is nothing:

40.00 On a gentle S slope,

Set an iron post, 3 ft. long and 1 in. in diameter, 12 ins. in the ground and in a mound of stone for the ¼ section corner, with brass cap marked:

¼

S12 | S 7

1930

East Boundary of T.40 S., R.12 E.

from which

A juniper, 8 ins. in diameter, marked 'BT', bears N 85°00' W, 82 links distant. The tree is a dwarf juniper and no further marks could be made upon it. No other suitable tree available for marking.

Ascend 15 ft. along a S slope.

41.40 Spur, projects SW, descend 20 ft. along a N slope.

51.80 Draw, drains SW, ascend 90 ft. along a SE slope.

74.40 Low ridge, bears NE and SW, descend 10 ft. along a NW slope.

The difference in the measurement of the north 40.00 chains by two sets of chainmen is nothing.

80.00 On a gentle N slope,

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in the ground for the corner of sections 1, 6, 7, and 12, with a brass cap marked:

T40S
S12E | R13E
S 1 | S 6
S12 | S 7
1930

from which

A juniper, 4 ins. in diameter, marked 'BT', bears N 3°00' E, 180 links distant.

A juniper, 3 ins. in diameter, marked 'BT', bears S 46°15' E, 148 links distant.

A juniper, 5 ins. in diameter, marked 'BT', bears S 34°00' W, 225 links distant.

A juniper, 13 ins. in diameter, marked T40SR12ES1BT, bears N 27°00' W, 86 links distant.

Land, rolling mesa north of Castle Wash.

Soil, deep sandy loam, occasional patches of barren sandstone. 2nd rate.

Timber, small dwarf juniper.

Undergrowth, sagebrush, bunch grass and rabbit brush.

Good grazing.

North, between sections 1 and 6.

Over gently rolling land, through scattering timber and scant undergrowth

14.00 Low spur, projects SW, descend 45 ft. over a gentle N slope through dense grasses.

Difference between the measurement of the south 40.00 chains by two sets of chainmen is nothing.

40.00 In a sandy flat

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in the ground for the ¼ section corner, with a brass cap marked:

¼

S1 | S6

1930 from which,

A juniper, 8 ins. in diameter, marked ¼S1BT, bears N 49°00' W, 416 links distant.

No other suitable tree available for marking.

Continue along a sandy bench. Ascend 45 ft.

63.70 Ridge, bears NE and SW, descend 20 ft. along a NW slope.

78.40 Shallow draw, drains NE, ascent a gentle S slope.

The difference between the measurement of the north 40.00 chains by two sets of chainmen is 02 links

By the first set 39.99

By the second set 40.01, the mean of which is:

80.00 On a gentle S slope,

Set an iron post, 3 ft. long and 3 ins. in diameter, 30 ins. in the ground for the corner of townships 39 and 40 south, ranges 12 and 13 east, with a brass cap marked:

T39S

R12E | R13E

S36 | S31

S 1 | S 6

T40S

1930

from which

A juniper, 3 ins. in diameter, marked "BT" bears N 28°15' E, 245 links distant.

A juniper, 3 ins. in diameter, marked "BT" bears S 48°15' E, 203 links distant.

A juniper, 3 ins. in diameter, marked "BT", bears S 34°15' W, 289 links distant.

A pinon, 6 ins. in diameter, marked T39SR12ES36BT, bears N 8°30' W, 359 links distant.

Land, gently rolling country, general NW exposure and drainage.

Soil, deep sandy loam.

Timber, dwarf juniper and pinon.

Undergrowth, bunch grass and sagebrush.

Good grazing.

Check on the azimuth of the Range line in T 40 S.

On April 28, 1930 at the corner of Ts 39 and 40 S, Rs 12 and 13 E, above described, at 5h 06m 50s p.m., l.m.t. I observe Polaris at western elongation, making one observation each, with the telescope in direct and reversed positions and noting the deflection angle from a line point about one mile to the north.

| Telescope | Time-l.m.t. | Def. angle to left of line. |
|---|---|---|
| Direct | 5 05 55 p.m. | 1°21' |
| Reversed | 5 07 45 p.m. | 1°21' |
| Mean | 5 06 50 p.m. | 1°21' |

L.m.t of Polaris at western elongation 5h 06m 48s p.m.

Azimuth of Polaris at elongation 1°21'

This observation indicates that the direction of the line is North.

## GENERAL DESCRIPTION

That portion of the line south of Castle Wash traverses along the right or east rim of the canyon and is in very rough and broken country, impassable to stock and accessible to man in only a few places. The land between

these breaks and Mike's Canyon to the east would afford excellent winter grazing for stock. Because of lack of living water grazing during the summer months is not now possible. This section has not been utilized for eight or ten years and the grass is very abundant. The bottom of Castle Wash is greatly over grazed and few forage plants are to be found there. The rims for four or five miles in either direction from the point crossed by line, are impassable to stock and many cattle are held in the canyon during the winter season. Grey Mesa on the west side of lower Castle Wash, is a comparatively level area, affording good grazing for stock in the winter and is now so used. The area surrounding the portion of the line north of Castle Wash, for four or five miles on both sides , is excellent grazing land. It is located some distance from living water and is not used to any extent now. Reservoirs could easily be constructed in this area and also in that between Castle Wash and Mike Canyon.

The only living water encountered is in Castle Wash. This is an intermittant stream of good water. It becomes very small during the summer months.

The highlands on either side of Castle Wash support a very scattered growth of juniper and dwarf pinon and in the bottom of the wash are numerous groves of cottonwood and willow. Over the entire area is a scant growth of sagebrush and mountain rush, with other desert plants growing in small patches. The stand of grass varies from good in the more inaccessable, or else drier, parts to a very sparse growth in that more easily reached. The highlands on either side of the wash have an excellent stand of bunch and sand grasses.

There are no settlers living near the surveyed line.

No indications of any commercial deposits of any mineral were found.

4—680
(August, 1926)

# FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Philander Maxwell | Chainman |
| Edgar Hayes | Chainman |
| John Pehrson | Chainman |
| Lynn Hawkes | Flagman |

# CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, Robert C. Yundt, ~~U.S.~~ Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 31st day of January, 1928, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the east boundary of Township 40 South, Range 12 East.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Salt Lake City, Utah, January 18, 1932

Robert C. Yundt
~~U. S.~~ Surveyor.

## APPROVAL

Office of ~~U. S. Supervisor of Surveys,~~ Chief Cadastral Engineer,

Denver, Colorado, December 2, 1946.

The foregoing field notes of the survey of the East Boundary of Township 40 South Range 12 East----

executed by Robert C. Yundt, ~~U. S.~~ Surveyor

under his special instructions dated January 31, 1928, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Earl G. Harrington
~~U. S. Supervisor of Surveys.~~
Acting Asst. Chief Cadastral Engineer.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in~~

~~, has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys.~~

4—679
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

# FIELD NOTES

OF THE SURVEY OF

THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISION,

THE DEPENDENT RESURVEY OF

A PORTION OF THE EAST BOUNDARY

AND A PORTION OF THE SUBDIVISION

AND

THE MEANDERS OF THE RIGHT BANK

OF THE

SAN JUAN RIVER THROUGH SECTIONS32 AND 36
OF
TOWNSHIP 40 SOUTH, RANGE 13 EAST

*Of the* SALT LAKE *Meridian,*

*In the State of* UTAH

EXECUTED BY

| | |
|---|---|
| Vern E. Lane | Cadastral Surveyor (Chief of Party) |
| Donald A. Cannon | Cartographic Survey Aid |

*Under special instructions dated* May 13, *19*55, *which provided for the surveys included under Group No.* 405, *approved* May 31, 1955 *and assignment instructions dated* July 9, *19*57

*Survey commenced* August 7, *19*57

*Survey completed* August 25, *19*57

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

# INDEX DIAGRAM

*Township* 40 South, *Range* 10 East

| | | | | | |
|---|---|---|---|---|---|
| 6<br>6 | 5<br>5 | 4<br>4 | 4<br>11 3 | 3<br>12 2 | 2<br>13 1 |
| 7 | 8 | 9 | 11 10 | 13<br>11 | 12 |
| 18 | 17 | 15<br>15 16 | 10 15 | 14 | 13 |
| 19 | 20 | 14<br>21 | 10 22 | 23 | 24 |
| 30 | 29 | 28 | 9 27 | 26 | 25 |
| 31 | 18<br>17 32 | 16 33 | 8 34 | 35 | 6<br>7 36 2 |

16—56770-1

Meanders in Sec. 36 on page 8.
Meanders in Sec. 32 on page 19.

225

Chains

The west boundary was surveyed by R. C. Yundt and its record appears in the official record of the 1930 survey of the range line between Rs. 12 and 13 E., T. 40 S. The south boundary, the Eighth Standard Parallel South, was surveyed by C. F. Moore, W. Bandy and S. Smith and its record appears in the official record of the 1926 survey of the Eighth Standard Parallel South, R. 13 E. The east boundary was surveyed by R.C. Yundt and E.S.C. Smith and its record appears in the official record of the 1928 survey of the range line between Rs. 13 and 14 E., T. 40 S.

The following field notes are those of the survey of the north boundary and a portion of the subdivision of T. 40 S., R. 13 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered State school sections.

This survey was executed with a W. and L.E. Gurley transit, serial No. 541331, contructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of this survey.

The directions of the lines of survey were determined by true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation and supplemented by numerous altitude observations on the sun taken throughout the progress of the survey.

Corners on the east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established were calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links, and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show the horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography features on lines run by traverse or triangulation are approximately as scaled from U.S.G.S. topographic sheets. The details of such traverse or triangulation have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The geographic position of the SE. cor. of T. 40 S., R. 13 E. is latitude 37° 15' 31.905" N. and longitude 110° 25' 09.041" W., as determined by section line traverse from U.S.G.S. triangulation station "Skelly" located in sec. 27, T. 40 S., R. 12 E., from station "Road" located in sec. 20, T. 39 S., R. 13 E., and from station "Castle" located in sec. 25, T. 39 S., R. 13 E.

The magnetic declination was read at a number of stations throughout the township, and the average of these readings was found to be 15° E.

Chains

Reestablishment of surveys executed by
R.C. Yundt and E.S.C. Smith in 1928.

Beginning at the standard cor. of T. 40 S., Rs. 13 and 14 E., mkd. by an iron post, 3 ins. diam., conforming to the record.

North, bet. secs. 31 and 36.

Over nearly level bottom land of the San Juan River.

34.85 Point selected for the witness meander cor. of secs. 31 and 36 on the present left bank of the San Juan River, banks bearing SW. and NE.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a collar of stone, with brass cap mkd.

WMC
S36 | S31
R13E R14E
T40S
1957

Thence across the San Juan River, course SW.

36.57 Point for the meander cor. of secs. 31 and 36 on the original left bank of the river, at proportionate dist., falls in the San Juan River; its original witness cor. also falls in the river.

45.23 Point for the meander cor. on the original right bank of the San Juan River, at proportionate dist., now functions as the meander cor. of sec. 31 only; this point and its original witness cor. now falls in the river.

53.74 Present mean high water on the right bank of the San Juan River, the point for the meander cor. of sec. 36 only, falls on a sandy bank where the cor. cannot be perpetuated.

54.22 Point selected for the witness meander cor.

Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T40S
R13E R14E
S36 | S31
WMC
1957

Thence over nearly level land.

80.14 The cor. of secs. 25, 30, 31 and 36, mkd. by an iron post, 2 ins. diam., conforming to the record of the 1928 survey.

Land, bottom lands of the San Juan River.
Soil, sand.
Timber, scattered clumps of willows on the river banks.

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Survey of the North Boundary, T. 40 S., R. 13 E.

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From the cor. of Ts. 39 and 40 S., Rs. 13 and 14 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

West, bet. secs. 1 and 36.

Survey of the North Boundary, T. 40 S., R. 13 E.

| Chains | |
|---|---|
| | Over rolling and broken land, through scattered juniper and pinion; desc. 10 ft. over W. slope. |
| 1.20 | Small wash, drains S. 20° W.; asc. 180 ft. over ledges on SE. slope. |
| 25.50 | Spur, slopes S. 30° W.; desc. 140 ft. over W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 1 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground, to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼ S36 / S 1<br>T40S<br>1957 |
| | Desc. 70 ft. over SW. slope. |
| 55.80 | Point projecting into canyon, projects about 1 ch. S. 60° W. to end; desc. 500 ft. over ledges facing W. |
| 68.00 | Wash in bottom of canyon, 40 lks. wide, 3 ft. deep, drains S. 30° W.; asc. 300 ft. over ledges facing E. |
| 80.00 | Point for the cor. of secs. 1, 2, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S35 \| S36<br>S 2 \| S 1<br>T40S<br>1957 |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered juniper and pinion. |
| | West, bet. secs. 2 and 35. |
| | Through scattered timber; asc. 330 ft. over ledges facing E. |
| 11.50 | W. rim of canyon, a ledge, 40 ft. high, bears N. and S. irregularly; asc. 90 ft. over E. slope. |
| 36.00 | Spur, slopes SW.; desc. W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 2 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼ S35 / S 2<br>T40S<br>1957 |
| | Desc. 40 ft. over W. slope. |
| 53.80 | W. rim of Castle Creek Canyon, a ledge 60 ft. high, bears NE. and SW.; desc. 350 ft. over NW. slope. |

| Chains | |
|---|---|
| 73.30 | Small wash, drains N. 30° W.; asc. 60 ft. over NE. slope. |
| 80.00 | Point for the cor. of secs. 2, 3, 34 and 35. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S34 \| S35<br>S 3 \| S 2<br>T40S<br>1957 |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered scrub juniper and pinion. |
| | West, bet. secs. 3 and 34. |
| | Through scattered scrub timber; desc. 190 ft. over NW. slope. |
| 35.20 | Wash, 20 lks. wide, 10 ft. deep, drains SW.; asc. 10 ft. along S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 34. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼ S34<br>S 3<br>T40S<br>1957 |
| | Asc. 20 ft. along S. slope. |
| 56.00 | Spur, slopes S. 70° W.; desc. 80 ft. over W. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 33 and 34. |
| | Set an ironpost, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S33 \| S34<br>S 4 \| S 3<br>T40S<br>1957 |
| | Land, rolling bottom of Castle Creek Canyon.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered scrub juniper and pinion. |
| | West, bet. secs. 4 and 33. |
| | Through scattered scrub timber; desc. 70 ft. over W. slope. |
| 4.70 | Wash, in bottom of Castle Creek Canyon, 20 lks. wide, 3 ft. deep, drains SW.; asc. 120 ft. over broken S. slope. |
| 23.00 | Wash, drains SW. |

| Chains | |
|---|---|
| 39.40 | High sandstone point, with walls about 50 ft. high, projects S. about 60 lks. |
| 39.60 | Point selected for the witness ¼ sec. cor. of secs. 4 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground, to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R13E<br>W ¼ S33<br>C S 4<br>T40S<br>1957<br><br>Desc. about 30 ft. over ledge facing SW. |
| 40.00 | Point for the cor. of secs. 4 and 33 falls on SW. face of ledge, about 50 ft. high, where it is impractical to set the monument; desc. 50 ft. over SW. slope. |
| 43.00 | Base of descent, bears NW. and SE.; asc. 120 ft. over broken SE. slope. |
| 62.70 | Spur, slopes S. 30° W.; desc. 150 ft. over broken sandstone slope, draining SW. |
| 73.50 | Wash, drains SW. |
| 80.00 | Point for the cor. of secs. 4, 5, 32 and 33.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br><br>T39S R13E<br>S32 \| S33<br>S 5 \| S 4<br>T40S<br>1957<br><br>Land, rolling sandstone.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper and pinion. |
| | West, bet. secs. 5 and 32.<br><br>Through thinly scattered scrub timber; asc. 70 ft. over SE. slope. |
| 5.30 | Ridge, bears N. 20° E. and S. 20° W.; desc. 70 ft. over NW. slope. |
| 7.00 | Head of wash, drains S. 30° W. |
| 24.00 | Wash, drains SW.; asc. 120 ft. overbroken SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 5 and 32.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T39S R13E<br>¼ S32<br>S 5<br>T40S<br>1957<br><br>Desc. 110 ft. over W. slope. |

| Chains | |
|---|---|
| 58.20 | Wash, 10 lks. wide, 2 ft. deep, drains S. 70° W.; asc. 190 ft. over E. slope. |
| 66.20 | Asc. over ledge, 10 ft. high, bears E. irregularly and S. 70° W.; desc. 20 ft. over rolling land. |
| 80.00 | Point for the cor. of secs. 5, 6, 31 and 32. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>S31 \| S32<br>S 6 \| S 5<br>T40S<br>1957 |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered scrub juniper and pinion. |
| | West, bet. secs. 6 and 31. |
| | Through scattered timber; desc. 100 ft. over rolling NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 6 and 31. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd. |
| | T39S R13E<br>¼ S31<br>S 6<br>T40S<br>1957 |
| | Desc. 90 ft. over NW. slope. |
| 79.80 | The cor. of Ts. 39 and 40 S., Rs. 12 and 13 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record. |
| | Land, rolling.<br>Soil, sand.<br>Timber, scattered juniper and pinion. |
| | Portion of the Subdivision, T. 40 S., R. 13 E. |
| | From the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. |
| | West, bet. secs. 25 and 36.<br>Over rolling and broken land, drains S. |
| 8.10 | Jeep road, bears N. 20° W. and S. 20° E.; desc. 30 ft. along S. slope. |
| 14.20 | Jeep road, bears N. 10° E. and S. 10° W.; desc. 20 ft. along rolling S. slope. |
| 18.40 | Wash, 20 lks. wide, 6 ins. deep, drains S. 10° E.; asc. 40 ft. along rolling S. slope. |

Portion of the Subdivision, T. 40 S., R. 13 E.

| Chains | |
|---|---|
| 28.00 | Small wash, drains S. 30° E.; asc. 80 ft. over E. slope. |
| 38.10 | Spur, projects S.; desc. 30 ft. over W. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 25 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>¼ S25<br>S36<br>1957 |
| | Desc. 80 ft. over W. slope. |
| 63.10 | Wash, 40 lks. wide, 10 ft. deep, drains S.; desc. 30 ft. over series of low spurs and small drains, putting S. |
| 72.00 | Wash, 30 lks. wide, 10 ft. deep, drains S. 30° E.; asc. 90 ft. over E. slope. |
| 80.00 | Point for the cor. of secs. 25, 26, 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>S26 \| S25<br>S35 \| S36<br>1957 |
| | Land, rolling.<br>Soil, sandy clay and exposed shale.<br>Timber, none. |
| | S. 0° 01' E., bet. secs. 35 and 36. |
| | Over rolling land; desc. 50 ft. over S. slope. |
| 10.50 | Jeep road, bears N. 10° W. and S. 30° E. |
| 13.60 | Desc. over ledge, about 40 ft. high, bears W. and S. 20° E.; desc. 60 ft. over W. slope. |
| 27.50 | Bottom of descent on E. edge of wash, drains S. 70° W. from N. 30° W.; asc. 70 ft. over NW. slope. |
| 31.70 | Spur, slopes SW.; desc. 60 ft. over S. slope. |
| 37.63 | Intersect the mean high water mark on the right bank of the San Jaun River. Point for the meander cor. of secs. 35 and 36. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R13E<br>S35 \| S36<br>M C<br>1957 |

| Chains | |
|---|---|
| | Land, rolling.<br>Soil, sandy clay and exposed shale.<br>Timber, none. |
| | **Meanders in Sec. 36** |
| | From the meander cor. of secs. 35 and 36 on the right bank of the San Juan River, heretofore described. |
| | Thence upstream with the meanders of the right bank of the river in sec. 36. |
| | N. 65° 05' E., 1.96 chs. |
| | S. 85° 14' E., 9.79 chs. |
| | S. 69° 49' E., 3.89 chs. |
| | N. 77° 14' E., 4.84 chs. |
| | S. 70° 34' E., 6.17 chs. |
| | S. 57° 20' E., 3.17 chs. |
| | S. 62° 29' E., 5.91 chs. |
| | N. 26° 36' E., 1.98 chs. |
| | S. 68° 09' E., 4.19 chs. |
| | N. 57° 30' E., 4.59 chs. |
| | S. 82° 05' E., 5.03 chs. |
| | N. 70° 46' E., 10.51 chs. |
| | N. 59° 59' E., 19.83 chs. |
| | N. 66° 14' E., 6.25 chs. The true point for the meander cor. of sec. 36 only. |
| | Land, rolling.<br>Soil, sand.<br>Timber, willows. |
| | From the standard cor. of secs. 33 and 34 on the S. bdy. of the township, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. |
| | N. 0° 02' W., bet. secs. 33 and 34. |
| | Through thinly scattered timber; asc. 200 ft. over abrupt S. slope. |
| 4.50 | N. rim of inner gorge of San Juan River, a ledge about 20 ft. high, bears NE. and W.; asc. 40 ft. over S. slope. |
| 25.50 | Top of ascent, bears NE. and S. 20° W.; desc. 10 ft. along W. slope. |
| 31.00 | Jeep road, bears NE. and W.; asc. 40 ft. over SW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 33 and 34. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>¼<br>S33 \| S34<br>1957 |
| 41.20 | Top of ascent, bears N. 80° W. and S. 70° E.; desc. 50 ft. over NE. slope. |
| 45.10 | Drain, course E.; asc. 430 ft. over broken S. slope. |
| 80.00 | Point for the cor. of secs. 27, 28, 33 and 34.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>S28 \| S27<br>S33 \| S34<br>1957<br><br>Land, rolling and broken breaks of the San Juan River.<br>Soil, shallow sandy clay and exposed sandstone and shale.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 02' W., bet. secs. 27 and 28.<br><br>Note: The next ½ mile is inaccessible and was run by traverse; topography is approx. as scaled from U.S.G.S. topographic maps.<br><br>Asc. about 40 ft. over S. slope. |
| 7.50 | Base of abrupt ascent, bears N. 10° E. and S. 10° W.; asc. about 750 ft. over abrupt talus S. slope, high cliff and ledges facing S. |
| 28.30 | Top of W. end of Mikes Mesa, projects SW. about 2 chs. to end; desc. about 550 ft. over ledges on NW. slope, into Mikes Canyon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 27 and 28 falls on inaccessible spot on NW. slope of Mikes Mesa, where the cor. cannot be monumented. |
| 44.46 | Point selected for the witness ¼ sec. cor. of secs. 27 and 28.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>¼<br>S28 \| S27<br>W C<br>1957<br><br>Desc. 330 ft. over abrupt NW. slope. |
| 46.00 | Base of abrupt descent, bears NE. and SW.; desc. 220 ft. over rolling N. slope. |
| 74.40 | S. edge of small gulch, bears NW. and S. 80° E.; desc. 80 ft. over abrupt N. slope. |
| 80.00 | Point for the cor. of secs. 21, 22, 27 and 28. |

| Chains | |
|---|---|
| | Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>S21 \| S22<br>S28 \| S27<br>1957 |
| | Land, rolling and broken.<br>Soil, sandy clay and exposed shale and sandstone.<br>Timber, thinly scattered juniper. |
| | N. 0° 02' W., bet. secs. 21 and 22. |
| | Through thinly scattered timber; desc. abruptly 60 ft. over N. slope. |
| 1.30 | Wash, in bottom of gulch, 10 lks. wide, 3 ft. deep, drains N. 30° W.; asc. 120 ft. over steep SW. slope. |
| 11.40 | Spur, slopes N. 30° W.; desc. 210 ft. over NW. slope. |
| 24.70 | Wash, in bottom of Mikes Canyon, 30 lks. wide, 5 ft. deep, course S. 60° W.; asc. 390 ft. over steep SE. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 21 and 22. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>¼<br>S21 \| S22<br>1957 |
| | Asc. 60 ft. over SE. slope. |
| 45.10 | Spur, slopes SW.; desc. 170 ft. along W. slope. |
| 77.50 | Wash, 20 lks. wide, 4 ft. deep, course SW. about 3 chs. to junction with wash from N. |
| 80.00 | Point for the cor. of secs. 15, 16, 21 and 22.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | T40S R13E<br>S16 \| S15<br>S21 \| S22<br>1957 |
| | Land, rolling bottom of Mikes Canyon.<br>Soil, sandy clay and exposed shale.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 02' W., bet. secs. 15 and 16. |
| | Note: The following mile was surveyed by triangulation and the topography was scaled from U.S.G.S. topographic maps. |
| 4.60 | Wash, 10 lks. wide, 10 ft. deep, course S. 10° W.; asc. about 1500 ft. over high ledges on W. slope to W. rim of Mikes Canyon. |
| 40.00 | Point for the ¼ sec. cor. of secs. 15 and 16 falls on inaccessible spot on canyon wall, cor. not monumented. |
| 67.50 | Draw, drains SW. |

| Chains | |
|---|---|
| 80.00 | Point for the cor. of secs. 9, 10, 15 and 16 falls on inaccessible ledges facing S., where the cor. cannot be monumented.<br><br>Land, broken W. wall of Mikes Canyon.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered juniper. |
| | N. 0° 02' W., bet. secs. 9 and 10.<br><br>Through thinly scattered scrub juniper. |
| 1.20 | W. rim of Mikes Canyon, a ledge, 50 ft. high, bears N. 80° E. and W. about 15 chs.; thence SW.; asc. 10 ft. over S. slope. End of triangulation. |
| 2.10 | Point selected for the witness cor. of secs. 9, 10, 15 and 16.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>S 9 \| S10<br>S16 \| S15<br>W C<br>1957 |
| | Asc. 90 ft. along W. slope. |
| 36.80 | Spur, slopes SW. |
| 40.00 | Point for the ¼ sec. cor. of secs. 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 2 ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>¼<br>S 9 \| S10<br>1957 |
| | Desc. 110 ft. over ledgy NW. slope. |
| 80.00 | Point for the cor. of secs. 3, 4, 9 and 10.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>S 4 \| S 3<br>S 9 \| S10<br>1957 |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered scrub juniper. |
| | N. 0° 01' E., bet. secs. 3 and 4.<br><br>Through thinly scattered scrub timber; asc. 10 ft. along W. slope. |
| 7.80 | Spur, slopes N. 70° W.; desc. 150 ft. over N. slope. |

Portion of the Subdivision, T. 40 S., R. 13 E.

| Chains | |
|---|---|
| 29.40 | E. rim of Castle Creek Canyon, a ledge 30 ft. high, bears E. and W. irregularly; desc. 240 ft. over ledges on N. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 3 and 4.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>¼<br>S 4 \| S 3<br>1957<br><br>Desc. 130 ft. over ledgy N. slope. |
| 67.90 | Wash, 30 lks. wide, 5 ft. deep, course N. 80° W.; asc. 60 ft. over ledgy S. slope. |
| 80.16 | The cor. of secs. 3, 4, 33 and 34.<br><br>Land, broken breaks of Castle Creek Canyon.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township.<br><br>S. 0° 01' E., bet. secs. 2 and 3.<br><br>Through thinly scattered scrub timber; asc. 370 ft. over ledges on NW. slope. |
| 27.60 | E. rim of Castle Creek Canyon, a ledge 20 ft. high, bears N. 30° E. and SW.; asc. 90 ft. over ledgy NW. slope. |
| 40.11 | Point for the ¼ sec. cor. of secs. 2 and 3.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>¼<br>S 3 \| S 2<br>1957<br><br>Asc. 30 ft. over N. slope. |
| 46.10 | Spur, slopes S. 30° W.; desc. 160 ft. over SE. slope. |
| 66.80 | W. rim of Canyon, a ledge 20 ft. high, bears N. 30° E. and S. irregularly; desc. 30 ft. along steep E. slope. |
| 80.11 | Point for the cor. of secs. 2, 3, 10 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>S 3 \| S 2<br>S10 \| S11<br>1957 |

| Chains | |
|---|---|
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | N. 89° 58' E., bet. secs. 2 and 11 on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12 on the E. bdy. and the cor. of secs. 3, 4, 9 and 10, as specified in the special instructions.<br><br>Note: The next mile was inaccessible and was surveyed by triangulation; topography was scaled from U.S.G.S. topographic maps.<br><br>Desc. about 950 ft. over ledges on SE. slope. |
| 16.00 | Wash, drains S. 25° E.; continue over S. slope. |
| 33.20 | Wash, in bottom of Canyon, 30 lks. wide, 5 ft. deep, course SW.; asc. 450 ft. over ledges facing W. |
| 40.00 | True point for the ¼ sec. cor. of secs 2 and 11 falls on face of steep sandstone surface sloping W., where the cor. cannot be perpetuated. |
| 45.22 | Point selected for the witness ¼ sec. cor. of secs. 2 and 11.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>W ¼ S 2<br>C S11<br>1957<br><br>Asc. about 400 ft. over ledges on W. slope. |
| 61.10 | High sandstone spur, projects NE.; desc. about 300 ft. over ledges on E. slope. |
| 68.20 | Top of abrupt descent, bears N. 80° E. and S. 10° W.; desc. 20 ft. along S. slope. |
| 77.80 | Spur, projects SE. about 4 chs. |
| 80.00 | Point for the cor. of secs. 1, 2, 11 and 12. End of triangulation.<br><br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br><br>T40S R13E<br>S 2 \| S 1<br>S11 \| S12<br>1957<br><br>Land, broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |
| | N. 0° 01' W., bet. secs. 1 and 2.<br><br>Through thinly scattered scrub timber; asc. 40 ft. over SE. slope. |
| 8.70 | Base of steep ascent, bears N. 10° E. and S. 20° W.; asc. 150 ft. over ledges facing SE. |

Portion of the Subdivision, T. 40 S., R. 13 E.

| Chains | |
|---|---|
| 21.30 | High sandstone spur, projects SW.; desc. 150 ft. over ledges along W. slope. |
| 33.10 | Spur, slopes sharply N. 30° W.; desc. 150 ft. over abrupt N. slope. |
| 37.64 | Point selected for the witness ¼ sec. cor. of secs. 1 and 2. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | W C<br>T40S R13E<br>¼<br>S 2 \| S 1<br>1957 |
| | Desc. 260 ft. over ledges on broken NW. slope. |
| 40.00 | True point for the ¼ sec. cor. of secs. 1 and 2 falls on steep sandstone surface facing N., where the cor. cannot be perpetuated. |
| 42.00 | Wash, drains NW. |
| 54.30 | Wash, in bottom of Canyon, 30 lks. wide, 4 ft. deep, course SW.; asc. 350 ft. over ledges on SE. slope. |
| 63.10 | Asc. over ledge about 60 ft. high, bears N. 60° E. and SW.; asc. 150 ft. over SE. slope of bench. |
| 69.00 | Top of ascent, slopes SE.; desc. 20 ft. along E. slope. |
| 79.98 | The cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township. |
| | Land, rough and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered scrub juniper. |
| | From the cor. of secs. 15, 16, 21 and 22. |
| | West, bet. secs. 16 and 21. |
| 0.10 | Wash, 20 lks. wide, 2 ft. deep, course SW. for about 2 chs. to junction with wash from the NE.; by triangulation asc. about 1000 ft. over ledges on SE. slope. |
| 6.50 | Wash, drains SE. |
| 32.50 | Top of high sandstone knob; desc. 10 ft. along broken S. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 21. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>¼ S16 / S21<br>1957 |
| | By triangulation; asc. about 200 ft. over high sandstone spurs, putting S., to W. rim of Mikes Canyon. |
| 51.50 | W. rim of Mikes Canyon, a ledge 50 ft. high, bears N. 60° E. and SW.; asc. 50 ft. over E. slope. End of triangulation. |
| 64.80 | Ridge, bears NE. and S. 60° W.; desc. 40 ft. over NW. slope. |

| Chains | |
|---|---|
| 72.70 | Small wash, course SW.; asc. 20 ft. over SE. slope. |
| 80.00 | Point for the cor. of secs. 16, 17, 20 and 21. |
| cap | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R13E<br>S17 \| S16<br>S20 \| S21<br>1957 |
| | Land, rolling to broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered juniper. |
| | N. 0° 03' W., bet. secs. 16 and 17. |
| | Over rolling land, through thinly scattered scrub juniper; asc. 10 ft. over SE. slope. |
| 2.80 | Spur, slopes SW.; desc. 80 ft. over NW. slope. |
| 40.00 | Point for the ¼ sec. cor. of secs. 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.<br>T40S R13E<br>¼<br>S17 \| S16<br>1957 |
| | Asc. 10 ft. along W. slope. |
| 54.20 | Wash, 20 lks. wide, 6 ft. deep, course S. 20° W.; asc. 110 ft. over rolling S. slope. |
| 80.00 | Point for the cor. of secs. 8, 9, 16 and 17. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R13E<br>S 8 \| S 9<br>S17 \| S16<br>1957 |
| | Land, rolling.<br>Soil, shallow sand and exposed sandstone.<br>Timber, scattered scrub juniper. |
| | From the true point for the cor. of secs. 9, 10, 15 and 16. |
| | N. 89° 48' W., bet. secs. 9 and 16.. |
| | Along W. rim of Mikes Canyon; asc. along S. slope. |
| 15.60 | W. rim of Mikes Canyon, a ledge 50 ft. high, bears E. irregularly and S. 80° W.; asc. 50 ft. along S. slope. |
| 39.97 | Point for the ¼ sec. cor. of secs. 9 and 16. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd. |

| Chains | |
|---|---|
| | T40S R13E<br>¼ S 9<br>S16<br>1957 |
| 40.20 | Spur, slopes SW.; desc. 60 ft. over NW. slope. |
| 51.60 | E. edge of gulch, bears N. 20° E. and S. 20° W.; desc. 140 ft. over W. slope. |
| 64.60 | Wash, in bottom of gulch, 30 lks. wide, 4 ft. deep, course S. 10° W.; asc. 80 ft. over E. slope. |
| 68.60 | W. edge of gulch, bears N. 00° E. and S. 10° W.; desc. along S. slope. |
| 79.94 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, rolling and broken.<br>Soil, shallow sand and exposed sandstone.<br>Timber, thinly scattered juniper. |
| | Dependent Resurvey of a portion of the Subdivision, T. 40 S., R. 13 E. |
| | Reestablishment of the survey executed by R.C. Yundt and E.S.C. Smith in 1928 |
| | From the standard cor. of secs. 32 and 33 on the S. bdy. of the township, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. |
| | N. 0° 03' W., bet. secs. 32 and 33. |
| | Through dense willows, over nearly level land. |
| 5.60 | Mean high water mark on the left bank of the San Juan River. |
| | The meander cor. of secs. 32 and 33 on the left bank of the river, monumented by an iron post, 1 in. in diam., set, mkd. and witnessed as described in the official record. |
| | Continue across San Juan River. |
| 13.29 | Original point for the meander cor. of secs. 32 and 33 on the right bank of the San Juan River. This point now falls in the San Juan River. |
| | Continue across the San Juan River with original survey. |
| 13.65 | Present mean high water mark on the right bank of the San Juan River, high sand bank, where the cor. cannot be perpetuated. |
| | Asc. 10 ft. over S. slope. |
| 13.76 | Point selected for the witness meander cor. of secs. 32 and 33 on the right bank of the river. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>S32 \| S33<br>WMC<br>1957 |
| | Asc. 110 ft. over ledges on W. slope. |

| Chains | |
|---|---|
| 39.10 | High rocky point, about 60 ft., projects W. about 1 ch.; desc. 50 ft. over NW. slope. |
| 39.95 | Point selected for the witness ¼ sec. cor. of secs. 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd. |
| | W C<br>T40S R13E<br>¼<br>S32 \| S33<br>1957 |
| 40.00 | True point for the ¼ sec. cor. of secs. 32 and 33 falls on face of large rock, where the cor. cannot be monumented. |
| | Desc. 30 ft. over NW. slope. |
| 40.90 | Wash, in bottom of Mikes Canyon, 50 lks. wide, 3 ft. deep, course S. 30° W.; asc. 20 ft. along bottom of Mikes Canyon. |
| 42.50 | Jeep road, bears N. 20° E. and SW.; desc. 10 ft. |
| 46.40 | Recross road, bears N. 10° W. and S. 10° E.; asc. 10 ft. along bottom of canyon. |
| 49.10 | Recross wash, in bottom of Mikes Canyon; drains S. 10° E.; asc. 10 ft. along bottom of canyon. |
| 55.40 | Recross road, bears N. 70° E. and SW. |
| 56.40 | Recross wash, in bottom of Mikes Canyon; drains W., 2 chs. thence southerly; asc. 160 ft. over rolling SE. slope. |
| 80.00 | Point for the cor. of secs. 28, 29, 32 and 33. |
| | Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. |
| | T40S R13E<br>S29 \| S28<br>S32 \| S33<br>1957 |
| | Land, rolling bottoms in Mikes Canyon and the San Juan River.<br>Soil, shallow sand and exposed shale.<br>Timber, thinly scattered scrub juniper.<br>Undergrowth, thick willows on the river bottom. |
| | From the standard cor. of secs. 31 and 32 on the S. bdy. of the township, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. |
| | N. 0° 03' W., bet. secs. 31 and 32. |
| | Asc. 1090 ft. over steep talus slope and high sandstone ledges, facing S. |
| 40.00 | True point for the ¼ sec. cor. of secs. 31 and 32 falls on face of ledges facing S., where the cor. cannot be monumented. |

| Chains | |
|---|---|
| 43.00 | Asc. over ledge about 50 ft. high, bears N. 80° E. and S. 80° W. |
| 43.50 | Point selected for the witness ¼ sec. cor. of secs. 31 and 32.<br>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.<br>T40S R13E<br>¼<br>S31 \| S32<br>W C<br>1957<br>Asc. 210 ft. over ledges facing S. |
| 57.00 | Spur, projects S. 30° W.; desc. 120 ft. over NW. slope. |
| 75.55 | Point selected for the witness cor. of secs. 29, 30, 31 and 32.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.<br>T40S R13E<br>W C<br>S30 \| S29<br>S31 \| S32<br>1957<br>Desc. 400 ft. over high ledges facing NW. |
| 80.00 | True point for the cor. of secs. 29, 30, 31 and 32 falls on inaccessible ledges, where the cor. cannot be monumented.<br>Land, rough and broken breaks of the San Juan River.<br>Soil, shallow sand and considerable exposed sandstone.<br>Timber, thinly scattered scrub juniper and pinion. |
| | From the cor. of secs. 28, 29, 32 and 33, heretofore described.<br>S. 89° 58' W., bet. secs. 29 and 32.<br>Asc. 110 ft. over SE. slope, through thinly scattered scrub juniper. |
| 24.20 | Base of abrupt ascent, bears N. 10° E. and S. 20° W.; asc. 280 ft. over abrupt E. slope. |
| 40.02 | Point for the ¼ sec. cor. of secs. 29 and 32.<br>Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.<br>T40S R13E<br>¼ S29 / S32<br>1957<br>Asc. 600 ft. over abrupt talus slope and high cliff, facing E. |
| 55.50 | W. rim of Mikes Canyon, a cliff about 400 ft. high, bears N. 10° E. and S. 20° W.; asc. 40 ft. over SE. slope. |
| 57.50 | Spur, slopes S. 20° W.; desc. 180 ft. over NW. slope. |

| Chains | |
|---|---|
| 78.70 | Rimrock ledge about 200 ft. high, bears N. 20° E. and S. 30° W.; desc. 400 ft. over ledges on NW. slope. |
| 80.04 | True point for the cor. of secs. 29, 30, 31 and 32, heretofore described. |
| | Land, broken breaks of Mikes Canyon and the San Juan River.<br>Soil, sand and exposed sandstone.<br>Timber, thinly scattered scrub juniper. |

From the true point for the meander cor. of secs. 32 and 33 on the right bank of the San Juan River.

Thence downstream with the meanders of the right bank of the river in sec. 32.

S. 36° 12' W., 10.04 chs.

S. 56° 05' W., 7.00 chs.

S. 82° 36' W., 13.20 chs. The meander cor. of sec. 32 on the S. bdy., an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.

Land, level.
Soil, sand.
Timber, thick willows.

## GENERAL DESCRIPTION

With the exception of a small area of rolling land in the NW. portion of the township, the land of T. 40 S., R. 13 E. is broken canyon land, composed of finger mesas and deep canyon with vertical walls 400 ft. high. The elevation of the township ranges from 3600 ft. above sea level, along the right bank of the San Juan River near the SW. cor. of sec. 33 to 5796 ft. above sea level on a finger mesa near the ¼ sec. cor. of secs. 2 and 3.

The soil of T. 40 S., R. 13 E. is principally a residual sandy silt, varying in depth and quality throughout the township. The soil in the NW. portion of the township is well developed and exhibits a well defined 'A' horizon. The soil along the stream valley of the San Juan River in the SE. portion of sec. 25 and the N. ½ of sec. 36 is a river alluvium of fair quality. There are no other river deposits in the township; the right bank of the San Juan River is a sandstone ledge, approximately 400 ft. high through the rest of the township. Over the remainder of the township the soil is shallow and found only in small areas, with large areas of the land being boulder strewn and exposed sandstone. Groves of cottonwoods and willows grow along the right bank of the river while the rest of the township has a scattered growth of dwarf juniper and pinion, with an undergrowth of black brush, Brigham tea, grama grass, bitter brush and weeds.

The main drainage of the township is SW. The San Juan River, a meanderable stream under surveying rules, enters the township at the E. boundary near the ¼ sec. cor. of secs. 31 and 36, meandering W., crossing and recrossing the S. bdy. to a point near the SE. cor. of sec. 32, where it leaves the township, draining SW. It is probable that there is some navigation on the river during high water season. Mikes Canyon, a deep gorge, enters the township at the E. bdy., 27 chs. W. of the SE. cor. of sec. 1, draining SW. to a junction with the San Juan River, at a point 15 chs. N. of the SE. cor. of sec. 32.

Castle Creek, an intermittent stream, enters the township at the N. bdy., 5 chs. W. of the NW. cor. of sec. 3, draining SW. to leave the township at the W. bdy., near the NW. cor. of sec. 18. There are two good springs in sec. 2 and two in sec. 4. The springs in sec. 2 drain towards Mikes Canyon, while those in sec. 4 drain a short distance into Castle Creek. The remainder of the drainage system consists of small washes and short side canyons.

Development within the township at present consists of the jeep road and the two landing strips noted above, which were constructed in connection with the prospecting for uranium and related minerals along the lower reaches of Mikes Canyon. As yet there are no producing mines or patented claims within the township. The only utilization of the land is in grazing of cattle.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Lecel E. Bland | Principal Assistant |
| Paul D. Hanson | Chainman |
| Ortho J. Hatch | Flagman |
| Milton H. Riddle | Cornerman |

# ORIGINAL FIELD NOTES

## CERTIFICATE OF CADASTRAL ENGINEER

Donald A. Cannon, HEREBY CERTIFY upon honor that, IN
ce of special instructions bearing date of the 13th day of May, 1955
urveyed the north boundary and a portion of the subdivision, the dependent
vey of a portion of the east boundary and a portion of the subdivision and
anders of the right bank of the San Juan River through Sections 32 and 36
nship 40 South, Range 13 East

Salt Lake Meridian, in the State of Utah, which are
ted in the foregoing field notes as having been executed by me and under my direction; and that
vey has been made in strict conformity with said instructions, the Manual of Instructions for the
of the Public Lands of the United States, and in the specific manner described in the foregoing
es.

ry 10, 1958 — Donald A. Cannon
ake City, Utah — Cartographic Survey Aid

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* _____, *19*____

~~foregoing field notes of the survey of the north boundary~~

by

een critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## CERTIFICATE OF TRANSCRIPT

RTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
_____, is a true copy of the original field notes.

~~*Cadastral Engineering Staff Officer.*~~

NMENT PRINTING OFFICE 16—53565-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
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16—53565-2

# CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May, 1955 I have ~~surveyed~~ supervised the survey of the north boundary and a portion of the subdivision, the dependent resurvey of a portion of the east boundary and a portion of the subdivision and the meanders of the right bank of the San Juan River through Sections 32 and 36 of Township 40 South, Range 13 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed under my supervision ~~by me and under my direction~~; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

February 10, 1958
Salt Lake City, Utah

Vern E. Lane
Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

*Washington, D. C.,* SEP 30 1958, *19*

The foregoing field notes of the survey of the north boundary and a portion of the subdivision, the dependent resurvey of a portion of the east boundary and a portion of the subdivision and the meanders of the right bank of the San Juan River through Secs. 32 and 36 of T. 40 S., R. 13 E., SLM, Utah.

executed by Donald A. Cannon, under the supervision of Vern E. Lane

having been critically examined and found correct, are hereby approved.

*Cadastral Engineering Staff Officer.*

## ~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 40 S. R. 13 E., Salt Lake Mer., is a true copy of the original field notes.~~

~~*Cadastral Engineering Staff Officer.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53805-3